

# **NYISO CEO/COO Report**

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**Richard Dewey**

President & Chief Executive Officer

**Rick Gonzales**

Senior Vice President & Chief Operating Officer

**Management Committee Meeting**

April 29, 2020 Rensselaer, NY

# NYISO CEO/COO Report

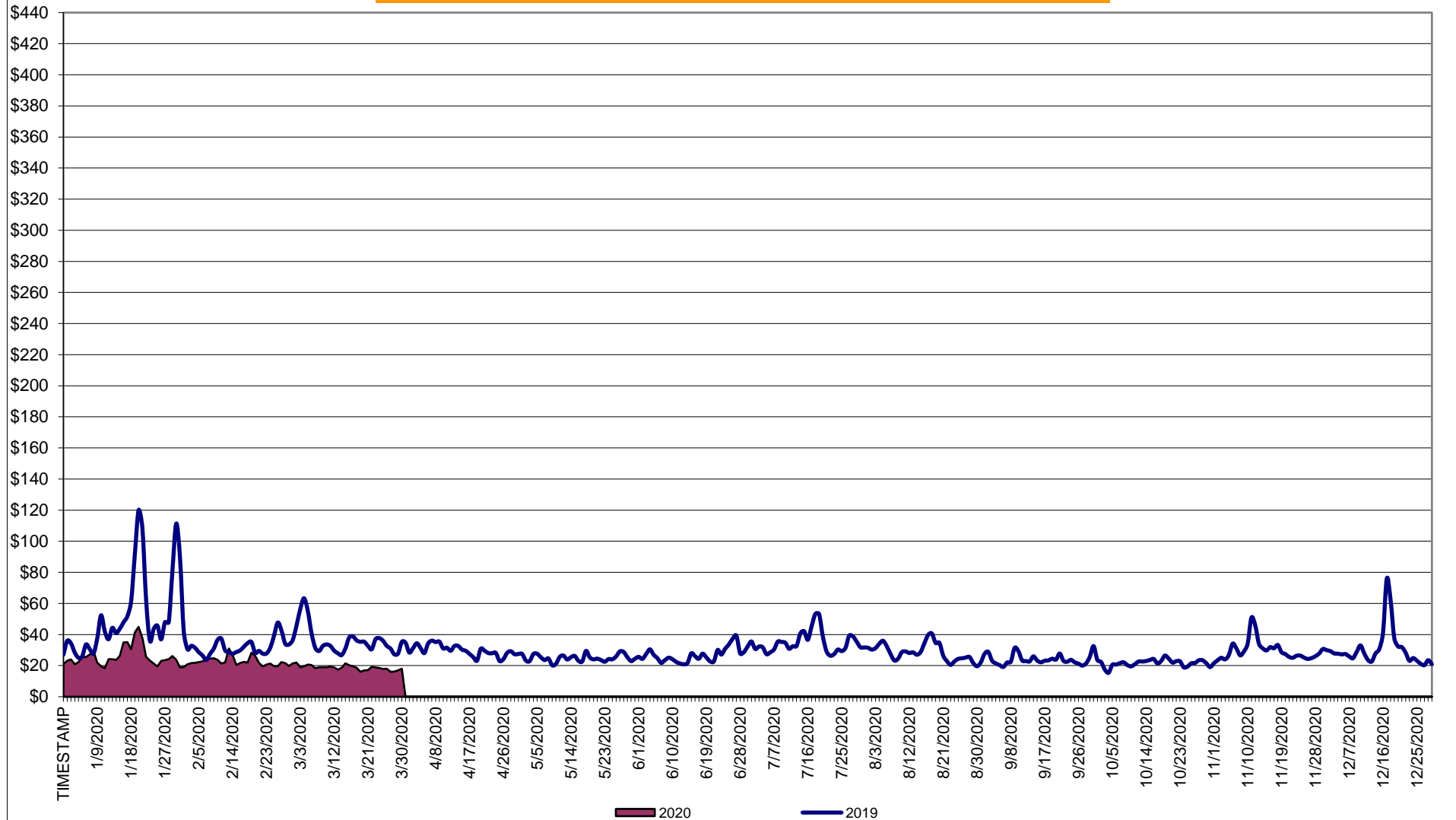
- **CEO Report**
- **COO Report**
  - Market Performance Highlights – For Information Only
  - Operations Performance Metrics Monthly Report

# Market Performance Highlights

## March 2020

- LBMP for March is \$17.11/MWh; lower than \$21.11/MWh in February 2020 and \$34.91/MWh in March 2019.
  - Day Ahead and Real Time Load Weighted LBMPs are lower compared to February.
- March 2020 average year-to-date monthly cost of \$23.48/MWh is a 45% decrease from \$42.54/MWh in March 2019.
- Average daily sendout is 375 GWh/day in March; lower than 417 GWh/day in February 2020 and 411 GWh/day in March 2019.
- Natural gas and distillate prices are lower compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$1.49 /MMBtu, down from \$1.87/MMBtu in February.
  - Natural gas prices are down 49.1% year-over-year.
  - Jet Kerosene Gulf Coast was \$7.13/MMBtu, down from \$11.33/MMBtu in February.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$8.53/MMBtu, down from \$11.73/MMBtu in February.
  - Distillate prices are down 32.2% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.19)/MWh; higher than (\$0.23)/MWh in February.
    - Local Reliability Share is \$0.07/MWh, higher than \$0.06/MWh in February.
    - Statewide Share is (\$0.26)/MWh, higher than (\$0.29)/MWh in February.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than February.

**Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\***  
**2019 Annual Average \$32.59/MWh**  
**March 2019 YTD Average \$42.54/MWh**  
**March 2020 YTD Average \$23.29/MWh**



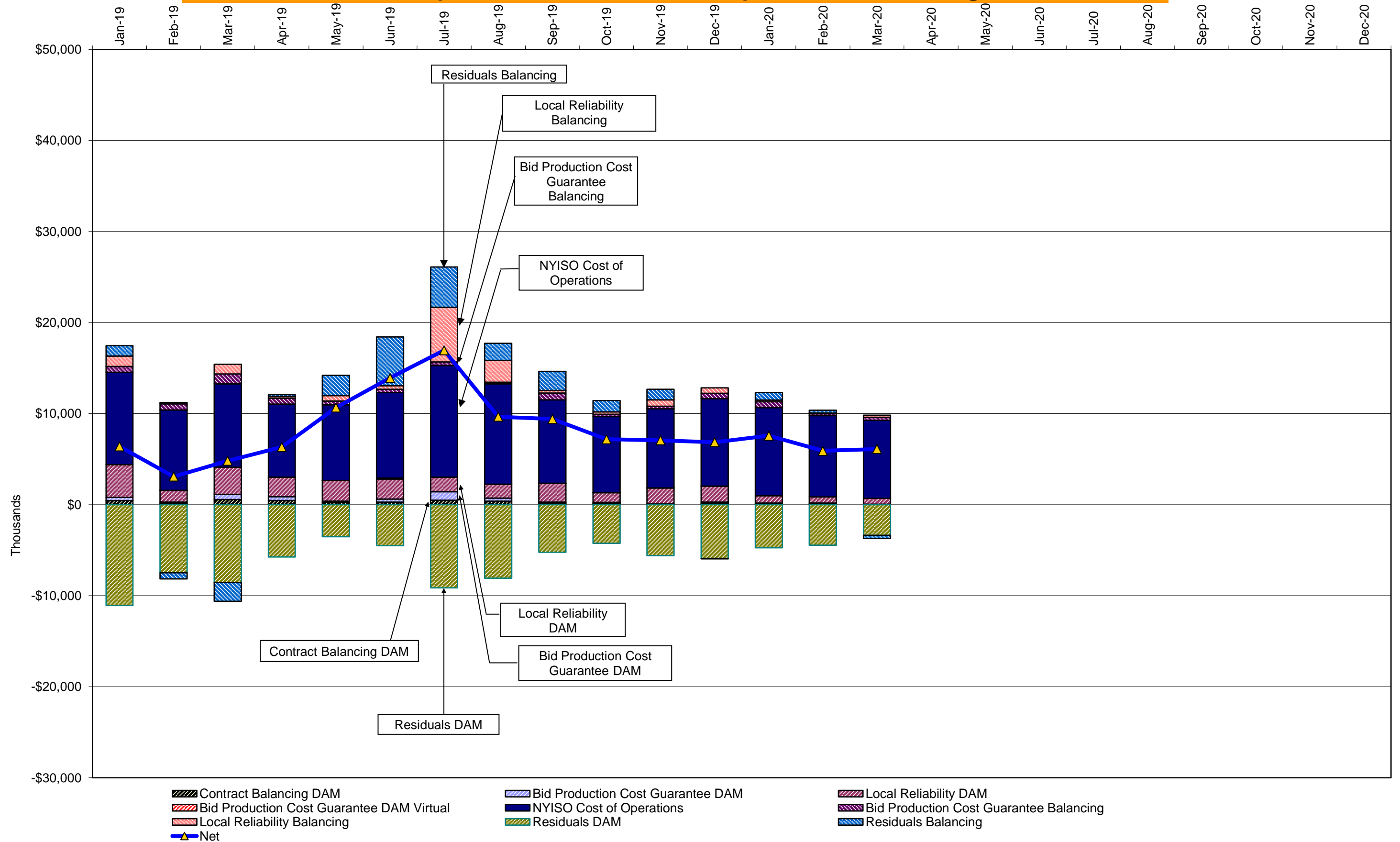
\* Excludes ICAP payments.

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

| <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        |              |            |             |             |               |                  |                |                 |                 |
| NTAC                            | 0.91           | 0.70            | 0.86         |              |            |             |             |               |                  |                |                 |                 |
| Reserve                         | 0.46           | 0.43            | 0.47         |              |            |             |             |               |                  |                |                 |                 |
| Regulation                      | 0.09           | 0.08            | 0.09         |              |            |             |             |               |                  |                |                 |                 |
| NYISO Cost of Operations        | 0.68           | 0.69            | 0.68         |              |            |             |             |               |                  |                |                 |                 |
| FERC Fee Recovery               | 0.08           | 0.09            | 0.09         |              |            |             |             |               |                  |                |                 |                 |
| Uplift                          | (0.15)         | (0.23)          | (0.19)       |              |            |             |             |               |                  |                |                 |                 |
| Uplift: Local Reliability Share | 0.07           | 0.06            | 0.07         |              |            |             |             |               |                  |                |                 |                 |
| Uplift: Statewide Share         | (0.22)         | (0.29)          | (0.26)       |              |            |             |             |               |                  |                |                 |                 |
| Voltage Support and Black Start | 0.44           | 0.44            | 0.44         |              |            |             |             |               |                  |                |                 |                 |
| <b>Avg Monthly Cost</b>         | 27.29          | 23.32           | 19.55        |              |            |             |             |               |                  |                |                 |                 |
| <br>Avg YTD Cost                | 27.29          | 25.40           | 23.48        |              |            |             |             |               |                  |                |                 |                 |
| <br>TSA \$ per NYC MWh          | 0.00           | 0.00            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| <br><b>2019</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                            | 50.93          | 33.51           | 34.91        | 28.01        | 23.10      | 24.43       | 33.18       | 27.83         | 22.22            | 20.84          | 27.39           | 29.52           |
| NTAC                            | 0.51           | 0.69            | 0.98         | 1.16         | 0.72       | 1.08        | 1.01        | 0.98          | 0.48             | 0.57           | 0.88            | 0.77            |
| Reserve                         | 0.54           | 0.51            | 0.55         | 0.63         | 0.63       | 0.50        | 0.44        | 0.49          | 0.50             | 0.62           | 0.50            | 0.44            |
| Regulation                      | 0.13           | 0.11            | 0.10         | 0.33         | 0.13       | 0.09        | 0.07        | 0.09          | 0.09             | 0.13           | 0.11            | 0.10            |
| NYISO Cost of Operations        | 0.68           | 0.68            | 0.69         | 0.69         | 0.68       | 0.69        | 0.70        | 0.70          | 0.69             | 0.67           | 0.67            | 0.67            |
| FERC Fee Recovery               | 0.08           | 0.09            | 0.09         | 0.10         | 0.10       | 0.08        | 0.06        | 0.07          | 0.09             | 0.09           | 0.09            | 0.08            |
| Uplift                          | (0.25)         | (0.44)          | (0.33)       | (0.15)       | 0.13       | 0.07        | (0.06)      | (0.20)        | (0.13)           | (0.09)         | (0.13)          | (0.19)          |
| Uplift: Local Reliability Share | 0.32           | 0.11            | 0.31         | 0.20         | 0.23       | 0.19        | 0.44        | 0.25          | 0.17             | 0.11           | 0.19            | 0.17            |
| Uplift: Statewide Share         | (0.57)         | (0.55)          | (0.64)       | (0.35)       | (0.11)     | (0.12)      | (0.50)      | (0.45)        | (0.30)           | (0.20)         | (0.31)          | (0.35)          |
| Voltage Support and Black Start | 0.37           | 0.37            | 0.38         | 0.38         | 0.38       | 0.38        | 0.38        | 0.38          | 0.38             | 0.37           | 0.37            | 0.36            |
| <b>Avg Monthly Cost</b>         | 52.99          | 35.51           | 37.38        | 31.16        | 25.88      | 27.32       | 35.78       | 30.33         | 24.32            | 23.21          | 29.89           | 31.76           |
| <br>Avg YTD Cost                | 52.99          | 44.93           | 42.54        | 40.12        | 37.57      | 35.76       | 35.75       | 34.96         | 33.88            | 32.94          | 32.69           | 32.59           |
| <br>TSA \$ per NYC MWh          | 0.00           | 0.00            | 0.01         | 0.01         | 0.19       | 0.77        | 1.00        | 0.33          | 0.43             | 0.00           | 0.00            | 0.00            |

\* Excludes ICAP payments.  
Market Mitigation and Analysis  
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# NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through March 31, 2020



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>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   |              |            |             |             |               |                  |                |                 |                 |
| DAM LSE Internal LBMP Energy Sales                             | 56%            | 56%             | 59%          |              |            |             |             |               |                  |                |                 |                 |
| DAM External TC LBMP Energy Sales                              | 6%             | 5%              | 5%           |              |            |             |             |               |                  |                |                 |                 |
| DAM Bilateral - Internal Bilaterals                            | 30%            | 30%             | 27%          |              |            |             |             |               |                  |                |                 |                 |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals              | 5%             | 5%              | 6%           |              |            |             |             |               |                  |                |                 |                 |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals              | 2%             | 2%              | 2%           |              |            |             |             |               |                  |                |                 |                 |
| DAM Bilateral - Wheel Through Bilaterals                       | 1%             | 1%              | 1%           |              |            |             |             |               |                  |                |                 |                 |
| <b><u>Balancing Energy Market MWh</u></b>                      | -26,753        | -142,168        | 144,076      |              |            |             |             |               |                  |                |                 |                 |
| Balancing Energy LSE Internal LBMP Energy Sales                | -1080%         | -221%           | -85%         |              |            |             |             |               |                  |                |                 |                 |
| Balancing Energy External TC LBMP Energy Sales                 | 1156%          | 181%            | 240%         |              |            |             |             |               |                  |                |                 |                 |
| Balancing Energy Bilateral - Internal Bilaterals               | 62%            | 5%              | 12%          |              |            |             |             |               |                  |                |                 |                 |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0%             | 0%              | 0%           |              |            |             |             |               |                  |                |                 |                 |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 127%           | 16%             | 18%          |              |            |             |             |               |                  |                |                 |                 |
| Balancing Energy Bilateral - Wheel Through Bilaterals          | -365%          | -81%            | -85%         |              |            |             |             |               |                  |                |                 |                 |
| <b><u>Transactions Summary</u></b>                             |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| LBMP   | 62%            | 62%             | 65%          |              |            |             |             |               |                  |                |                 |                 |
| Internal Bilaterals  | 31%            | 31%             | 27%          |              |            |             |             |               |                  |                |                 |                 |
| Import Bilaterals  | 5%             | 5%              | 6%           |              |            |             |             |               |                  |                |                 |                 |
| Export Bilaterals  | 2%             | 2%              | 2%           |              |            |             |             |               |                  |                |                 |                 |
| Wheels Through   | 0%             | 1%              | 0%           |              |            |             |             |               |                  |                |                 |                 |
| <b><u>Market Share of Total Load</u></b>                       |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Day Ahead Market   | 100.2%         | 101.1%          | 98.9%        |              |            |             |             |               |                  |                |                 |                 |
| Balancing Energy +   | -0.2%          | -1.1%           | 1.1%         |              |            |             |             |               |                  |                |                 |                 |
| Total MWH  | 14,167,856     | 13,030,501      | 12,640,075   |              |            |             |             |               |                  |                |                 |                 |
| Average Daily Energy Sendout/Month GWh                         | 423            | 417             | 375          |              |            |             |             |               |                  |                |                 |                 |

| <u>2019</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>                             | 15,299,458     | 13,391,383      | 13,527,834   | 11,811,029   | 12,521,583 | 13,723,372  | 17,416,589  | 16,379,968    | 13,588,715       | 12,567,821     | 13,036,152      | 14,345,711      |
| DAM LSE Internal LBMP Energy Sales                             | 57%            | 57%             | 59%          | 59%          | 57%        | 58%         | 64%         | 63%           | 58%              | 57%            | 54%             | 56%             |
| DAM External TC LBMP Energy Sales                              | 6%             | 5%              | 3%           | 1%           | 3%         | 3%          | 3%          | 3%            | 3%               | 4%             | 6%              | 6%              |
| DAM Bilateral - Internal Bilaterals                            | 29%            | 30%             | 30%          | 31%          | 32%        | 29%         | 26%         | 26%           | 30%              | 32%            | 32%             | 30%             |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals              | 5%             | 5%              | 5%           | 5%           | 6%         | 5%          | 4%          | 4%            | 5%               | 5%             | 5%              | 5%              |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals              | 1%             | 1%              | 2%           | 2%           | 2%         | 2%          | 1%          | 1%            | 2%               | 2%             | 2%              | 2%              |
| DAM Bilateral - Wheel Through Bilaterals                       | 2%             | 2%              | 2%           | 2%           | 1%         | 2%          | 2%          | 2%            | 2%               | 1%             | 1%              | 1%              |
| <b><u>Balancing Energy Market MWh</u></b>                      | -322,442       | -323,188        | -261,217     | -218,482     | -392,699   | -102,044    | 103,628     | -514,102      | -247,267         | -112,057       | -17,421         | 46,828          |
| Balancing Energy LSE Internal LBMP Energy Sales                | -120%          | -126%           | -138%        | -178%        | -150%      | -264%       | -2%         | -119%         | -163%            | -346%          | -1332%          | -480%           |
| Balancing Energy External TC LBMP Energy Sales                 | 65%            | 67%             | 82%          | 113%         | 68%        | 233%        | 199%        | 41%           | 93%              | 266%           | 1435%           | 699%            |
| Balancing Energy Bilateral - Internal Bilaterals               | -4%            | -1%             | -3%          | 2%           | 1%         | 0%          | 5%          | 0%            | -4%              | 6%             | 103%            | 39%             |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0%             | 0%              | 0%           | 0%           | 0%         | 0%          | 15%         | 0%            | 0%               | 0%             | 0%              | 0%              |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 3%             | 7%              | 6%           | 7%           | 2%         | 8%          | 8%          | 1%            | 6%               | 25%            | 170%            | 70%             |
| Balancing Energy Bilateral - Wheel Through Bilaterals          | -45%           | -47%            | -47%         | -44%         | -21%       | -77%        | -125%       | -23%          | -31%             | -52%           | -476%           | -229%           |
| <b><u>Transactions Summary</u></b>                             |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| LBMP   | 63%            | 62%             | 61%          | 60%          | 59%        | 62%         | 68%         | 65%           | 61%              | 61%            | 60%             | 63%             |
| Internal Bilaterals  | 29%            | 30%             | 30%          | 31%          | 33%        | 30%         | 25%         | 27%           | 30%              | 32%            | 32%             | 30%             |
| Import Bilaterals  | 5%             | 5%              | 6%           | 6%           | 6%         | 5%          | 4%          | 5%            | 5%               | 5%             | 5%              | 5%              |
| Export Bilaterals  | 1%             | 2%              | 2%           | 2%           | 2%         | 2%          | 1%          | 1%            | 2%               | 2%             | 2%              | 2%              |
| Wheels Through   | 1%             | 1%              | 1%           | 1%           | 0%         | 1%          | 1%          | 1%            | 2%               | 0%             | 0%              | 0%              |
| <b><u>Market Share of Total Load</u></b>                       |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Day Ahead Market   | 102.2%         | 102.5%          | 102.0%       | 101.9%       | 103.2%     | 100.7%      | 99.4%       | 103.2%        | 101.9%           | 100.9%         | 100.1%          | 99.7%           |
| Balancing Energy +   | -2.2%          | -2.5%           | -2.0%        | -1.9%        | -3.2%      | -0.7%       | 0.6%        | -3.2%         | -1.9%            | -0.9%          | -0.1%           | 0.3%            |
| Total MWH  | 14,977,016     | 13,068,195      | 13,266,617   | 11,592,547   | 12,128,884 | 13,621,328  | 17,520,217  | 15,865,866    | 13,341,448       | 12,455,764     | 13,018,731      | 14,392,539      |
| Average Daily Energy Sendout/Month GWh                         | 449            | 436             | 411          | 371          | 373        | 429         | 539         | 487           | 419              | 377            | 401             | 427             |

+ 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 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      |              |            |             |             |               |                  |                |                 |                 |
| Standard Deviation                     | \$7.43         | \$4.45          | \$3.21       |              |            |             |             |               |                  |                |                 |                 |
| Load Weighted Price **                 | \$22.77        | \$19.84         | \$16.36      |              |            |             |             |               |                  |                |                 |                 |
| <b><u>RTC LBMP</u></b>                 |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$22.86        | \$21.48         | \$16.48      |              |            |             |             |               |                  |                |                 |                 |
| Standard Deviation                     | \$9.33         | \$53.30         | \$4.84       |              |            |             |             |               |                  |                |                 |                 |
| Load Weighted Price **                 | \$23.50        | \$21.94         | \$16.74      |              |            |             |             |               |                  |                |                 |                 |
| <b><u>REAL TIME LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$22.53        | \$19.29         | \$16.24      |              |            |             |             |               |                  |                |                 |                 |
| Standard Deviation                     | \$11.90        | \$8.68          | \$7.48       |              |            |             |             |               |                  |                |                 |                 |
| Load Weighted Price **                 | \$23.20        | \$19.68         | \$16.58      |              |            |             |             |               |                  |                |                 |                 |
| Average Daily Energy Sendout/Month GWh | 423            | 417             | 375          |              |            |             |             |               |                  |                |                 |                 |

### NYISO Markets 2019 Energy Statistics

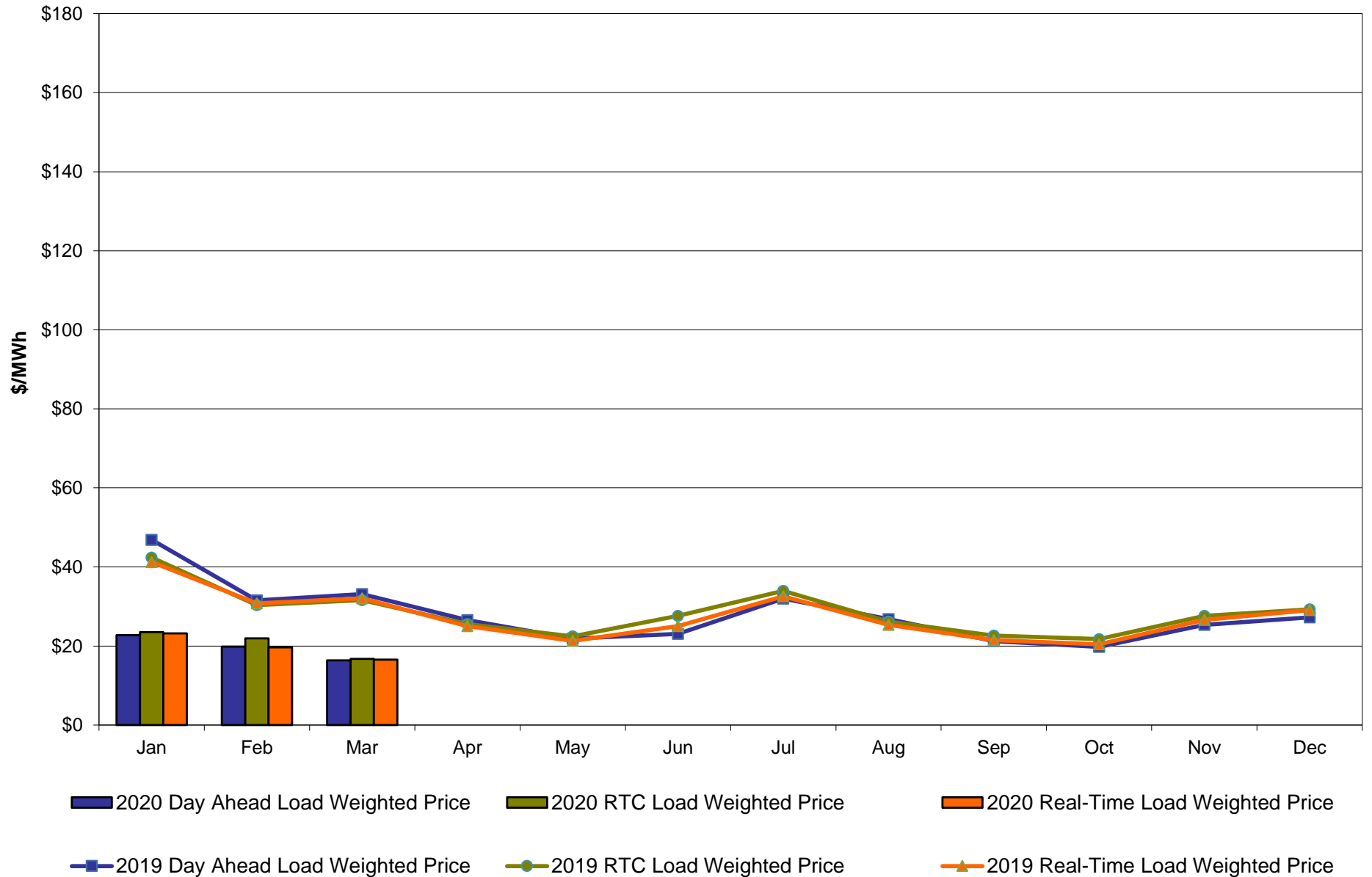
|  | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <b><u>DAY AHEAD LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$45.01        | \$30.66         | \$32.34      | \$25.97      | \$21.16    | \$21.79     | \$30.16     | \$25.35       | \$20.45          | \$19.18        | \$24.65         | \$26.29         |
| Standard Deviation                     | \$25.67        | \$12.86         | \$9.30       | \$6.32       | \$5.89     | \$7.28      | \$12.06     | \$8.73        | \$5.57           | \$5.09         | \$7.73          | \$11.81         |
| Load Weighted Price **                 | \$46.88        | \$31.53         | \$33.14      | \$26.57      | \$21.89    | \$23.04     | \$31.98     | \$26.83       | \$21.23          | \$19.77        | \$25.36         | \$27.22         |
| <b><u>RTC LBMP</u></b>                 |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$40.86        | \$29.74         | \$31.04      | \$25.07      | \$21.88    | \$25.67     | \$32.23     | \$24.92       | \$21.70          | \$20.92        | \$26.82         | \$28.17         |
| Standard Deviation                     | \$23.02        | \$10.79         | \$8.48       | \$7.53       | \$8.01     | \$23.45     | \$21.96     | \$14.96       | \$9.22           | \$13.95        | \$10.37         | \$16.26         |
| Load Weighted Price **                 | \$42.39        | \$30.32         | \$31.62      | \$25.54      | \$22.44    | \$27.64     | \$33.92     | \$26.14       | \$22.60          | \$21.76        | \$27.64         | \$29.24         |
| <b><u>REAL TIME LBMP</u></b>           |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Price *                                | \$39.54        | \$30.13         | \$31.46      | \$24.47      | \$20.56    | \$23.30     | \$30.77     | \$24.01       | \$20.49          | \$19.53        | \$25.82         | \$27.81         |
| Standard Deviation                     | \$26.03        | \$13.77         | \$12.54      | \$17.27      | \$10.35    | \$17.49     | \$20.63     | \$12.36       | \$9.62           | \$12.02        | \$11.60         | \$19.64         |
| Load Weighted Price **                 | \$41.24        | \$30.80         | \$32.06      | \$25.06      | \$21.28    | \$25.05     | \$32.53     | \$25.34       | \$21.50          | \$20.43        | \$26.64         | \$29.05         |
| Average Daily Energy Sendout/Month GWh | 449            | 436             | 411          | 371          | 373        | 429         | 539         | 487           | 419              | 377            | 401             | 427             |

\* Average zonal load weighted prices.

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



# **NYISO Monthly Average Internal LBMPs 2019- 2020**

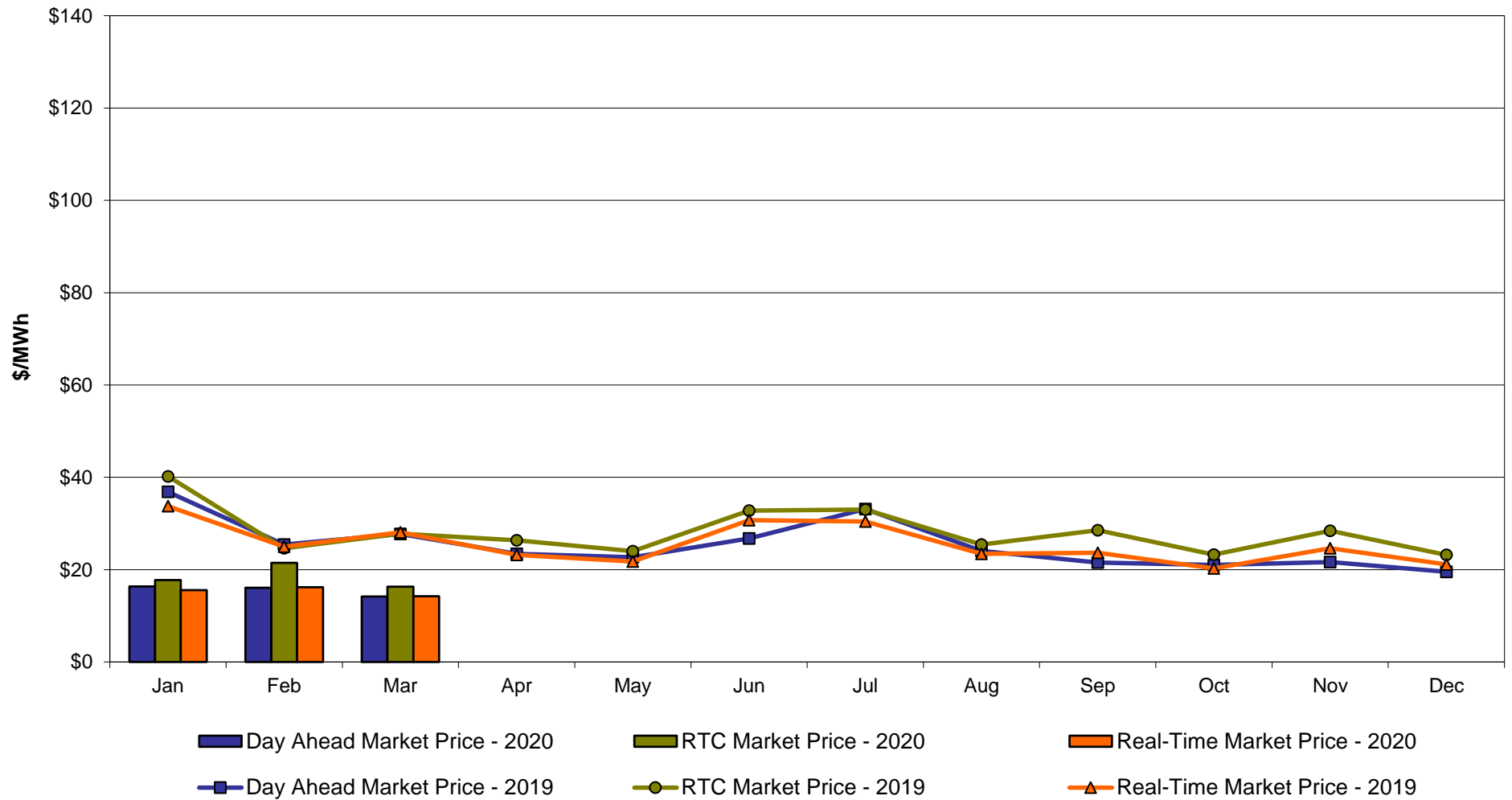


### March 2020 Zonal LBMP Statistics for NYISO (\$/MWh)

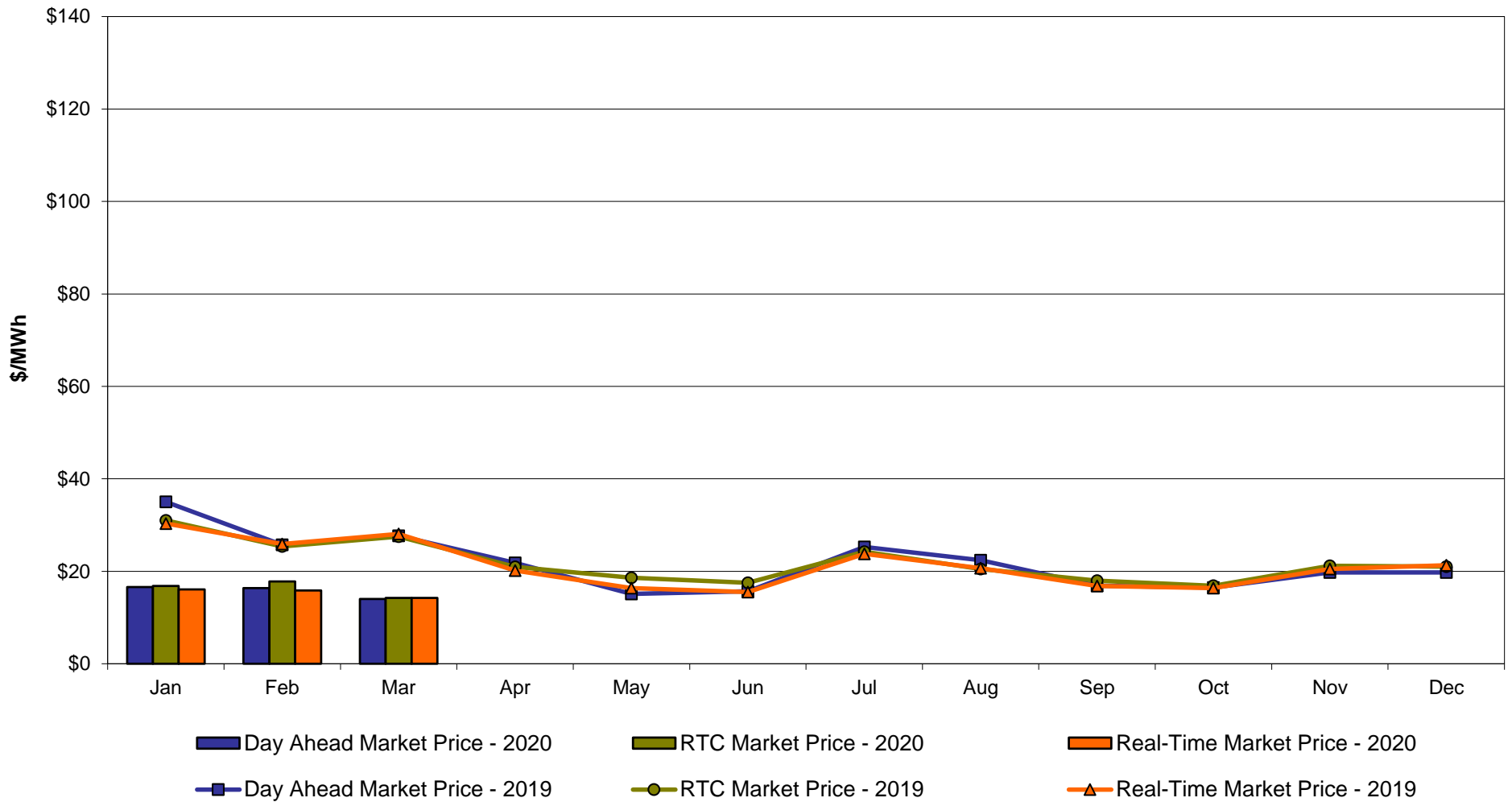
|                              | <u>WEST<br/>Zone A</u>  | <u>GENESEE<br/>Zone B</u>           | <u>NORTH<br/>Zone D</u>                     | <u>CENTRAL<br/>Zone C</u> | <u>MOHAWK<br/>VALLEY<br/>Zone E</u> | <u>CAPITAL<br/>Zone F</u>                                  | <u>HUDSON<br/>VALLEY<br/>Zone G</u>                     | <u>MILLWOOD<br/>Zone H</u>               | <u>DUNWOODIE<br/>Zone I</u>                 | <u>NEW YORK<br/>CITY<br/>Zone J</u>     | <u>LONG<br/>ISLAND<br/>Zone K</u>         |
|------------------------------|-------------------------|-------------------------------------|---|---------------------------|-------------------------------------|--|---|--|---|---|---|
| <b><u>DAY AHEAD LBMP</u></b> |                         |                                     |   |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 14.19                   | 13.47                               | 11.57                                       | 13.99                     | 13.91                               | 17.05  | 16.39   | 16.57                                    | 16.61                                       | 16.81                                   | 19.84                                     |
| Standard Deviation           | 4.62                    | 3.32                                | 4.35  | 3.35                      | 3.36                                | 3.71   | 3.15  | 3.22                                     | 3.22  | 3.24                                    | 4.86                                      |
| <b><u>RTC LBMP</u></b>       |                         |                                     |   |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 16.33                   | 13.61                               | 12.25                                       | 14.24                     | 14.08                               | 17.51  | 16.66   | 16.81                                    | 16.83                                       | 16.89                                   | 20.21                                     |
| Standard Deviation           | 10.70                   | 5.23                                | 6.50  | 5.26                      | 5.29                                | 5.06   | 4.18  | 4.24                                     | 4.23  | 4.30                                    | 14.37                                     |
| <b><u>REAL TIME LBMP</u></b> |                         |                                     |   |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 14.22                   | 13.66                               | 12.25                                       | 14.22                     | 14.10                               | 17.59  | 16.72   | 16.87                                    | 16.89                                       | 16.98                                   | 19.79                                     |
| Standard Deviation           | 10.80                   | 7.44                                | 8.39  | 7.59                      | 7.68                                | 8.14   | 7.31  | 7.39                                     | 7.38  | 7.43                                    | 14.36                                     |
|                              | <u>ONTARIO<br/>IESO</u> | <u>HYDRO<br/>QUEBEC<br/>(Wheel)</u> | <u>HYDRO<br/>QUEBEC<br/>(Import/Export)</u> | <u>PJM</u>                | <u>NEW<br/>ENGLAND</u>              | <u>CROSS<br/>SOUND<br/>CABLE<br/>Controllable<br/>Line</u> | <u>NORTHPORT-<br/>NORWALK<br/>Controllable<br/>Line</u> | <u>NEPTUNE<br/>Controllable<br/>Line</u> | <u>LINDEN VFT<br/>Controllable<br/>Line</u> | <u>HUDSON<br/>Controllable<br/>Line</u> | <u>Dennison<br/>Controllable<br/>Line</u> |
|                              | <u>Zone O</u>           | <u>Zone M</u>                       | <u>Zone M</u>                               | <u>Zone P</u>             | <u>Zone N</u>                       |  |   |  |   |   |   |
| <b><u>DAY AHEAD LBMP</u></b> |                         |                                     |   |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 13.00                   | 12.79                               | 12.79                                       | 15.19                     | 16.68                               | 19.67  | 19.42   | 18.70                                    | 16.76                                       | 16.73                                   | 11.33                                     |
| Standard Deviation           | 3.04                    | 3.39                                | 3.39  | 3.10                      | 3.34                                | 4.92   | 4.84  | 4.34                                     | 3.22  | 3.23                                    | 4.25                                      |
| <b><u>RTC LBMP</u></b>       |                         |                                     |   |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 12.55                   | 12.83                               | 12.83                                       | 15.82                     | 17.60                               | 21.58  | 19.48   | 18.41                                    | 15.76                                       | 16.87                                   | 11.18                                     |
| Standard Deviation           | 5.00                    | 6.01                                | 6.01  | 4.78                      | 5.62                                | 24.80  | 15.24   | 7.78                                     | 17.80                                       | 4.20                                    | 12.39                                     |
| <b><u>REAL TIME LBMP</u></b> |                         |                                     |   |                           |                                     |  |   |  |   |   |   |
| Unweighted Price *           | 12.91                   | 12.87                               | 12.84                                       | 15.32                     | 17.33                               | 20.71  | 19.29   | 18.38                                    | 16.02                                       | 16.94                                   | 10.65                                     |
| Standard Deviation           | 7.60                    | 7.82                                | 7.80  | 6.92                      | 7.81                                | 20.18  | 16.01   | 9.34                                     | 19.95                                       | 7.35                                    | 11.72                                     |

\* Straight LBMP averages

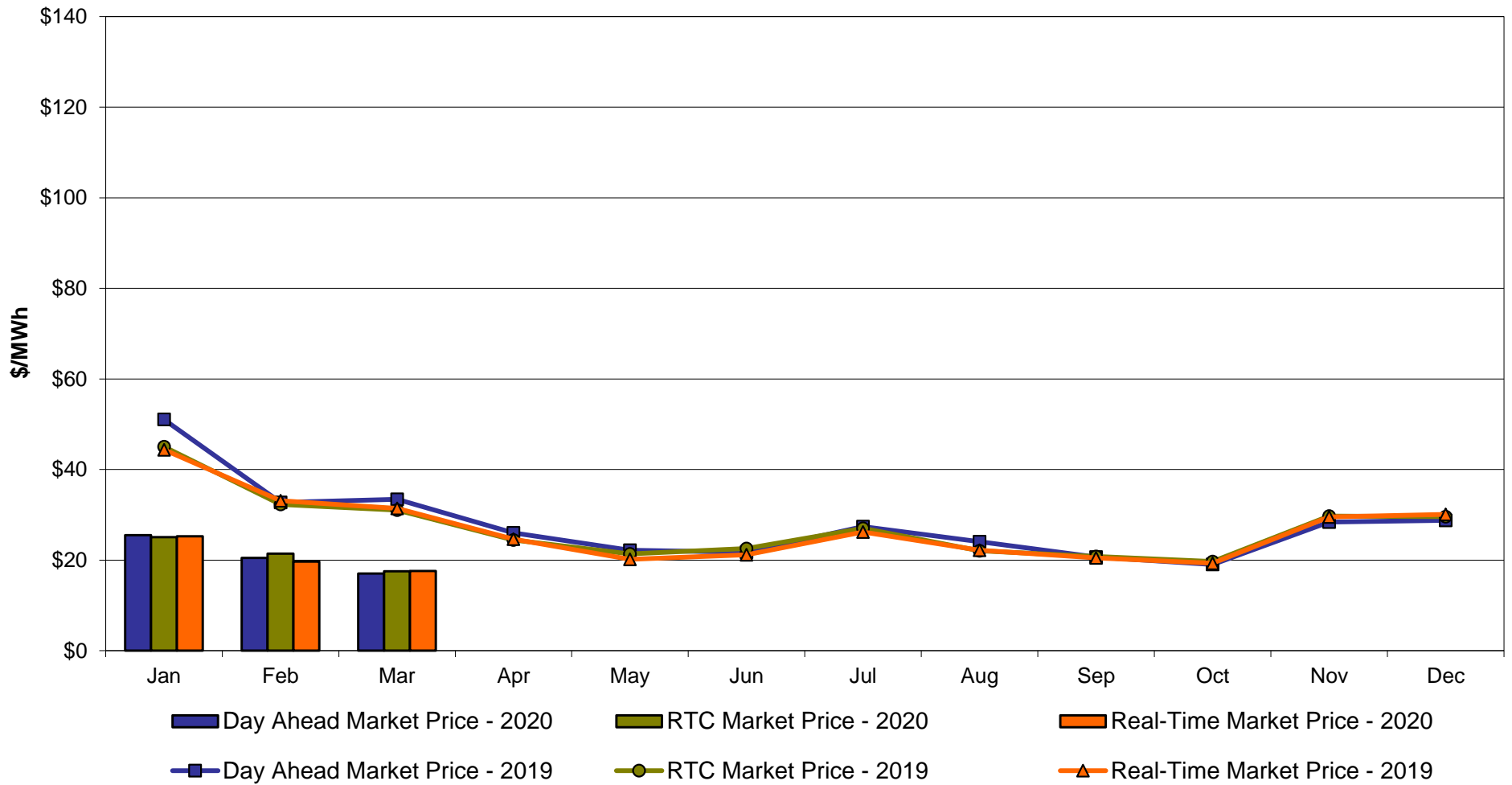
# **West Zone A** **Monthly Average LBMP Prices 2019 - 2020**



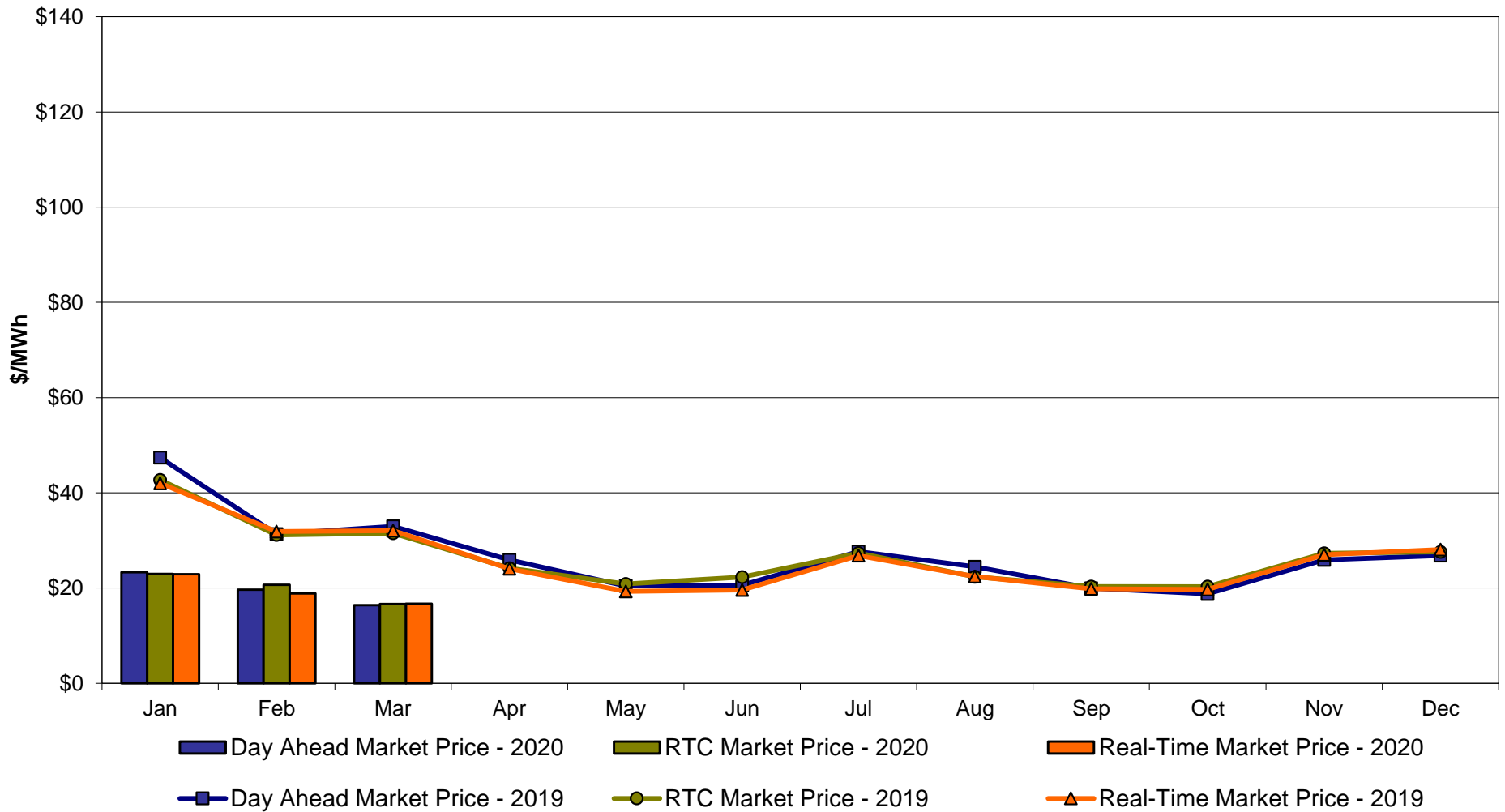
**Central Zone C**  
**Monthly Average LBMP Prices 2019 - 2020**



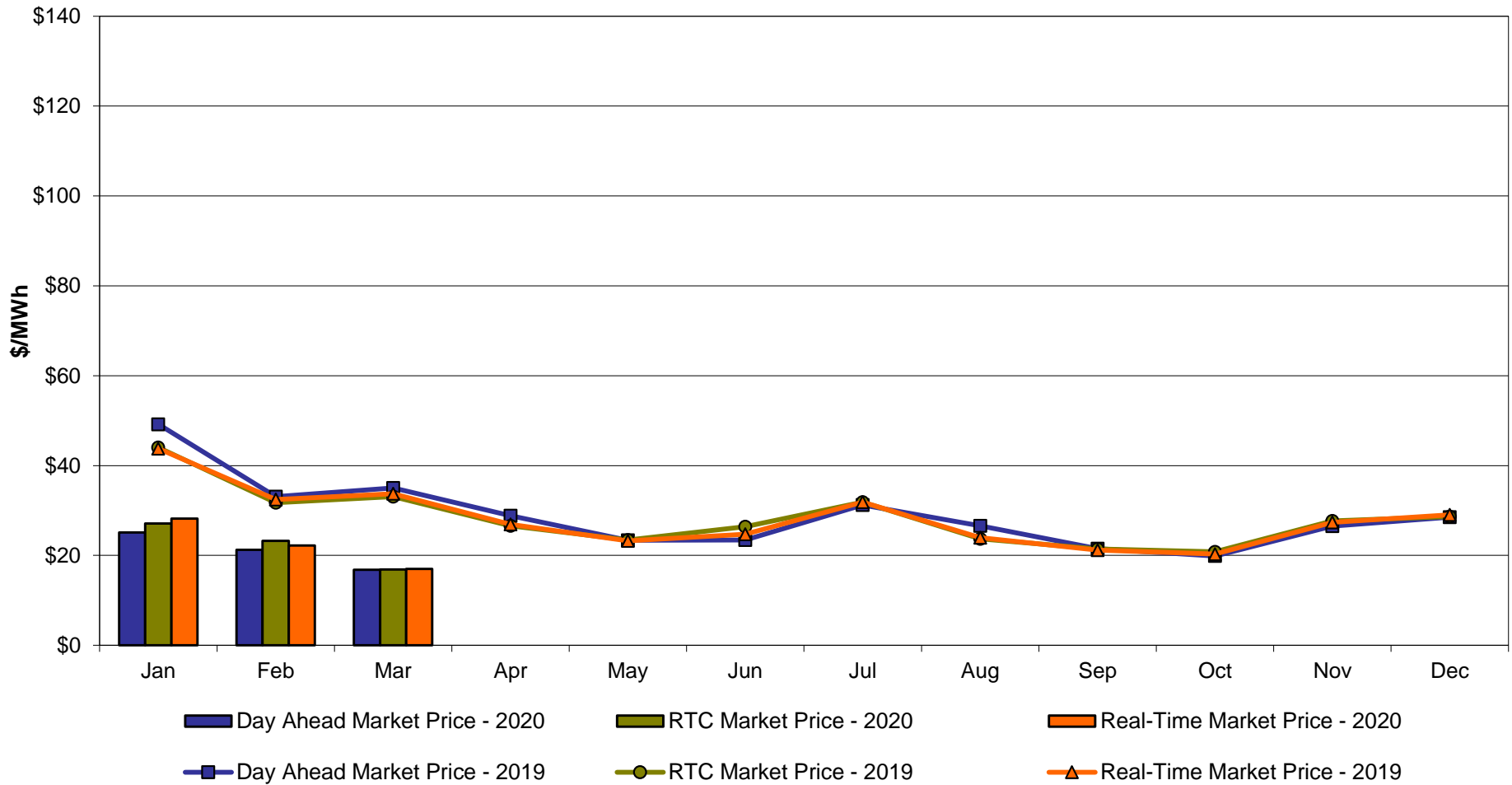
# **Capital Zone F** **Monthly Average LBMP Prices 2019 - 2020**



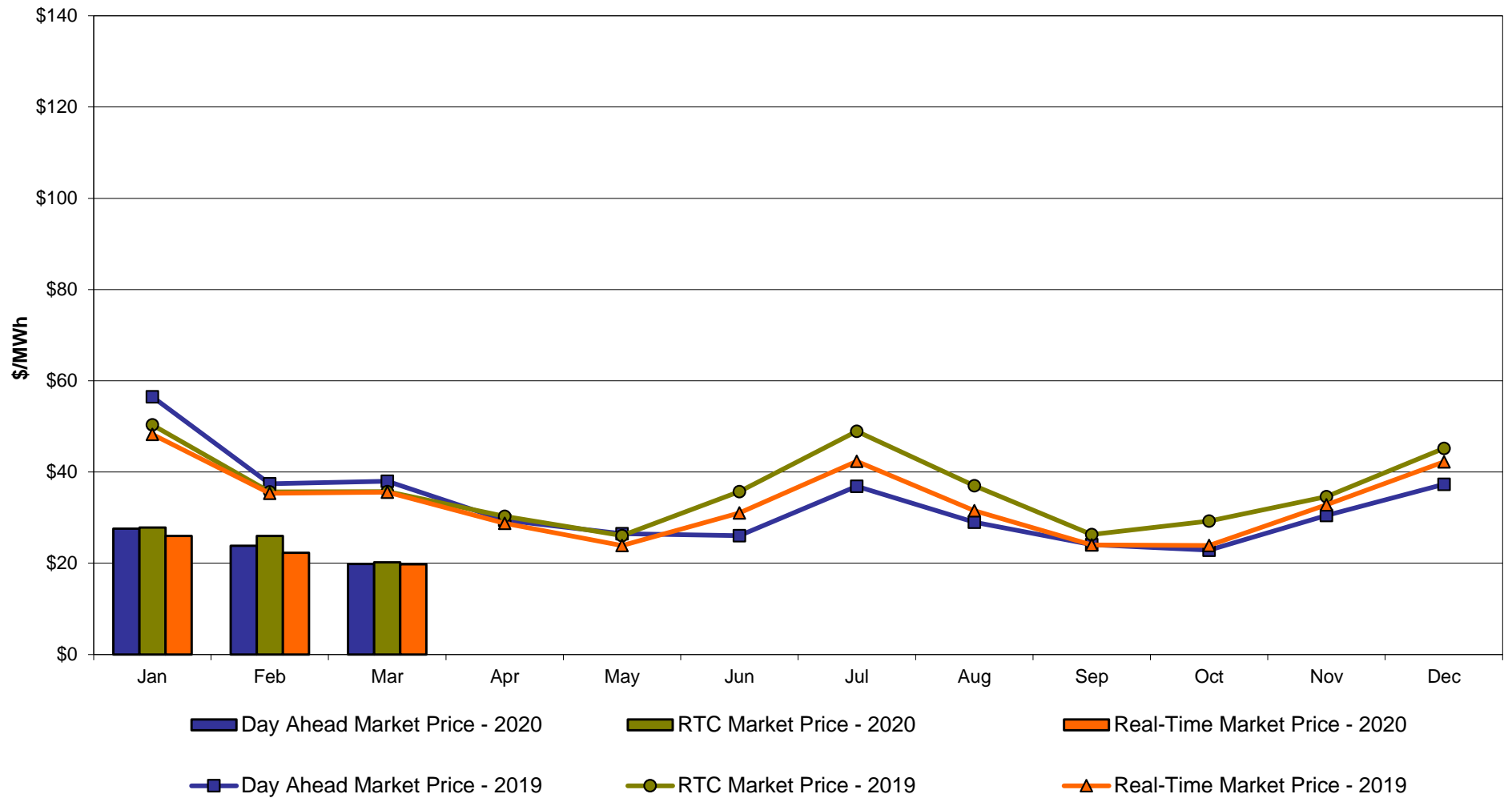
# **Hudson Valley Zone G** **Monthly Average LBMP Prices 2019 - 2020**



# **NYC Zone J** **Monthly Average LBMP Prices 2019 - 2020**

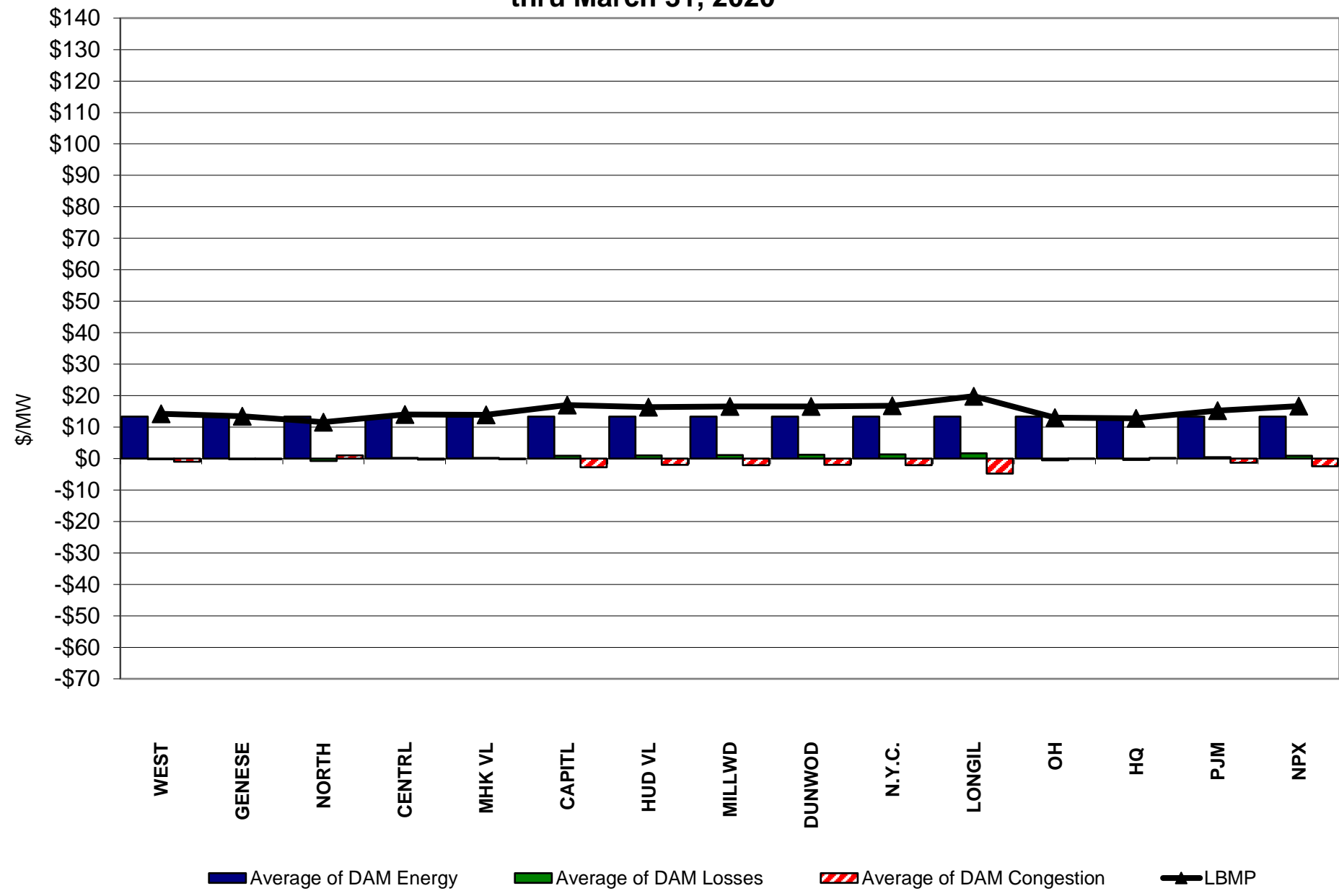


# Long Island Zone K Monthly Average LBMP Prices 2019 - 2020

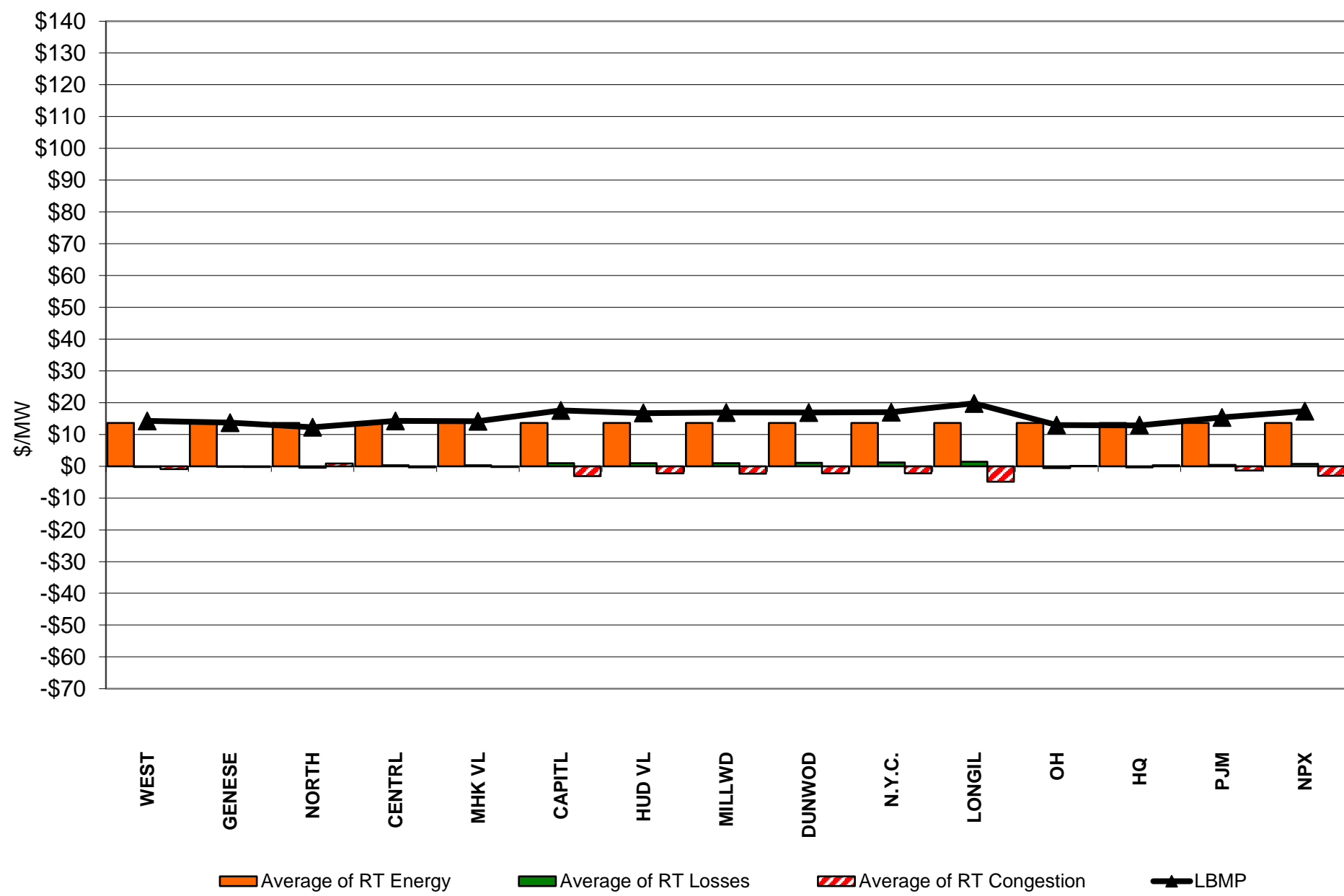




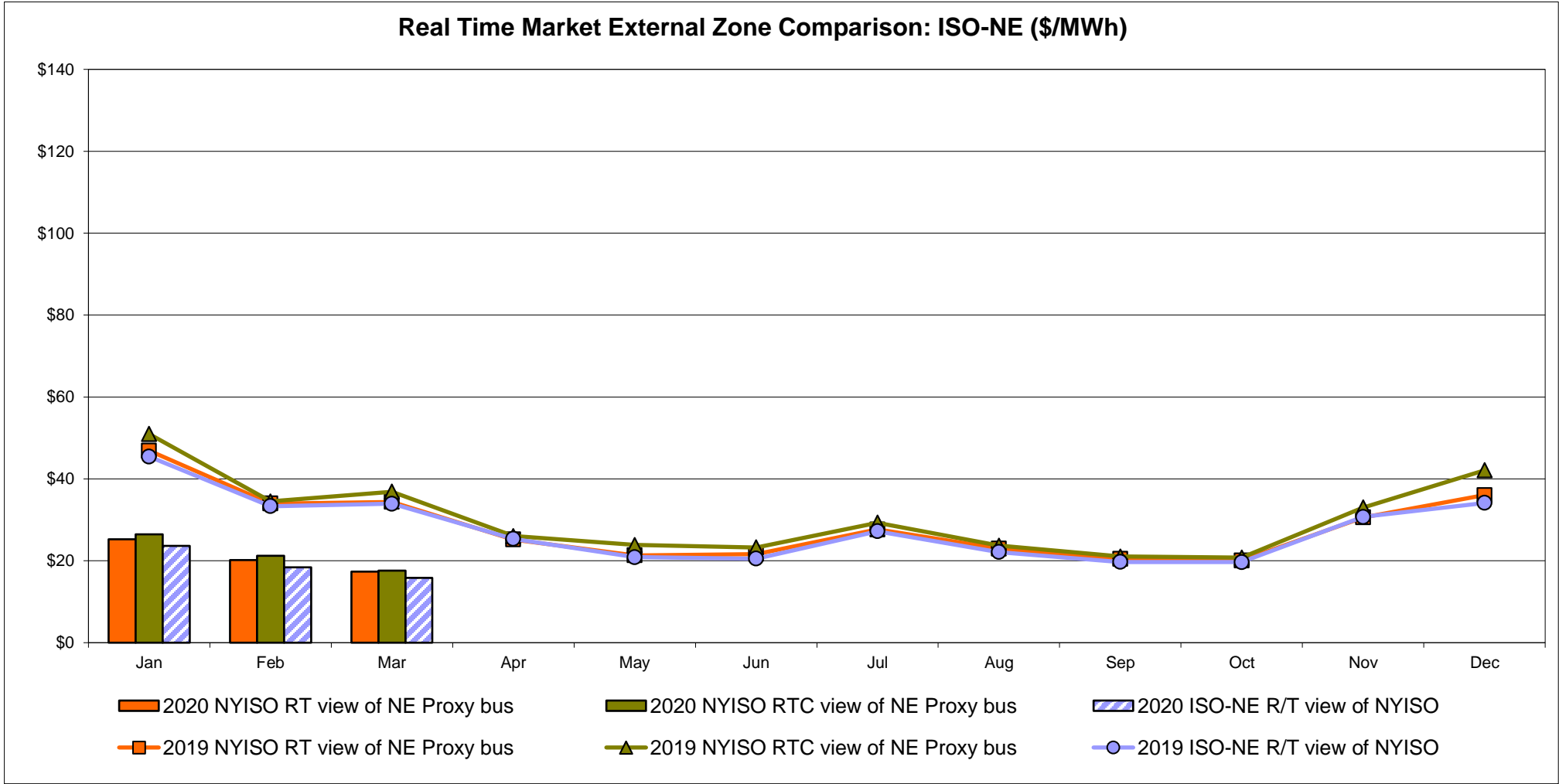
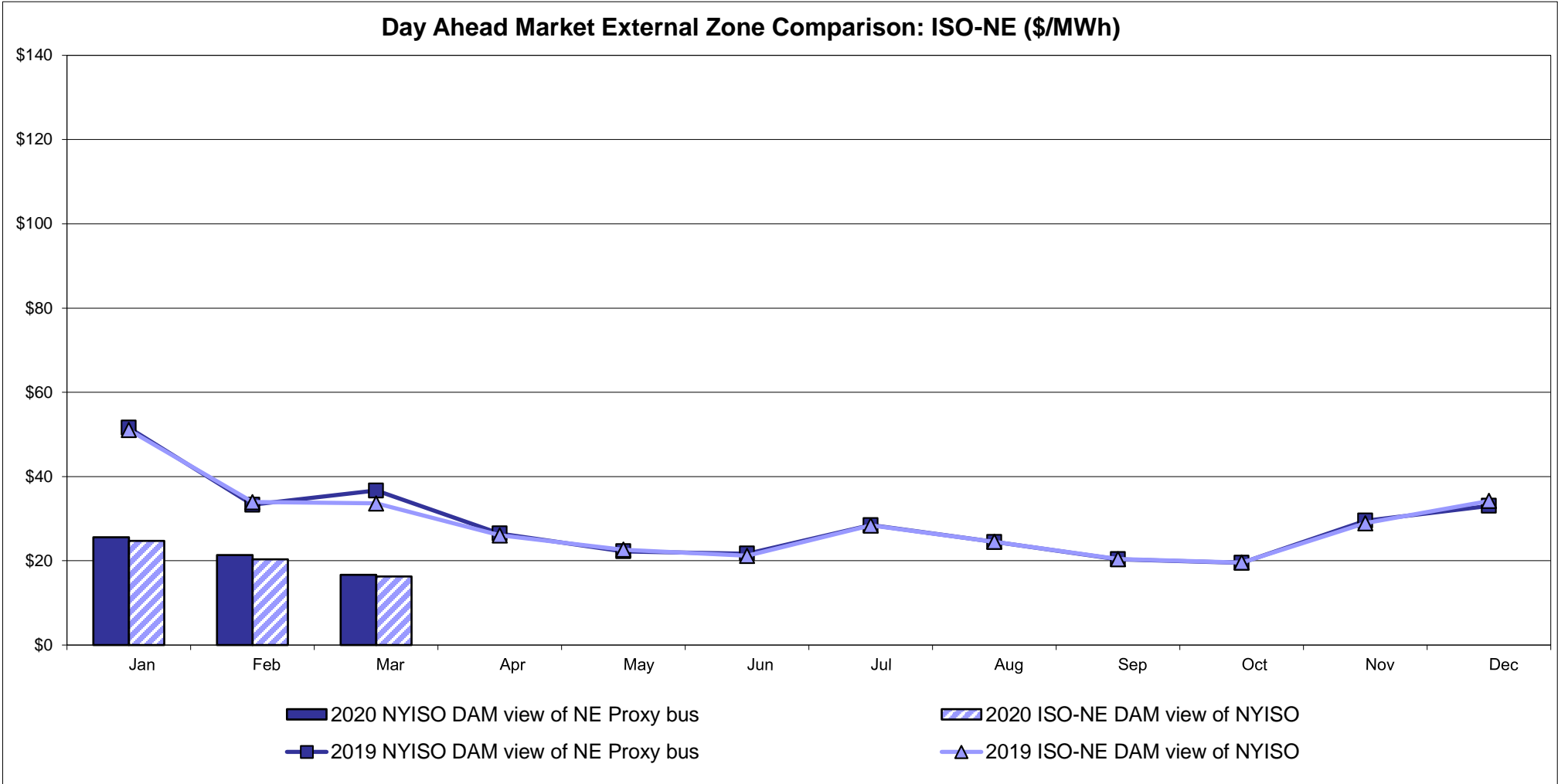
DAM Zonal Unweighted Monthly Average LBMP Components  
thru March 31, 2020



RT Zonal Unweighted Monthly Average LBMP Components  
thru March 31, 2020

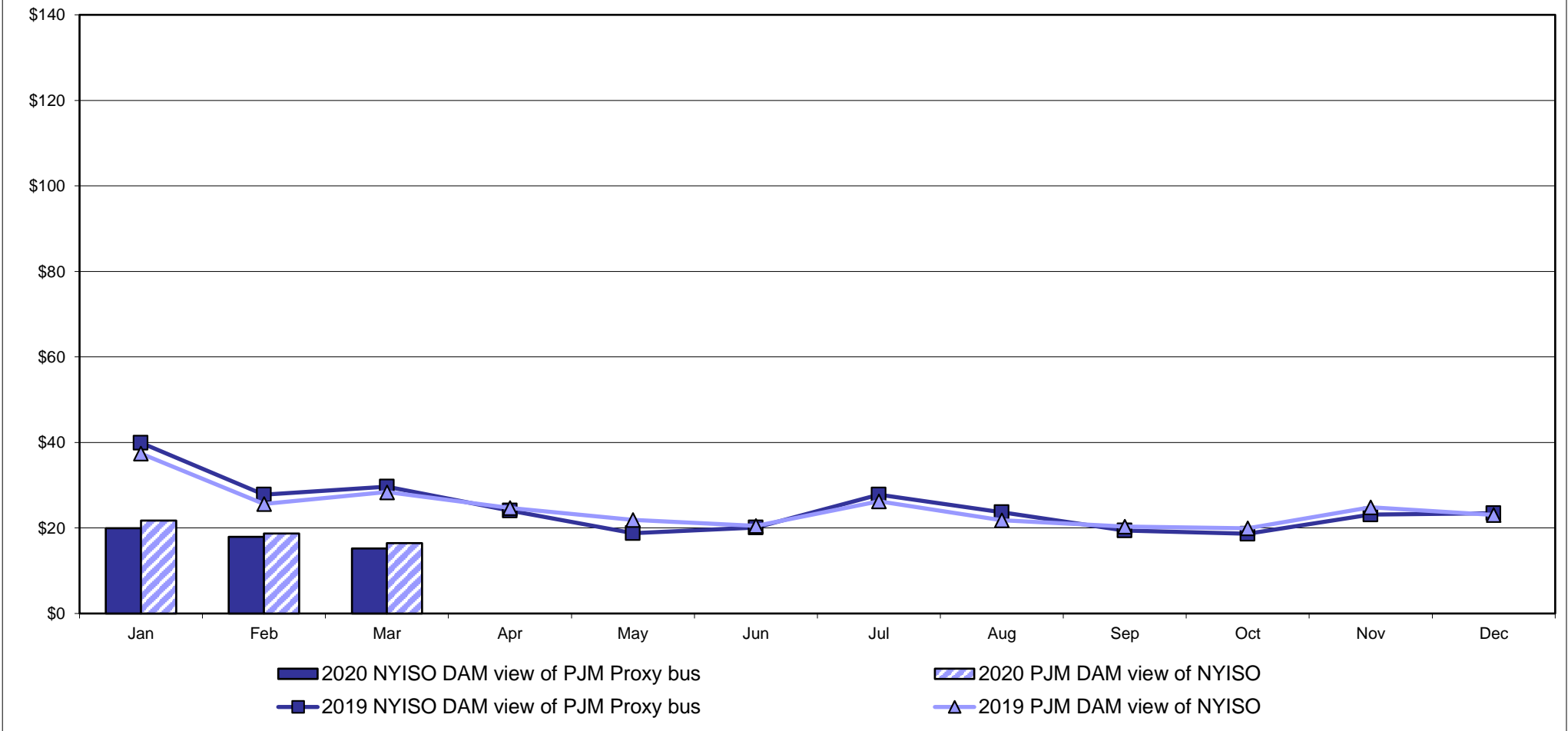


External Comparison ISO-New England

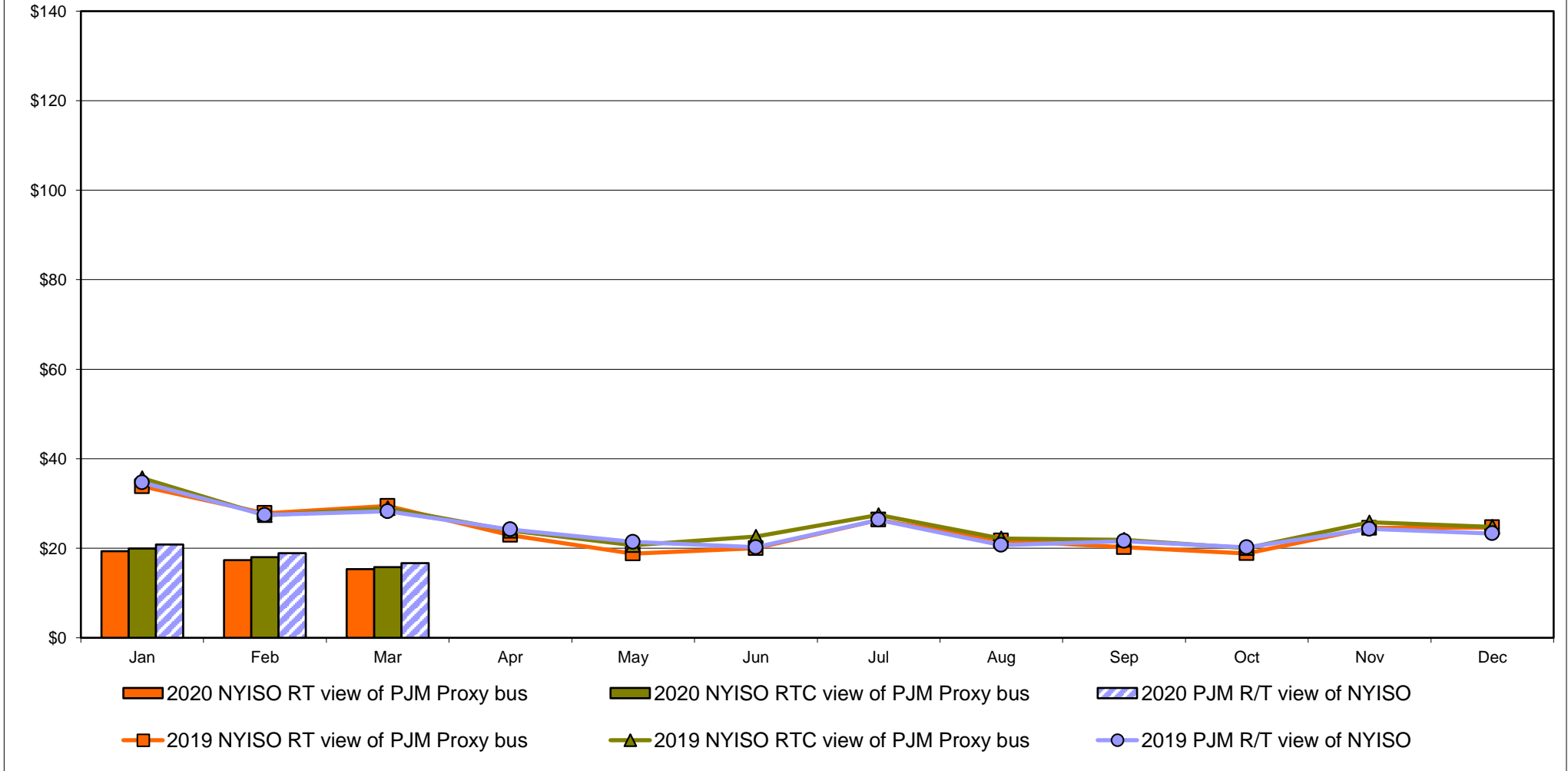


# External Comparison PJM

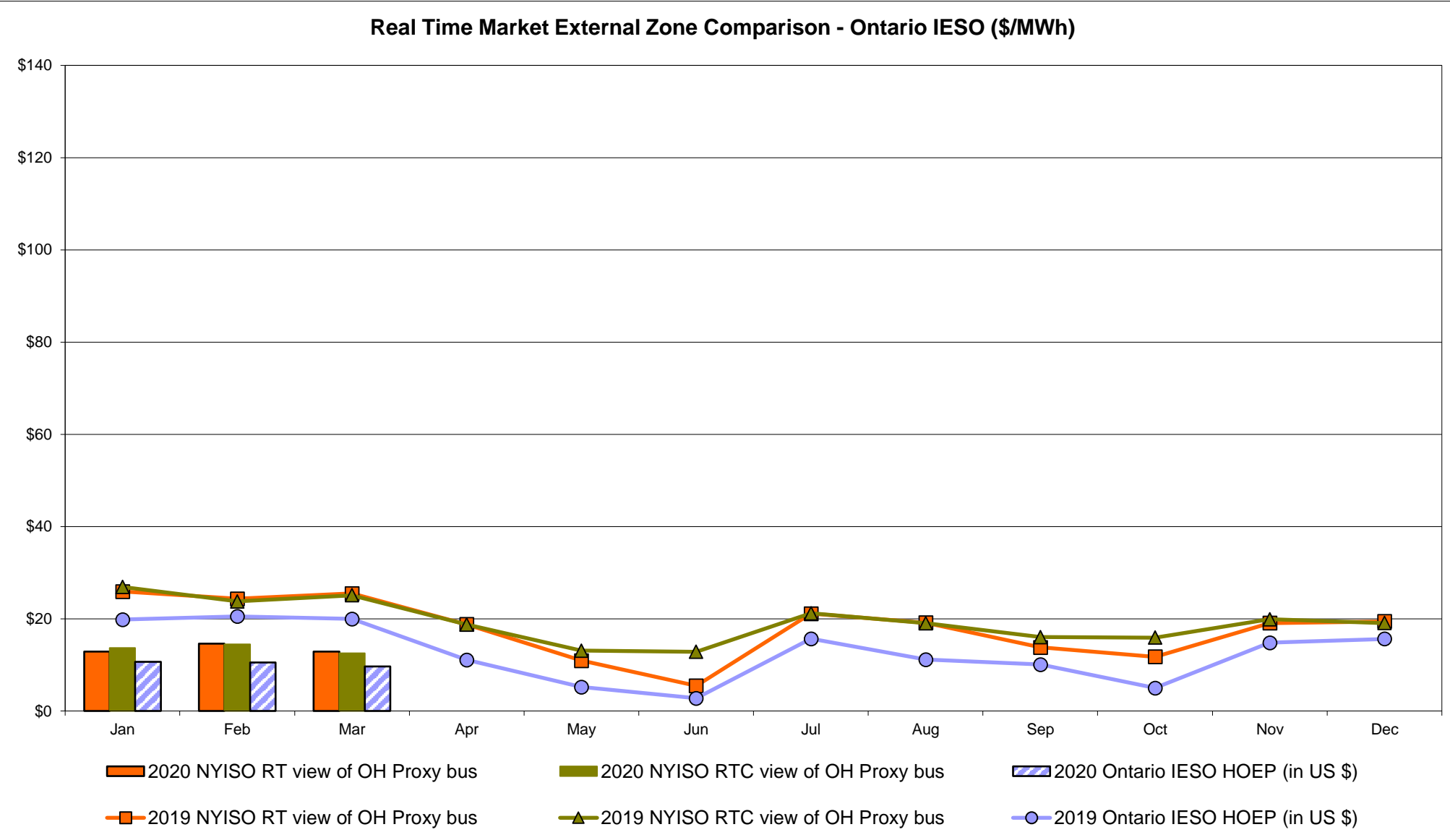
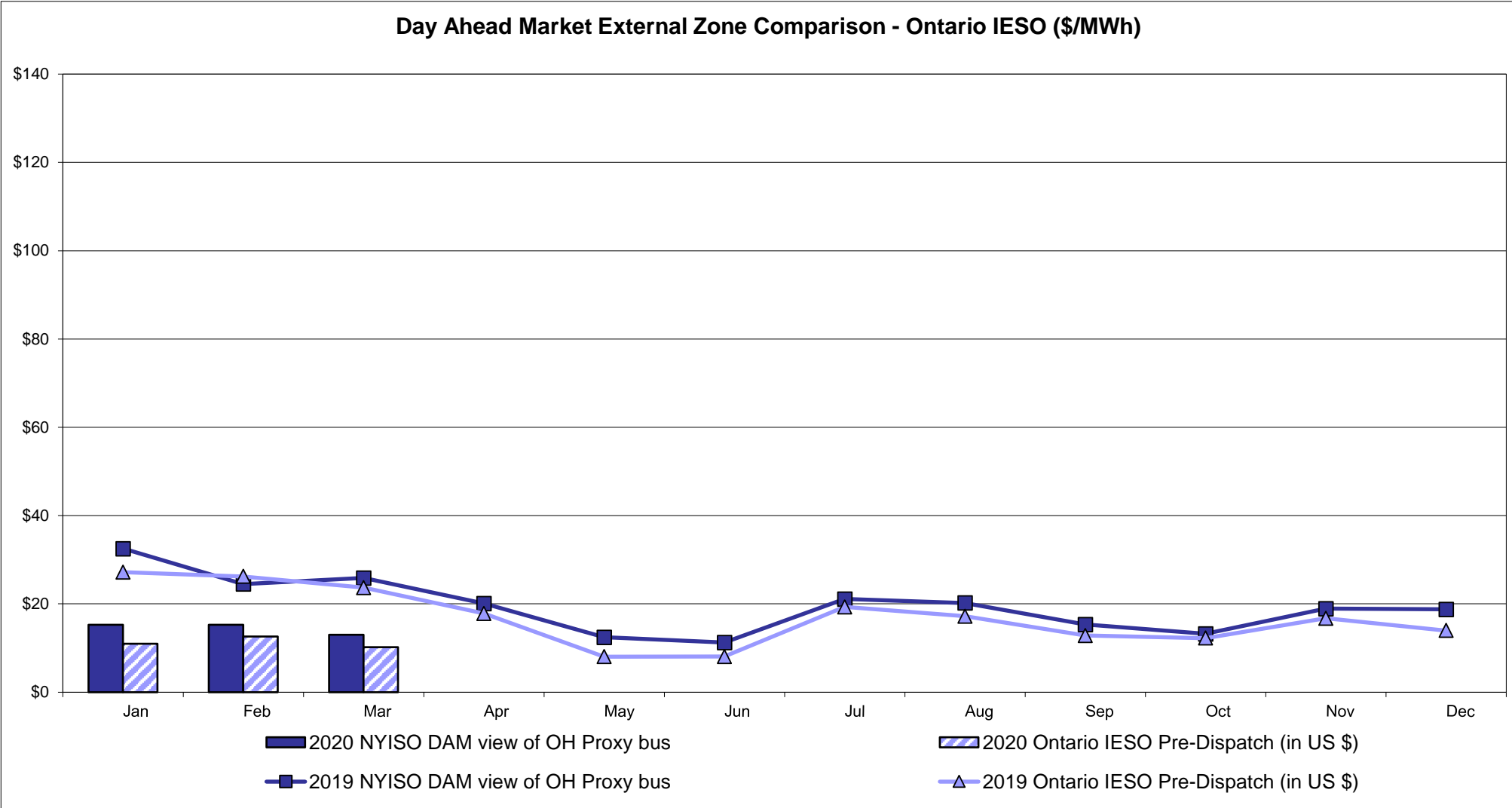
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

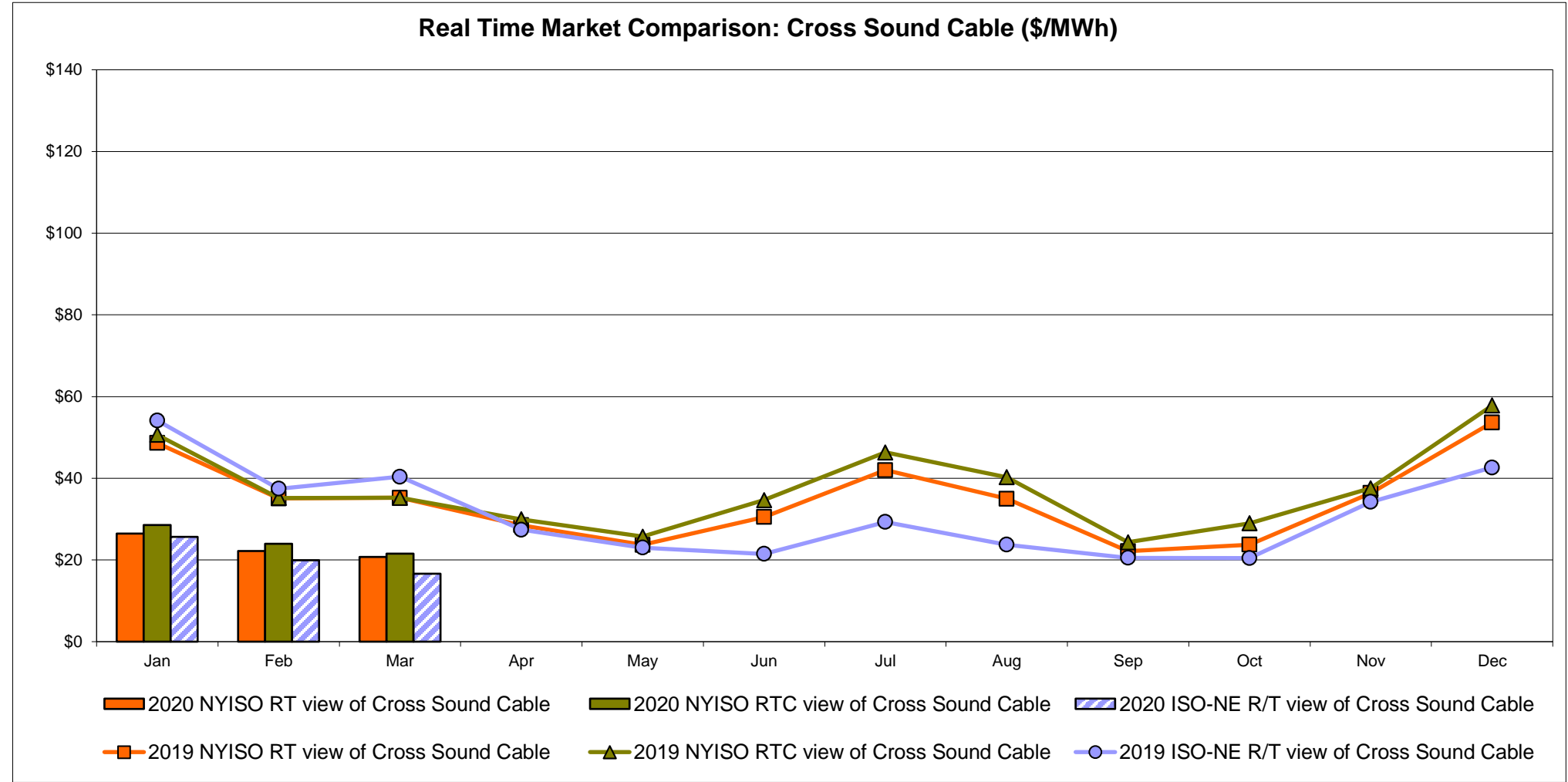
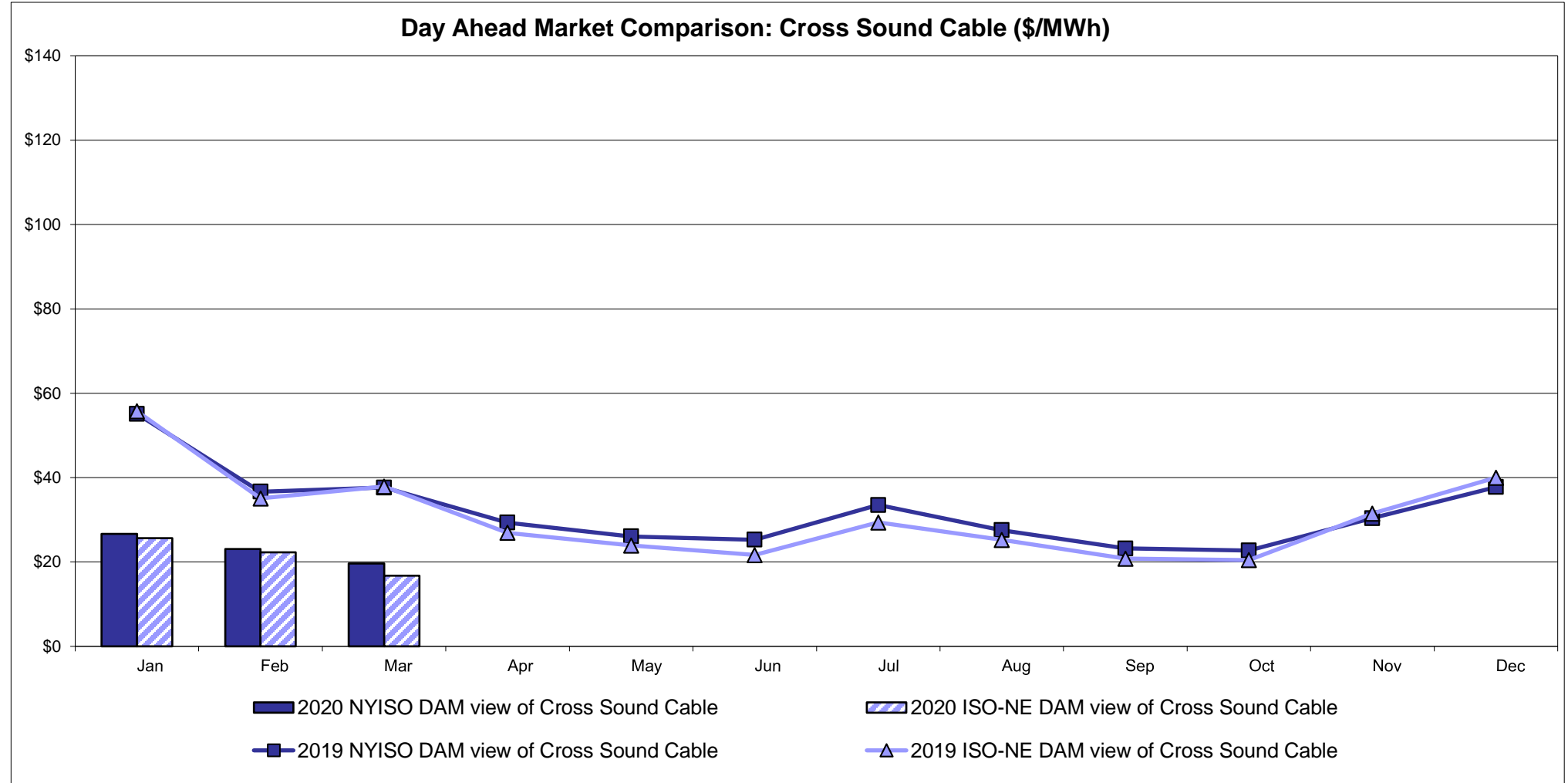


External Comparison Ontario IESO



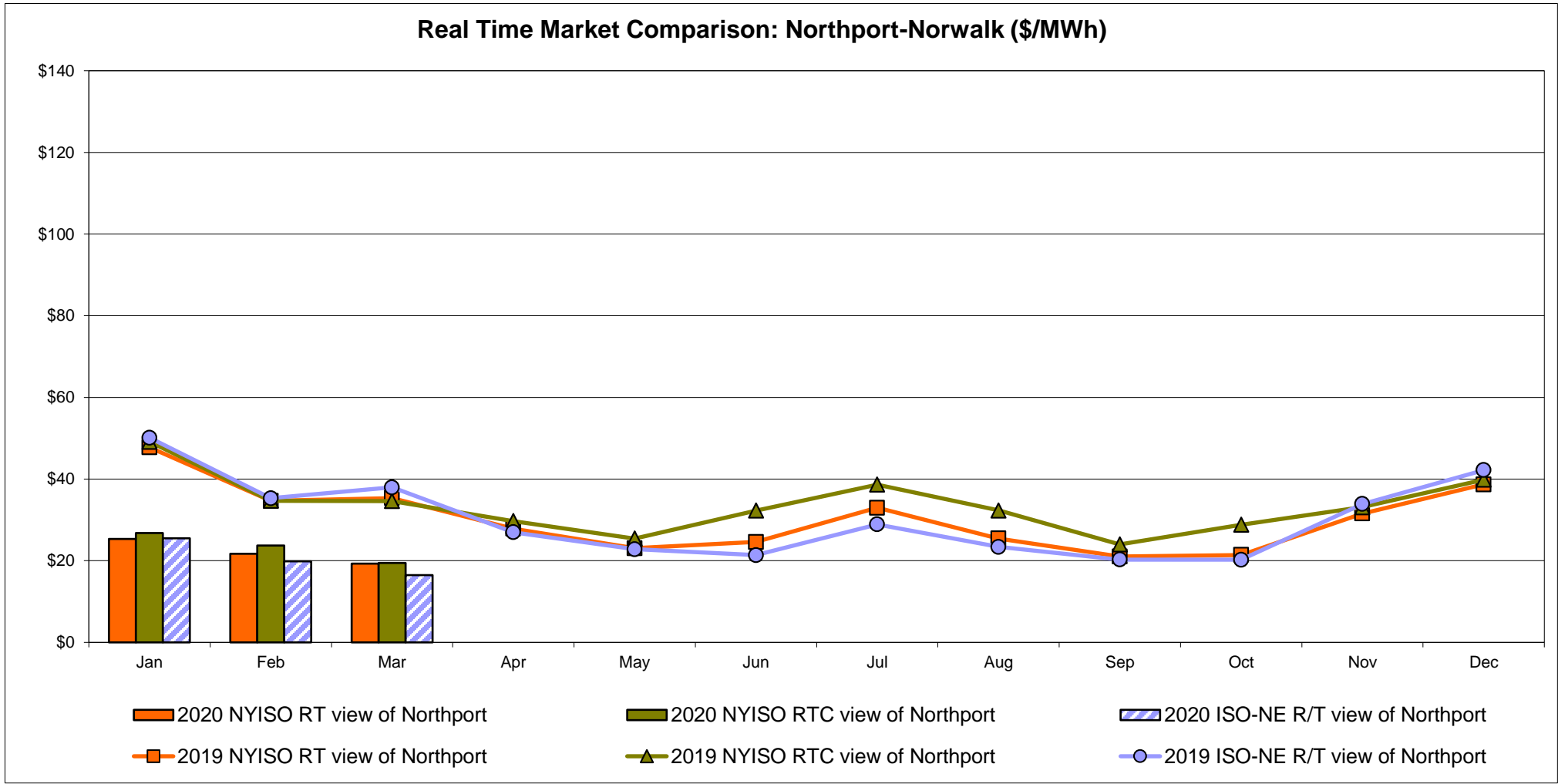
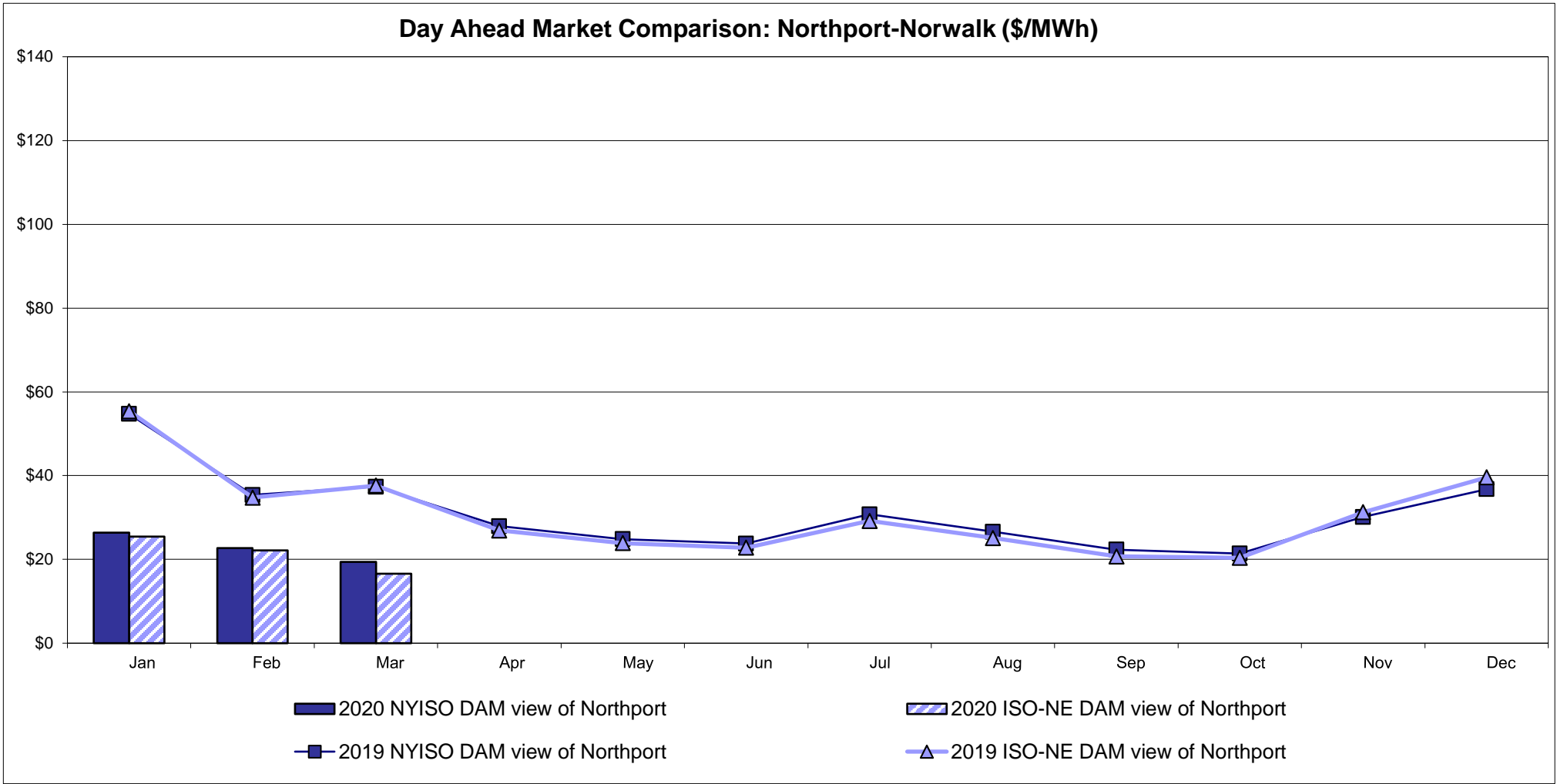
Notes: Exchange factor used for March 2020 was 0.716332378223496 to US  
HOEP: Hourly Ontario Energy Price  
Pre-Dispatch: Projected Energy Price

External Controllable Line: Cross Sound Cable (New England)



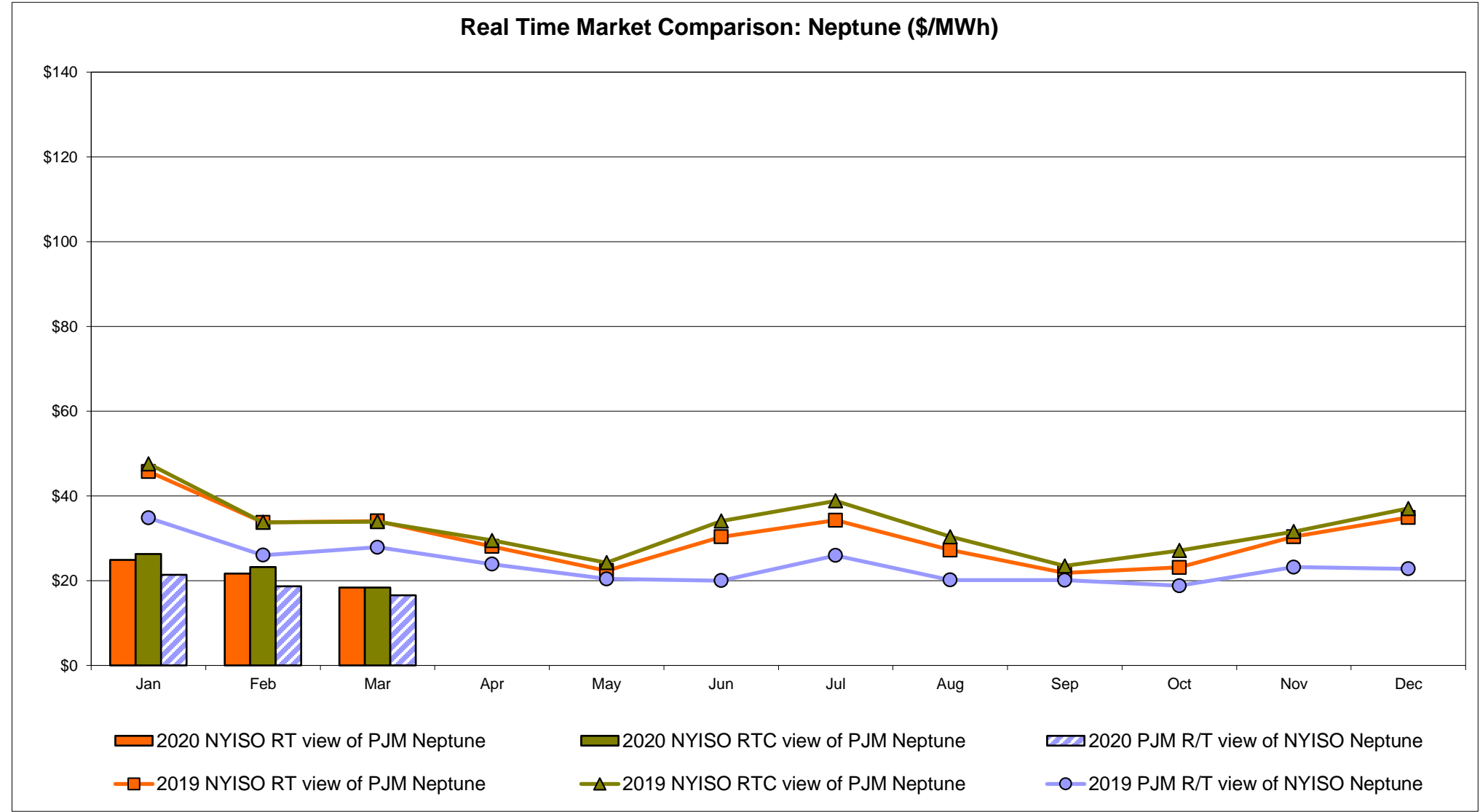
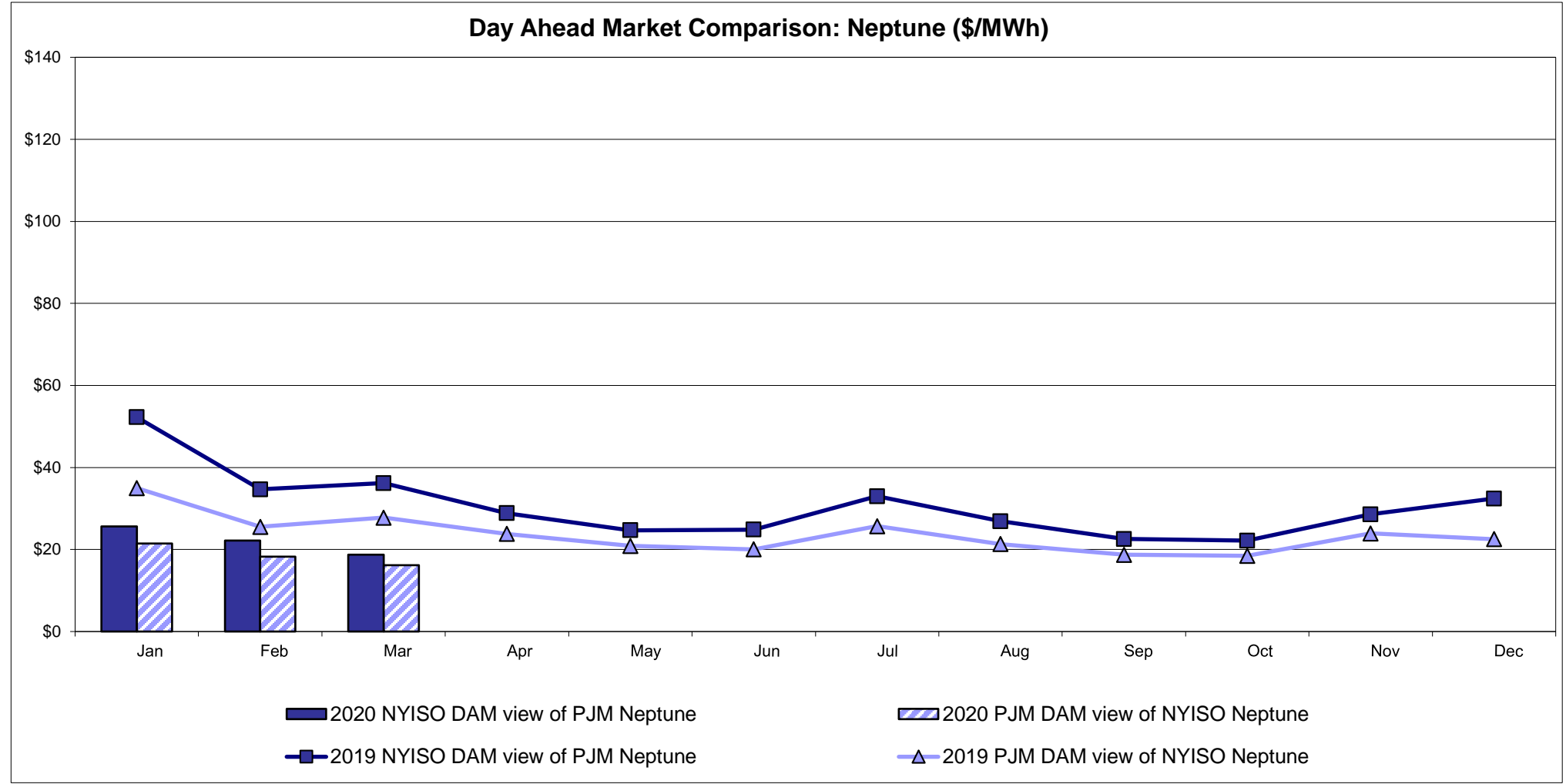
Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.  
The DAM and R/T prices at the CSC interface are used for NYISO.

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

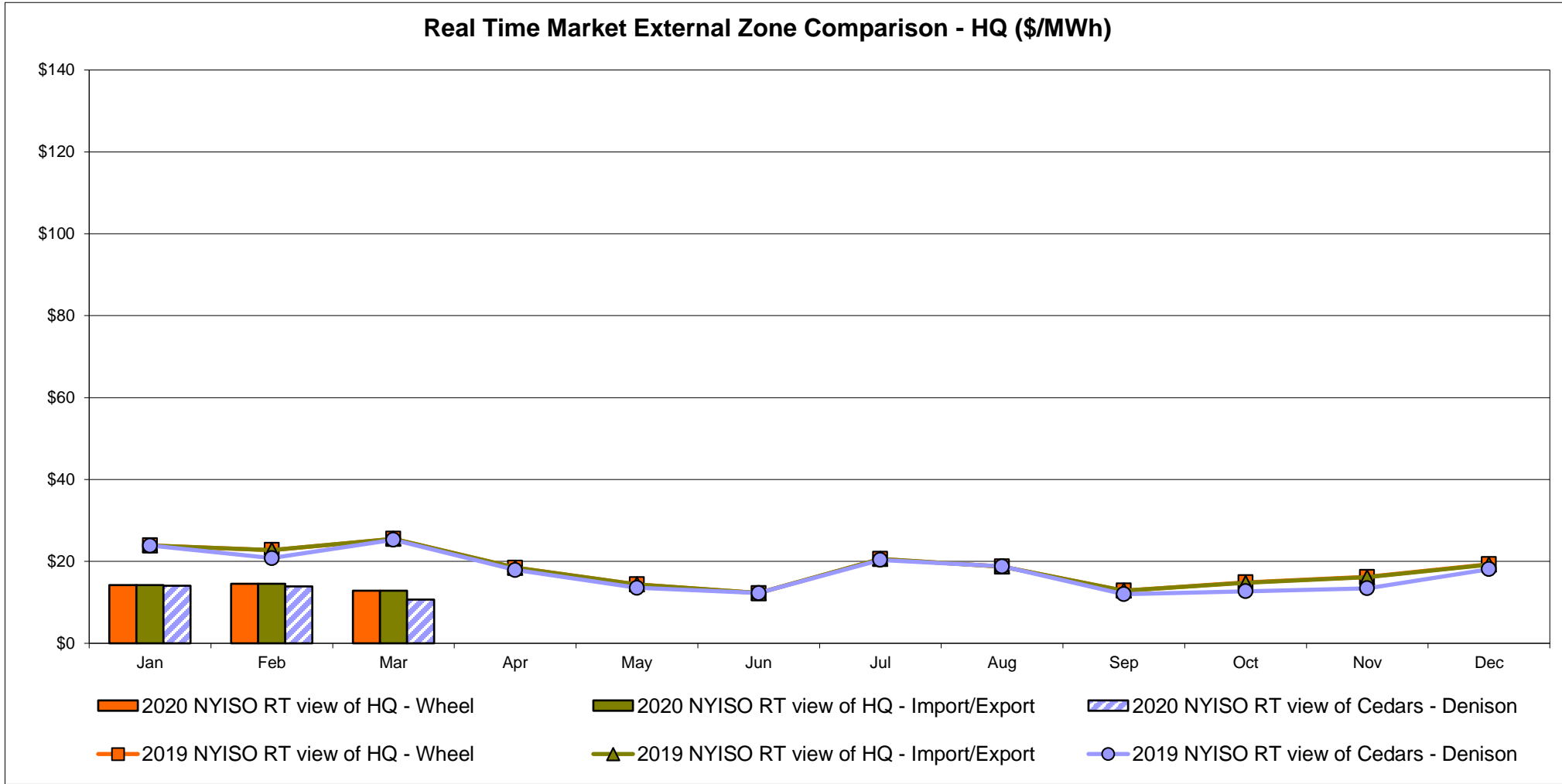
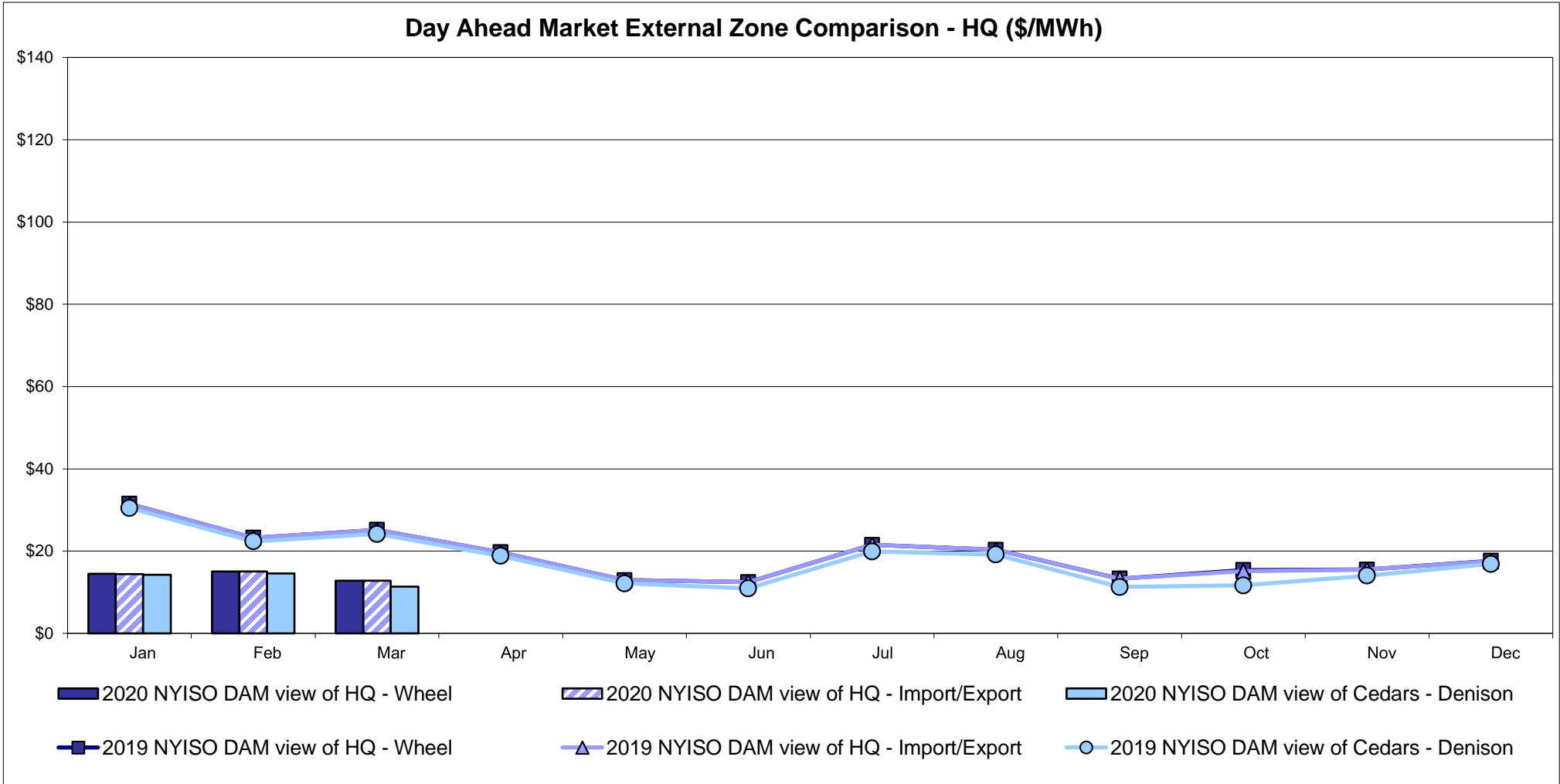


Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)



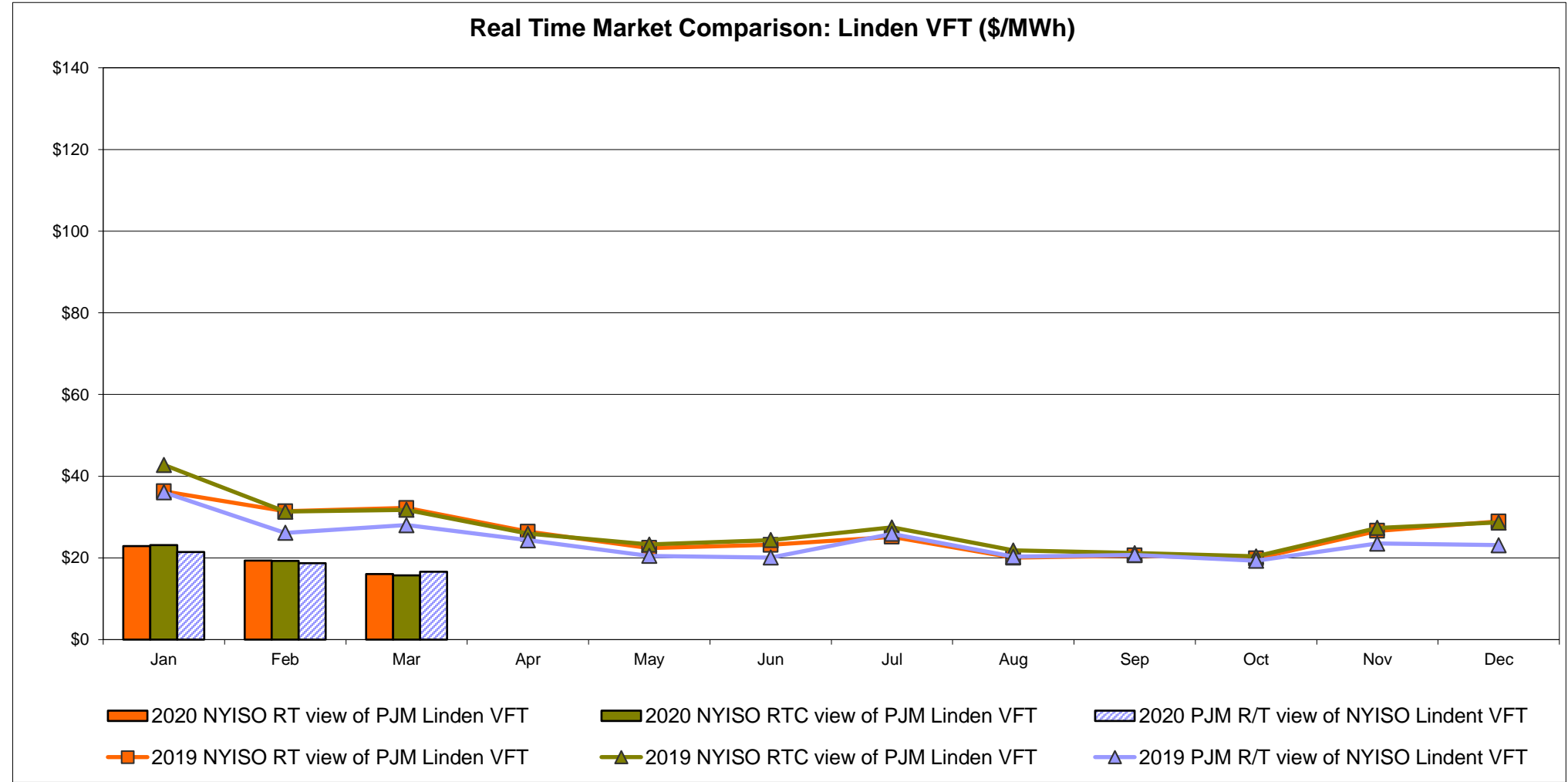
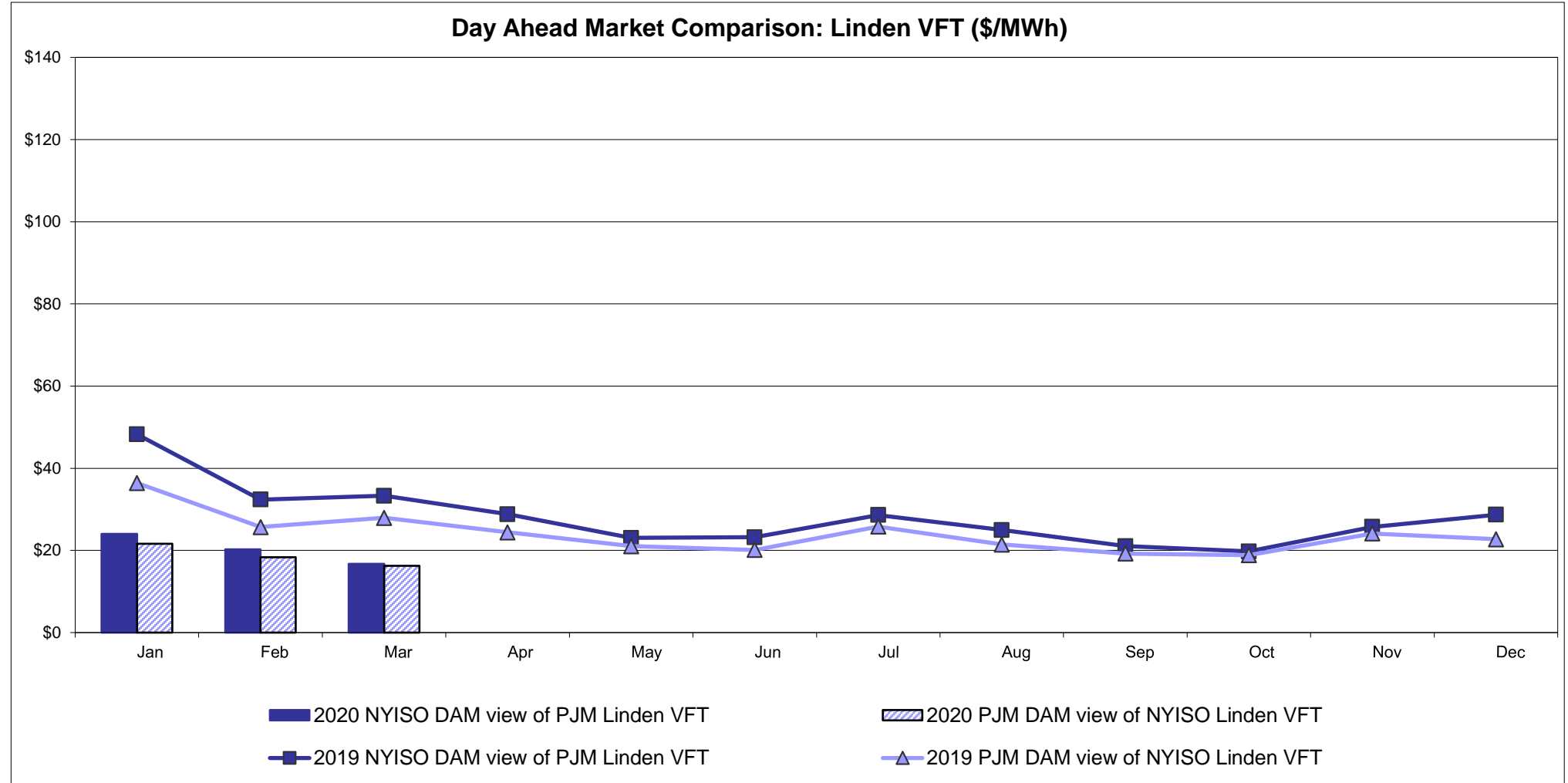
External Comparison Hydro-Quebec



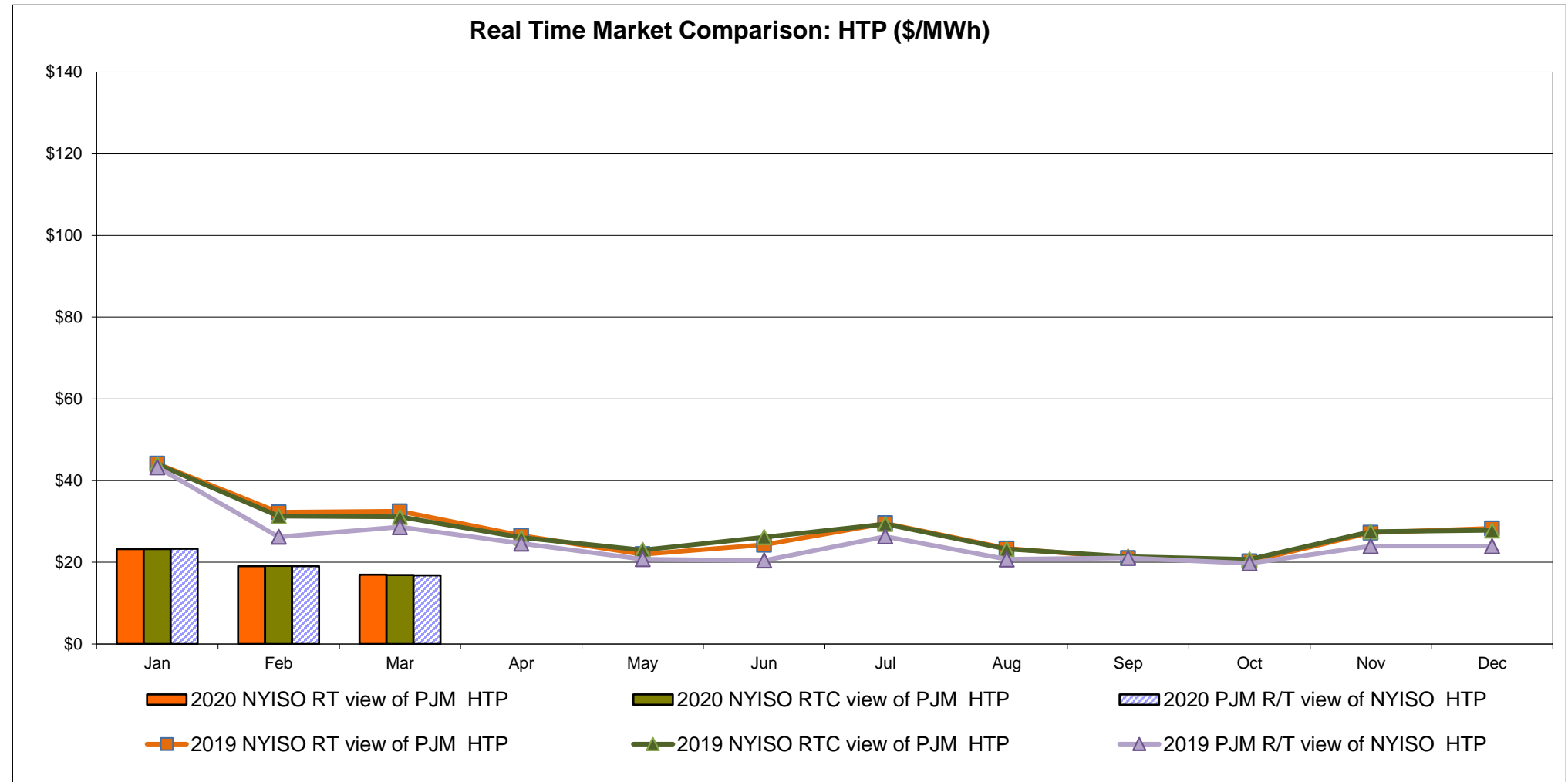
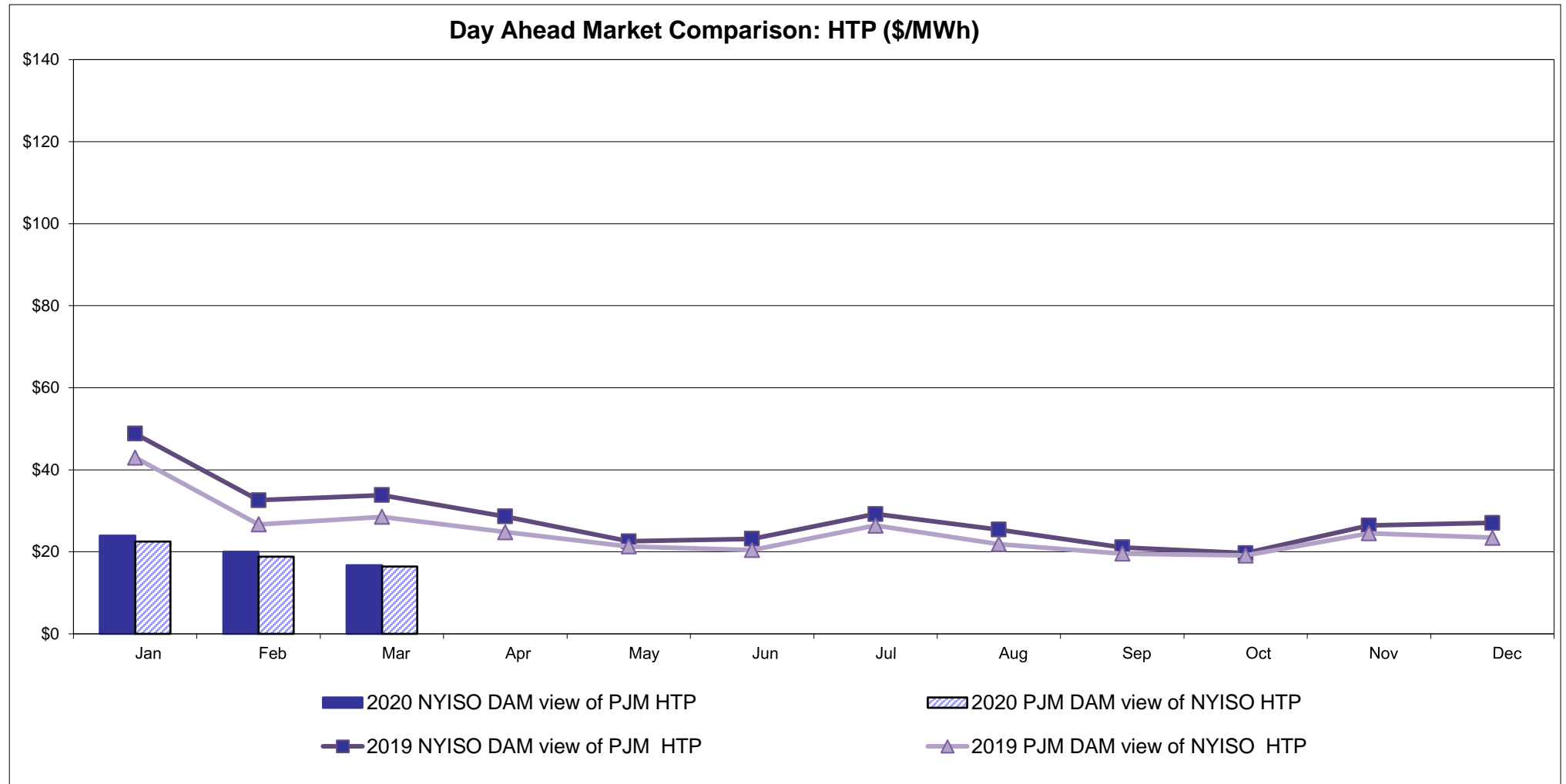
Note:  
Hydro-Quebec Prices are unavailable.



External Controllable Line: Linden VFT (PJM)



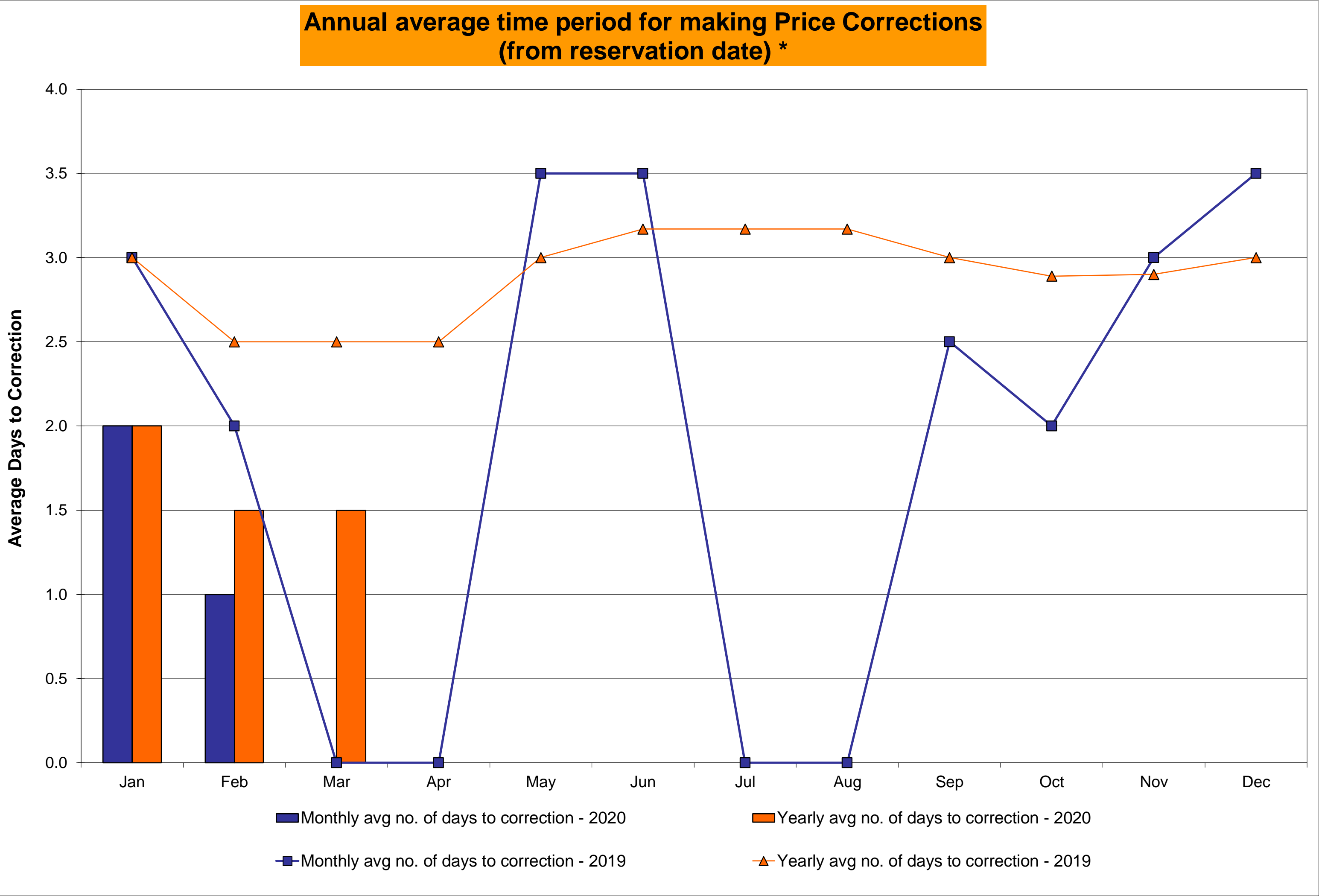
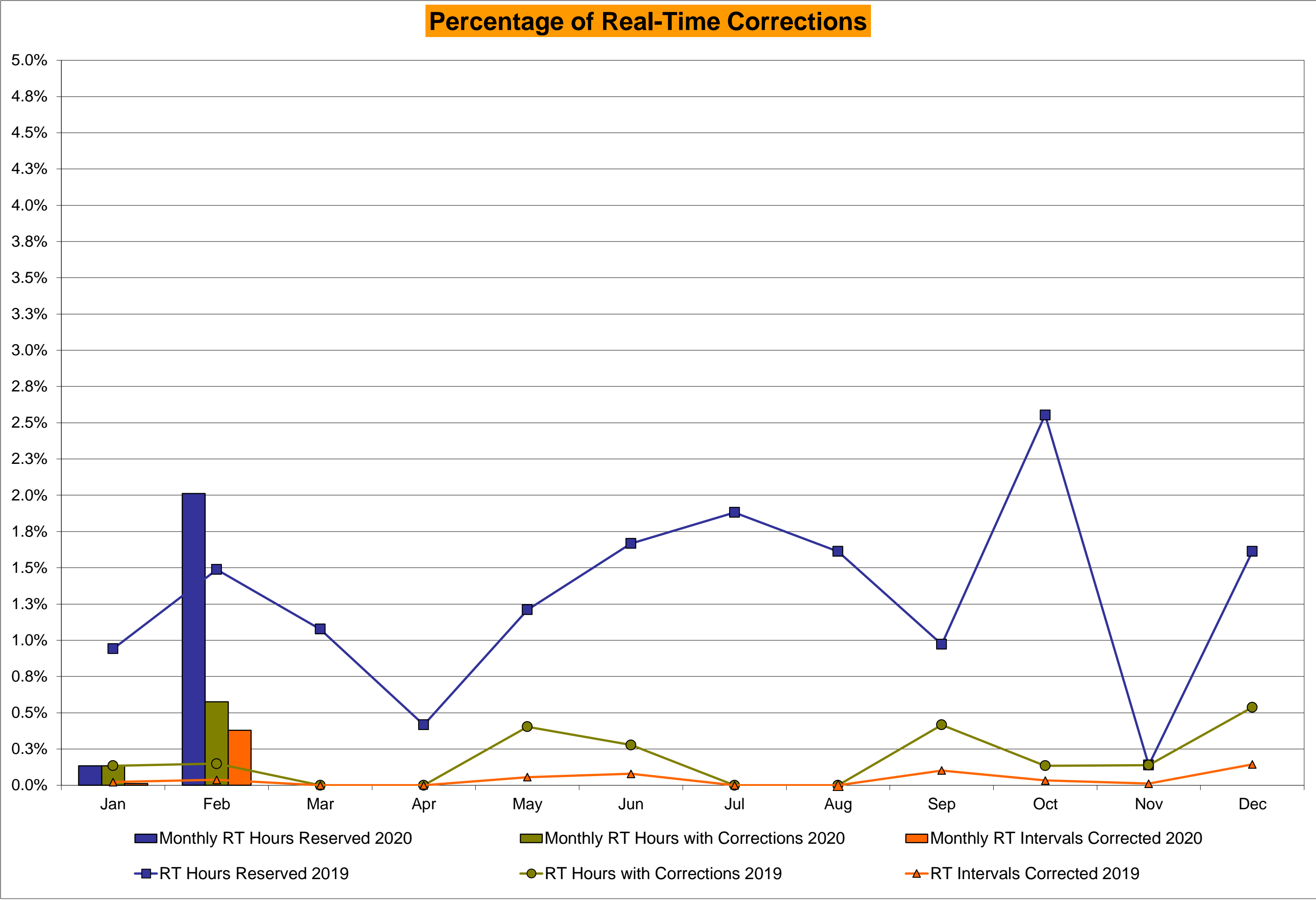
External Controllable Line: Hudson (PJM)



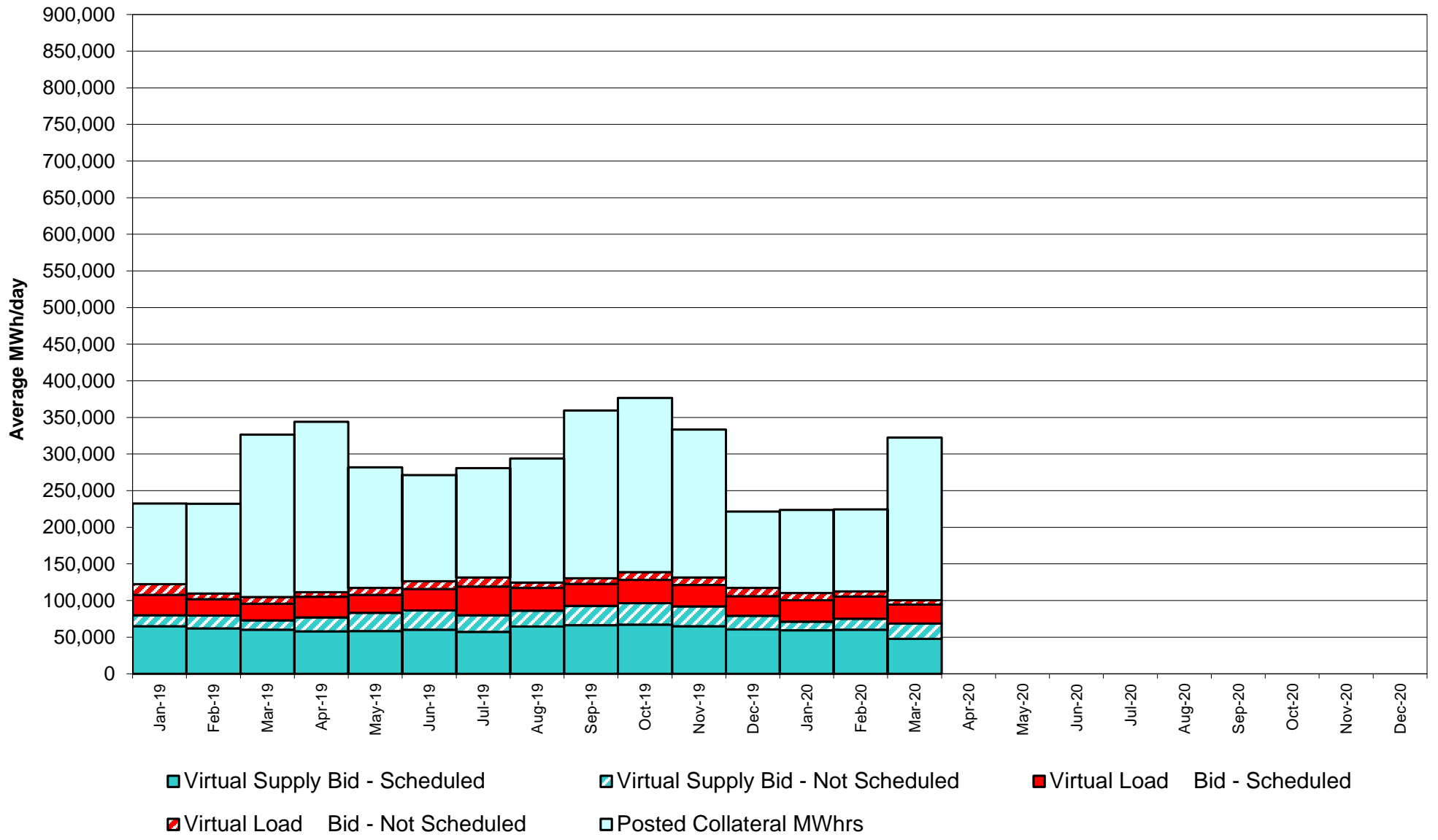
## NYISO Real Time Price Correction Statistics

| <b>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            |              |            |             |             |               |                  |                |                 |                 |
| Number of hours                        | in the month | 744            | 696             | 743          |              |            |             |             |               |                  |                |                 |                 |
| % of hours with corrections            | in the month | 0.13%          | 0.57%           | 0.00%        |              |            |             |             |               |                  |                |                 |                 |
| % of hours with corrections            | year-to-date | 0.13%          | 0.35%           | 0.23%        |              |            |             |             |               |                  |                |                 |                 |
| <b><u>Interval Corrections</u></b>     |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of intervals corrected          | in the month | 1              | 32              | 0            |              |            |             |             |               |                  |                |                 |                 |
| Number of intervals                    | in the month | 9,088          | 8,460           | 9,011        |              |            |             |             |               |                  |                |                 |                 |
| % of intervals corrected               | in the month | 0.01%          | 0.38%           | 0.00%        |              |            |             |             |               |                  |                |                 |                 |
| % of intervals corrected               | year-to-date | 0.01%          | 0.19%           | 0.12%        |              |            |             |             |               |                  |                |                 |                 |
| <b><u>Hours Reserved</u></b>           |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of hours reserved               | in the month | 1              | 14              | 0            |              |            |             |             |               |                  |                |                 |                 |
| Number of hours                        | in the month | 744            | 696             | 743          |              |            |             |             |               |                  |                |                 |                 |
| % of hours reserved                    | in the month | 0.13%          | 2.01%           | 0.00%        |              |            |             |             |               |                  |                |                 |                 |
| % of hours reserved                    | year-to-date | 0.13%          | 1.04%           | 0.69%        |              |            |             |             |               |                  |                |                 |                 |
| <b><u>Days to Correction</u> *</b>     |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Avg. number of days to correction      | in the month | 2.00           | 1.00            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| Avg. number of days to correction      | year-to-date | 2.00           | 1.50            | 1.50         |              |            |             |             |               |                  |                |                 |                 |
| <b><u>Days Without Corrections</u></b> |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Days without corrections               | in the month | 30             | 28              | 31           |              |            |             |             |               |                  |                |                 |                 |
| Days without corrections               | year-to-date | 30             | 58              | 89           |              |            |             |             |               |                  |                |                 |                 |
| <b>2019</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              | 1               | 0            | 0            | 3          | 2           | 0           | 0             | 3                | 1              | 1               | 4               |
| 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 | 0.13%          | 0.15%           | 0.00%        | 0.00%        | 0.40%      | 0.28%       | 0.00%       | 0.00%         | 0.42%            | 0.13%          | 0.14%           | 0.54%           |
| % of hours with corrections            | year-to-date | 0.13%          | 0.14%           | 0.09%        | 0.07%        | 0.14%      | 0.16%       | 0.14%       | 0.12%         | 0.15%            | 0.15%          | 0.15%           | 0.18%           |
| <b><u>Interval Corrections</u></b>     |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of intervals corrected          | in the month | 2              | 3               | 0            | 0            | 5          | 7           | 0           | 0             | 9                | 3              | 1               | 13              |
| Number of intervals                    | in the month | 9,071          | 8,131           | 9,008        | 8,750        | 9,033      | 8,863       | 9,243       | 9,048         | 8,820            | 9,087          | 8,788           | 9,021           |
| % of intervals corrected               | in the month | 0.02%          | 0.04%           | 0.00%        | 0.00%        | 0.06%      | 0.08%       | 0.00%       | 0.00%         | 0.10%            | 0.03%          | 0.01%           | 0.14%           |
| % of intervals corrected               | year-to-date | 0.02%          | 0.03%           | 0.02%        | 0.01%        | 0.02%      | 0.03%       | 0.03%       | 0.02%         | 0.03%            | 0.03%          | 0.03%           | 0.04%           |
| <b><u>Hours Reserved</u></b>           |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Number of hours reserved               | in the month | 7              | 10              | 8            | 3            | 9          | 12          | 14          | 12            | 7                | 19             | 1               | 12              |
| Number of hours                        | in the month | 744            | 672             | 743          | 720          | 744        | 720         | 744         | 744           | 720              | 744            | 721             | 744             |
| % of hours reserved                    | in the month | 0.94%          | 1.49%           | 1.08%        | 0.42%        | 1.21%      | 1.67%       | 1.88%       | 1.61%         | 0.97%            | 2.55%          | 0.14%           | 1.61%           |
| % of hours reserved                    | year-to-date | 0.94%          | 1.20%           | 1.16%        | 0.97%        | 1.02%      | 1.13%       | 1.24%       | 1.29%         | 1.25%            | 1.38%          | 1.27%           | 1.30%           |
| <b><u>Days to Correction</u> *</b>     |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Avg. number of days to correction      | in the month | 3.00           | 2.00            | 0.00         | 0.00         | 3.50       | 3.50        | 0.00        | 0.00          | 2.50             | 2.00           | 3.00            | 3.50            |
| Avg. number of days to correction      | year-to-date | 3.00           | 2.50            | 2.50         | 2.50         | 3.00       | 3.17        | 3.17        | 3.17          | 3.00             | 2.89           | 2.90            | 3.00            |
| <b><u>Days Without Corrections</u></b> |              |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| Days without corrections               | in the month | 30             | 27              | 31           | 30           | 29         | 28          | 31          | 31            | 28               | 30             | 29              | 29              |
| Days without corrections               | year-to-date | 30             | 57              | 88           | 118          | 147        | 175         | 206         | 237           | 265              | 295            | 324             | 353             |

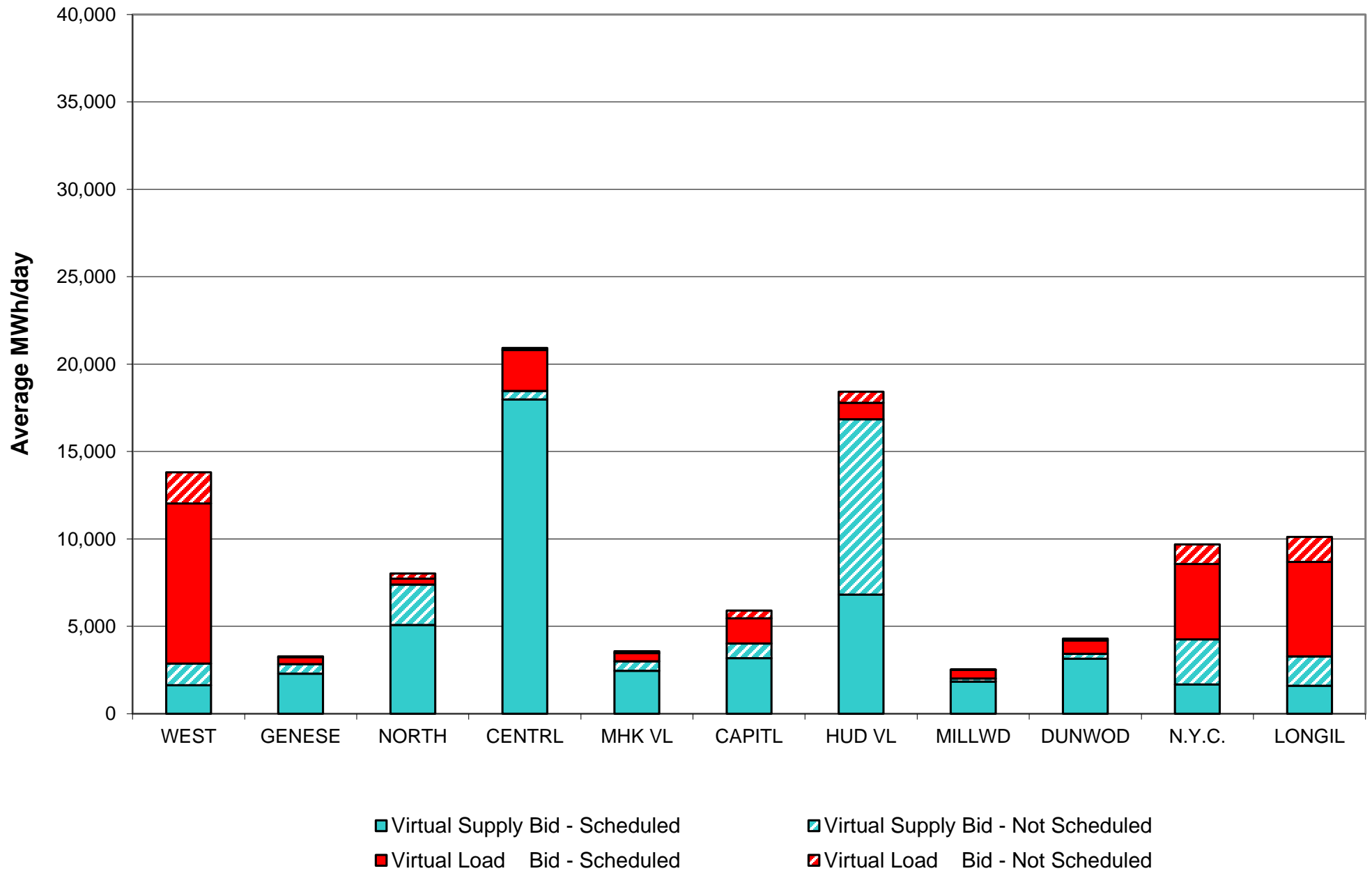
\*Calendar days from reservation date; for June 2018 forward, business days from market date



# NYISO Virtual Trading Average MWh per day



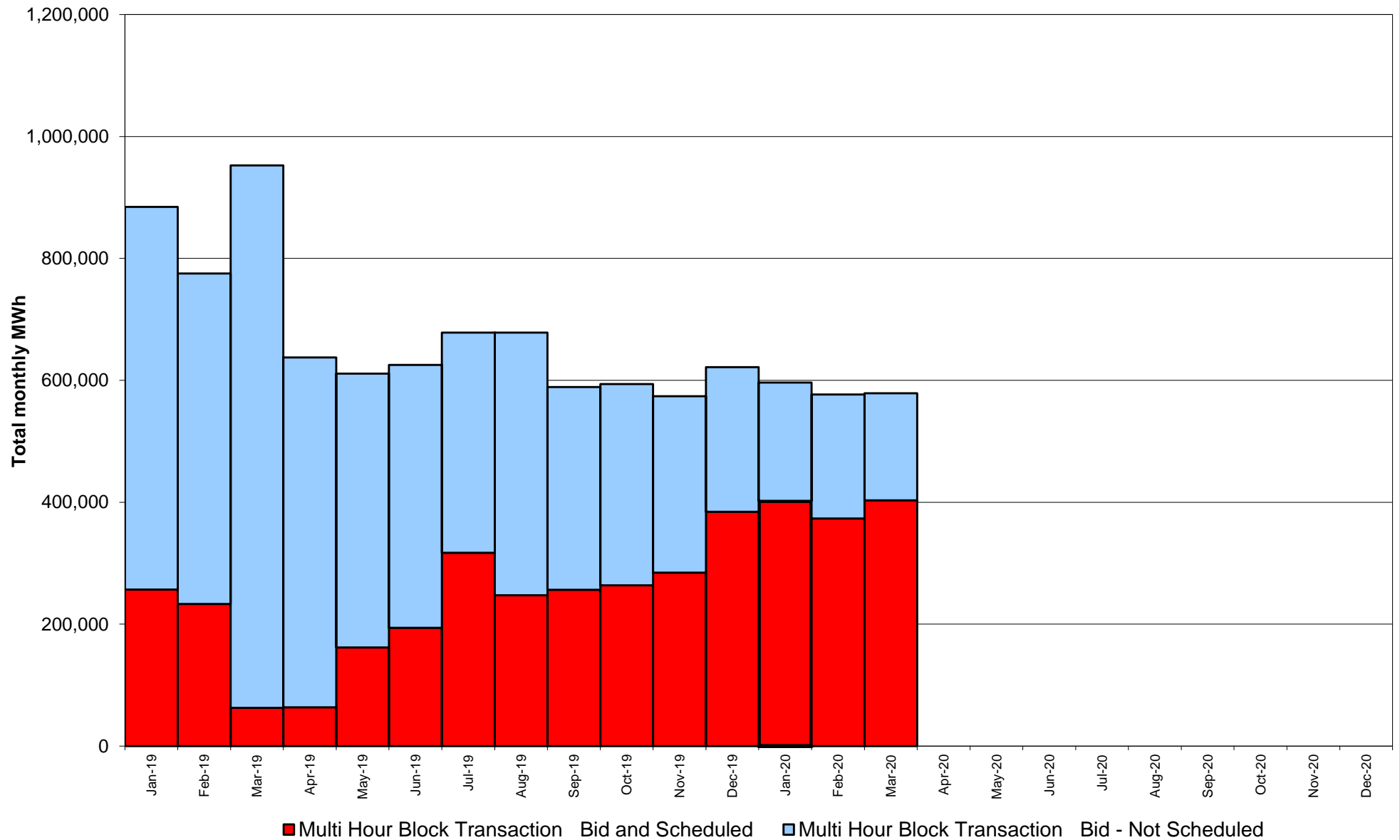
# Virtual Load and Supply Zonal Statistics through March 31, 2020



## Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2020

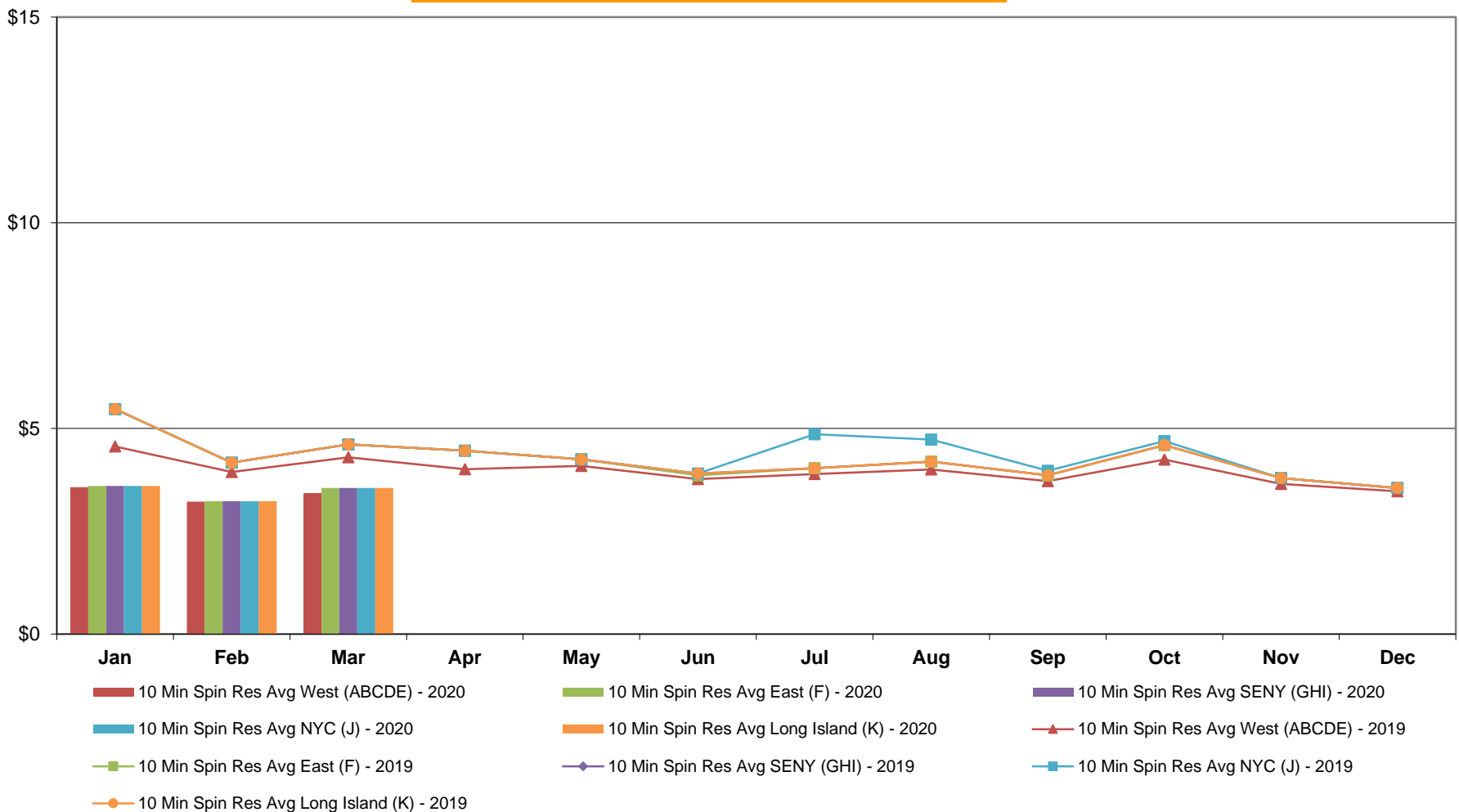
|        |        | Virtual Load Bid |               | Virtual Supply Bid |               |  |        | Virtual Load Bid |           | Virtual Supply Bid |           |               |  | Virtual Load Bid |        | Virtual Supply Bid |               |           |               |
|--------|--------|------------------|---------------|--------------------|---------------|--|--------|------------------|-----------|--------------------|-----------|---------------|--|------------------|--------|--------------------|---------------|-----------|---------------|
| 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-20 | 7,809            | 1,328         | 1,765              | 984           |  | MHK VL | Jan-20           | 747       | 77                 | 2,155     | 793           |  | DUNWOD           | Jan-20 | 1,120              | 241           | 3,191     | 370           |
|        | Feb-20 | 8,213            | 1,248         | 2,597              | 947           |  |        | Feb-20           | 724       | 88                 | 2,339     | 504           |  |                  | Feb-20 | 536                | 298           | 3,782     | 368           |
|        | Mar-20 | 9,155            | 1,778         | 1,637              | 1,236         |  |        | Mar-20           | 481       | 97                 | 2,455     | 542           |  |                  | Mar-20 | 766                | 109           | 3,143     | 282           |
|        | Apr-20 |                  |               |                    |               |  |        | Apr-20           |           |                    |           |               |  |                  | Apr-20 |                    |               |           |               |
|        | May-20 |                  |               |                    |               |  |        | May-20           |           |                    |           |               |  |                  | May-20 |                    |               |           |               |
|        | Jun-20 |                  |               |                    |               |  |        | Jun-20           |           |                    |           |               |  |                  | Jun-20 |                    |               |           |               |
|        | Jul-20 |                  |               |                    |               |  |        | Jul-20           |           |                    |           |               |  |                  | Jul-20 |                    |               |           |               |
|        | Aug-20 |                  |               |                    |               |  |        | Aug-20           |           |                    |           |               |  |                  | Aug-20 |                    |               |           |               |
|        | Sep-20 |                  |               |                    |               |  |        | Sep-20           |           |                    |           |               |  |                  | Sep-20 |                    |               |           |               |
|        | Oct-20 |                  |               |                    |               |  |        | Oct-20           |           |                    |           |               |  |                  | Oct-20 |                    |               |           |               |
|        | Nov-20 |                  |               |                    |               |  |        | Nov-20           |           |                    |           |               |  |                  | Nov-20 |                    |               |           |               |
|        | Dec-20 |                  |               |                    |               |  |        | Dec-20           |           |                    |           |               |  |                  | Dec-20 |                    |               |           |               |
| GENESE | Jan-20 | 553              | 131           | 1,749              | 995           |  | CAPITL | Jan-20           | 1,772     | 539                | 3,324     | 1,235         |  | N.Y.C.           | Jan-20 | 6,699              | 2,678         | 2,148     | 1,639         |
|        | Feb-20 | 534              | 79            | 2,082              | 640           |  |        | Feb-20           | 2,046     | 418                | 3,149     | 673           |  |                  | Feb-20 | 9,452              | 1,841         | 1,316     | 1,894         |
|        | Mar-20 | 397              | 46            | 2,294              | 550           |  |        | Mar-20           | 1,446     | 443                | 3,181     | 837           |  |                  | Mar-20 | 4,317              | 1,126         | 1,676     | 2,571         |
|        | Apr-20 |                  |               |                    |               |  |        | Apr-20           |           |                    |           |               |  |                  | Apr-20 |                    |               |           |               |
|        | May-20 |                  |               |                    |               |  |        | May-20           |           |                    |           |               |  |                  | May-20 |                    |               |           |               |
|        | Jun-20 |                  |               |                    |               |  |        | Jun-20           |           |                    |           |               |  |                  | Jun-20 |                    |               |           |               |
|        | Jul-20 |                  |               |                    |               |  |        | Jul-20           |           |                    |           |               |  |                  | Jul-20 |                    |               |           |               |
|        | Aug-20 |                  |               |                    |               |  |        | Aug-20           |           |                    |           |               |  |                  | Aug-20 |                    |               |           |               |
|        | Sep-20 |                  |               |                    |               |  |        | Sep-20           |           |                    |           |               |  |                  | Sep-20 |                    |               |           |               |
|        | Oct-20 |                  |               |                    |               |  |        | Oct-20           |           |                    |           |               |  |                  | Oct-20 |                    |               |           |               |
|        | Nov-20 |                  |               |                    |               |  |        | Nov-20           |           |                    |           |               |  |                  | Nov-20 |                    |               |           |               |
|        | Dec-20 |                  |               |                    |               |  |        | Dec-20           |           |                    |           |               |  |                  | Dec-20 |                    |               |           |               |
| NORTH  | Jan-20 | 811              | 206           | 5,038              | 1,765         |  | HUD VL | Jan-20           | 891       | 1,274              | 7,573     | 2,206         |  | LONGIL           | Jan-20 | 5,640              | 2,824         | 2,246     | 1,109         |
|        | Feb-20 | 402              | 276           | 5,144              | 2,014         |  |        | Feb-20           | 886       | 722                | 8,517     | 5,838         |  |                  | Feb-20 | 4,795              | 1,683         | 1,678     | 1,217         |
|        | Mar-20 | 335              | 293           | 5,075              | 2,315         |  |        | Mar-20           | 944       | 634                | 6,811     | 10,029        |  |                  | Mar-20 | 5,402              | 1,429         | 1,602     | 1,683         |
|        | Apr-20 |                  |               |                    |               |  |        | Apr-20           |           |                    |           |               |  |                  | Apr-20 |                    |               |           |               |
|        | May-20 |                  |               |                    |               |  |        | May-20           |           |                    |           |               |  |                  | May-20 |                    |               |           |               |
|        | Jun-20 |                  |               |                    |               |  |        | Jun-20           |           |                    |           |               |  |                  | Jun-20 |                    |               |           |               |
|        | Jul-20 |                  |               |                    |               |  |        | Jul-20           |           |                    |           |               |  |                  | Jul-20 |                    |               |           |               |
|        | Aug-20 |                  |               |                    |               |  |        | Aug-20           |           |                    |           |               |  |                  | Aug-20 |                    |               |           |               |
|        | Sep-20 |                  |               |                    |               |  |        | Sep-20           |           |                    |           |               |  |                  | Sep-20 |                    |               |           |               |
|        | Oct-20 |                  |               |                    |               |  |        | Oct-20           |           |                    |           |               |  |                  | Oct-20 |                    |               |           |               |
|        | Nov-20 |                  |               |                    |               |  |        | Nov-20           |           |                    |           |               |  |                  | Nov-20 |                    |               |           |               |
|        | Dec-20 |                  |               |                    |               |  |        | Dec-20           |           |                    |           |               |  |                  | Dec-20 |                    |               |           |               |
| CENTRL | Jan-20 | 3,050            | 214           | 28,503             | 541           |  | MILLWD | Jan-20           | 270       | 68                 | 1,646     | 213           |  | NYISO            | Jan-20 | 29,361             | 9,580         | 59,340    | 11,849        |
|        | Feb-20 | 2,567            | 118           | 27,919             | 487           |  |        | Feb-20           | 281       | 68                 | 1,811     | 229           |  |                  | Feb-20 | 30,434             | 6,838         | 60,334    | 14,811        |
|        | Mar-20 | 2,340            | 113           | 17,986             | 481           |  |        | Mar-20           | 494       | 19                 | 1,844     | 174           |  |                  | Mar-20 | 26,077             | 6,087         | 47,704    | 20,700        |
|        | Apr-20 |                  |               |                    |               |  |        | Apr-20           |           |                    |           |               |  |                  | Apr-20 |                    |               |           |               |
|        | May-20 |                  |               |                    |               |  |        | May-20           |           |                    |           |               |  |                  | May-20 |                    |               |           |               |
|        | Jun-20 |                  |               |                    |               |  |        | Jun-20           |           |                    |           |               |  |                  | Jun-20 |                    |               |           |               |
|        | Jul-20 |                  |               |                    |               |  |        | Jul-20           |           |                    |           |               |  |                  | Jul-20 |                    |               |           |               |
|        | Aug-20 |                  |               |                    |               |  |        | Aug-20           |           |                    |           |               |  |                  | Aug-20 |                    |               |           |               |
|        | Sep-20 |                  |               |                    |               |  |        | Sep-20           |           |                    |           |               |  |                  | Sep-20 |                    |               |           |               |
|        | Oct-20 |                  |               |                    |               |  |        | Oct-20           |           |                    |           |               |  |                  | Oct-20 |                    |               |           |               |
|        | Nov-20 |                  |               |                    |               |  |        | Nov-20           |           |                    |           |               |  |                  | Nov-20 |                    |               |           |               |
|        | Dec-20 |                  |               |                    |               |  |        | Dec-20           |           |                    |           |               |  |                  | Dec-20 |                    |               |           |               |

# **NYISO Multi Hour Block Transactions Monthly Total MWh**

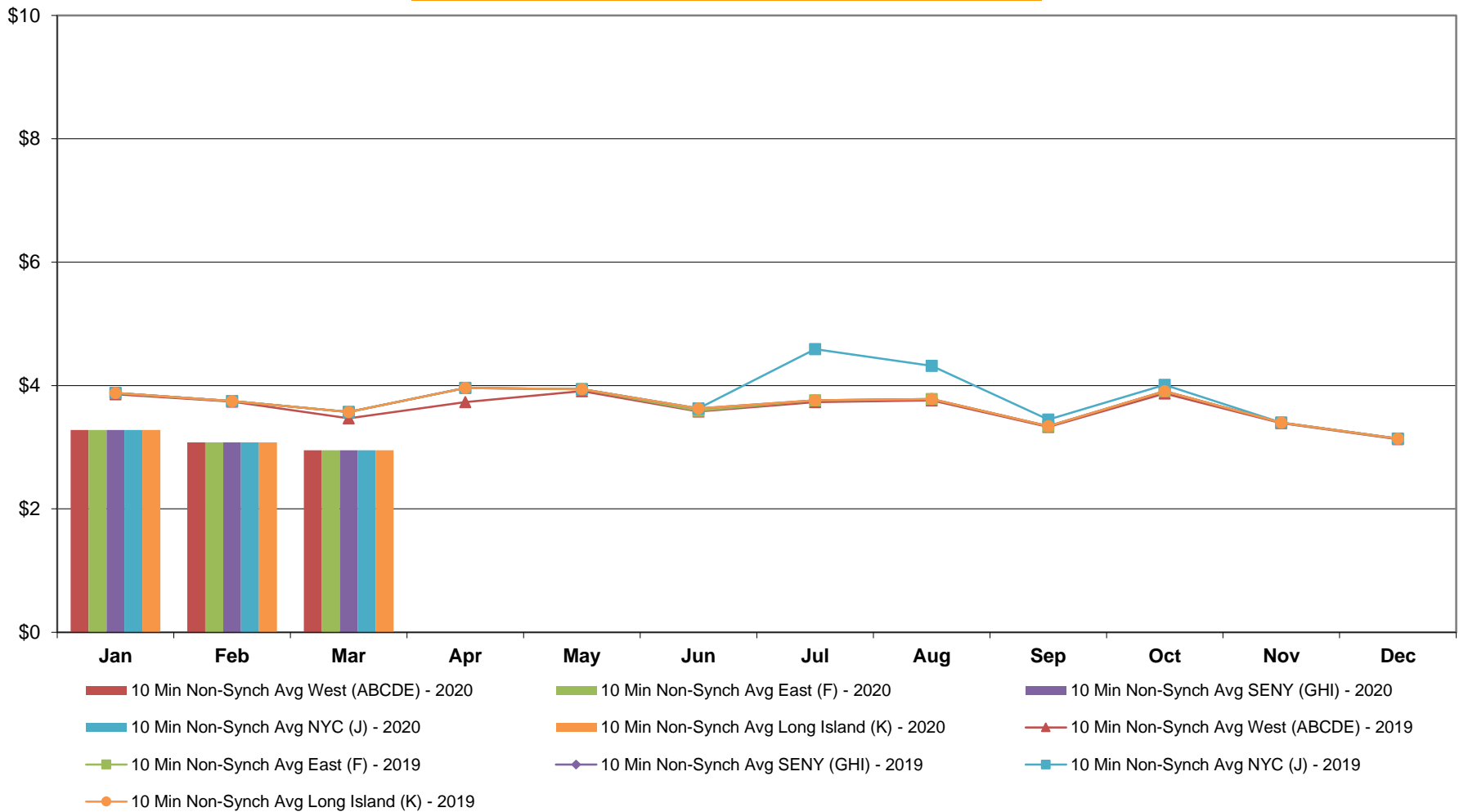




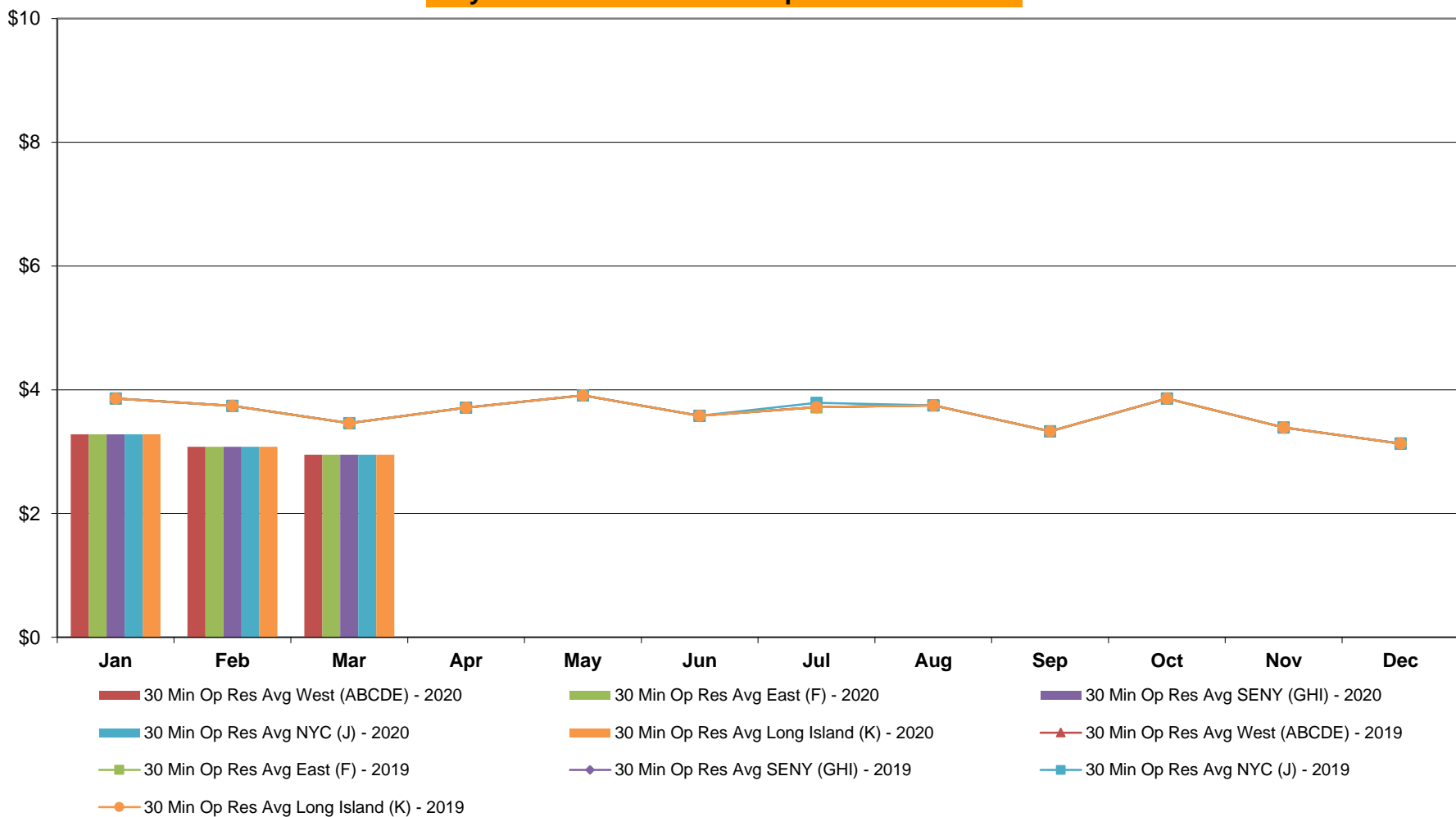
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 10 Min Spin 2019 - 2020**



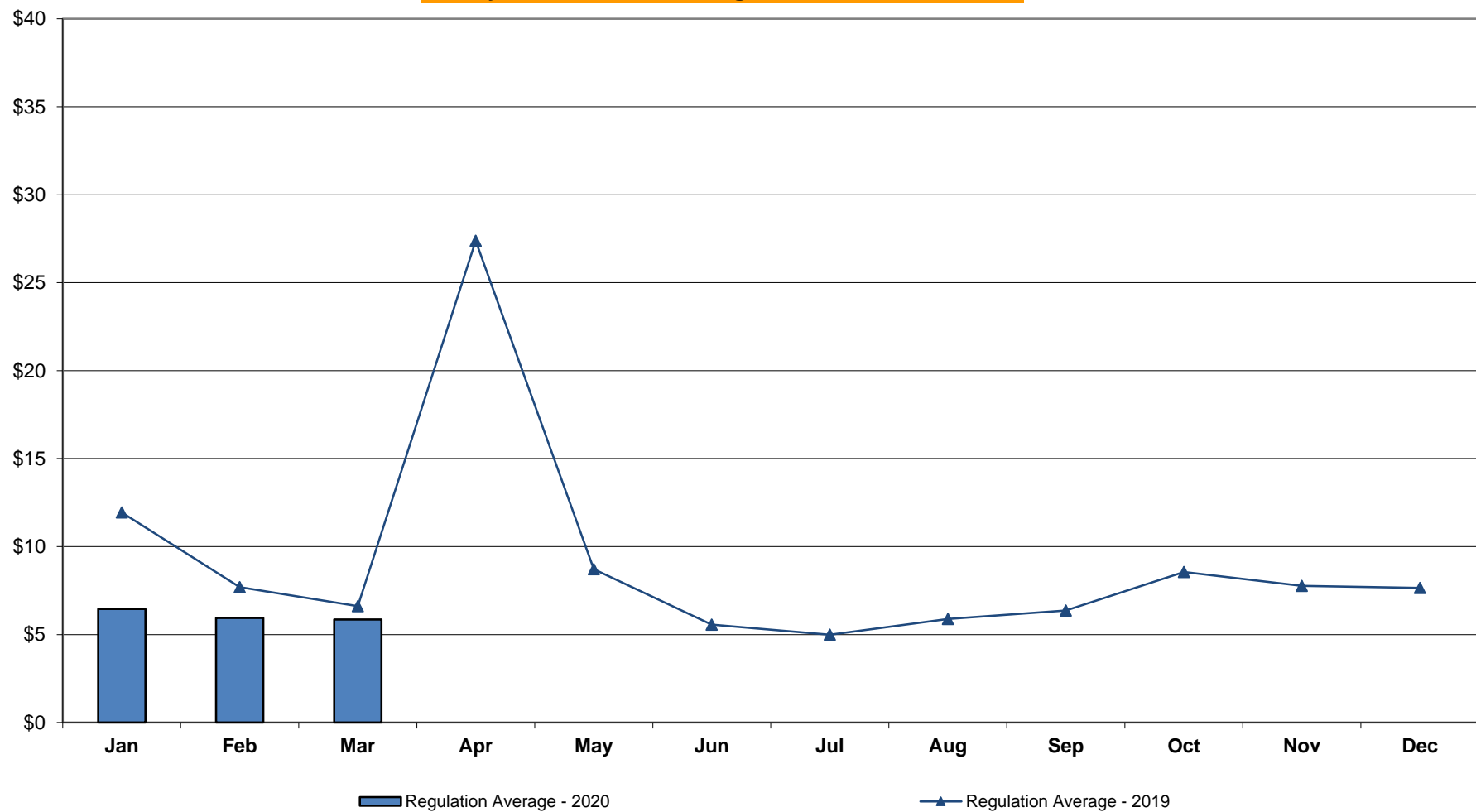
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 10 Min Non-Synch 2019 - 2020**



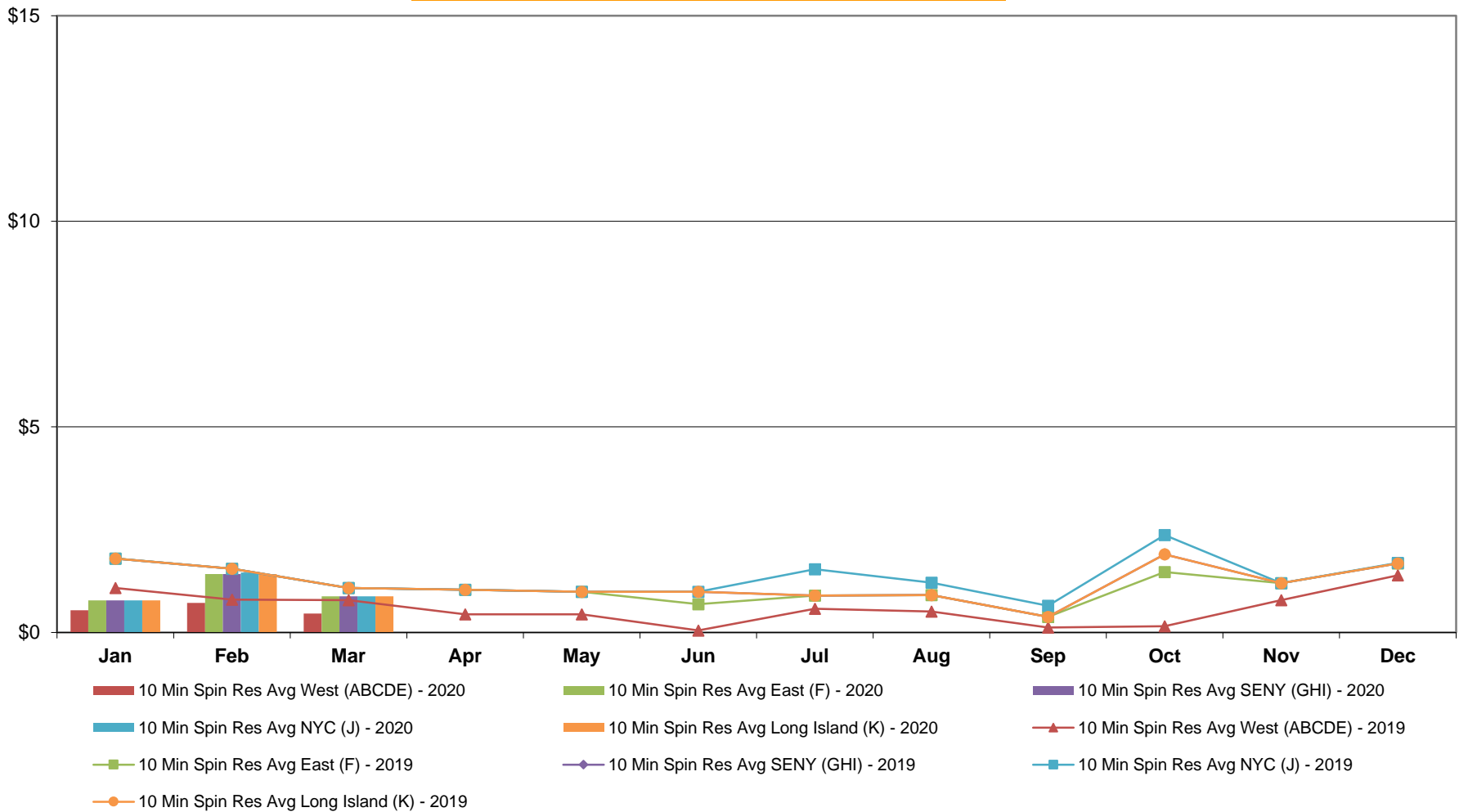
# **NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 30 Min Op Res 2019 - 2020**



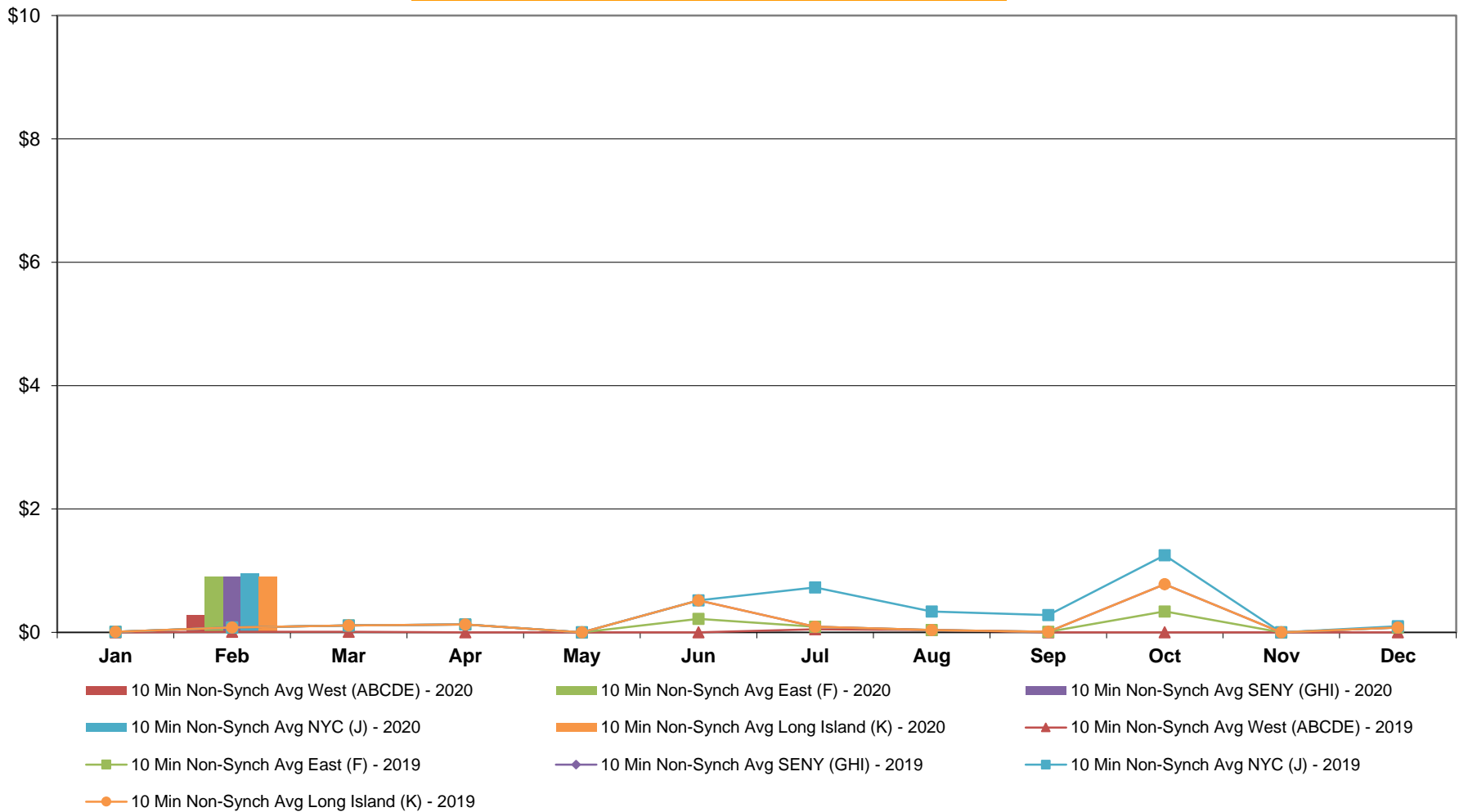
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - Regulation 2019 - 2020**



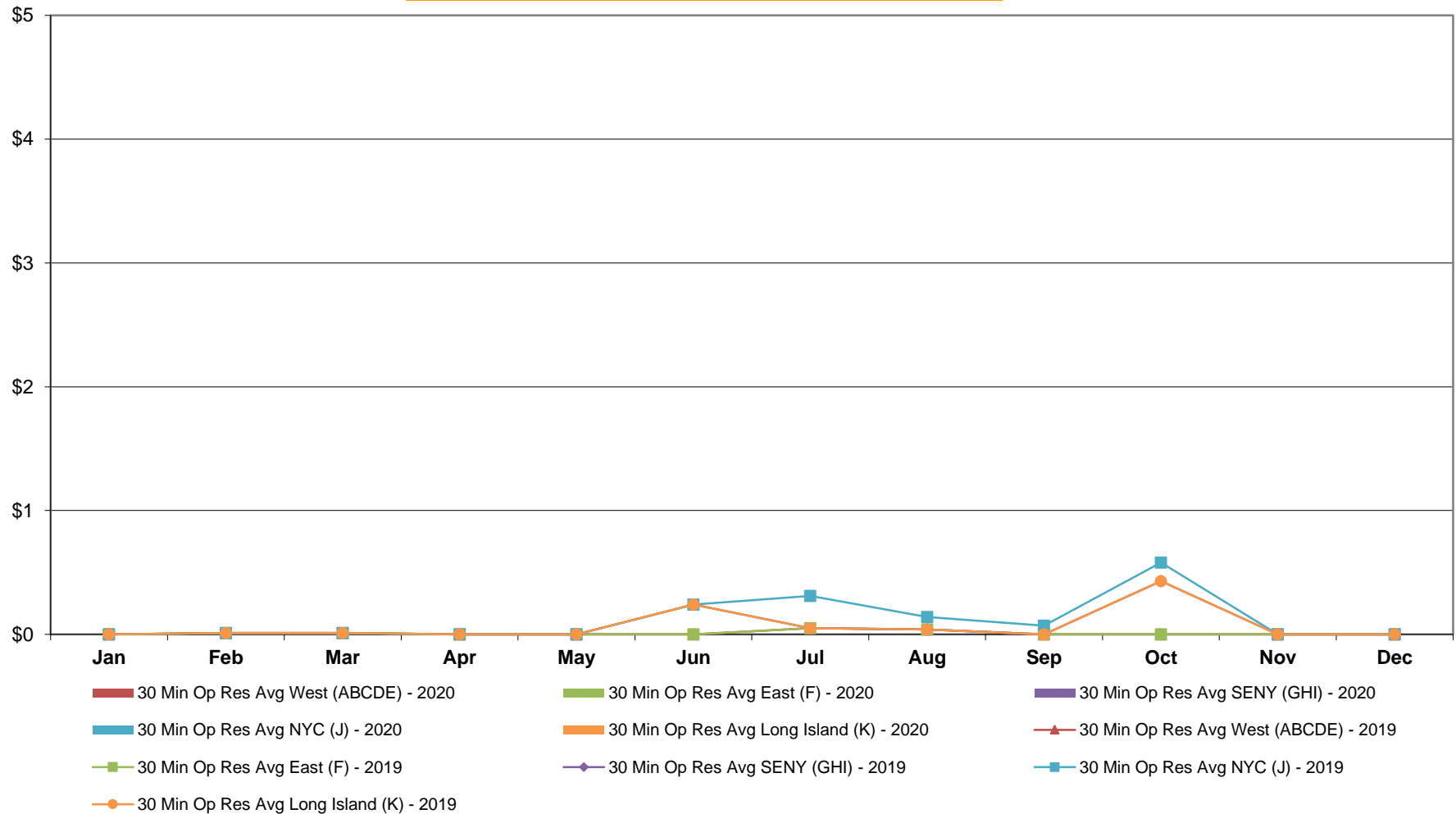
# **NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Spin 2019 - 2020**

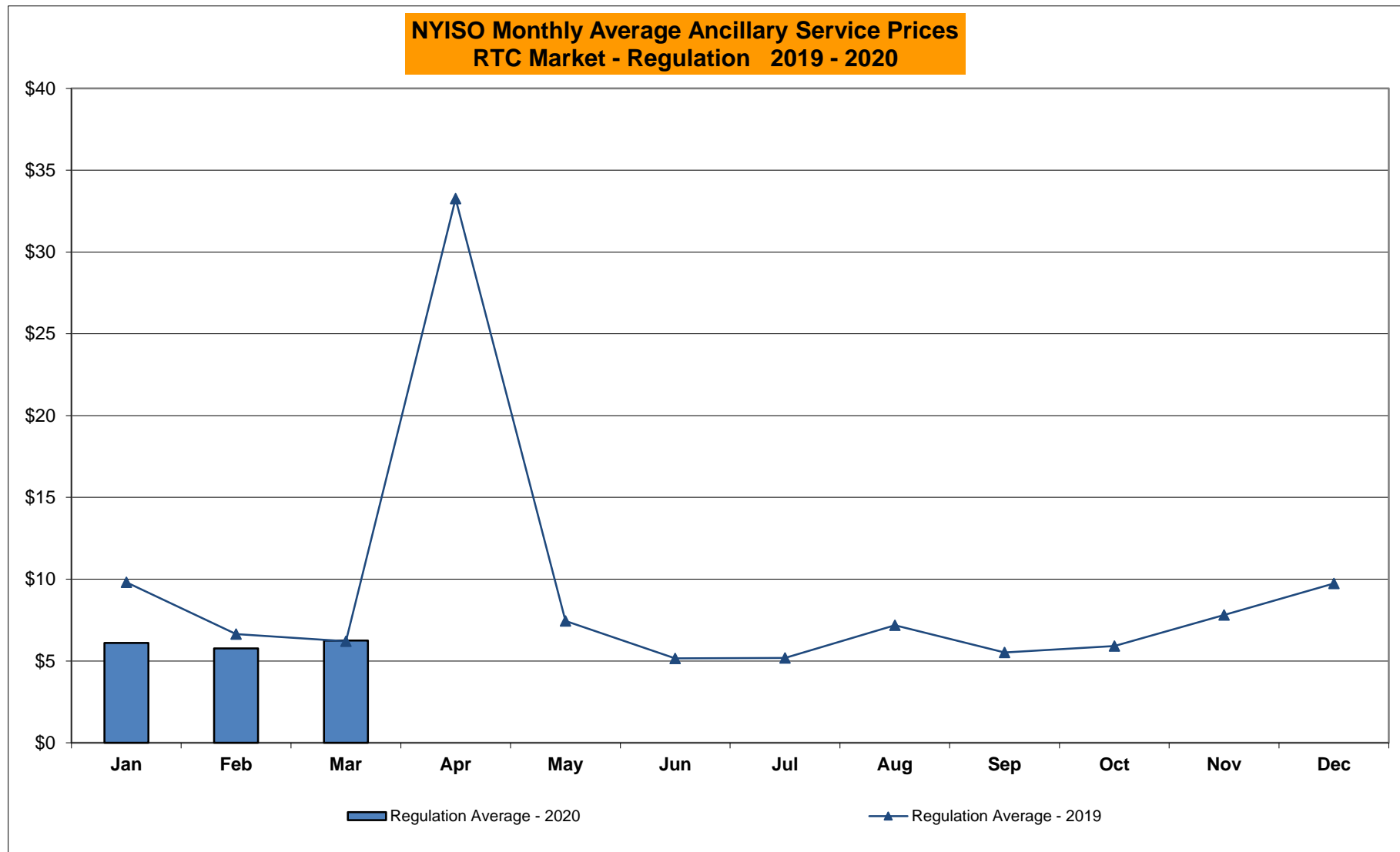


**NYISO Monthly Average Ancillary Service Prices  
RTC Market - 10 Min Non-Synch 2019 - 2020**



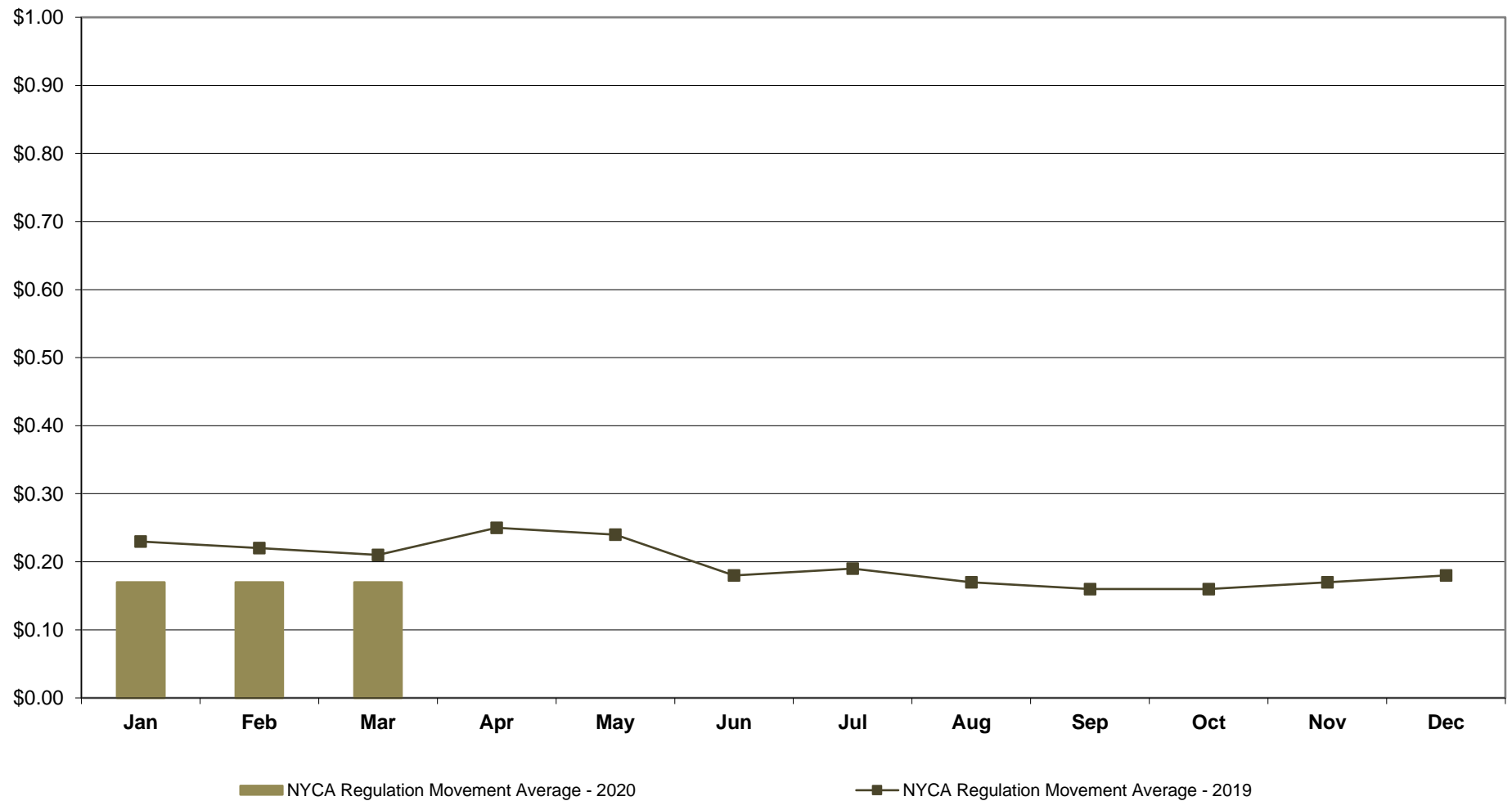
# **NYISO Monthly Average Ancillary Service Prices RTC Market - 30 Min Op Res 2019 - 2020**



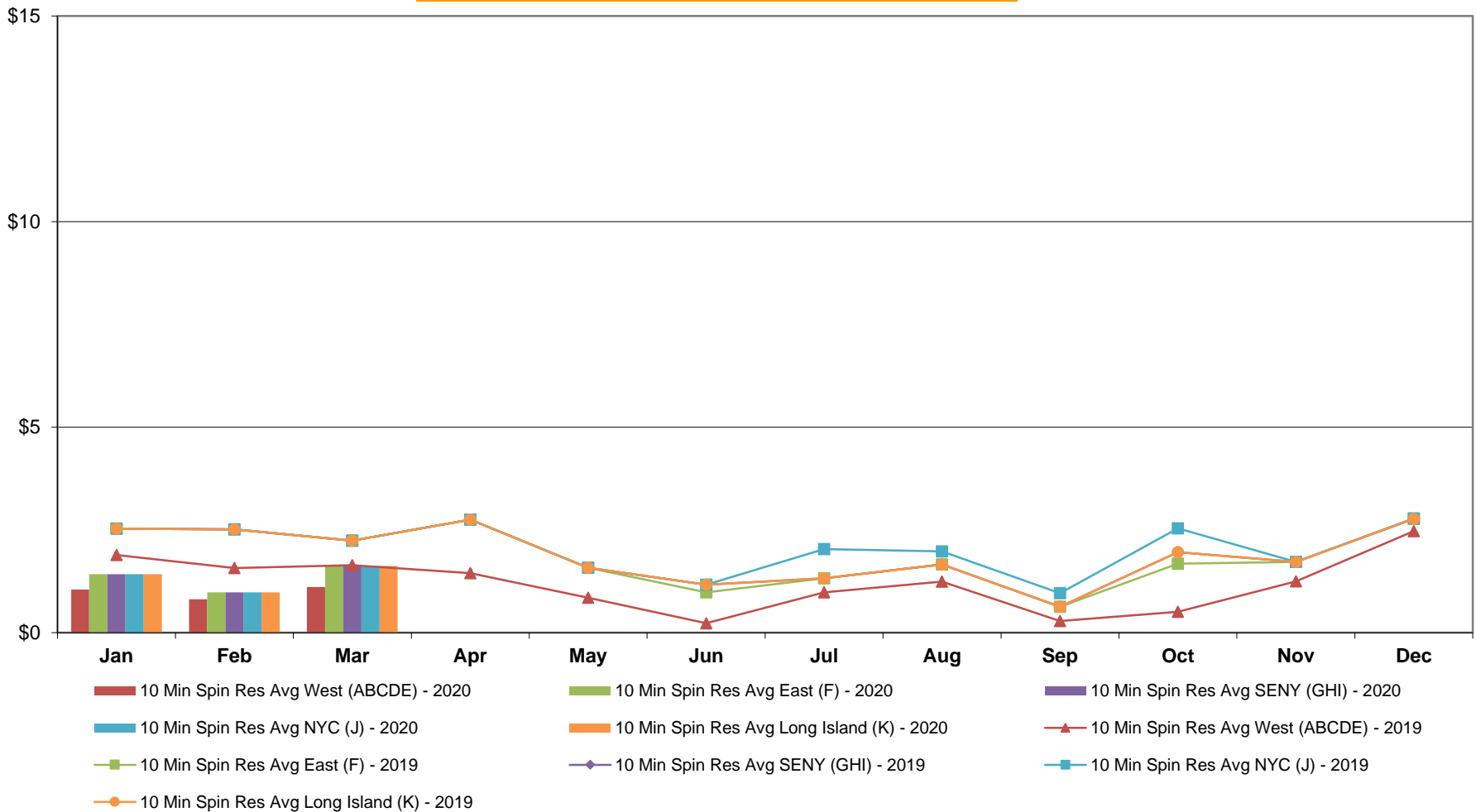




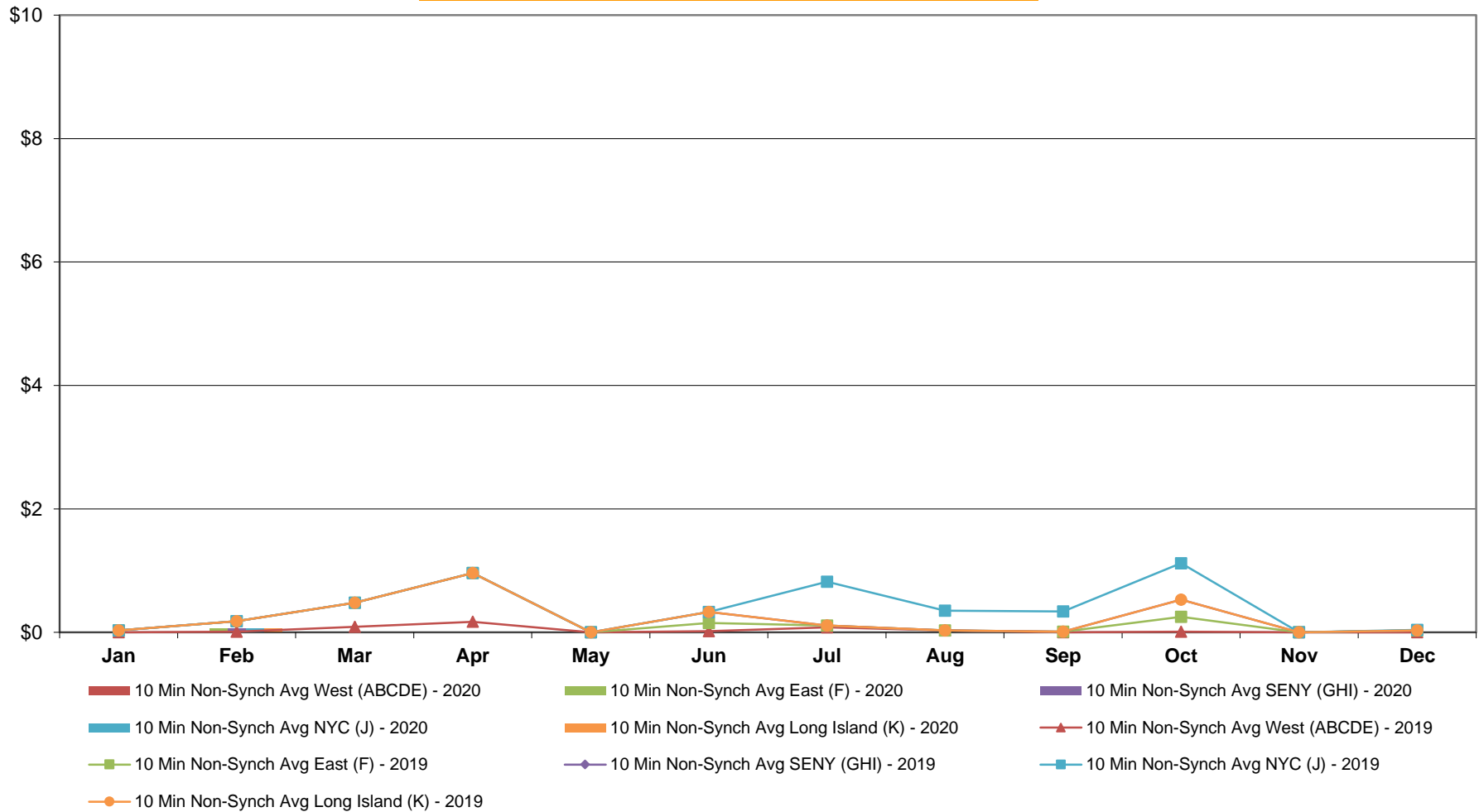
# **NYISO Monthly Average Ancillary Service Prices RTC Market - Regulation Movement 2019 - 2020**



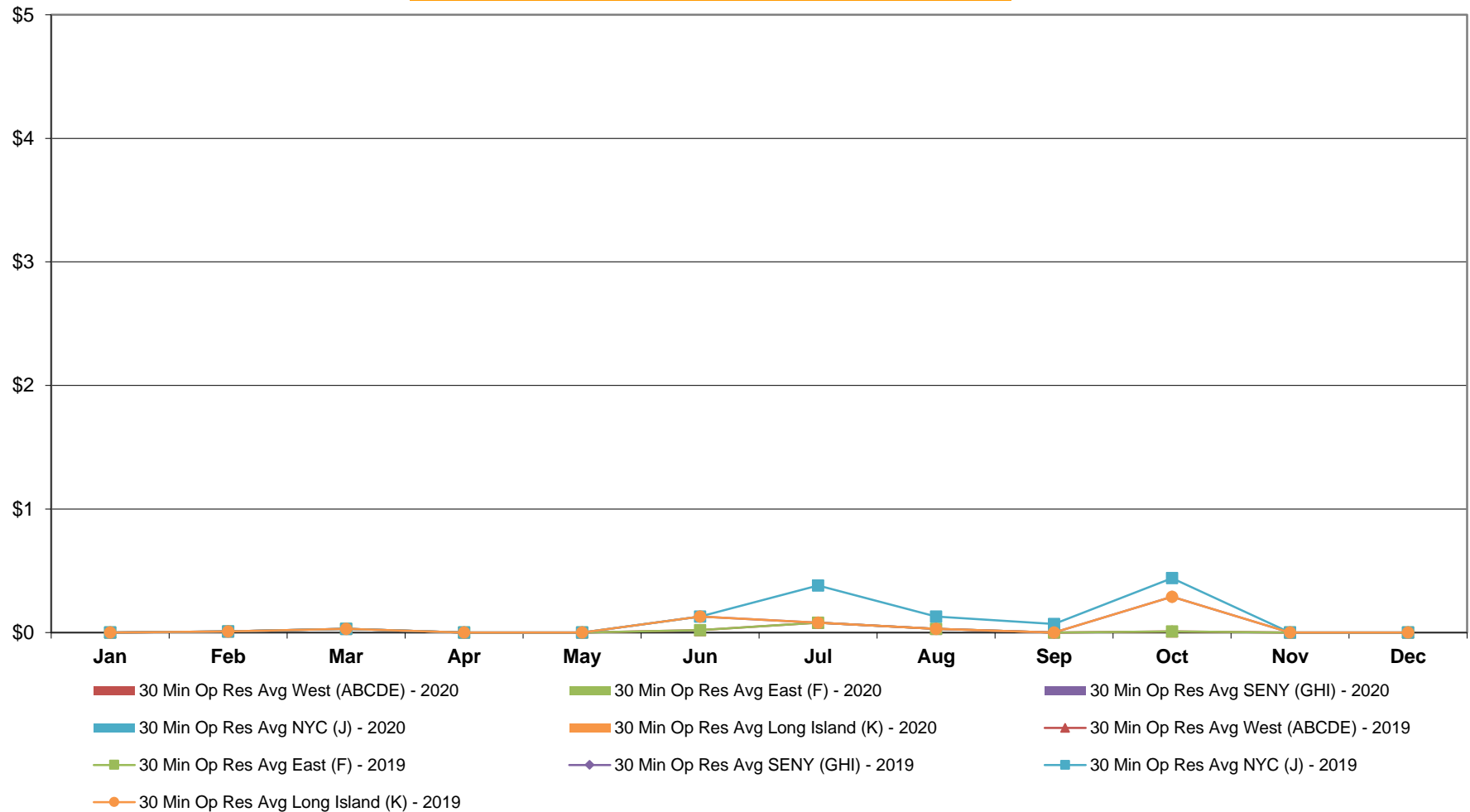
**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - 10 Min Spin 2019 - 2020**



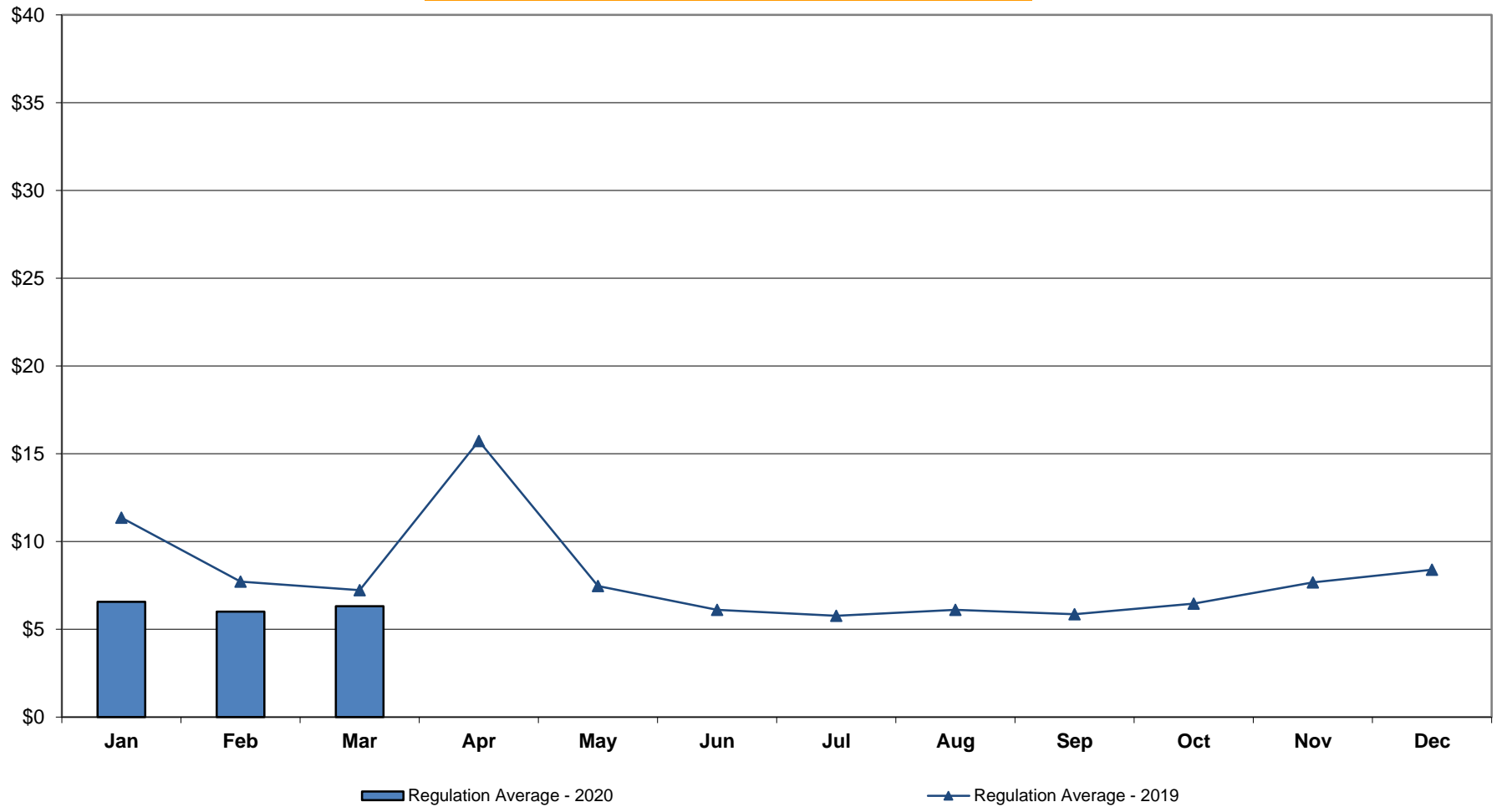
# **NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Non-Synch 2019 - 2020**



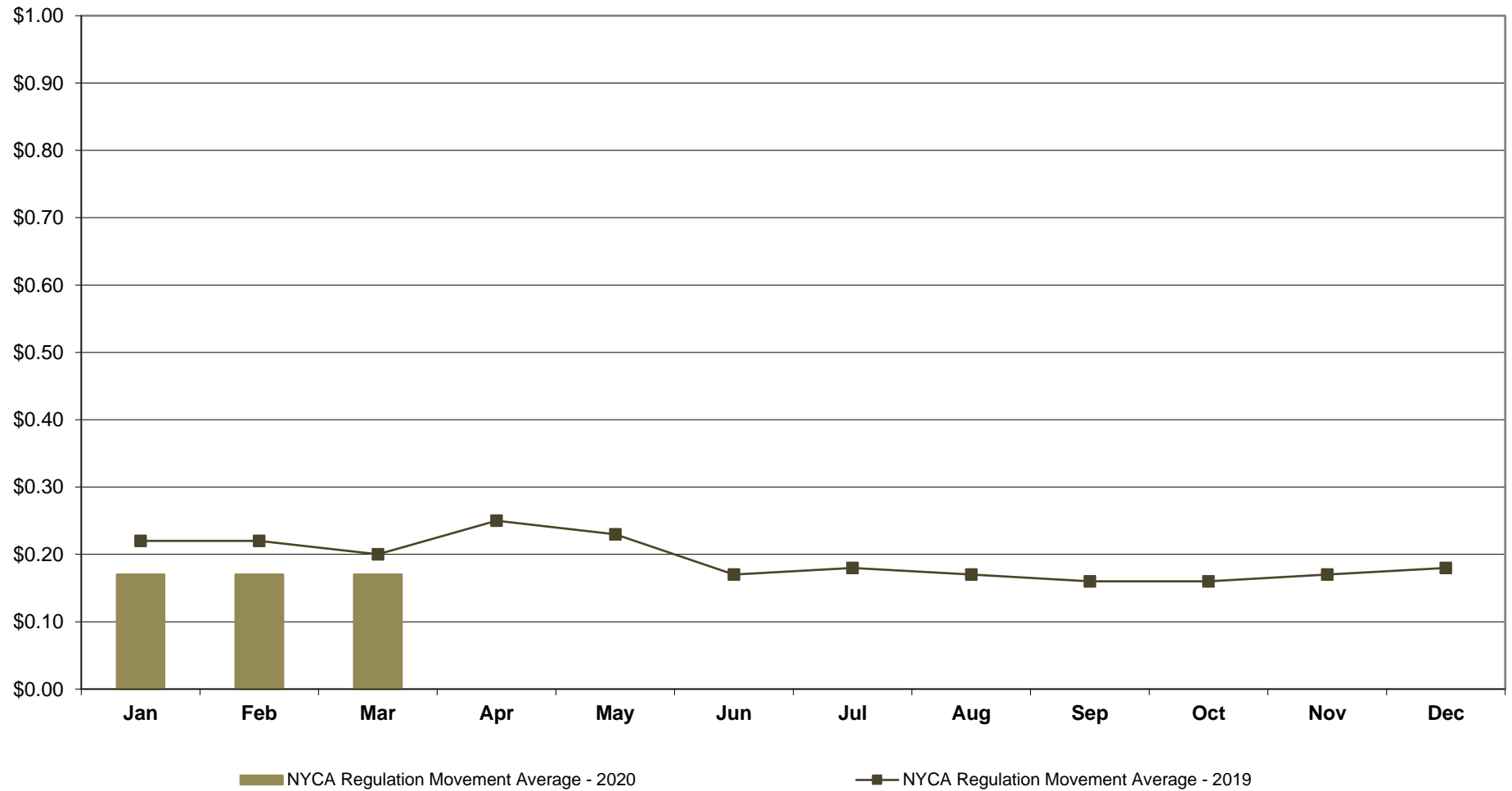
**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - 30 Min Op Res 2019 - 2020**



**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - Regulation 2019 - 2020**



# **NYISO Monthly Average Ancillary Service Prices Real Time Market - Regulation Movement 2019 - 2020**



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

| <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         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin NYC (J)              | 3.60           | 3.23            | 3.55         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin SENY (GHI)           | 3.60           | 3.23            | 3.55         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East (F)             | 3.60           | 3.23            | 3.55         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin West (ABCDE)         | 3.57           | 3.22            | 3.43         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch Long Island (K) | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch NYC (J)         | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch SENY (GHI)      | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch East (F)        | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch West (ABCDE)    | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min Long Island (K)           | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min NYC (J)                   | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min SENY (GHI)                | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min East (F)                  | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min West (ABCDE)              | 3.28           | 3.08            | 2.95         |              |            |             |             |               |                  |                |                 |                 |
| Regulation                       | 6.46           | 5.94            | 5.86         |              |            |             |             |               |                  |                |                 |                 |
| <b><u>2019</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)      | 5.47           | 5.47            | 4.61         | 4.46         | 4.25       | 3.90        | 4.03        | 4.19          | 3.86             | 4.59           | 3.79            | 3.55            |
| 10 Min Spin NYC (J)              | 5.47           | 5.47            | 4.61         | 4.46         | 4.25       | 3.90        | 4.86        | 4.73          | 3.97             | 4.69           | 3.79            | 3.55            |
| 10 Min Spin SENY (GHI)           | 5.47           | 4.17            | 4.61         | 4.46         | 4.25       | 3.90        | 4.03        | 4.19          | 3.86             | 4.59           | 3.79            | 3.55            |
| 10 Min Spin East (F)             | 5.47           | 4.17            | 4.61         | 4.46         | 4.25       | 3.86        | 4.03        | 4.19          | 3.86             | 4.59           | 3.79            | 3.55            |
| 10 Min Spin West (ABCDE)         | 4.56           | 3.94            | 4.30         | 4.01         | 4.09       | 3.77        | 3.89        | 4.00          | 3.72             | 4.24           | 3.65            | 3.47            |
| 10 Min Non Synch Long Island (K) | 3.88           | 3.88            | 3.57         | 3.96         | 3.94       | 3.63        | 3.76        | 3.78          | 3.34             | 3.91           | 3.40            | 3.14            |
| 10 Min Non Synch NYC (J)         | 3.88           | 3.88            | 3.57         | 3.96         | 3.94       | 3.63        | 4.59        | 4.32          | 3.45             | 4.01           | 3.40            | 3.14            |
| 10 Min Non Synch SENY (GHI)      | 3.88           | 3.75            | 3.57         | 3.96         | 3.94       | 3.63        | 3.76        | 3.78          | 3.34             | 3.91           | 3.40            | 3.14            |
| 10 Min Non Synch East (F)        | 3.88           | 3.75            | 3.57         | 3.96         | 3.94       | 3.59        | 3.76        | 3.78          | 3.34             | 3.91           | 3.40            | 3.14            |
| 10 Min Non Synch West (ABCDE)    | 3.86           | 3.74            | 3.47         | 3.73         | 3.91       | 3.58        | 3.73        | 3.76          | 3.33             | 3.87           | 3.39            | 3.13            |
| 30 Min Long Island (K)           | 3.86           | 3.86            | 3.46         | 3.71         | 3.91       | 3.58        | 3.72        | 3.75          | 3.33             | 3.86           | 3.39            | 3.13            |
| 30 Min NYC (J)                   | 3.86           | 3.86            | 3.46         | 3.71         | 3.91       | 3.58        | 3.79        | 3.75          | 3.33             | 3.86           | 3.39            | 3.13            |
| 30 Min SENY (GHI)                | 3.86           | 3.74            | 3.46         | 3.71         | 3.91       | 3.58        | 3.72        | 3.75          | 3.33             | 3.86           | 3.39            | 3.13            |
| 30 Min East (F)                  | 3.86           | 3.74            | 3.46         | 3.71         | 3.91       | 3.58        | 3.72        | 3.75          | 3.33             | 3.86           | 3.39            | 3.13            |
| 30 Min West (ABCDE)              | 3.86           | 3.74            | 3.46         | 3.71         | 3.91       | 3.58        | 3.72        | 3.75          | 3.33             | 3.86           | 3.39            | 3.13            |
| Regulation                       | 11.94          | 7.69            | 6.62         | 27.38        | 8.71       | 5.57        | 4.99        | 5.89          | 6.36             | 8.55           | 7.77            | 7.65            |

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

| <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         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin NYC (J)              | 0.78           | 1.46            | 0.88         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin SENY (GHI)           | 0.78           | 1.42            | 0.88         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East (F)             | 0.78           | 1.42            | 0.88         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin West (ABCDE)         | 0.54           | 0.72            | 0.46         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch Long Island (K) | 0.00           | 0.91            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch NYC (J)         | 0.00           | 0.95            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch SENY (GHI)      | 0.00           | 0.91            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch East (F)        | 0.00           | 0.91            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch West (ABCDE)    | 0.00           | 0.28            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min Long Island (K)           | 0.00           | 0.01            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min NYC (J)                   | 0.00           | 0.01            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min SENY (GHI)                | 0.00           | 0.01            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min East (F)                  | 0.00           | 0.01            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min West (ABCDE)              | 0.00           | 0.01            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| Regulation                       | 6.11           | 5.77            | 6.25         |              |            |             |             |               |                  |                |                 |                 |
| NYCA Regulation Movement         | 0.17           | 0.17            | 0.17         |              |            |             |             |               |                  |                |                 |                 |
| <b><u>2019</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)      | 1.80           | 1.80            | 1.08         | 1.04         | 0.99       | 0.99        | 0.90        | 0.91          | 0.38             | 1.90           | 1.20            | 1.68            |
| 10 Min Spin NYC (J)              | 1.80           | 1.80            | 1.08         | 1.04         | 0.99       | 0.99        | 1.54        | 1.21          | 0.65             | 2.37           | 1.20            | 1.69            |
| 10 Min Spin SENY (GHI)           | 1.80           | 1.55            | 1.08         | 1.04         | 0.99       | 0.99        | 0.90        | 0.91          | 0.38             | 1.90           | 1.20            | 1.68            |
| 10 Min Spin East (F)             | 1.80           | 1.55            | 1.08         | 1.04         | 0.99       | 0.69        | 0.90        | 0.91          | 0.38             | 1.47           | 1.20            | 1.68            |
| 10 Min Spin West (ABCDE)         | 1.08           | 0.80            | 0.79         | 0.44         | 0.44       | 0.05        | 0.58        | 0.51          | 0.12             | 0.15           | 0.79            | 1.39            |
| 10 Min Non Synch Long Island (K) | 0.01           | 0.01            | 0.11         | 0.13         | 0.00       | 0.52        | 0.09        | 0.04          | 0.01             | 0.78           | 0.00            | 0.08            |
| 10 Min Non Synch NYC (J)         | 0.01           | 0.01            | 0.11         | 0.13         | 0.00       | 0.52        | 0.73        | 0.34          | 0.28             | 1.25           | 0.00            | 0.10            |
| 10 Min Non Synch SENY (GHI)      | 0.01           | 0.08            | 0.11         | 0.13         | 0.00       | 0.52        | 0.09        | 0.04          | 0.01             | 0.78           | 0.00            | 0.08            |
| 10 Min Non Synch East (F)        | 0.01           | 0.08            | 0.11         | 0.13         | 0.00       | 0.22        | 0.09        | 0.04          | 0.01             | 0.34           | 0.00            | 0.08            |
| 10 Min Non Synch West (ABCDE)    | 0.00           | 0.01            | 0.01         | 0.00         | 0.00       | 0.00        | 0.05        | 0.04          | 0.00             | 0.00           | 0.00            | 0.00            |
| 30 Min Long Island (K)           | 0.00           | 0.00            | 0.01         | 0.00         | 0.00       | 0.24        | 0.05        | 0.04          | 0.00             | 0.43           | 0.00            | 0.00            |
| 30 Min NYC (J)                   | 0.00           | 0.00            | 0.01         | 0.00         | 0.00       | 0.24        | 0.31        | 0.14          | 0.07             | 0.58           | 0.00            | 0.00            |
| 30 Min SENY (GHI)                | 0.00           | 0.01            | 0.01         | 0.00         | 0.00       | 0.24        | 0.05        | 0.04          | 0.00             | 0.43           | 0.00            | 0.00            |
| 30 Min East (F)                  | 0.00           | 0.01            | 0.01         | 0.00         | 0.00       | 0.00        | 0.05        | 0.04          | 0.00             | 0.00           | 0.00            | 0.00            |
| 30 Min West (ABCDE)              | 0.00           | 0.01            | 0.01         | 0.00         | 0.00       | 0.00        | 0.05        | 0.04          | 0.00             | 0.00           | 0.00            | 0.00            |
| Regulation                       | 9.81           | 6.64            | 6.21         | 33.26        | 7.45       | 5.16        | 5.19        | 7.19          | 5.52             | 5.91           | 7.81            | 9.74            |
| NYCA Regulation Movement         | 0.23           | 0.22            | 0.21         | 0.25         | 0.24       | 0.18        | 0.19        | 0.17          | 0.16             | 0.16           | 0.17            | 0.18            |

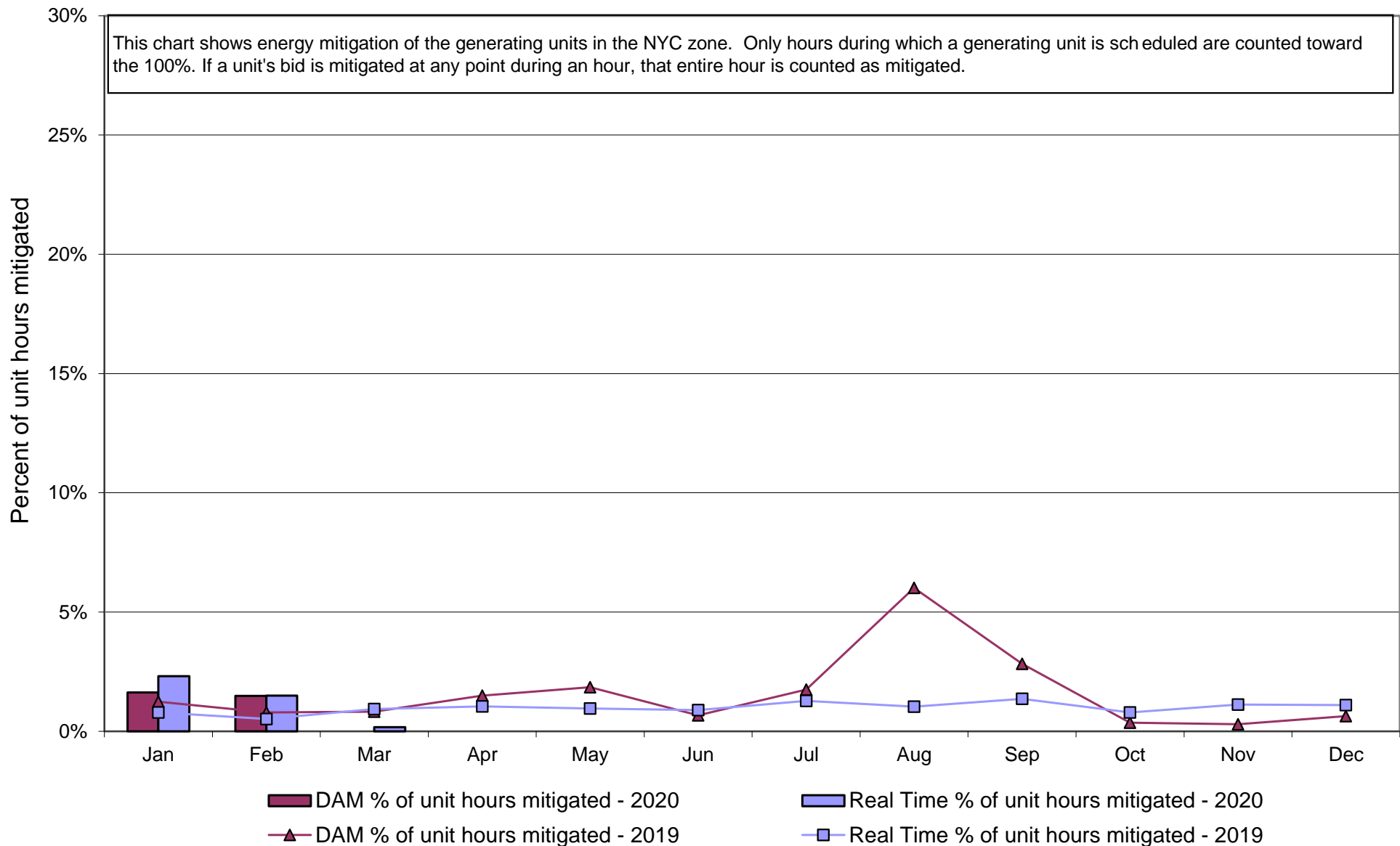


## **NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT**

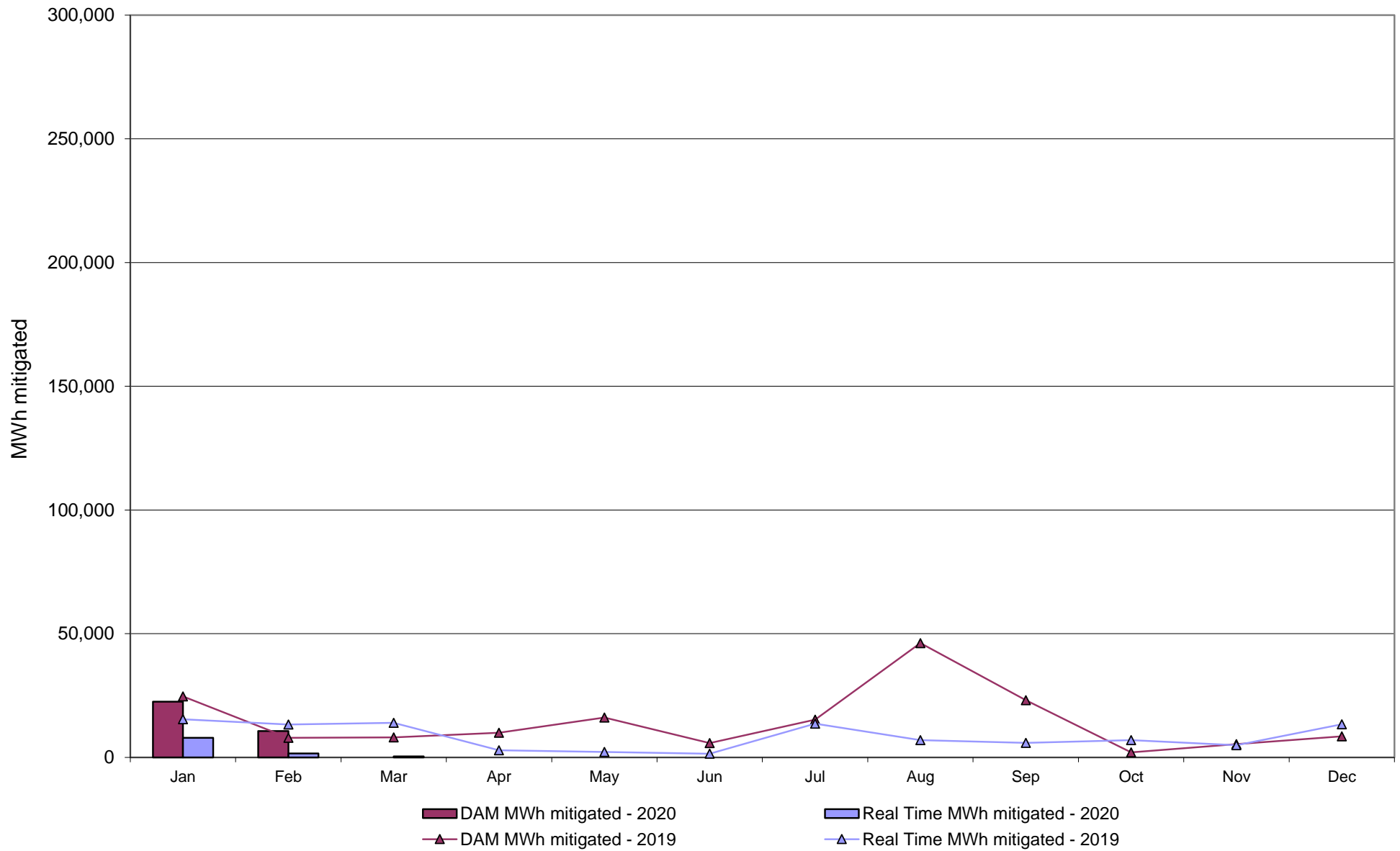
| <b><u>2020</u></b>               | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <b><u>Real Time Market</u></b>   |                |                 |              |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin Long Island (K)      | 1.42           | 0.98            | 1.62         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin NYC (J)              | 1.42           | 0.98            | 1.62         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin SENY (GHI)           | 1.42           | 0.98            | 1.62         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin East (F)             | 1.42           | 0.98            | 1.62         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Spin West (ABCDE)         | 1.05           | 0.81            | 1.11         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch Long Island (K) | 0.00           | 0.06            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch NYC (J)         | 0.00           | 0.06            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch SENY (GHI)      | 0.00           | 0.06            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch East (F)        | 0.00           | 0.06            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 10 Min Non Synch West (ABCDE)    | 0.00           | 0.00            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min Long Island (K)           | 0.00           | 0.00            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min NYC (J)                   | 0.00           | 0.00            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min SENY (GHI)                | 0.00           | 0.00            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min East (F)                  | 0.00           | 0.00            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| 30 Min West (ABCDE)              | 0.00           | 0.00            | 0.00         |              |            |             |             |               |                  |                |                 |                 |
| Regulation                       | 6.57           | 6.00            | 6.32         |              |            |             |             |               |                  |                |                 |                 |
| NYCA Regulation Movement         | 0.17           | 0.17            | 0.17         |              |            |             |             |               |                  |                |                 |                 |
| <b><u>2019</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)      | 2.53           | 2.53            | 2.24         | 2.75         | 1.58       | 1.17        | 1.32        | 1.66          | 0.63             | 1.96           | 1.72            | 2.77            |
| 10 Min Spin NYC (J)              | 2.53           | 2.53            | 2.24         | 2.75         | 1.58       | 1.17        | 2.03        | 1.98          | 0.96             | 2.54           | 1.72            | 2.78            |
| 10 Min Spin SENY (GHI)           | 2.53           | 2.51            | 2.24         | 2.75         | 1.58       | 1.17        | 1.32        | 1.66          | 0.63             | 1.96           | 1.72            | 2.77            |
| 10 Min Spin East (F)             | 2.53           | 2.51            | 2.24         | 2.75         | 1.58       | 0.98        | 1.32        | 1.66          | 0.63             | 1.68           | 1.72            | 2.77            |
| 10 Min Spin West (ABCDE)         | 1.89           | 1.57            | 1.64         | 1.45         | 0.85       | 0.23        | 0.98        | 1.24          | 0.28             | 0.51           | 1.25            | 2.47            |
| 10 Min Non Synch Long Island (K) | 0.03           | 0.03            | 0.48         | 0.96         | 0.00       | 0.33        | 0.11        | 0.03          | 0.01             | 0.53           | 0.00            | 0.03            |
| 10 Min Non Synch NYC (J)         | 0.03           | 0.03            | 0.48         | 0.96         | 0.00       | 0.33        | 0.82        | 0.35          | 0.34             | 1.12           | 0.00            | 0.04            |
| 10 Min Non Synch SENY (GHI)      | 0.03           | 0.18            | 0.48         | 0.96         | 0.00       | 0.33        | 0.11        | 0.03          | 0.01             | 0.53           | 0.00            | 0.03            |
| 10 Min Non Synch East (F)        | 0.03           | 0.18            | 0.48         | 0.96         | 0.00       | 0.15        | 0.11        | 0.03          | 0.01             | 0.25           | 0.00            | 0.03            |
| 10 Min Non Synch West (ABCDE)    | 0.00           | 0.01            | 0.09         | 0.17         | 0.00       | 0.02        | 0.08        | 0.03          | 0.00             | 0.01           | 0.00            | 0.00            |
| 30 Min Long Island (K)           | 0.00           | 0.00            | 0.03         | 0.00         | 0.00       | 0.13        | 0.08        | 0.03          | 0.00             | 0.29           | 0.00            | 0.00            |
| 30 Min NYC (J)                   | 0.00           | 0.00            | 0.03         | 0.00         | 0.00       | 0.13        | 0.38        | 0.13          | 0.07             | 0.44           | 0.00            | 0.00            |
| 30 Min SENY (GHI)                | 0.00           | 0.01            | 0.03         | 0.00         | 0.00       | 0.13        | 0.08        | 0.03          | 0.00             | 0.29           | 0.00            | 0.00            |
| 30 Min East (F)                  | 0.00           | 0.01            | 0.03         | 0.00         | 0.00       | 0.02        | 0.08        | 0.03          | 0.00             | 0.01           | 0.00            | 0.00            |
| 30 Min West (ABCDE)              | 0.00           | 0.01            | 0.03         | 0.00         | 0.00       | 0.02        | 0.08        | 0.03          | 0.00             | 0.01           | 0.00            | 0.00            |
| Regulation                       | 11.36          | 7.72            | 7.23         | 15.73        | 7.47       | 6.11        | 5.77        | 6.11          | 5.86             | 6.47           | 7.67            | 8.40            |
| NYCA Regulation Movement         | 0.22           | 0.22            | 0.20         | 0.25         | 0.23       | 0.17        | 0.18        | 0.17          | 0.16             | 0.16           | 0.17            | 0.18            |

## NYISO In City Energy Mitigation - AMP (NYC Zone) 2019 - 2020

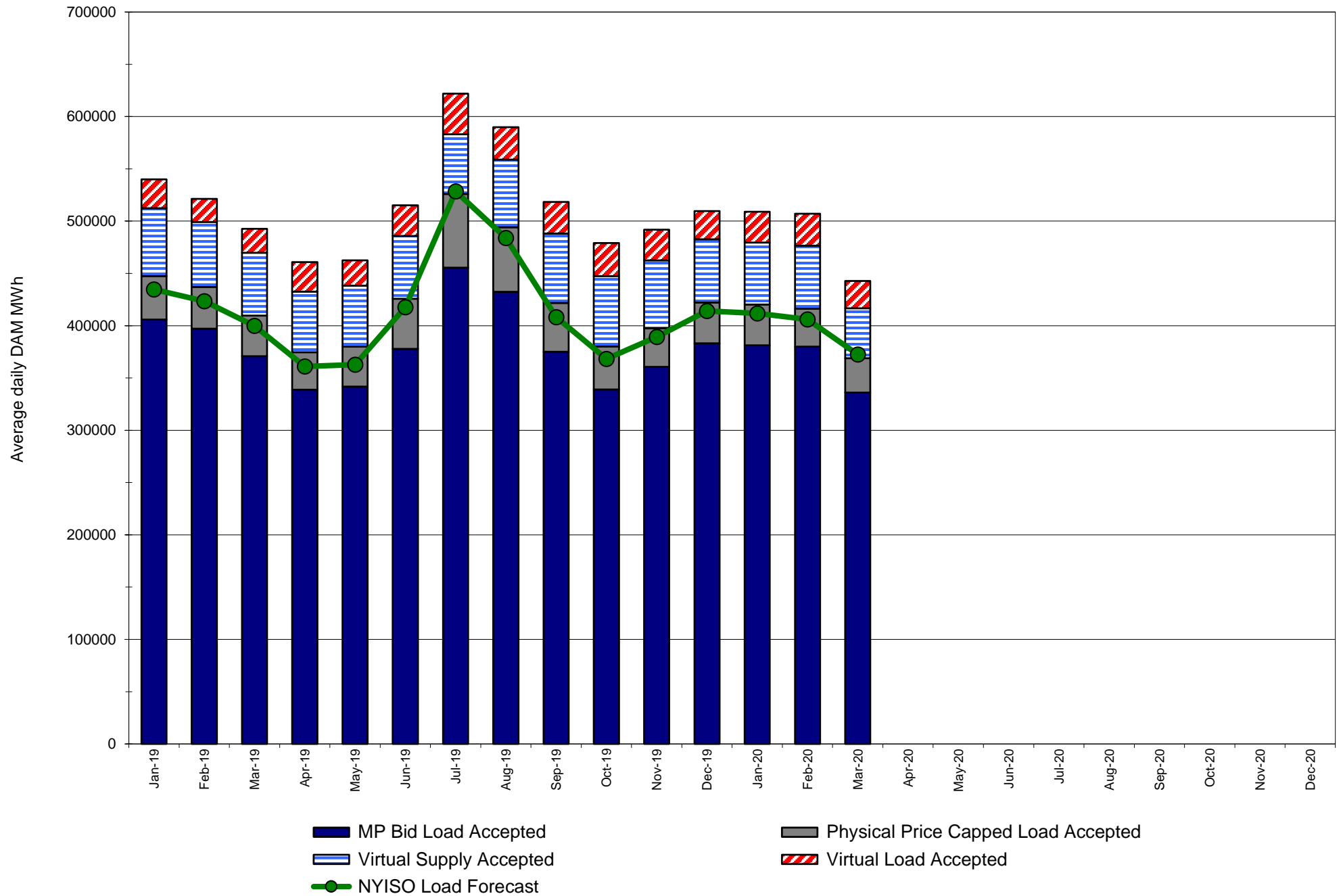
### Percentage of committed unit-hours mitigated



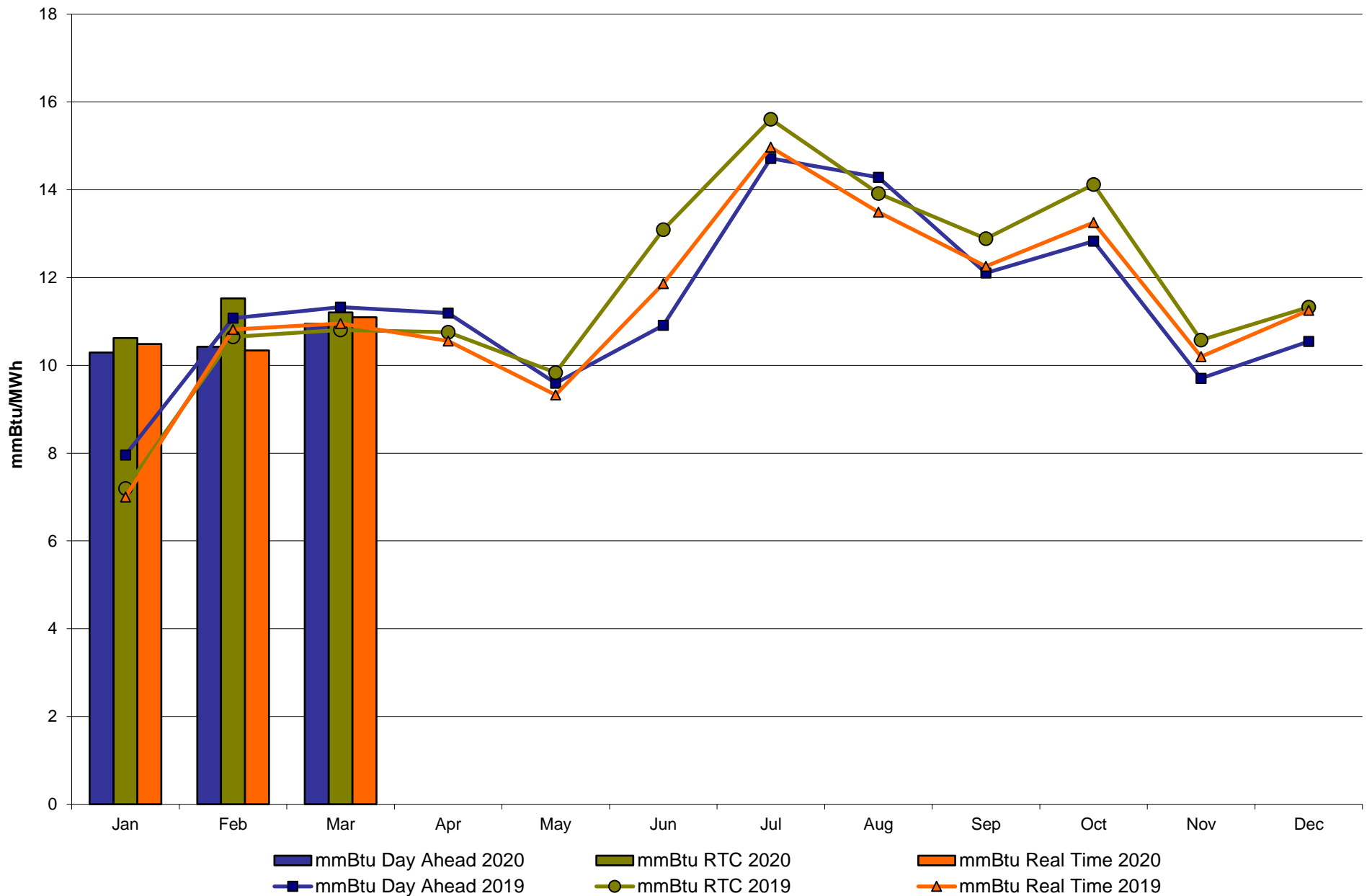
# **NYISO In City Energy Mitigation (NYC Zone) 2019 - 2020** **Monthly megawatt hours mitigated**



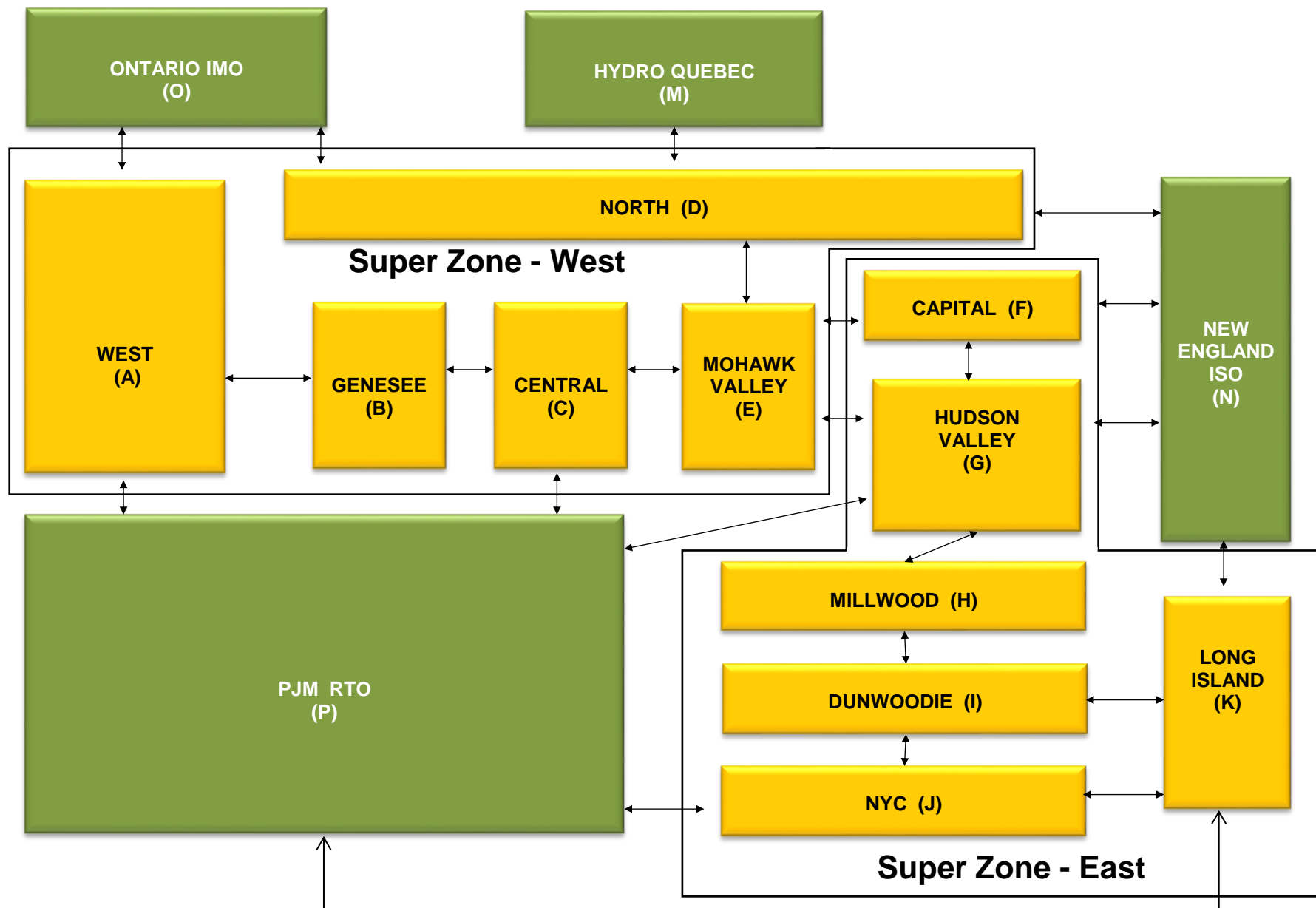
# NYISO Average Daily DAM Load Bid Summary



# Monthly Implied Heat Rate 2019-2020



# NYISO LBMP ZONES



**Billing Codes for Chart C**

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

# 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





## 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)   | Docket Number | Order Date | Order Summary   |
|-------------|---|---------------|------------|---|
| 01/30/2020  | NYISO filing of a request for tariff waiver re: credit restrictions in the definition of "Public Power Entity"  | ER20-922-000  | 04/16/2020 | Order granted tariff waiver for a period of nine months, as requested         |
| 02/13/2020  | NYISO 205 filing re: update the name of the proxy generator bus that represents the Ontario Control Area  | ER20-994-000  | 04/06/2020 | Order accepted revisions effective 04/14/2020, as requested                   |
| 02/21/2020  | NYISO 205 filing re: revisions to the ICAP demand curve annual update procedures  | ER20-1049-000 | 04/03/2020 | Order accepted revisions effective 04/22/2020, as requested                   |
| 02/27/2020  | NYISO and NYSEG Joint 205 filing re: Large Generator Interconnection Agreement (SA 2487) between NYISO, NYSEG and Baron Winds, LLC  | ER20-1100-000 | 04/02/2020 | Order accepted LGIA effective 02/12/2020, as requested                        |
| 03/04/2020  | NYISO 205 filing re: Public Policy Transmission Planning Process Development Agreement – Segment A (SA 2514) among the NYISO, LS Power Grid New York Corporation I and the New York Power Authority | ER20-1156-000 | 04/16/2020 | Order accepted PPTPP Development Agreement effective 02/03/2020, as requested |
| 03/18/2020  | NYISO compliance filing re: notice of effective date for tariff revisions implementing entitlement rules for Market-to-Market coordination  | ER19-2282-001 | 04/15/2020 | Order accepted revisions effective 04/07/2020, as requested                   |
| 03/19/2020  | NYISO filing re: request for extension of time to submit compliance tariff revisions concerning the proposed Renewable Exemption under its buyer-side market power mitigation rules                 | ER16-1404-000 | 03/25/2020 | Notice granted extension of compliance filing deadline until 04/06/2020       |

### Recently Submitted Filings

| Filing Date | Filing Summary  | Docket Number |
|-------------|---|---------------|
| 03/18/2020  | NYISO compliance filing re: notice of effective date for tariff revisions implementing entitlement rules for Market-to-Market coordination  | ER19-2282-001 |
| 03/19/2020  | NYISO filing re: request for extension of time to submit compliance tariff revisions concerning the proposed Renewable Exemption under its buyer-side market power mitigation rules | ER16-1404-000 |

|            |   |  |
|------------|---|--|
| 03/27/2020 | NYISO filing re: request for tariff waiver regarding the requirement for notarization of 2020 officer certification   | ER20-1419-000  |
| 04/01/2020 | NYISO compliance filing re: annual submittal of unreserved use and late study penalty assessments and distributions report  | OA08-109-000   |
| 04/01/2020 | NYISO filing re: request for tariff waiver of MST Section 4.4.1.2.1 concerning minimum generation bids  | ER20-1470-000  |
| 04/01/2020 | NYISO filing re: Form 715 - Annual Transmission Planning and Evaluation Report  | No docket no.  |
| 04/03/2020 | NYISO filing re: answer in response to the LSP Transmission protest of NYISO's short term reliability process filing  | ER20-1105-000  |
| 04/07/2020 | IRC filing re: motion to intervene and comment in support of NERC motion to defer implementation of reliability standards   | RM15-4-000<br>RM16-22-000<br>RM17-13-000<br>RD18-4-000 |
| 04/07/2020 | NYISO compliance filing in response to the 02/20/2020 order re: the proposed Renewable Exemption under the buyer-side capacity market power mitigation measures   | ER16-1404-002  |
| 04/09/2020 | Joint 205 NYISO and Consolidated Edison re: large generator interconnection agreement (SA 2520) between NYISO and Con Edison regarding the East River 1 generating station  | ER20-1524-000  |
| 04/09/2020 | Joint 205 NYISO and Consolidated Edison re: large generator interconnection agreement (SA 2521) between NYISO and Con Edison regarding the East River 2 generating station  | ER20-1526-000  |
| 04/15/2020 | NYISO answer to IPPNY protest re: NYISO's 03/11/2020 compliance filing and request for waiver concerning the BSM rules for special case resources   | EL16-92-002<br>ER17-996-001                            |
| 04/20/2020 | Joint NYISO and NYSEG 205 filing re: small generator interconnection agreement (SA 2526) among the NYISO, NYSEG, and Duke Energy Renewables Solar, LLC concerning the Niagara Solar facility                            | ER20-1602-000  |
| 04/20/2020 | Joint NYISO and NYSEG 205 filing re: small generator interconnection agreement (SA 2527) among the NYISO, NYSEG, and Duke Energy Renewables Solar, LLC concerning the Scipio Solar facility                             | ER20-1603-000  |
| 04/21/2020 | NYISO filing of a motion to intervene in the US Court of Appeals for the District of Columbia re: the request for review of FERC orders by the New Jersey Board of Public Utilities in Docket Nos. EL18-54-000 and -001 | Case No.<br>20-1079                                    |
| 04/21/2020 | NYISO filing re: first quarter 2020 Electric Quarterly Report   | ER02-2001-000  |
| 04/21/2020 | NYISO filing re: annual report of total MW-hours of transmission service interstate commerce for 2019 in compliance with FERC Reporting Requirement No. 582   | No docket no.  |