

# **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:**

July 28, 2021 Rensselaer, NY

# NYISO CEO/COO Report

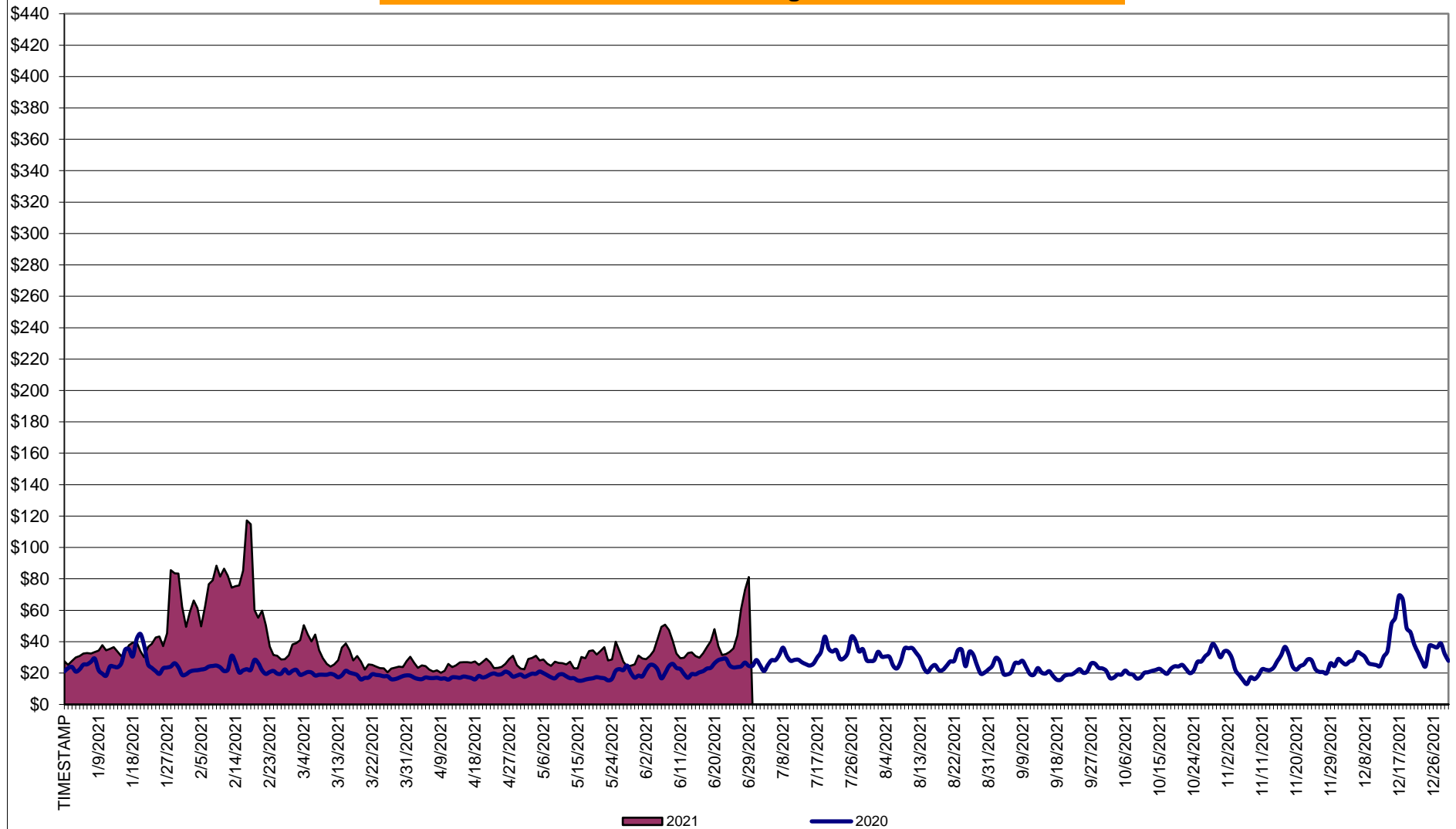
- **CEO Report**
- **COO Report**
  - Market Performance Highlights – For Information Only
  - Operations Performance Metrics Monthly Report

# Market Performance Highlights

## June 2021

- LBMP for June is \$39.37/MWh; higher than \$25.72/MWh in May 2021 and \$21.36/MWh in June 2020.
  - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are higher compared to May.
- June 2021 average year-to-date monthly cost of \$40.59/MWh is an 83% increase from \$22.21/MWh in June 2020.
- Average daily sendout is 458 GWh/day in June; higher than 365 GWh/day in May 2021 and 430 GWh/day in June 2020.
- Natural gas prices and distillate prices are higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.61/MMBtu, up from \$2.37/MMBtu in May.
  - Natural gas prices are up 81.2% year-over-year.
  - Jet Kerosene Gulf Coast was \$13.71/MMBtu, up from \$12.92/MMBtu in May.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$15.12/MMBtu, up from \$14.39/MMBtu in May.
  - Distillate prices are up 87.9% year-over-year.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.50)/MWh; lower than (\$0.19)/MWh in May.
    - Local Reliability Share is \$0.17/MWh, lower than \$0.22/MWh in May.
    - Statewide Share is (\$0.68)/MWh, lower than (\$0.41)/MWh in May.
  - TSA \$ per NYC MWh is \$0.90/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than May.

**Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\***  
**2020 Annual Average \$25.70/MWh**  
**June 2020 YTD Average \$22.21/MWh**  
**June 2021 YTD Average \$40.59/MWh**



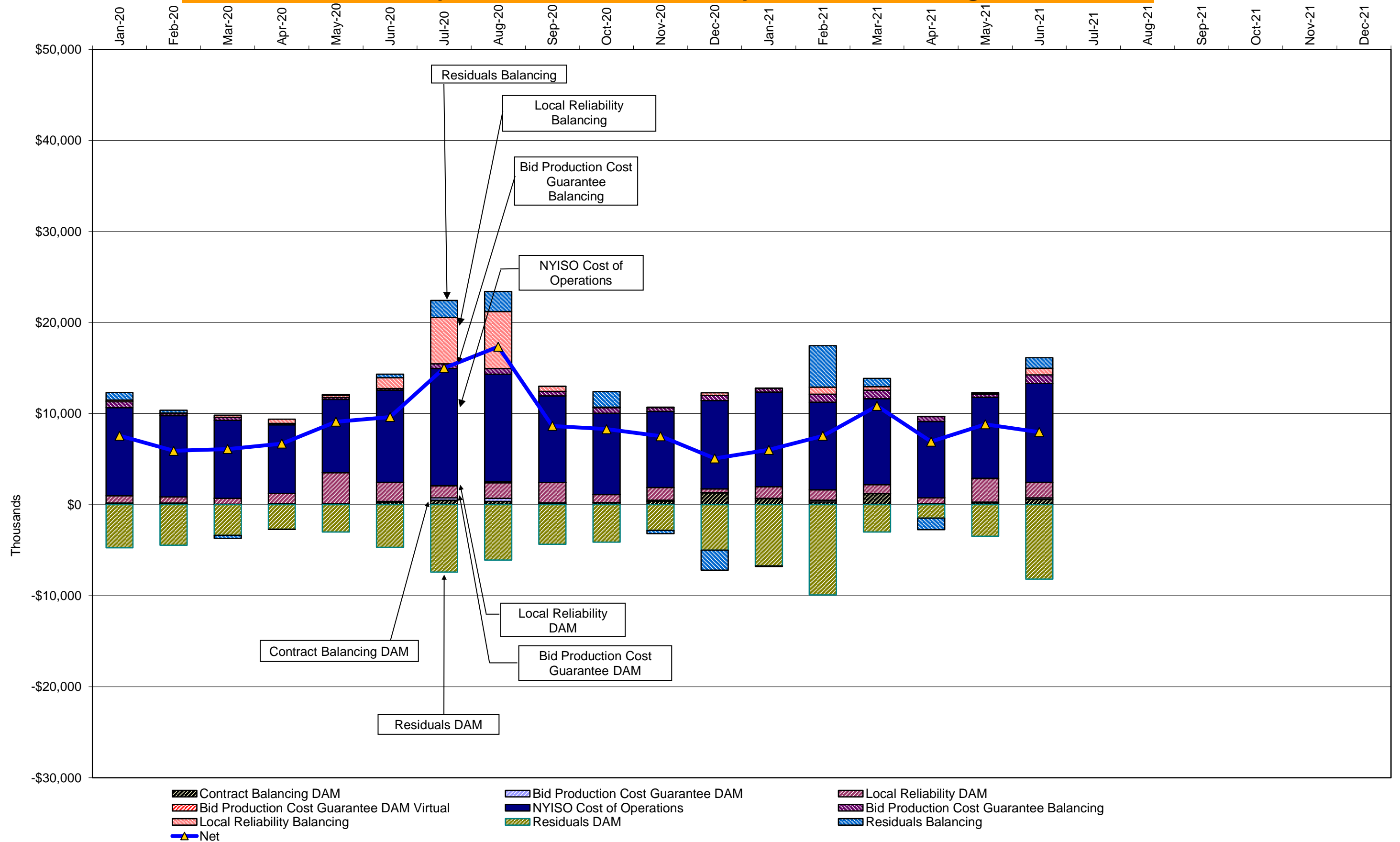
\* Excludes ICAP payments.

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

<b>2021</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	37.83	63.70	28.59	22.79	25.72	39.37						
NTAC	1.35	1.20	1.26	1.54	2.09	2.05						
Reserve	0.49	0.81	0.57	0.56	0.54	0.45						
Regulation	0.07	0.13	0.09	0.10	0.08	0.07						
NYISO Cost of Operations	0.74	0.74	0.74	0.74	0.76	0.76						
FERC Fee Recovery	0.08	0.09	0.09	0.11	0.10	0.08						
Uplift	(0.31)	(0.15)	0.11	(0.12)	(0.19)	(0.50)						
Uplift: Local Reliability Share	0.09	0.15	0.11	0.06	0.22	0.17						
Uplift: Statewide Share	(0.40)	(0.30)	0.00	(0.18)	(0.41)	(0.68)						
Voltage Support and Black Start	0.43	0.43	0.43	0.44	0.44	0.44						
<b>Avg Monthly Cost</b>	40.61	66.87	31.81	26.06	29.45	42.65						
 Avg YTD Cost	40.69	52.99	46.57	42.41	40.10	40.59						
 TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.52	0.90						
 <b>2020</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	24.77	21.11	17.11	15.77	16.14	21.36	28.86	26.13	20.52	20.90	22.57	33.70
NTAC	0.91	0.70	0.86	0.91	1.05	0.95	1.24	1.03	0.78	0.84	1.05	1.35
Reserve	0.46	0.43	0.47	0.50	0.53	0.45	0.39	0.39	0.42	0.61	0.51	0.49
Regulation	0.09	0.08	0.09	0.08	0.10	0.08	0.06	0.07	0.09	0.11	0.09	0.08
NYISO Cost of Operations	0.68	0.69	0.68	0.66	0.71	0.74	0.76	0.75	0.74	0.73	0.69	0.70
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.11	0.09	0.06	0.07	0.09	0.10	0.10	0.08
Uplift	(0.15)	(0.23)	(0.19)	(0.08)	0.09	(0.05)	0.07	0.17	(0.07)	(0.05)	(0.07)	(0.33)
Uplift: Local Reliability Share	0.07	0.06	0.07	0.14	0.32	0.24	0.38	0.50	0.22	0.08	0.12	0.05
Uplift: Statewide Share	(0.22)	(0.29)	(0.26)	(0.21)	(0.23)	(0.29)	(0.31)	(0.33)	(0.28)	(0.13)	(0.19)	(0.38)
Voltage Support and Black Start	0.44	0.44	0.44	0.43	0.45	0.45	0.46	0.46	0.45	0.45	0.44	0.45
<b>Avg Monthly Cost</b>	27.29	23.32	19.55	18.38	19.16	24.09	31.91	29.07	23.03	23.70	25.40	36.52
 Avg YTD Cost	27.29	25.40	23.48	22.38	21.82	22.21	24.11	24.88	24.69	24.62	24.68	25.70
 TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.04	0.18	0.54	0.00	0.00	0.00	0.00

\* Excludes ICAP payments.  
Market Mitigation and Analysis  
Prepared: 7/9/2021 4:14 PM

# NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through June 30, 2021



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>2021</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><u>Day Ahead Market MWh</u></b>	14,108,848	13,325,329	12,843,278	11,204,262	11,854,214	14,120,662						
DAM LSE Internal LBMP Energy Sales	60%	59%	56%	55%	56%	61%						
DAM External TC LBMP Energy Sales	5%	4%	3%	2%	2%	3%						
DAM Bilateral - Internal Bilaterals	31%	30%	32%	35%	35%	29%						
DAM Bilateral - Import/Non-LBMP Market Bilaterals	1%	4%	4%	5%	4%	4%						
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%						
DAM Bilateral - Wheel Through Bilaterals	2%	2%	3%	2%	2%	2%						
<b><u>Balancing Energy Market MWh</u></b>	29,179	-308,157	-70,279	30,603	-36,350	247,874						
Balancing Energy LSE Internal LBMP Energy Sales	-215%	-151%	-367%	-456%	-398%	53%						
Balancing Energy External TC LBMP Energy Sales	374%	59%	365%	578%	440%	60%						
Balancing Energy Bilateral - Internal Bilaterals	49%	4%	27%	34%	0%	-1%						
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%						
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	50%	5%	32%	34%	21%	5%						
Balancing Energy Bilateral - Wheel Through Bilaterals	-158%	-17%	-158%	-90%	-163%	-17%						
<b><u>Transactions Summary</u></b>												
LBMP	65%	62%	59%	57%	58%	65%						
Internal Bilaterals	31%	31%	33%	35%	35%	29%						
Import Bilaterals	1%	4%	4%	5%	4%	3%						
Export Bilaterals	2%	2%	2%	2%	2%	2%						
Wheels Through	2%	2%	2%	2%	2%	1%						
<b><u>Market Share of Total Load</u></b>												
Day Ahead Market	99.8%	102.4%	100.6%	99.7%	100.3%	98.3%						
Balancing Energy +	0.2%	-2.4%	-0.6%	0.3%	-0.3%	1.7%						
Total MWH	14,138,027	13,017,172	12,772,999	11,234,865	11,817,864	14,368,536						
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458						

<u>2020</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><u>Day Ahead Market MWh</u></b>	14,194,609	13,172,669	12,495,999	11,372,390	11,462,320	13,825,178	16,629,337	15,671,629	13,122,542	12,338,638	12,157,281	13,748,181
DAM LSE Internal LBMP Energy Sales	56%	56%	59%	54%	55%	58%	65%	63%	60%	56%	57%	59%
DAM External TC LBMP Energy Sales	6%	5%	5%	7%	4%	3%	2%	4%	4%	5%	5%	5%
DAM Bilateral - Internal Bilaterals	30%	30%	27%	30%	31%	29%	26%	27%	30%	32%	33%	31%
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	6%	6%	6%	5%	3%	3%	2%	3%	3%	2%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	1%	1%	2%	2%	2%	2%	2%	0%	2%
<b><u>Balancing Energy Market MWh</u></b>	-26,753	-142,168	144,076	22,599	-137,565	-180,149	403,914	212,307	-173,115	-89,451	-54,598	156,891
Balancing Energy LSE Internal LBMP Energy Sales	-1080%	-221%	-85%	-884%	-187%	-134%	85%	99%	-95%	-220%	-459%	-12%
Balancing Energy External TC LBMP Energy Sales	1156%	181%	240%	1233%	137%	99%	35%	43%	104%	187%	382%	107%
Balancing Energy Bilateral - Internal Bilaterals	62%	5%	12%	55%	12%	7%	2%	1%	0%	4%	3%	7%
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	9%	6%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	127%	16%	18%	92%	12%	5%	2%	4%	7%	17%	33%	11%
Balancing Energy Bilateral - Wheel Through Bilaterals	-365%	-81%	-85%	-396%	-74%	-77%	-24%	-46%	-116%	-107%	-69%	-19%
<b><u>Transactions Summary</u></b>												
LBMP	62%	62%	65%	61%	59%	62%	68%	67%	64%	61%	62%	64%
Internal Bilaterals	31%	31%	27%	30%	32%	30%	26%	27%	31%	32%	33%	31%
Import Bilaterals	5%	5%	6%	6%	6%	5%	3%	3%	2%	3%	3%	2%
Export Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%	2%
Wheels Through	0%	1%	0%	0%	0%	1%	1%	1%	1%	2%	0%	2%
<b><u>Market Share of Total Load</u></b>												
Day Ahead Market	100.2%	101.1%	98.9%	99.8%	101.2%	101.3%	97.6%	98.7%	101.3%	100.7%	100.5%	98.9%
Balancing Energy +	-0.2%	-1.1%	1.1%	0.2%	-1.2%	-1.3%	2.4%	1.3%	-1.3%	-0.7%	-0.5%	1.1%
Total MWH	14,167,856	13,030,501	12,640,075	11,394,989	11,324,755	13,645,029	17,033,251	15,883,935	12,949,426	12,249,187	12,102,682	13,905,071
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430	530	489	408	367	377	417

+ 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 2021 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 *	\$34.37	\$57.30	\$27.47	\$20.46	\$22.95	\$33.36						
Standard Deviation	\$14.58	\$24.48	\$8.23	\$4.58	\$6.28	\$15.88						
Load Weighted Price **	\$35.31	\$58.67	\$28.12	\$20.81	\$23.75	\$36.28						
<b><u>RTC LBMP</u></b>												
Price *	\$34.32	\$49.25	\$25.59	\$21.30	\$25.36	\$39.69						
Standard Deviation	\$20.93	\$23.34	\$12.67	\$7.91	\$11.17	\$34.08						
Load Weighted Price **	\$35.40	\$50.48	\$26.37	\$21.67	\$26.50	\$44.41						
<b><u>REAL TIME LBMP</u></b>												
Price *	\$34.59	\$48.22	\$28.06	\$21.10	\$24.62	\$36.58						
Standard Deviation	\$29.47	\$26.46	\$26.13	\$10.07	\$10.91	\$25.43						
Load Weighted Price **	\$35.89	\$49.57	\$29.33	\$21.55	\$25.78	\$40.76						
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458						

### **NYISO Markets 2020 Energy Statistics**

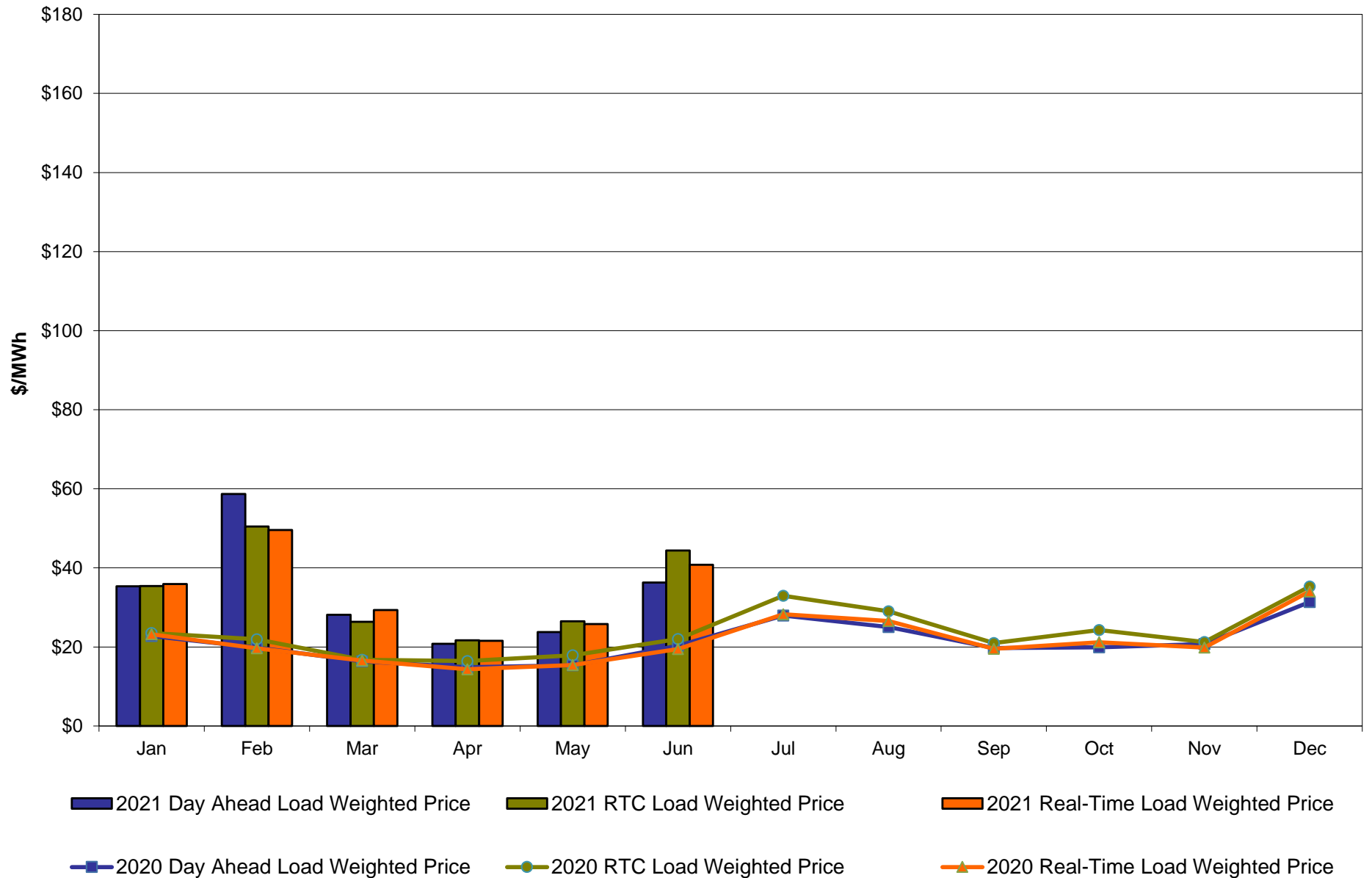
	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>DAY AHEAD LBMP</u></b>												
Price *	\$22.11	\$19.48	\$16.07	\$14.67	\$14.97	\$19.15	\$26.30	\$23.61	\$18.88	\$19.40	\$20.07	\$30.45
Standard Deviation	\$7.43	\$4.45	\$3.21	\$2.71	\$3.55	\$6.40	\$10.45	\$8.56	\$5.41	\$6.36	\$7.15	\$12.35
Load Weighted Price **	\$22.77	\$19.84	\$16.36	\$14.86	\$15.37	\$20.28	\$27.94	\$25.01	\$19.72	\$19.91	\$20.75	\$31.36
<b><u>RTC LBMP</u></b>												
Price *	\$22.86	\$21.48	\$16.48	\$16.23	\$17.46	\$20.84	\$30.70	\$26.86	\$19.90	\$23.35	\$20.39	\$34.01
Standard Deviation	\$9.33	\$53.30	\$4.84	\$5.17	\$8.61	\$11.26	\$17.92	\$17.17	\$11.37	\$14.44	\$14.19	\$25.41
Load Weighted Price **	\$23.50	\$21.94	\$16.74	\$16.44	\$17.89	\$22.01	\$32.92	\$29.01	\$20.99	\$24.25	\$21.23	\$35.28
<b><u>REAL TIME LBMP</u></b>												
Price *	\$22.53	\$19.29	\$16.24	\$14.14	\$14.90	\$18.35	\$26.56	\$24.68	\$18.63	\$20.44	\$18.96	\$32.72
Standard Deviation	\$11.90	\$8.68	\$7.48	\$6.98	\$8.35	\$9.33	\$16.45	\$13.95	\$7.15	\$12.01	\$12.66	\$24.29
Load Weighted Price **	\$23.20	\$19.68	\$16.58	\$14.35	\$15.42	\$19.46	\$28.27	\$26.53	\$19.54	\$21.15	\$19.84	\$34.04
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430	530	489	408	367	377	417

\* Average zonal load weighted prices.

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



# **NYISO Monthly Average Internal LBMPs 2020 - 2021**

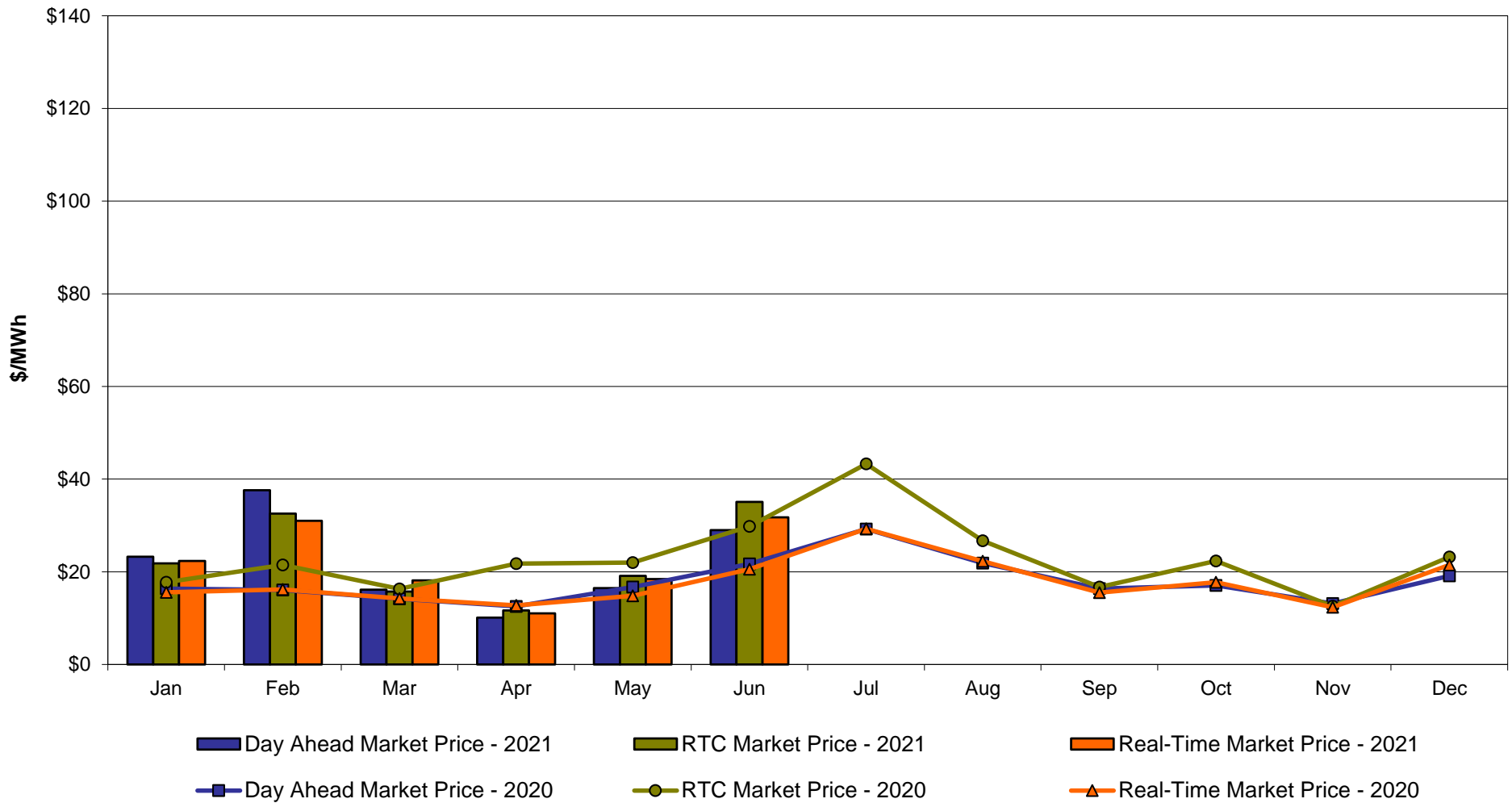


**June 2021 Zonal LBMP Statistics for NYISO (\$/MWh)**

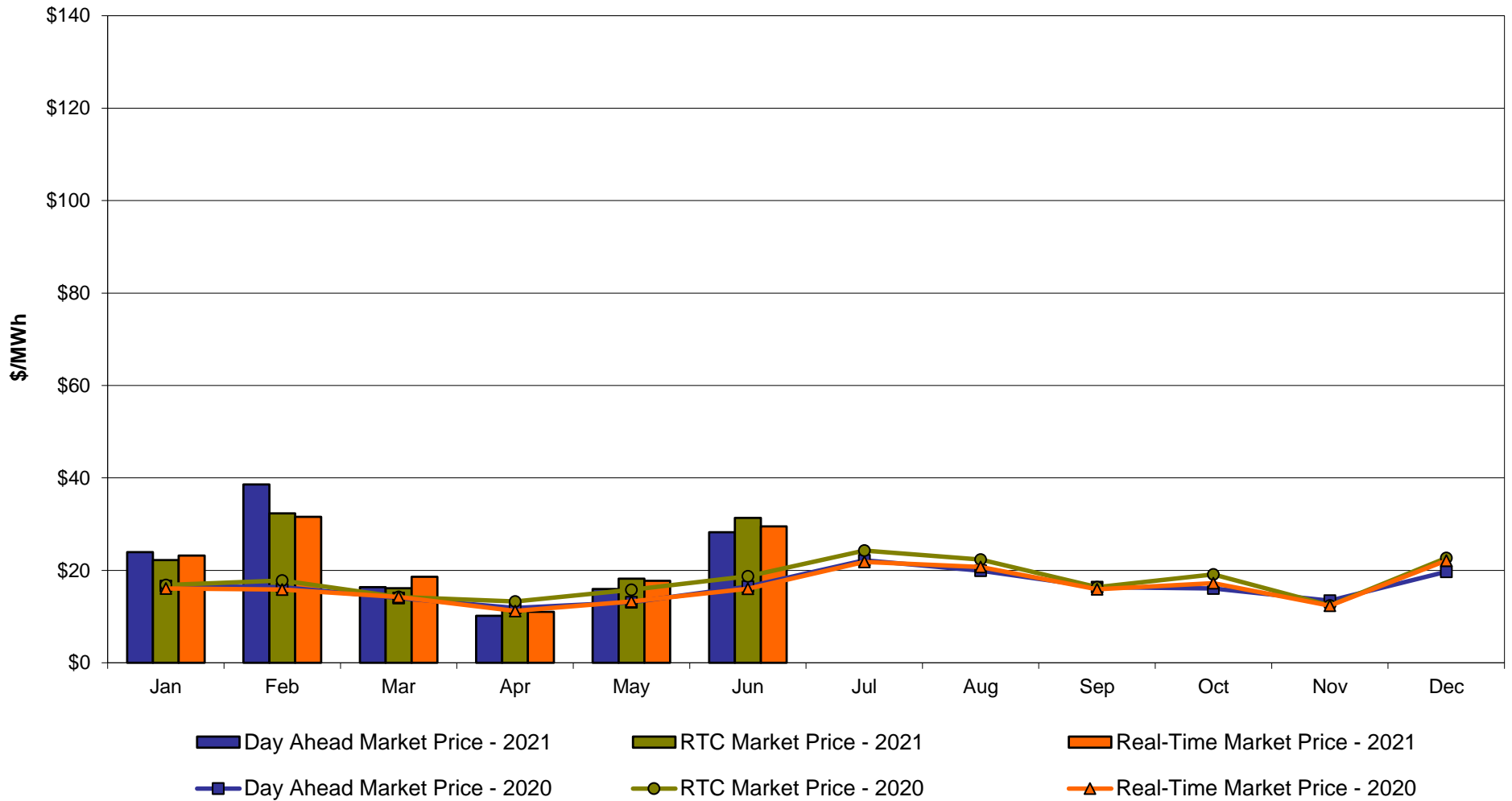
	<b><u>WEST</u></b> <b><u>Zone A</u></b>	<b><u>GENESEE</u></b> <b><u>Zone B</u></b>	<b><u>NORTH</u></b> <b><u>Zone D</u></b>	<b><u>CENTRAL</u></b> <b><u>Zone C</u></b>	<b><u>MOHAWK</u></b> <b><u>VALLEY</u></b> <b><u>Zone E</u></b>	<b><u>CAPITAL</u></b> <b><u>Zone F</u></b>	<b><u>HUDSON</u></b> <b><u>VALLEY</u></b> <b><u>Zone G</u></b>	<b><u>MILLWOOD</u></b> <b><u>Zone H</u></b>	<b><u>DUNWOODIE</u></b> <b><u>Zone I</u></b>	<b><u>NEW YORK</u></b> <b><u>CITY</u></b> <b><u>Zone J</u></b>	<b><u>LONG</u></b> <b><u>ISLAND</u></b> <b><u>Zone K</u></b>
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	28.97	27.47	15.65	28.27	27.88	36.38	34.04	34.47	34.58	34.84	41.23
Standard Deviation	14.54	12.68	12.02	13.28	13.71	15.97	14.58	15.05	15.09	15.16	25.54
<b><u>RTC LBMP</u></b>											
Unweighted Price *	35.11	30.22	23.23	31.34	31.44	41.17	37.03	40.72	39.84	40.03	56.47
Standard Deviation	46.80	25.88	29.21	27.17	27.03	31.42	26.84	41.86	33.50	32.91	95.40
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	31.74	28.79	20.60	29.52	29.79	39.74	35.93	39.20	38.35	38.71	45.30
Standard Deviation	32.15	20.18	32.67	20.76	21.29	28.26	22.46	36.58	29.09	29.12	37.37
	<b><u>ONTARIO</u></b> <b><u>IESO</u></b>	<b><u>HYDRO</u></b> <b><u>QUEBEC</u></b> <b><u>(Wheel)</u></b>	<b><u>HYDRO</u></b> <b><u>QUEBEC</u></b> <b><u>(Import/Export)</u></b>	<b><u>PJM</u></b>	<b><u>NEW</u></b> <b><u>ENGLAND</u></b>	<b><u>CROSS</u></b> <b><u>SOUND</u></b> <b><u>CABLE</u></b> <b><u>Controllable</u></b> <b><u>Line</u></b>	<b><u>NORTHPORT-</u></b> <b><u>NORWALK</u></b> <b><u>Controllable</u></b> <b><u>Line</u></b>	<b><u>NEPTUNE</u></b> <b><u>Controllable</u></b> <b><u>Line</u></b>	<b><u>LINDEN VFT</u></b> <b><u>Controllable</u></b> <b><u>Line</u></b>	<b><u>HUDSON</u></b> <b><u>Controllable</u></b> <b><u>Line</u></b>	<b><u>Dennison</u></b> <b><u>Controllable</u></b> <b><u>Line</u></b>
	<b><u>Zone O</u></b>	<b><u>Zone M</u></b>	<b><u>Zone M</u></b>	<b><u>Zone P</u></b>	<b><u>Zone N</u></b>						
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	25.94	23.29	23.29	30.99	34.93	42.48	35.85	37.78	33.14	34.53	15.96
Standard Deviation	11.85	11.86	11.86	13.29	16.19	29.52	14.12	15.94	11.27	15.00	11.44
<b><u>RTC LBMP</u></b>											
Unweighted Price *	27.85	24.92	24.92	34.09	38.44	56.65	53.15	53.79	38.52	39.28	25.81
Standard Deviation	21.51	26.08	26.08	25.96	29.74	95.86	93.61	94.01	30.78	31.98	32.72
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	27.24	23.11	23.11	32.71	36.93	45.50	36.92	43.15	37.59	38.08	22.77
Standard Deviation	17.77	27.68	27.68	20.44	24.54	38.15	54.82	34.75	27.51	28.49	36.61

\* Straight LBMP averages

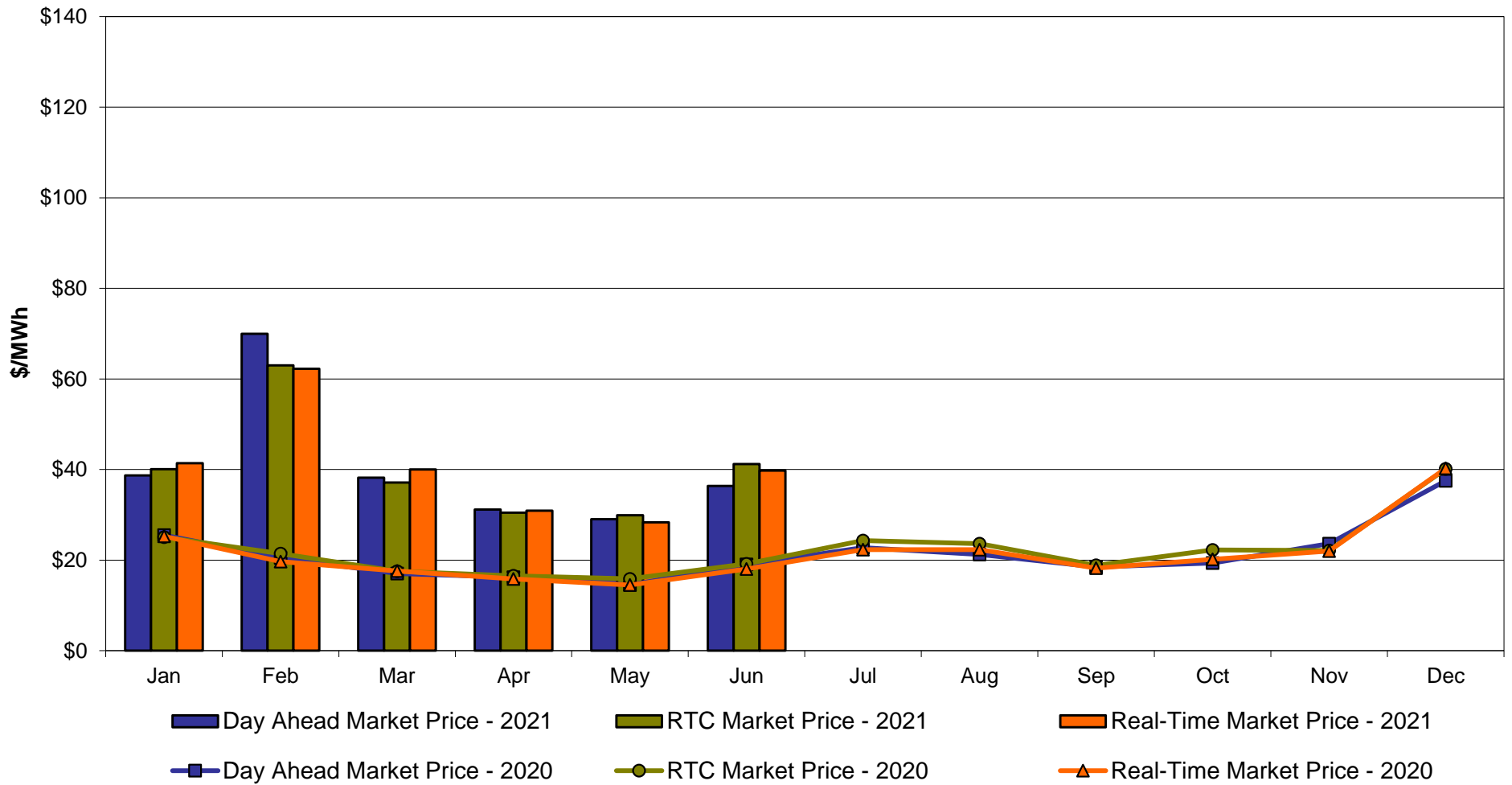
# West Zone A Monthly Average LBMP Prices 2020 - 2021



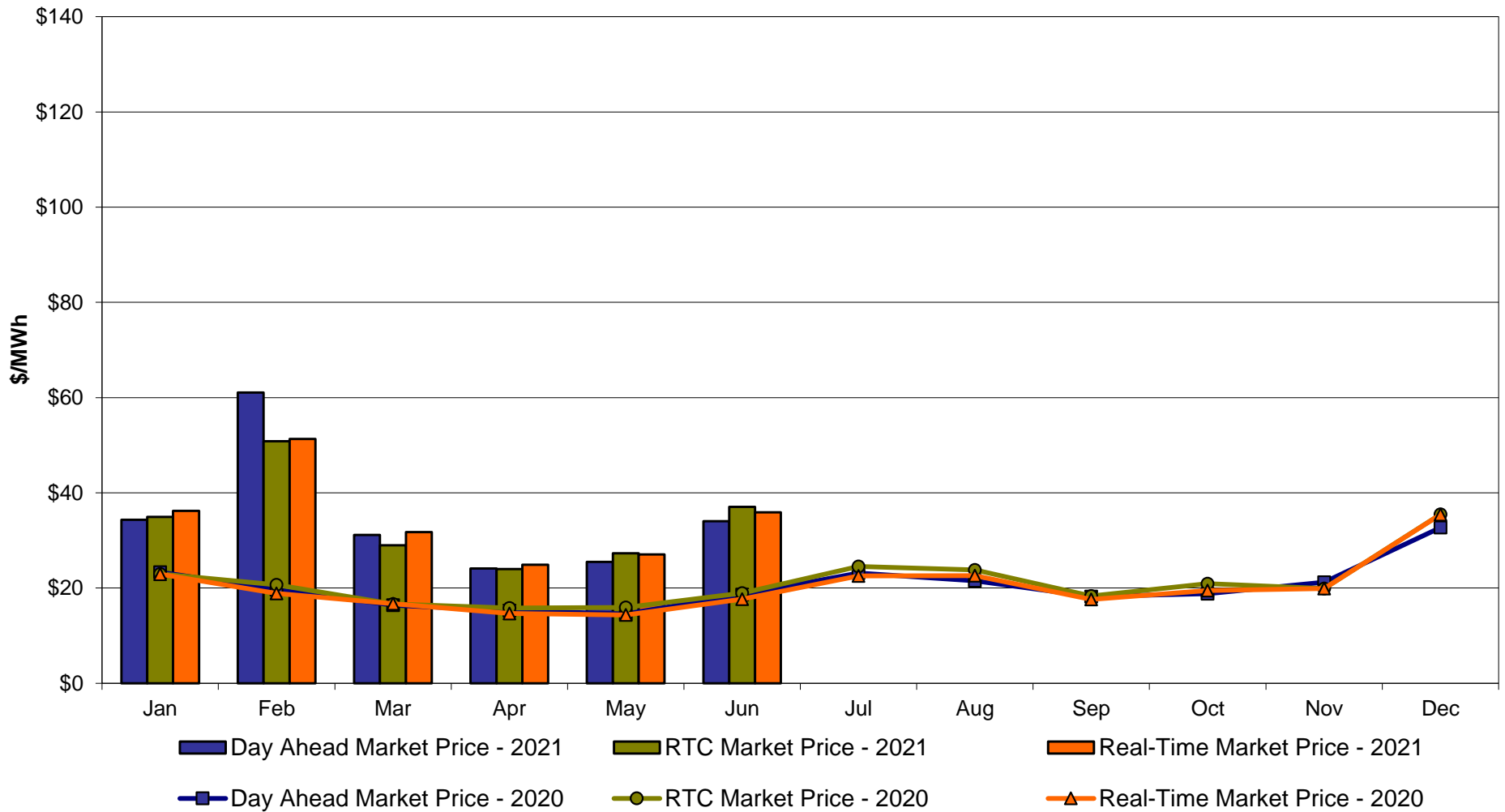
# Central Zone C Monthly Average LBMP Prices 2020 - 2021



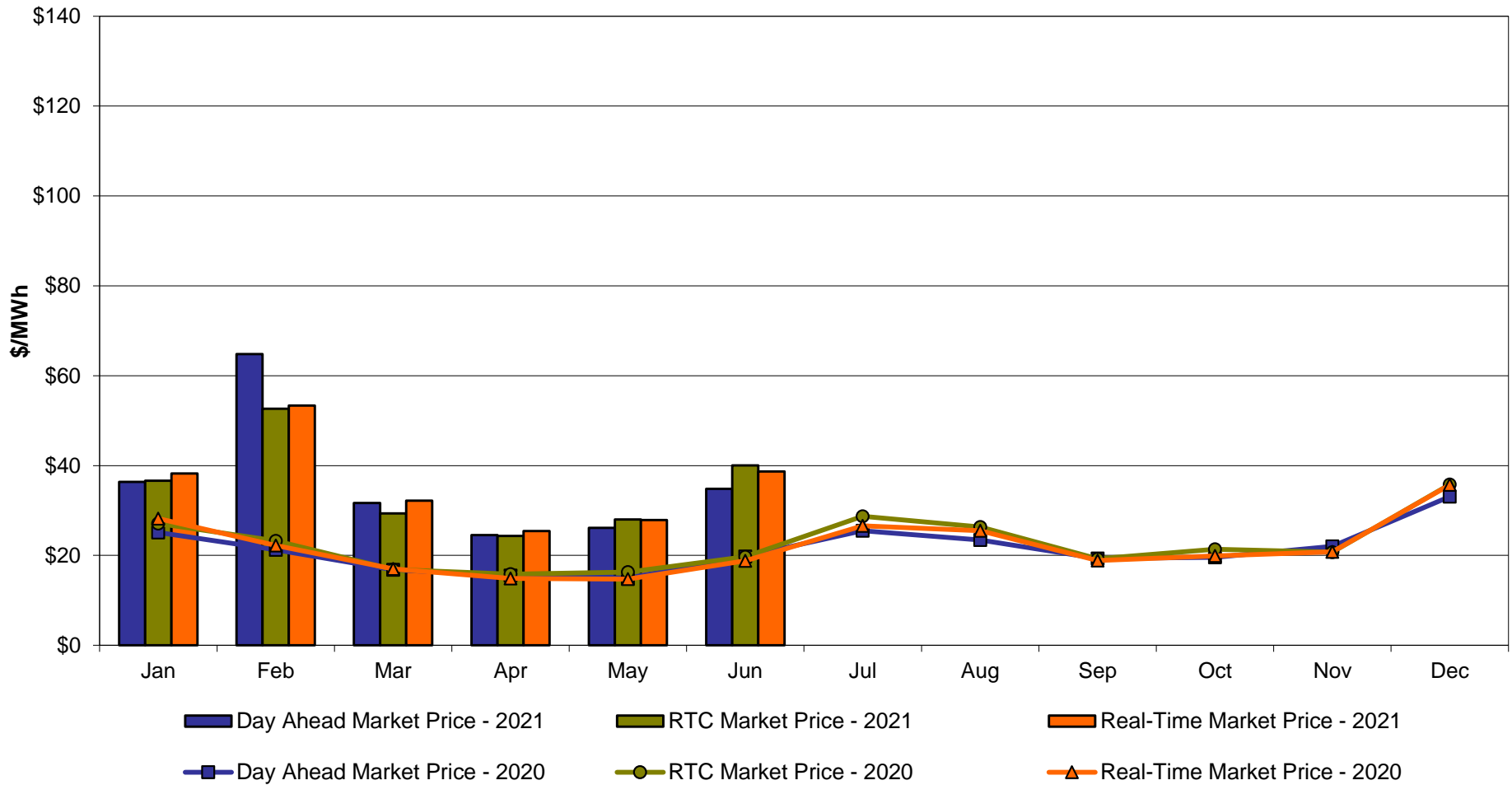
# **Capital Zone F** **Monthly Average LBMP Prices 2020 - 2021**



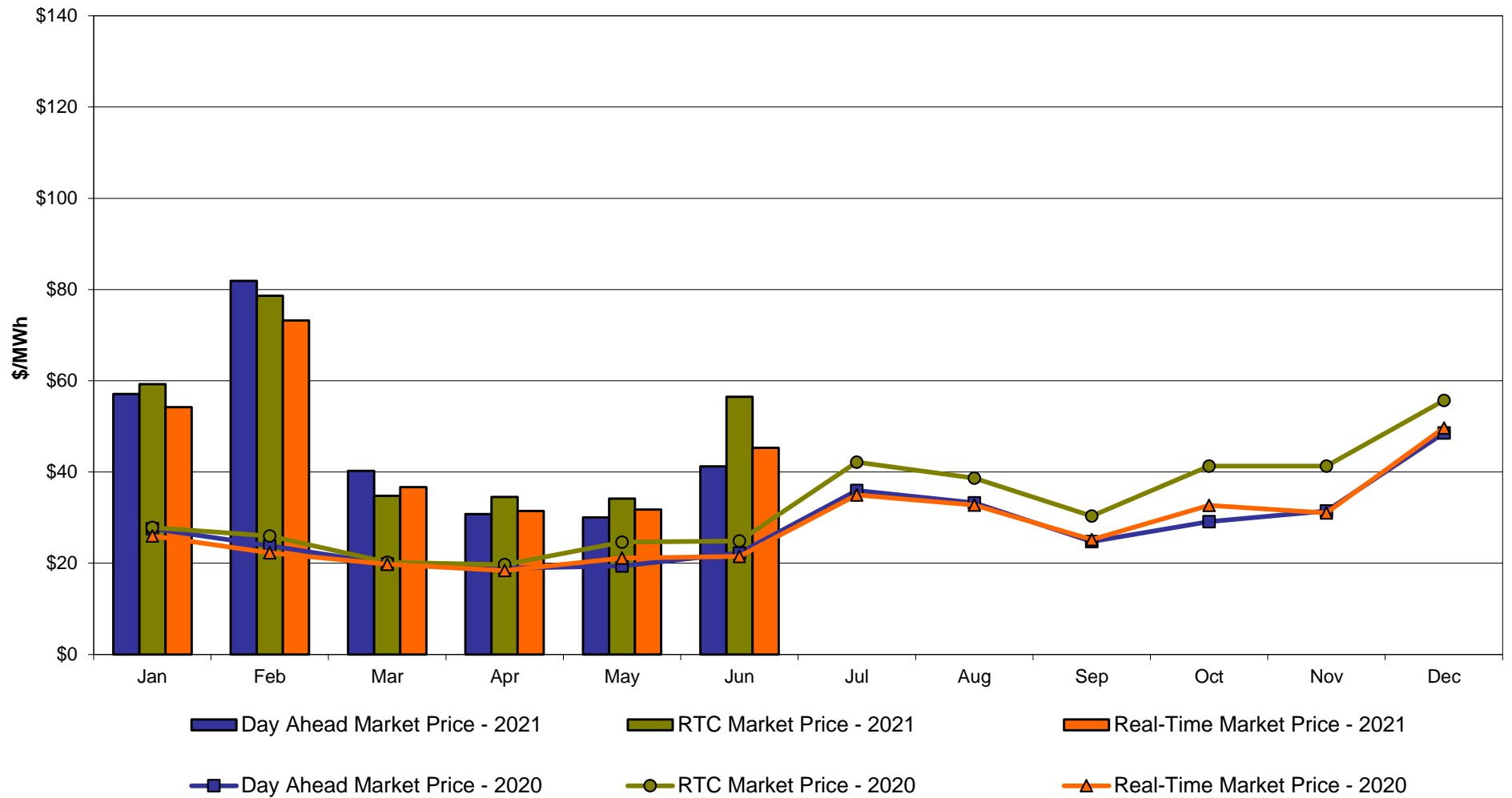
## Hudson Valley Zone G Monthly Average LBMP Prices 2020 - 2021



# **NYC Zone J** **Monthly Average LBMP Prices 2020 - 2021**

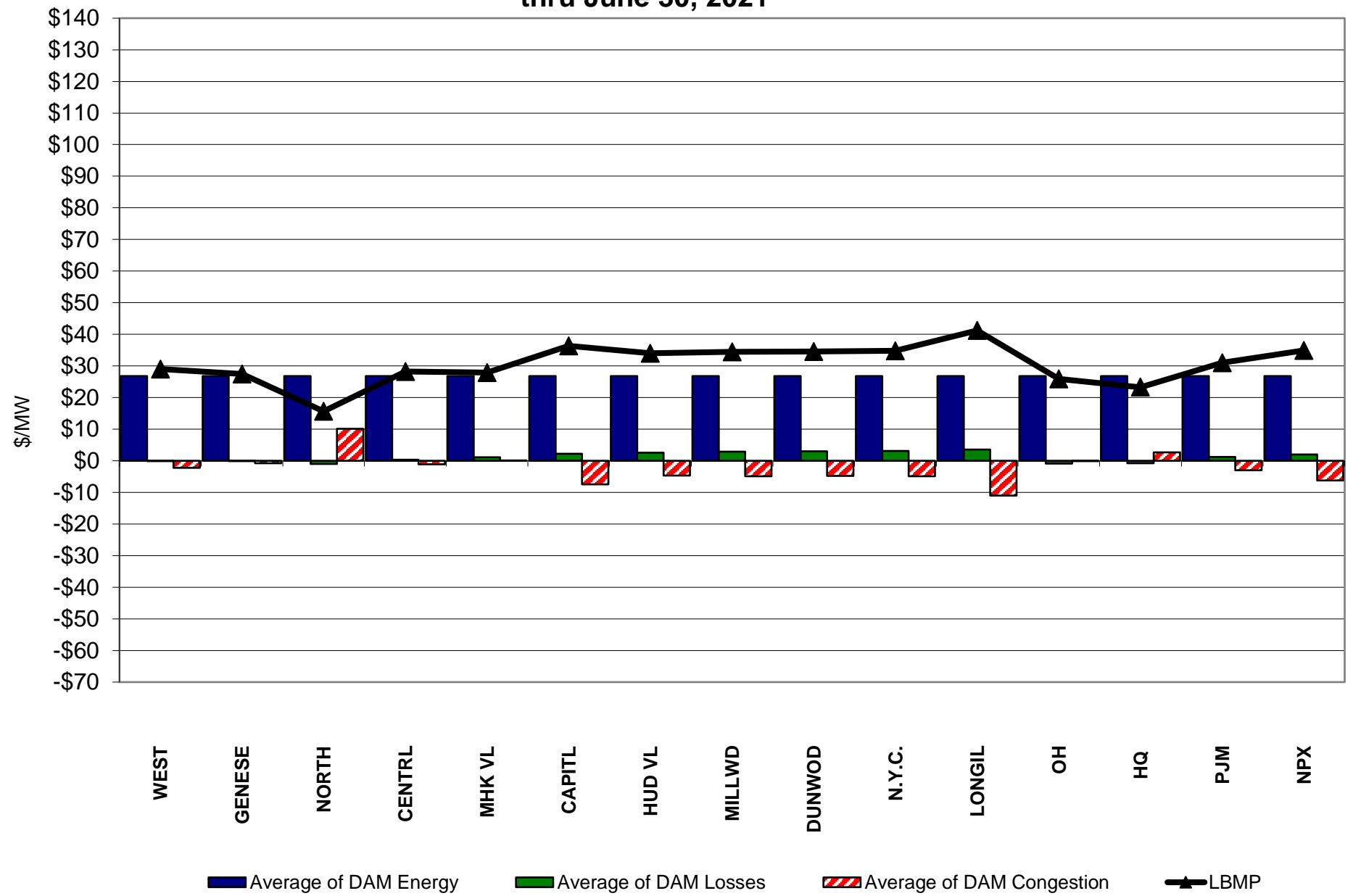


# Long Island Zone K Monthly Average LBMP Prices 2020 - 2021

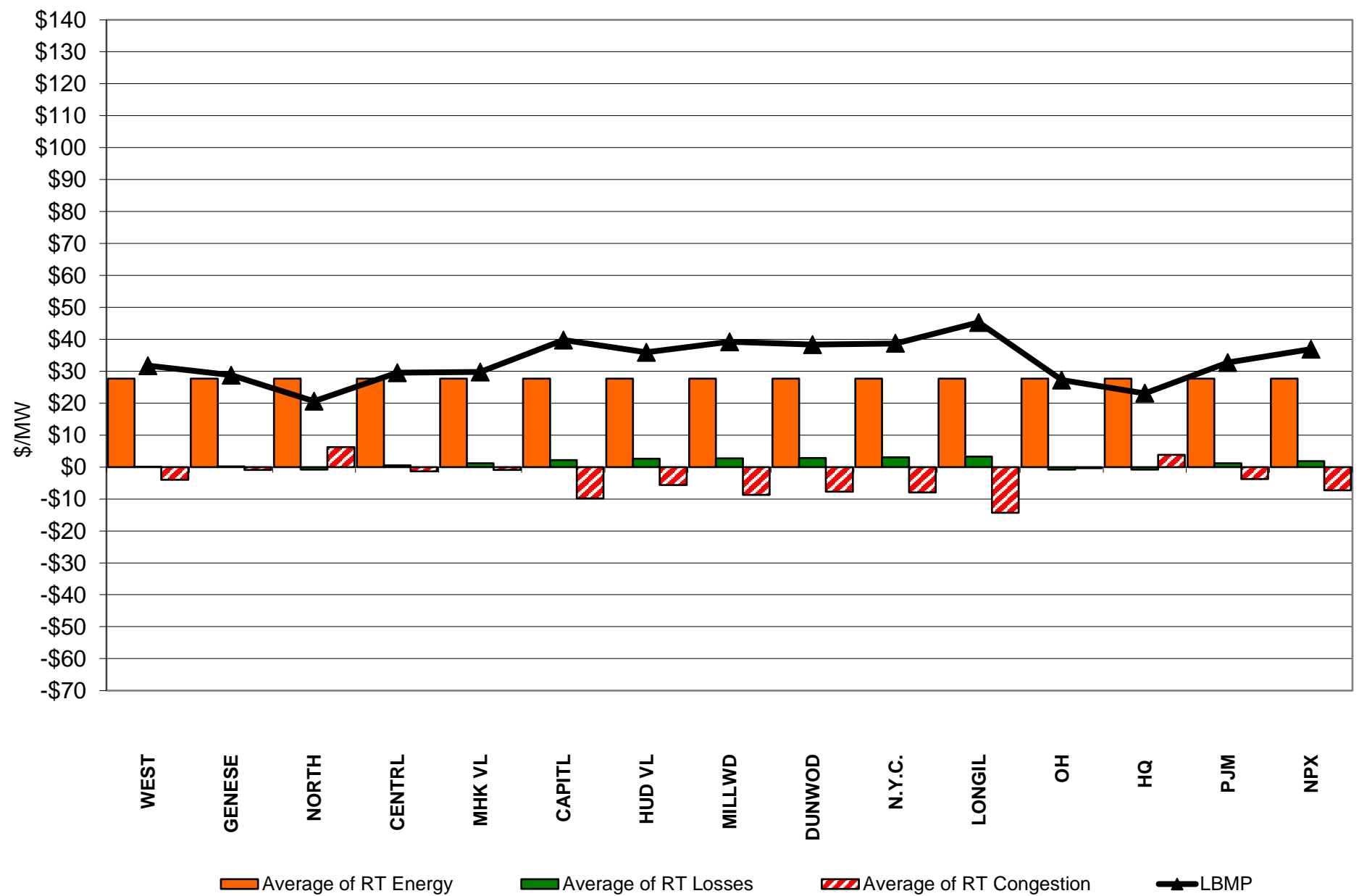




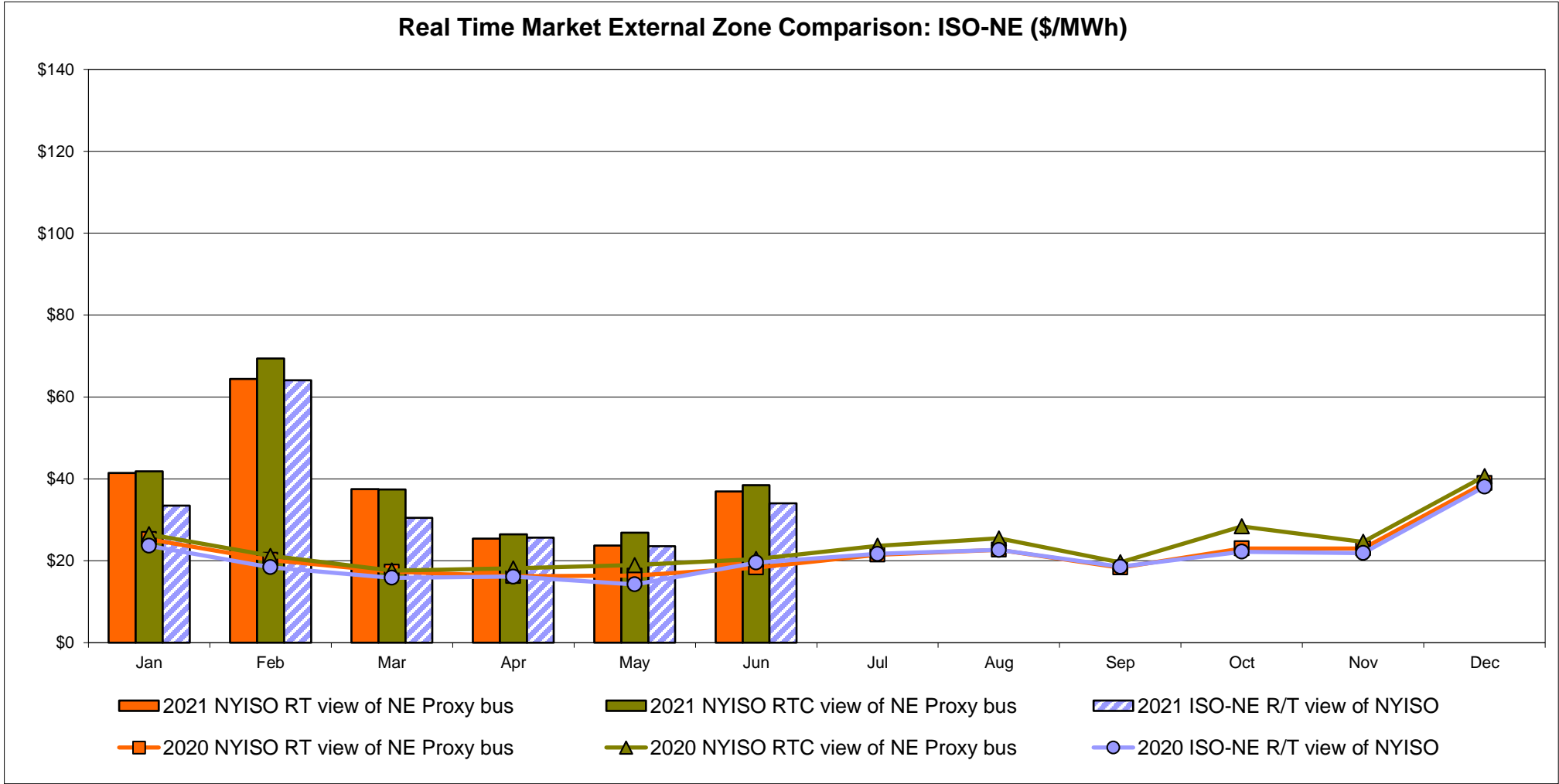
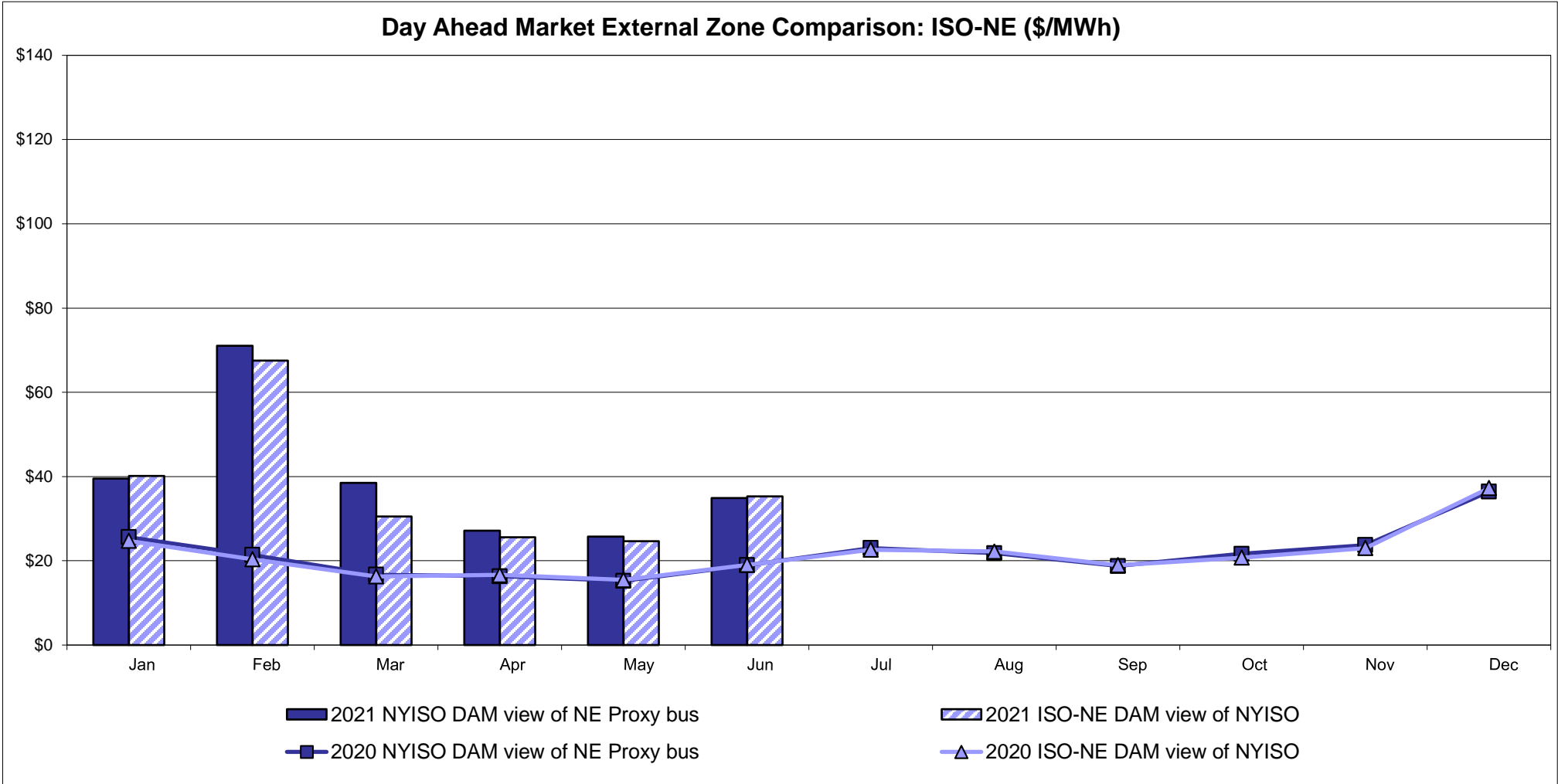
**DAM Zonal Unweighted Monthly Average LBMP Components  
thru June 30, 2021**



**RT Zonal Unweighted Monthly Average LBMP Components  
thru June 30, 2021**

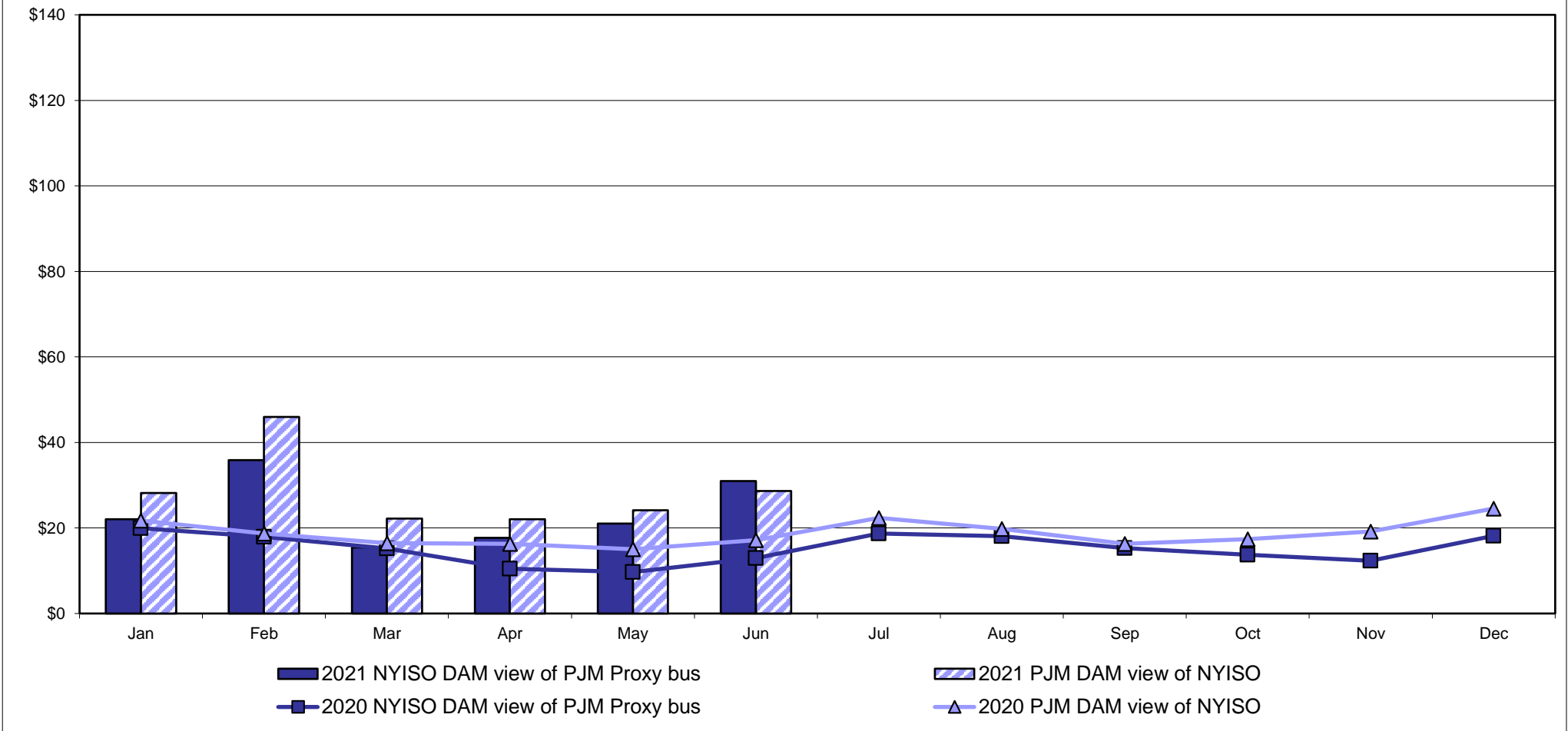


External Comparison ISO-New England

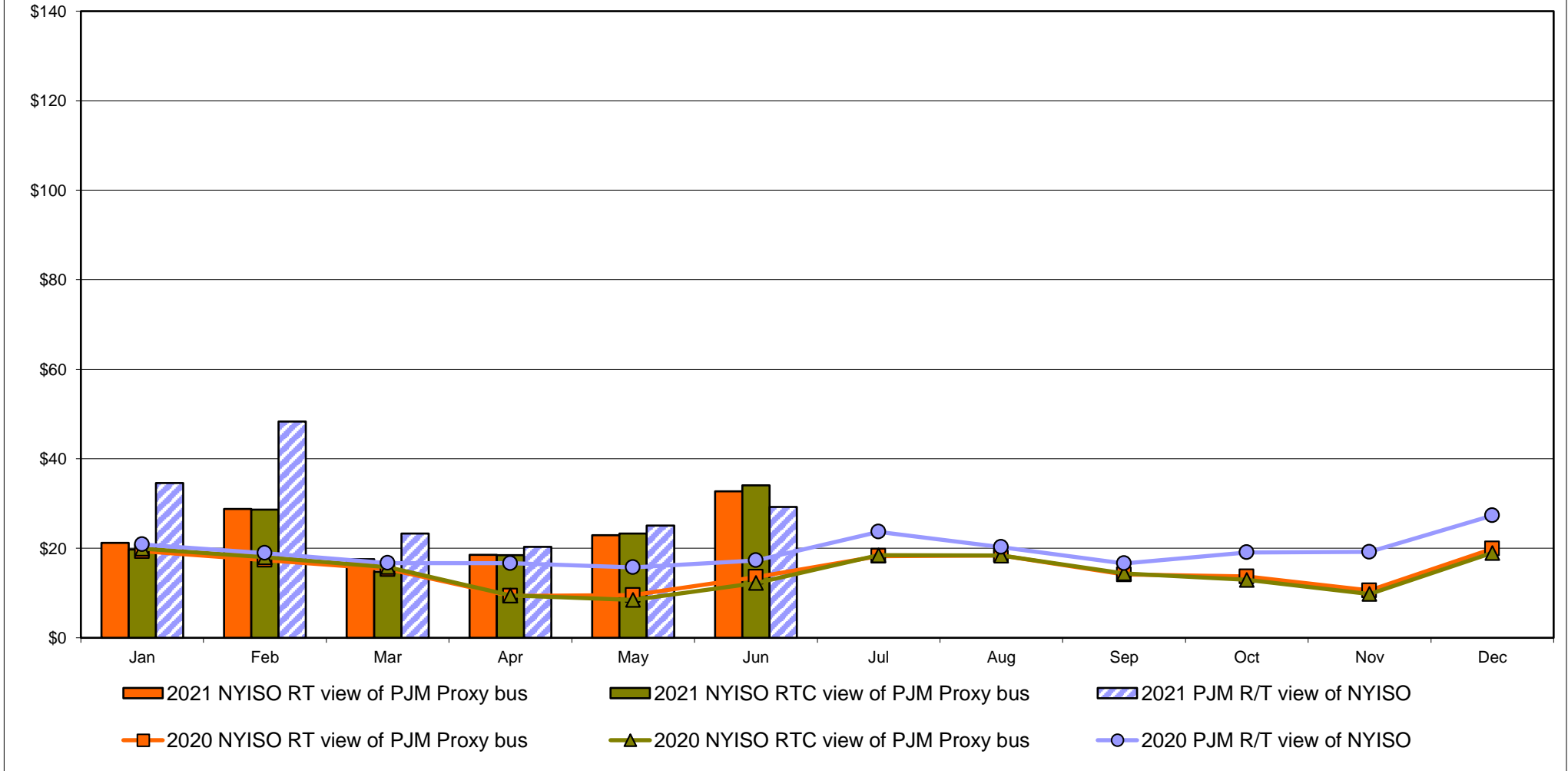


# External Comparison PJM

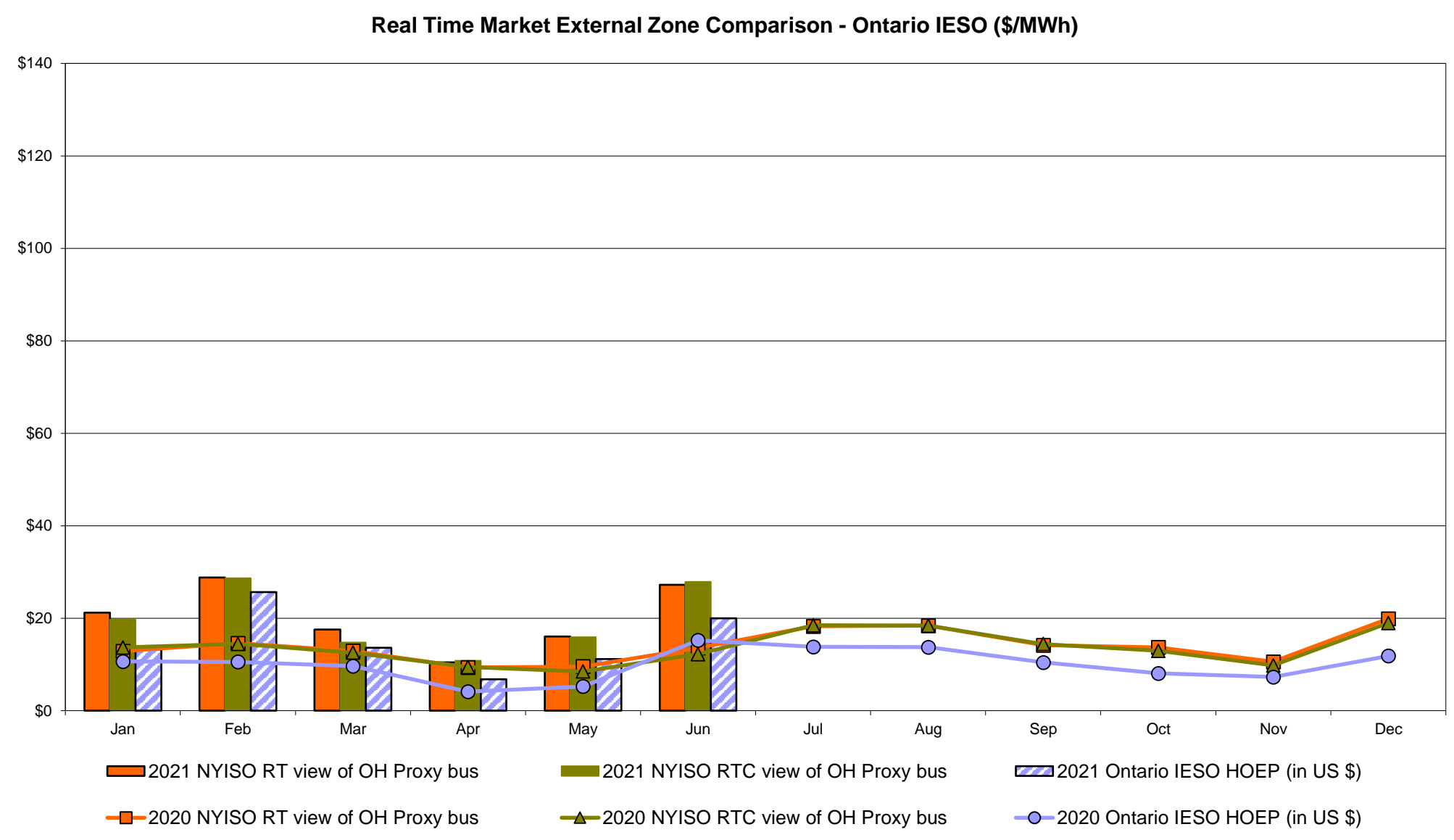
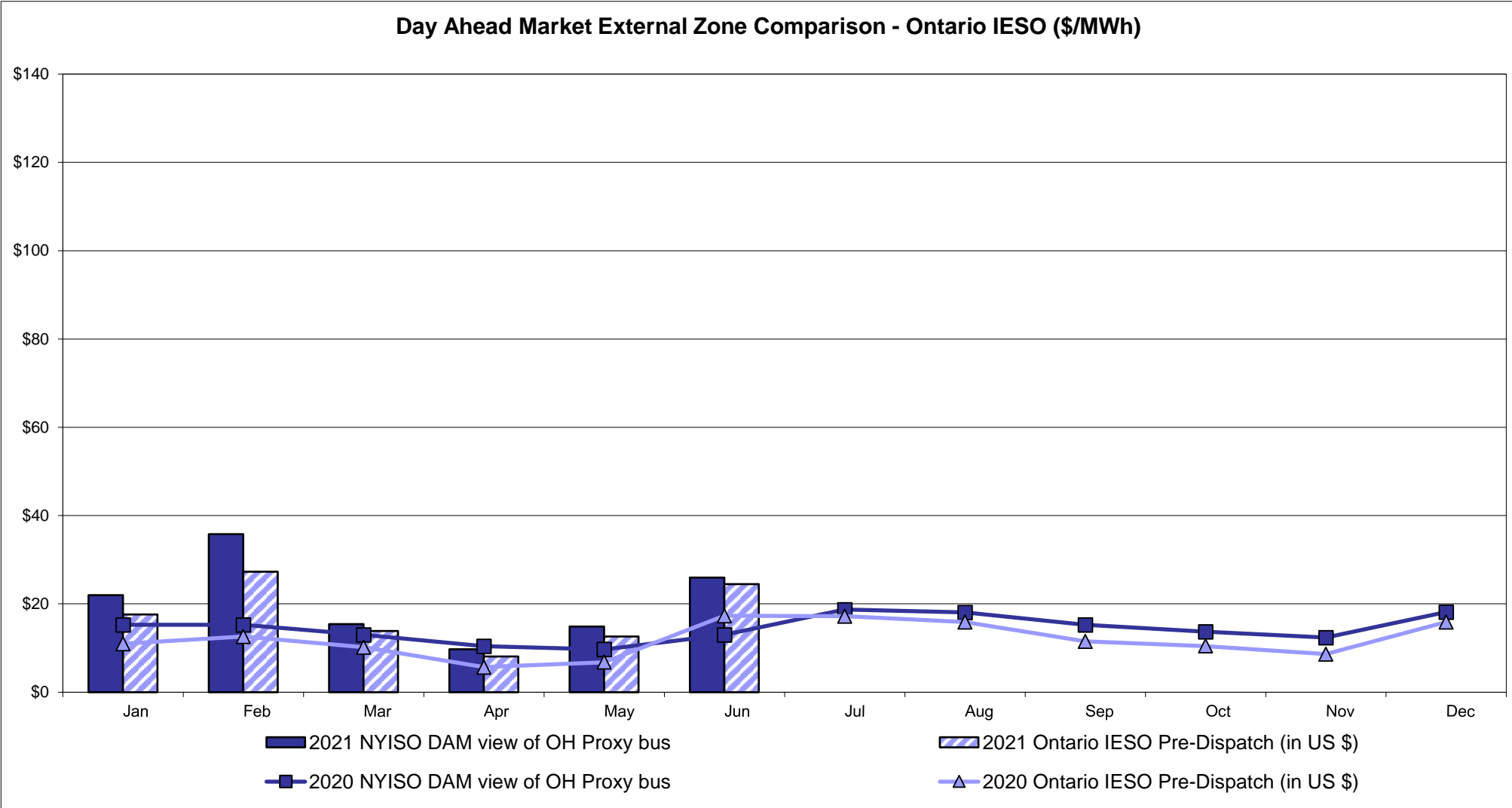
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

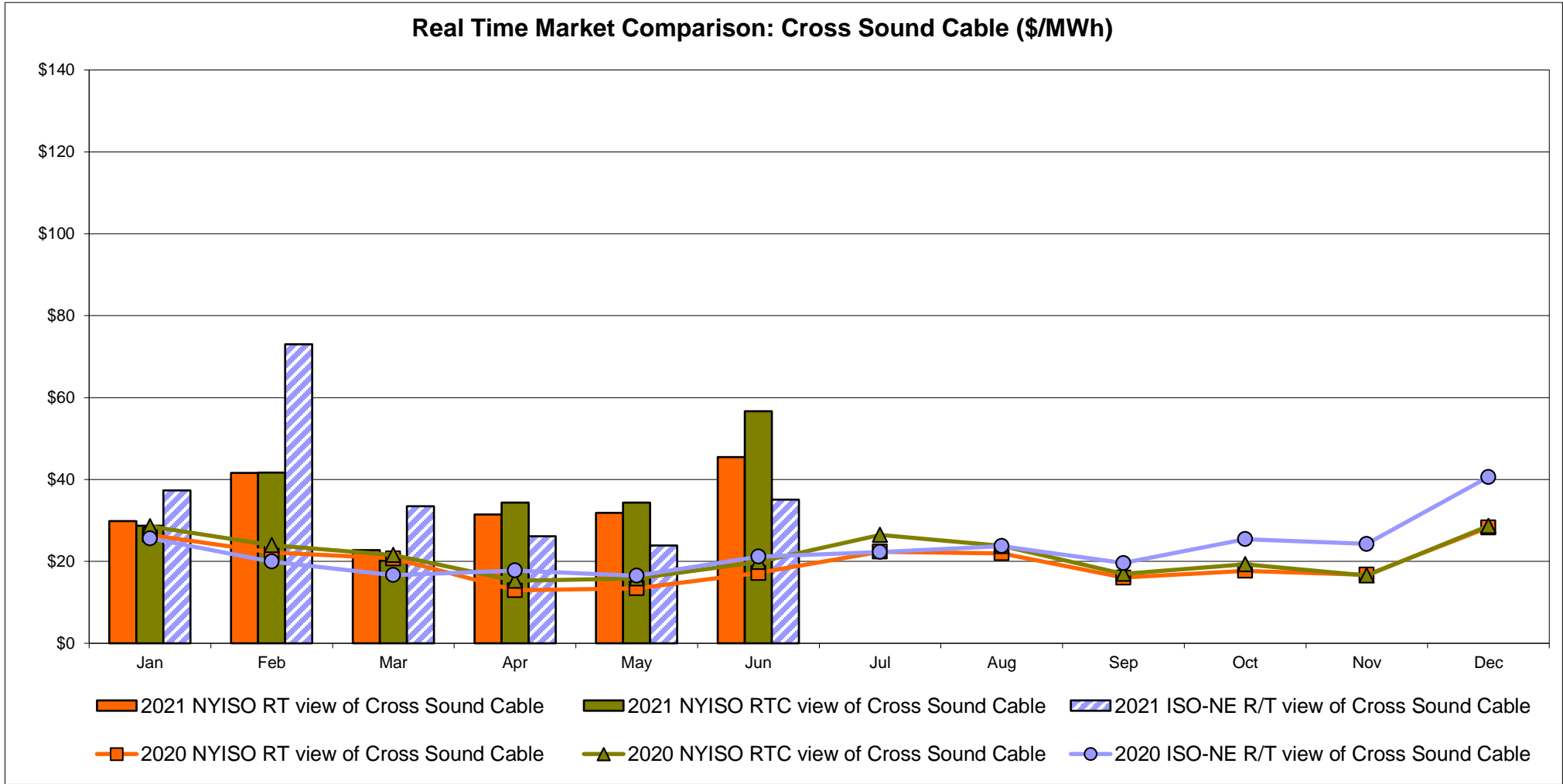
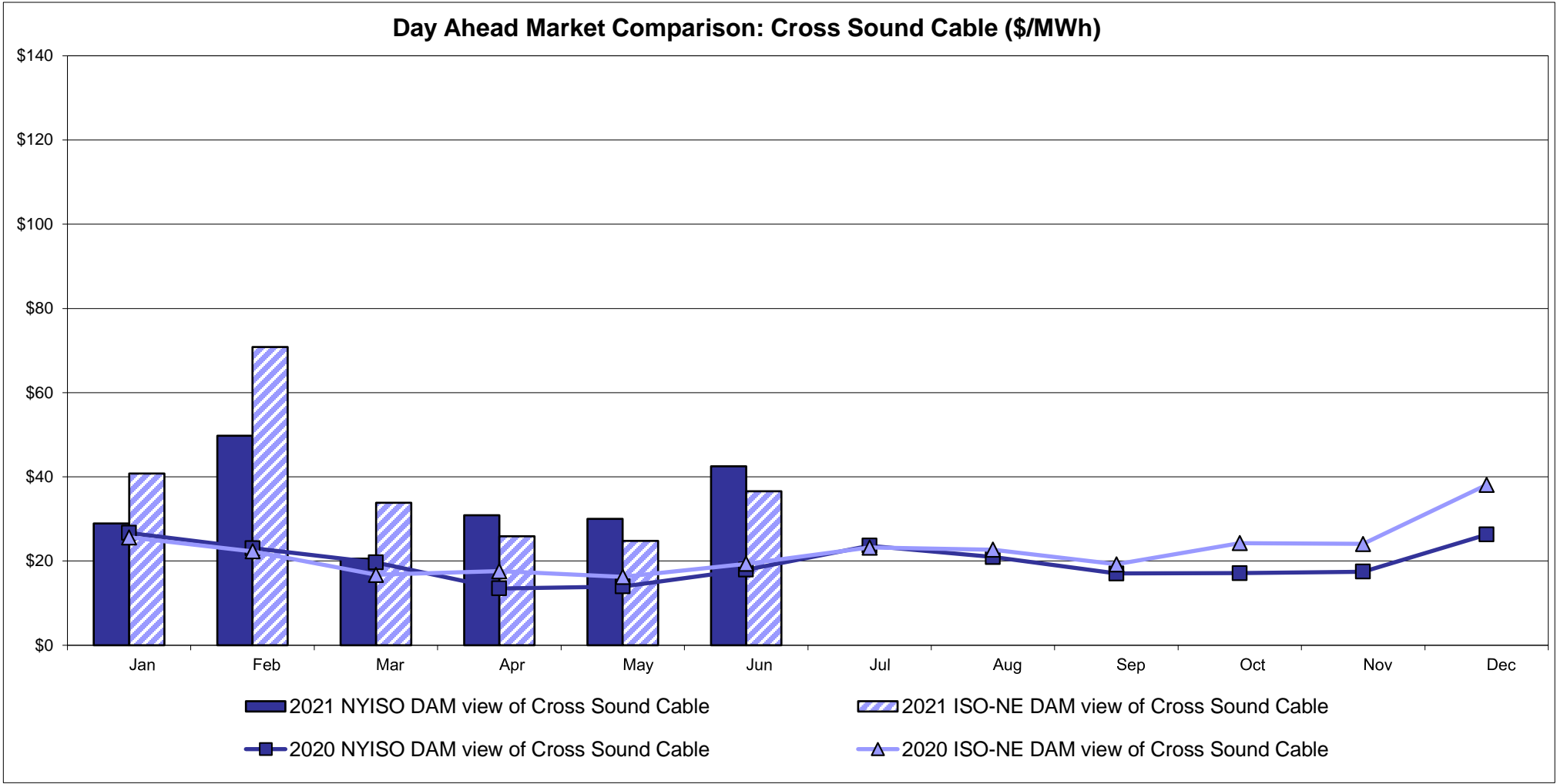


External Comparison Ontario IESO



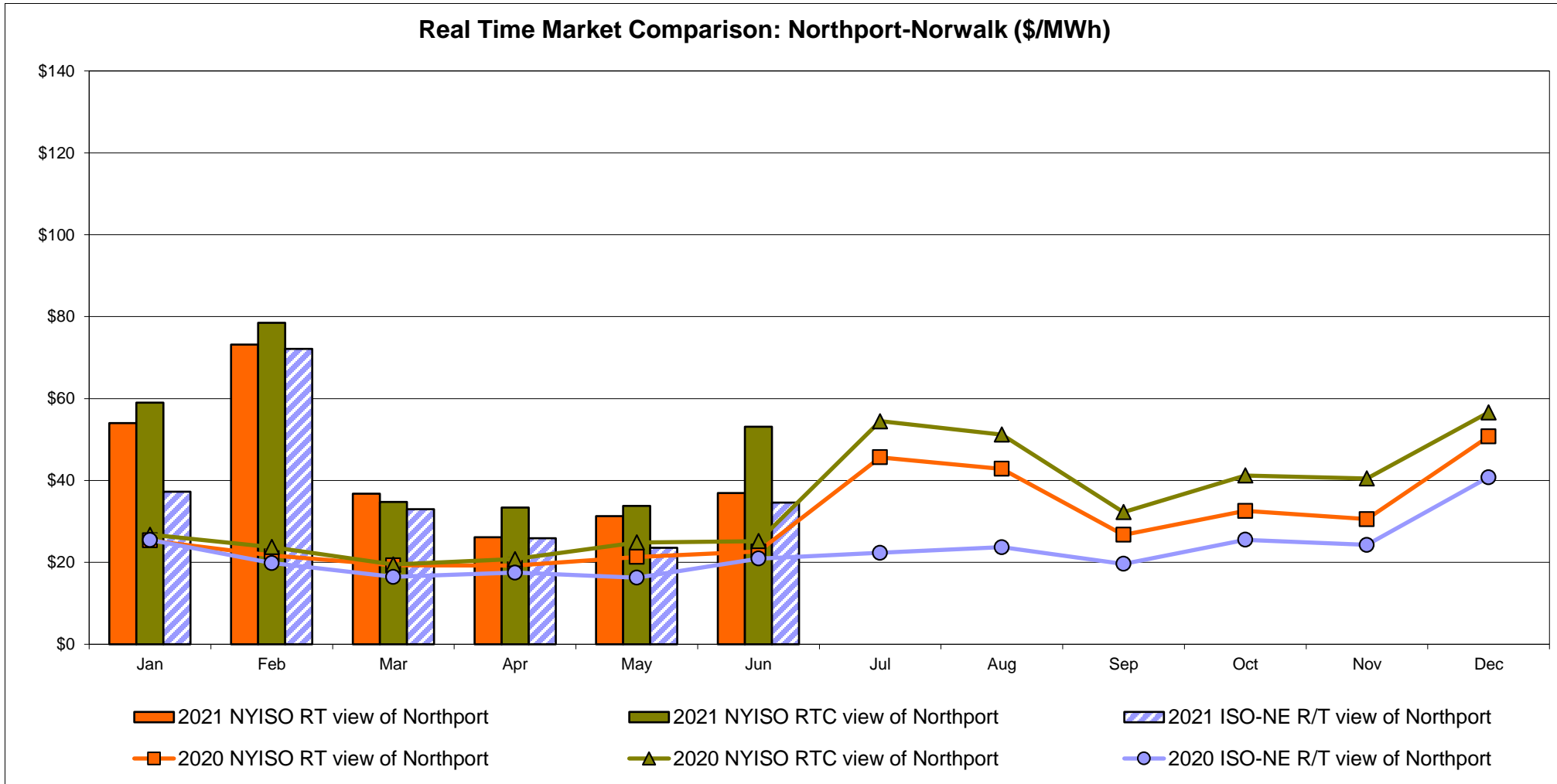
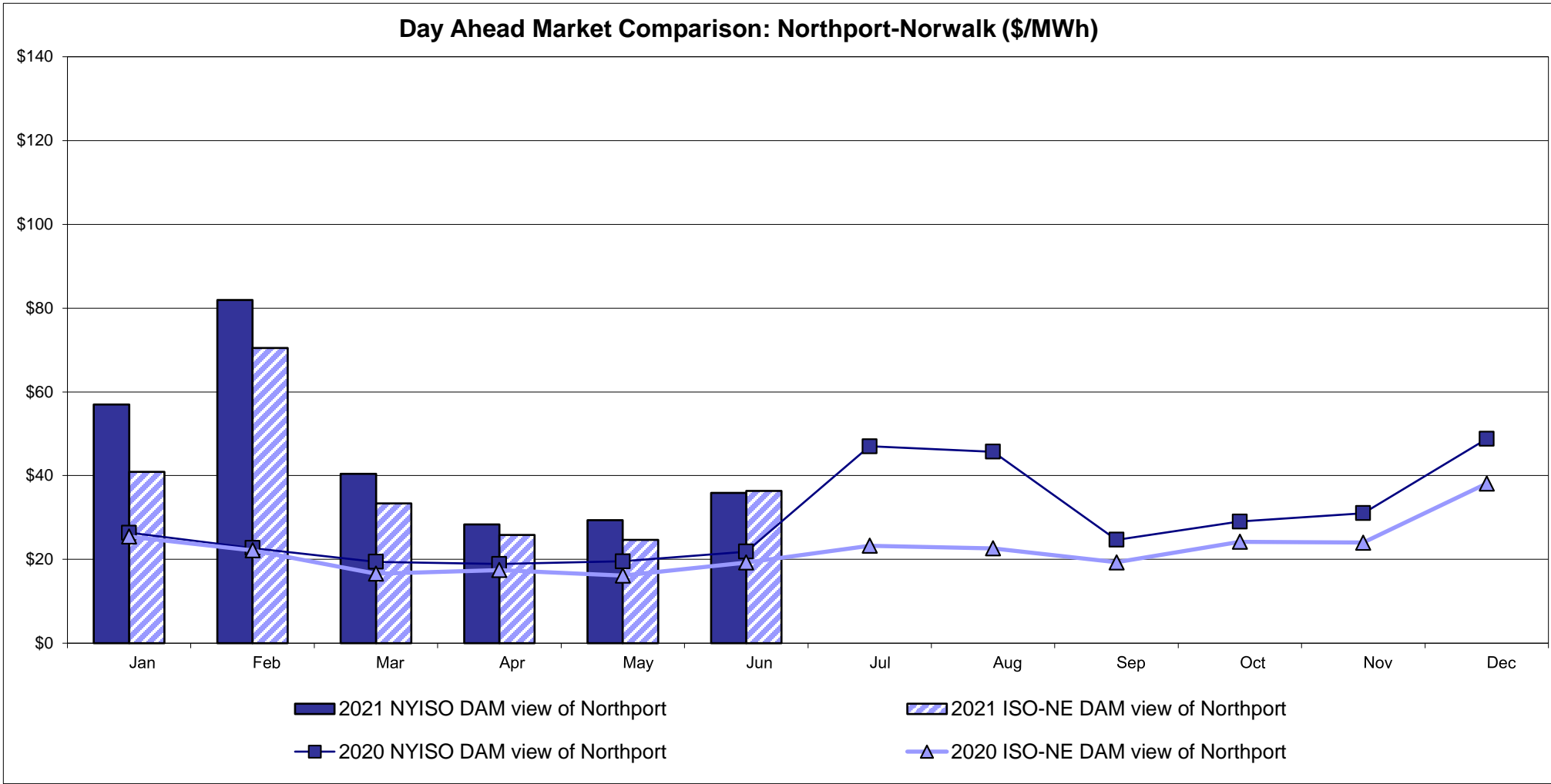
Notes: Exchange factor used for June 2021 was 0.818330605564648 to US  
HOEP: Hourly Ontario Energy Price  
Pre-Dispatch: Projected Energy Price

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



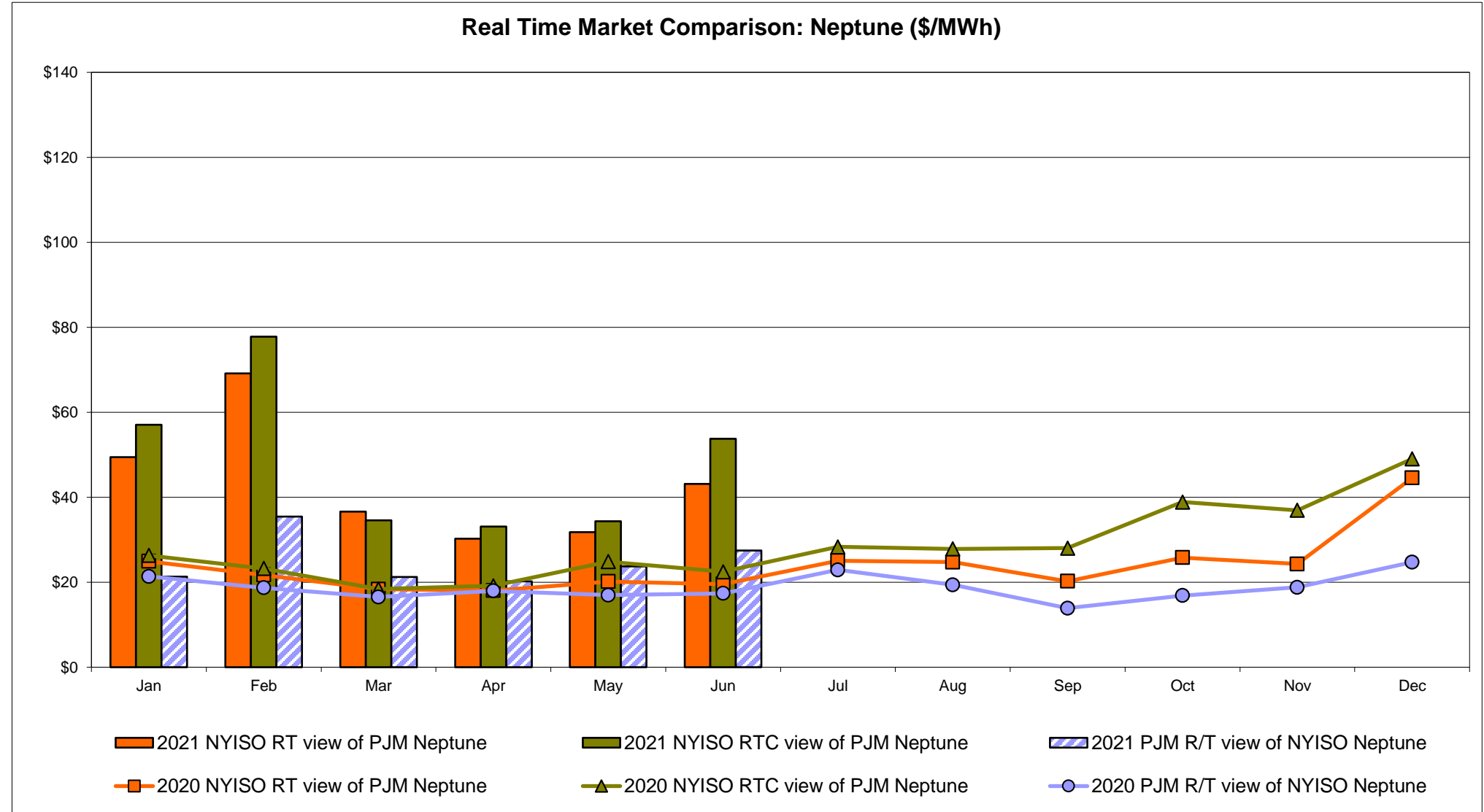
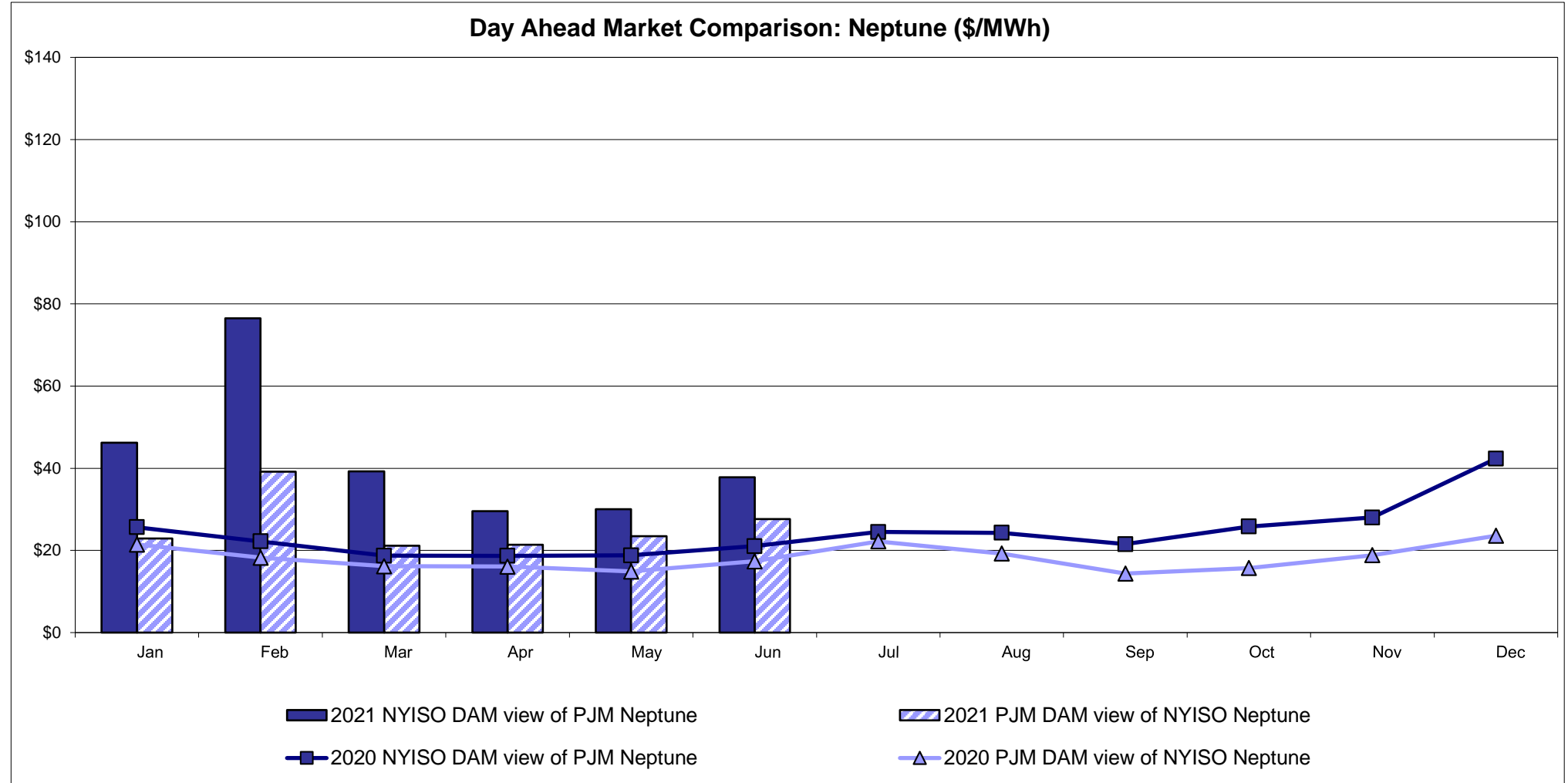
Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.  
The DAM and R/T prices at the CSC interface are used for NYISO.

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

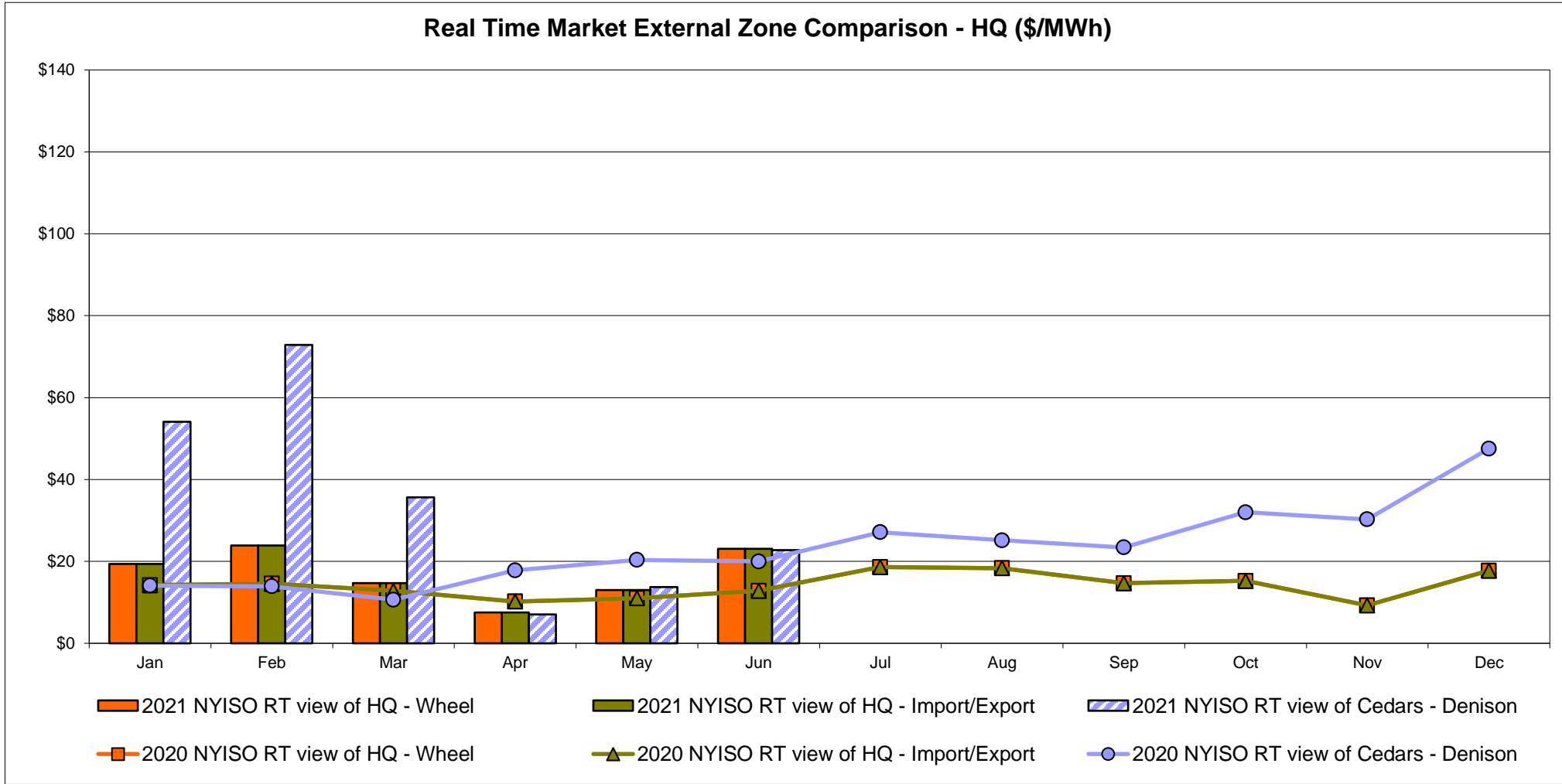
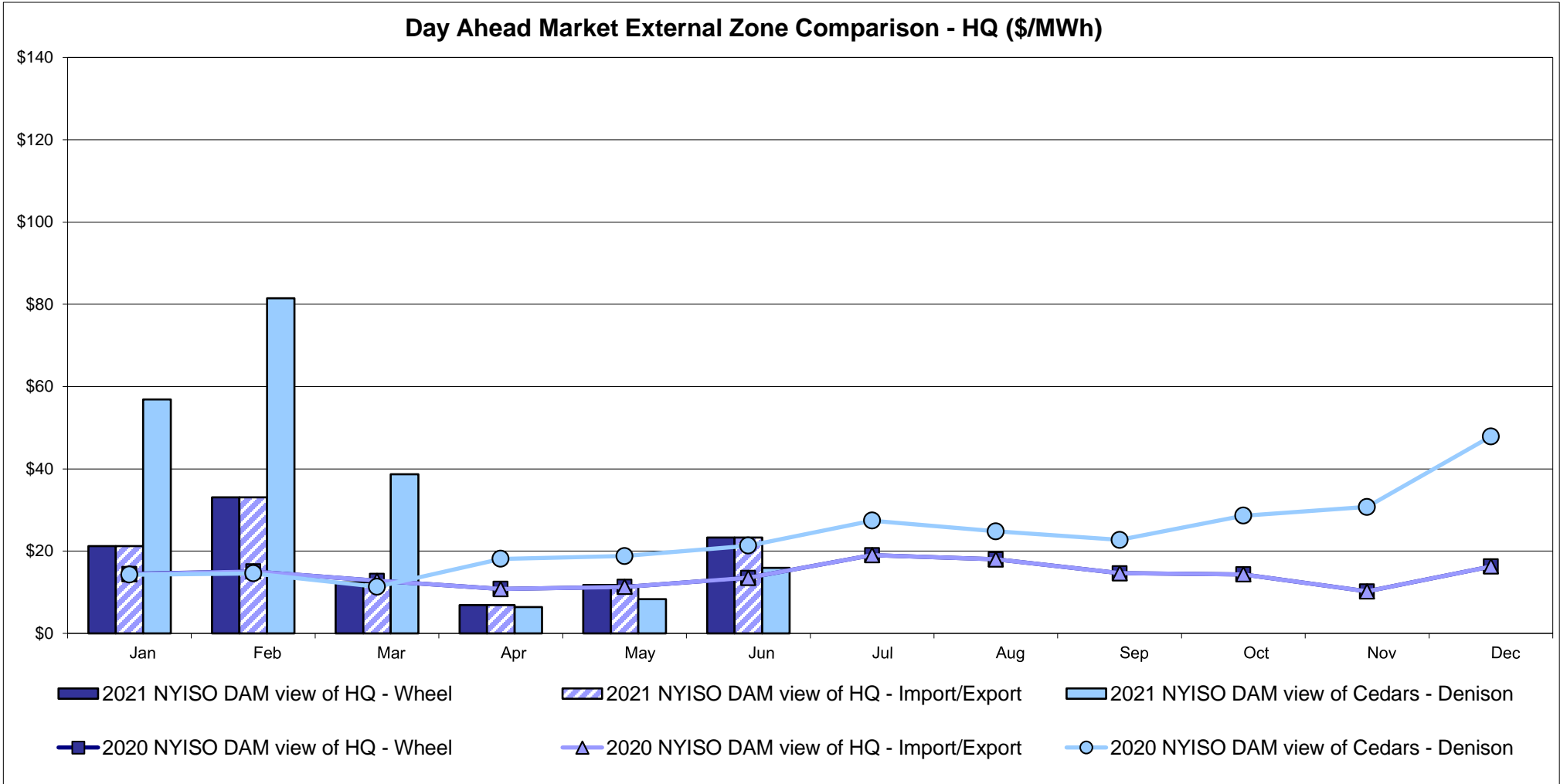


Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)



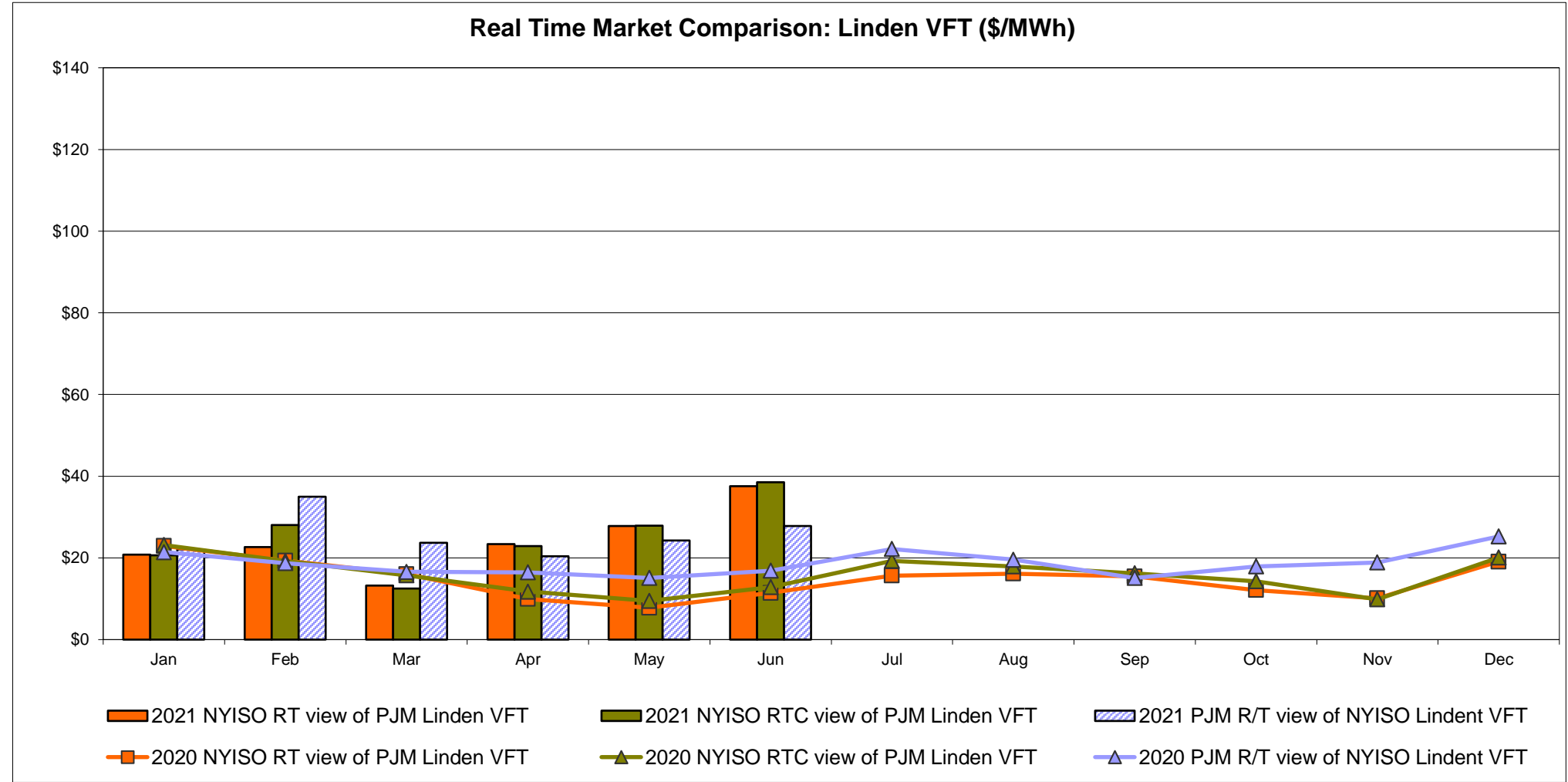
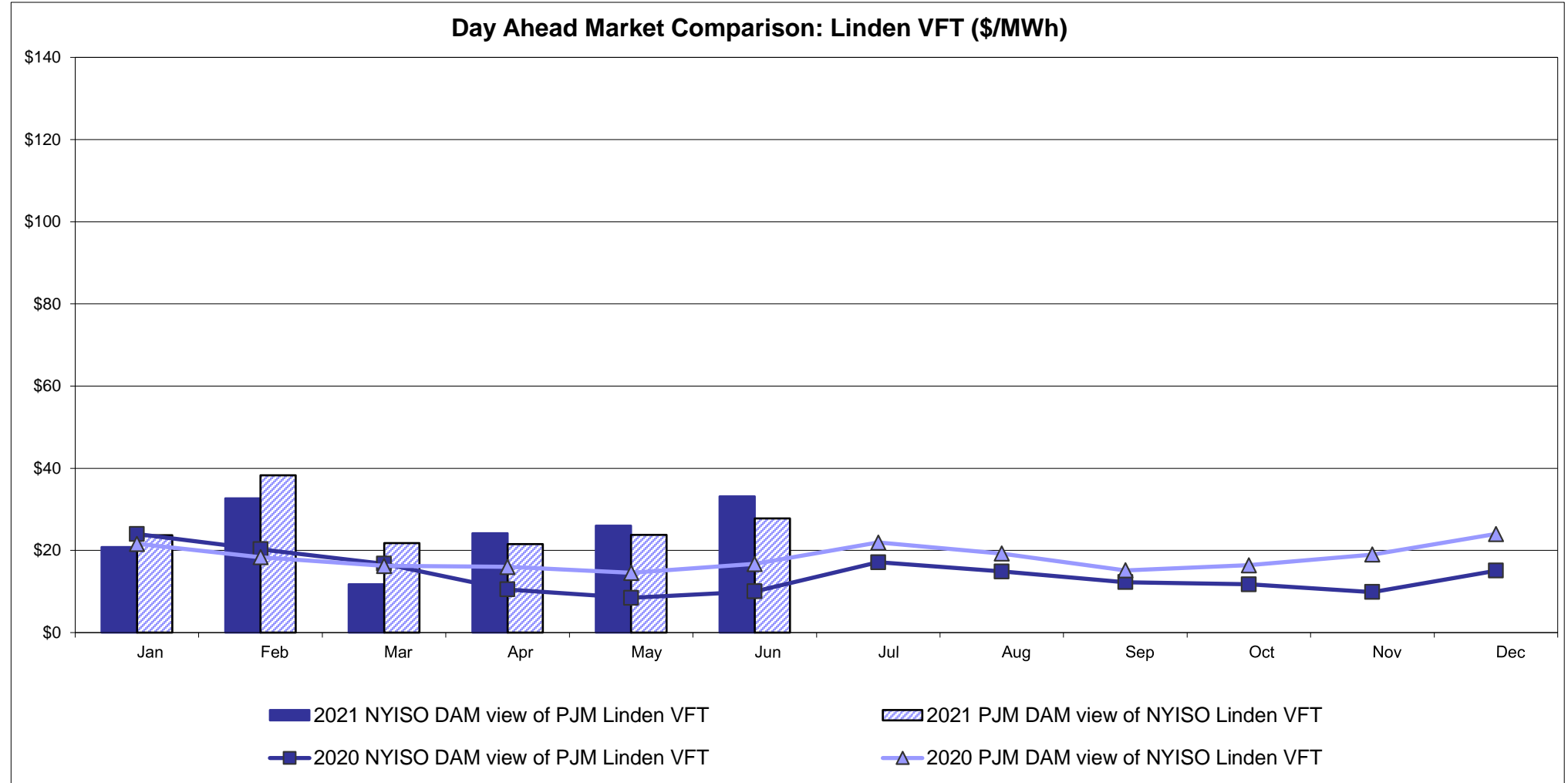
External Comparison Hydro-Quebec



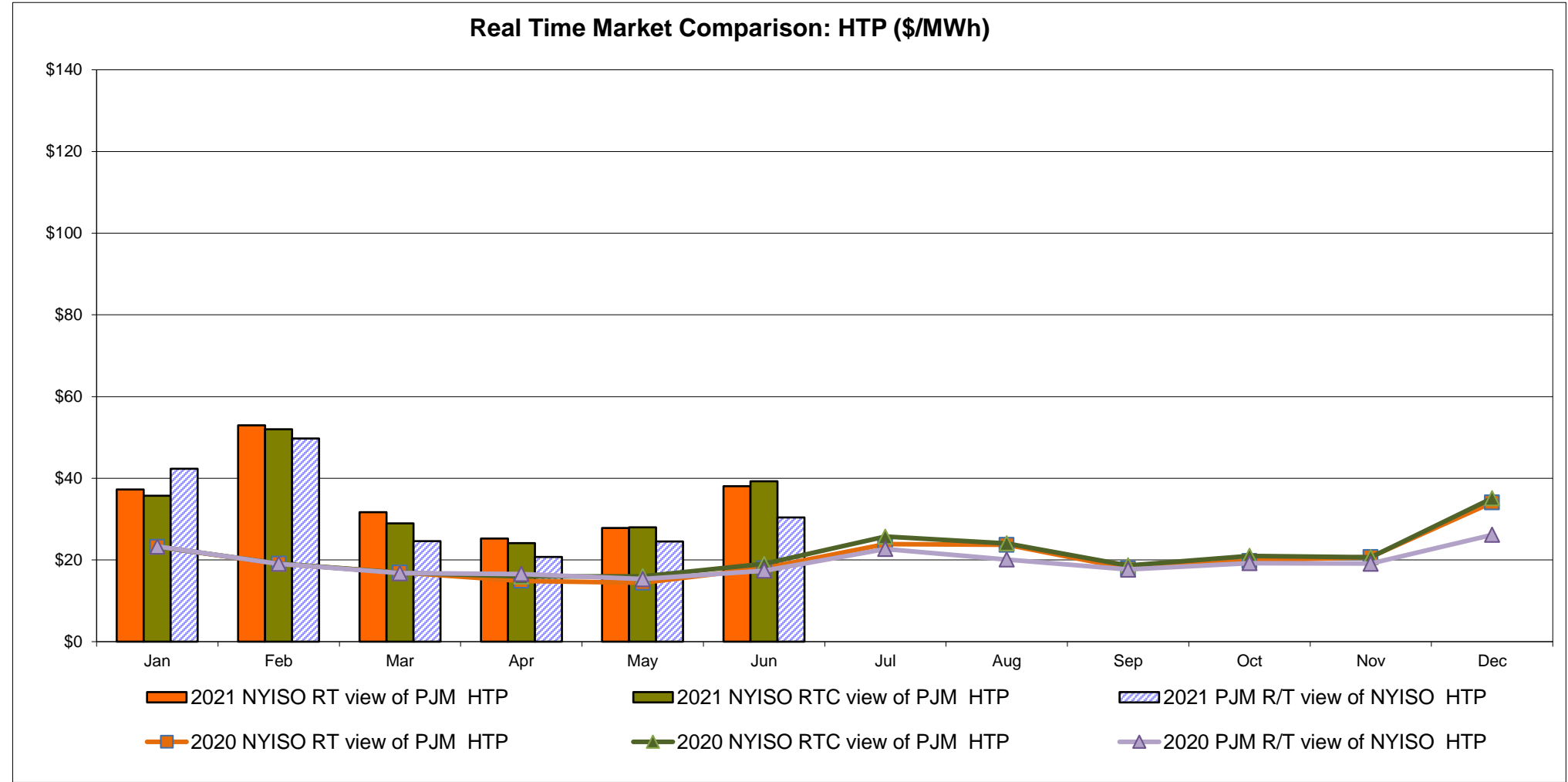
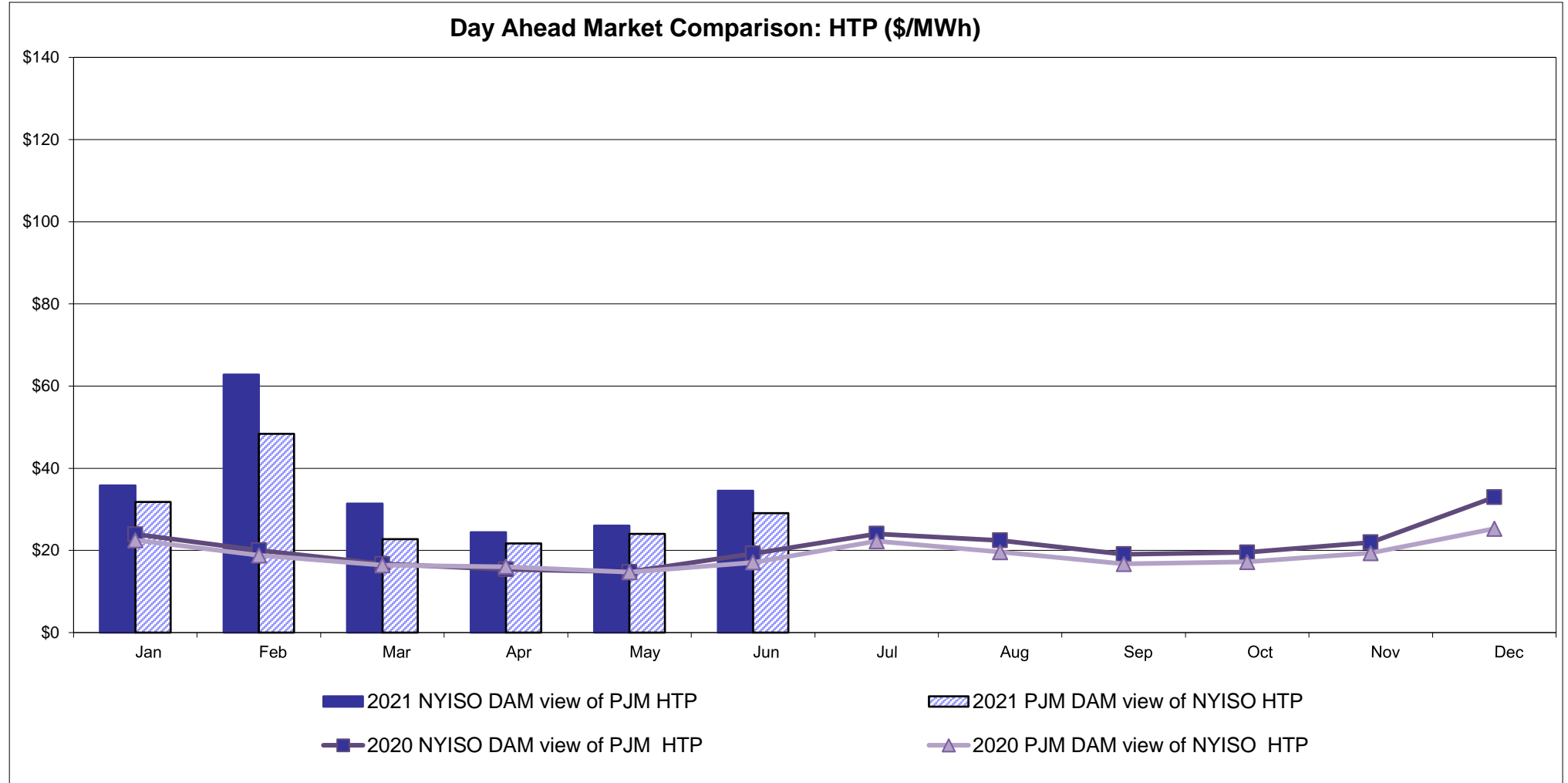
Note:  
Hydro-Quebec Prices are unavailable.



External Controllable Line: Linden VFT (PJM)



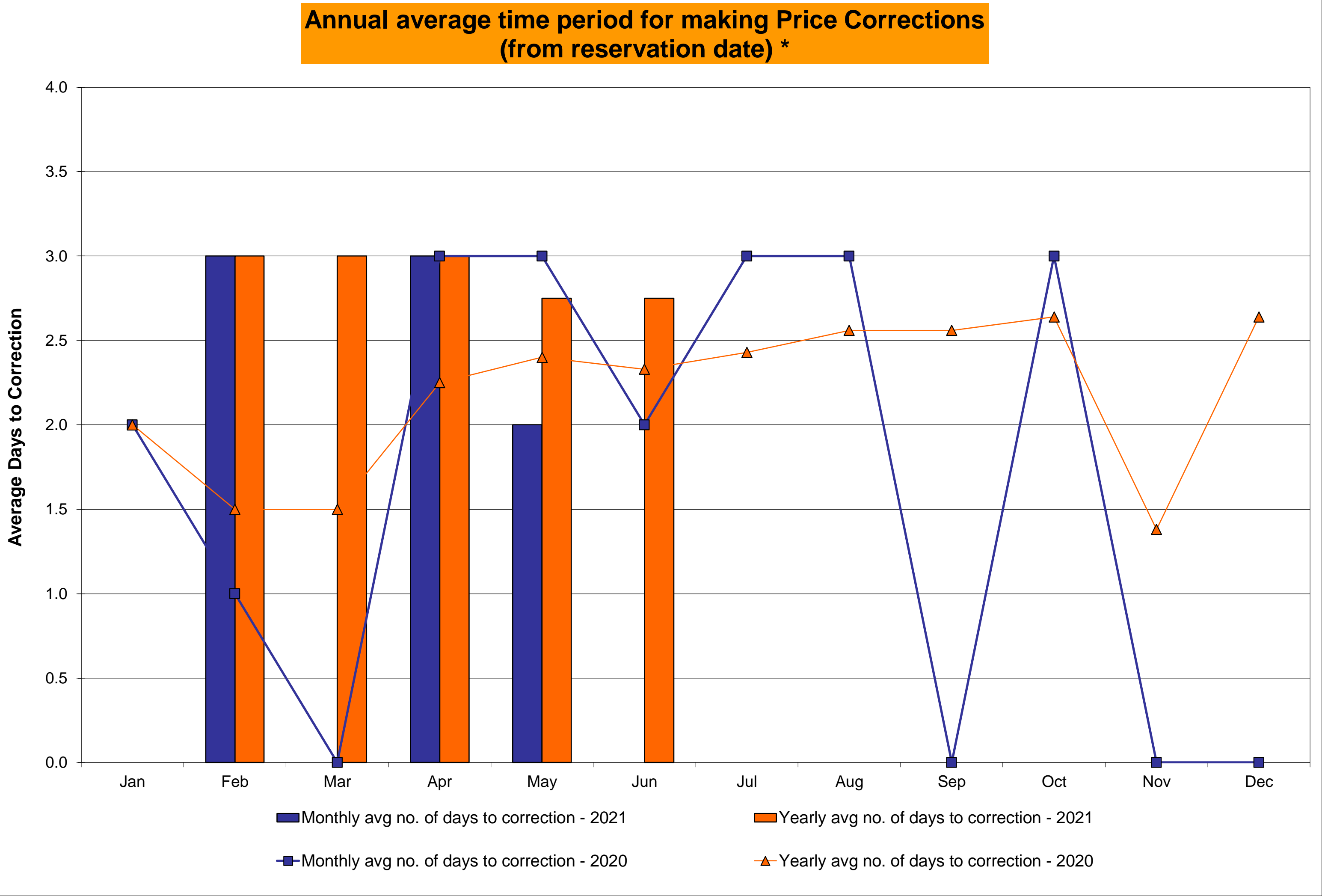
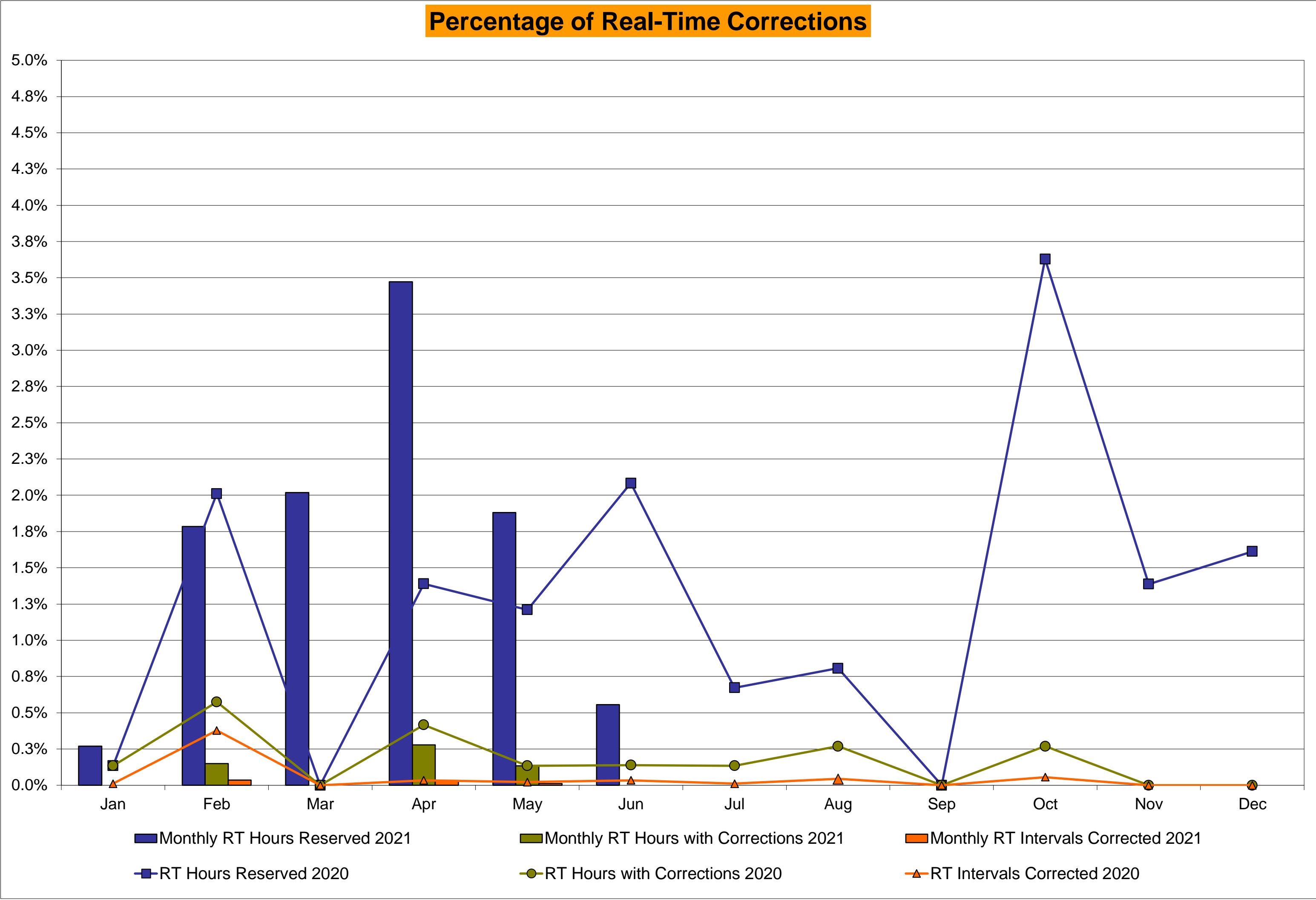
External Controllable Line: Hudson (PJM)



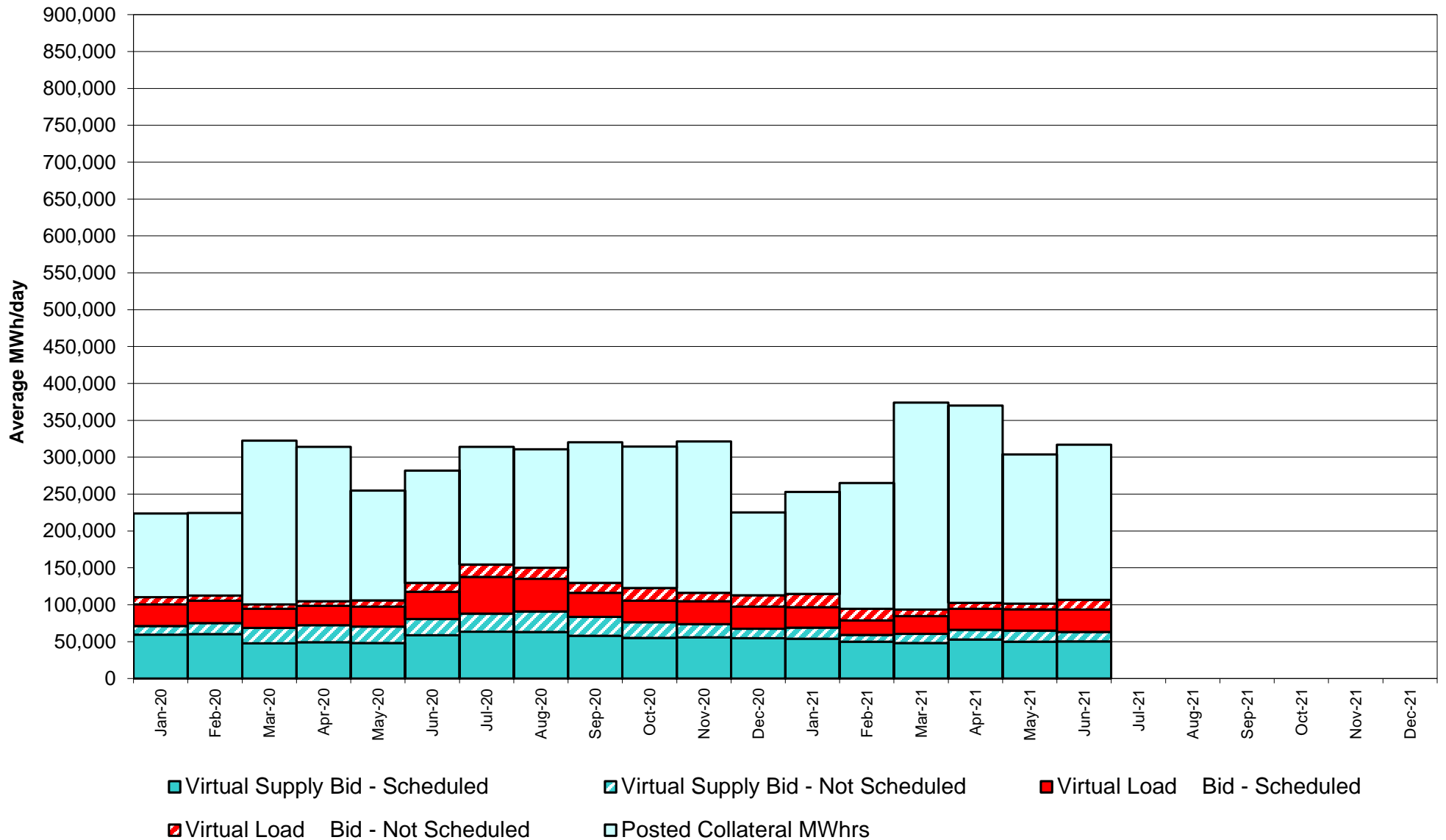
## NYISO Real Time Price Correction Statistics

<b>2021</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><u>Hour Corrections</u></b>													
Number of hours with corrections	in the month	0	1	0	2	1	0						
Number of hours	in the month	744	672	743	720	744	720						
% of hours with corrections	in the month	0.00%	0.15%	0.00%	0.28%	0.13%	0.00%						
% of hours with corrections	year-to-date	0.00%	0.07%	0.05%	0.10%	0.11%	0.09%						
<b><u>Interval Corrections</u></b>													
Number of intervals corrected	in the month	0	3	0	3	1	0						
Number of intervals	in the month	9,095	8,236	9,100	8,827	9,157	8,813						
% of intervals corrected	in the month	0.00%	0.04%	0.00%	0.03%	0.01%	0.00%						
% of intervals corrected	year-to-date	0.00%	0.02%	0.01%	0.02%	0.02%	0.01%						
<b><u>Hours Reserved</u></b>													
Number of hours reserved	in the month	2	12	15	25	14	4						
Number of hours	in the month	744	672	743	720	744	720						
% of hours reserved	in the month	0.27%	1.79%	2.02%	3.47%	1.88%	0.56%						
% of hours reserved	year-to-date	0.27%	0.99%	1.34%	1.88%	1.88%	1.66%						
<b><u>Days to Correction</u> *</b>													
Avg. number of days to correction	in the month	0.00	3.00	0.00	3.00	2.00	0.00						
Avg. number of days to correction	year-to-date	0.00	3.00	3.00	3.00	2.75	2.75						
<b><u>Days Without Corrections</u></b>													
Days without corrections	in the month	31	27	31	28	30	30						
Days without corrections	year-to-date	31	58	89	117	147	177						
<b>2020</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><u>Hour Corrections</u></b>													
Number of hours with corrections	in the month	1	4	0	3	1	1	1	2	0	2	0	0
Number of hours	in the month	744	696	743	720	744	720	744	744	720	744	721	744
% of hours with corrections	in the month	0.13%	0.57%	0.00%	0.42%	0.13%	0.14%	0.13%	0.27%	0.00%	0.27%	0.00%	0.00%
% of hours with corrections	year-to-date	0.13%	0.35%	0.23%	0.28%	0.25%	0.23%	0.22%	0.22%	0.20%	0.20%	0.19%	0.17%
<b><u>Interval Corrections</u></b>													
Number of intervals corrected	in the month	1	32	0	3	2	3	1	4	0	5	0	0
Number of intervals	in the month	9,088	8,460	9,011	8,776	9,030	8,826	9,128	9,156	8,810	9,048	8,790	9,083
% of intervals corrected	in the month	0.01%	0.38%	0.00%	0.03%	0.02%	0.03%	0.01%	0.04%	0.00%	0.06%	0.00%	0.00%
% of intervals corrected	year-to-date	0.01%	0.19%	0.12%	0.10%	0.09%	0.08%	0.07%	0.06%	0.06%	0.06%	0.05%	0.05%
<b><u>Hours Reserved</u></b>													
Number of hours reserved	in the month	1	14	0	10	9	15	5	6	0	27	10	12
Number of hours	in the month	744	696	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	0.13%	2.01%	0.00%	1.39%	1.21%	2.08%	0.67%	0.81%	0.00%	3.63%	1.39%	1.61%
% of hours reserved	year-to-date	0.13%	1.04%	0.69%	0.86%	0.93%	1.12%	1.06%	1.02%	0.91%	1.19%	1.21%	1.24%
<b><u>Days to Correction</u> *</b>													
Avg. number of days to correction	in the month	2.00	1.00	0.00	3.00	3.00	2.00	3.00	3.00	0.00	3.00	0.00	0.00
Avg. number of days to correction	year-to-date	2.00	1.50	1.50	2.25	2.40	2.33	2.43	2.56	2.56	2.64	1.38	2.64
<b><u>Days Without Corrections</u></b>													
Days without corrections	in the month	30	28	31	28	30	29	30	29	30	29	30	31
Days without corrections	year-to-date	30	58	89	117	147	176	206	235	265	294	324	355

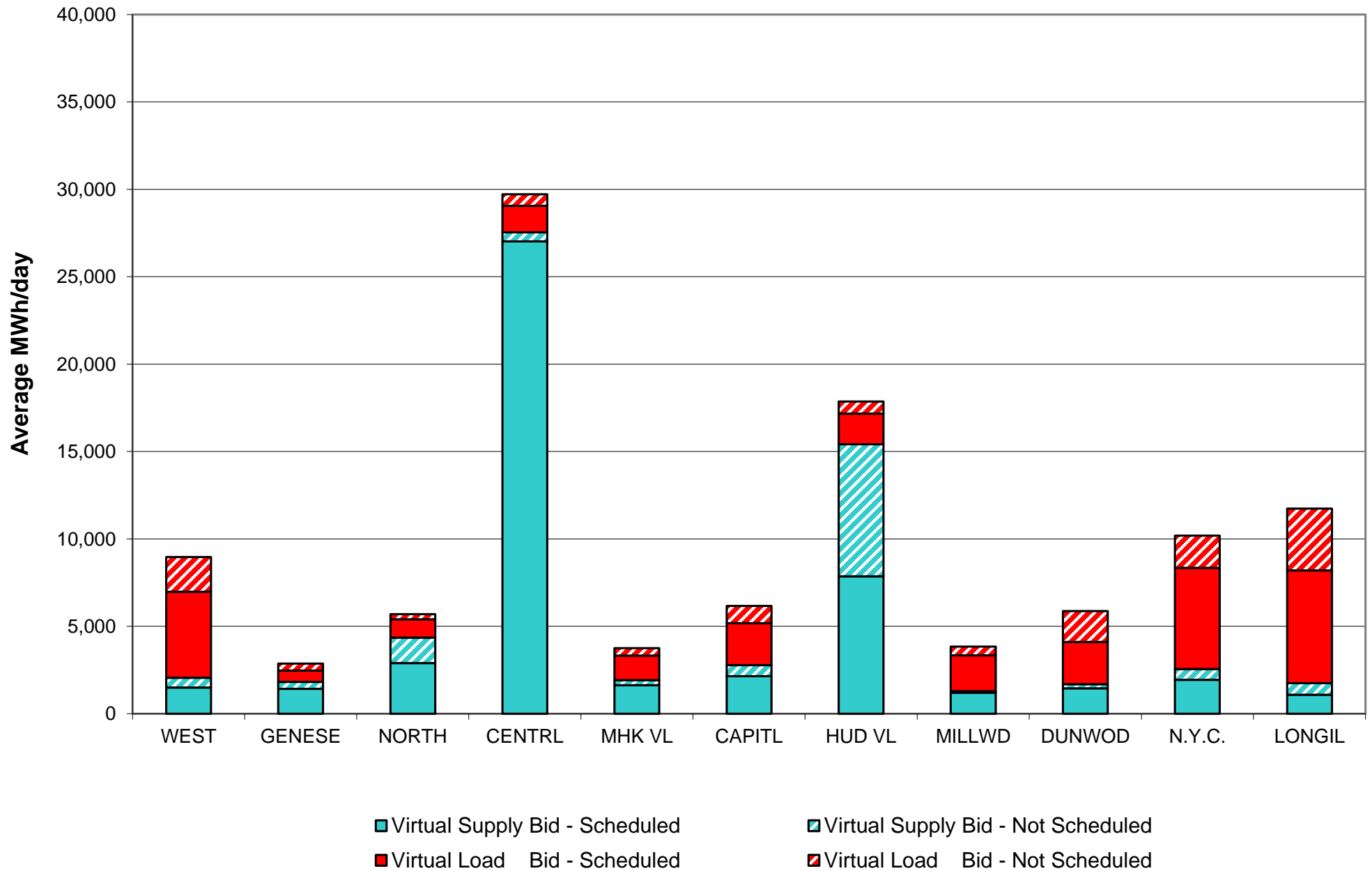
\*Calendar days from reservation date; for June 2018 forward, business days from market date



# NYISO Virtual Trading Average MWh per day



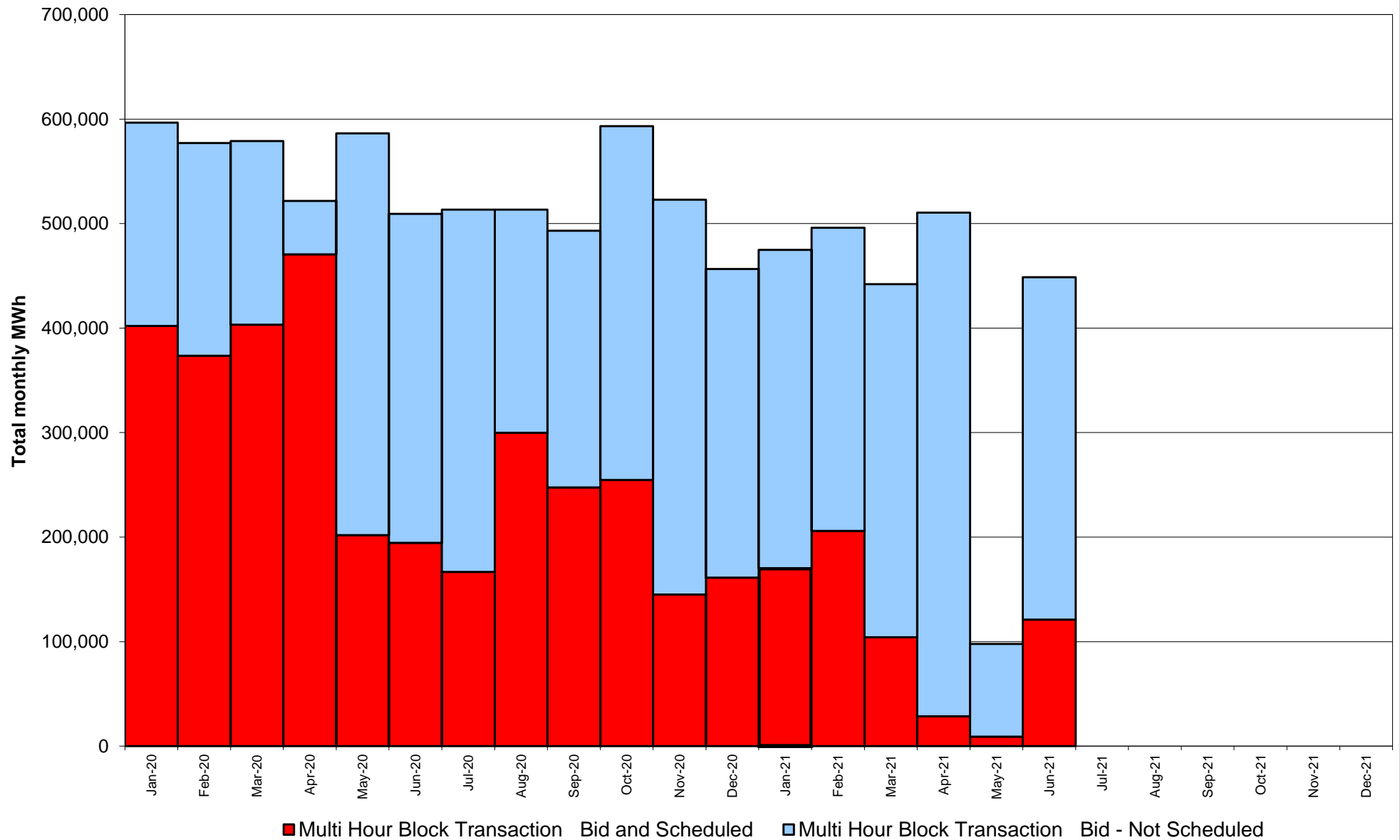
# Virtual Load and Supply Zonal Statistics through June 30, 2021



## Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2021

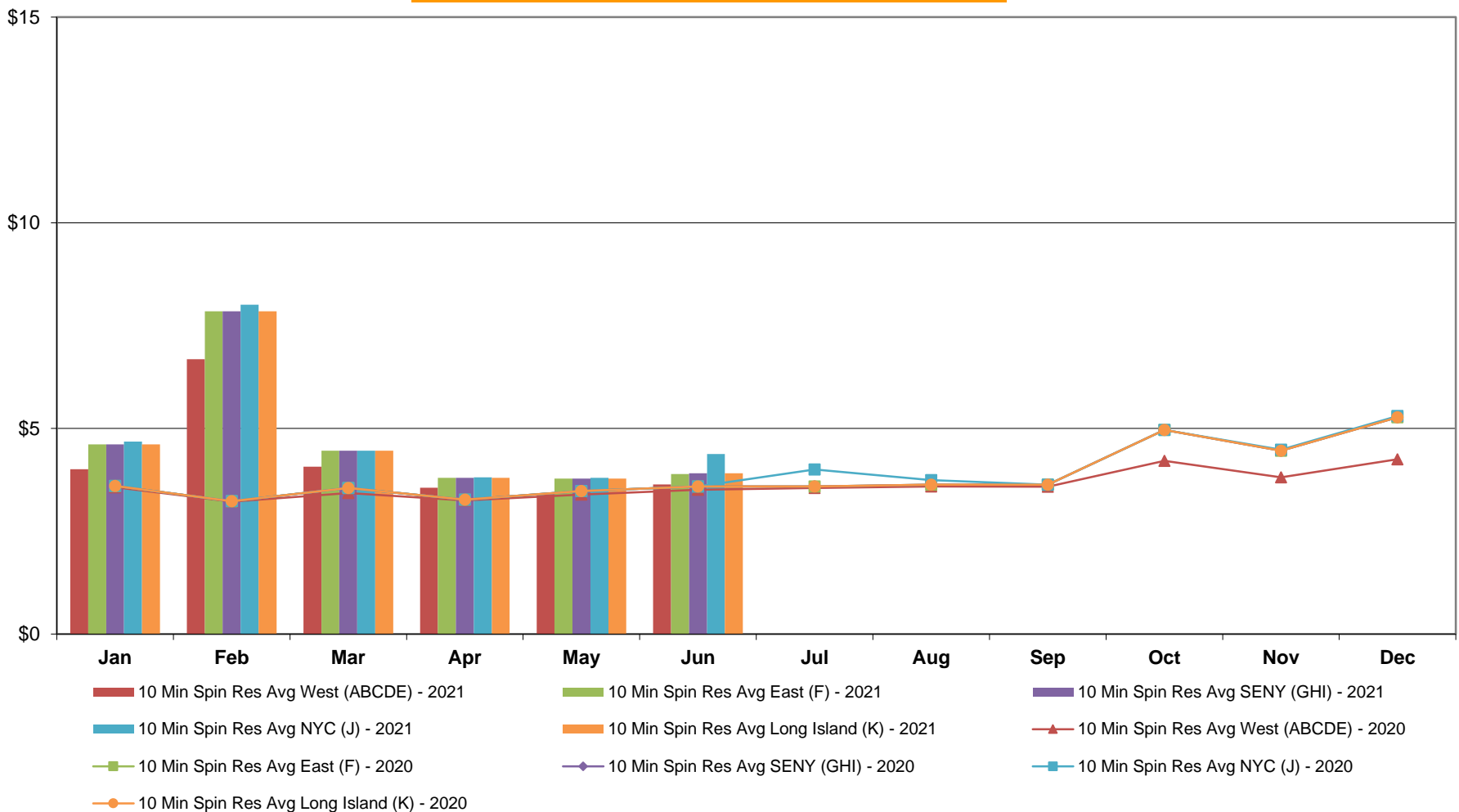
		Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled		Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled		Zone	Date	Scheduled	Not Scheduled
WEST	Jan-21	6,262	1,726	2,018	1,076		MHK VL	Jan-21	1,537	548	1,967	531		DUNWOD	Jan-21	1,881	2,339
	Feb-21	4,588	1,544	1,842	959			Feb-21	1,031	584	2,081	392			Feb-21	912	1,806
	Mar-21	5,696	840	1,144	893			Mar-21	1,669	305	1,402	524			Mar-21	1,303	817
	Apr-21	6,747	1,100	1,948	873			Apr-21	1,741	366	1,982	670			Apr-21	1,519	638
	May-21	7,289	1,632	1,432	630			May-21	1,279	353	2,009	447			May-21	3,219	868
	Jun-21	4,916	1,989	1,498	559			Jun-21	1,400	438	1,637	283			Jun-21	2,411	1,770
	Jul-21							Jul-21							Jul-21		
	Aug-21							Aug-21							Aug-21		
	Sep-21							Sep-21							Sep-21		
	Oct-21							Oct-21							Oct-21		
	Nov-21							Nov-21							Nov-21		
	Dec-21							Dec-21							Dec-21		
GENESE	Jan-21	1,117	329	1,085	853		CAPITL	Jan-21	3,046	1,995	2,207	792		N.Y.C.	Jan-21	3,486	2,580
	Feb-21	857	390	1,310	617			Feb-21	2,483	1,967	2,065	535			Feb-21	1,983	2,475
	Mar-21	817	295	1,433	833			Mar-21	3,192	1,581	2,230	1,041			Mar-21	2,149	1,385
	Apr-21	1,396	466	1,251	834			Apr-21	2,770	1,075	3,404	694			Apr-21	2,116	602
	May-21	862	431	1,680	486			May-21	1,417	532	2,776	837			May-21	2,664	678
	Jun-21	653	393	1,426	390			Jun-21	2,396	994	2,144	636			Jun-21	5,791	1,832
	Jul-21							Jul-21							Jul-21		
	Aug-21							Aug-21							Aug-21		
	Sep-21							Sep-21							Sep-21		
	Oct-21							Oct-21							Oct-21		
	Nov-21							Nov-21							Nov-21		
	Dec-21							Dec-21							Dec-21		
NORTH	Jan-21	830	498	3,280	1,220		HUD VL	Jan-21	1,666	1,215	5,917	7,429		LONGIL	Jan-21	4,341	4,976
	Feb-21	405	410	2,654	1,258			Feb-21	1,685	1,148	4,967	2,247			Feb-21	3,899	3,560
	Mar-21	641	125	3,152	2,052			Mar-21	1,013	455	5,555	3,086			Mar-21	4,846	2,196
	Apr-21	1,031	278	3,310	1,622			Apr-21	1,096	411	6,547	5,166			Apr-21	6,288	1,581
	May-21	1,041	164	3,171	1,703			May-21	1,658	425	5,040	8,201			May-21	6,112	1,898
	Jun-21	1,051	294	2,897	1,454			Jun-21	1,758	692	7,862	7,556			Jun-21	6,451	3,532
	Jul-21							Jul-21							Jul-21		
	Aug-21							Aug-21							Aug-21		
	Sep-21							Sep-21							Sep-21		
	Oct-21							Oct-21							Oct-21		
	Nov-21							Nov-21							Nov-21		
	Dec-21							Dec-21							Dec-21		
CENTRL	Jan-21	2,124	938	28,034	1,094		MILLWD	Jan-21	1,368	672	1,820	139		NYISO	Jan-21	27,659	17,816
	Feb-21	1,357	1,102	27,531	954			Feb-21	530	541	1,463	115			Feb-21	19,732	15,526
	Mar-21	2,108	541	24,874	888			Mar-21	731	240	1,732	175			Mar-21	24,164	8,780
	Apr-21	3,179	941	25,006	1,249			Apr-21	775	359	2,106	126			Apr-21	28,658	7,818
	May-21	1,973	708	27,134	433			May-21	1,245	245	1,386	145			May-21	28,758	7,933
	Jun-21	1,508	672	27,029	512			Jun-21	2,049	506	1,203	85			Jun-21	30,385	13,112
	Jul-21							Jul-21							Jul-21		
	Aug-21							Aug-21							Aug-21		
	Sep-21							Sep-21							Sep-21		
	Oct-21							Oct-21							Oct-21		
	Nov-21							Nov-21							Nov-21		
	Dec-21							Dec-21							Dec-21		

# NYISO Multi Hour Block Transactions Monthly Total MWh

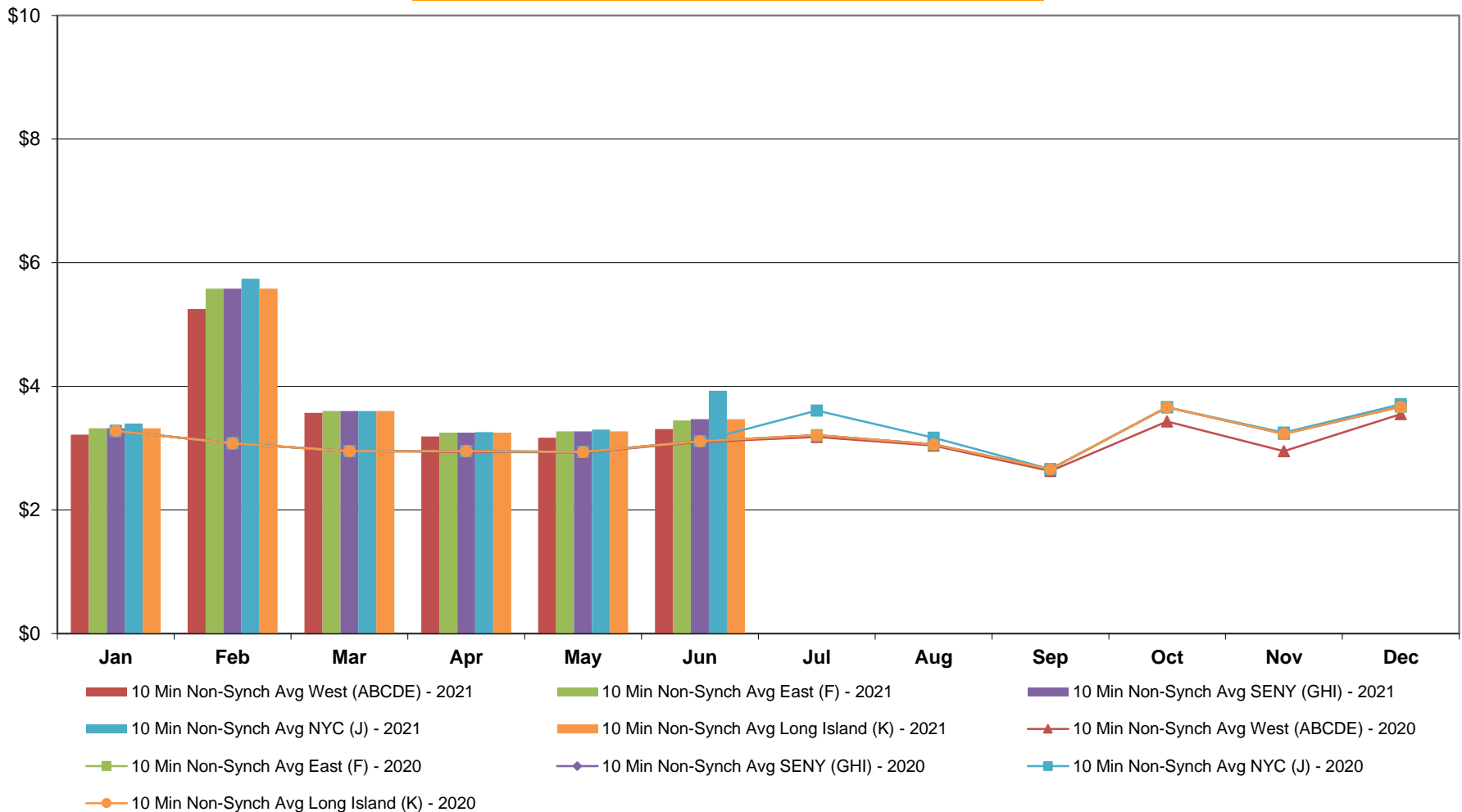




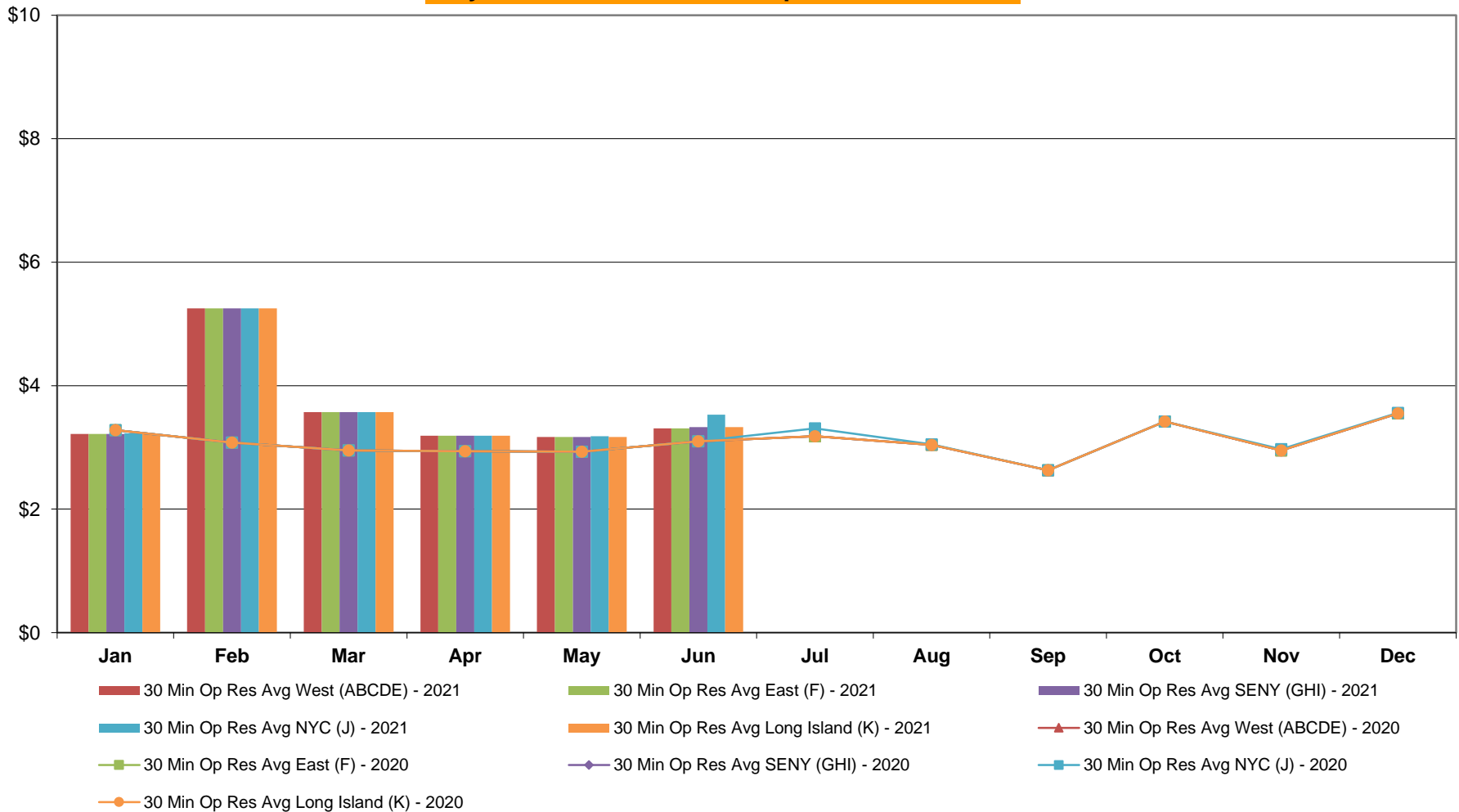
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 10 Min Spin 2020 - 2021**



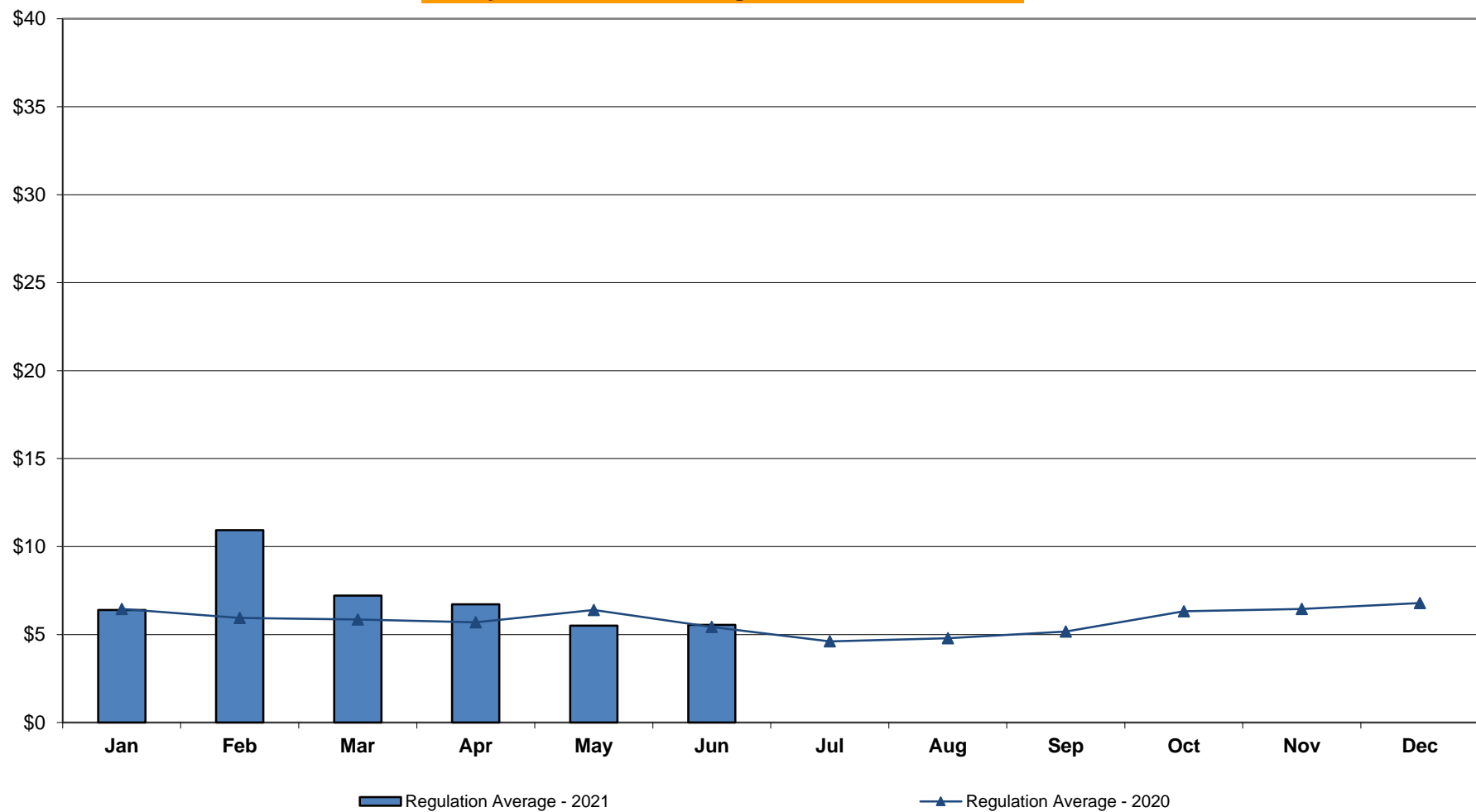
# **NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 10 Min Non-Synch 2020 - 2021**



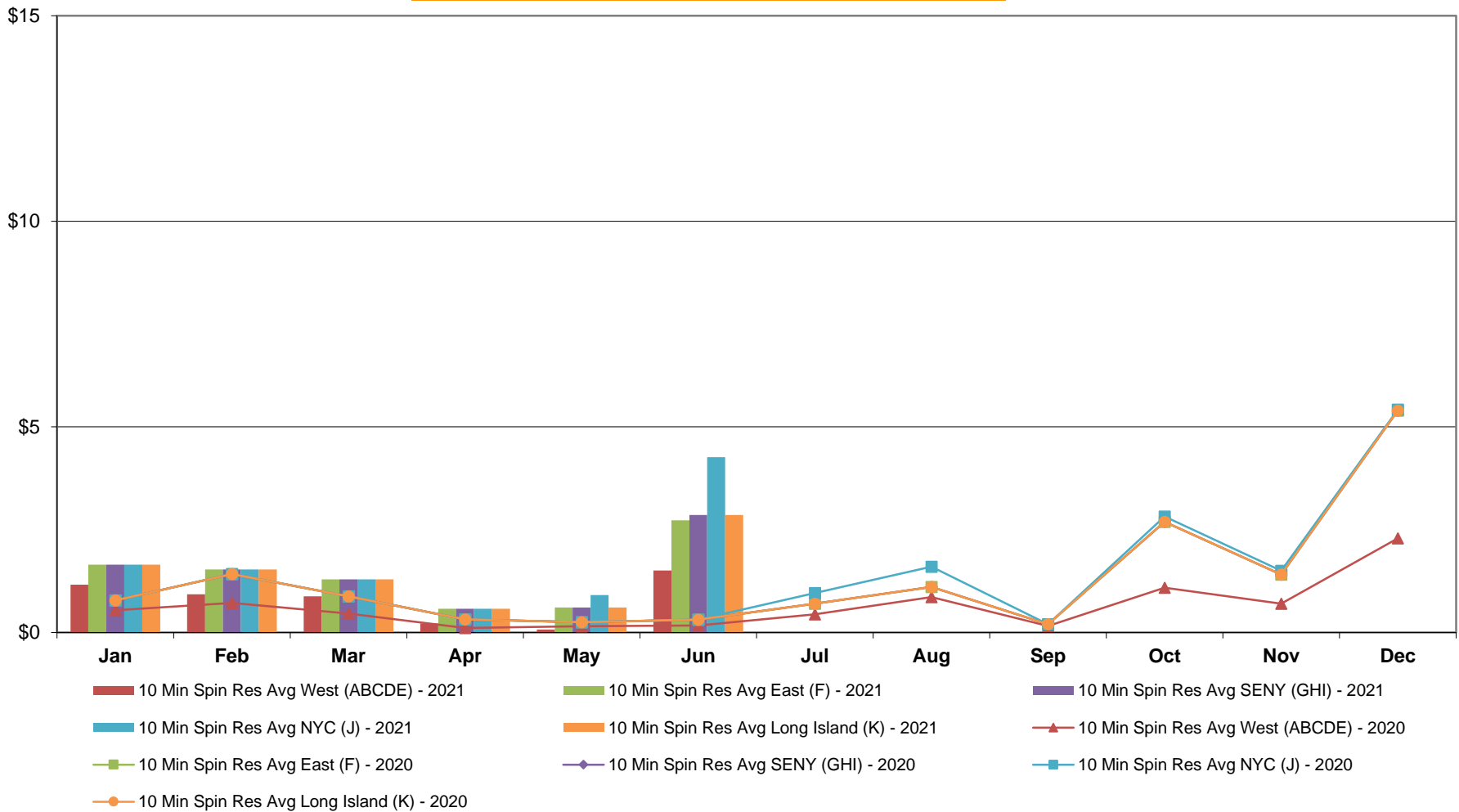
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 30 Min Op Res 2020 - 2021**



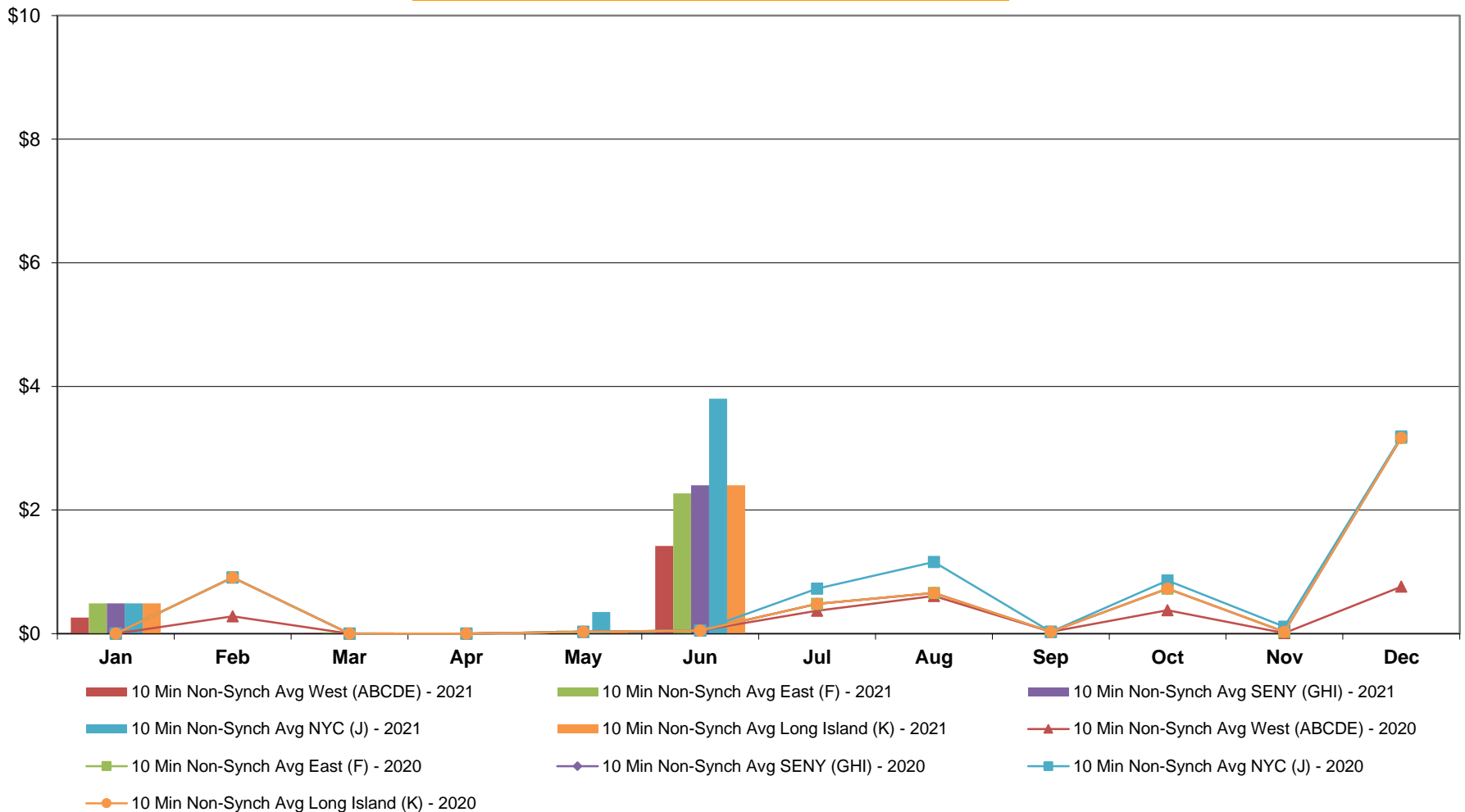
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - Regulation 2020 - 2021**



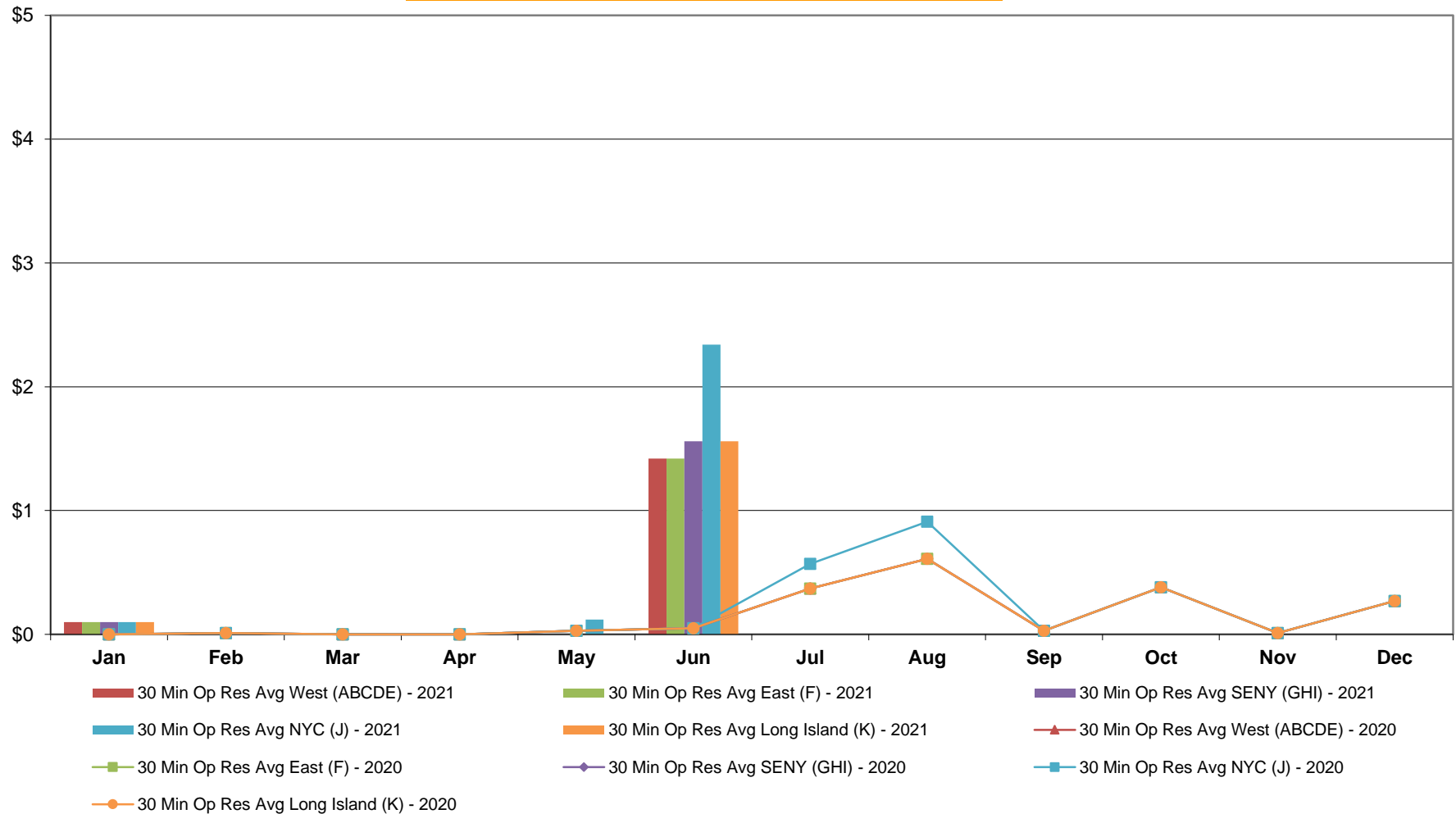
# **NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Spin 2020 - 2021**



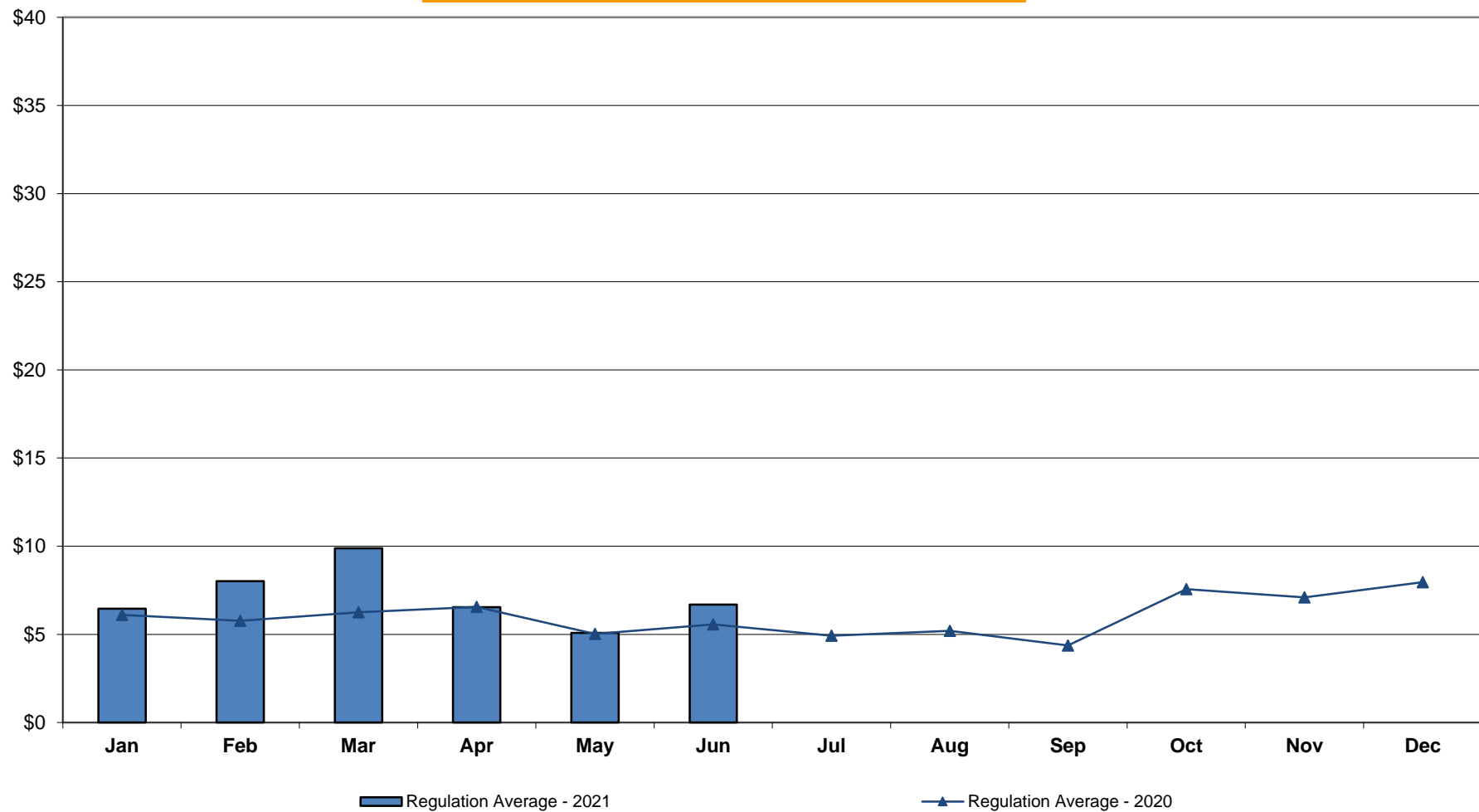
# **NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Non-Synch 2020 - 2021**



# **NYISO Monthly Average Ancillary Service Prices RTC Market - 30 Min Op Res 2020 - 2021**

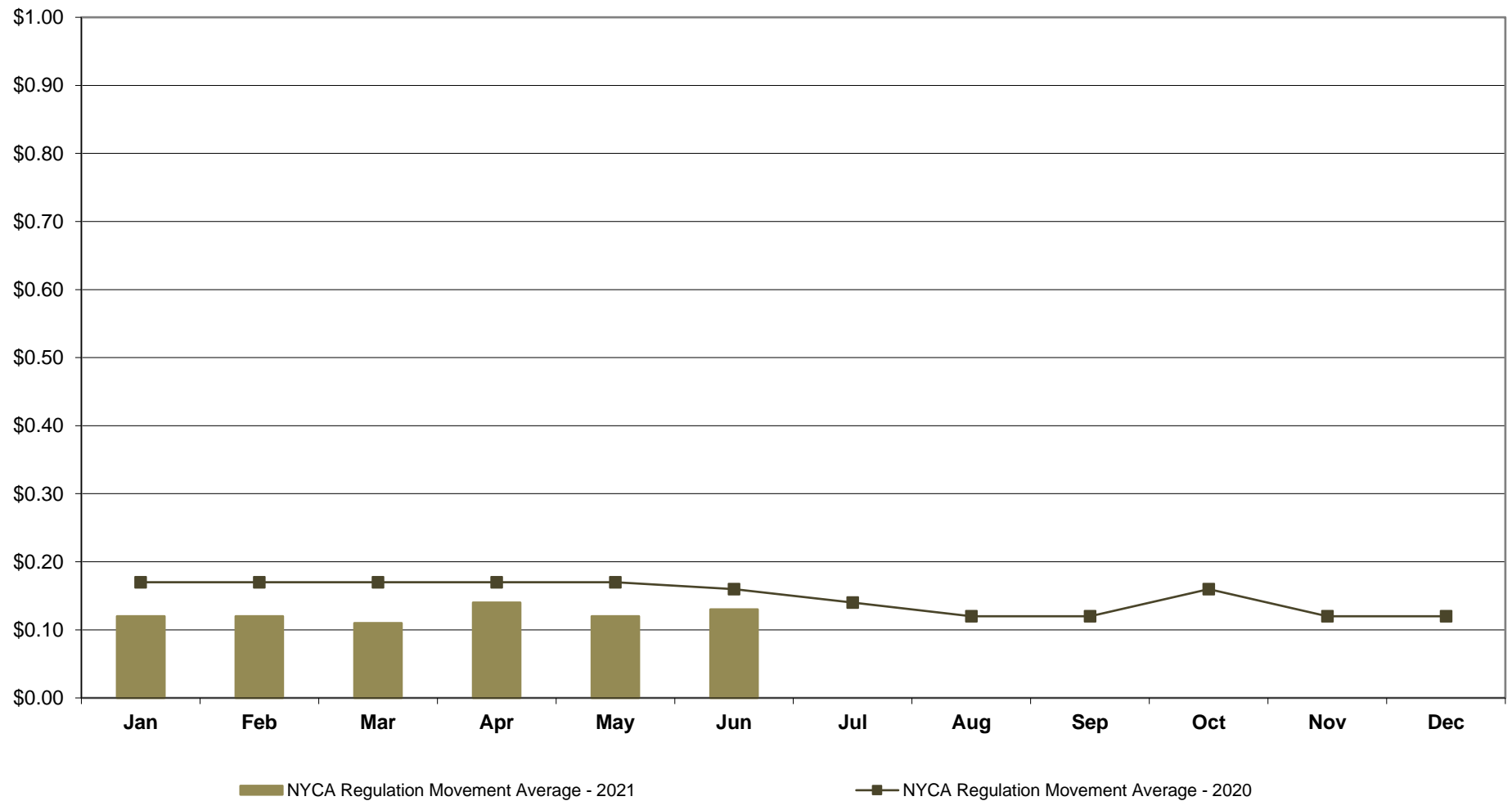


**NYISO Monthly Average Ancillary Service Prices  
RTC Market - Regulation 2020 - 2021**

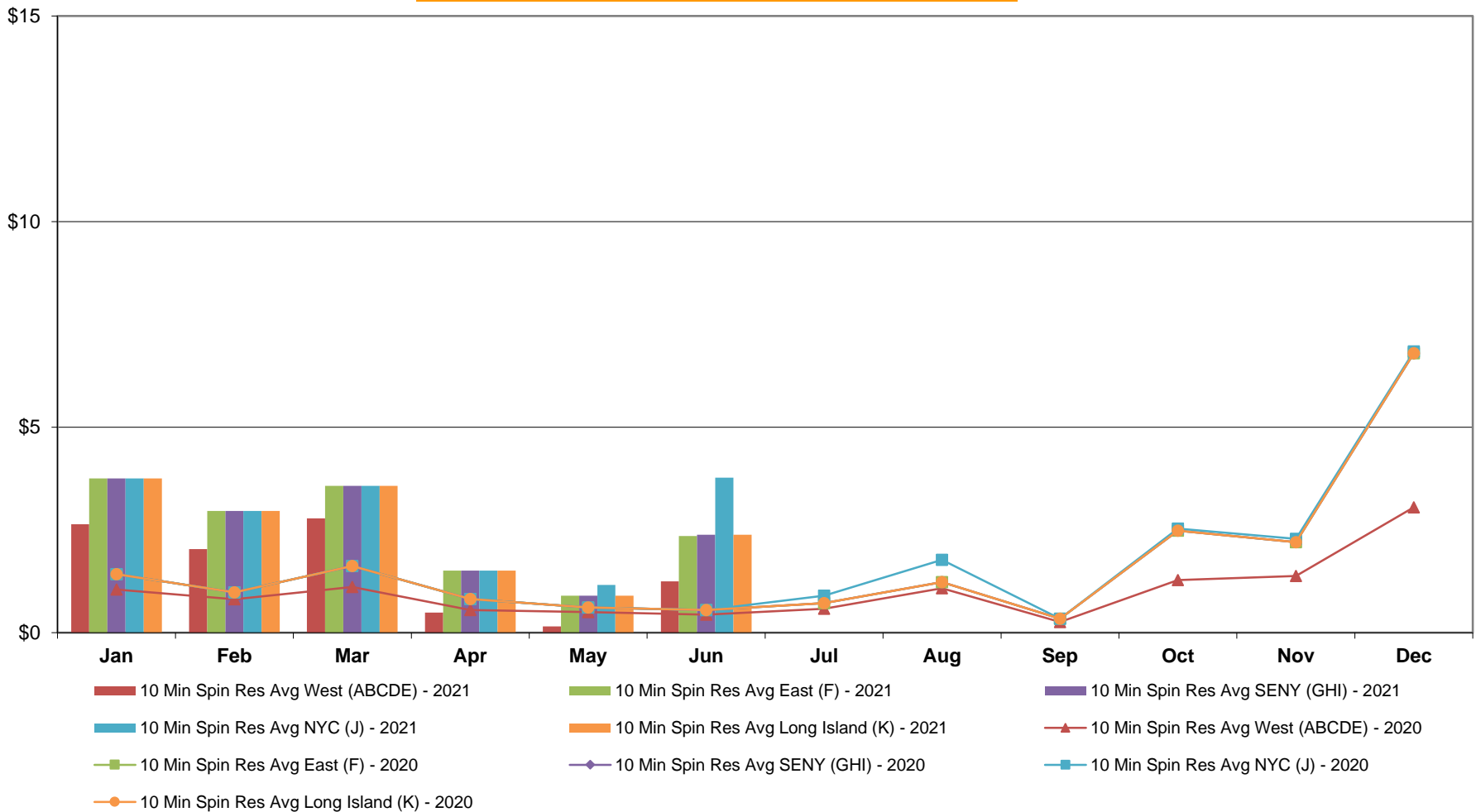




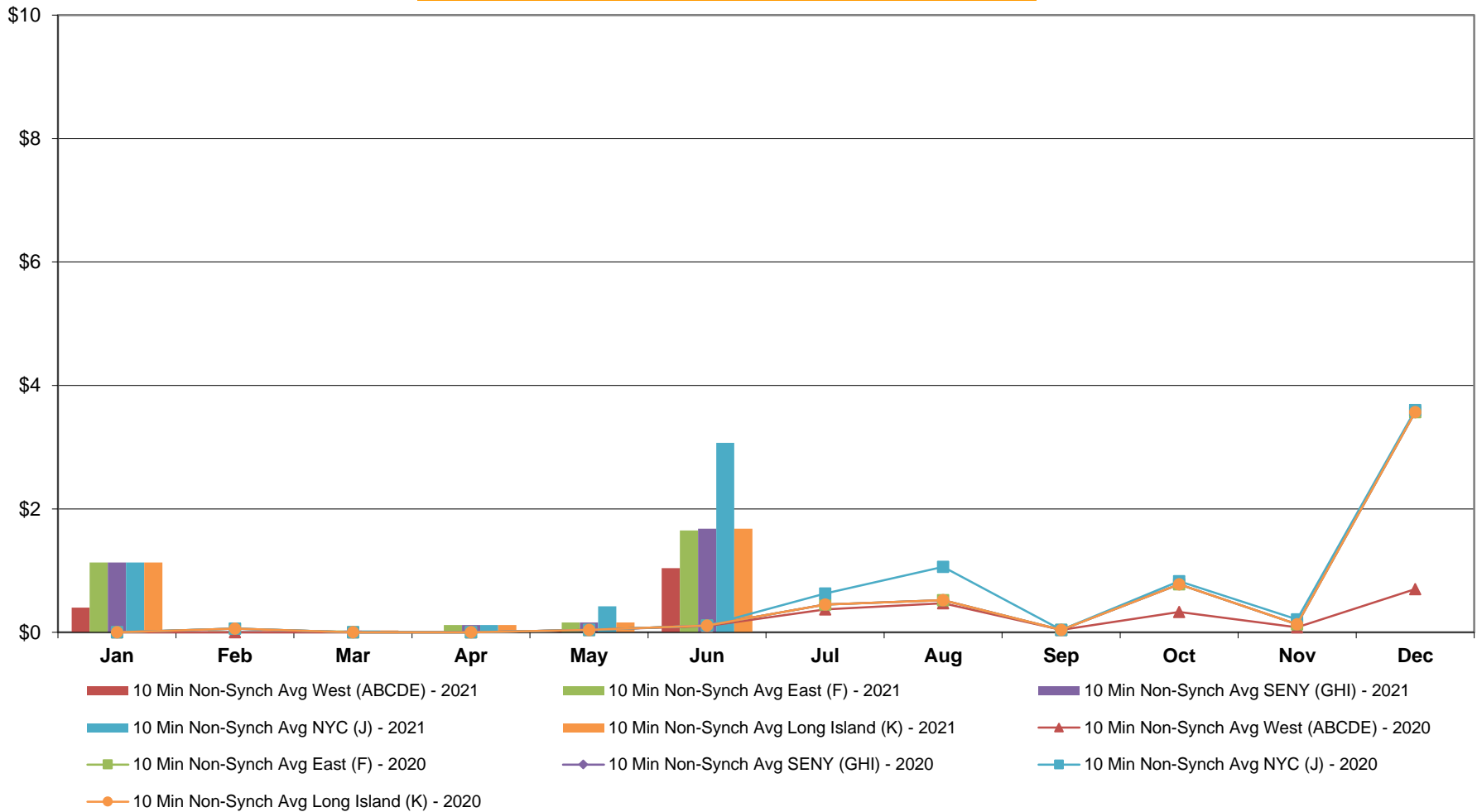
# **NYISO Monthly Average Ancillary Service Prices RTC Market - Regulation Movement 2020 - 2021**



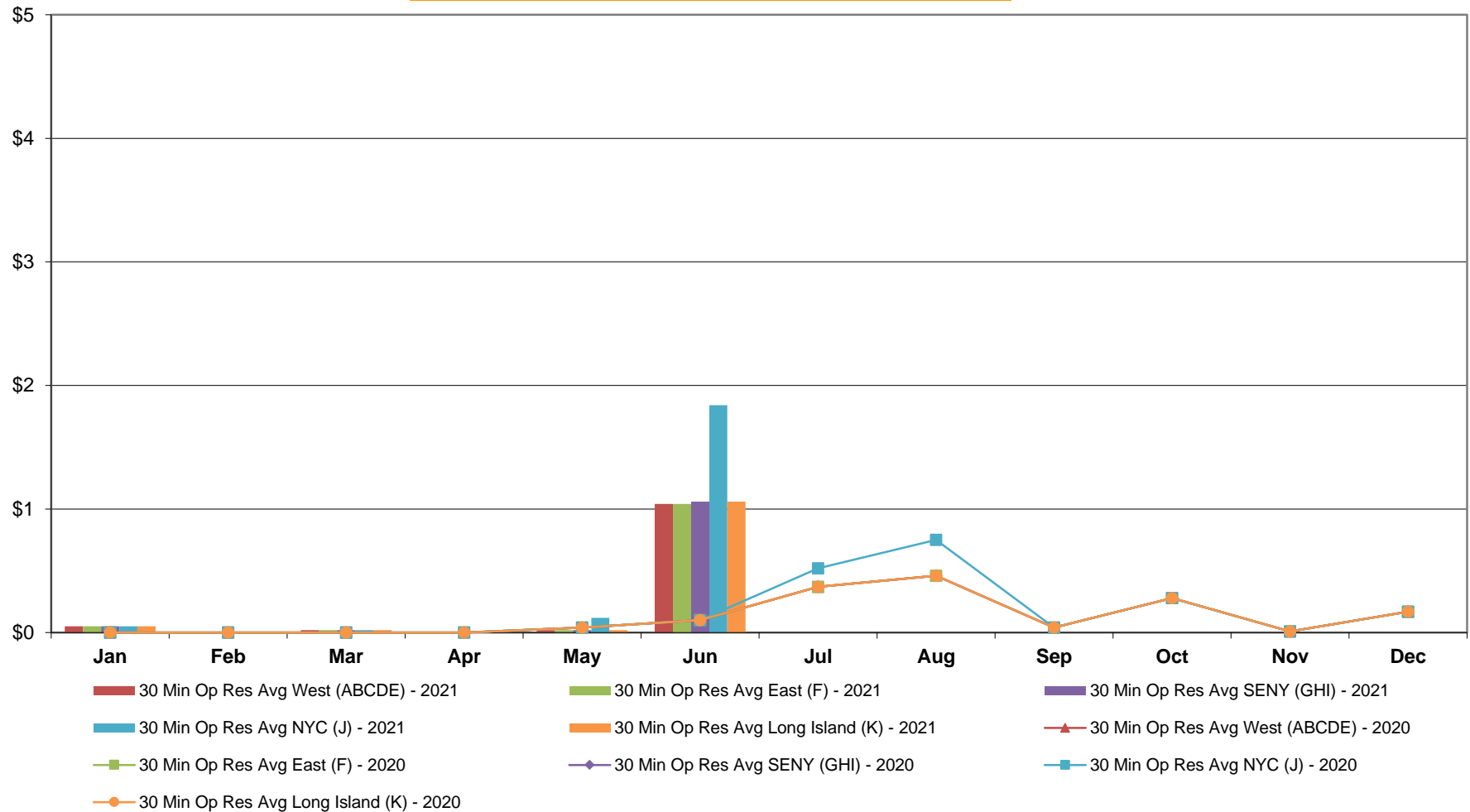
# **NYISO Monthly Average Ancillary Service Prices** **Real Time Market - 10 Min Spin 2020 - 2021**



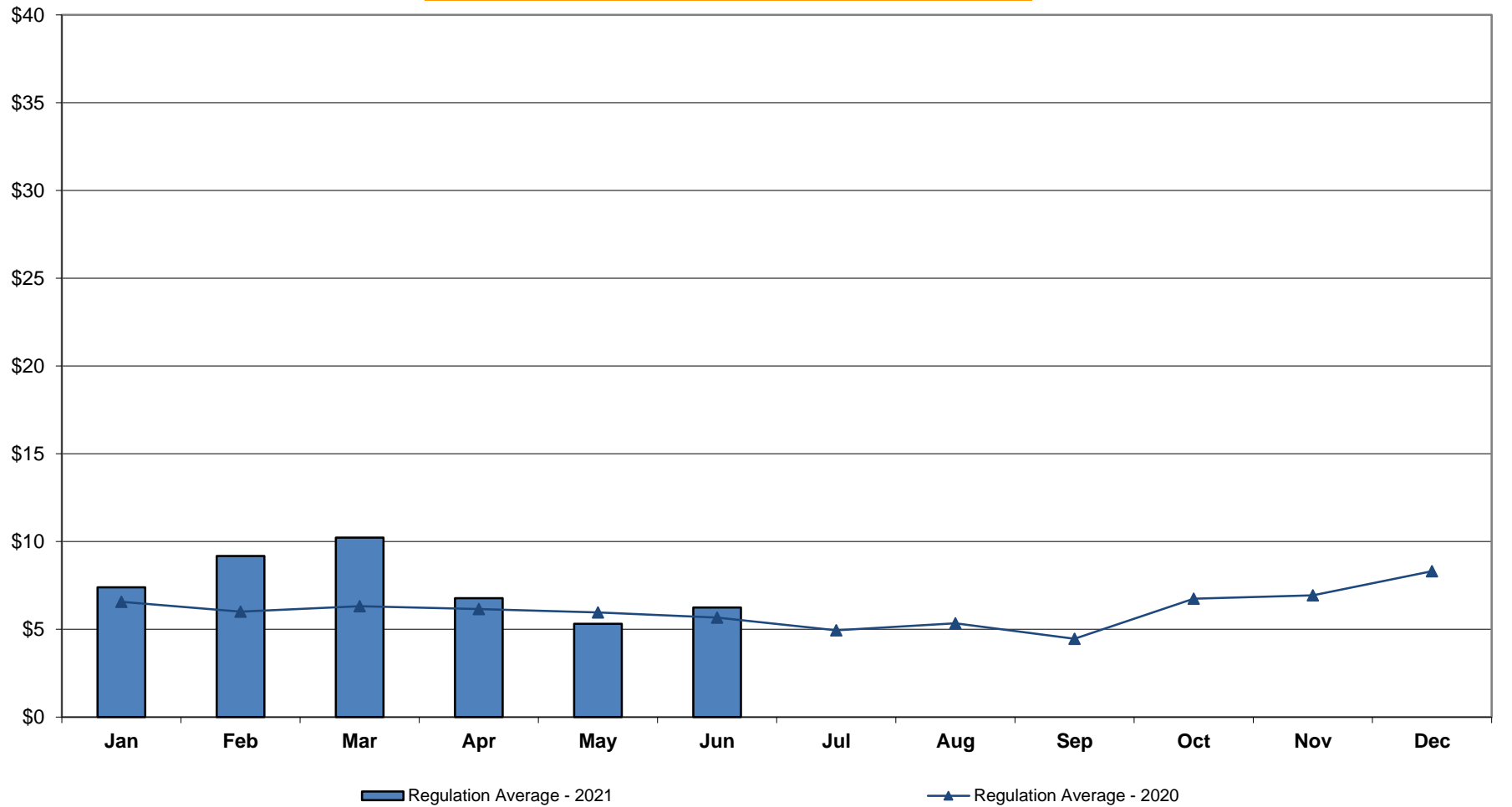
# **NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Non-Synch 2020 - 2021**



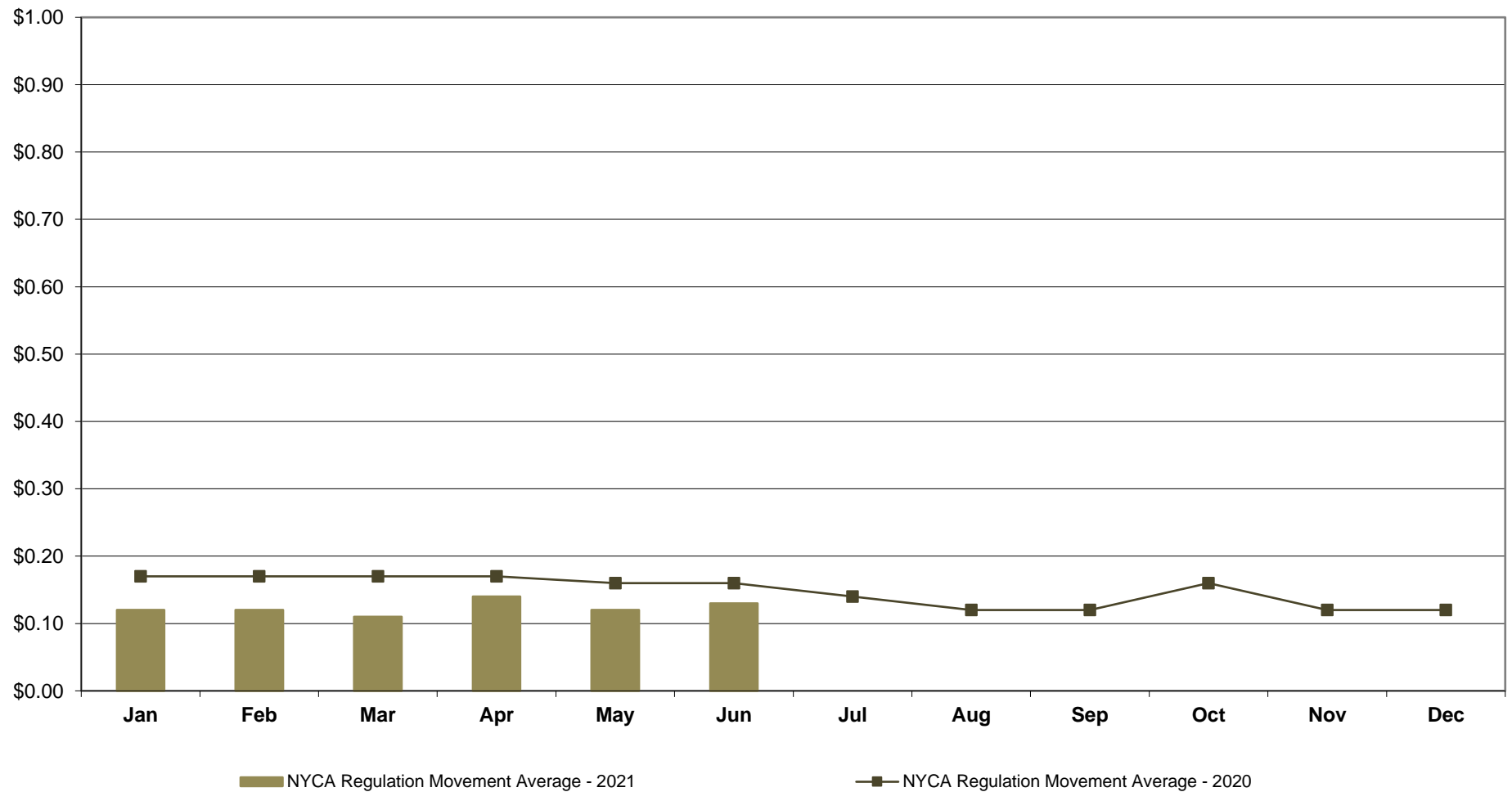
# **NYISO Monthly Average Ancillary Service Prices Real Time Market - 30 Min Op Res 2020 - 2021**



**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - Regulation 2020 - 2021**



# **NYISO Monthly Average Ancillary Service Prices Real Time Market - Regulation Movement 2020 - 2021**



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

<b><u>2021</u></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><u>Day Ahead Market</u></b>												
10 Min Spin Long Island (K)	4.61	7.85	4.46	3.80	3.78	3.91						
10 Min Spin NYC (J)	4.68	8.01	4.46	3.81	3.80	4.38						
10 Min Spin SENY (GHI)	4.61	7.85	4.46	3.80	3.78	3.91						
10 Min Spin East (F)	4.61	7.85	4.46	3.80	3.78	3.89						
10 Min Spin West (ABCDE)	4.01	6.68	4.07	3.56	3.43	3.64						
10 Min Non Synch Long Island (K)	3.32	5.58	3.60	3.25	3.27	3.47						
10 Min Non Synch NYC (J)	3.40	5.74	3.60	3.26	3.30	3.93						
10 Min Non Synch SENY (GHI)	3.32	5.58	3.60	3.25	3.27	3.47						
10 Min Non Synch East (F)	3.32	5.58	3.60	3.25	3.27	3.45						
10 Min Non Synch West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31						
30 Min Long Island (K)	3.22	5.25	3.57	3.19	3.17	3.33						
30 Min NYC (J)	3.23	5.25	3.57	3.19	3.18	3.53						
30 Min SENY (GHI)	3.22	5.25	3.57	3.19	3.17	3.33						
30 Min East (F)	3.22	5.25	3.57	3.19	3.17	3.31						
30 Min West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31						
Regulation	6.40	10.93	7.21	6.72	5.50	5.55						
<b><u>2020</u></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><u>Day Ahead Market</u></b>												
10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	4.96	4.46	5.27
10 Min Spin NYC (J)	3.60	3.23	3.55	3.27	3.48	3.64	4.00	3.74	3.63	4.96	4.48	5.30
10 Min Spin SENY (GHI)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	4.96	4.46	5.27
10 Min Spin East (F)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	4.96	4.46	5.27
10 Min Spin West (ABCDE)	3.57	3.22	3.43	3.25	3.39	3.51	3.55	3.59	3.58	4.21	3.81	4.25
10 Min Non Synch Long Island (K)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	3.66	3.23	3.67
10 Min Non Synch NYC (J)	3.28	3.08	2.95	2.95	2.94	3.17	3.61	3.17	2.66	3.66	3.25	3.71
10 Min Non Synch SENY (GHI)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	3.66	3.23	3.67
10 Min Non Synch East (F)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	3.66	3.23	3.67
10 Min Non Synch West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.43	2.95	3.55
30 Min Long Island (K)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.42	2.95	3.55
30 Min NYC (J)	3.28	3.08	2.95	2.94	2.93	3.10	3.31	3.05	2.63	3.42	2.97	3.56
30 Min SENY (GHI)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.42	2.95	3.55
30 Min East (F)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.42	2.95	3.55
30 Min West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.42	2.95	3.55
Regulation	6.46	5.94	5.86	5.70	6.40	5.44	4.61	4.79	5.17	6.32	6.45	6.79

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

<b><u>2021</u></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><u>RTC Market</u></b>												
10 Min Spin Long Island (K)	1.65	1.53	1.29	0.58	0.61	2.86						
10 Min Spin NYC (J)	1.65	1.53	1.29	0.58	0.91	4.26						
10 Min Spin SENY (GHI)	1.65	1.53	1.29	0.58	0.61	2.86						
10 Min Spin East (F)	1.65	1.53	1.29	0.58	0.61	2.73						
10 Min Spin West (ABCDE)	1.16	0.93	0.88	0.22	0.07	1.51						
10 Min Non Synch Long Island (K)	0.49	0.00	0.02	0.00	0.05	2.40						
10 Min Non Synch NYC (J)	0.49	0.00	0.02	0.00	0.35	3.80						
10 Min Non Synch SENY (GHI)	0.49	0.00	0.02	0.00	0.05	2.40						
10 Min Non Synch East (F)	0.49	0.00	0.02	0.00	0.05	2.27						
10 Min Non Synch West (ABCDE)	0.26	0.00	0.01	0.00	0.00	1.42						
30 Min Long Island (K)	0.10	0.00	0.01	0.00	0.00	1.56						
30 Min NYC (J)	0.10	0.00	0.01	0.00	0.12	2.34						
30 Min SENY (GHI)	0.10	0.00	0.01	0.00	0.00	1.56						
30 Min East (F)	0.10	0.00	0.01	0.00	0.00	1.42						
30 Min West (ABCDE)	0.10	0.00	0.01	0.00	0.00	1.42						
Regulation	6.46	8.02	9.88	6.54	5.08	6.69						
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13						
<b><u>2020</u></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><u>RTC Market</u></b>												
10 Min Spin Long Island (K)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin NYC (J)	0.78	1.46	0.88	0.32	0.26	0.31	0.96	1.60	0.20	2.82	1.50	5.42
10 Min Spin SENY (GHI)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin East (F)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin West (ABCDE)	0.54	0.72	0.46	0.11	0.15	0.17	0.44	0.86	0.16	1.09	0.70	2.29
10 Min Non Synch Long Island (K)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch NYC (J)	0.00	0.95	0.00	0.00	0.04	0.06	0.73	1.16	0.03	0.86	0.11	3.19
10 Min Non Synch SENY (GHI)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch East (F)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch West (ABCDE)	0.00	0.28	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.76
30 Min Long Island (K)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min NYC (J)	0.00	0.01	0.00	0.00	0.03	0.05	0.57	0.91	0.03	0.38	0.01	0.27
30 Min SENY (GHI)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min East (F)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min West (ABCDE)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
Regulation	6.11	5.77	6.25	6.56	5.02	5.56	4.92	5.20	4.37	7.57	7.09	7.96
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.17	0.16	0.14	0.12	0.12	0.16	0.12	0.12

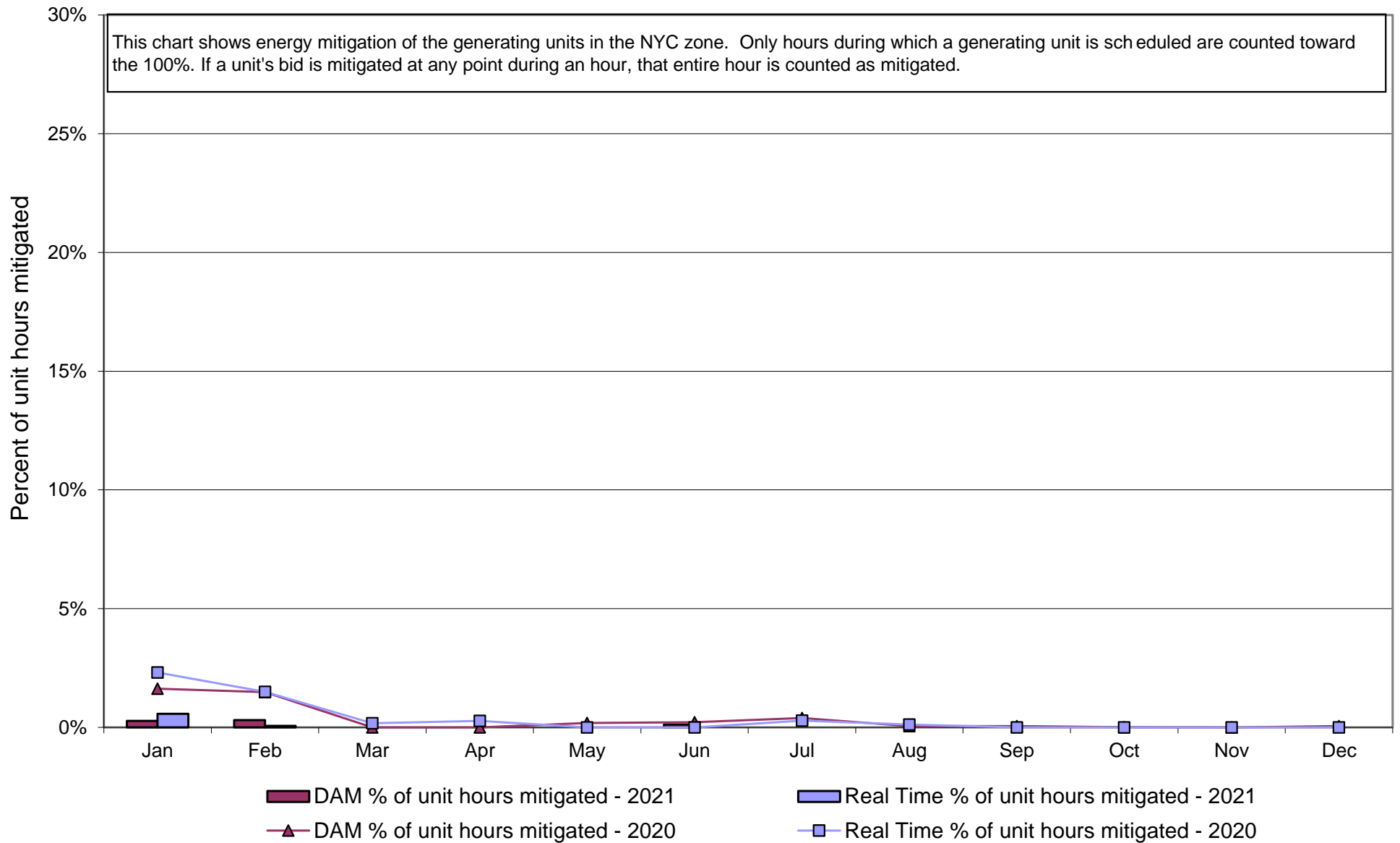


## **NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT**

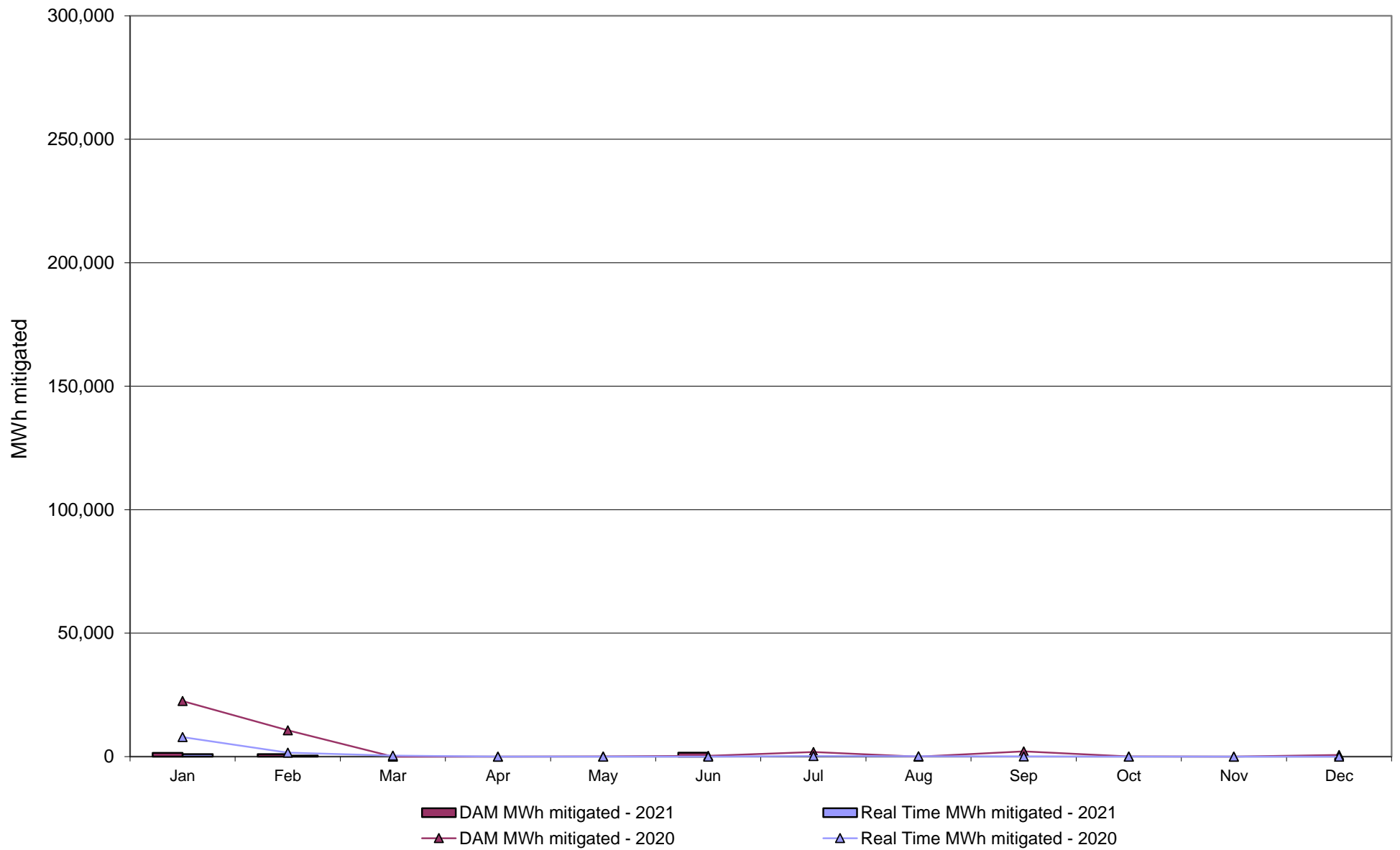
<b><u>2021</u></b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>Real Time Market</u></b>												
10 Min Spin Long Island (K)	3.75	2.96	3.57	1.51	0.90	2.38						
10 Min Spin NYC (J)	3.75	2.96	3.57	1.51	1.16	3.77						
10 Min Spin SENY (GHI)	3.75	2.96	3.57	1.51	0.90	2.38						
10 Min Spin East (F)	3.75	2.96	3.57	1.51	0.90	2.35						
10 Min Spin West (ABCDE)	2.64	2.03	2.78	0.49	0.15	1.25						
10 Min Non Synch Long Island (K)	1.13	0.02	0.03	0.12	0.16	1.68						
10 Min Non Synch NYC (J)	1.13	0.02	0.03	0.12	0.42	3.07						
10 Min Non Synch SENY (GHI)	1.13	0.02	0.03	0.12	0.16	1.68						
10 Min Non Synch East (F)	1.13	0.02	0.03	0.12	0.16	1.65						
10 Min Non Synch West (ABCDE)	0.40	0.00	0.02	0.00	0.02	1.04						
30 Min Long Island (K)	0.05	0.00	0.02	0.00	0.02	1.06						
30 Min NYC (J)	0.05	0.00	0.02	0.00	0.12	1.84						
30 Min SENY (GHI)	0.05	0.00	0.02	0.00	0.02	1.06						
30 Min East (F)	0.05	0.00	0.02	0.00	0.02	1.04						
30 Min West (ABCDE)	0.05	0.00	0.02	0.00	0.02	1.04						
Regulation	7.39	9.17	10.23	6.78	5.31	6.24						
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13						
<b><u>2020</u></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><u>Real Time Market</u></b>												
10 Min Spin Long Island (K)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin NYC (J)	1.42	0.98	1.62	0.82	0.63	0.56	0.90	1.77	0.34	2.53	2.28	6.84
10 Min Spin SENY (GHI)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin East (F)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin West (ABCDE)	1.05	0.81	1.11	0.55	0.50	0.44	0.58	1.08	0.26	1.28	1.38	3.05
10 Min Non Synch Long Island (K)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch NYC (J)	0.00	0.06	0.00	0.00	0.07	0.12	0.63	1.06	0.04	0.83	0.21	3.60
10 Min Non Synch SENY (GHI)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch East (F)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.47	0.04	0.33	0.08	0.70
30 Min Long Island (K)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min NYC (J)	0.00	0.00	0.00	0.00	0.04	0.10	0.52	0.75	0.04	0.28	0.01	0.17
30 Min SENY (GHI)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min East (F)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
Regulation	6.57	6.00	6.32	6.16	5.96	5.67	4.94	5.34	4.46	6.75	6.93	8.31
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.16	0.16	0.14	0.12	0.12	0.16	0.12	0.12

## NYISO In City Energy Mitigation - AMP (NYC Zone) 2020 - 2021

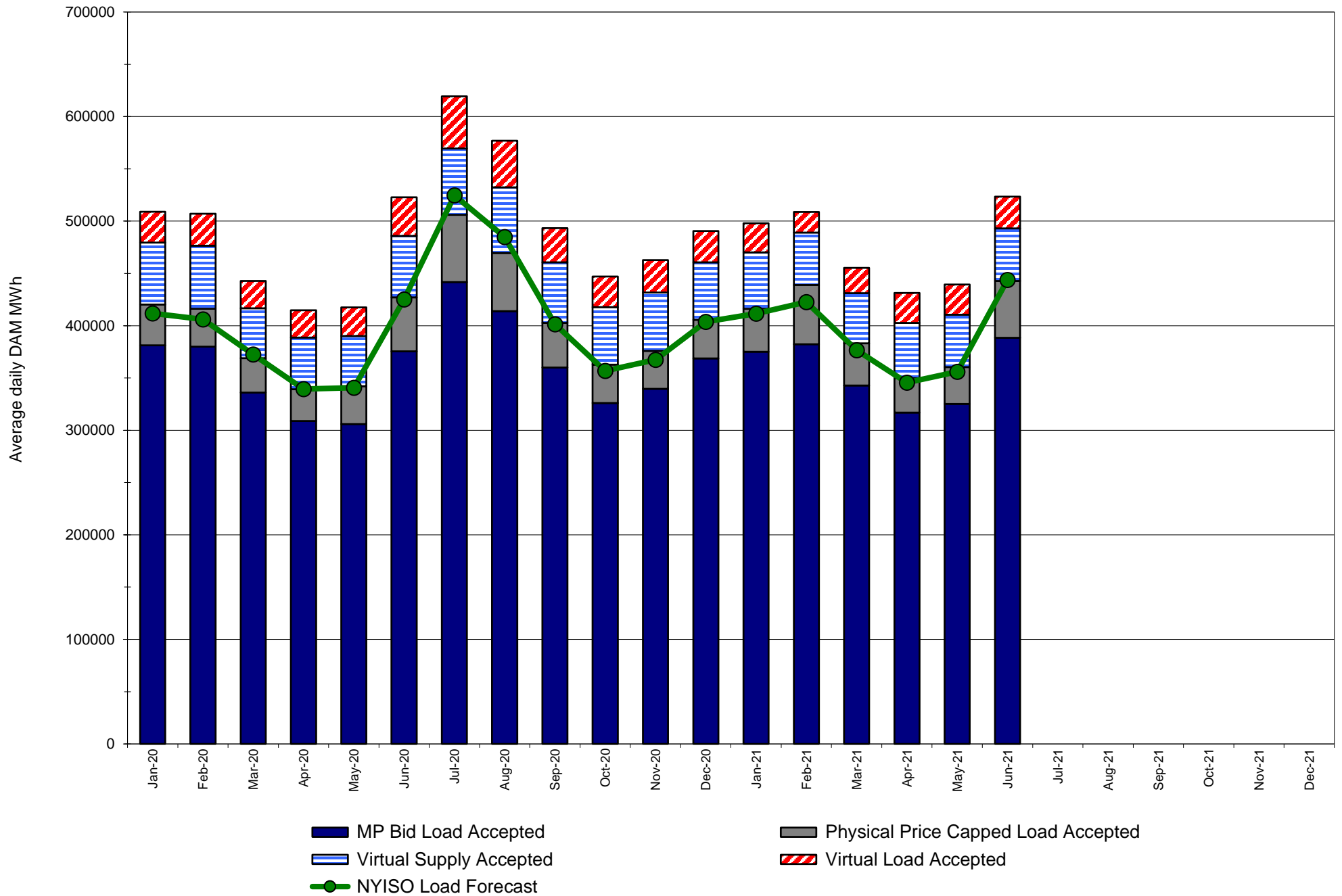
### Percentage of committed unit-hours mitigated



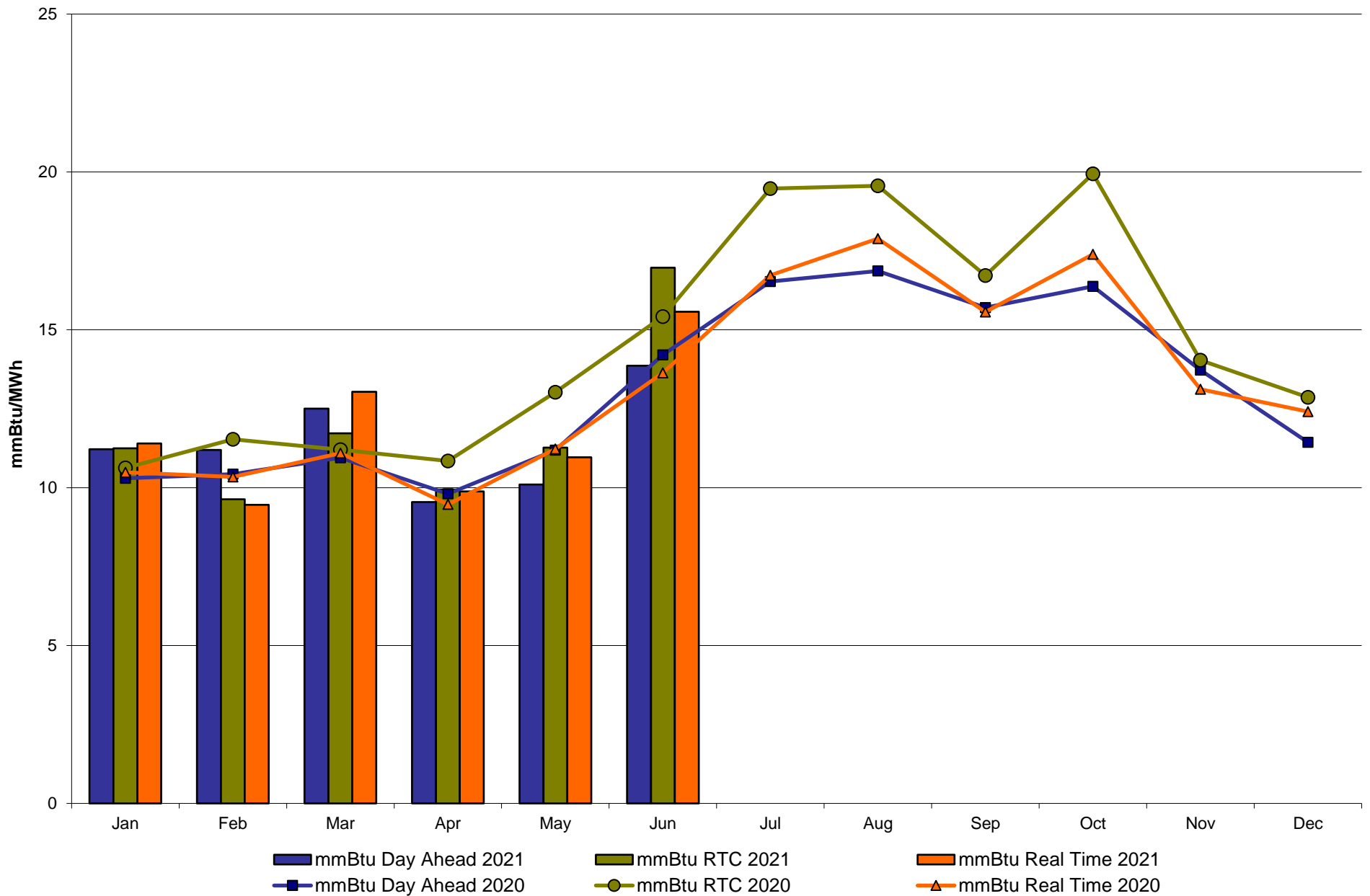
**NYISO In City Energy Mitigation (NYC Zone) 2020 - 2021**  
**Monthly megawatt hours mitigated**



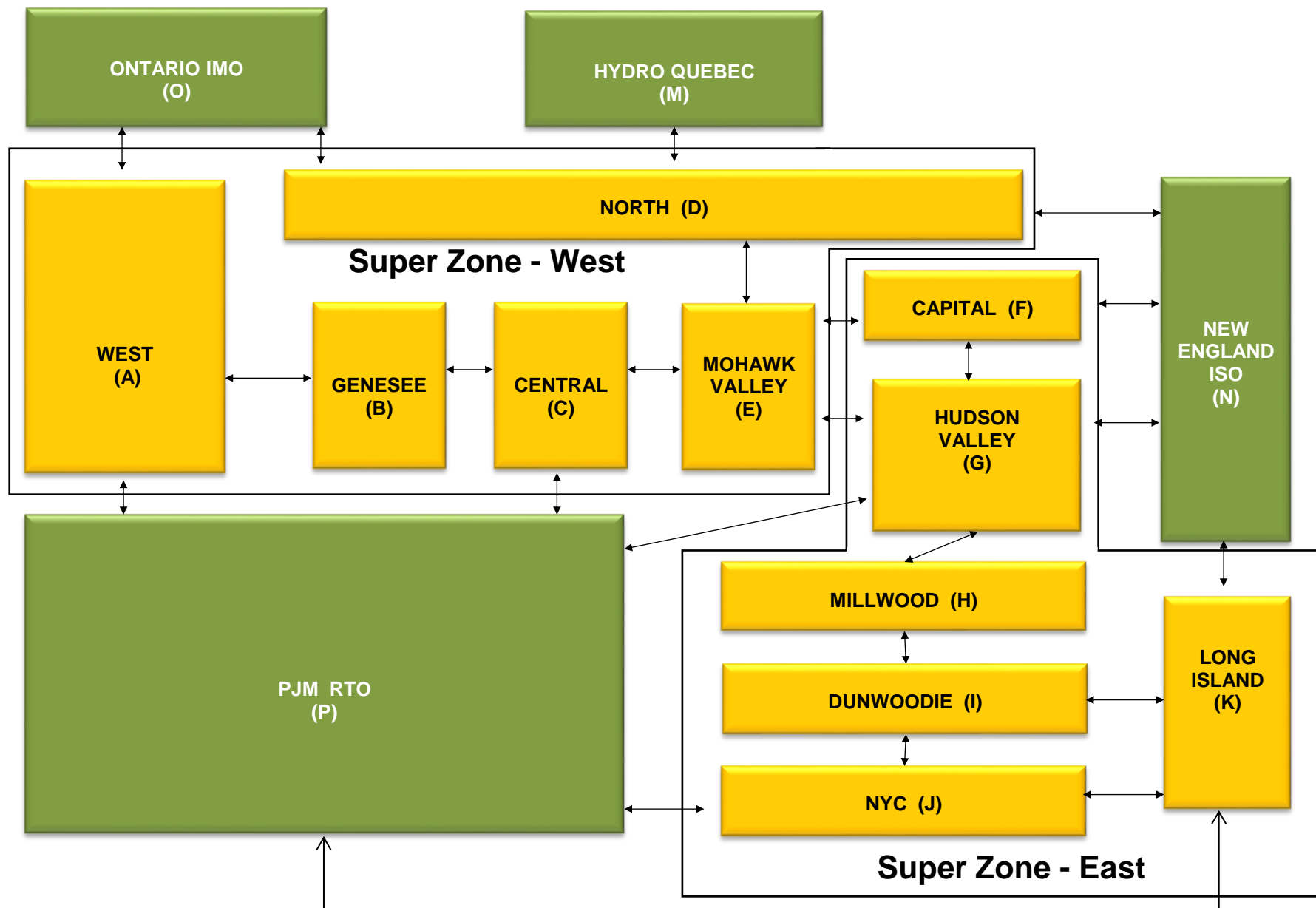
# NYISO Average Daily DAM Load Bid Summary



# Monthly Implied Heat Rate 2020-2021



# NYISO LBMP ZONES



### Billing Codes for Chart C

<u>Chart - C Category Name</u>	<u>Billing Code</u>	<u>Billing Category Name</u>
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

### Recently Issued Orders

Filing Date	Filing Summary (Order Issued)	Order Date	Order Summary	Docket Number
04/15/2021	NYISO-National Grid joint Section 205 joint filing of a Transmission Project Interconnection Agreement among the NYISO, National Grid, and LS Power Grid New York Corporation I	06/04/2021	Letter order accepted the submission, effective 4/2/21 as requested	ER21-1687-000
04/23/2021	NYISO filing of an implementation agreement with Helix Ravenswood regarding recovery of its costs to generate electric energy using fuel oil in lieu of natural gas in furtherance of New York State Reliability Council Local Reliability Rule G.2	06/14/2021	Letter order accepted the submission, effective 5/15/21 as requested	ER21-1754-000
04/19/2021	NYISO-Transco, joint filing of an Engineering, Procurement & Construction Agreement among NY Transco, Holcim and NYISO	06/15/2021	Letter order accepted the submission, effective 4/2/21 as requested	ER21-1710-000
5/25/2021	NYISO compliance notice of June 8, 2021 as the effective date for Services Tariff revisions to enhance operational control of solar resources	06/17/2021	Letter order accepted NYISO filing, effective 6/8/21 as requested	ER21-892-000
04/28/2021	NYISO-NMPC joint Section 205 filing of a Small Generator Interconnection Agreement among NYISO, National Grid, and SunEast Skyline Solar	06/22/2021	Letter order accepted the submission, effective 4/15/21 as requested	ER21-1784-000
02/02/2021, 04/07/2021	NYISO section 205 filing and deficiency response to tariff revisions addressing the process for procuring Operating Reserves and to establish a process for procuring Supplemental Reserves	06/23/2021	Order accepted the NYISO's proposed Operating Reserve Demand Curve enhancements and rejected the NYISO's supplemental reserves proposal, and directed submittal of a further compliance filing	ER21-1018-000, 001
05/14/2021	NYISO-NYSEG Joint section 205 filing of a Small Generator Interconnection Agreement among NYISO, NYSEG, and Puckett Solar	07/12/2021	Letter order accepted the submission, effective 4/30/21 as requested	ER21-1911-000

### Recently Submitted Filings



FINAL

<b>Filing Date</b>	<b>Filing Summary</b>	<b>Docket Number</b>
06/07/2021	NYISO compliance notice of a delayed effective date establishing a June 10, 2021 effective date for tariff revisions to implement Southeastern New York Reserve enhancements	ER21-625-002
06/07/2021	NYISO filing of post-technical conference comments on principles and best practices for credit risk management in organized wholesale electricity markets	AD20-6-000, AD21-6-000
06/07/2021	ISO/RTO Council filing of post technical conference comments on coordination and information sharing	AD20-6-000, AD21-6-000
06/08/2021	NYISO section 205 filing of tariff revisions reflecting the results of its post-ICAP DCR review of exempt renewable technologies and a revised definition of Exempt Renewable Technologies as defined in the Market Services Tariff	ER21-2098-000
06/08/2021	NYISO compliance notice of a further delayed effective date establishing a June 17, 2021 effective date for tariff revisions to implement Southeastern New York Reserve enhancements	ER21-625-003
06/09/2021	NYISO-National Grid joint filing of a Large Generator Interconnection Agreement among NYISO, National Grid and Ball Hill Wind Energy	ER21-2106-000
06/09/2021	NYISO filing of an executed Operating Agreement between the NYISO and LS Power Grid New York Corporation I	ER21-2104-000
06/09/2021	NYISO section 205 filing of an executed Operating Agreement between the NYISO and NextEra Energy Transmission New York	ER21-2105-000
06/24/2021	NYISO-NYPA joint section 205 filing of an executed Engineering, Procurement, and Construction Agreement among the NYISO, NYPA and New York Transco	ER21-2197-000
06/29/2021	NYISO filing of a notice of effective date and compliance filing of tariff language relating to Operating Reserve Demand Curves	ER21-1018-002
06/30/2021	NYISO-National Grid Joint Section 205 filing of a Small Generator Interconnection Agreement among NYISO, National Grid and Duke Energy Renewables Solar for the North Country Solar Project	ER21-2288-000
07/01/2021	NYISO Section 205 filing of tariff revisions to change the Regulation Movement Multiplier factor in the Services Tariff from thirteen to eight.	ER21-2326-000
07/15/2021	NYISO filing of a doc-less motion to intervene re: the Joint Federal-State Task Force on Electric Transmission	AD21-15-000
07/16/2021	NYISO Motion to Intervene and Comments on Viridity waiver request NYISO tariff that required a Responsible Interface Party to provide performance data into the NYISO's DRIS in SCR	ER21-2395-000
07/19/2021	NYISO compliance re: Distributed Energy Resource ("DER") aggregation participation in RTO/ISO markets directed by FERC Order No. 2222	ER21-2460-000, RM18-9-2021
07/19/2021	NYISO filing of a report responding to the Commission's questions on Hybrid Storage Resources	AD20-9-000

# Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system

