

Market Operations Report

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SENIOR VICE PRESIDENT – MARKET STRUCTURES, NYISO

Business Issues Committee Meeting

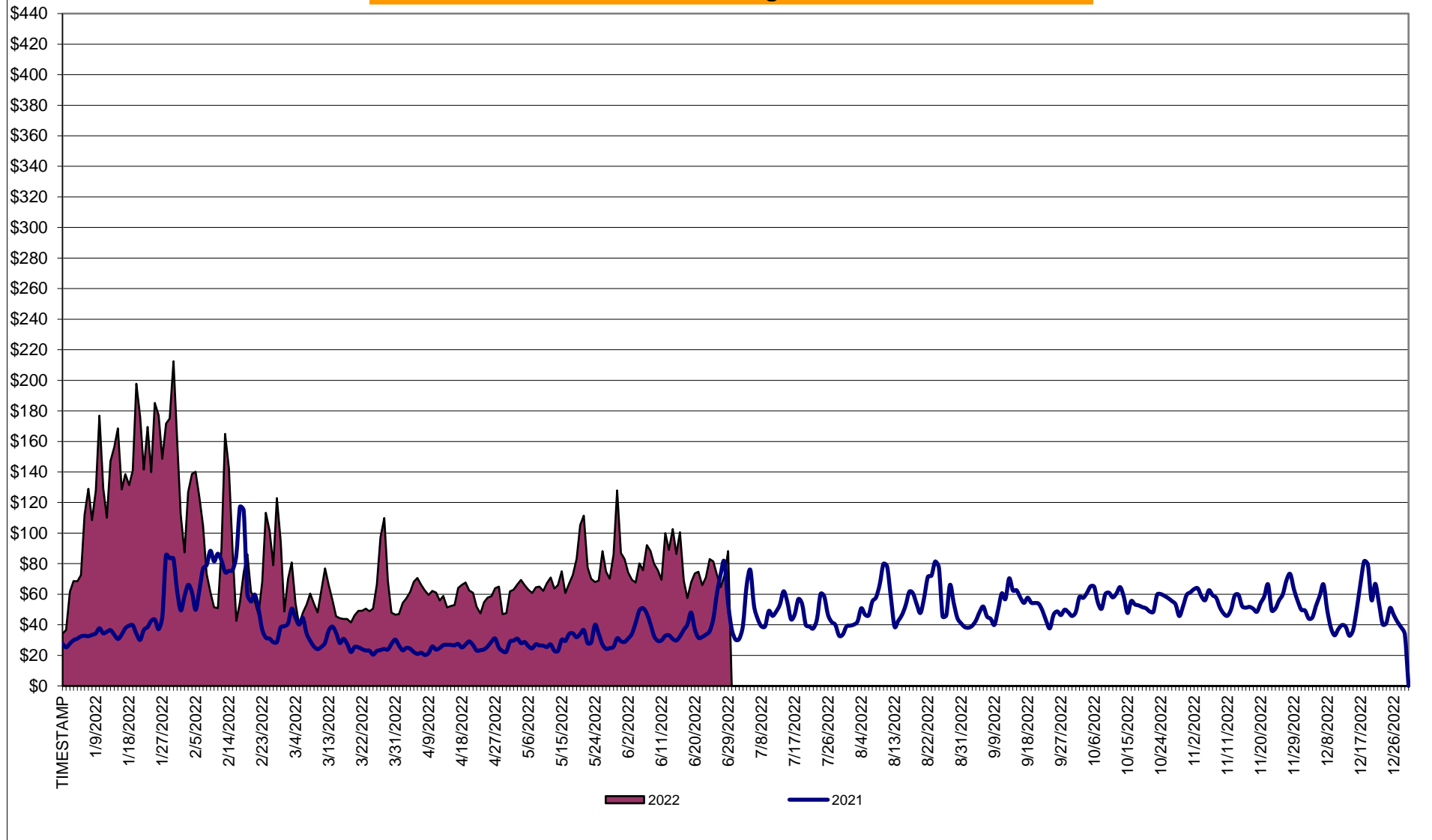
July 13, 2022 Rensselaer, NY

Market Performance Highlights

June 2022

- LBMP for June is \$76.72/MWh; higher than \$70.60/MWh in May 2022 and \$39.37/MWh in June 2021.
 - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are higher compared to May.
- June 2022 average year-to-date monthly cost of \$87.37/MWh is a 115% increase from \$40.59/MWh in June 2021.
- Average daily sendout is 422 GWh/day in June; higher than 372 GWh/day in May 2022 and lower than 458 GWh/day in June 2021.
- Natural gas prices are lower and distillate prices are mixed compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$6.91/MMBtu, down from \$7.39/MMBtu in May.
 - Natural gas prices (Transco Z6 NY) are up 164.5% year-over-year.
 - Jet Kerosene Gulf Coast was \$30.68/MMBtu, up from \$29.17/MMBtu in May.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$31.30/MMBtu, down from \$32.97/MMBtu in May.
 - Distillate prices are up 115.4% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.61)/MWh; lower than (\$0.05)/MWh in May.
 - Local Reliability Share is \$0.46/MWh, lower than \$0.60/MWh in May.
 - Statewide Share is (\$1.07)/MWh, lower than (\$0.65)/MWh in May.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than May.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*
2021 Annual Average \$47.59/MWh
June 2021 YTD Average \$40.59/MWh
June 2022 YTD Average \$87.37/MWh



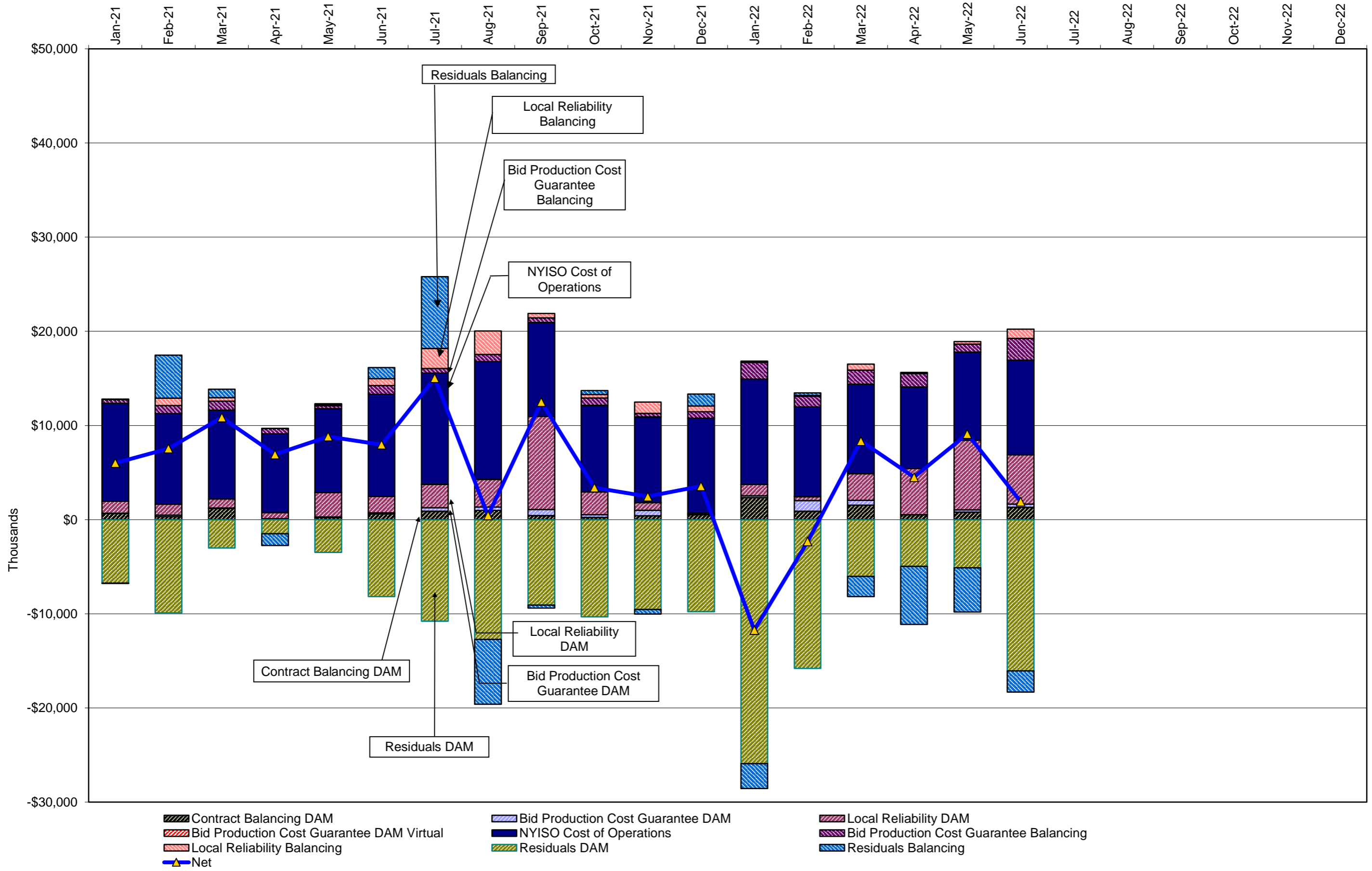
* Excludes ICAP payments.

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

| 2022 | <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 | | | | | | |
| NTAC | 1.43 | 0.95 | 1.48 | 1.17 | 2.46 | 2.07 | | | | | | |
| Reserve | 1.26 | 1.21 | 0.83 | 0.81 | 0.74 | 0.66 | | | | | | |
| Regulation | 0.27 | 0.19 | 0.17 | 0.12 | 0.13 | 0.15 | | | | | | |
| NYISO Cost of Operations | 0.73 | 0.72 | 0.74 | 0.74 | 0.74 | 0.75 | | | | | | |
| FERC Fee Recovery | 0.07 | 0.08 | 0.09 | 0.10 | 0.09 | 0.08 | | | | | | |
| Uplift | (1.50) | (1.73) | (0.09) | (0.36) | (0.05) | (0.61) | | | | | | |
| Uplift: Local Reliability Share | 0.09 | 0.04 | 0.27 | 0.43 | 0.60 | 0.46 | | | | | | |
| Uplift: Statewide Share | (1.59) | (1.77) | (0.36) | (0.79) | (0.65) | (1.07) | | | | | | |
| Voltage Support and Black Start | 0.42 | 0.41 | 0.43 | 0.43 | 0.43 | 0.43 | | | | | | |
| Avg Monthly Cost | 137.41 | 95.82 | 60.34 | 59.38 | 75.07 | 80.17 | | | | | | |
| Avg YTD Cost | 137.49 | 118.36 | 100.65 | 91.92 | 88.82 | 87.37 | | | | | | |
| TSA \$ per NYC MWh | 0.00 | 2.98 | 0.00 | 0.00 | 0.11 | 0.00 | | | | | | |
| 2021 | <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 | 45.16 | 55.48 | 47.68 | 52.97 | 53.92 | 47.99 |
| NTAC | 1.35 | 1.20 | 1.26 | 1.54 | 2.09 | 2.05 | 2.01 | 1.37 | 1.23 | 1.67 | 2.03 | 1.40 |
| Reserve | 0.49 | 0.81 | 0.57 | 0.56 | 0.54 | 0.45 | 0.44 | 0.44 | 0.50 | 0.75 | 0.70 | 0.57 |
| Regulation | 0.07 | 0.13 | 0.09 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.09 | 0.13 | 0.15 | 0.11 |
| NYISO Cost of Operations | 0.74 | 0.74 | 0.74 | 0.74 | 0.76 | 0.76 | 0.76 | 0.76 | 0.75 | 0.74 | 0.75 | 0.73 |
| FERC Fee Recovery | 0.08 | 0.09 | 0.09 | 0.11 | 0.10 | 0.08 | 0.07 | 0.06 | 0.08 | 0.09 | 0.09 | 0.08 |
| Uplift | (0.31) | (0.15) | 0.11 | (0.12) | (0.19) | (0.50) | (0.09) | (0.81) | 0.00 | (0.59) | (0.58) | (0.48) |
| Uplift: Local Reliability Share | 0.09 | 0.15 | 0.11 | 0.06 | 0.22 | 0.17 | 0.30 | 0.33 | 0.78 | 0.23 | 0.16 | 0.05 |
| Uplift: Statewide Share | (0.40) | (0.30) | 0.00 | (0.18) | (0.41) | (0.68) | (0.39) | (1.14) | (0.78) | (0.81) | (0.74) | (0.53) |
| Voltage Support and Black Start | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.43 | 0.44 | 0.42 |
| Avg Monthly Cost | 40.61 | 66.87 | 31.81 | 26.06 | 29.45 | 42.65 | 48.79 | 57.73 | 50.70 | 56.11 | 57.43 | 50.76 |
| Avg YTD Cost | 40.69 | 52.99 | 46.57 | 42.41 | 40.10 | 40.59 | 42.05 | 44.63 | 45.34 | 46.35 | 47.29 | 47.59 |
| TSA \$ per NYC MWh | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 0.90 | 0.93 | 0.24 | 0.56 | 0.39 | 0.10 | 0.00 |

* Excludes ICAP payments.
Market Mitigation and Analysis
Prepared: 7/12/2022 2:07 PM

NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through June 30, 2022



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>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| Day Ahead Market MWh | 14,327,101 | 12,477,485 | 12,137,757 | 10,992,578 | 12,176,102 | 12,945,740 | | | | | | |
| DAM LSE Internal LBMP Energy Sales | 57% | 56% | 59% | 56% | 55% | 60% | | | | | | |
| DAM External TC LBMP Energy Sales | 7% | 8% | 3% | 5% | 6% | 3% | | | | | | |
| DAM Bilateral - Internal Bilaterals | 28% | 28% | 29% | 31% | 31% | 29% | | | | | | |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals | 4% | 4% | 4% | 5% | 4% | 4% | | | | | | |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 2% | 2% | 2% | 2% | 2% | 2% | | | | | | |
| DAM Bilateral - Wheel Through Bilaterals | 2% | 2% | 2% | 2% | 2% | 2% | | | | | | |
| Balancing Energy Market MWh | 942,823 | 742,449 | 758,386 | 772,666 | 378,503 | 464,231 | | | | | | |
| Balancing Energy LSE Internal LBMP Energy Sales | 88% | 83% | 76% | 60% | 65% | 66% | | | | | | |
| Balancing Energy External TC LBMP Energy Sales | 16% | 19% | 24% | 33% | 32% | 36% | | | | | | |
| Balancing Energy Bilateral - Internal Bilaterals | 1% | 2% | 2% | 0% | 5% | 2% | | | | | | |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0% | 0% | 0% | 0% | 2% | 2% | | | | | | |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 4% | 9% | 8% | 7% | 9% | 8% | | | | | | |
| Balancing Energy Bilateral - Wheel Through Bilaterals | -9% | -13% | -10% | -1% | -12% | -14% | | | | | | |
| Transactions Summary | | | | | | | | | | | | |
| LBMP | 67% | 66% | 65% | 62% | 63% | 64% | | | | | | |
| Internal Bilaterals | 26% | 27% | 27% | 29% | 30% | 28% | | | | | | |
| Import Bilaterals | 3% | 4% | 4% | 4% | 4% | 4% | | | | | | |
| Export Bilaterals | 2% | 2% | 2% | 2% | 2% | 2% | | | | | | |
| Wheels Through | 1% | 1% | 2% | 2% | 2% | 2% | | | | | | |
| Market Share of Total Load | | | | | | | | | | | | |
| Day Ahead Market | 93.8% | 94.4% | 94.1% | 93.4% | 97.0% | 96.5% | | | | | | |
| Balancing Energy + | 6.2% | 5.6% | 5.9% | 6.6% | 3.0% | 3.5% | | | | | | |
| Total MWH | 15,269,924 | 13,219,933 | 12,896,143 | 11,765,244 | 12,554,605 | 13,409,971 | | | | | | |
| Average Daily Energy Sendout/Month GWh | 451 | 429 | 390 | 359 | 372 | 422 | | | | | | |

| <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> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| Day Ahead Market MWh | 14,108,848 | 13,325,329 | 12,843,278 | 11,204,262 | 11,854,214 | 14,120,662 | 15,843,724 | 16,032,238 | 12,759,550 | 11,852,213 | 11,496,431 | 13,068,538 |
| DAM LSE Internal LBMP Energy Sales | 60% | 59% | 56% | 55% | 56% | 61% | 65% | 64% | 61% | 59% | 60% | 57% |
| DAM External TC LBMP Energy Sales | 5% | 4% | 3% | 2% | 2% | 3% | 2% | 4% | 3% | 4% | 3% | 6% |
| DAM Bilateral - Internal Bilaterals | 31% | 30% | 32% | 35% | 35% | 29% | 27% | 26% | 29% | 30% | 32% | 30% |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals | 1% | 4% | 4% | 5% | 4% | 4% | 3% | 3% | 4% | 4% | 3% | 3% |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 1% | 2% | 2% | 2% | 2% |
| DAM Bilateral - Wheel Through Bilaterals | 2% | 2% | 3% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 1% | 2% |
| Balancing Energy Market MWh | 29,179 | -308,157 | -70,279 | 30,603 | -36,350 | 247,874 | -367,232 | 454,982 | 543,392 | 511,553 | 639,571 | 675,223 |
| Balancing Energy LSE Internal LBMP Energy Sales | -215% | -151% | -367% | -456% | -398% | 53% | -135% | 82% | 65% | 63% | 74% | 87% |
| Balancing Energy External TC LBMP Energy Sales | 374% | 59% | 365% | 578% | 440% | 60% | 41% | 34% | 40% | 39% | 26% | 18% |
| Balancing Energy Bilateral - Internal Bilaterals | 49% | 4% | 27% | 34% | 0% | -1% | 3% | 3% | 1% | 2% | 2% | 2% |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 1% | 0% | 0% |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 50% | 5% | 32% | 34% | 21% | 5% | 3% | 2% | 4% | 5% | 7% | 8% |
| Balancing Energy Bilateral - Wheel Through Bilaterals | -158% | -17% | -158% | -90% | -163% | -17% | -11% | -21% | -9% | -10% | -8% | -15% |
| Transactions Summary | | | | | | | | | | | | |
| LBMP | 65% | 62% | 59% | 57% | 58% | 65% | 66% | 69% | 66% | 64% | 65% | 65% |
| Internal Bilaterals | 31% | 31% | 33% | 35% | 35% | 29% | 28% | 25% | 27% | 28% | 30% | 28% |
| Import Bilaterals | 1% | 4% | 4% | 5% | 4% | 3% | 3% | 3% | 4% | 4% | 3% | 3% |
| Export Bilaterals | 2% | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 2% | 2% | 2% | 2% |
| Wheels Through | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 1% | 2% | 2% | 0% | 1% |
| Market Share of Total Load | | | | | | | | | | | | |
| Day Ahead Market | 99.8% | 102.4% | 100.6% | 99.7% | 100.3% | 98.3% | 102.4% | 97.2% | 95.9% | 95.9% | 94.7% | 95.1% |
| Balancing Energy + | 0.2% | -2.4% | -0.6% | 0.3% | -0.3% | 1.7% | -2.4% | 2.8% | 4.1% | 4.1% | 5.3% | 4.9% |
| Total MWH | 14,138,027 | 13,017,172 | 12,772,999 | 11,234,865 | 11,817,864 | 14,368,536 | 15,476,492 | 16,487,220 | 13,302,943 | 12,363,765 | 12,136,001 | 13,743,761 |
| Average Daily Energy Sendout/Month GWh | 427 | 434 | 381 | 354 | 365 | 458 | 483 | 504 | 420 | 373 | 387 | 408 |

+ 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 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> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | | |
| Price * | \$124.39 | \$85.98 | \$52.41 | \$55.23 | \$66.11 | \$72.43 | | | | | | |
| Standard Deviation | \$51.94 | \$39.56 | \$18.64 | \$11.05 | \$21.60 | \$19.84 | | | | | | |
| Load Weighted Price ** | \$128.16 | \$88.17 | \$53.69 | \$55.96 | \$69.05 | \$75.15 | | | | | | |
| <u>RTC LBMP</u> | | | | | | | | | | | | |
| Price * | \$127.16 | \$85.48 | \$57.58 | \$57.33 | \$68.27 | \$78.66 | | | | | | |
| Standard Deviation | \$77.62 | \$55.20 | \$38.62 | \$21.09 | \$42.87 | \$49.85 | | | | | | |
| Load Weighted Price ** | \$130.45 | \$88.33 | \$59.03 | \$58.49 | \$72.67 | \$82.33 | | | | | | |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | | |
| Price * | \$130.43 | \$83.85 | \$57.00 | \$54.45 | \$65.07 | \$74.01 | | | | | | |
| Standard Deviation | \$93.35 | \$57.99 | \$44.52 | \$20.46 | \$33.01 | \$41.27 | | | | | | |
| Load Weighted Price ** | \$133.98 | \$86.99 | \$58.64 | \$55.57 | \$68.60 | \$77.40 | | | | | | |
| Average Daily Energy Sendout/Month GWh | 451 | 429 | 390 | 359 | 372 | 422 | | | | | | |

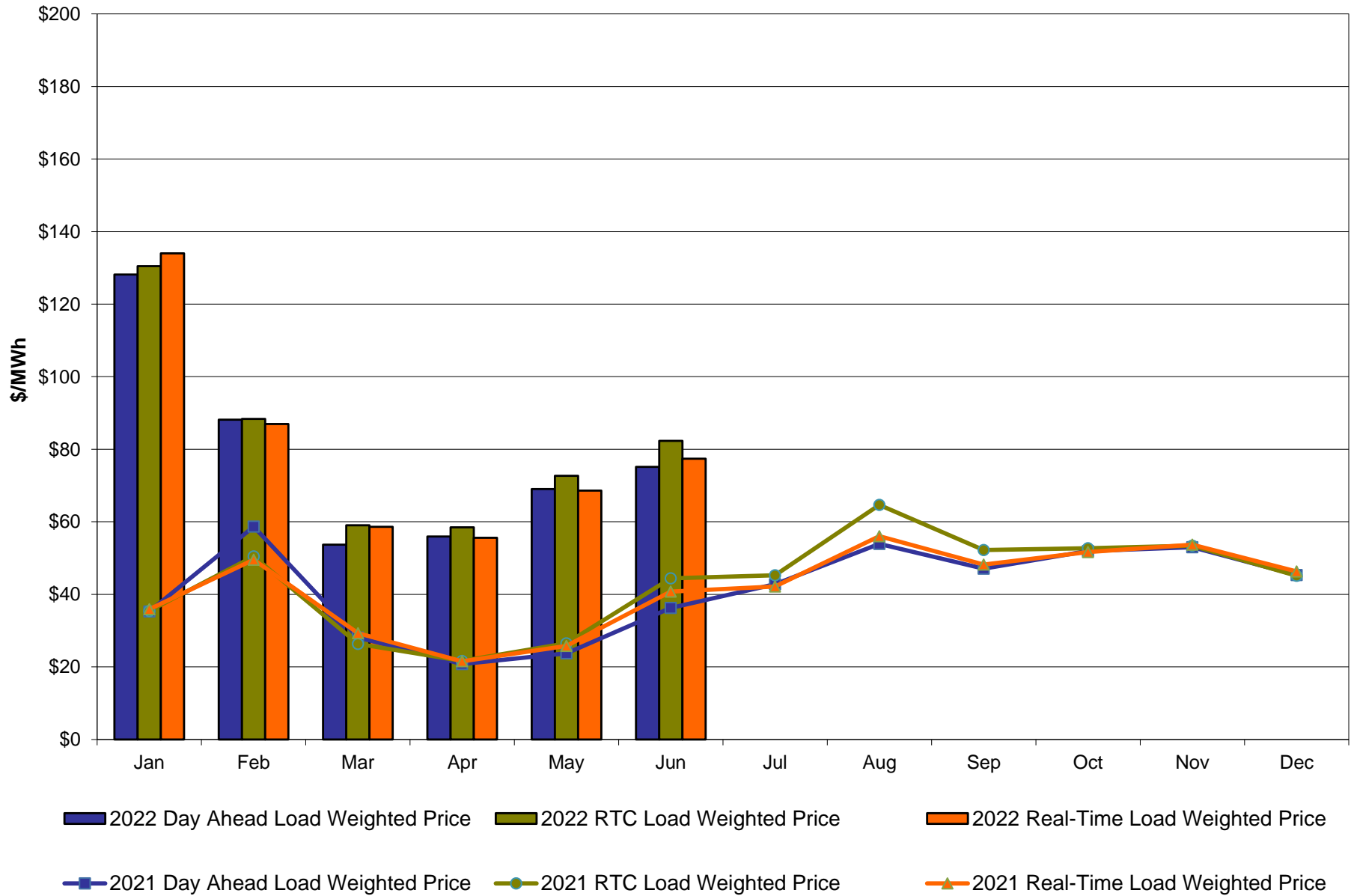
NYISO Markets 2021 Energy Statistics

| | <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> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | | |
| Price * | \$34.37 | \$57.30 | \$27.47 | \$20.46 | \$22.95 | \$33.36 | \$40.38 | \$50.30 | \$45.48 | \$50.66 | \$51.90 | \$44.24 |
| Standard Deviation | \$14.58 | \$24.48 | \$8.23 | \$4.58 | \$6.28 | \$15.88 | \$15.56 | \$22.37 | \$12.42 | \$11.04 | \$11.83 | \$13.72 |
| Load Weighted Price ** | \$35.31 | \$58.67 | \$28.12 | \$20.81 | \$23.75 | \$36.28 | \$42.84 | \$53.93 | \$47.08 | \$51.92 | \$52.98 | \$45.33 |
| <u>RTC LBMP</u> | | | | | | | | | | | | |
| Price * | \$34.32 | \$49.25 | \$25.59 | \$21.30 | \$25.36 | \$39.69 | \$42.25 | \$58.87 | \$50.07 | \$51.41 | \$52.37 | \$44.16 |
| Standard Deviation | \$20.93 | \$23.34 | \$12.67 | \$7.91 | \$11.17 | \$34.08 | \$47.97 | \$47.79 | \$22.24 | \$13.96 | \$16.97 | \$17.49 |
| Load Weighted Price ** | \$35.40 | \$50.48 | \$26.37 | \$21.67 | \$26.50 | \$44.41 | \$45.27 | \$64.66 | \$52.21 | \$52.71 | \$53.44 | \$45.12 |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | | |
| Price * | \$34.59 | \$48.22 | \$28.06 | \$21.10 | \$24.62 | \$36.58 | \$39.61 | \$51.46 | \$46.37 | \$50.41 | \$52.52 | \$45.13 |
| Standard Deviation | \$29.47 | \$26.46 | \$26.13 | \$10.07 | \$10.91 | \$25.43 | \$26.73 | \$37.53 | \$18.08 | \$14.93 | \$20.97 | \$23.65 |
| Load Weighted Price ** | \$35.89 | \$49.57 | \$29.33 | \$21.55 | \$25.78 | \$40.76 | \$42.20 | \$56.04 | \$48.21 | \$51.66 | \$53.68 | \$46.29 |
| Average Daily Energy Sendout/Month GWh | 427 | 434 | 381 | 354 | 365 | 458 | 483 | 504 | 420 | 373 | 387 | 408 |

* Average zonal load weighted prices.

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

NYISO Monthly Average Internal LBMPs 2021 - 2022

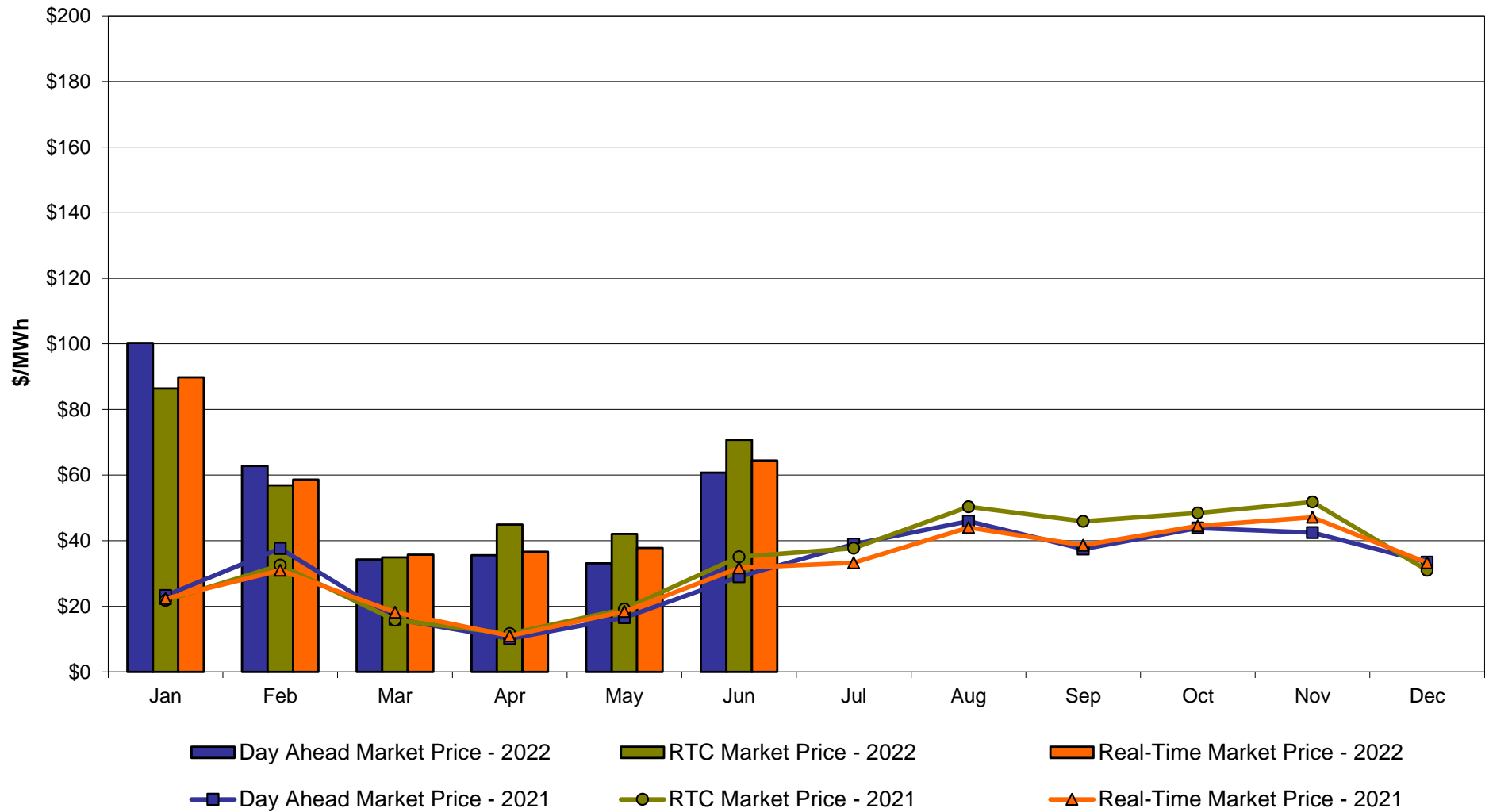


June 2022 Zonal LBMP Statistics for NYISO (\$/MWh)

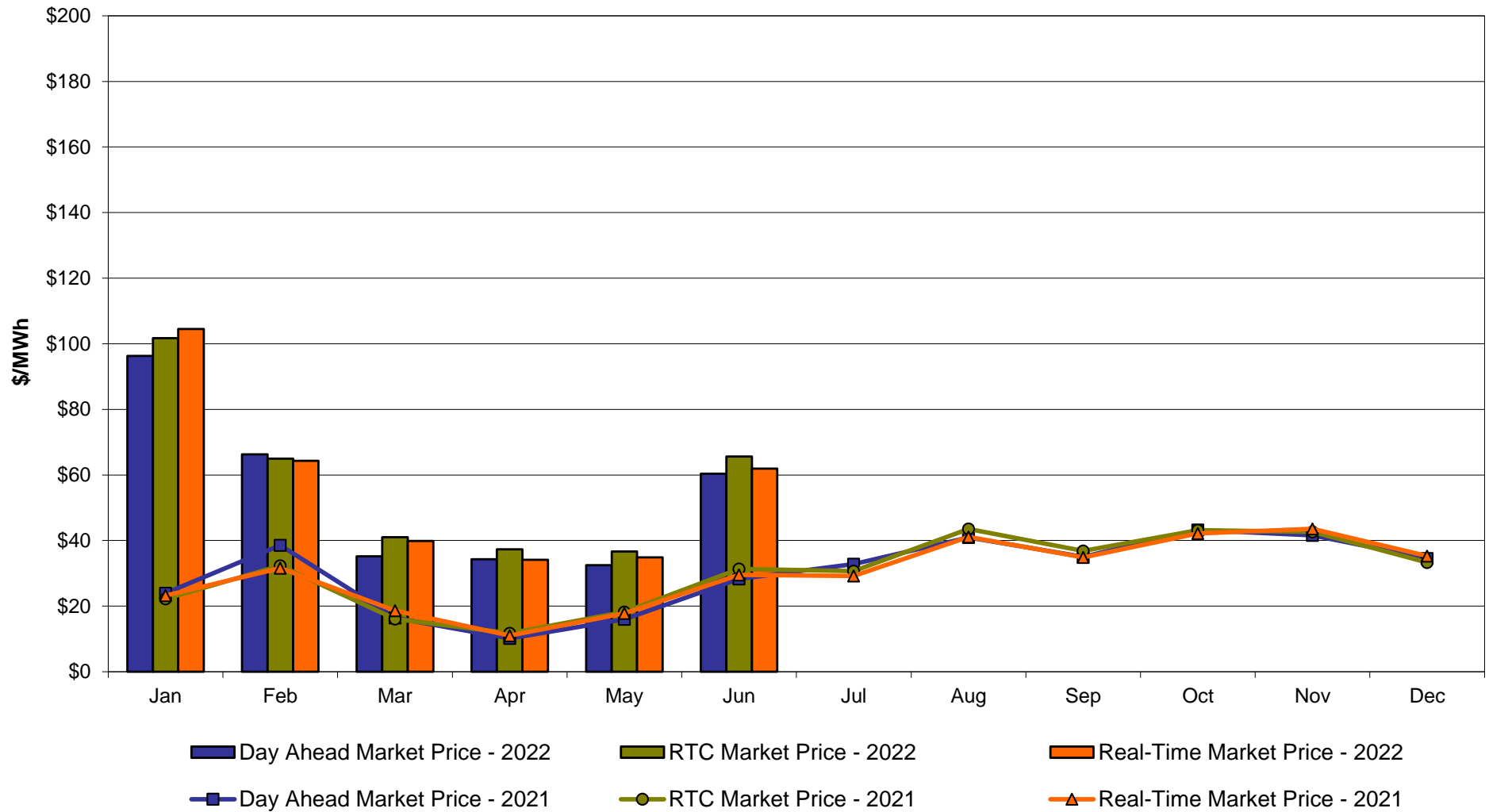
| | <u>WEST Zone A</u> | <u>GENESEE Zone B</u> | <u>NORTH Zone D</u> | <u>CENTRAL Zone C</u> | <u>MOHAWK VALLEY Zone E</u> | <u>CAPITAL Zone F</u> | <u>HUDSON VALLEY Zone G</u> | <u>MILLWOOD Zone H</u> | <u>DUNWOODIE Zone I</u> | <u>NEW YORK CITY Zone J</u> | <u>LONG ISLAND Zone K</u> |
|------------------------------|------------------------------------|--|--|---------------------------|-------------------------------------|--|---|--|---|---|---|
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 60.78 | 59.40 | 36.53 | 60.38 | 59.50 | 75.65 | 74.14 | 74.83 | 75.26 | 75.72 | 93.01 |
| Standard Deviation | 21.94 | 19.88 | 14.59 | 19.86 | 18.77 | 16.02 | 18.48 | 18.53 | 18.86 | 18.91 | 35.59 |
| <u>RTC LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 70.78 | 63.34 | 41.25 | 65.63 | 63.97 | 77.95 | 78.45 | 79.45 | 79.93 | 80.34 | 104.91 |
| Standard Deviation | 52.88 | 38.43 | 46.75 | 41.18 | 37.86 | 38.78 | 53.51 | 55.03 | 56.27 | 56.31 | 102.07 |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 64.43 | 60.88 | 39.24 | 61.96 | 60.77 | 75.66 | 75.79 | 76.77 | 77.29 | 77.77 | 92.37 |
| Standard Deviation | 42.79 | 36.85 | 44.46 | 37.42 | 35.06 | 39.00 | 42.07 | 42.57 | 43.50 | 43.61 | 70.71 |
| | <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> |
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 55.88 | 46.30 | 46.30 | 68.30 | 71.47 | 93.13 | 76.66 | 91.24 | 75.13 | 75.29 | 36.22 |
| Standard Deviation | 18.81 | 14.05 | 14.05 | 19.13 | 13.83 | 37.74 | 16.11 | 33.25 | 18.67 | 18.78 | 14.19 |
| <u>RTC LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 60.22 | 43.65 | 43.52 | 77.10 | 73.74 | 103.57 | 101.91 | 103.77 | 79.30 | 79.57 | 40.50 |
| Standard Deviation | 35.03 | 33.84 | 33.91 | 58.44 | 28.29 | 99.13 | 98.38 | 99.22 | 50.66 | 50.84 | 48.86 |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 57.15 | 43.06 | 42.96 | 73.68 | 71.38 | 91.42 | 70.00 | 91.37 | 76.69 | 76.94 | 36.65 |
| Standard Deviation | 52.29 | 32.15 | 32.17 | 57.40 | 42.05 | 70.35 | 84.95 | 68.95 | 41.41 | 41.62 | 44.40 |

* Straight LBMP averages

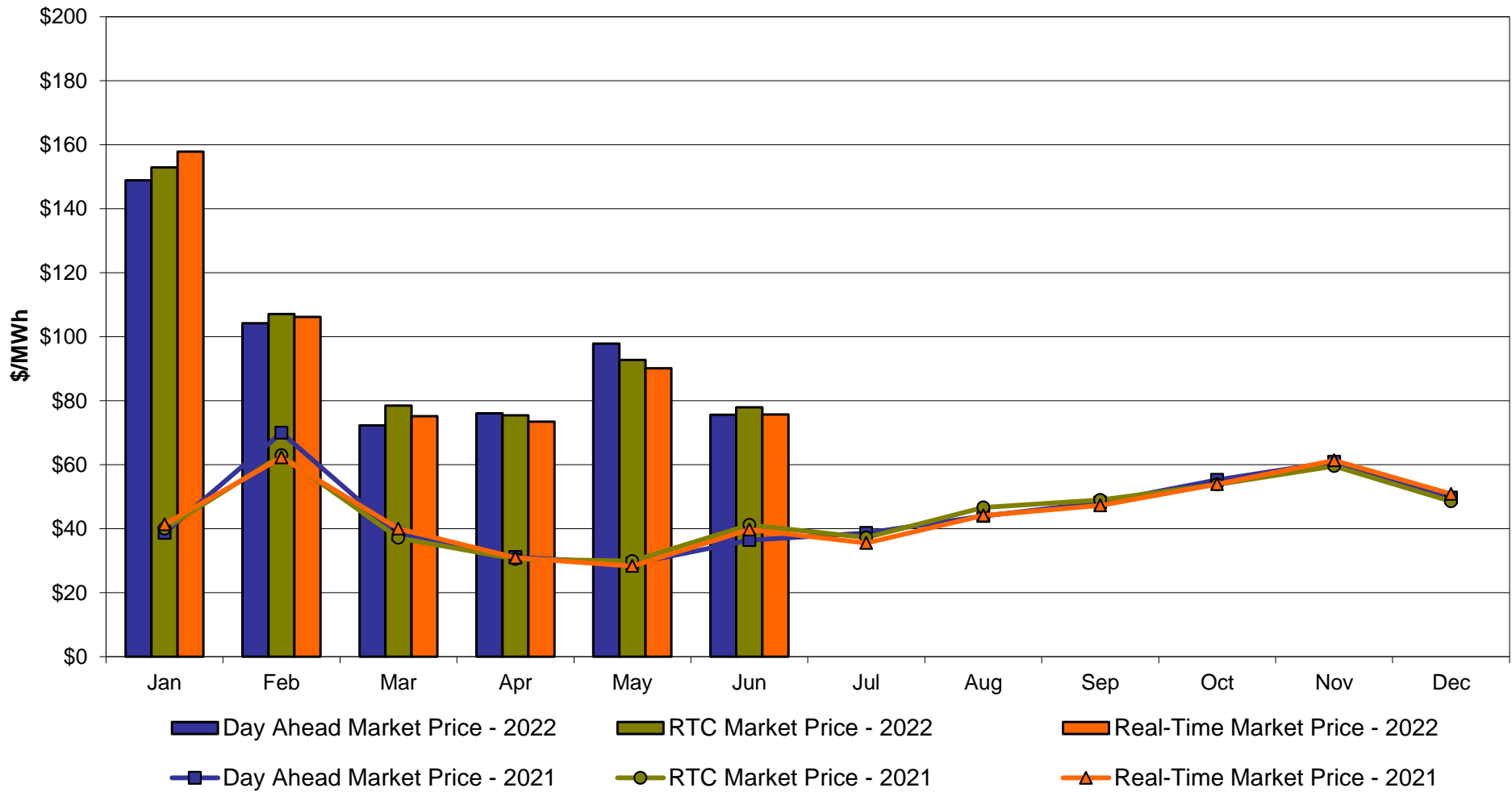
**West Zone A
Monthly Average LBMP Prices 2021 - 2022**



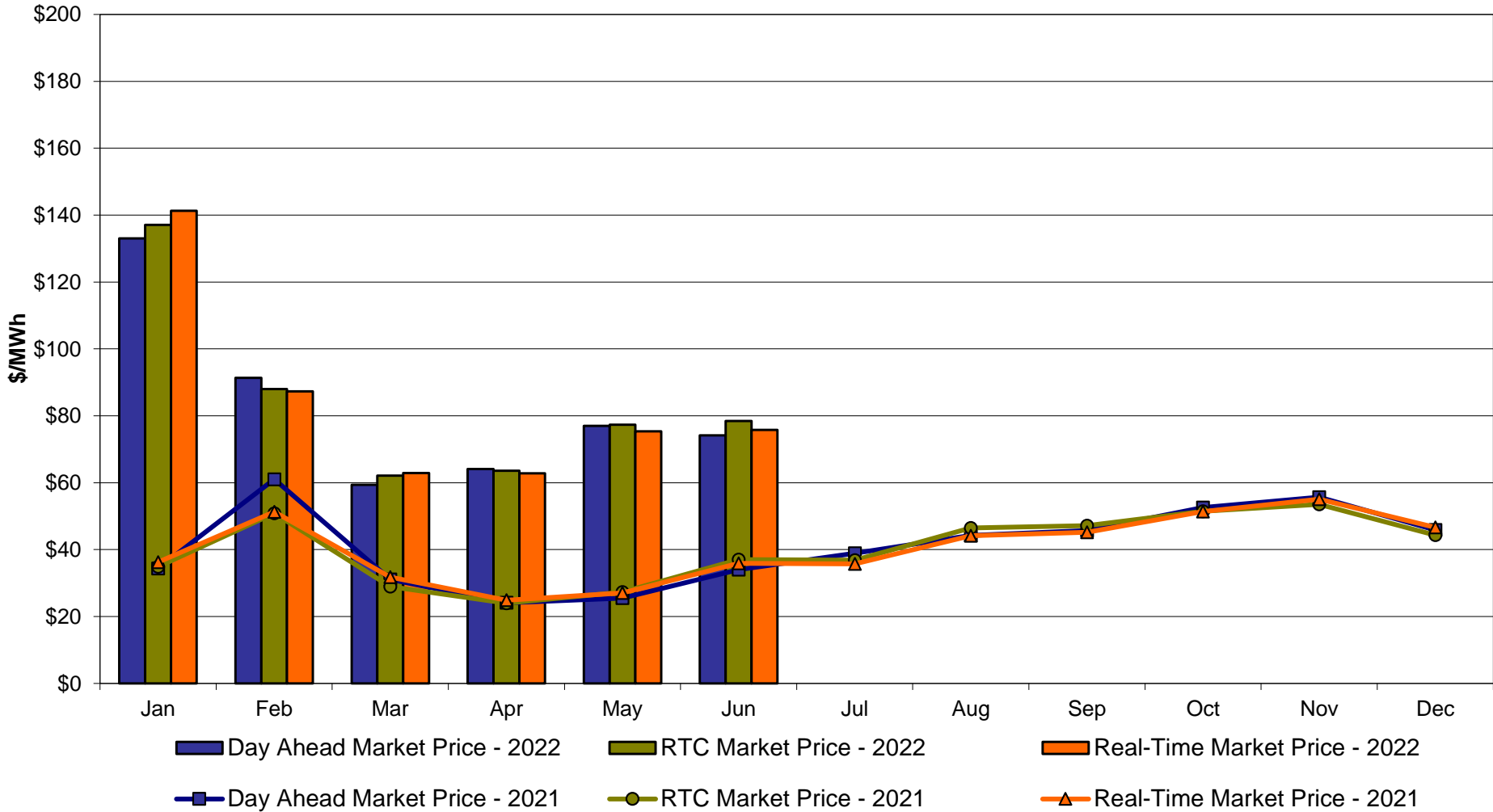
Central Zone C Monthly Average LBMP Prices 2020 - 2021



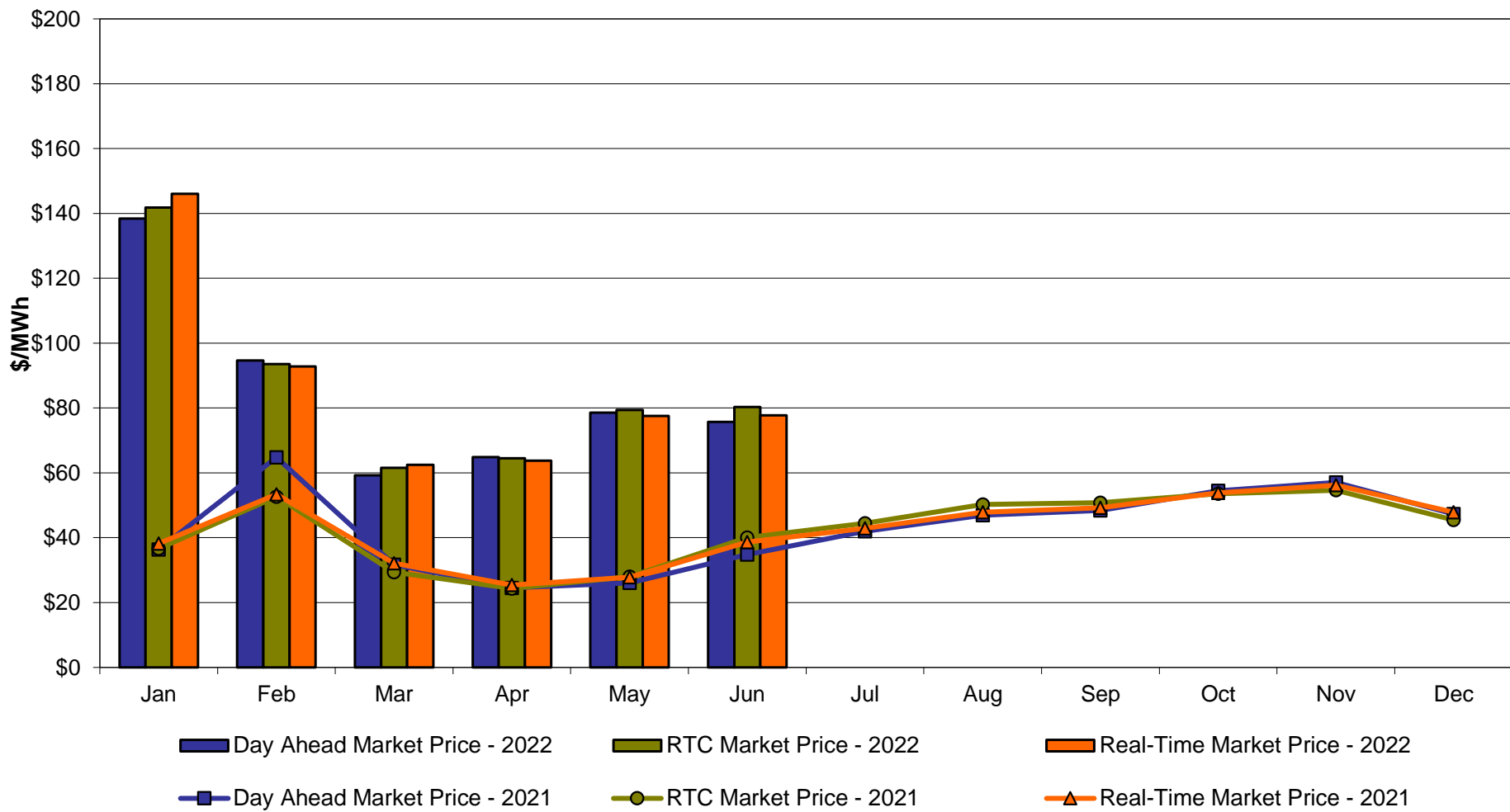
Capital Zone F Monthly Average LBMP Prices 2021 - 2022



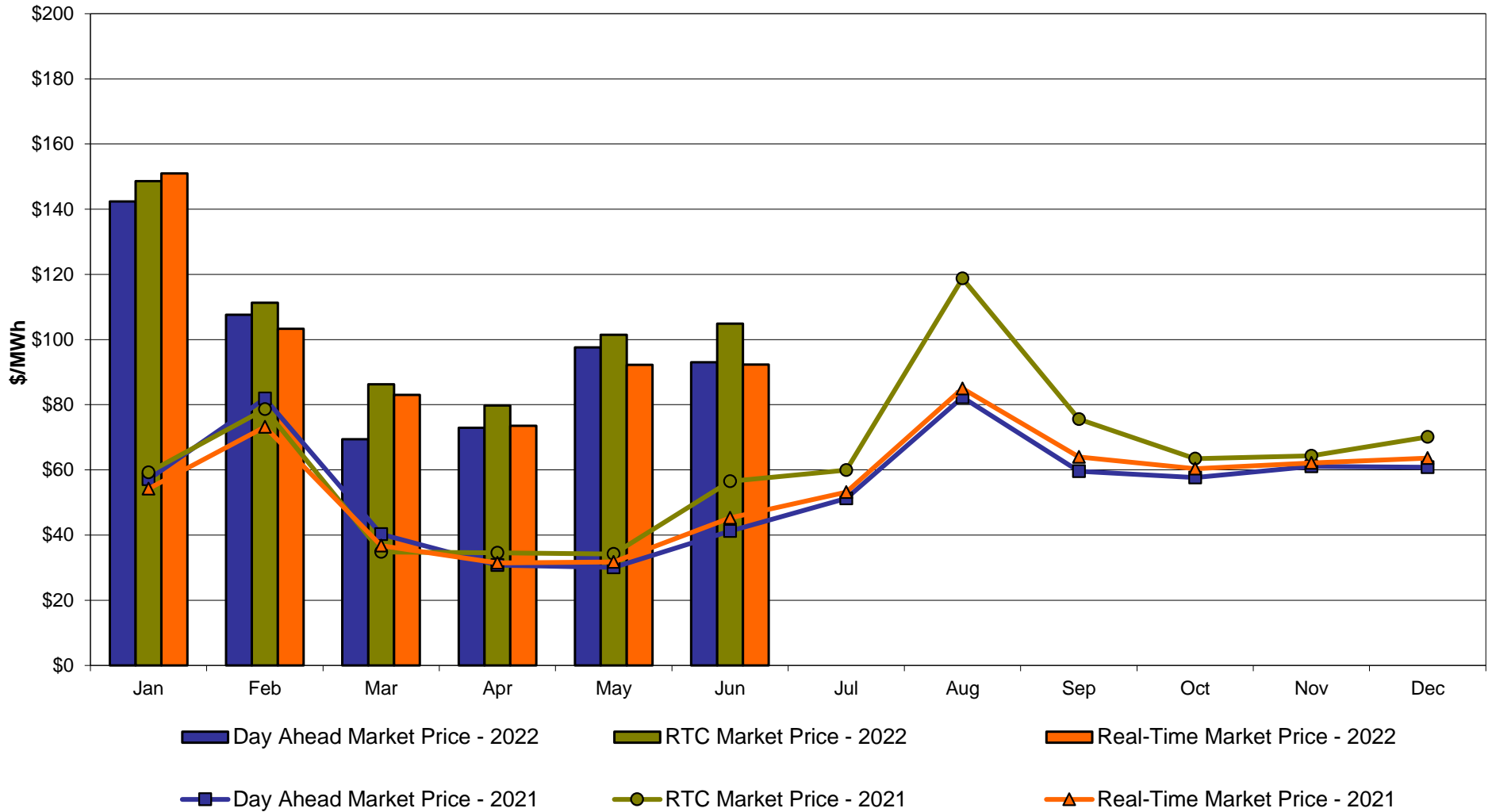
Hudson Valley Zone G Monthly Average LBMP Prices 2020 - 2021



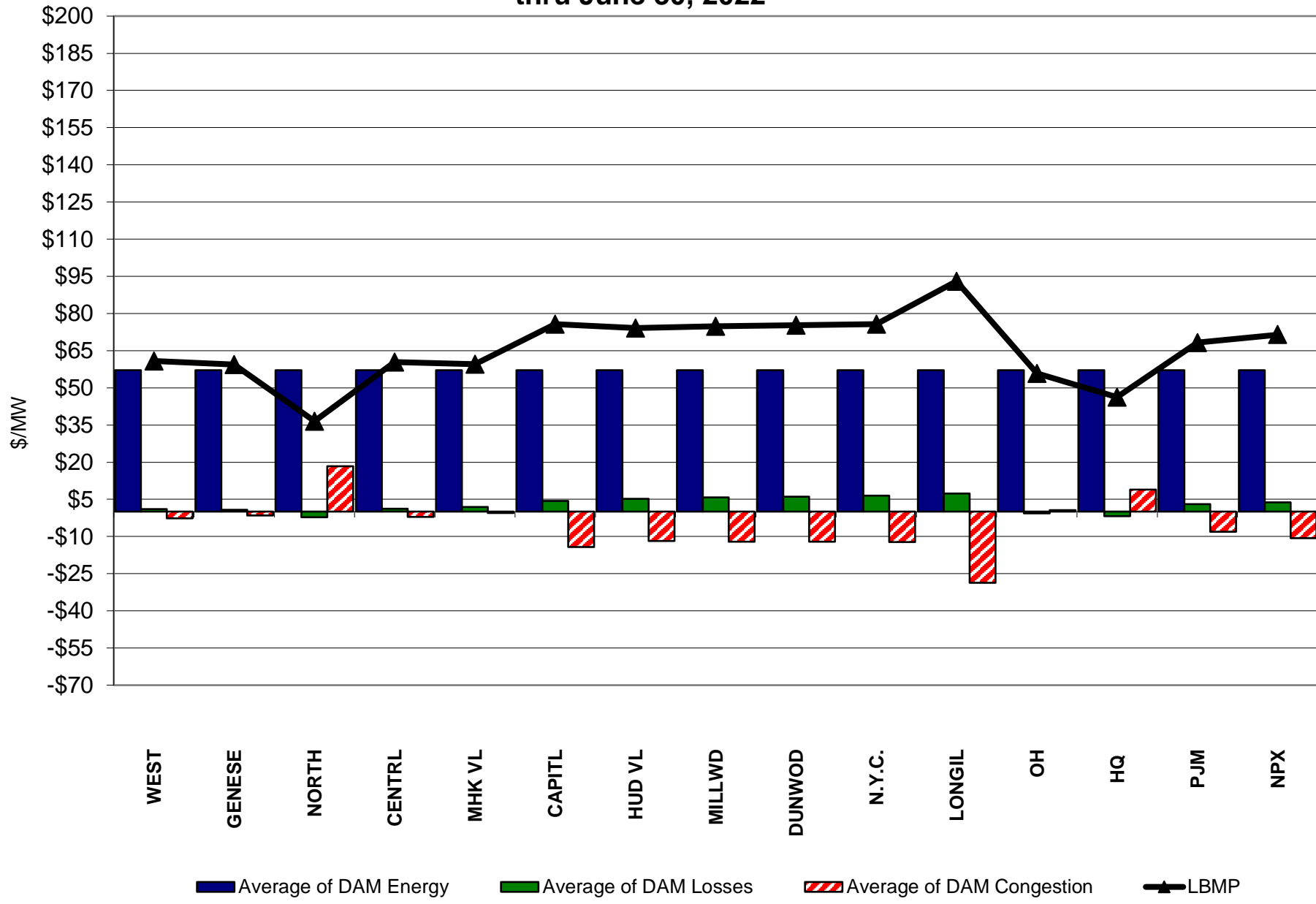
NYC Zone J Monthly Average LBMP Prices 2021 - 2022



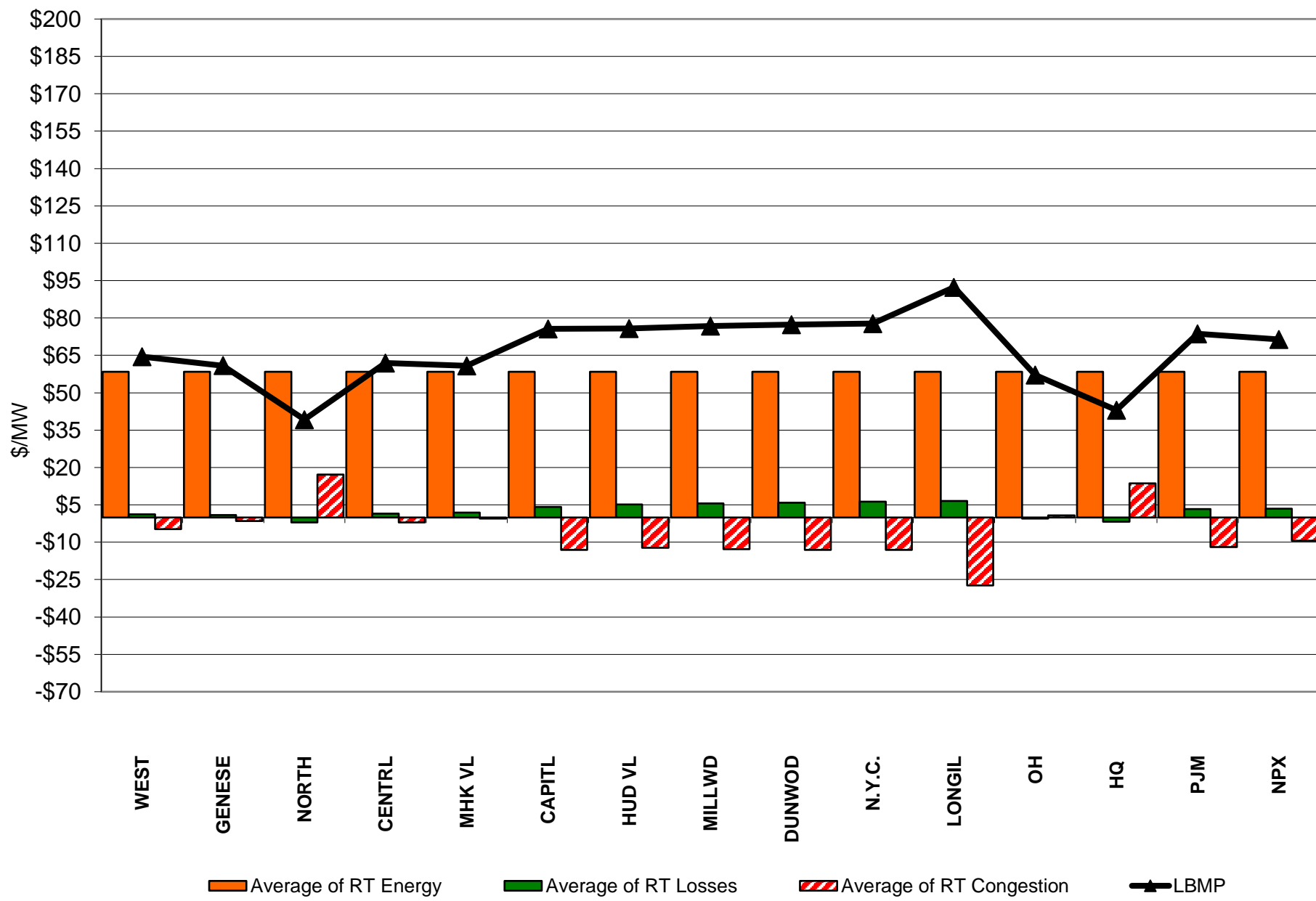
Long Island Zone K Monthly Average LBMP Prices 2020 - 2021



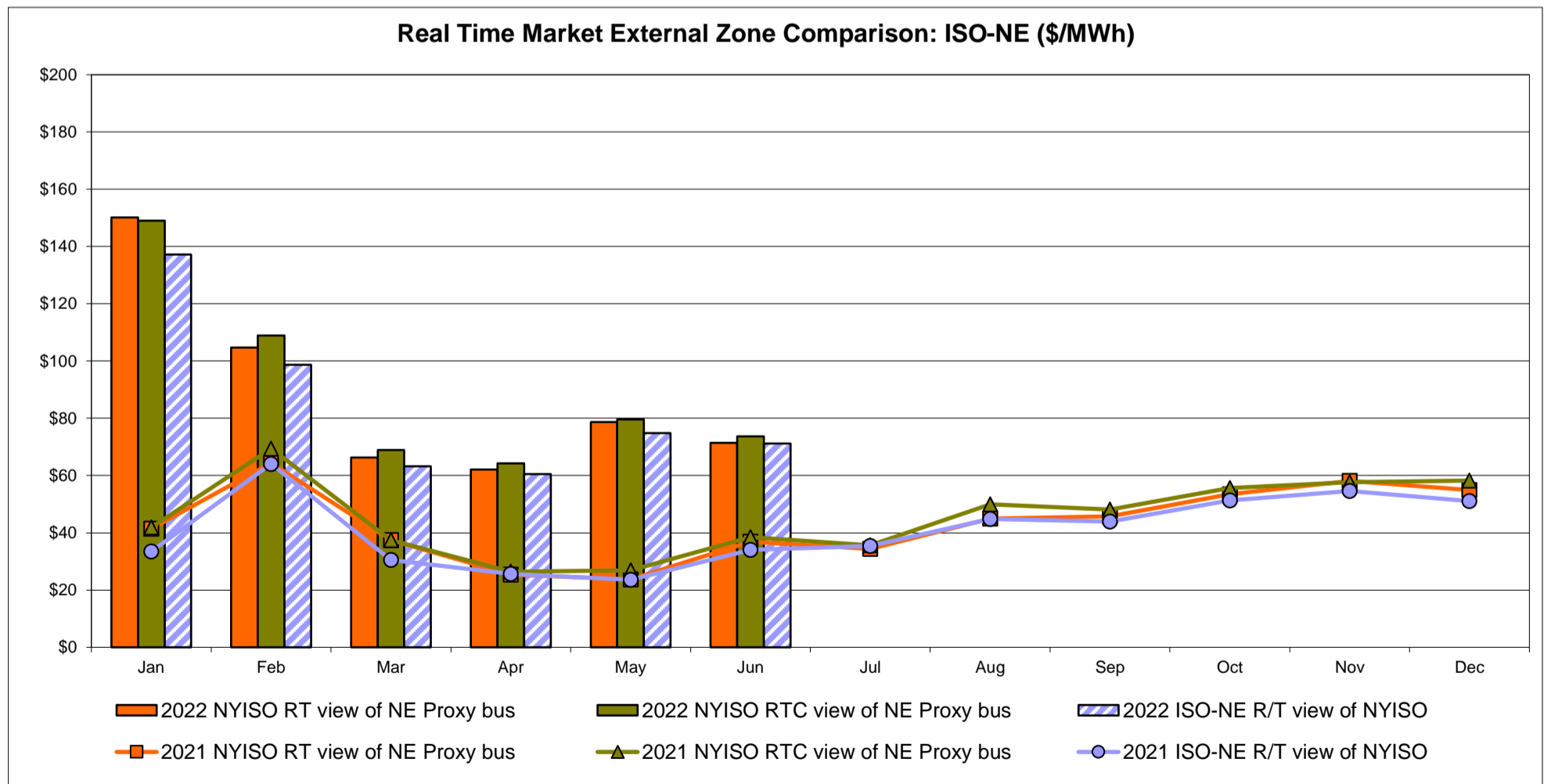
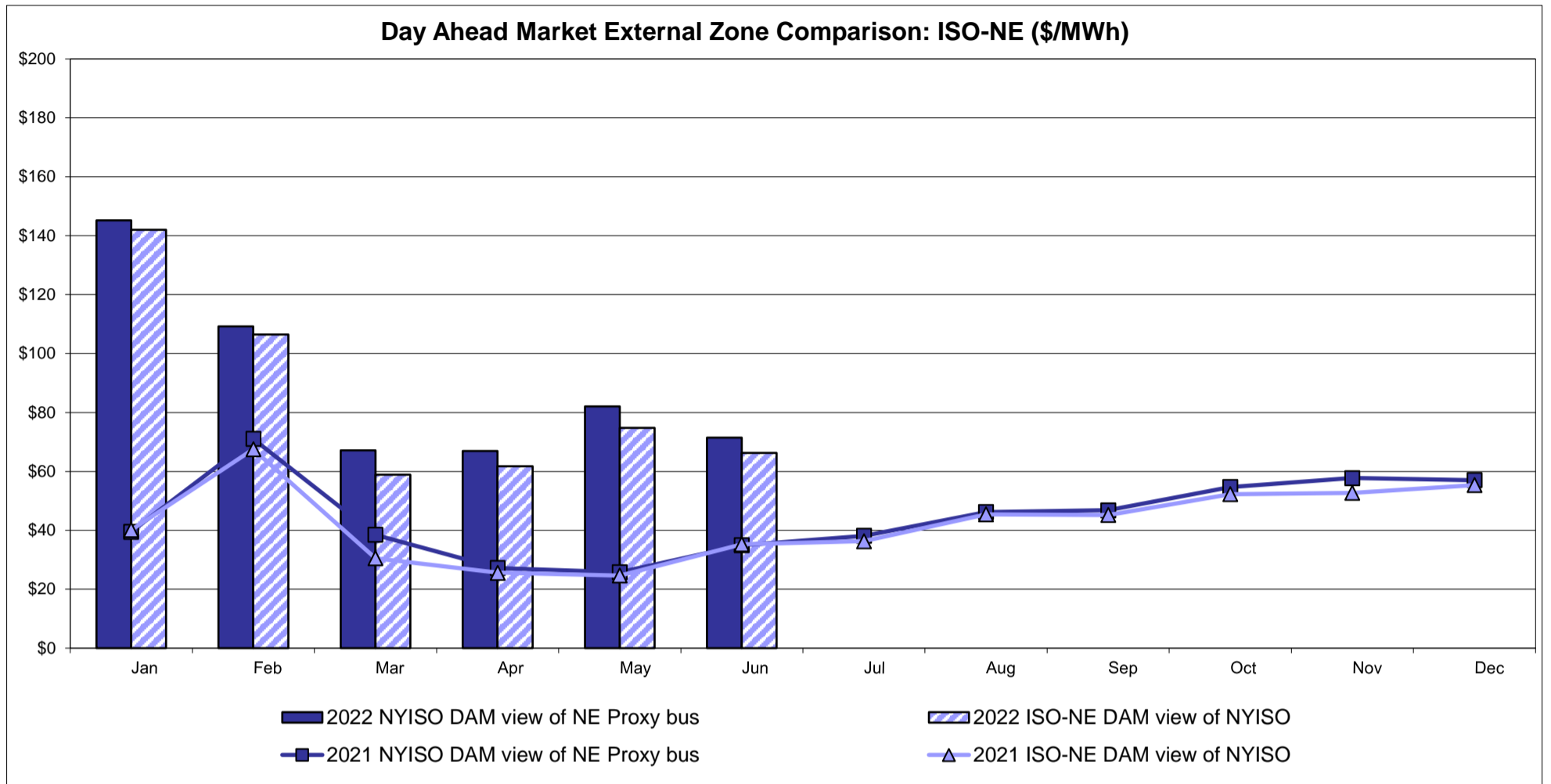
**DAM Zonal Unweighted Monthly Average LBMP Components
thru June 30, 2022**



**RT Zonal Unweighted Monthly Average LBMP Components
thru June 30, 2022**

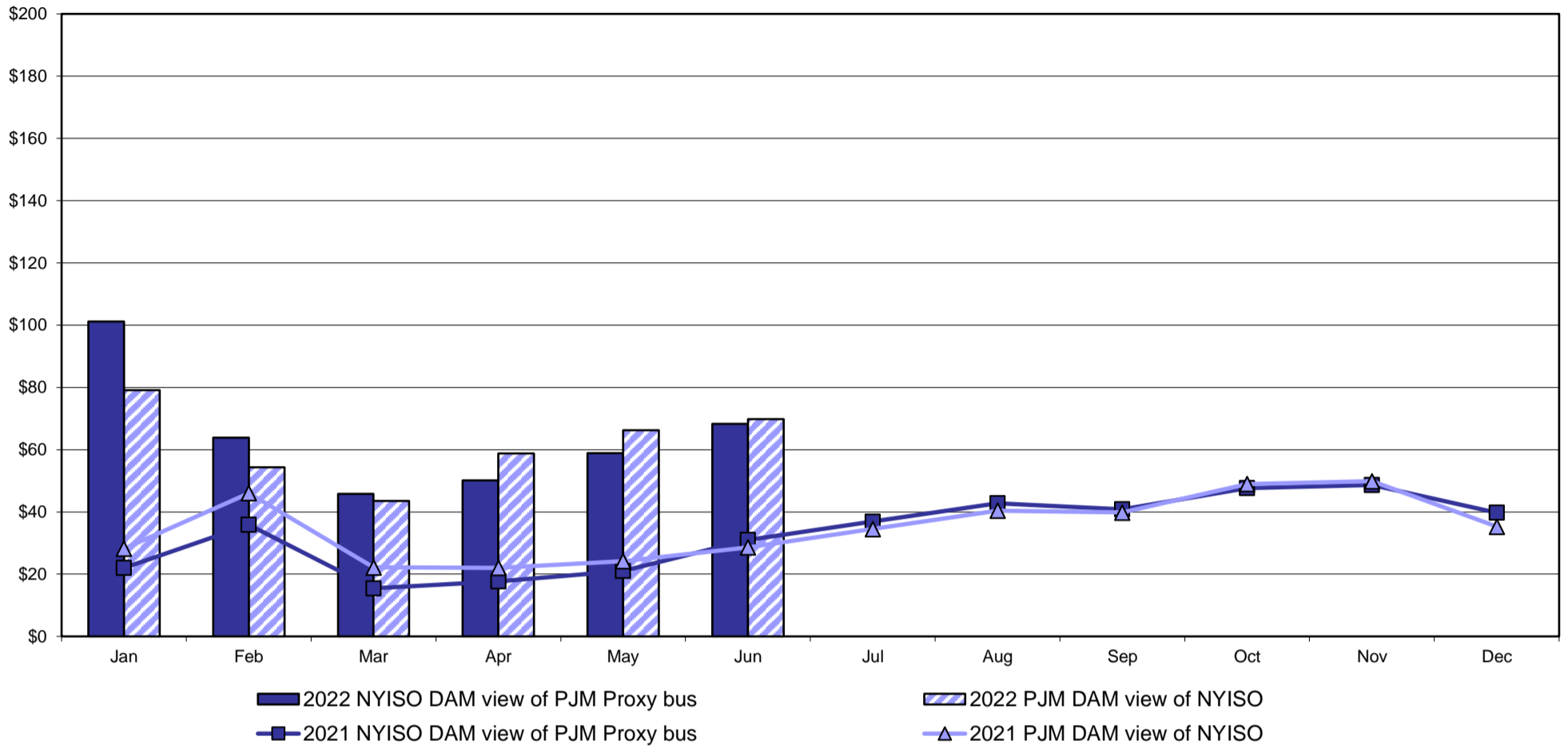


External Comparison ISO-New England

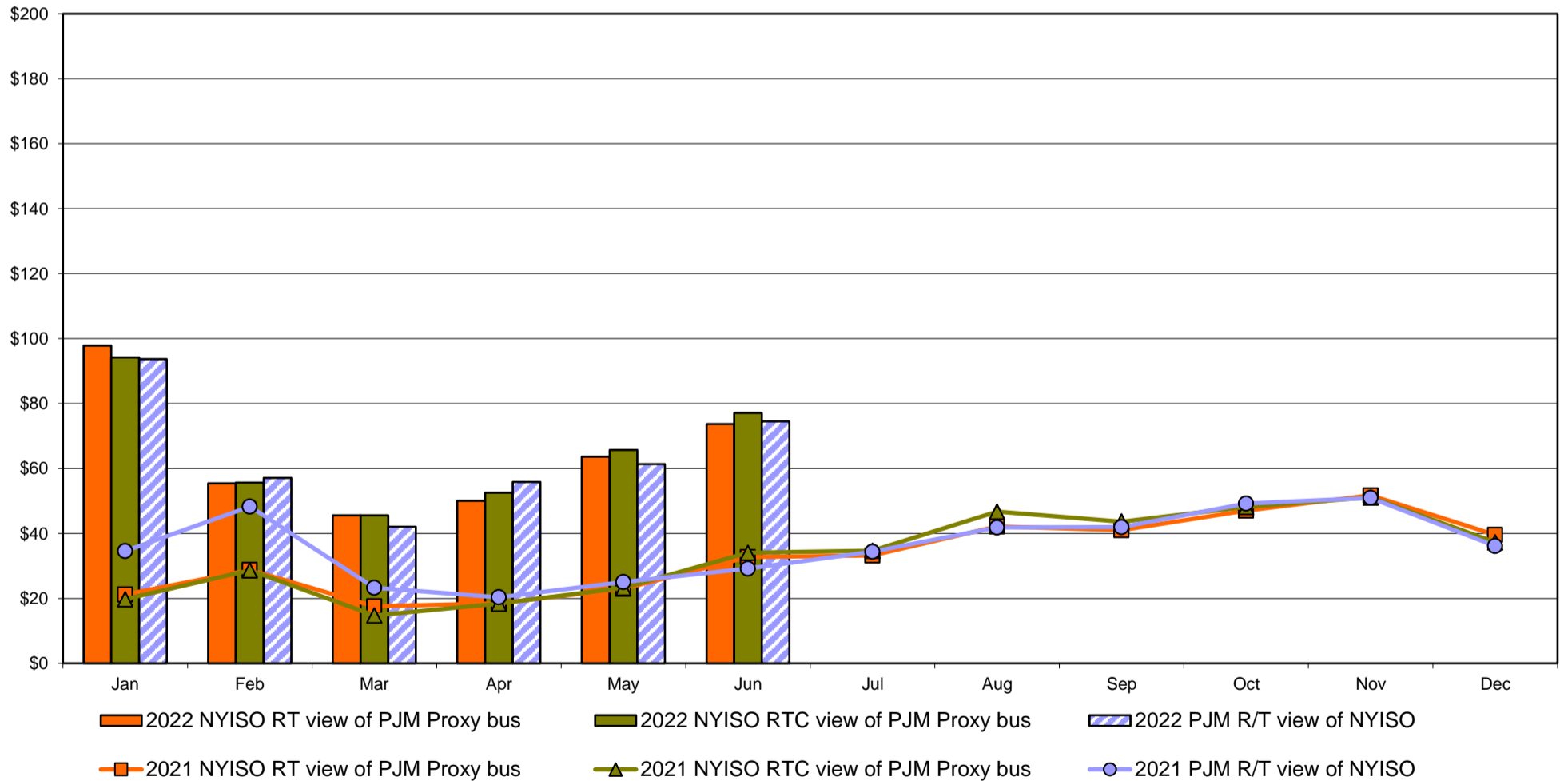


External Comparison PJM

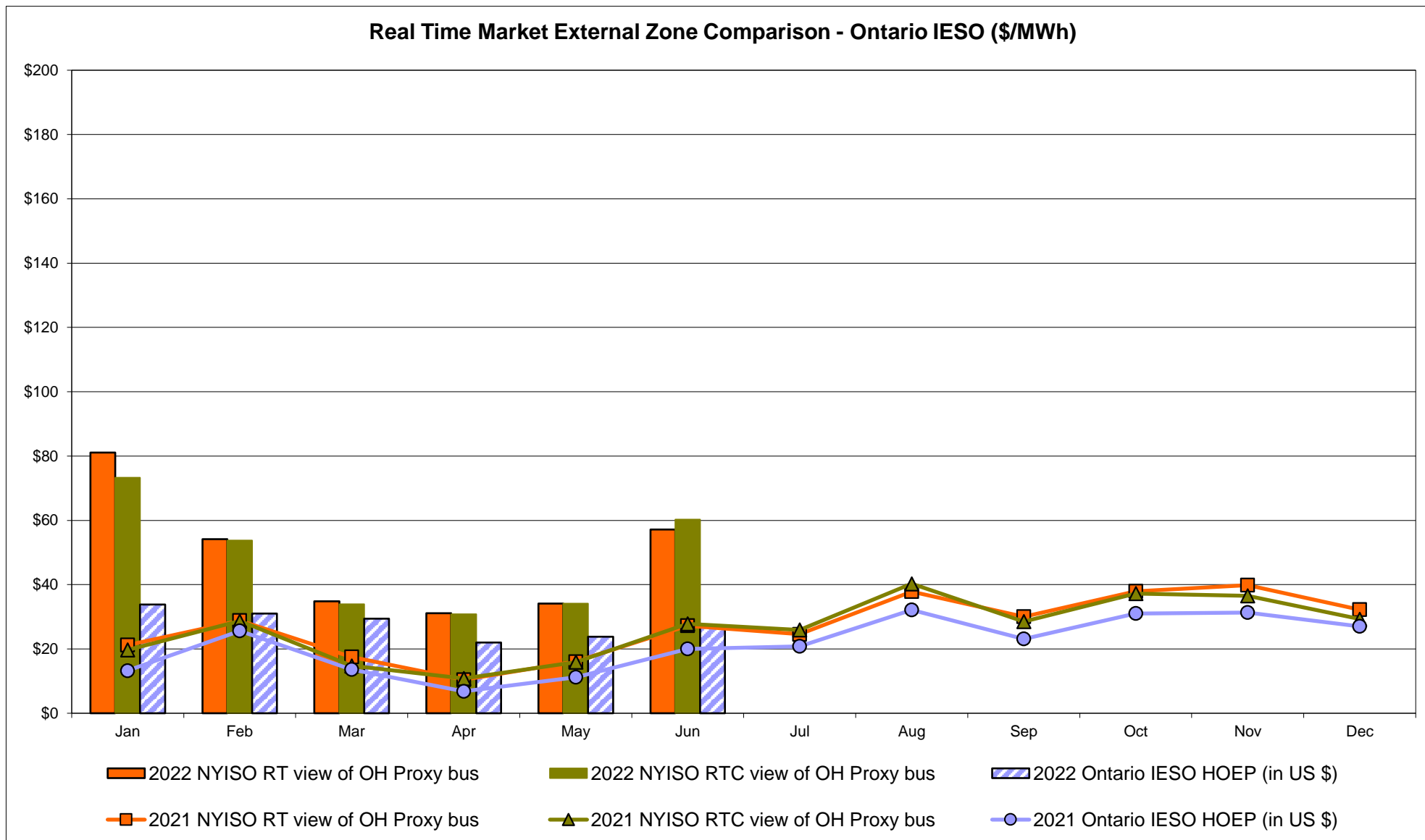
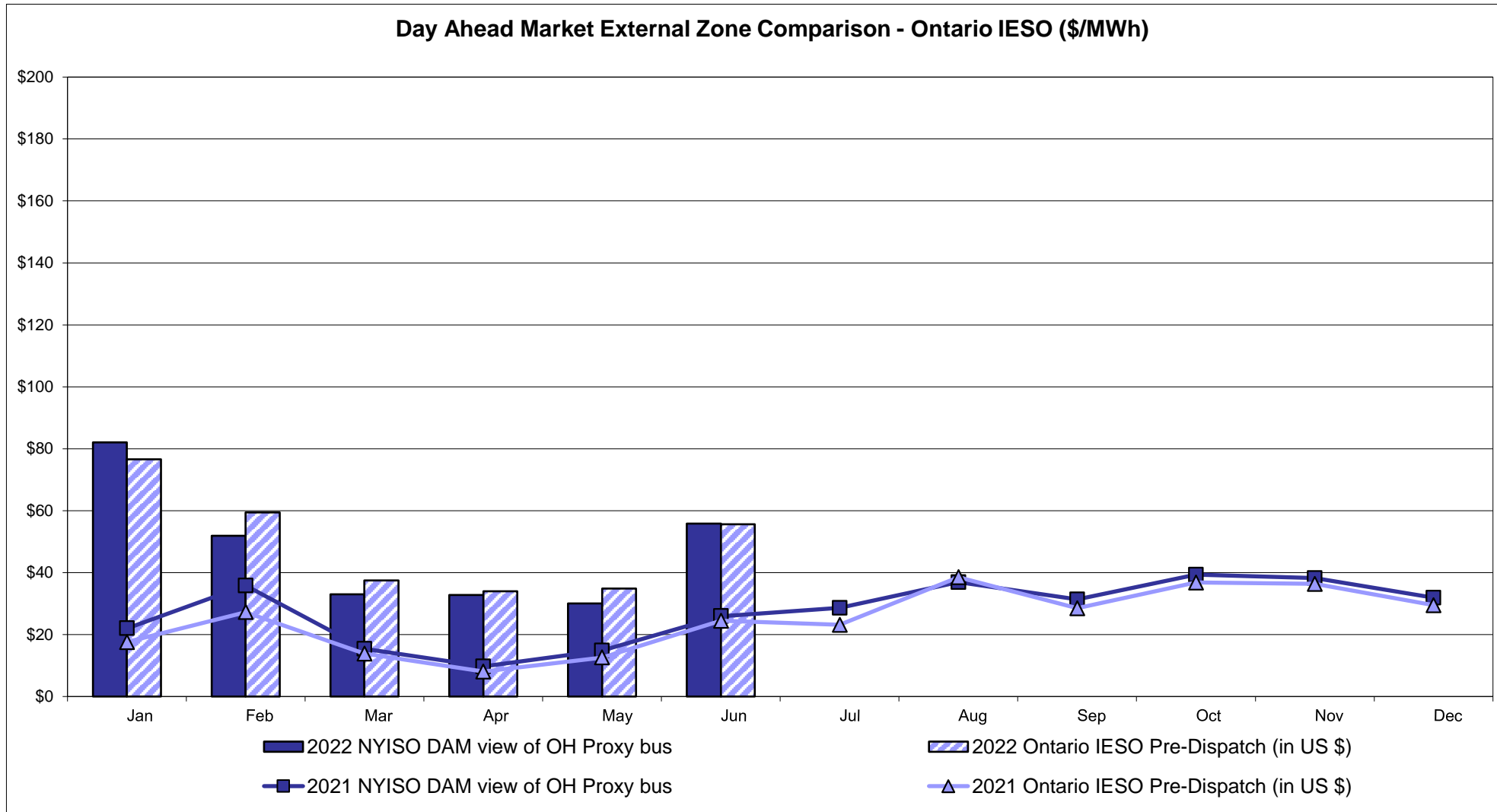
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

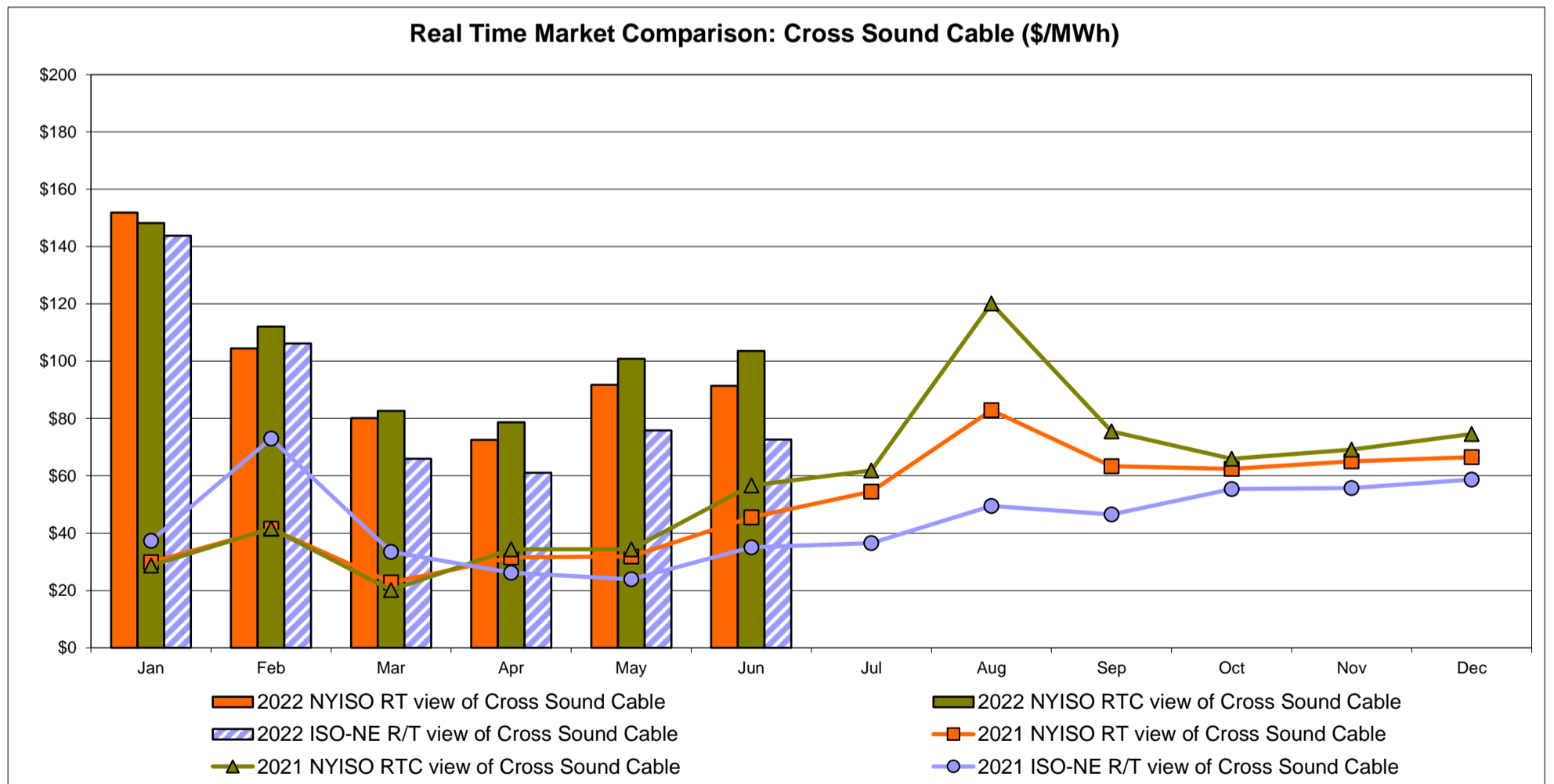
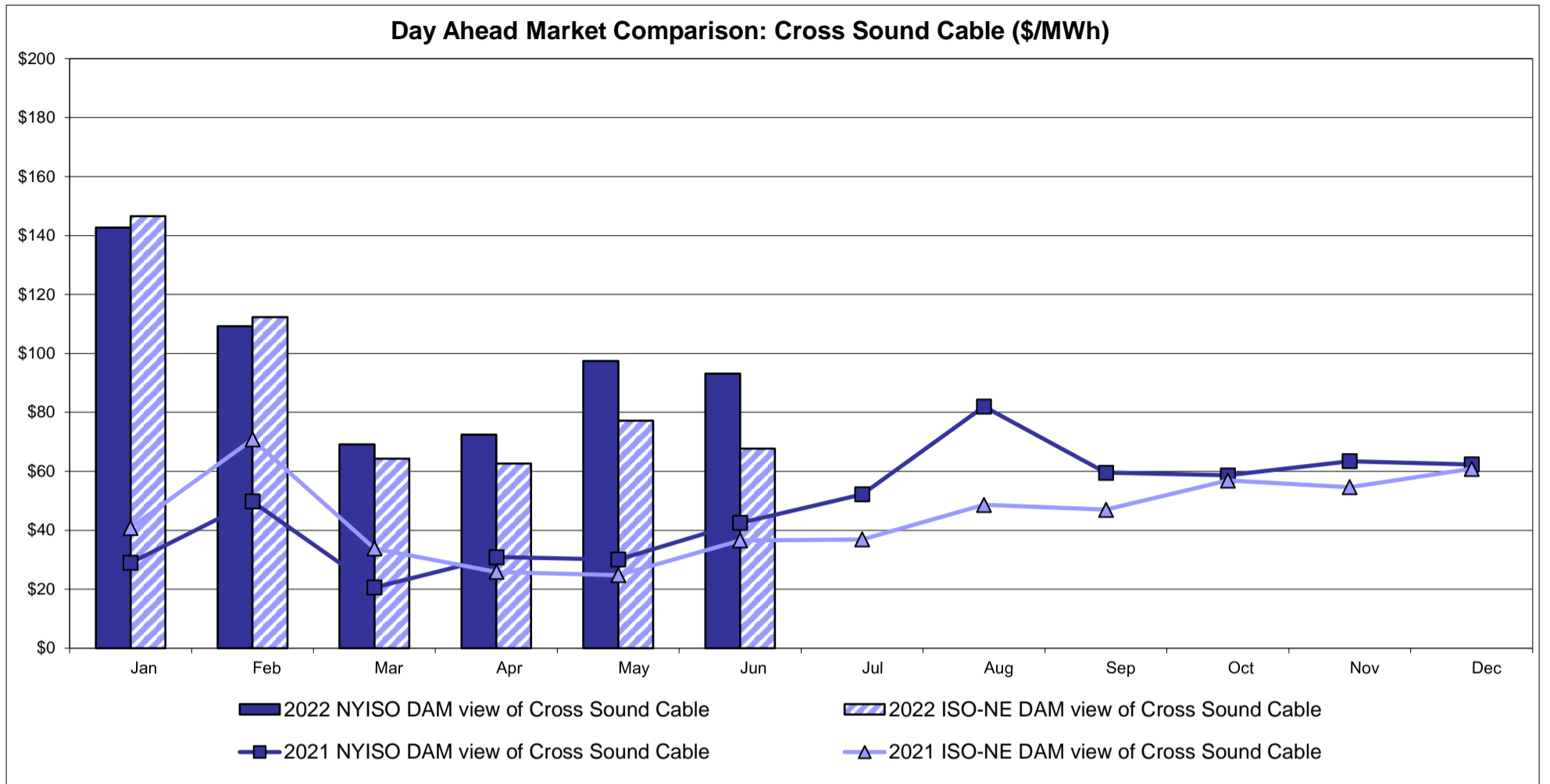


External Comparison Ontario IESO



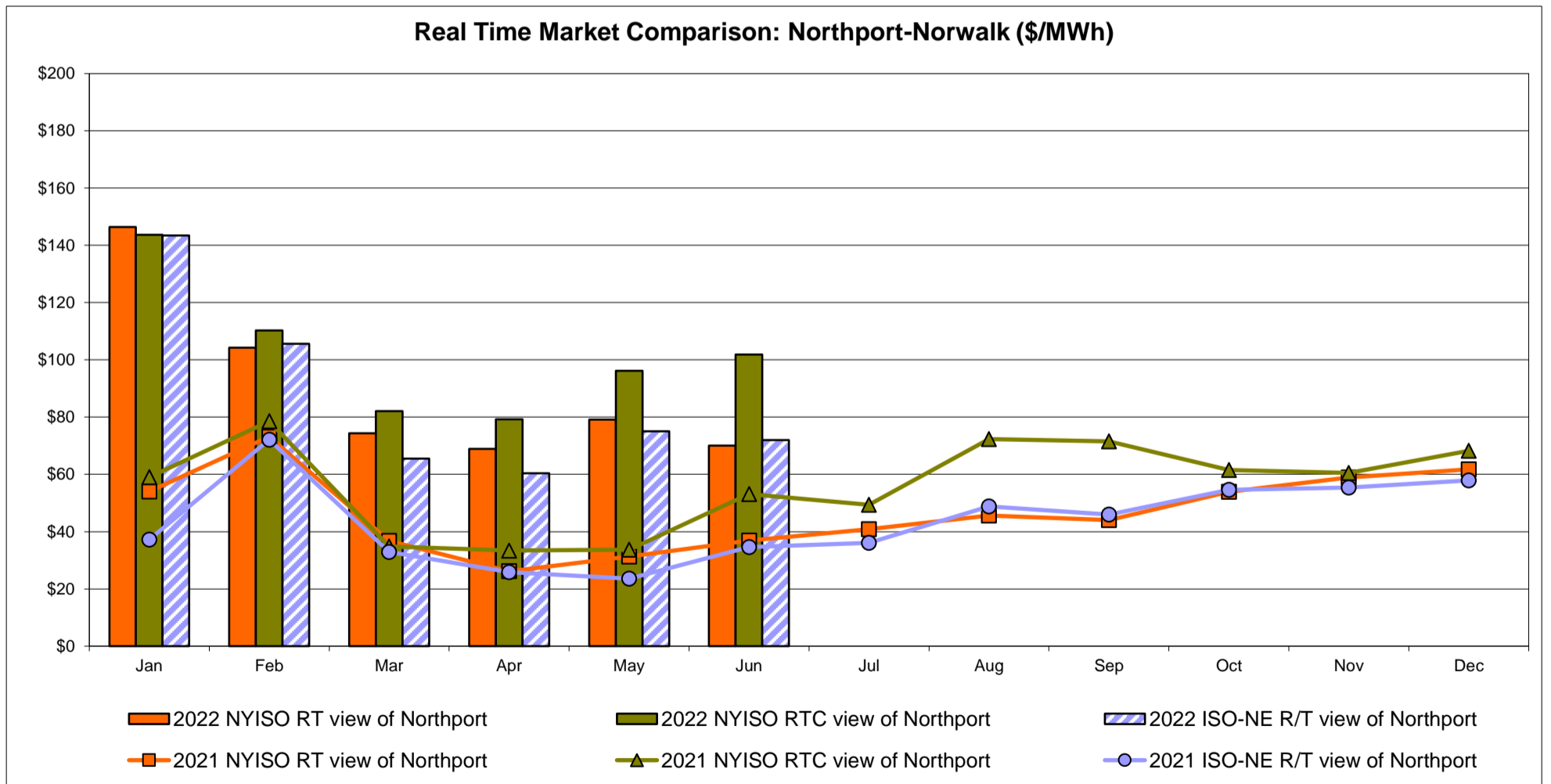
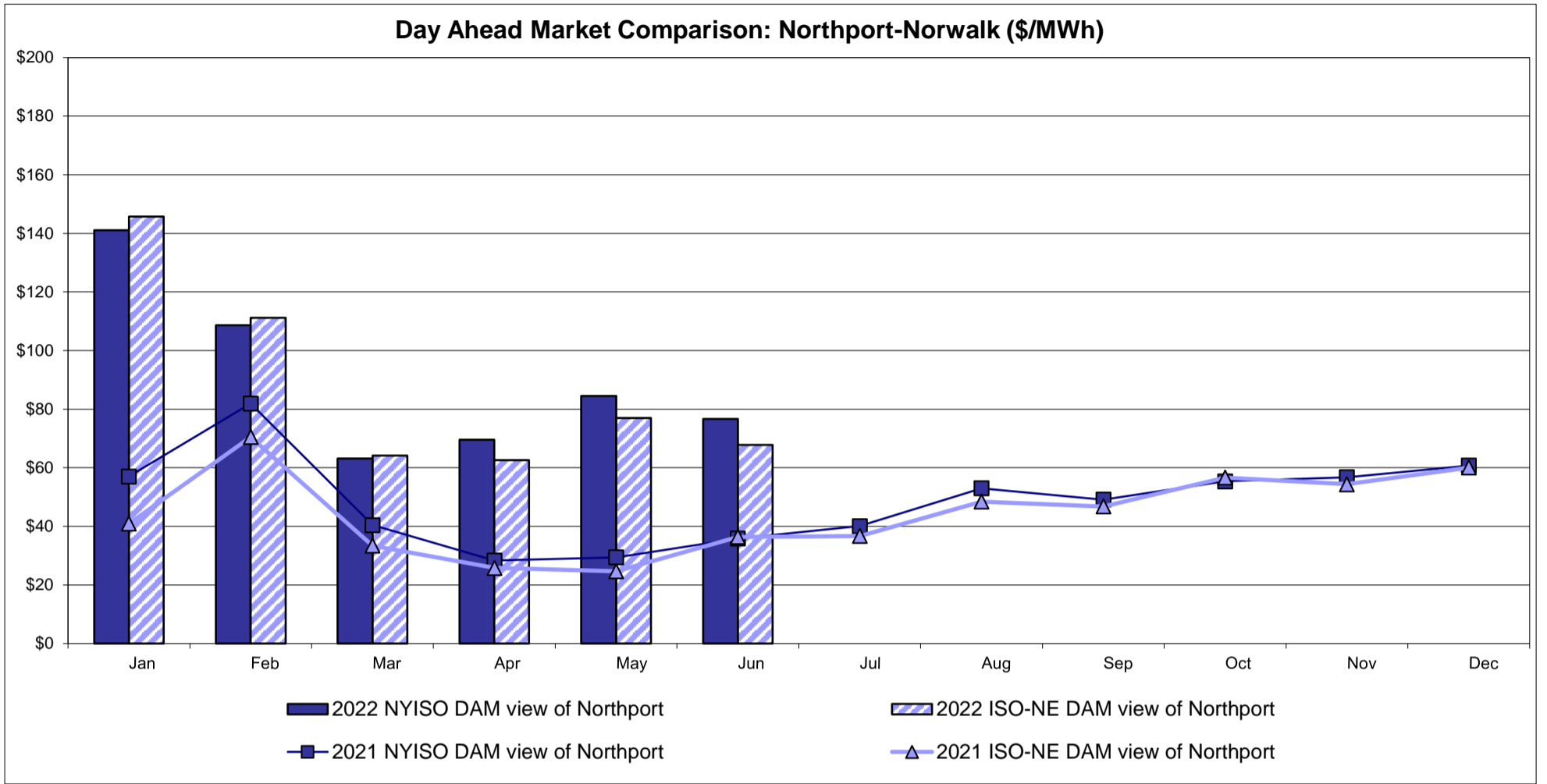
Notes: Exchange factor used for June 2022 was 0.781005935645111 to US
 HOEP: Hourly Ontario Energy Price
 Pre-Dispatch: Projected Energy Price

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.

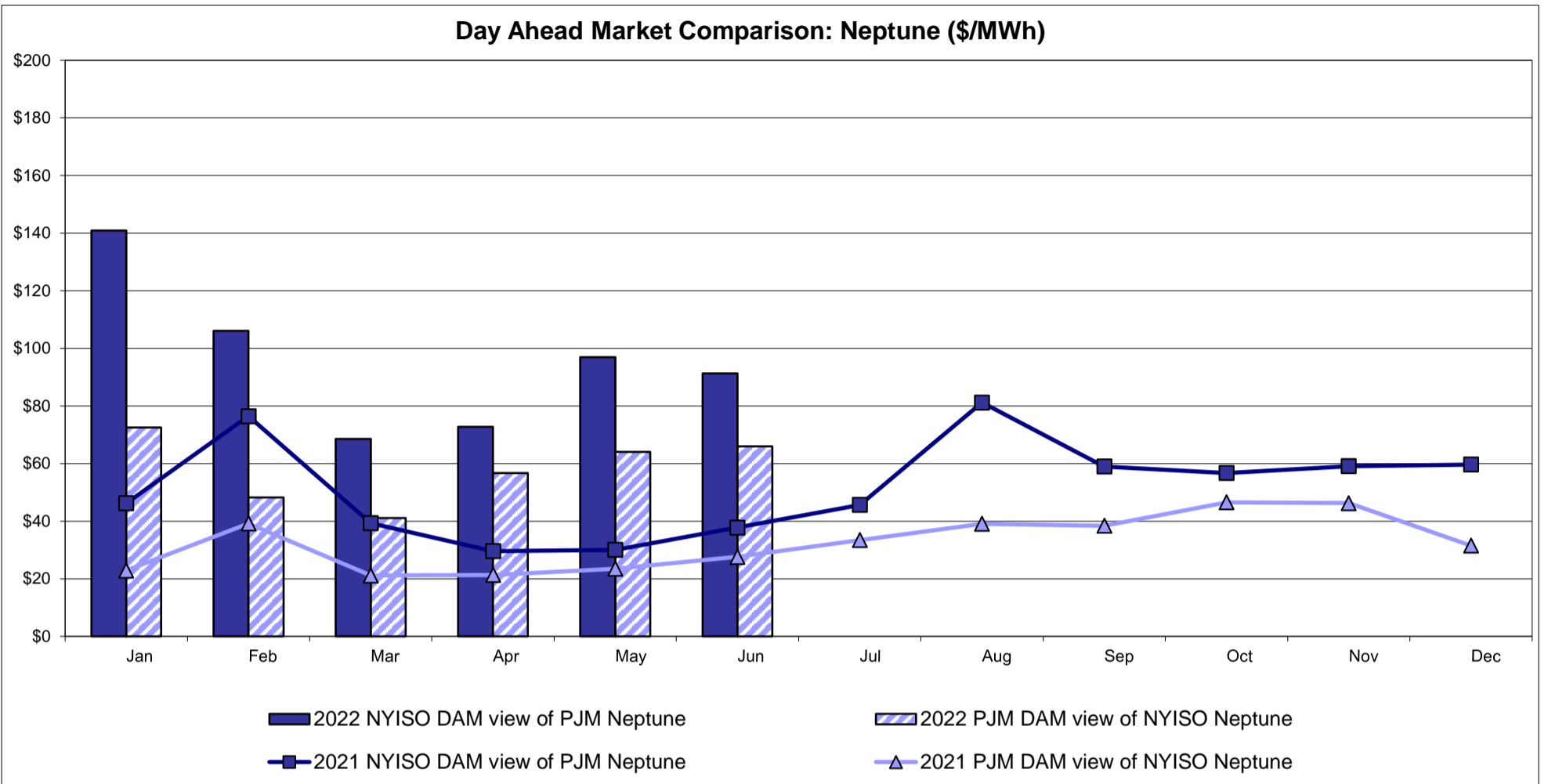
External Controllable Line: Northport - Norwalk (New England)



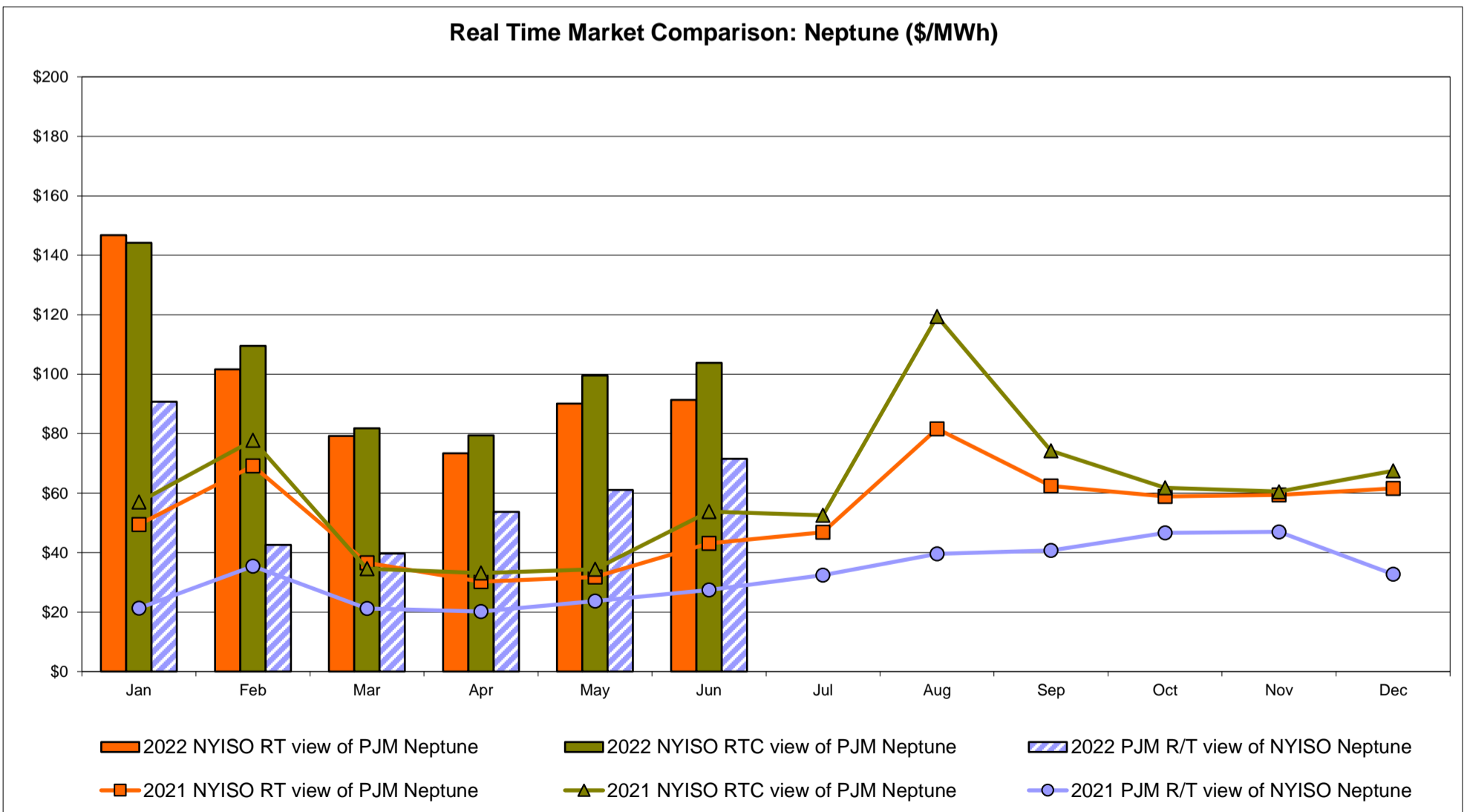
Note:
 ISO-NE Forecast is an advisory posting @ 18:00 day before.
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
 The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

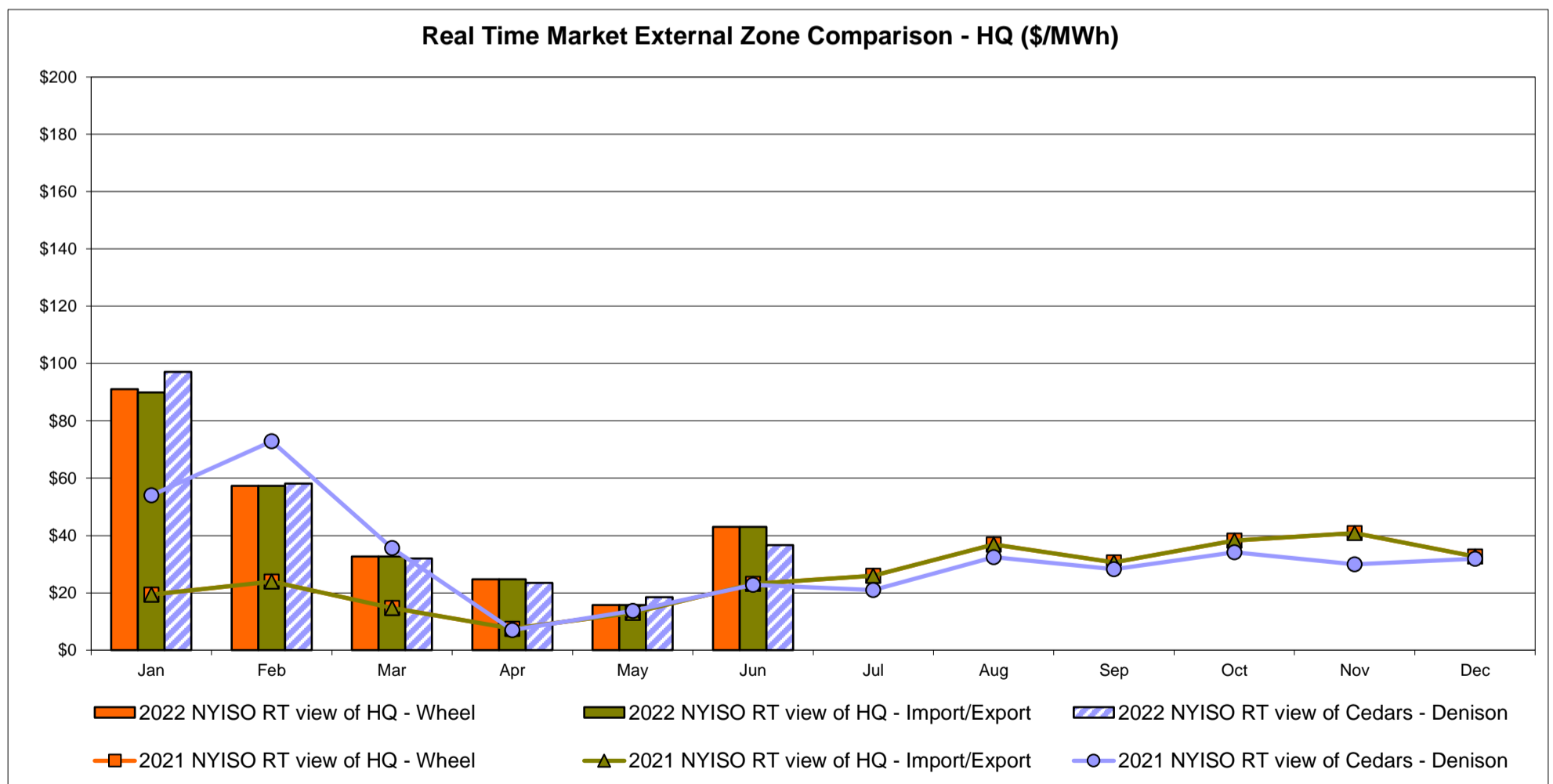
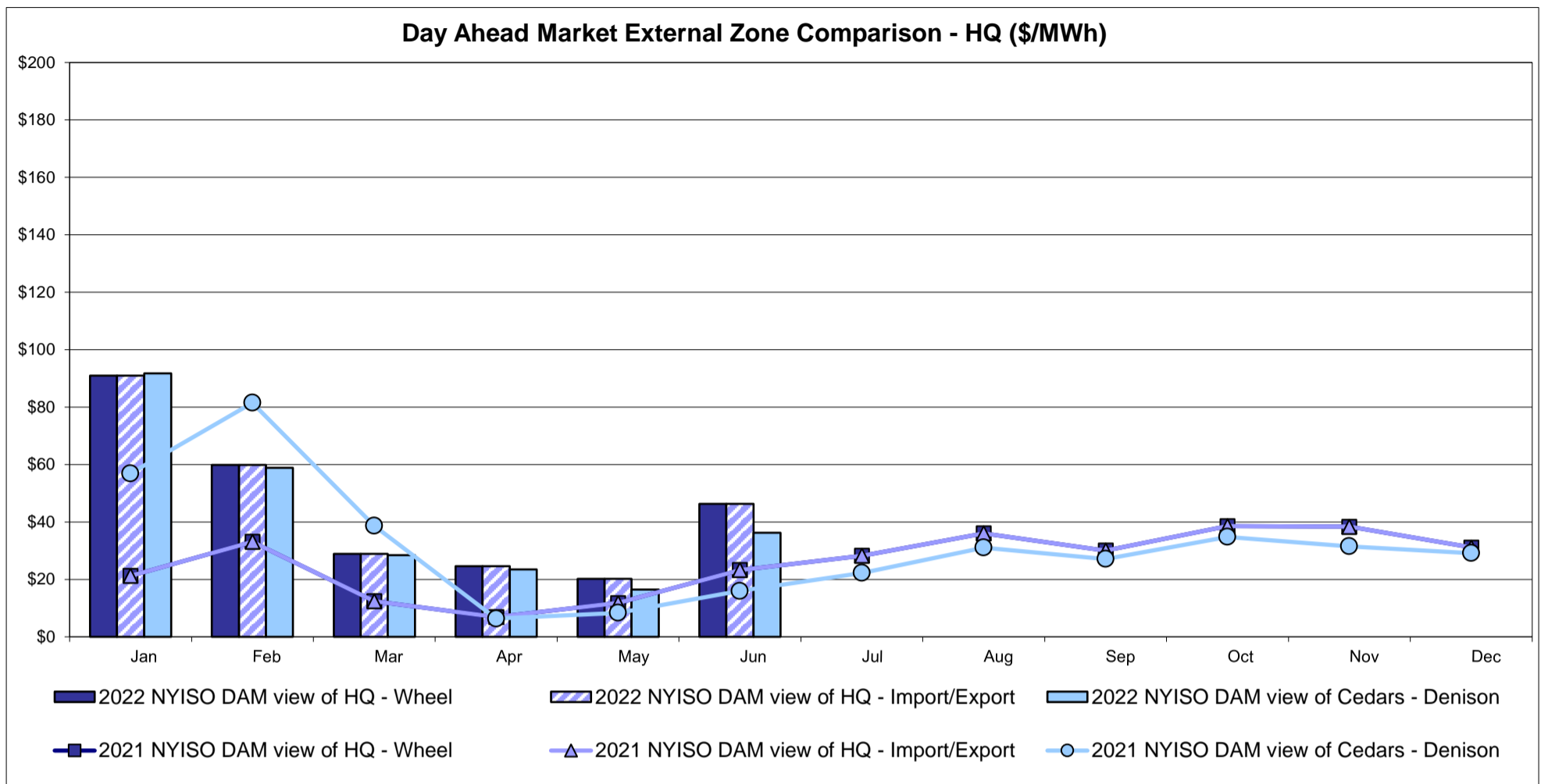
Day Ahead Market Comparison: Neptune (\$/MWh)



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

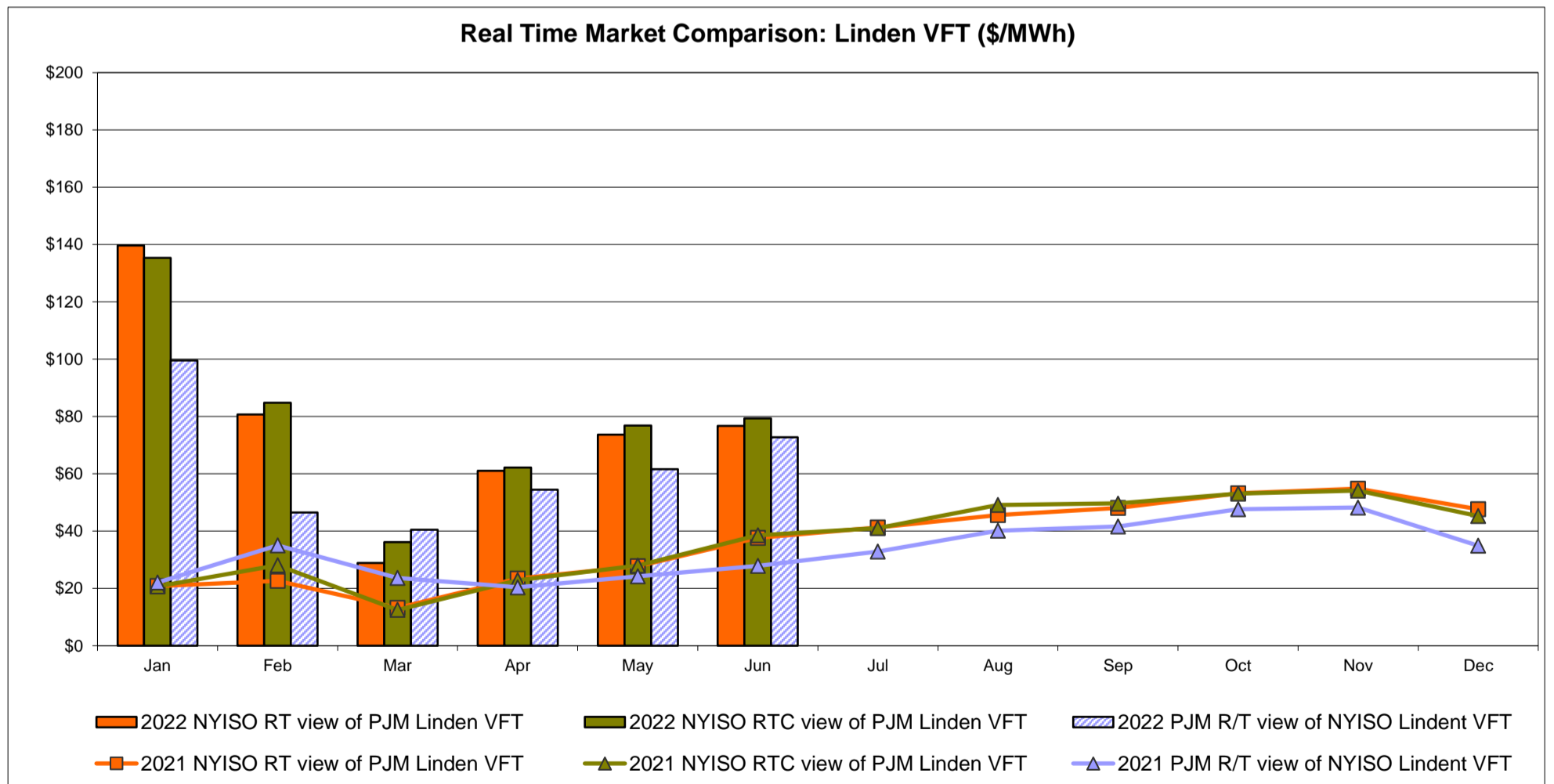
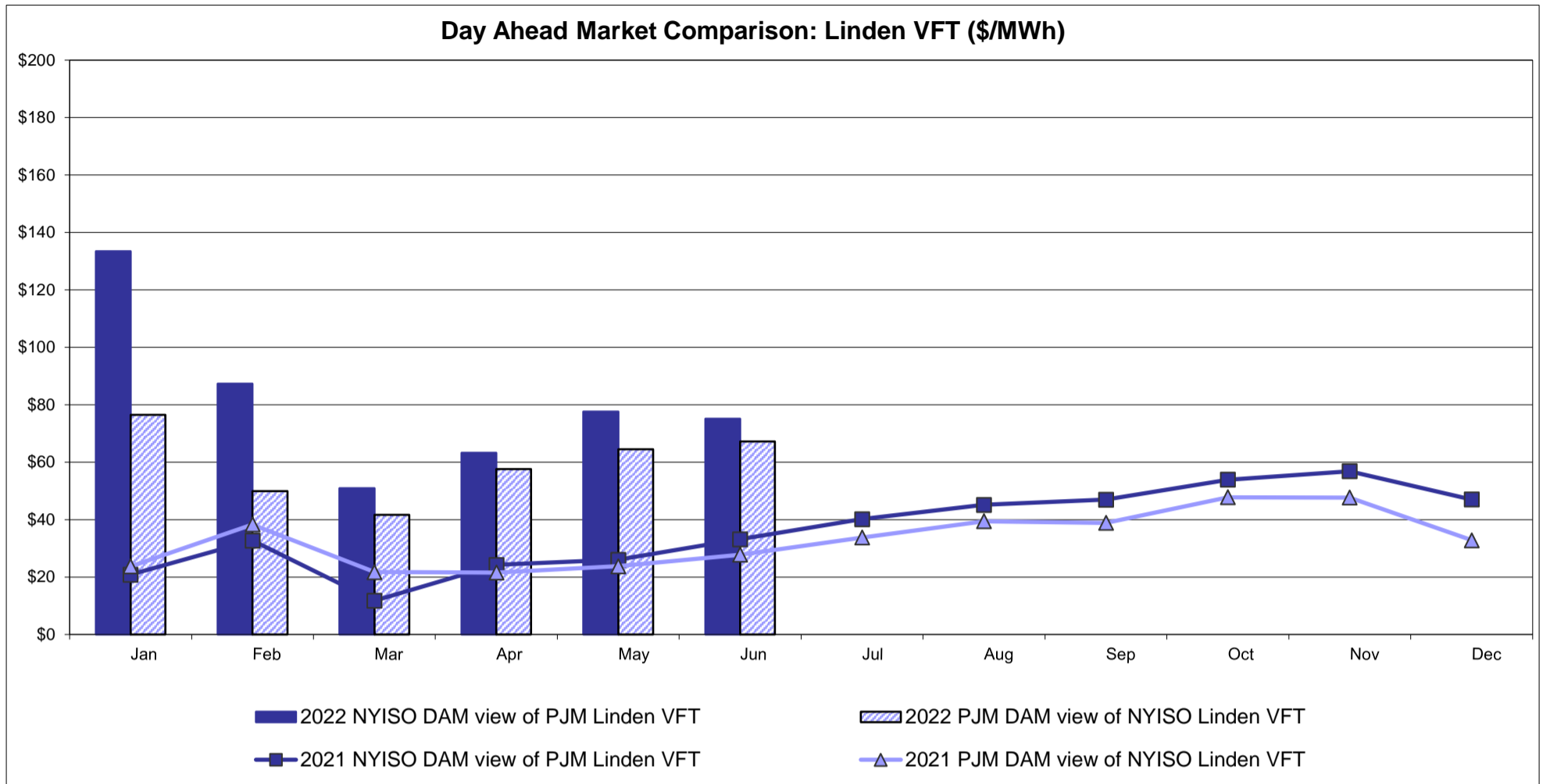


External Comparison Hydro-Quebec

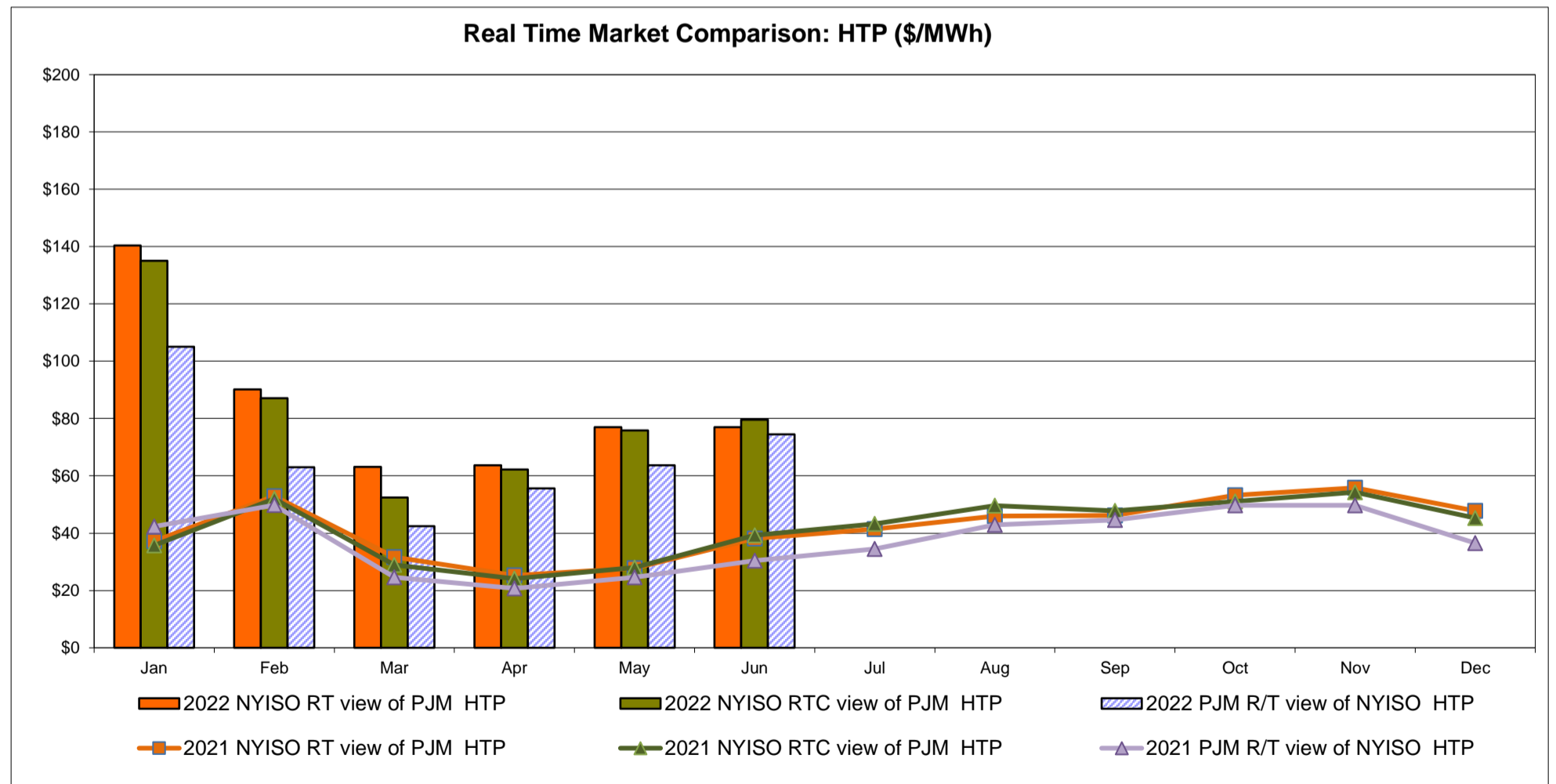
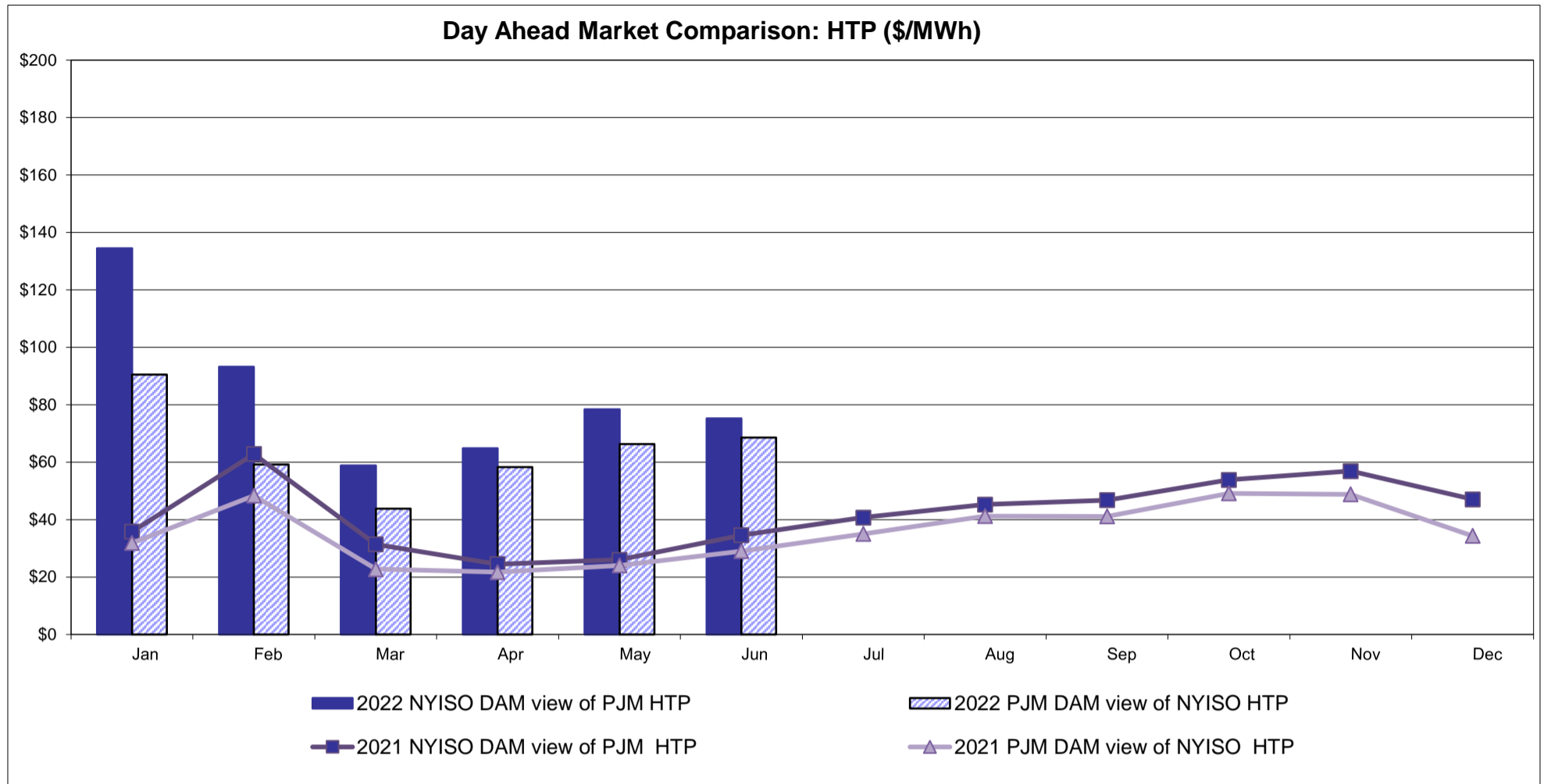


Note:
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

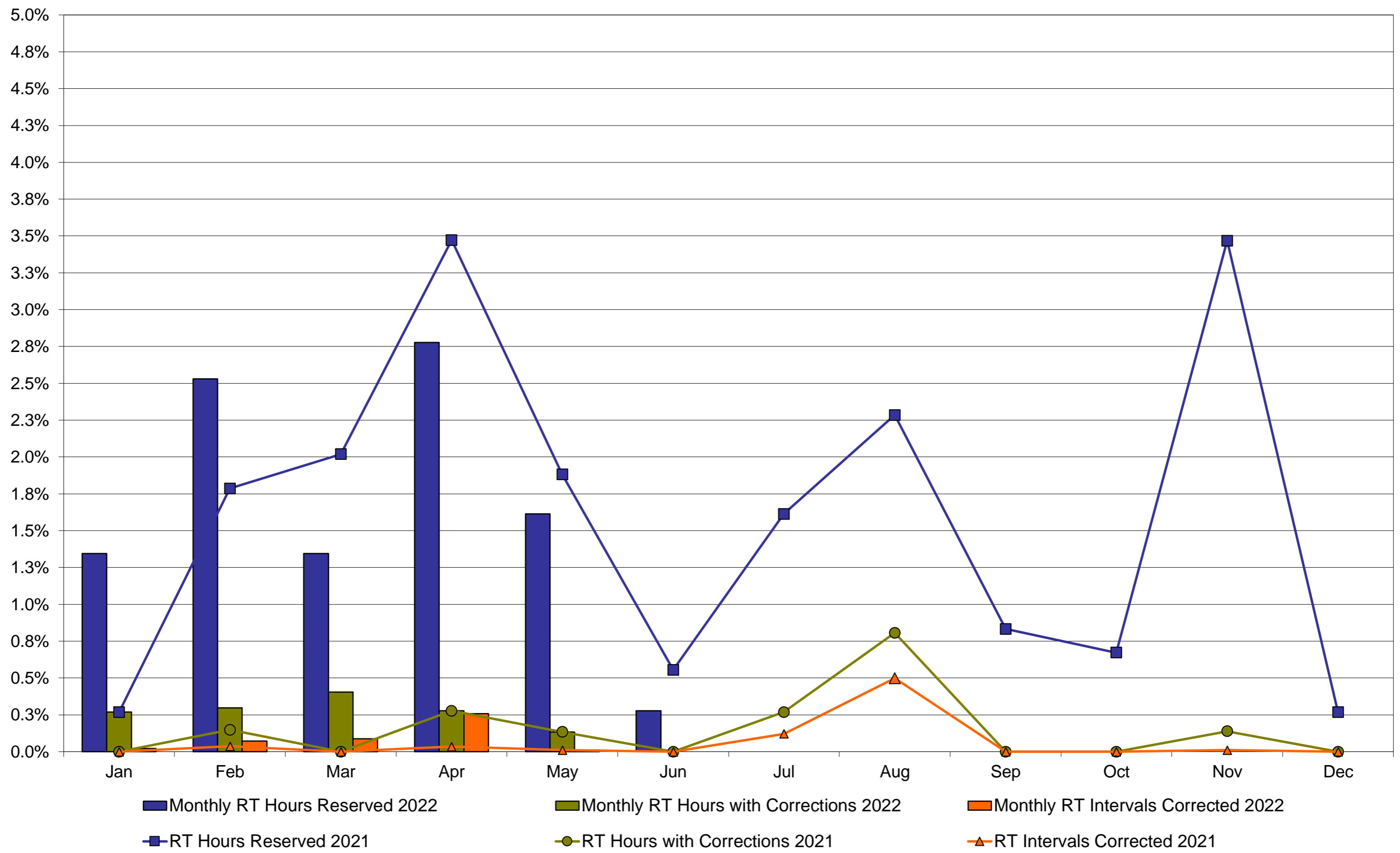


NYISO Real Time Price Correction Statistics

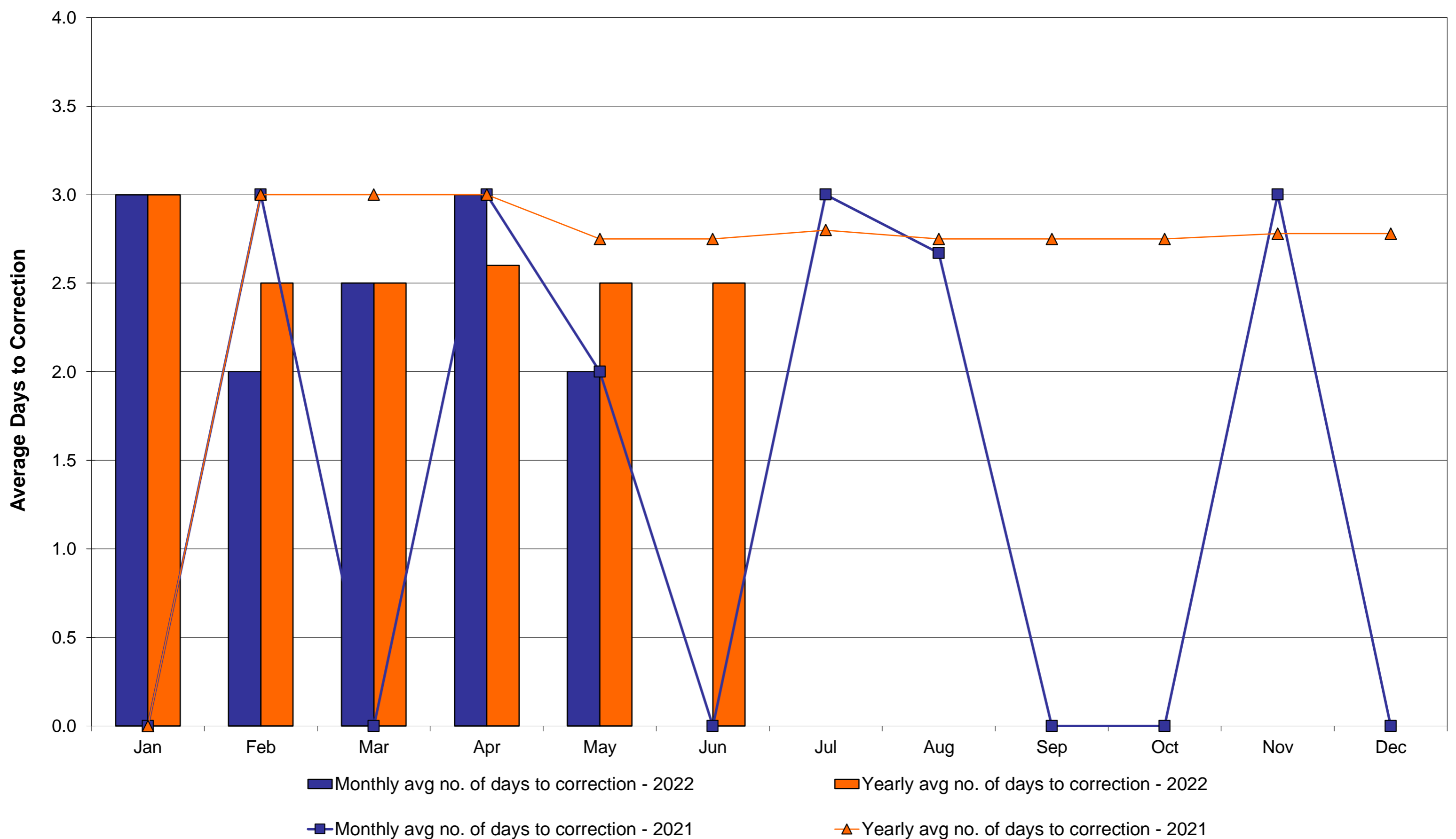
| 2022 | | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|-----------------------------------|--------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| Hour Corrections | | | | | | | | | | | | | |
| Number of hours with corrections | in the month | 2 | 2 | 3 | 2 | 1 | 0 | | | | | | |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | 720 | | | | | | |
| % of hours with corrections | in the month | 0.27% | 0.30% | 0.40% | 0.28% | 0.13% | 0.00% | | | | | | |
| % of hours with corrections | year-to-date | 0.27% | 0.28% | 0.32% | 0.31% | 0.28% | 0.23% | | | | | | |
| Interval Corrections | | | | | | | | | | | | | |
| Number of intervals corrected | in the month | 2 | 6 | 8 | 23 | 1 | 0 | | | | | | |
| Number of intervals | in the month | 9,258 | 8,338 | 9,118 | 8,908 | 9,181 | 8,864 | | | | | | |
| % of intervals corrected | in the month | 0.02% | 0.07% | 0.09% | 0.26% | 0.01% | 0.00% | | | | | | |
| % of intervals corrected | year-to-date | 0.02% | 0.05% | 0.06% | 0.11% | 0.09% | 0.07% | | | | | | |
| Hours Reserved | | | | | | | | | | | | | |
| Number of hours reserved | in the month | 10 | 17 | 10 | 20 | 12 | 2 | | | | | | |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | 720 | | | | | | |
| % of hours reserved | in the month | 1.34% | 2.53% | 1.35% | 2.78% | 1.61% | 0.28% | | | | | | |
| % of hours reserved | year-to-date | 1.34% | 1.91% | 1.71% | 1.98% | 1.90% | 1.63% | | | | | | |
| Days to Correction * | | | | | | | | | | | | | |
| Avg. number of days to correction | in the month | 3.00 | 2.00 | 2.50 | 3.00 | 2.00 | 0.00 | | | | | | |
| Avg. number of days to correction | year-to-date | 3.00 | 2.50 | 2.50 | 2.60 | 2.50 | 2.50 | | | | | | |
| Days Without Corrections | | | | | | | | | | | | | |
| Days without corrections | in the month | 30 | 27 | 29 | 29 | 30 | 30 | | | | | | |
| Days without corrections | year-to-date | 30 | 57 | 86 | 115 | 145 | 175 | | | | | | |
| 2021 | | <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> |
| Hour Corrections | | | | | | | | | | | | | |
| Number of hours with corrections | in the month | 0 | 1 | 0 | 2 | 1 | 0 | 2 | 6 | 0 | 0 | 1 | 0 |
| 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 | 0.00% | 0.15% | 0.00% | 0.28% | 0.13% | 0.00% | 0.27% | 0.81% | 0.00% | 0.00% | 0.14% | 0.00% |
| % of hours with corrections | year-to-date | 0.00% | 0.07% | 0.05% | 0.10% | 0.11% | 0.09% | 0.12% | 0.21% | 0.18% | 0.16% | 0.16% | 0.15% |
| Interval Corrections | | | | | | | | | | | | | |
| Number of intervals corrected | in the month | 0 | 3 | 0 | 3 | 1 | 0 | 11 | 45 | 0 | 0 | 1 | 0 |
| Number of intervals | in the month | 9,095 | 8,236 | 9,100 | 8,827 | 9,157 | 8,813 | 9,084 | 9,024 | 8,783 | 9,133 | 8,802 | 9,063 |
| % of intervals corrected | in the month | 0.00% | 0.04% | 0.00% | 0.03% | 0.01% | 0.00% | 0.12% | 0.50% | 0.00% | 0.00% | 0.01% | 0.00% |
| % of intervals corrected | year-to-date | 0.00% | 0.02% | 0.01% | 0.02% | 0.02% | 0.01% | 0.03% | 0.09% | 0.08% | 0.07% | 0.07% | 0.06% |
| Hours Reserved | | | | | | | | | | | | | |
| Number of hours reserved | in the month | 2 | 12 | 15 | 25 | 14 | 4 | 12 | 17 | 6 | 5 | 25 | 2 |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 |
| % of hours reserved | in the month | 0.27% | 1.79% | 2.02% | 3.47% | 1.88% | 0.56% | 1.61% | 2.28% | 0.83% | 0.67% | 3.47% | 0.27% |
| % of hours reserved | year-to-date | 0.27% | 0.99% | 1.34% | 1.88% | 1.88% | 1.66% | 1.65% | 1.73% | 1.63% | 1.54% | 1.71% | 1.59% |
| Days to Correction * | | | | | | | | | | | | | |
| Avg. number of days to correction | in the month | 0.00 | 3.00 | 0.00 | 3.00 | 2.00 | 0.00 | 3.00 | 2.67 | 0.00 | 0.00 | 3.00 | 0.00 |
| Avg. number of days to correction | year-to-date | 0.00 | 3.00 | 3.00 | 3.00 | 2.75 | 2.75 | 2.80 | 2.75 | 2.75 | 2.75 | 2.78 | 2.78 |
| Days Without Corrections | | | | | | | | | | | | | |
| Days without corrections | in the month | 31 | 27 | 31 | 28 | 30 | 30 | 30 | 28 | 30 | 31 | 29 | 31 |
| Days without corrections | year-to-date | 31 | 58 | 89 | 117 | 147 | 177 | 207 | 235 | 265 | 296 | 325 | 356 |

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

Percentage of Real-Time Corrections

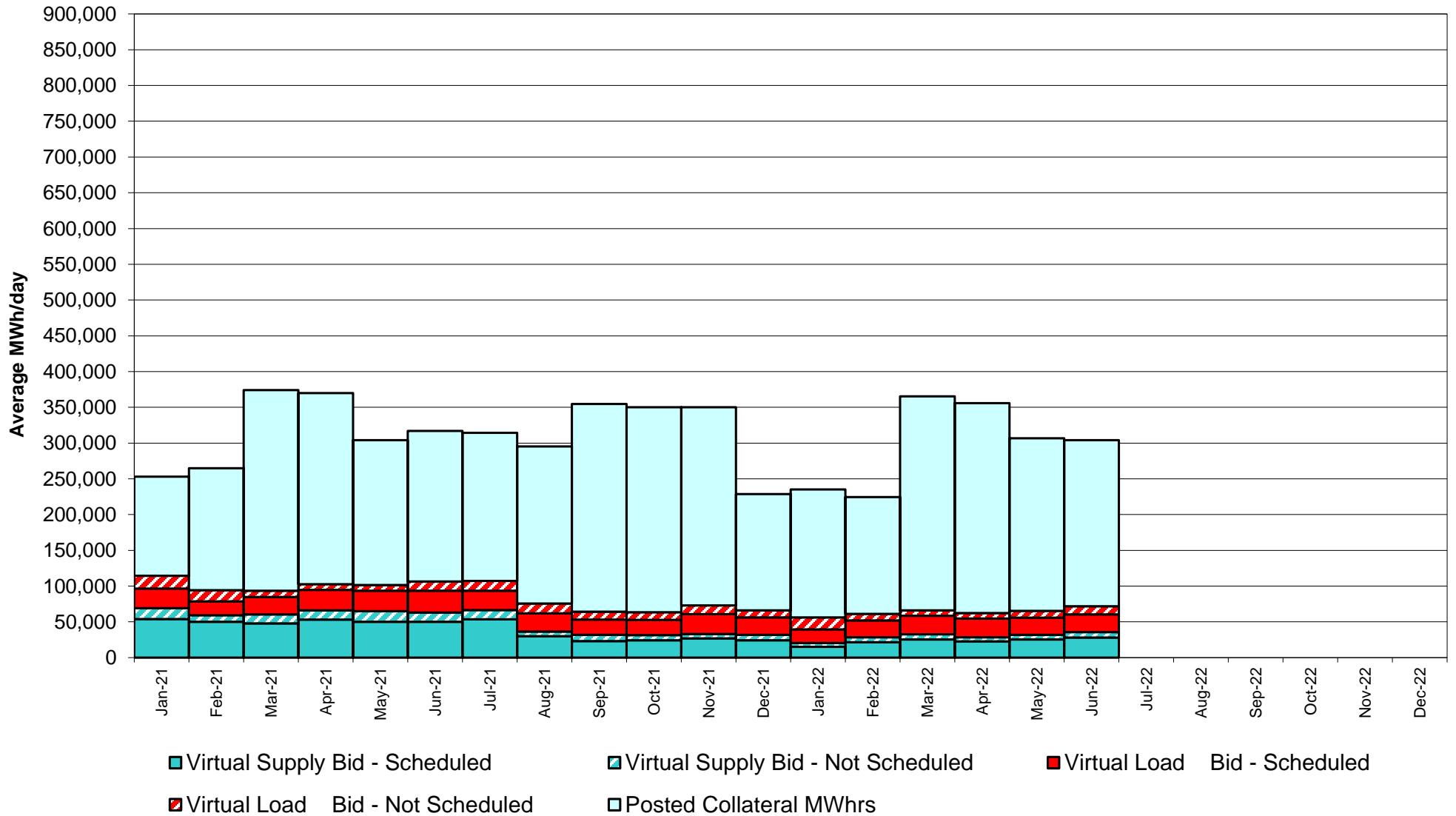


Annual average time period for making Price Corrections (from reservation date) *

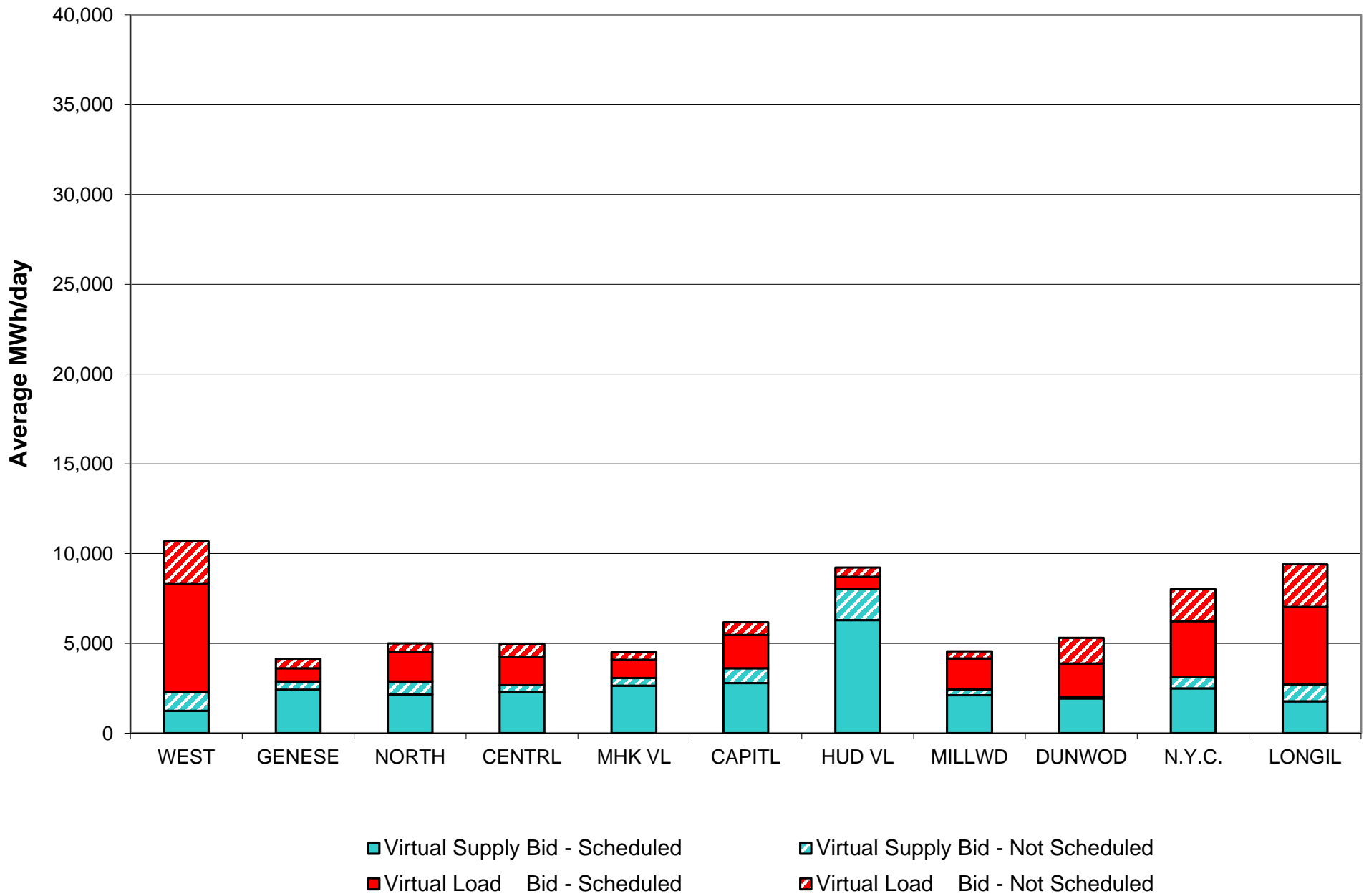


*Calendar days from reservation date; for June 2018 forward, business days from market date

NYISO Virtual Trading Average MWh per day



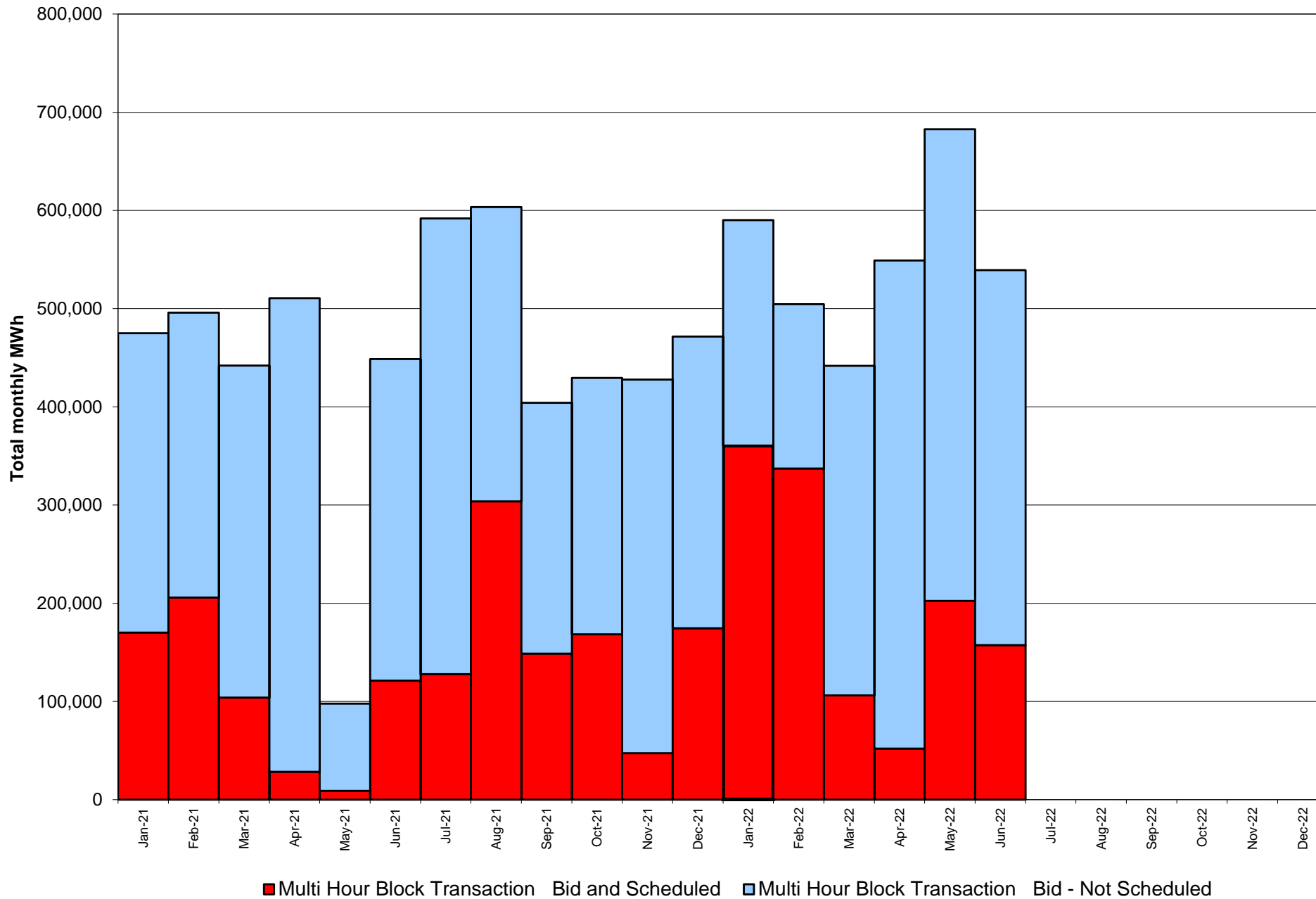
Virtual Load and Supply Zonal Statistics through June 30, 2022



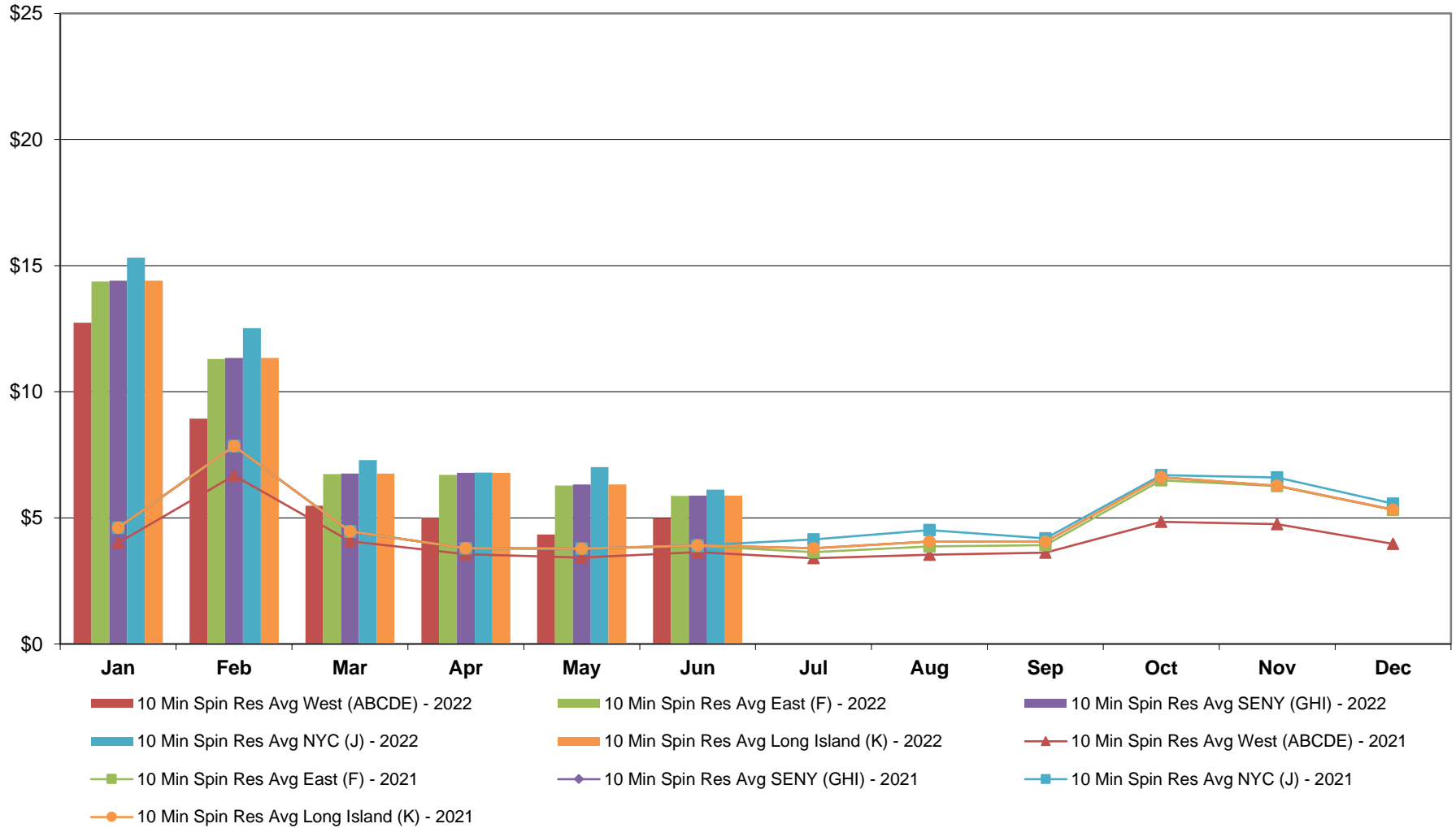
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2022

| | | 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 |
| WEST | Jan-22 | 2,754 | 1,900 | 2,076 | 1,276 | MHK VL | Jan-22 | 722 | 621 | 1,245 | 204 | DUNWOD | Jan-22 | 1,376 | 1,851 | 652 | 54 |
| | Feb-22 | 2,773 | 1,170 | 3,027 | 908 | | Feb-22 | 1,830 | 386 | 1,518 | 349 | | Feb-22 | 1,696 | 1,004 | 1,218 | 86 |
| | Mar-22 | 3,702 | 830 | 2,480 | 526 | | Mar-22 | 2,263 | 131 | 1,506 | 371 | | Mar-22 | 1,427 | 954 | 1,944 | 68 |
| | Apr-22 | 3,967 | 1,016 | 2,214 | 402 | | Apr-22 | 1,848 | 208 | 1,483 | 379 | | Apr-22 | 2,229 | 1,069 | 1,219 | 46 |
| | May-22 | 5,740 | 1,247 | 1,473 | 670 | | May-22 | 1,108 | 254 | 2,338 | 538 | | May-22 | 1,752 | 1,335 | 1,505 | 58 |
| | Jun-22 | 6,049 | 2,343 | 1,239 | 1,048 | | Jun-22 | 1,021 | 423 | 2,636 | 425 | | Jun-22 | 1,859 | 1,430 | 1,940 | 77 |
| | Jul-22 | | | | | | Jul-22 | | | | | | Jul-22 | | | | |
| | Aug-22 | | | | | | Aug-22 | | | | | | Aug-22 | | | | |
| | Sep-22 | | | | | | Sep-22 | | | | | | Sep-22 | | | | |
| | Oct-22 | | | | | | Oct-22 | | | | | | Oct-22 | | | | |
| | Nov-22 | | | | | | Nov-22 | | | | | | Nov-22 | | | | |
| | Dec-22 | | | | | | Dec-22 | | | | | | Dec-22 | | | | |
| GENESE | Jan-22 | 722 | 464 | 1,058 | 319 | CAPITL | Jan-22 | 2,536 | 2,157 | 749 | 695 | N.Y.C. | Jan-22 | 2,341 | 3,279 | 1,155 | 349 |
| | Feb-22 | 853 | 293 | 1,560 | 395 | | Feb-22 | 3,700 | 1,211 | 1,075 | 785 | | Feb-22 | 2,889 | 1,668 | 1,938 | 607 |
| | Mar-22 | 1,615 | 190 | 1,176 | 265 | | Mar-22 | 2,660 | 1,045 | 1,450 | 879 | | Mar-22 | 1,769 | 1,526 | 2,728 | 629 |
| | Apr-22 | 1,226 | 244 | 1,415 | 354 | | Apr-22 | 1,761 | 610 | 2,274 | 843 | | Apr-22 | 1,341 | 1,172 | 2,530 | 492 |
| | May-22 | 994 | 302 | 2,104 | 636 | | May-22 | 2,118 | 868 | 2,609 | 669 | | May-22 | 2,215 | 1,517 | 2,425 | 405 |
| | Jun-22 | 728 | 542 | 2,426 | 453 | | Jun-22 | 1,856 | 697 | 2,784 | 832 | | Jun-22 | 3,113 | 1,786 | 2,501 | 613 |
| | Jul-22 | | | | | | Jul-22 | | | | | | Jul-22 | | | | |
| | Aug-22 | | | | | | Aug-22 | | | | | | Aug-22 | | | | |
| | Sep-22 | | | | | | Sep-22 | | | | | | Sep-22 | | | | |
| | Oct-22 | | | | | | Oct-22 | | | | | | Oct-22 | | | | |
| | Nov-22 | | | | | | Nov-22 | | | | | | Nov-22 | | | | |
| | Dec-22 | | | | | | Dec-22 | | | | | | Dec-22 | | | | |
| NORTH | Jan-22 | 938 | 469 | 1,778 | 643 | HUD VL | Jan-22 | 1,062 | 1,130 | 3,738 | 1,083 | LONGIL | Jan-22 | 4,217 | 2,685 | 601 | 241 |
| | Feb-22 | 1,019 | 231 | 1,899 | 887 | | Feb-22 | 1,288 | 390 | 5,143 | 1,806 | | Feb-22 | 4,110 | 1,658 | 1,021 | 355 |
| | Mar-22 | 1,192 | 148 | 2,020 | 699 | | Mar-22 | 960 | 308 | 7,017 | 2,760 | | Mar-22 | 5,091 | 1,935 | 1,581 | 408 |
| | Apr-22 | 1,046 | 165 | 2,180 | 885 | | Apr-22 | 1,400 | 172 | 5,721 | 1,227 | | Apr-22 | 4,736 | 2,343 | 918 | 469 |
| | May-22 | 1,501 | 233 | 1,889 | 1,039 | | May-22 | 1,035 | 300 | 5,637 | 889 | | May-22 | 3,361 | 2,766 | 2,045 | 554 |
| | Jun-22 | 1,641 | 492 | 2,160 | 710 | | Jun-22 | 697 | 518 | 6,290 | 1,725 | | Jun-22 | 4,316 | 2,375 | 1,773 | 941 |
| | Jul-22 | | | | | | Jul-22 | | | | | | Jul-22 | | | | |
| | Aug-22 | | | | | | Aug-22 | | | | | | Aug-22 | | | | |
| | Sep-22 | | | | | | Sep-22 | | | | | | Sep-22 | | | | |
| | Oct-22 | | | | | | Oct-22 | | | | | | Oct-22 | | | | |
| | Nov-22 | | | | | | Nov-22 | | | | | | Nov-22 | | | | |
| | Dec-22 | | | | | | Dec-22 | | | | | | Dec-22 | | | | |
| CENTRL | Jan-22 | 1,317 | 1,284 | 1,104 | 364 | MILLWD | Jan-22 | 1,104 | 654 | 867 | 262 | NYISO | Jan-22 | 19,089 | 16,494 | 15,023 | 5,489 |
| | Feb-22 | 1,665 | 499 | 1,780 | 409 | | Feb-22 | 1,805 | 462 | 1,367 | 312 | | Feb-22 | 23,629 | 8,972 | 21,545 | 6,898 |
| | Mar-22 | 3,731 | 251 | 1,490 | 338 | | Mar-22 | 1,413 | 234 | 2,038 | 338 | | Mar-22 | 25,823 | 7,554 | 25,430 | 7,281 |
| | Apr-22 | 4,837 | 390 | 1,415 | 307 | | Apr-22 | 2,136 | 172 | 1,257 | 309 | | Apr-22 | 26,526 | 7,560 | 22,626 | 5,713 |
| | May-22 | 2,265 | 267 | 1,845 | 543 | | May-22 | 2,011 | 277 | 1,628 | 269 | | May-22 | 24,099 | 9,366 | 25,500 | 6,269 |
| | Jun-22 | 1,597 | 718 | 2,303 | 368 | | Jun-22 | 1,725 | 393 | 2,111 | 320 | | Jun-22 | 24,602 | 11,717 | 28,164 | 7,511 |
| | Jul-22 | | | | | | Jul-22 | | | | | | Jul-22 | | | | |
| | Aug-22 | | | | | | Aug-22 | | | | | | Aug-22 | | | | |
| | Sep-22 | | | | | | Sep-22 | | | | | | Sep-22 | | | | |
| | Oct-22 | | | | | | Oct-22 | | | | | | Oct-22 | | | | |
| | Nov-22 | | | | | | Nov-22 | | | | | | Nov-22 | | | | |
| | Dec-22 | | | | | | Dec-22 | | | | | | Dec-22 | | | | |

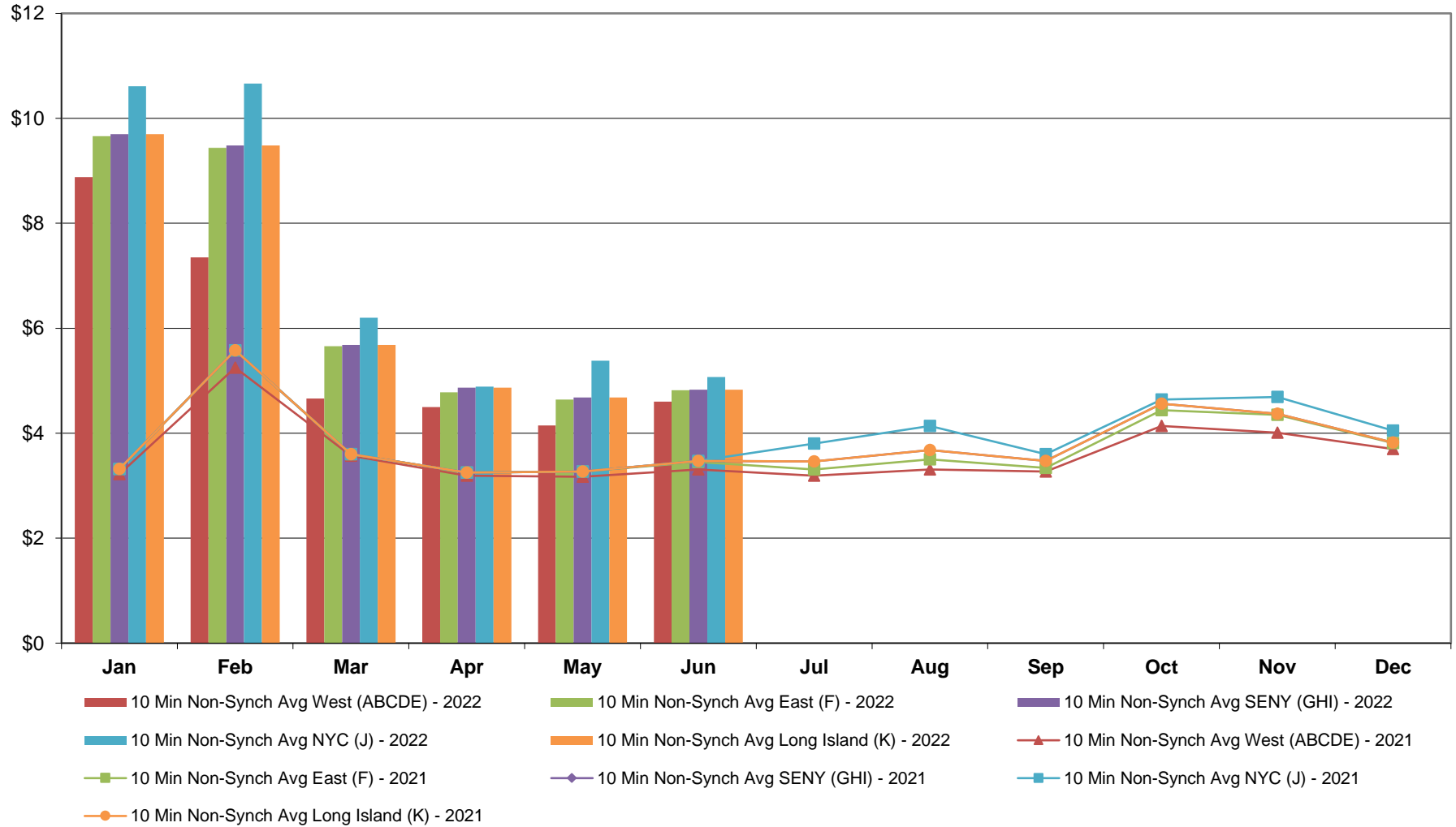
NYISO Multi Hour Block Transactions Monthly Total MWh



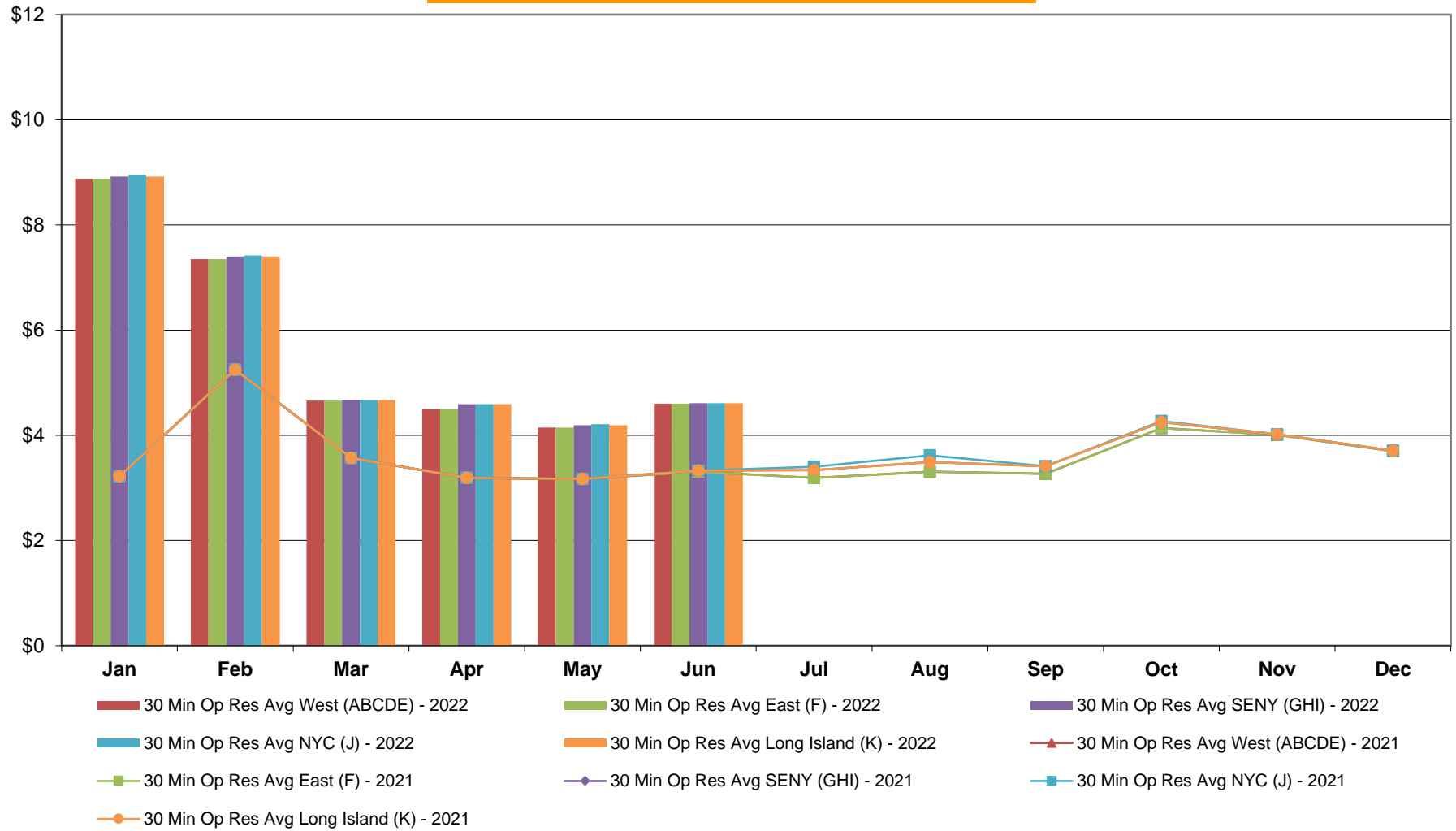
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - 10 Min Spin 2021 - 2022**



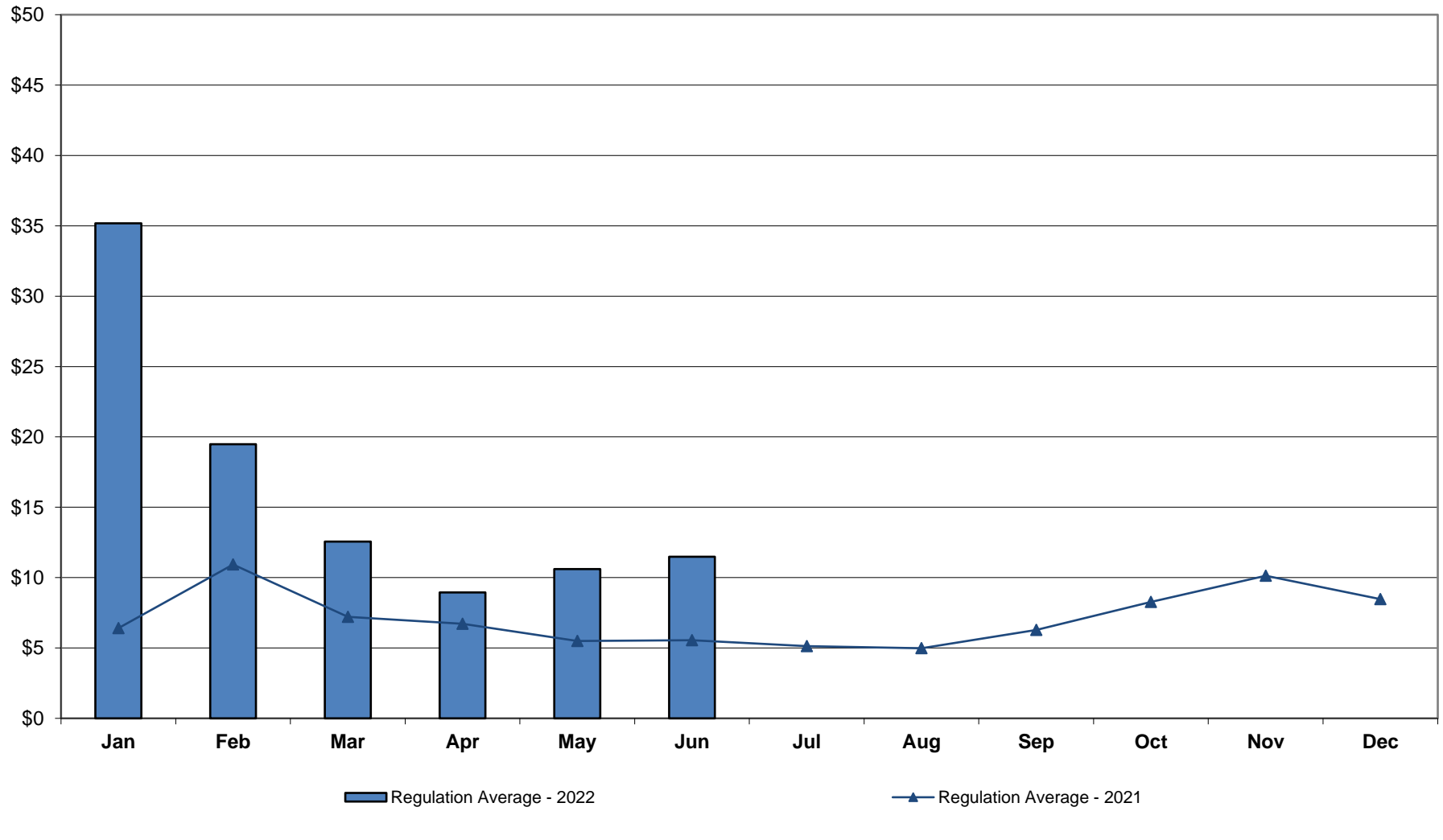
NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 10 Min Non-Synch 2021 - 2022



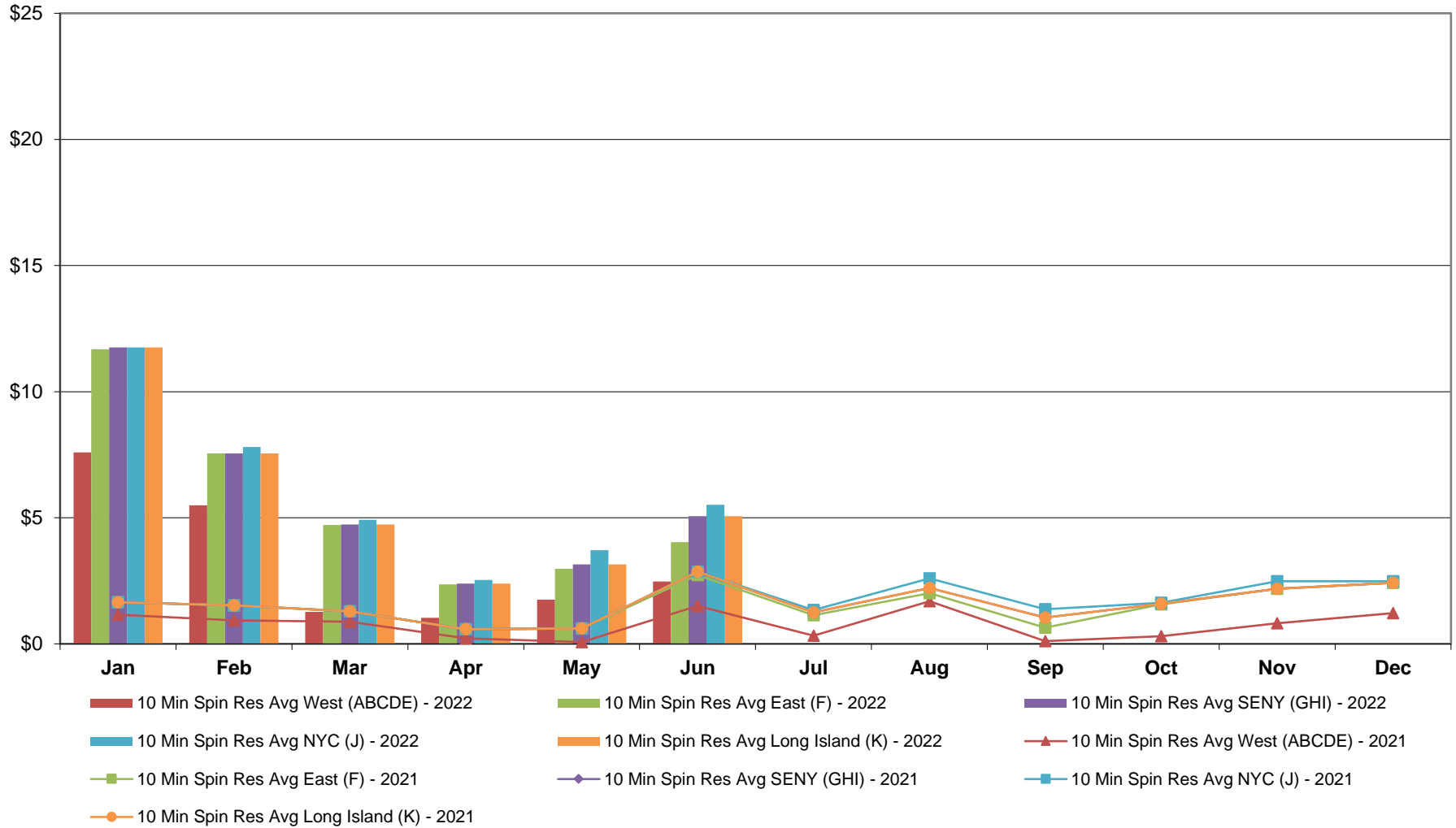
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - 30 Min Op Res 2021 - 2022**



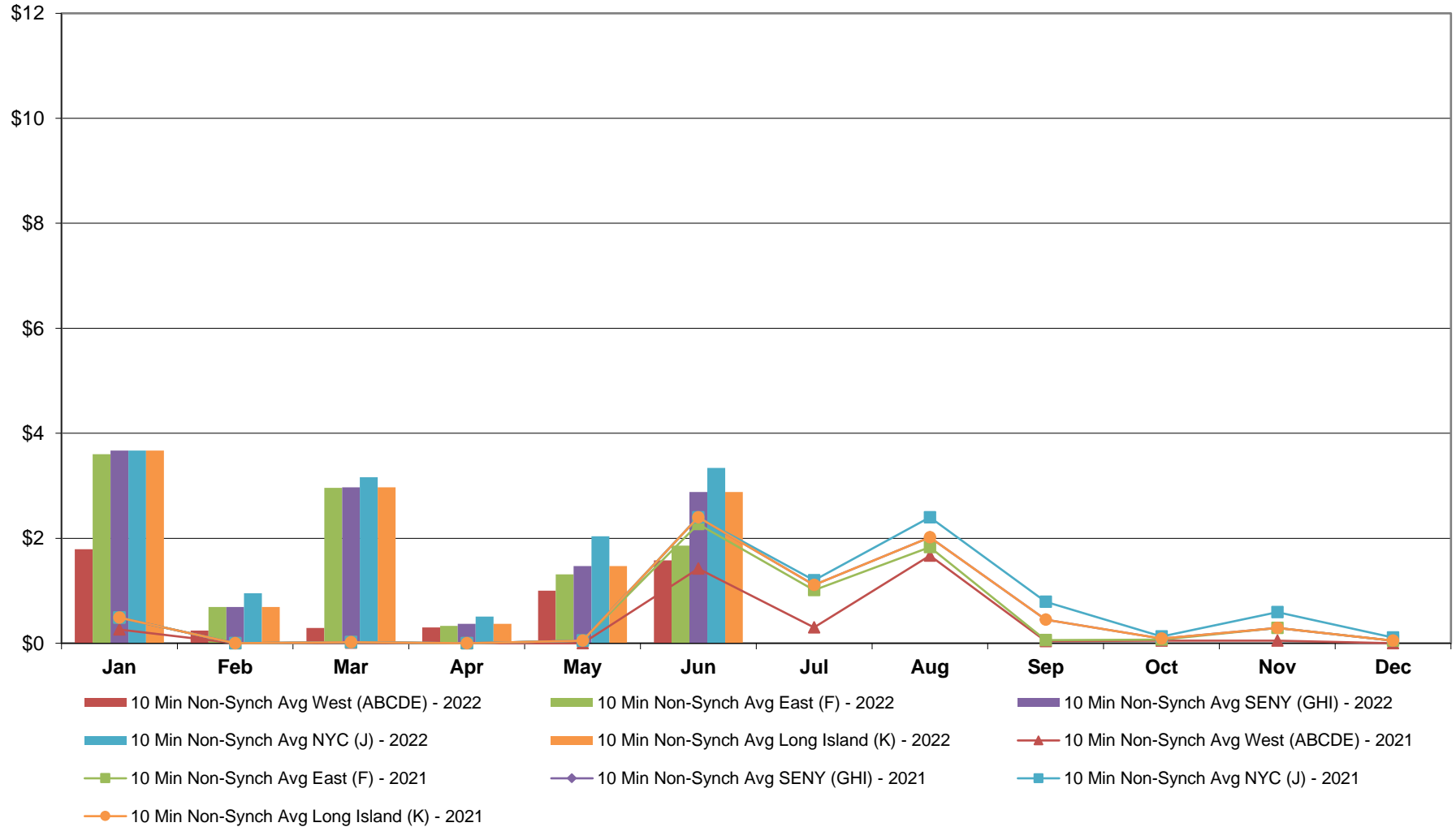
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - Regulation 2021 - 2022**



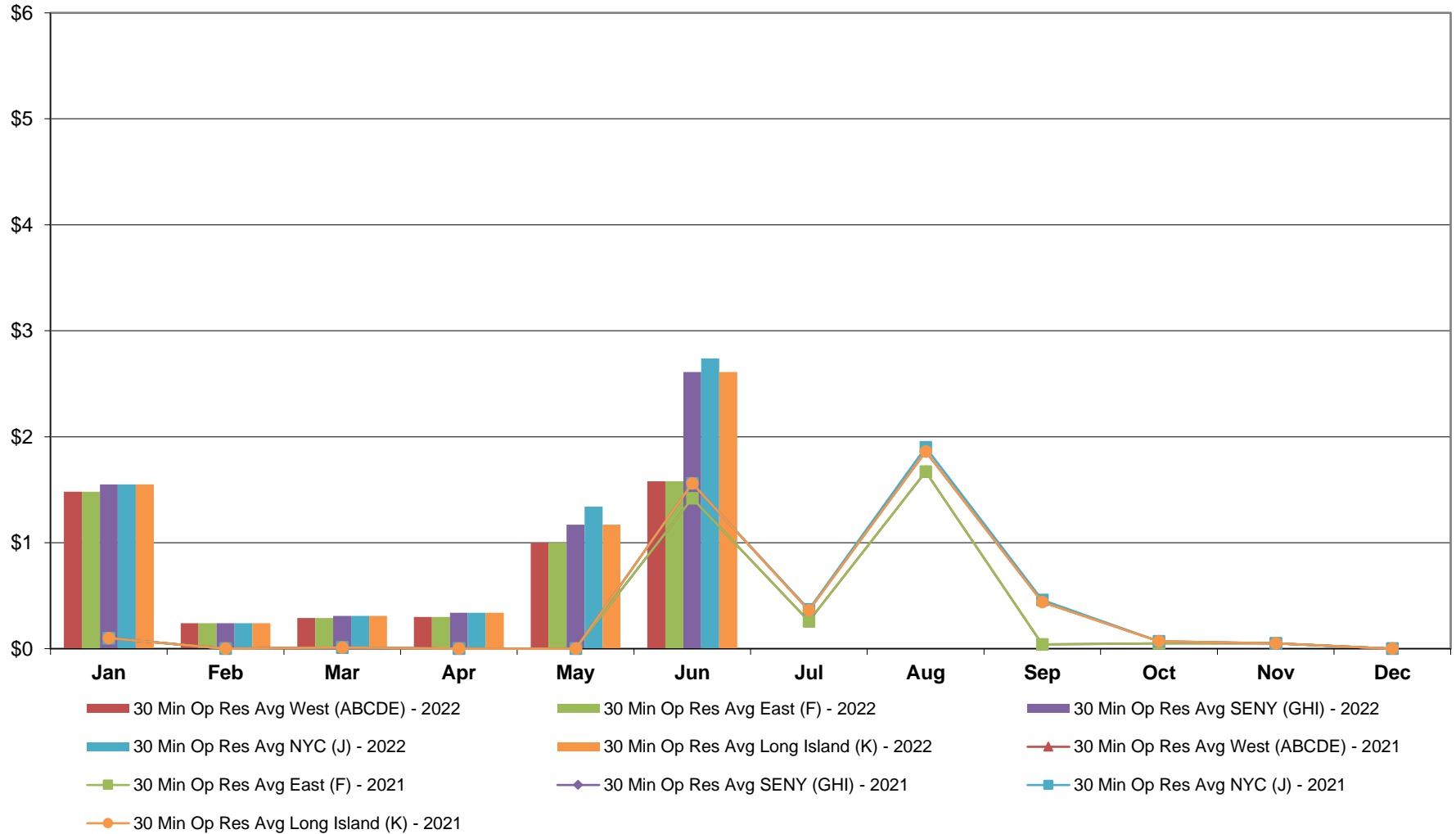
**NYISO Monthly Average Ancillary Service Prices
RTC Market - 10 Min Spin 2021 - 2022**



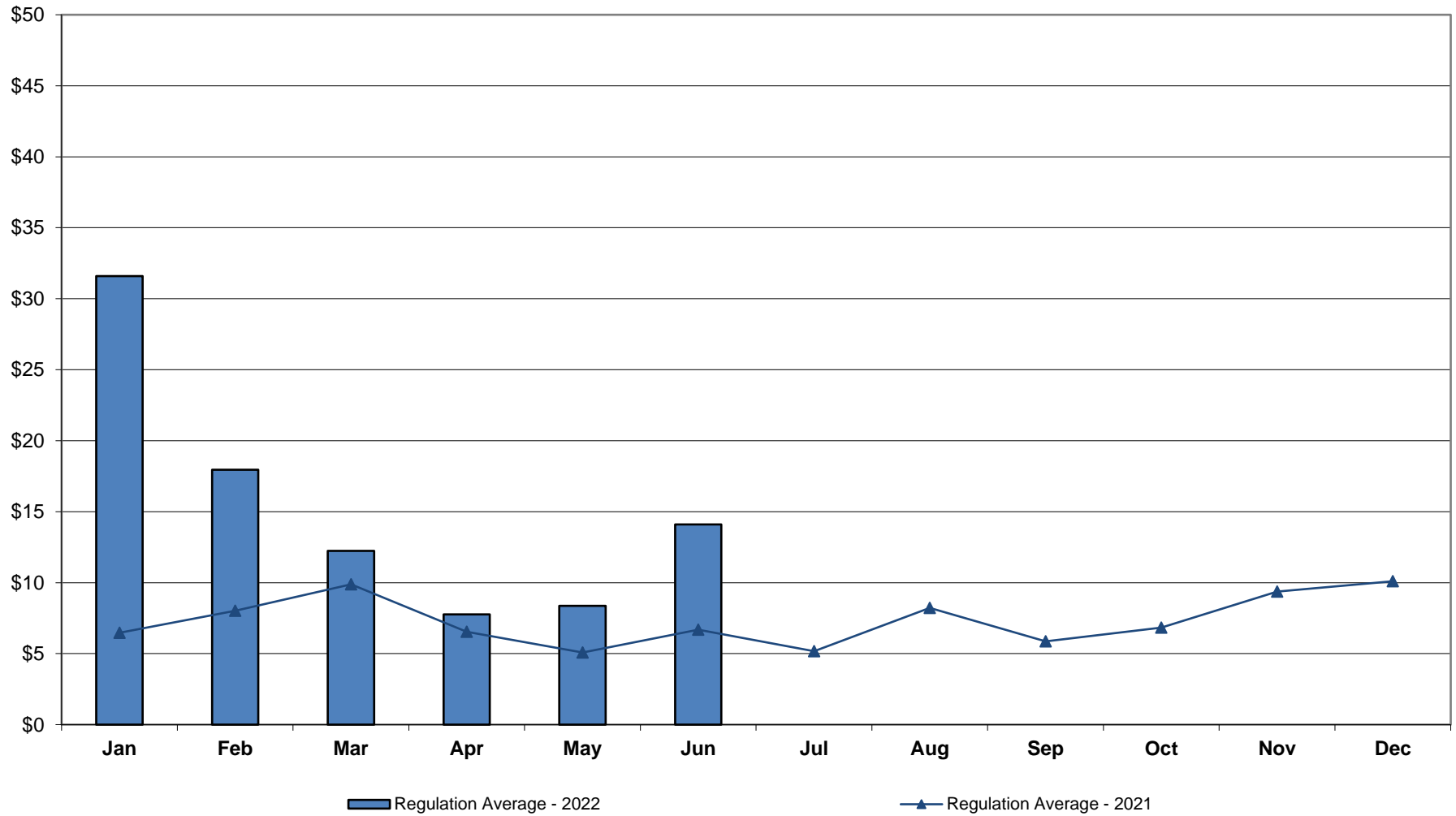
**NYISO Monthly Average Ancillary Service Prices
RTC Market - 10 Min Non-Synch 2021 - 2022**



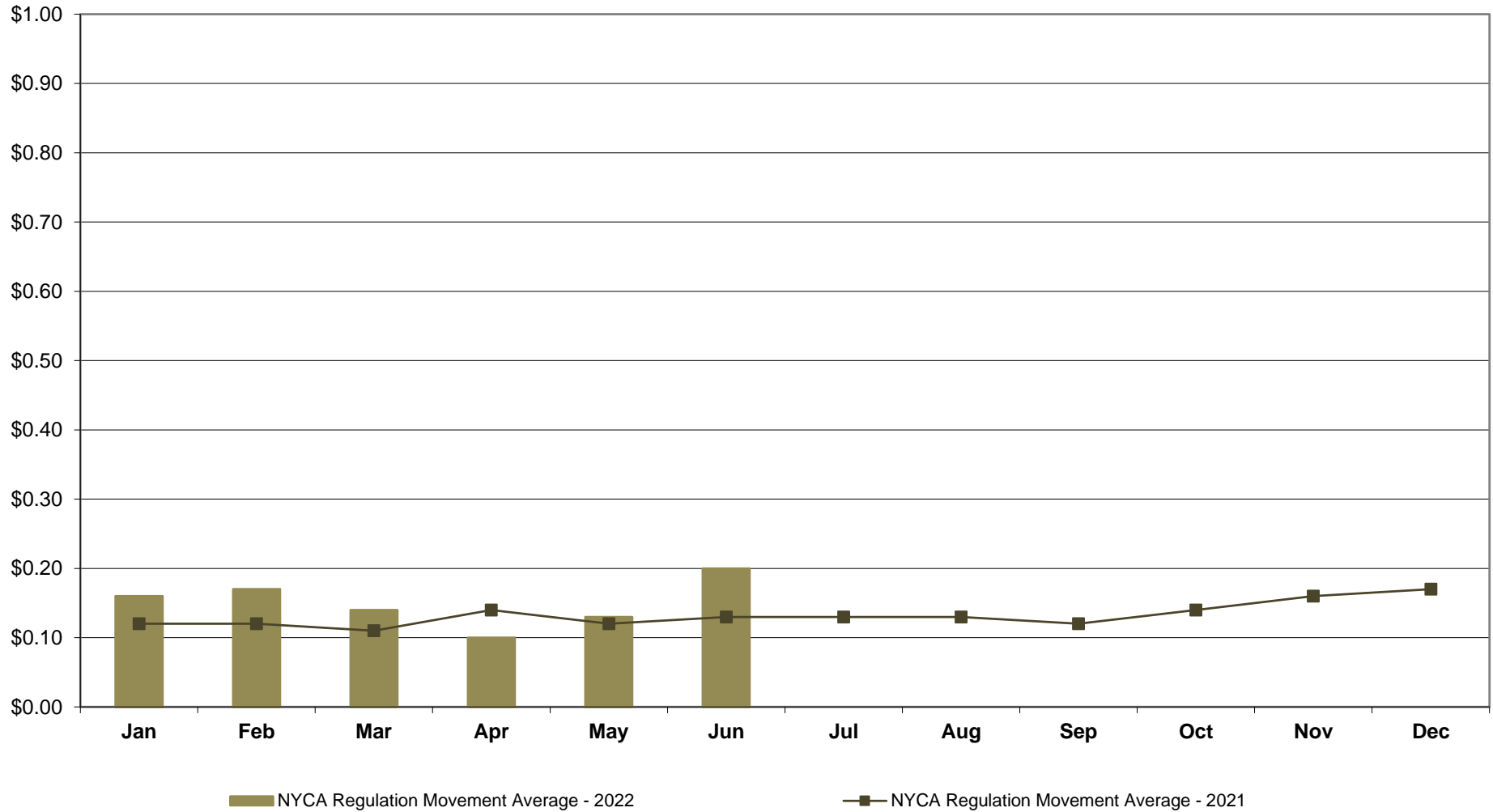
**NYISO Monthly Average Ancillary Service Prices
RTC Market - 30 Min Op Res 2021 - 2022**



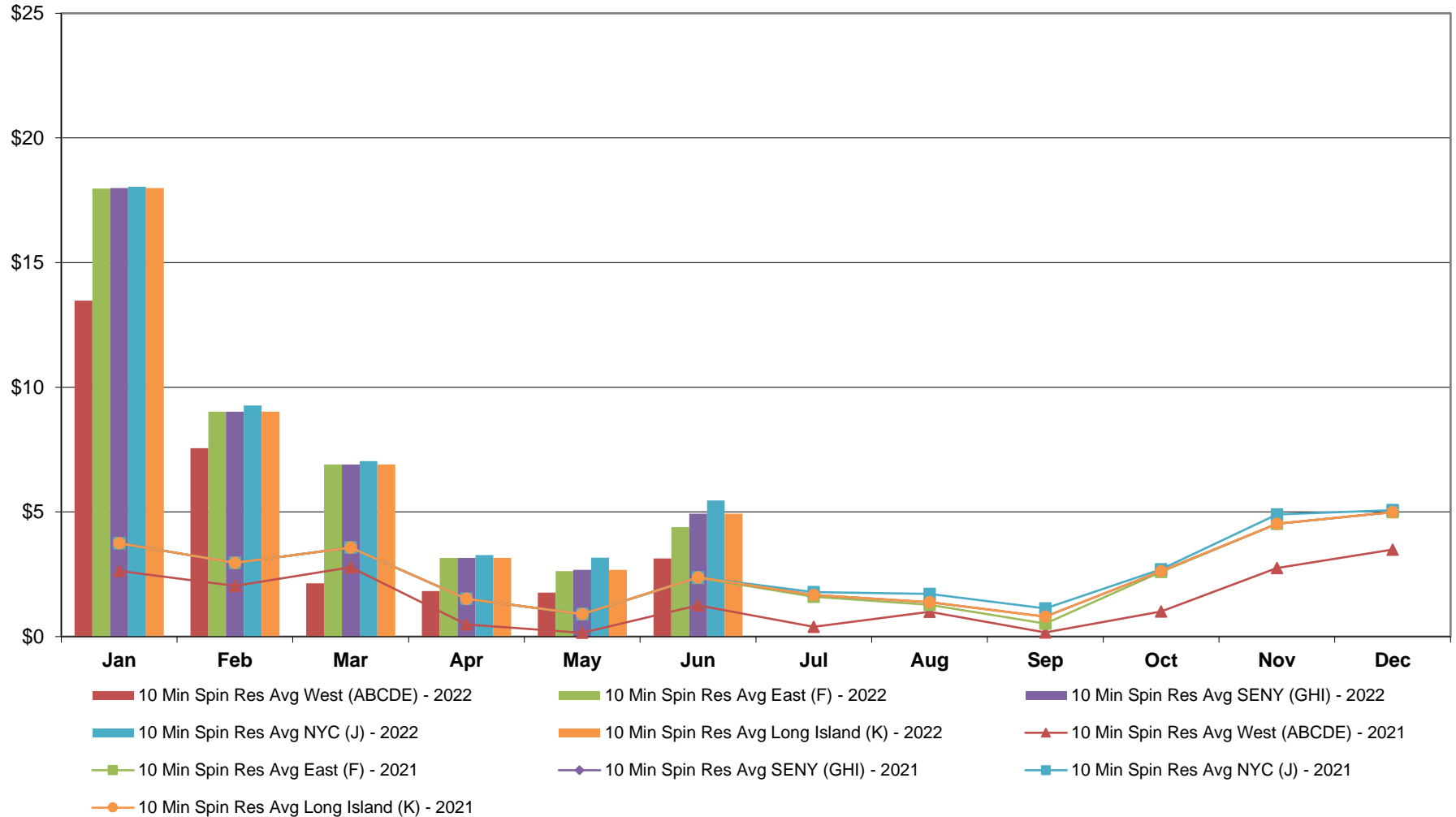
**NYISO Monthly Average Ancillary Service Prices
RTC Market - Regulation 2021 - 2022**



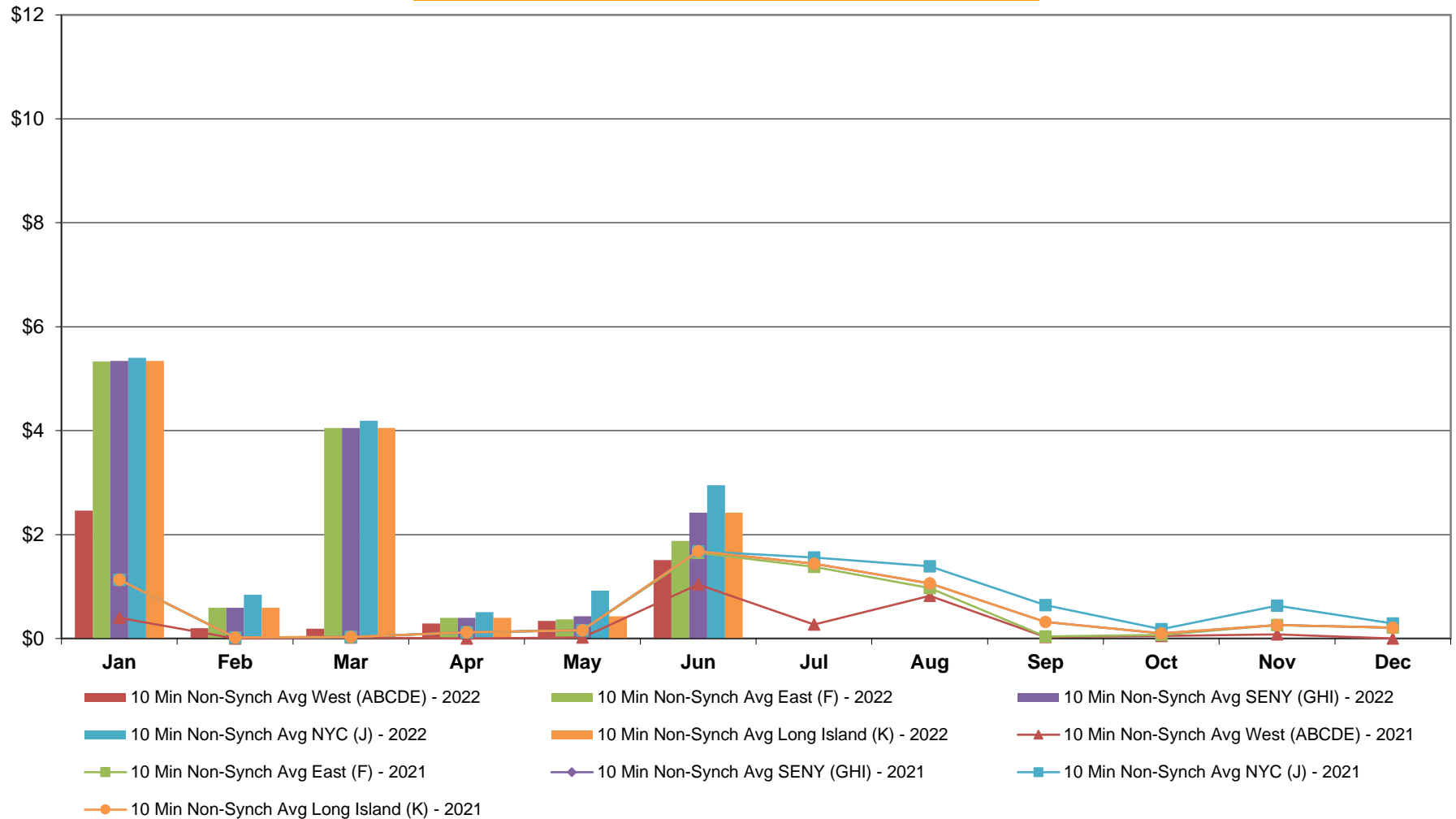
**NYISO Monthly Average Ancillary Service Prices
RTC Market - Regulation Movement 2021 - 2022**



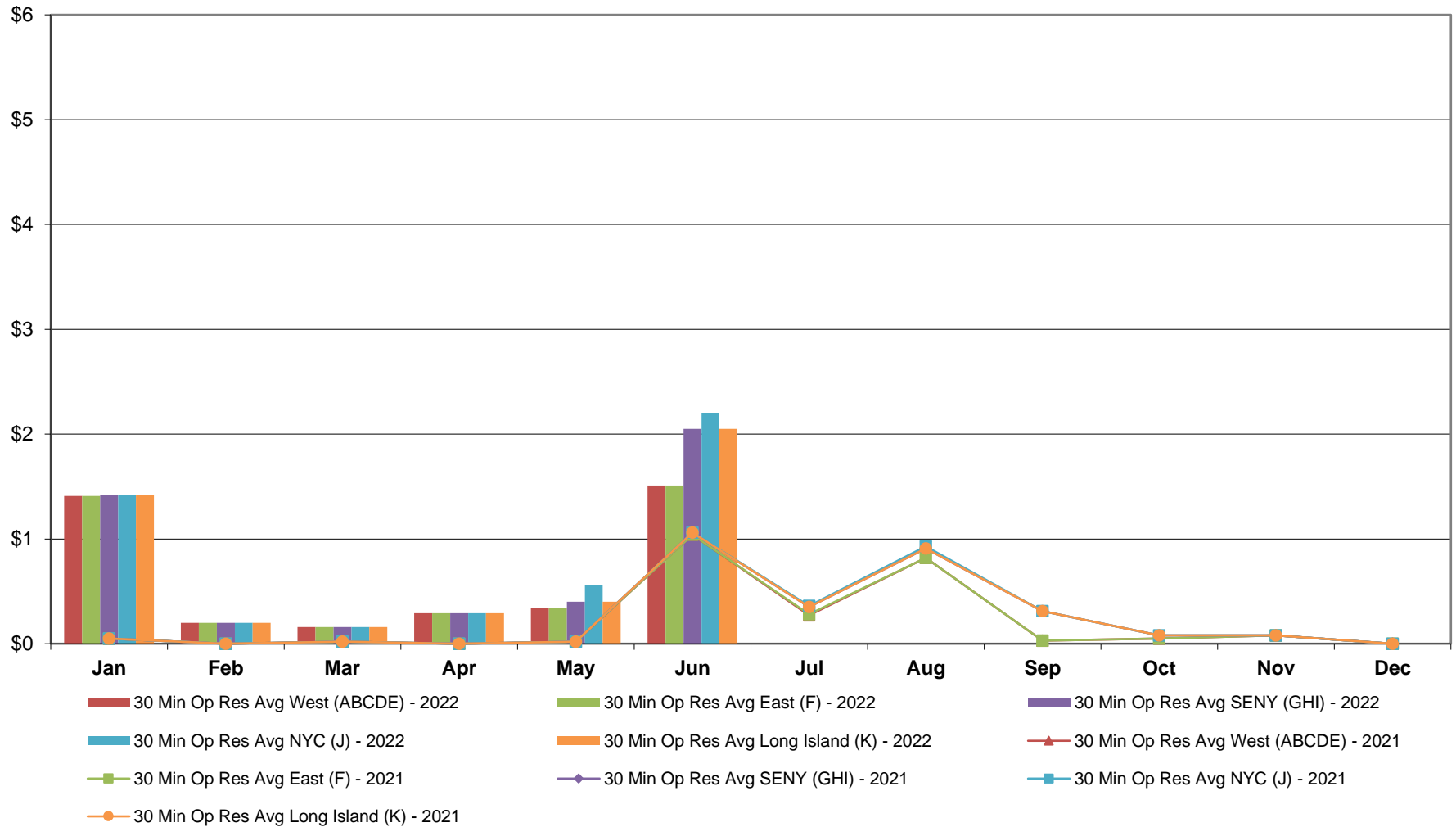
**NYISO Monthly Average Ancillary Service Prices
Real Time Market - 10 Min Spin 2021 - 2022**



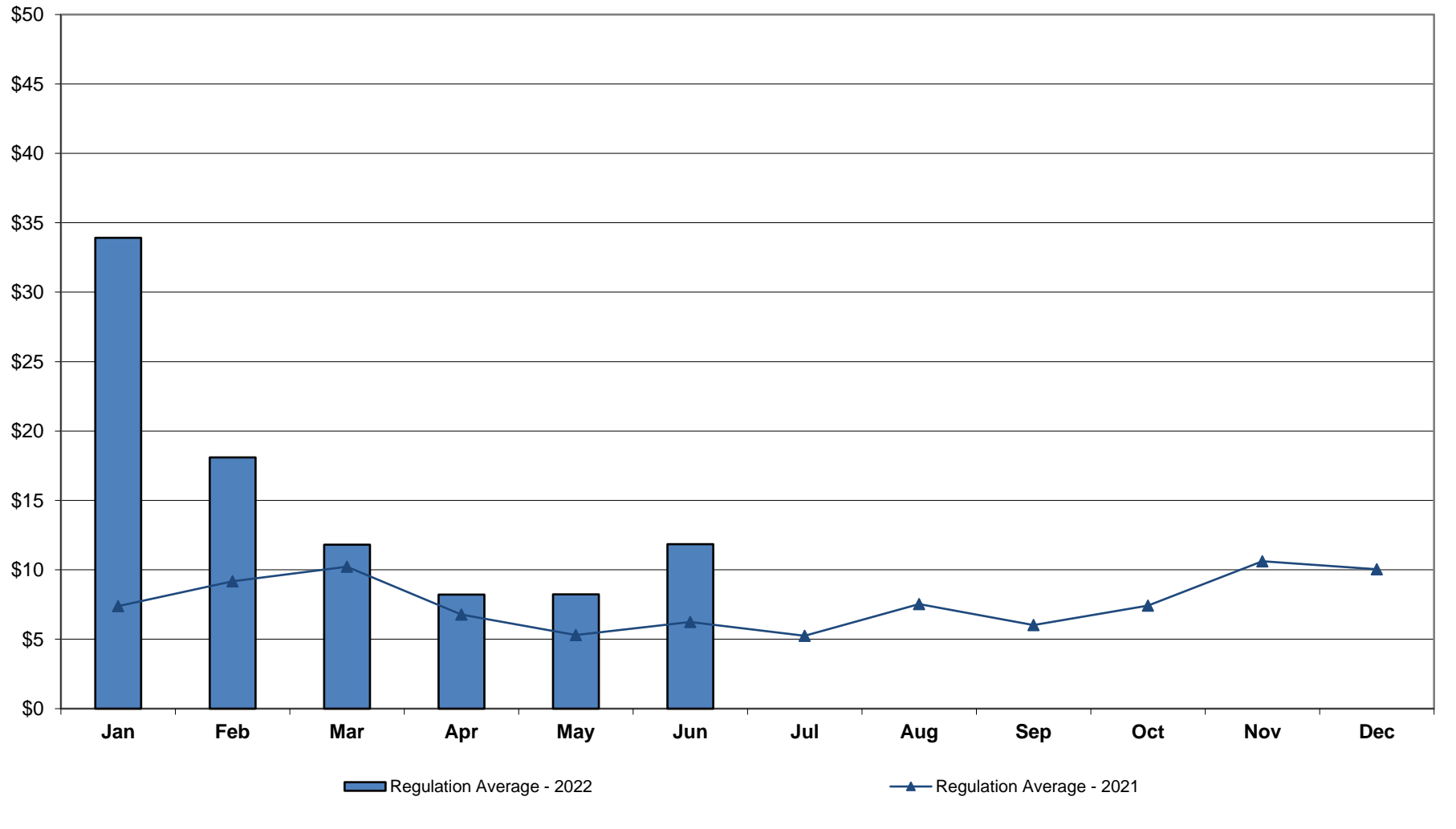
**NYISO Monthly Average Ancillary Service Prices
Real Time Market - 10 Min Non-Synch 2021 - 2022**



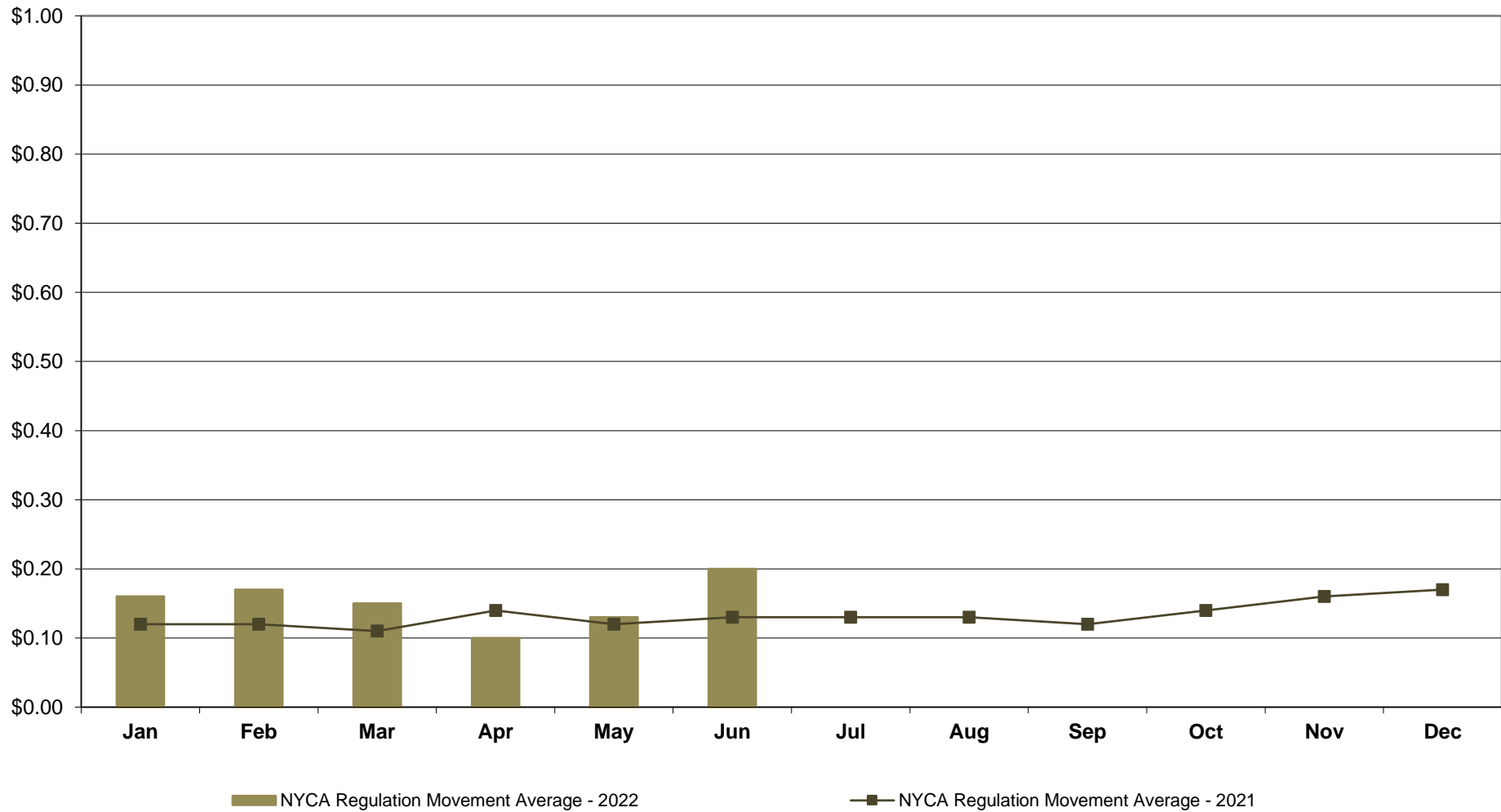
**NYISO Monthly Average Ancillary Service Prices
Real Time Market - 30 Min Op Res 2021 - 2022**



**NYISO Monthly Average Ancillary Service Prices
Real Time Market - Regulation 2021 - 2022**



**NYISO Monthly Average Ancillary Service Prices
Real Time Market - Regulation Movement 2021 - 2022**



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

| <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> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>Day Ahead Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 14.40 | 11.34 | 6.76 | 6.79 | 6.32 | 5.88 | | | | | | |
| 10 Min Spin NYC (J) | 15.32 | 12.52 | 7.29 | 6.80 | 7.01 | 6.12 | | | | | | |
| 10 Min Spin SENY (GHI) | 14.40 | 11.34 | 6.76 | 6.79 | 6.32 | 5.88 | | | | | | |
| 10 Min Spin East (F) | 14.37 | 11.30 | 6.74 | 6.70 | 6.28 | 5.87 | | | | | | |
| 10 Min Spin West (ABCDE) | 12.74 | 8.93 | 5.48 | 5.01 | 4.34 | 4.99 | | | | | | |
| 10 Min Non Synch Long Island (K) | 9.70 | 9.48 | 5.68 | 4.87 | 4.68 | 4.83 | | | | | | |
| 10 Min Non Synch NYC (J) | 10.61 | 10.66 | 6.20 | 4.89 | 5.38 | 5.07 | | | | | | |
| 10 Min Non Synch SENY (GHI) | 9.70 | 9.48 | 5.68 | 4.87 | 4.68 | 4.83 | | | | | | |
| 10 Min Non Synch East (F) | 9.66 | 9.44 | 5.66 | 4.78 | 4.64 | 4.82 | | | | | | |
| 10 Min Non Synch West (ABCDE) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | 4.60 | | | | | | |
| 30 Min Long Island (K) | 8.92 | 7.40 | 4.67 | 4.59 | 4.19 | 4.61 | | | | | | |
| 30 Min NYC (J) | 8.95 | 7.42 | 4.67 | 4.59 | 4.21 | 4.61 | | | | | | |
| 30 Min SENY (GHI) | 8.92 | 7.40 | 4.67 | 4.59 | 4.19 | 4.61 | | | | | | |
| 30 Min East (F) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | 4.60 | | | | | | |
| 30 Min West (ABCDE) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | 4.60 | | | | | | |
| Regulation | 35.17 | 19.48 | 12.56 | 8.94 | 10.61 | 11.49 | | | | | | |
| | | | | | | | | | | | | |
| <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> |
| <u>Day Ahead Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 4.61 | 7.85 | 4.46 | 3.80 | 3.78 | 3.91 | 3.80 | 4.06 | 4.05 | 6.61 | 6.27 | 5.33 |
| 10 Min Spin NYC (J) | 4.68 | 8.01 | 4.46 | 3.81 | 3.80 | 4.38 | 4.14 | 4.51 | 4.19 | 6.69 | 6.60 | 5.56 |
| 10 Min Spin SENY (GHI) | 4.61 | 7.85 | 4.46 | 3.80 | 3.78 | 3.91 | 3.80 | 4.06 | 4.05 | 6.61 | 6.27 | 5.33 |
| 10 Min Spin East (F) | 4.61 | 7.85 | 4.46 | 3.80 | 3.78 | 3.89 | 3.64 | 3.87 | 3.92 | 6.49 | 6.26 | 5.32 |
| 10 Min Spin West (ABCDE) | 4.01 | 6.68 | 4.07 | 3.56 | 3.43 | 3.64 | 3.40 | 3.54 | 3.62 | 4.84 | 4.75 | 3.97 |
| 10 Min Non Synch Long Island (K) | 3.32 | 5.58 | 3.60 | 3.25 | 3.27 | 3.47 | 3.46 | 3.68 | 3.47 | 4.56 | 4.37 | 3.82 |
| 10 Min Non Synch NYC (J) | 3.40 | 5.74 | 3.60 | 3.26 | 3.30 | 3.93 | 3.80 | 4.14 | 3.60 | 4.64 | 4.69 | 4.05 |
| 10 Min Non Synch SENY (GHI) | 3.32 | 5.58 | 3.60 | 3.25 | 3.27 | 3.47 | 3.46 | 3.68 | 3.47 | 4.56 | 4.37 | 3.82 |
| 10 Min Non Synch East (F) | 3.32 | 5.58 | 3.60 | 3.25 | 3.27 | 3.45 | 3.31 | 3.50 | 3.34 | 4.44 | 4.35 | 3.81 |
| 10 Min Non Synch West (ABCDE) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.31 | 3.19 | 3.31 | 3.27 | 4.14 | 4.01 | 3.70 |
| 30 Min Long Island (K) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.33 | 3.34 | 3.49 | 3.41 | 4.25 | 4.02 | 3.71 |
| 30 Min NYC (J) | 3.23 | 5.25 | 3.57 | 3.19 | 3.18 | 3.53 | 3.40 | 3.62 | 3.41 | 4.27 | 4.02 | 3.71 |
| 30 Min SENY (GHI) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.33 | 3.34 | 3.49 | 3.41 | 4.25 | 4.02 | 3.71 |
| 30 Min East (F) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.31 | 3.19 | 3.31 | 3.27 | 4.14 | 4.01 | 3.70 |
| 30 Min West (ABCDE) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.31 | 3.19 | 3.31 | 3.27 | 4.14 | 4.01 | 3.70 |
| Regulation | 6.40 | 10.93 | 7.21 | 6.72 | 5.50 | 5.55 | 5.13 | 4.98 | 6.29 | 8.27 | 10.13 | 8.47 |

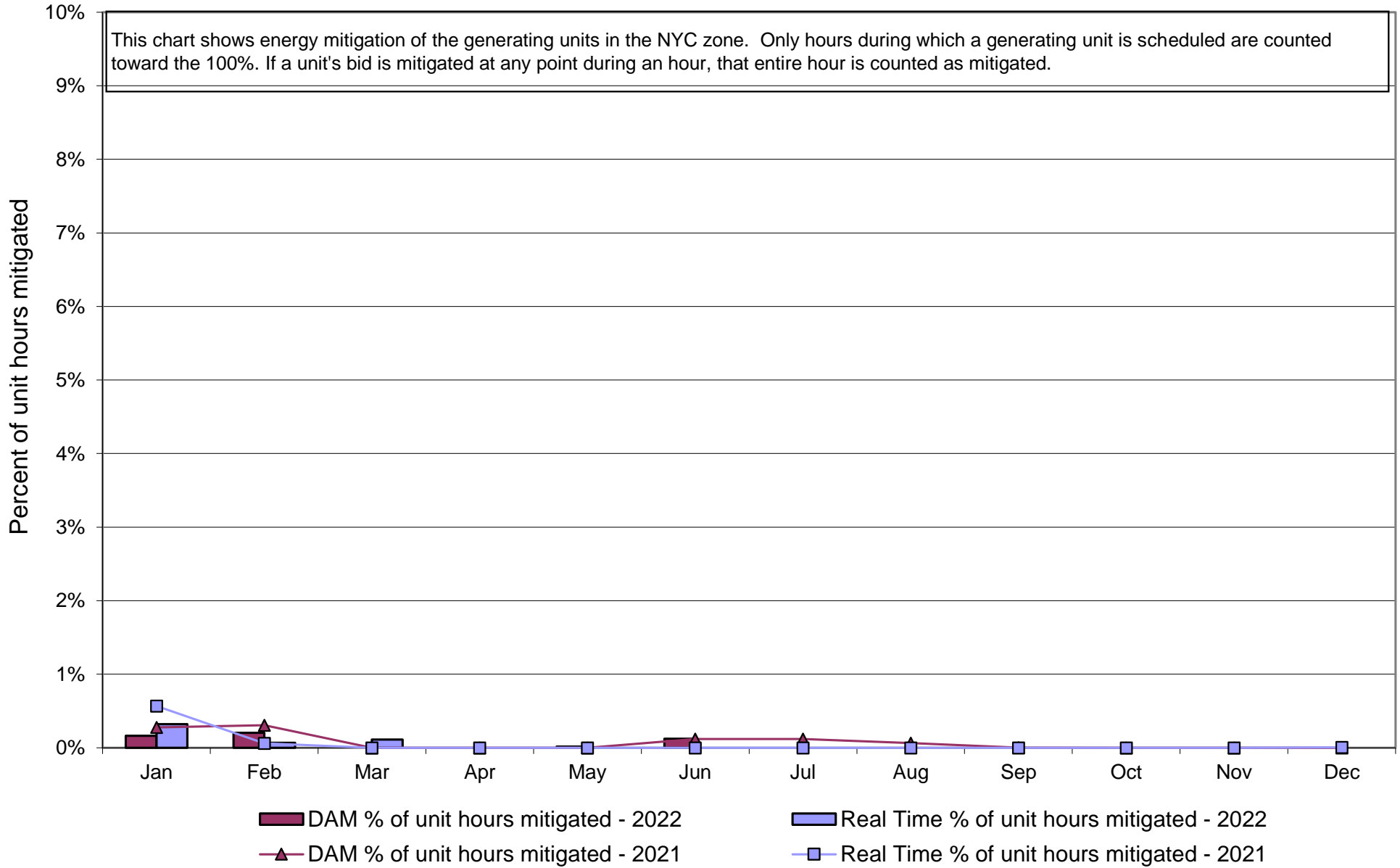
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RTC

| <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> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| RTC Market | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 11.75 | 7.55 | 4.73 | 2.39 | 3.15 | 5.06 | | | | | | |
| 10 Min Spin NYC (J) | 11.75 | 7.81 | 4.92 | 2.53 | 3.72 | 5.51 | | | | | | |
| 10 Min Spin SENY (GHI) | 11.75 | 7.55 | 4.73 | 2.39 | 3.15 | 5.06 | | | | | | |
| 10 Min Spin East (F) | 11.68 | 7.55 | 4.71 | 2.36 | 2.98 | 4.03 | | | | | | |
| 10 Min Spin West (ABCDE) | 7.59 | 5.49 | 1.27 | 1.03 | 1.75 | 2.47 | | | | | | |
| 10 Min Non Synch Long Island (K) | 3.67 | 0.69 | 2.97 | 0.37 | 1.47 | 2.88 | | | | | | |
| 10 Min Non Synch NYC (J) | 3.67 | 0.95 | 3.16 | 0.51 | 2.04 | 3.34 | | | | | | |
| 10 Min Non Synch SENY (GHI) | 3.67 | 0.69 | 2.97 | 0.37 | 1.47 | 2.88 | | | | | | |
| 10 Min Non Synch East (F) | 3.60 | 0.69 | 2.96 | 0.33 | 1.31 | 1.86 | | | | | | |
| 10 Min Non Synch West (ABCDE) | 1.79 | 0.24 | 0.29 | 0.30 | 1.00 | 1.58 | | | | | | |
| 30 Min Long Island (K) | 1.55 | 0.24 | 0.31 | 0.34 | 1.17 | 2.61 | | | | | | |
| 30 Min NYC (J) | 1.55 | 0.24 | 0.31 | 0.34 | 1.34 | 2.74 | | | | | | |
| 30 Min SENY (GHI) | 1.55 | 0.24 | 0.31 | 0.34 | 1.17 | 2.61 | | | | | | |
| 30 Min East (F) | 1.48 | 0.24 | 0.29 | 0.30 | 1.00 | 1.58 | | | | | | |
| 30 Min West (ABCDE) | 1.48 | 0.24 | 0.29 | 0.30 | 1.00 | 1.58 | | | | | | |
| Regulation | 31.59 | 17.95 | 12.23 | 7.77 | 8.36 | 14.11 | | | | | | |
| NYCA Regulation Movement | 0.16 | 0.17 | 0.14 | 0.10 | 0.13 | 0.20 | | | | | | |
| 2021 | <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> |
| RTC Market | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 1.65 | 1.53 | 1.29 | 0.58 | 0.61 | 2.86 | 1.25 | 2.21 | 1.04 | 1.59 | 2.18 | 2.42 |
| 10 Min Spin NYC (J) | 1.65 | 1.53 | 1.29 | 0.58 | 0.91 | 4.26 | 1.34 | 2.59 | 1.37 | 1.63 | 2.48 | 2.48 |
| 10 Min Spin SENY (GHI) | 1.65 | 1.53 | 1.29 | 0.58 | 0.61 | 2.86 | 1.25 | 2.21 | 1.04 | 1.59 | 2.18 | 2.42 |
| 10 Min Spin East (F) | 1.65 | 1.53 | 1.29 | 0.58 | 0.61 | 2.73 | 1.14 | 2.01 | 0.64 | 1.57 | 2.18 | 2.42 |
| 10 Min Spin West (ABCDE) | 1.16 | 0.93 | 0.88 | 0.22 | 0.07 | 1.51 | 0.32 | 1.69 | 0.11 | 0.30 | 0.82 | 1.22 |
| 10 Min Non Synch Long Island (K) | 0.49 | 0.00 | 0.02 | 0.00 | 0.05 | 2.40 | 1.11 | 2.02 | 0.45 | 0.09 | 0.29 | 0.05 |
| 10 Min Non Synch NYC (J) | 0.49 | 0.00 | 0.02 | 0.00 | 0.35 | 3.80 | 1.20 | 2.40 | 0.79 | 0.13 | 0.59 | 0.11 |
| 10 Min Non Synch SENY (GHI) | 0.49 | 0.00 | 0.02 | 0.00 | 0.05 | 2.40 | 1.11 | 2.02 | 0.45 | 0.09 | 0.29 | 0.05 |
| 10 Min Non Synch East (F) | 0.49 | 0.00 | 0.02 | 0.00 | 0.05 | 2.27 | 1.01 | 1.83 | 0.06 | 0.07 | 0.29 | 0.05 |
| 10 Min Non Synch West (ABCDE) | 0.26 | 0.00 | 0.01 | 0.00 | 0.00 | 1.42 | 0.30 | 1.67 | 0.04 | 0.05 | 0.05 | 0.00 |
| 30 Min Long Island (K) | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 1.56 | 0.36 | 1.86 | 0.44 | 0.07 | 0.05 | 0.00 |
| 30 Min NYC (J) | 0.10 | 0.00 | 0.01 | 0.00 | 0.12 | 2.34 | 0.37 | 1.90 | 0.46 | 0.07 | 0.05 | 0.00 |
| 30 Min SENY (GHI) | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 1.56 | 0.36 | 1.86 | 0.44 | 0.07 | 0.05 | 0.00 |
| 30 Min East (F) | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 1.42 | 0.26 | 1.67 | 0.04 | 0.05 | 0.05 | 0.00 |
| 30 Min West (ABCDE) | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 1.42 | 0.26 | 1.67 | 0.04 | 0.05 | 0.05 | 0.00 |
| Regulation | 6.46 | 8.02 | 9.88 | 6.54 | 5.08 | 6.69 | 5.18 | 8.22 | 5.86 | 6.83 | 9.37 | 10.10 |
| NYCA Regulation Movement | 0.12 | 0.12 | 0.11 | 0.14 | 0.12 | 0.13 | 0.13 | 0.13 | 0.12 | 0.14 | 0.16 | 0.17 |

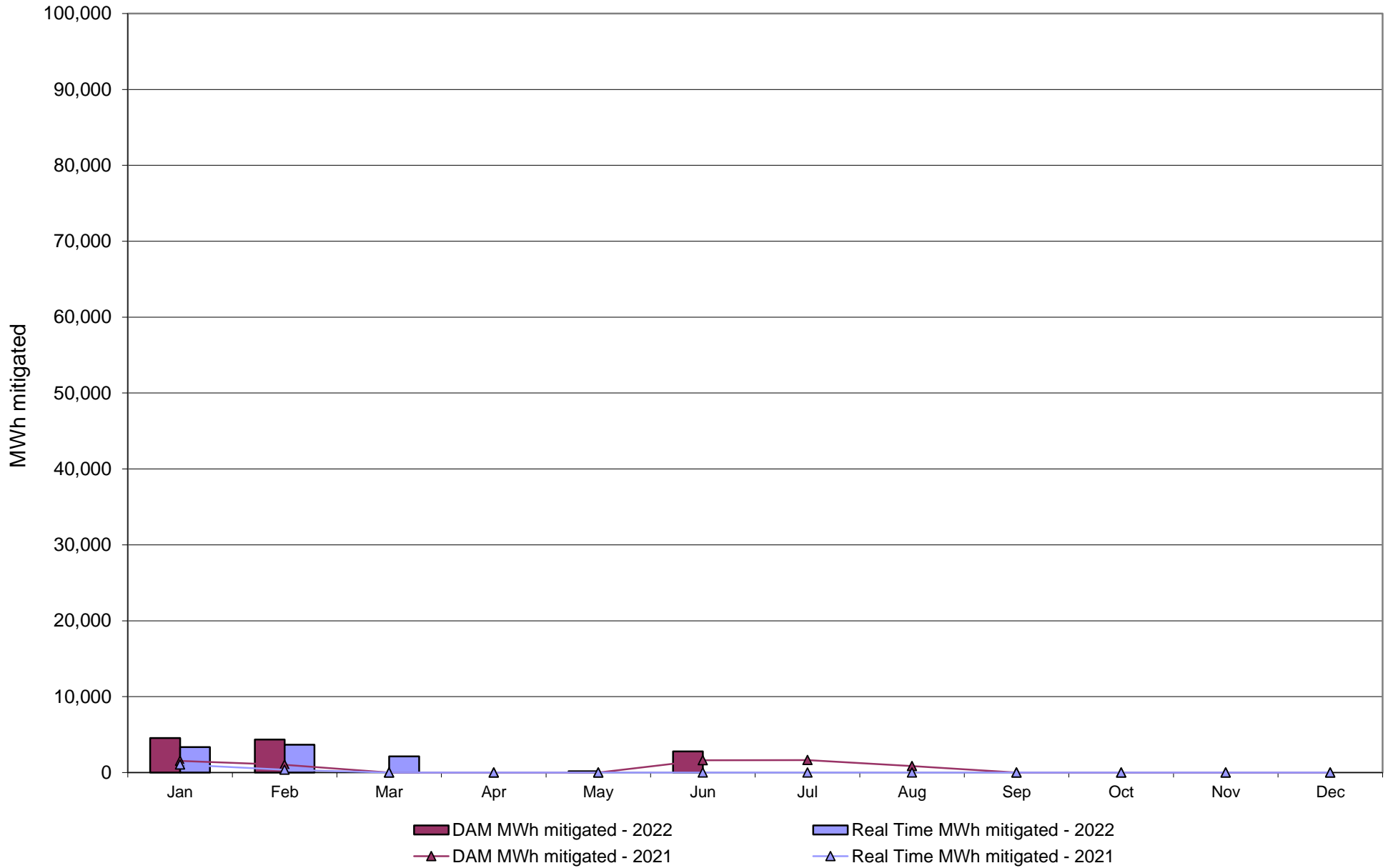
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

| <u>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| Real Time Market | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 17.99 | 9.02 | 6.90 | 3.15 | 2.68 | 4.93 | | | | | | |
| 10 Min Spin NYC (J) | 18.04 | 9.27 | 7.04 | 3.27 | 3.17 | 5.46 | | | | | | |
| 10 Min Spin SENY (GHI) | 17.99 | 9.02 | 6.90 | 3.15 | 2.68 | 4.93 | | | | | | |
| 10 Min Spin East (F) | 17.97 | 9.02 | 6.90 | 3.15 | 2.62 | 4.39 | | | | | | |
| 10 Min Spin West (ABCDE) | 13.47 | 7.56 | 2.14 | 1.83 | 1.76 | 3.13 | | | | | | |
| 10 Min Non Synch Long Island (K) | 5.34 | 0.59 | 4.05 | 0.40 | 0.43 | 2.42 | | | | | | |
| 10 Min Non Synch NYC (J) | 5.40 | 0.84 | 4.19 | 0.51 | 0.92 | 2.95 | | | | | | |
| 10 Min Non Synch SENY (GHI) | 5.34 | 0.59 | 4.05 | 0.40 | 0.43 | 2.42 | | | | | | |
| 10 Min Non Synch East (F) | 5.33 | 0.59 | 4.05 | 0.40 | 0.37 | 1.88 | | | | | | |
| 10 Min Non Synch West (ABCDE) | 2.46 | 0.20 | 0.19 | 0.29 | 0.34 | 1.51 | | | | | | |
| 30 Min Long Island (K) | 1.42 | 0.20 | 0.16 | 0.29 | 0.40 | 2.05 | | | | | | |
| 30 Min NYC (J) | 1.42 | 0.20 | 0.16 | 0.29 | 0.56 | 2.20 | | | | | | |
| 30 Min SENY (GHI) | 1.42 | 0.20 | 0.16 | 0.29 | 0.40 | 2.05 | | | | | | |
| 30 Min East (F) | 1.41 | 0.20 | 0.16 | 0.29 | 0.34 | 1.51 | | | | | | |
| 30 Min West (ABCDE) | 1.41 | 0.20 | 0.16 | 0.29 | 0.34 | 1.51 | | | | | | |
| Regulation | 33.92 | 18.10 | 11.81 | 8.22 | 8.23 | 11.84 | | | | | | |
| NYCA Regulation Movement | 0.16 | 0.17 | 0.15 | 0.10 | 0.13 | 0.20 | | | | | | |
| | | | | | | | | | | | | |
| <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> |
| Real Time Market | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 3.75 | 2.96 | 3.57 | 1.51 | 0.90 | 2.38 | 1.67 | 1.38 | 0.80 | 2.62 | 4.53 | 4.99 |
| 10 Min Spin NYC (J) | 3.75 | 2.96 | 3.57 | 1.51 | 1.16 | 3.77 | 1.78 | 1.71 | 1.13 | 2.70 | 4.90 | 5.07 |
| 10 Min Spin SENY (GHI) | 3.75 | 2.96 | 3.57 | 1.51 | 0.90 | 2.38 | 1.67 | 1.38 | 0.80 | 2.62 | 4.53 | 4.99 |
| 10 Min Spin East (F) | 3.75 | 2.96 | 3.57 | 1.51 | 0.90 | 2.35 | 1.60 | 1.28 | 0.52 | 2.59 | 4.53 | 4.99 |
| 10 Min Spin West (ABCDE) | 2.64 | 2.03 | 2.78 | 0.49 | 0.15 | 1.25 | 0.39 | 0.99 | 0.16 | 1.01 | 2.75 | 3.49 |
| 10 Min Non Synch Long Island (K) | 1.13 | 0.02 | 0.03 | 0.12 | 0.16 | 1.68 | 1.44 | 1.06 | 0.32 | 0.10 | 0.26 | 0.21 |
| 10 Min Non Synch NYC (J) | 1.13 | 0.02 | 0.03 | 0.12 | 0.42 | 3.07 | 1.56 | 1.39 | 0.64 | 0.18 | 0.63 | 0.29 |
| 10 Min Non Synch SENY (GHI) | 1.13 | 0.02 | 0.03 | 0.12 | 0.16 | 1.68 | 1.44 | 1.06 | 0.32 | 0.10 | 0.26 | 0.21 |
| 10 Min Non Synch East (F) | 1.13 | 0.02 | 0.03 | 0.12 | 0.16 | 1.65 | 1.38 | 0.97 | 0.04 | 0.07 | 0.26 | 0.21 |
| 10 Min Non Synch West (ABCDE) | 0.40 | 0.00 | 0.02 | 0.00 | 0.02 | 1.04 | 0.27 | 0.82 | 0.03 | 0.05 | 0.08 | 0.00 |
| 30 Min Long Island (K) | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 1.06 | 0.35 | 0.91 | 0.31 | 0.08 | 0.08 | 0.00 |
| 30 Min NYC (J) | 0.05 | 0.00 | 0.02 | 0.00 | 0.12 | 1.84 | 0.36 | 0.93 | 0.31 | 0.08 | 0.08 | 0.00 |
| 30 Min SENY (GHI) | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 1.06 | 0.35 | 0.91 | 0.31 | 0.08 | 0.08 | 0.00 |
| 30 Min East (F) | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 1.04 | 0.28 | 0.82 | 0.03 | 0.05 | 0.08 | 0.00 |
| 30 Min West (ABCDE) | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 1.04 | 0.27 | 0.82 | 0.03 | 0.05 | 0.08 | 0.00 |
| Regulation | 7.39 | 9.17 | 10.23 | 6.78 | 5.31 | 6.24 | 5.25 | 7.54 | 6.03 | 7.43 | 10.62 | 10.05 |
| NYCA Regulation Movement | 0.12 | 0.12 | 0.11 | 0.14 | 0.12 | 0.13 | 0.13 | 0.13 | 0.12 | 0.14 | 0.16 | 0.17 |

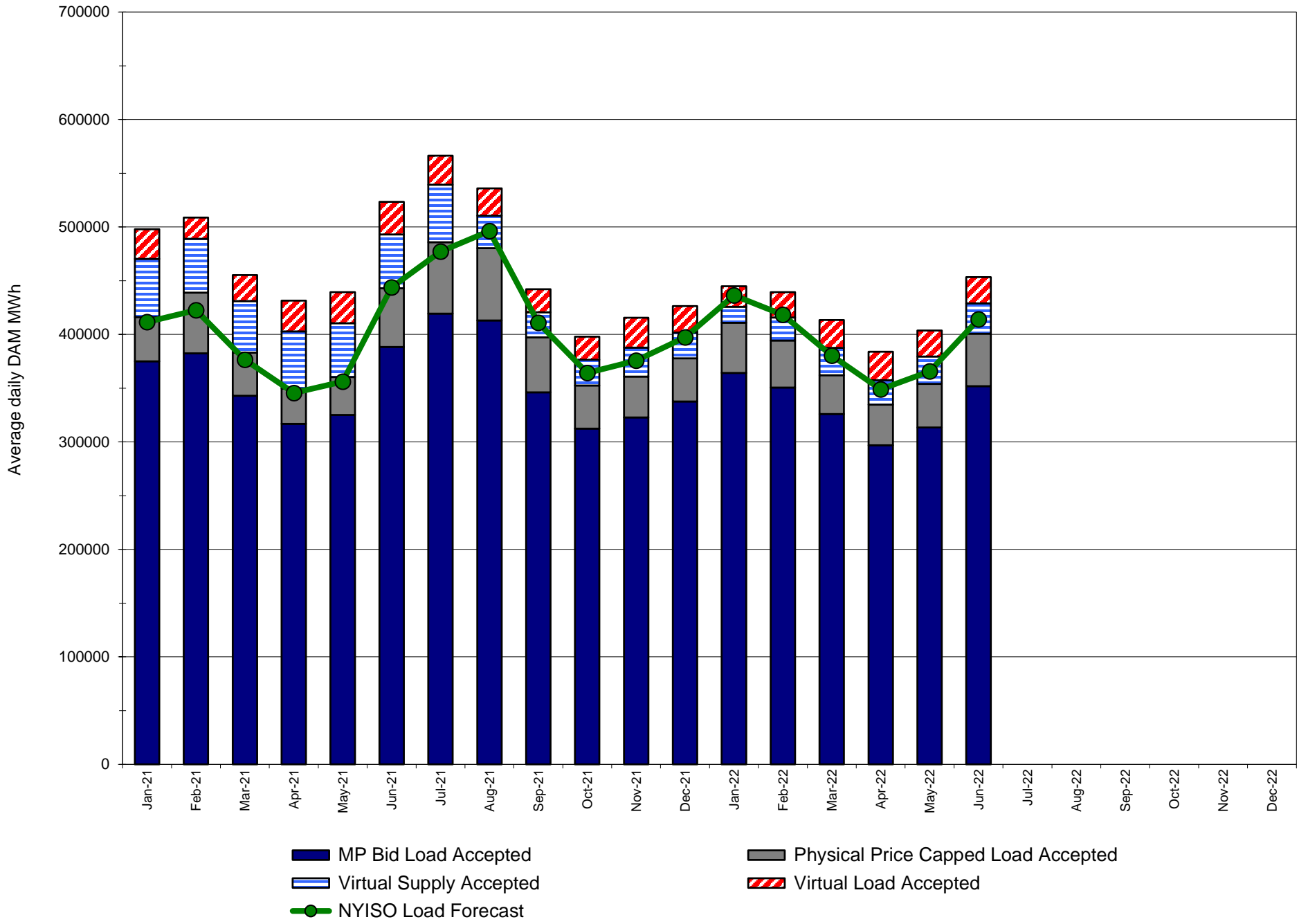
NYISO In City Energy Mitigation - AMP (NYC Zone) 2021 - 2022 Percentage of committed unit-hours mitigated



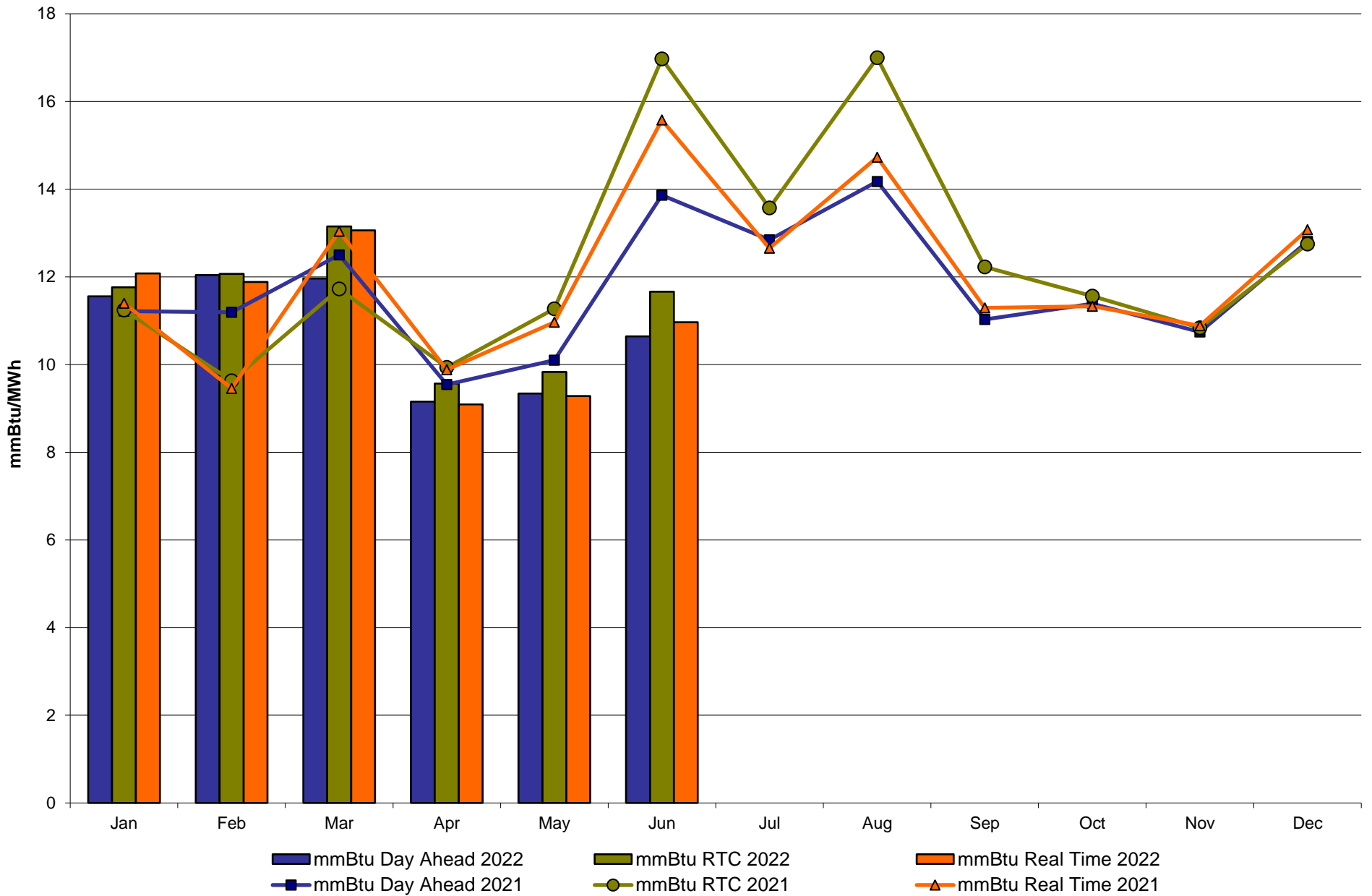
**NYISO In City Energy Mitigation (NYC Zone) 2021 - 2022
Monthly megawatt hours mitigated**



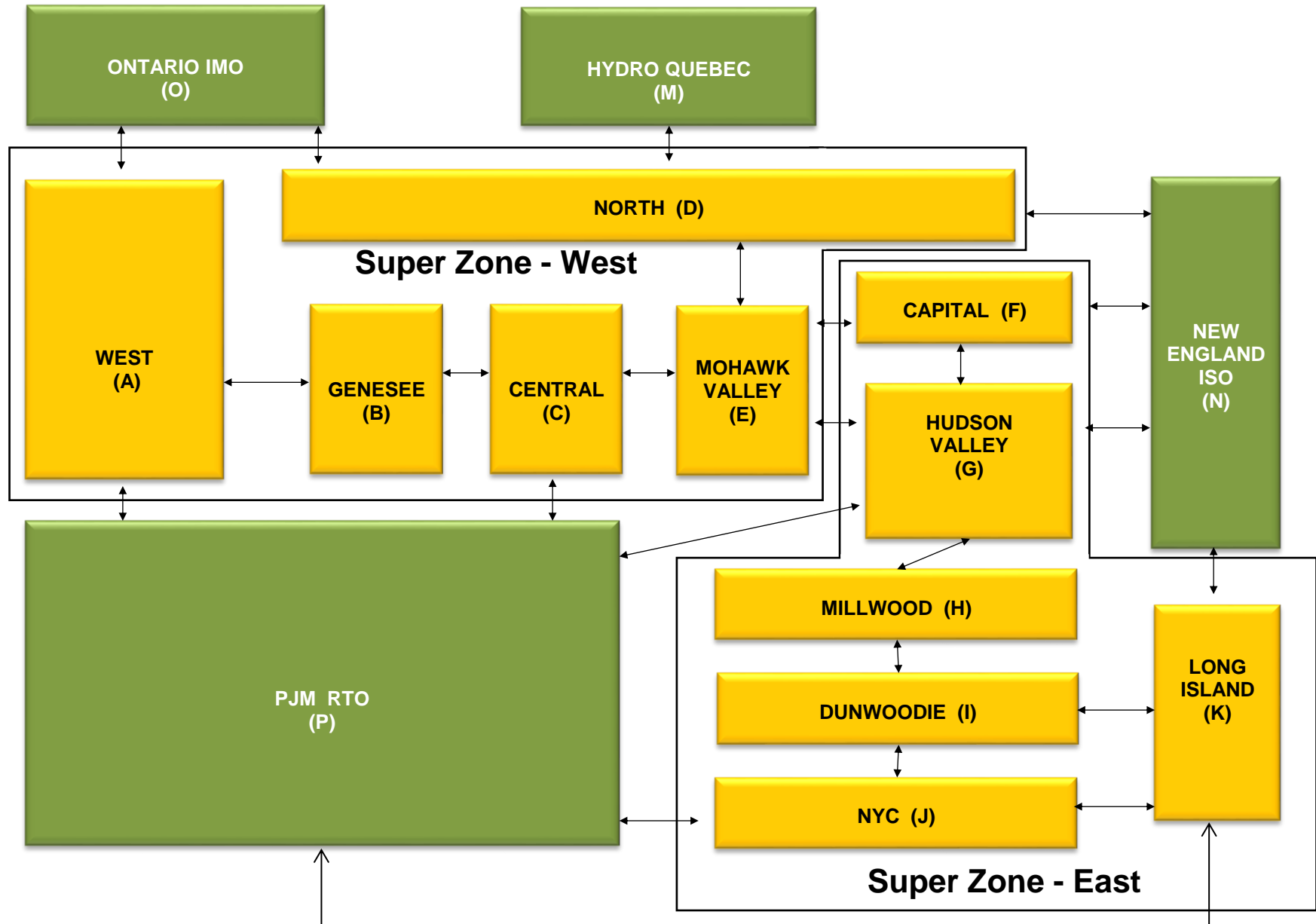
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2021-2022



NYISO LBMP ZONES



Billing Codes for Chart C

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

Our Mission & Vision



Mission

Ensure power system reliability and competitive markets for New York in a clean energy future



Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation