Market Operations Report

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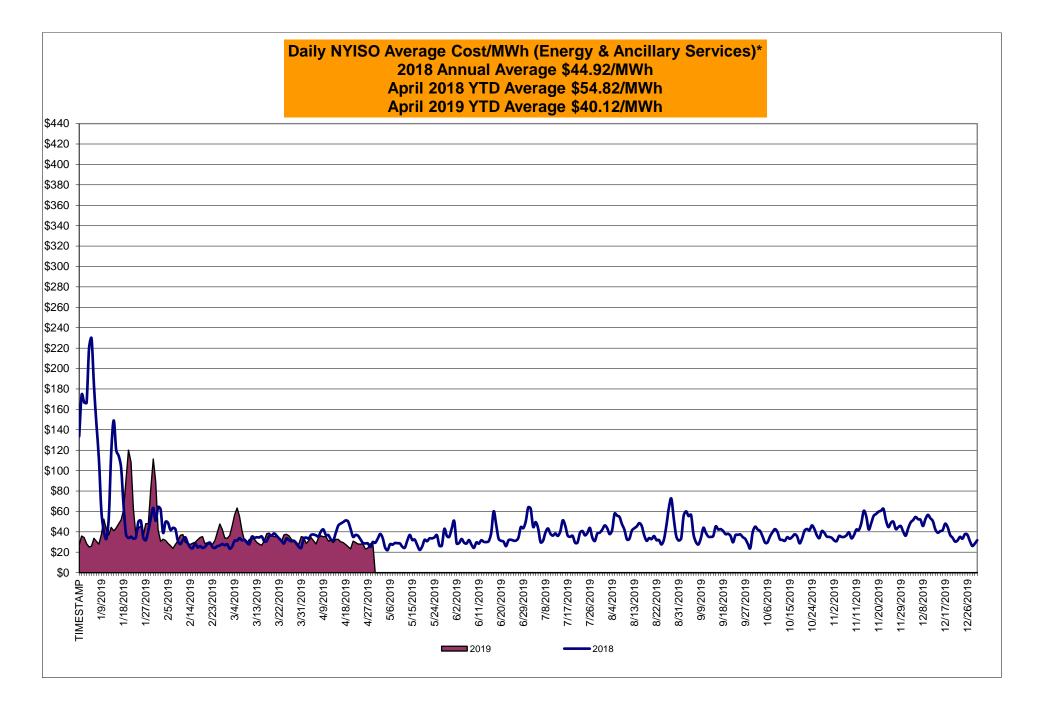
Business Issues Committee Meeting

May 13, 2019 Rensselaer, NY



Market Performance Highlights April 2019

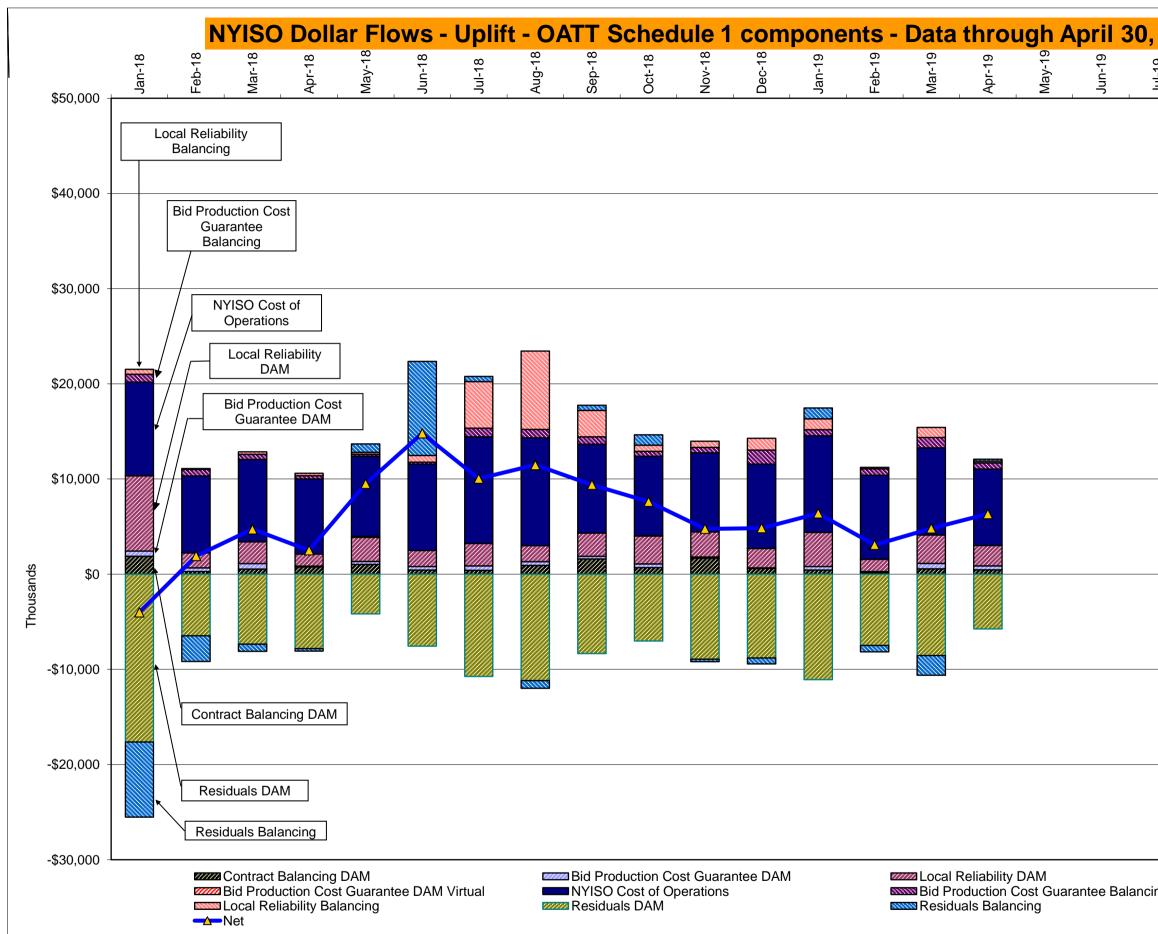
- LBMP for April is \$28.01/MWh; lower than \$34.91/MWh in March 2019 and \$35.00/MWh in April 2018.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to March.
- April 2019 average year-to-date monthly cost of \$40.12/MWh is a 27% decrease from \$54.82/MWh in April 2018.
- Average daily sendout is 371 GWh/day in April; lower than 411 GWh/day in March 2019 and 390 GWh/day in April 2018.
- Natural gas prices were lower and distillate prices were higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$2.37/MMBtu, down from \$2.93/MMBtu in March.
 - Natural gas prices are down 15.1% year-over-year.
 - Jet Kerosene Gulf Coast was \$14.63/MMBtu, up from \$14.08/MMBtu in March.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.72/MMBtu, up from \$14.18/MMBtu in March.
 - Distillate prices are down 1.5% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.15)/MWh; higher than (\$0.33)/MWh in March.
 - Local Reliability Share is \$0.20/MWh, lower than \$0.31/MWh in March.
 - Statewide Share is (\$0.35)/MWh, higher than (\$0.64)/MWh in March.
 - TSA \$ per NYC MWh is \$0.01/MWh.
- Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than March.



* Excludes ICAP payments.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2019 | January | <u>February</u> | March | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | December |
| LBMP | 50.93 | <u>33.51</u> | 34.91 | 28.01 | <u>inay</u> | <u>ouric</u> | <u>oury</u> | <u>//uguot</u> | | | | December |
| NTAC | 0.51 | 0.69 | 0.98 | 1.16 | | | | | | | | |
| Reserve | 0.54 | 0.51 | 0.55 | 0.63 | | | | | | | | |
| Regulation | 0.13 | 0.01 | 0.10 | 0.33 | | | | | | | | |
| NYISO Cost of Operations | 0.68 | 0.68 | 0.69 | 0.69 | | | | | | | | |
| FERC Fee Recovery | 0.08 | 0.09 | 0.09 | 0.10 | | | | | | | | |
| Uplift | (0.25) | (0.44) | (0.33) | (0.15) | | | | | | | | |
| Uplift: Local Reliability Share | 0.32 | 0.11 | 0.31 | 0.20 | | | | | | | | |
| Uplift: Statewide Share | (0.57) | (0.55) | (0.64) | (0.35) | | | | | | | | |
| Voltage Support and Black Start | 0.37 | 0.37 | 0.38 | 0.38 | | | | | | | | |
| Avg Monthly Cost | 52.99 | 35.51 | 37.38 | 31.16 | | | | | | | | |
| | | | | | | | | | | | | |
| Avg YTD Cost | 52.99 | 44.93 | 42.54 | 40.12 | | | | | | | | |
| TSA \$ per NYC MWh | 0.00 | 0.00 | 0.01 | 0.01 | | | | | | | | |
| | | | | | | | | | | | | |
| 2018 | January | February | March | <u>April</u> | May | <u>June</u> | July | <u>August</u> | <u>September</u> | October | November | <u>December</u> |
| 2018 LBMP | <u>January</u> 99.55 | <u>February</u> 33.83 | <u>March</u> 29.91 | <u>April</u> 35.00 | <u>May</u> 28.78 | <u>June</u> 32.53 | <u>July</u> 39.58 | <u>August</u> 42.56 | <u>September</u> 38.70 | <u>October</u> 35.85 | <u>November</u> 43.15 | <u>December</u> 40.31 |
| | | | | - | = | | | - | | | | |
| LBMP | 99.55 | 33.83 | 29.91 | 35.00 | 28.78 | 32.53 | 39.58 | 42.56 | 38.70 | 35.85 | 43.15 | 40.31 |
| LBMP NTAC | 99.55 0.71 | 33.83 0.58 | 29.91 0.88 | 35.00 1.09 | 28.78 0.88 | 32.53 1.00 | 39.58 0.93 | 42.56 0.72 | 38.70 0.40 | 35.85 0.36 | 43.15 1.18 | 40.31 0.93 |
| LBMP NTAC Reserve | 99.55 0.71 0.92 | 33.83 0.58 0.65 | 29.91 0.88 0.64 | 35.00 1.09 0.81 | 28.78 0.88 0.68 | 32.53 1.00 0.57 | 39.58 0.93 0.49 | 42.56 0.72 0.51 | 38.70 0.40 0.52 | 35.85 0.36 0.80 | 43.15 1.18 0.66 | 40.31 0.93 0.54 |
| LBMP NTAC Reserve Regulation | 99.55 0.71 0.92 0.15 | 33.83 0.58 0.65 0.15 | 29.91 0.88 0.64 0.16 | 35.00 1.09 0.81 0.12 | 28.78 0.88 0.68 0.14 | 32.53 1.00 0.57 0.16 | 39.58 0.93 0.49 0.09 | 42.56 0.72 0.51 0.09 | 38.70 0.40 0.52 0.09 | 35.85 0.36 0.80 0.16 | 43.15 1.18 0.66 0.17 | 40.31 0.93 0.54 0.17 |
| LBMP NTAC Reserve Regulation NYISO Cost of Operations | 99.55 0.71 0.92 0.15 0.65 | 33.83 0.58 0.65 0.15 0.65 | 29.91 0.88 0.64 0.16 0.66 | 35.00 1.09 0.81 0.12 0.65 | 28.78 0.88 0.68 0.14 0.66 | 32.53 1.00 0.57 0.16 0.67 | 39.58 0.93 0.49 0.09 0.67 | 42.56 0.72 0.51 0.09 0.66 | 38.70 0.40 0.52 0.09 0.66 | 35.85 0.36 0.80 0.16 0.63 | 43.15 1.18 0.66 0.17 0.63 | 40.31 0.93 0.54 0.17 0.63 |
| LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery | 99.55 0.71 0.92 0.15 0.65 0.08 | 33.83 0.58 0.65 0.15 0.65 0.10 | 29.91 0.88 0.64 0.16 0.66 0.09 | 35.00 1.09 0.81 0.12 0.65 0.10 | 28.78 0.88 0.68 0.14 0.66 0.09 | 32.53 1.00 0.57 0.16 0.67 0.09 | 39.58 0.93 0.49 0.09 0.67 0.06 | 42.56 0.72 0.51 0.09 0.66 0.06 | 38.70 0.40 0.52 0.09 0.66 0.08 | 35.85 0.36 0.80 0.16 0.63 0.09 | 43.15 1.18 0.66 0.17 0.63 0.09 | 40.31 0.93 0.54 0.17 0.63 0.08 |
| LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift | 99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59 (1.52) | 33.83 0.58 0.65 0.15 0.65 0.10 (0.50) | 29.91 0.88 0.64 0.16 0.66 0.09 (0.31) | 35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57) | 28.78 0.88 0.68 0.14 0.66 0.09 0.05 | 32.53 1.00 0.57 0.16 0.67 0.09 0.30 | 39.58 0.93 0.49 0.09 0.67 0.06 (0.13) | 42.56 0.72 0.51 0.09 0.66 0.06 (0.02) | 38.70 0.40 0.52 0.09 0.66 0.08 (0.11) | 35.85 0.36 0.80 0.16 0.63 0.09 (0.30) | 43.15 1.18 0.66 0.17 0.63 0.09 (0.27) | 40.31 0.93 0.54 0.17 0.63 0.08 (0.29) |
| LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share | 99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59 | 33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14 | 29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19 | 35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12 | 28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22 | 32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18 | 39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44 | 42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59 | 38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37 | 35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27 | 43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25 | 40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23 |
| LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share | 99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59 (1.52) | 33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14 (0.64) | 29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19 (0.51) | 35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57) | 28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22 (0.17) | 32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18 0.12 | 39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44 (0.57) | 42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59 (0.61) | 38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37 (0.48) | 35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27 (0.56) | 43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25 (0.52) | 40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23 (0.52) |
| LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start | 99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59 (1.52) 0.40 | 33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14 (0.64) 0.41 | 29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19 (0.51) 0.42 | 35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57) 0.41 | 28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22 (0.17) 0.42 | 32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18 0.12 0.42 | 39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44 (0.57) 0.42 | 42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59 (0.61) 0.42 | 38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37 (0.48) 0.42 | 35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27 (0.56) 0.40 | 43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25 (0.52) 0.40 | 40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23 (0.52) 0.40 |

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



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.

| 20 61-Inf | 19 61-904 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | |
|---------------------|-----------|--------|--------|--------|--------|--|
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NYISO Markets Transactions

| <u>019</u> | <u>January</u> | February | <u>March</u> | <u>April</u> | May | <u>June</u> |
|---|----------------|-----------------|--------------|--------------|------------|-------------|
| Day Ahead Market MWh | 15,299,458 | 13,391,383 | 13,527,834 | 11,811,029 | | |
| DAM LSE Internal LBMP Energy Sales | 57% | 57% | 59% | 59% | | |
| DAM External TC LBMP Energy Sales | 6% | 5% | 3% | 1% | | |
| DAM Bilateral - Internal Bilaterals | 29% | 30% | 30% | 31% | | |
| DAM Bilateral - Importl/Non-LBMP Market Bilaterals | 5% | 5% | 5% | 5% | | |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 1% | 1% | 2% | 2% | | |
| DAM Bilateral - Wheel Through Bilaterals | 2% | 2% | 2% | 2% | | |
| Balancing Energy Market MWh | -322,442 | -323,188 | -261,217 | -218,482 | | |
| Balancing Energy LSE Internal LBMP Energy Sales | -120% | -126% | -138% | -178% | | |
| Balancing Energy External TC LBMP Energy Sales | 65% | 67% | 82% | 113% | | |
| Balancing Energy Bilateral - Internal Bilaterals | -4% | -1% | -3% | 2% | | |
| Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals | 0% | 0% | 0% | 0% | | |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 3% | 7% | 6% | 7% | | |
| Balancing Energy Bilateral - Wheel Through Bilaterals | -45% | -47% | -47% | -44% | | |
| Transactions Summary | | | | | | |
| LBMP | 63% | 62% | 61% | 60% | | |
| Internal Bilaterals | 29% | 30% | 30% | 31% | | |
| Import Bilaterals | 5% | 5% | 6% | 6% | | |
| Export Bilaterals | 1% | 2% | 2% | 2% | | |
| Wheels Through | 1% | 1% | 1% | 1% | | |
| Market Share of Total Load | | | | | | |
| Day Ahead Market | 102.2% | 102.5% | 102.0% | 101.9% | | |
| Balancing Energy + | -2.2% | -2.5% | -2.0% | -1.9% | | |
| Total MWH | 14,977,016 | 13,068,195 | 13,266,617 | 11,592,547 | | |
| Average Daily Energy Sendout/Month GWh | 449 | 436 | 411 | 371 | | |
| | | | | , | | |
| <u>18</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> |
| | | | | | | |

| <u>2018</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|---|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| Day Ahead Market MWh | 15,153,751 | 12,643,854 | 13,521,386 | 12,158,686 | 12,721,073 | 13,983,384 | 16,839,994 | 17,195,447 | 14,432,632 | 13,548,828 | 13,506,134 | 14,450,460 |
| DAM LSE Internal LBMP Energy Sales | 59% | 57% | 58% | 60% | 61% | 61% | 65% | 65% | 61% | 57% | 58% | 56% |
| DAM External TC LBMP Energy Sales | 4% | 3% | 2% | 2% | 2% | 1% | 1% | 2% | 3% | 6% | 6% | 6% |
| DAM Bilateral - Internal Bilaterals | 29% | 31% | 32% | 30% | 29% | 30% | 26% | 25% | 28% | 29% | 30% | 30% |
| DAM Bilateral - Importl/Non-LBMP Market Bilaterals | 5% | 5% | 5% | 5% | 5% | 5% | 4% | 4% | 5% | 5% | 2% | 5% |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 1% | 1% | 2% | 2% | 2% |
| DAM Bilateral - Wheel Through Bilaterals | 1% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 2% |
| Balancing Energy Market MWh | -149,619 | -299,377 | -386,811 | -72,862 | -29,539 | -354,112 | -80,438 | -44,732 | -210,436 | -314,885 | -304,277 | -428,748 |
| Balancing Energy LSE Internal LBMP Energy Sales | -147% | -101% | -128% | -208% | -458% | -113% | -123% | -75% | -82% | -105% | -100% | -94% |
| Balancing Energy External TC LBMP Energy Sales | 74% | 24% | 37% | 189% | 564% | 29% | 129% | 209% | 14% | 30% | 18% | 27% |
| Balancing Energy Bilateral - Internal Bilaterals | 9% | 5% | 0% | -11% | 29% | 5% | 18% | 23% | 7% | 2% | 3% | 3% |
| Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 0% |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 22% | 9% | 6% | 34% | 51% | 3% | 14% | 25% | 3% | 0% | 0% | 0% |
| Balancing Energy Bilateral - Wheel Through Bilaterals | -58% | -36% | -15% | -103% | -287% | -23% | -138% | -281% | -42% | -27% | -31% | -36% |
| Transactions Summary | | | | | | | | | | | | |
| LBMP | 63% | 59% | 59% | 62% | 63% | 61% | 66% | 68% | 64% | 63% | 64% | 61% |
| Internal Bilaterals | 30% | 32% | 33% | 30% | 29% | 31% | 27% | 25% | 28% | 30% | 31% | 31% |
| Import Bilaterals | 5% | 5% | 6% | 5% | 5% | 5% | 4% | 4% | 5% | 5% | 3% | 5% |
| Export Bilaterals | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 1% | 1% | 2% | 2% | 2% |
| Wheels Through | 1% | 1% | 1% | 1% | 1% | 2% | 1% | 1% | 2% | 1% | 1% | 1% |
| Market Share of Total Load | | | | | | | | | | | | |
| Day Ahead Market | 101.0% | 102.4% | 102.9% | 100.6% | 100.2% | 102.6% | 100.5% | 100.3% | 101.5% | 102.4% | 102.3% | 103.1% |
| Balancing Energy + | -1.0% | -2.4% | -2.9% | -0.6% | -0.2% | -2.6% | -0.5% | -0.3% | -1.5% | -2.4% | -2.3% | -3.1% |
| Total MWH | 15,004,132 | 12,344,477 | 13,134,575 | 12,085,824 | 12,691,534 | 13,629,272 | 16,759,556 | 17,150,715 | 14,222,196 | 13,233,943 | 13,201,857 | 14,021,712 |
| Average Daily Energy Sendout/Month GWh | 463 | 426 | 413 | 390 | 397 | 445 | 529 | 537 | 458 | 399 | 411 | 425 |

+ 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.

| <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|-------------|---------------|------------------|----------------|-----------------|-----------------|
|-------------|---------------|------------------|----------------|-----------------|-----------------|

Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

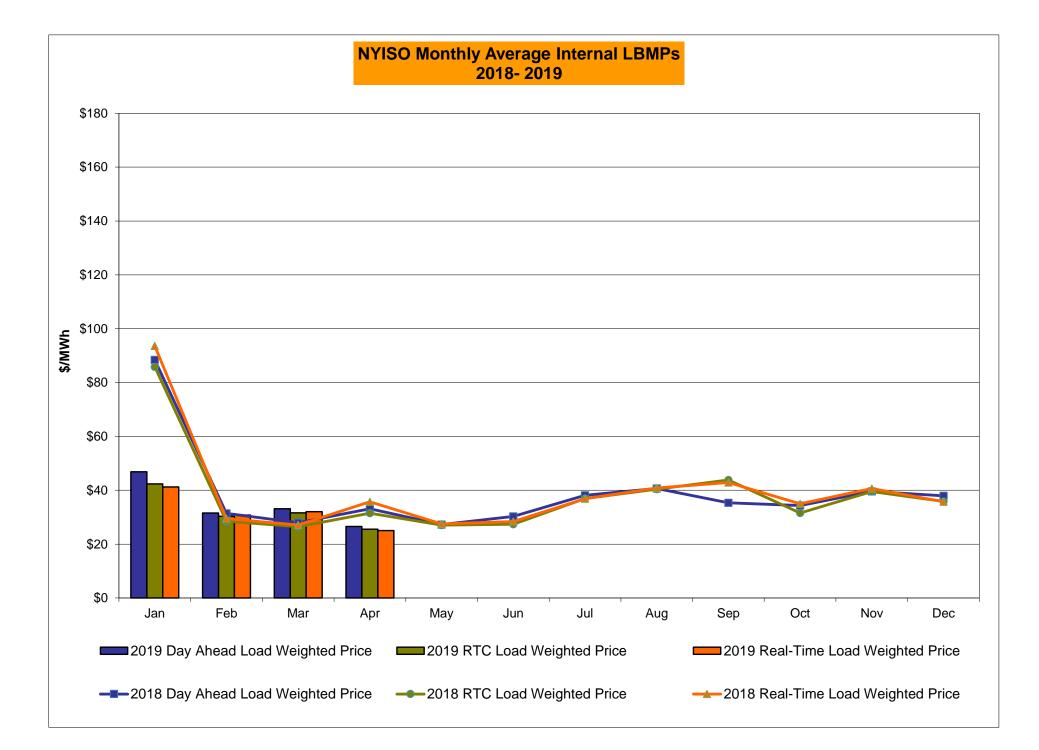
NYISO Markets 2019 Energy Statistics

| | <u>January</u> | February | March | April | May | <u>June</u> | July | August | <u>September</u> | October November December |
|--|----------------|-----------------|------------|---------|-----|-------------|------|--------|------------------|---------------------------|
| DAY AHEAD LBMP | | | | | | | | | | |
| Price * | \$45.01 | \$30.66 | \$32.34 | \$25.97 | | | | | | |
| Standard Deviation | \$25.67 | \$12.86 | \$9.30 | \$6.32 | | | | | | |
| Load Weighted Price ** | \$46.88 | \$31.53 | \$33.14 | \$26.57 | | | | | | |
| RTC LBMP | | | | | | | | | | |
| | * 40.00 | | ••• | | | | | | | |
| Price * | \$40.86 | \$29.74 | \$31.04 | \$25.07 | | | | | | |
| Standard Deviation | \$23.02 | \$10.79 | \$8.48 | \$7.53 | | | | | | |
| Load Weighted Price ** | \$42.39 | \$30.32 | \$31.62 | \$25.54 | | | | | | |
| REAL TIME LBMP | | | | | | | | | | |
| Price * | \$39.54 | \$30.13 | \$31.46 | \$24.47 | | | | | | |
| Standard Deviation | \$26.03 | \$13.77 | \$12.54 | \$17.27 | | | | | | |
| Load Weighted Price ** | \$41.24 | \$30.80 | \$32.06 | \$25.06 | | | | | | |
| Average Daily Energy Sendout/Month GWh | 449 | 436 | 411 | 371 | | | | | | |

NYISO Markets 2018 Energy Statistics

| | January | February | March | <u>April</u> | May | June | July | August | September | <u>October</u> | November [| <u>December</u> |
|--|---------|----------|---------|--------------|---------|---------|---------|---------|-----------|----------------|------------|-----------------|
| DAY AHEAD LBMP Price * | \$83.53 | \$30.37 | \$27.37 | \$32.40 | \$25.97 | \$28.41 | \$35.73 | \$38.00 | \$33.28 | \$33.27 | \$38.36 | \$36.88 |
| Standard Deviation | \$58.94 | \$12.38 | \$6.34 | \$9.06 | \$9.22 | \$11.42 | \$15.25 | \$16.51 | \$12.01 | \$9.24 | \$11.36 | \$11.61 |
| Load Weighted Price ** | \$88.42 | \$31.44 | \$27.95 | \$33.14 | \$27.26 | \$30.27 | \$38.14 | \$40.64 | \$35.33 | \$34.33 | \$39.55 | \$37.96 |
| RTC LBMP | | | | | | | | | | | | |
| Price * | \$81.65 | \$27.73 | \$25.99 | \$30.80 | \$25.40 | \$26.06 | \$34.65 | \$38.13 | \$39.52 | \$30.92 | \$38.37 | \$35.01 |
| Standard Deviation | \$60.83 | \$11.96 | \$8.99 | \$14.30 | \$20.37 | \$12.78 | \$17.44 | \$20.05 | \$61.50 | \$13.43 | \$17.24 | \$12.27 |
| Load Weighted Price ** | \$85.85 | \$28.54 | \$26.46 | \$31.47 | \$27.08 | \$27.35 | \$36.93 | \$40.40 | \$43.83 | \$31.55 | \$39.53 | \$35.84 |
| REAL TIME LBMP | | | | | | | | | | | | |
| Price * | \$87.94 | \$28.50 | \$26.49 | \$34.53 | \$25.57 | \$26.31 | \$34.34 | \$38.07 | \$38.15 | \$33.88 | \$39.18 | \$34.74 |
| Standard Deviation | \$87.41 | \$17.36 | \$12.25 | \$26.57 | \$23.49 | \$24.34 | \$18.44 | \$27.21 | \$46.81 | \$37.42 | \$26.15 | \$17.44 |
| Load Weighted Price ** | \$93.59 | \$29.49 | \$27.09 | \$35.72 | \$27.47 | \$28.38 | \$36.84 | \$40.87 | \$42.87 | \$34.94 | \$40.63 | \$35.70 |
| Average Daily Energy Sendout/Month GWh | 463 | 426 | 413 | 390 | 397 | 445 | 529 | 537 | 458 | 399 | 411 | 425 |

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

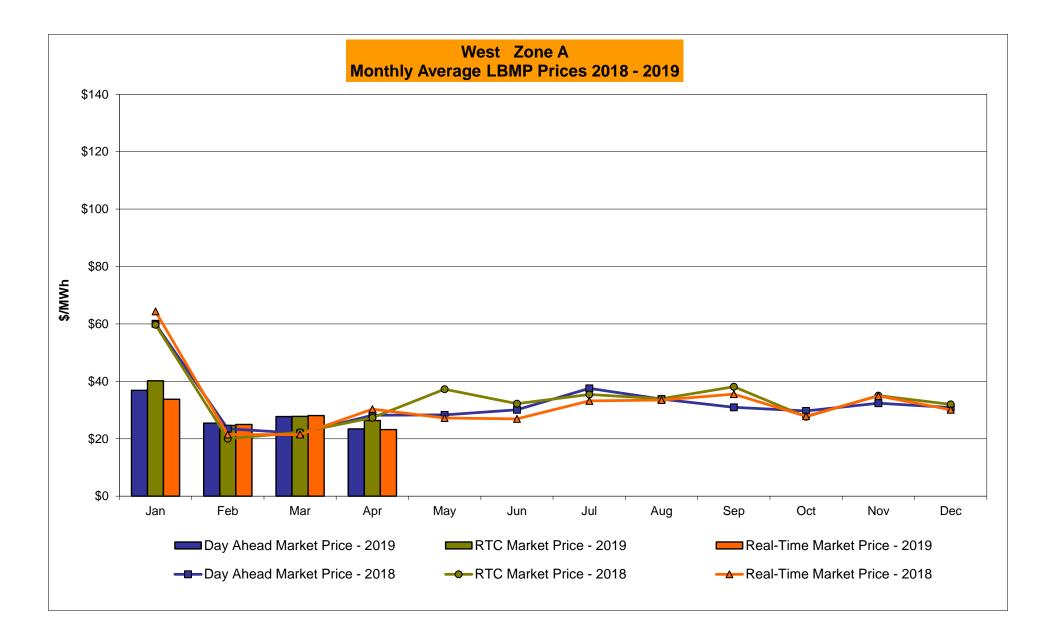


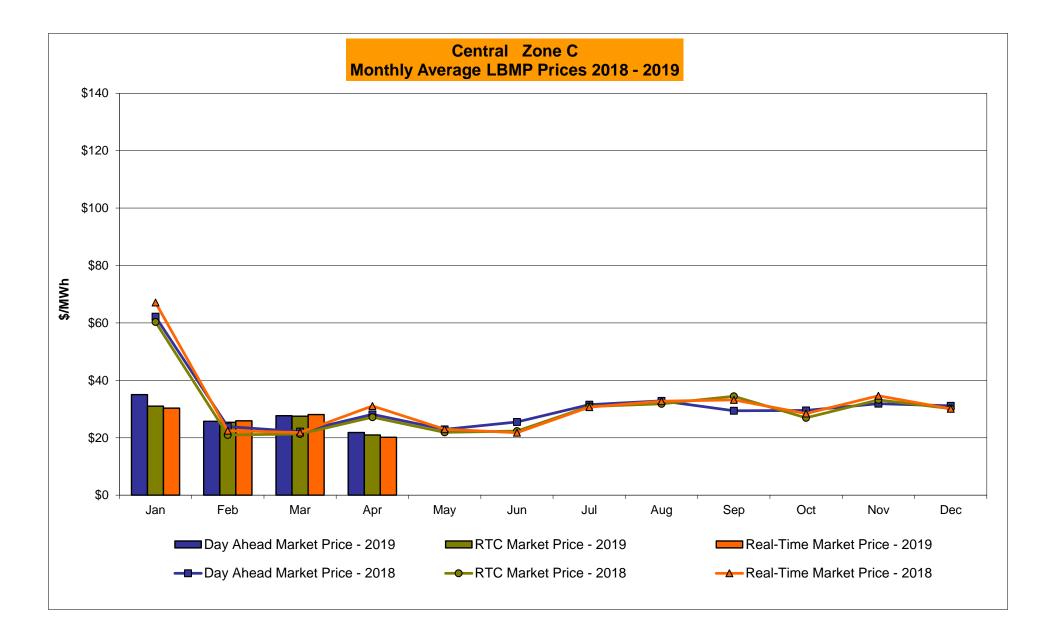
April 2019 Zonal LBMP Statistics for NYISO (\$/MWh)

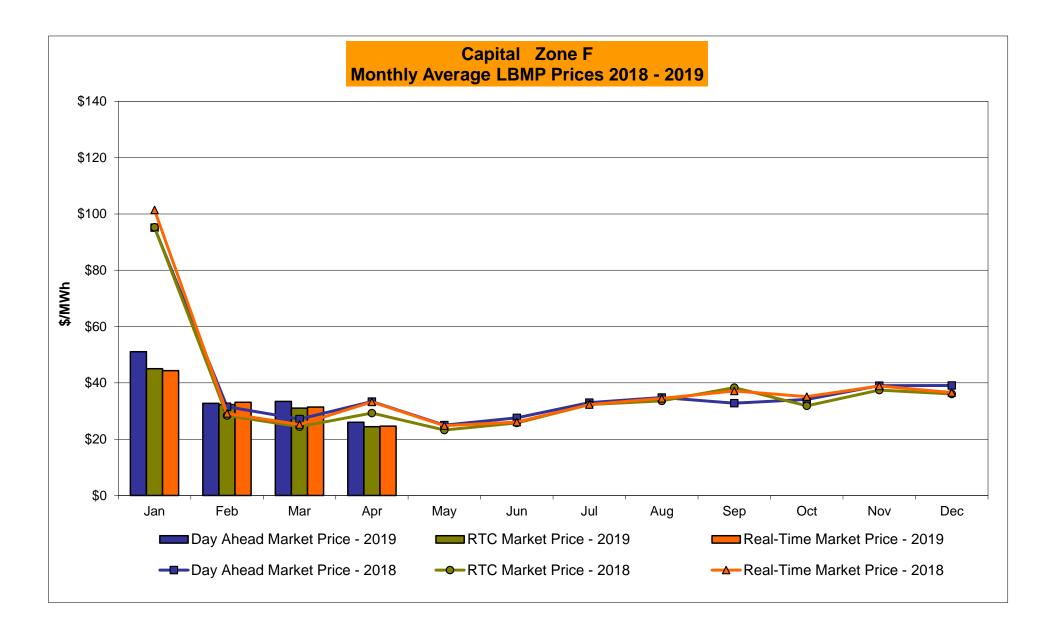
| | | | | | MOHAWK | | HUDSON | | | NEW YORK | LONG |
|--------------------|--------|---------|--------|---------|--------|---------|--------|----------|---------------|---------------|---------------|
| | WEST | GENESEE | NORTH | CENTRAL | VALLEY | CAPITAL | VALLEY | MILLWOOD | DUNWOODIE | CITY | ISLAND |
| | Zone A | Zone B | Zone D | Zone C | Zone E | Zone F | Zone G | Zone H | <u>Zone I</u> | <u>Zone J</u> | <u>Zone K</u> |
| DAY AHEAD LBMP | | | | | | | | | | | |
| Unweighted Price * | 23.40 | 21.03 | 19.05 | 21.82 | 21.89 | 26.03 | 25.94 | 26.18 | 26.29 | 28.82 | 29.41 |
| Standard Deviation | 8.14 | 6.38 | 5.85 | 6.14 | 6.23 | 5.94 | 6.44 | 6.58 | 6.60 | 6.93 | 7.82 |
| RTC LBMP | | | | | | | | | | | |
| Unweighted Price * | 26.33 | 19.69 | 18.88 | 20.96 | 20.98 | 24.45 | 24.20 | 24.32 | 24.39 | 26.61 | 30.27 |
| Standard Deviation | 17.53 | 7.11 | 7.26 | 7.07 | 7.13 | 6.93 | 6.64 | 6.68 | 6.68 | 8.75 | 25.33 |
| REAL TIME LBMP | | | | | | | | | | | |
| Unweighted Price * | 23.20 | 19.05 | 18.07 | 20.18 | 20.27 | 24.64 | 24.07 | 24.19 | 24.26 | 26.91 | 28.75 |
| Standard Deviation | 20.90 | 16.28 | 15.89 | 16.42 | 16.56 | 18.96 | 18.05 | 18.14 | 18.16 | 20.03 | 23.61 |

| | ONTARIO IESO | HYDRO QUEBEC (Wheel) | HYDRO QUEBEC (Import/Export) | PJM | NEW ENGLAND | CROSS SOUND CABLE | NORTHPORT- NORWALK | NEPTUNE | LINDEN VFT | HUDSON | Dennison |
|--------------------|-----------------|----------------------------|------------------------------------|---------------|----------------|-------------------------|-----------------------|--------------|---------------------|---------------------|---------------------|
| | | | | | | Controllable | Controllable | Controllable | <u>Controllable</u> | <u>Controllable</u> | <u>Controllable</u> |
| | <u>Zone O</u> | <u>Zone M</u> | <u>Zone M</u> | <u>Zone P</u> | <u>Zone N</u> | <u>Line</u> | <u>Line</u> | <u>Line</u> | <u>Line</u> | <u>Line</u> | <u>Line</u> |
| DAY AHEAD LBMP | | | | | | | | | | | |
| Unweighted Price * | 20.08 | 19.71 | 19.67 | 24.05 | 26.47 | 29.34 | 27.93 | 28.84 | 28.80 | 28.60 | 18.85 |
| Standard Deviation | 5.28 | 5.87 | 5.85 | 6.00 | 5.51 | 7.75 | 6.70 | 7.79 | 6.94 | 6.90 | 5.76 |
| RTC LBMP | | | | | | | | | | | |
| Unweighted Price * | 18.74 | 19.25 | 19.25 | 23.95 | 26.05 | 29.95 | 29.71 | 29.48 | 25.96 | 26.03 | 18.83 |
| Standard Deviation | 6.72 | 7.25 | 7.25 | 8.36 | 7.76 | 25.54 | 25.54 | 25.68 | 7.20 | 7.25 | 7.98 |
| REAL TIME LBMP | | | | | | | | | | | |
| Unweighted Price * | 18.78 | 18.46 | 18.46 | 22.94 | 25.20 | 28.48 | 27.83 | 28.06 | 26.43 | 26.51 | 17.90 |
| Standard Deviation | 15.68 | 15.89 | 15.89 | 16.97 | 18.47 | 23.36 | 24.26 | 23.30 | 19.67 | 19.79 | 16.33 |

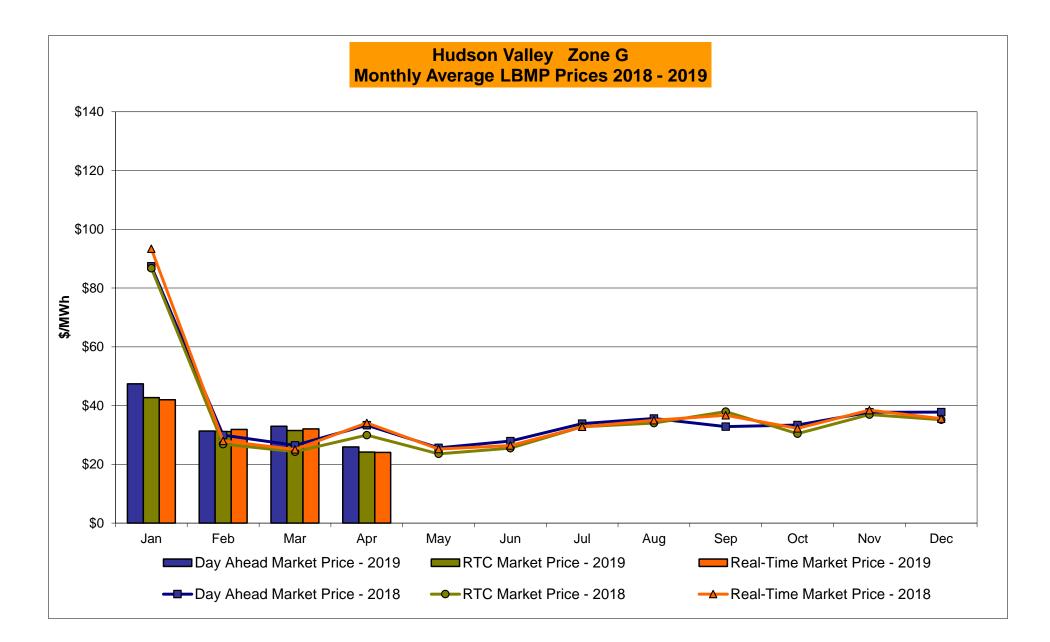
* Straight LBMP averages

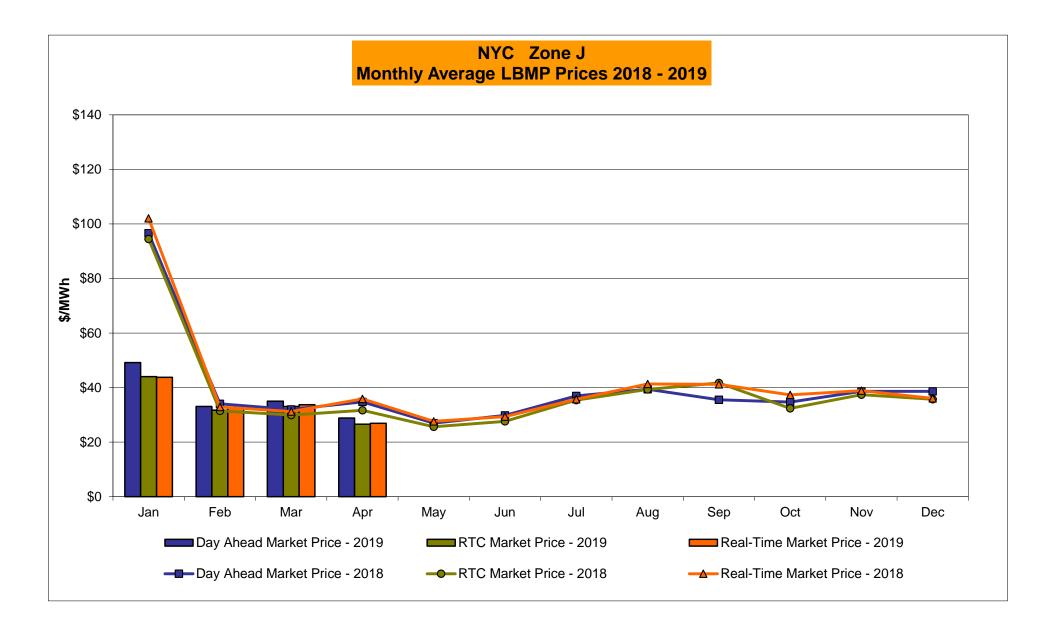


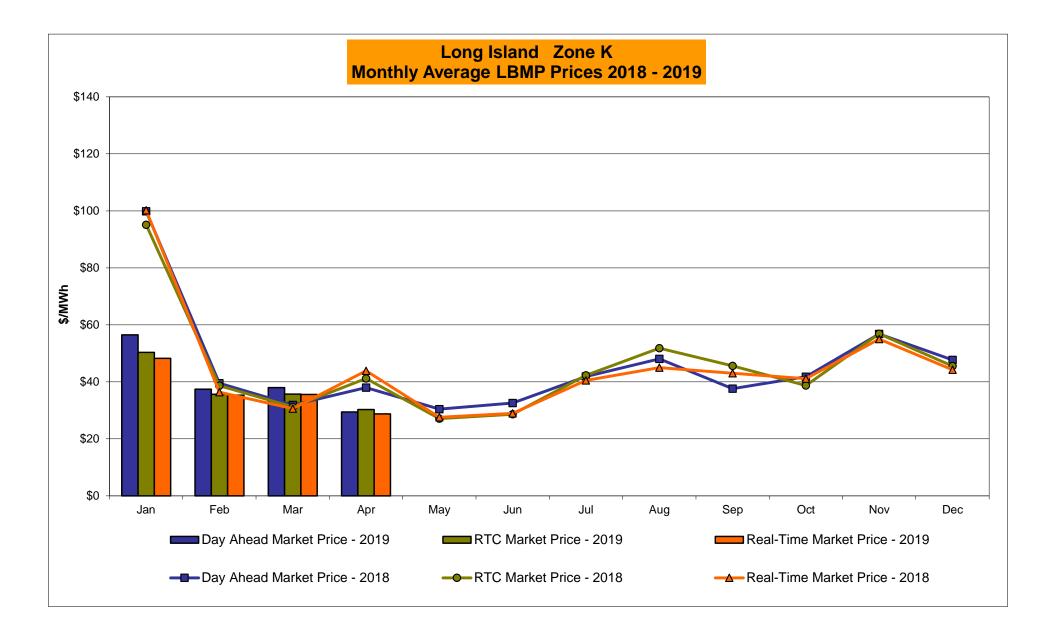


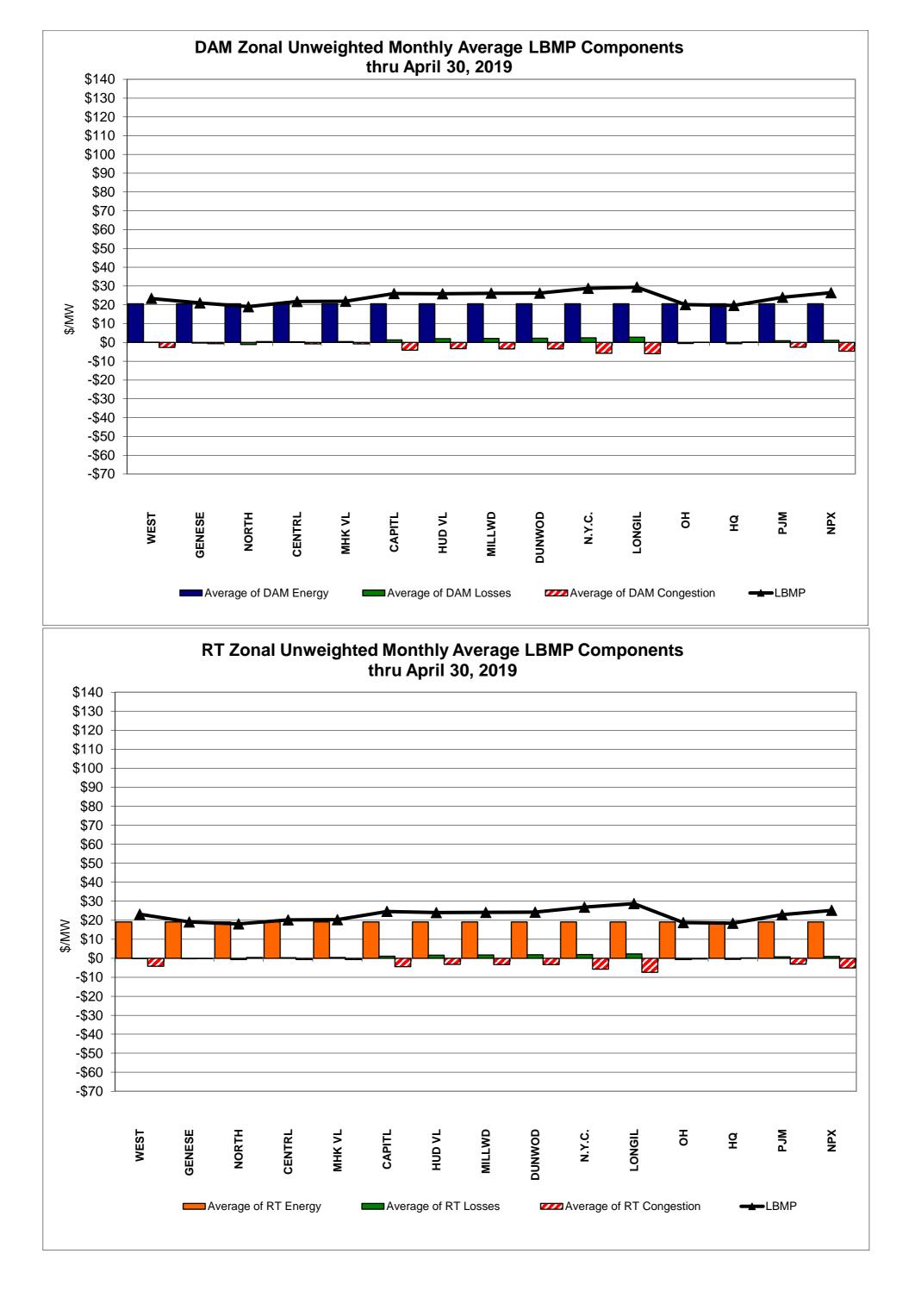


Market Mitigation and Analysis Prepared:5/8/2019 11:48 AM

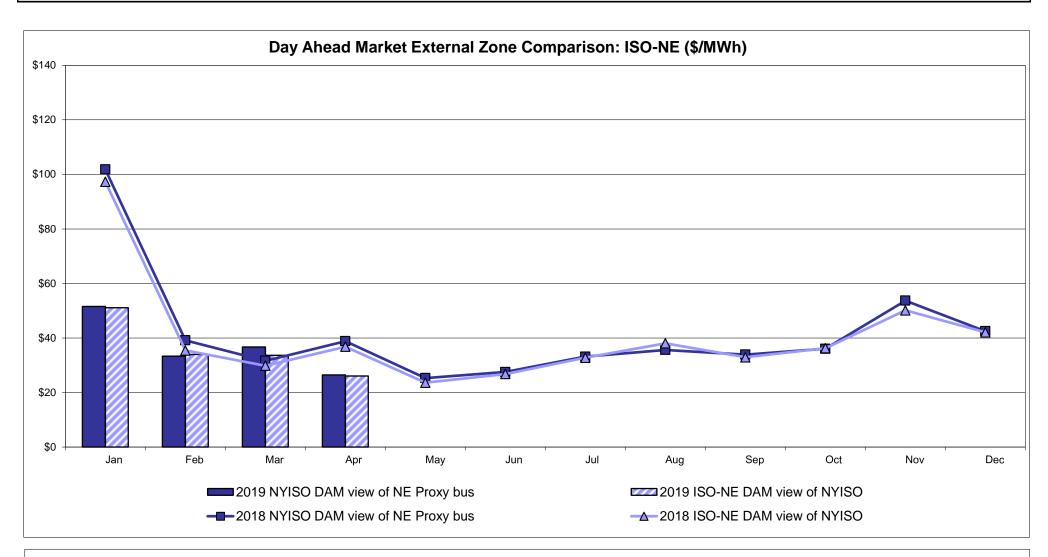


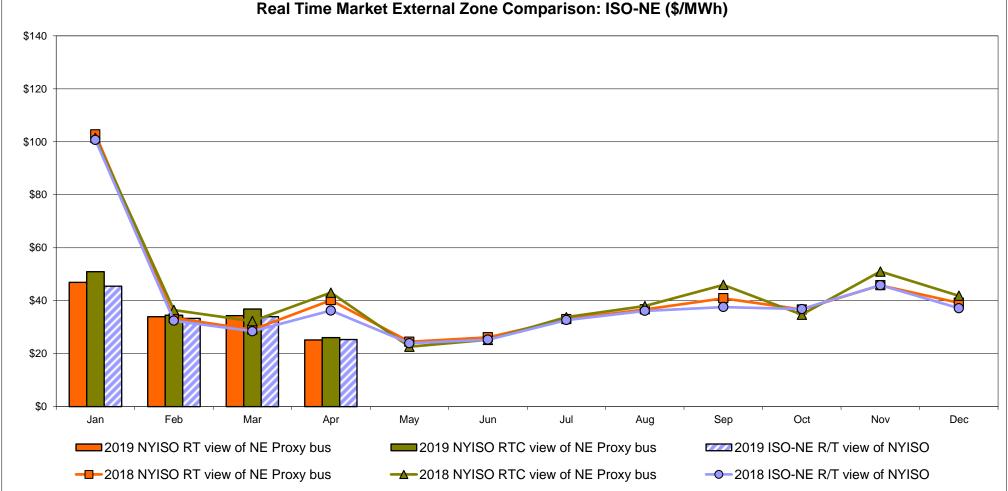


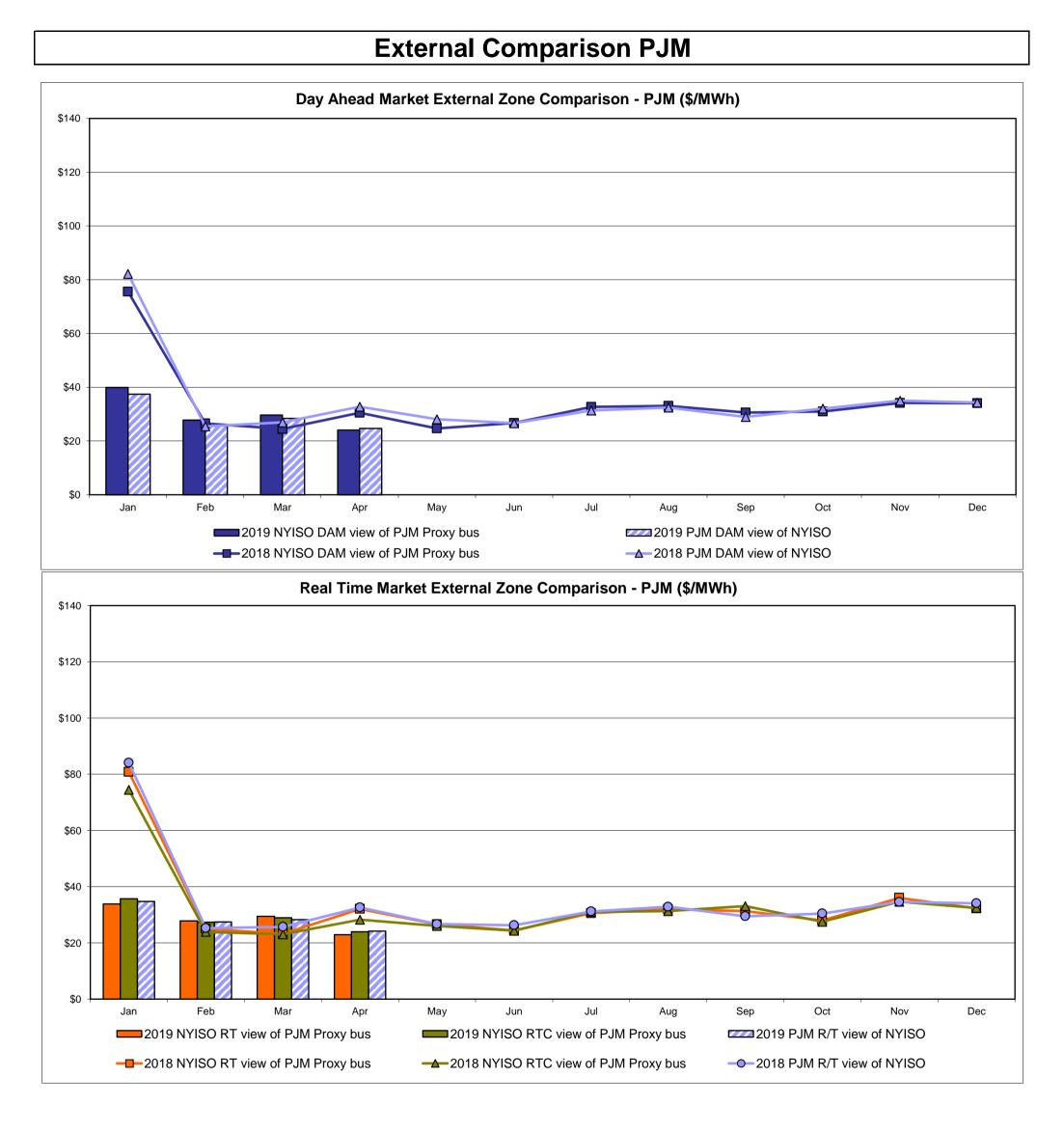




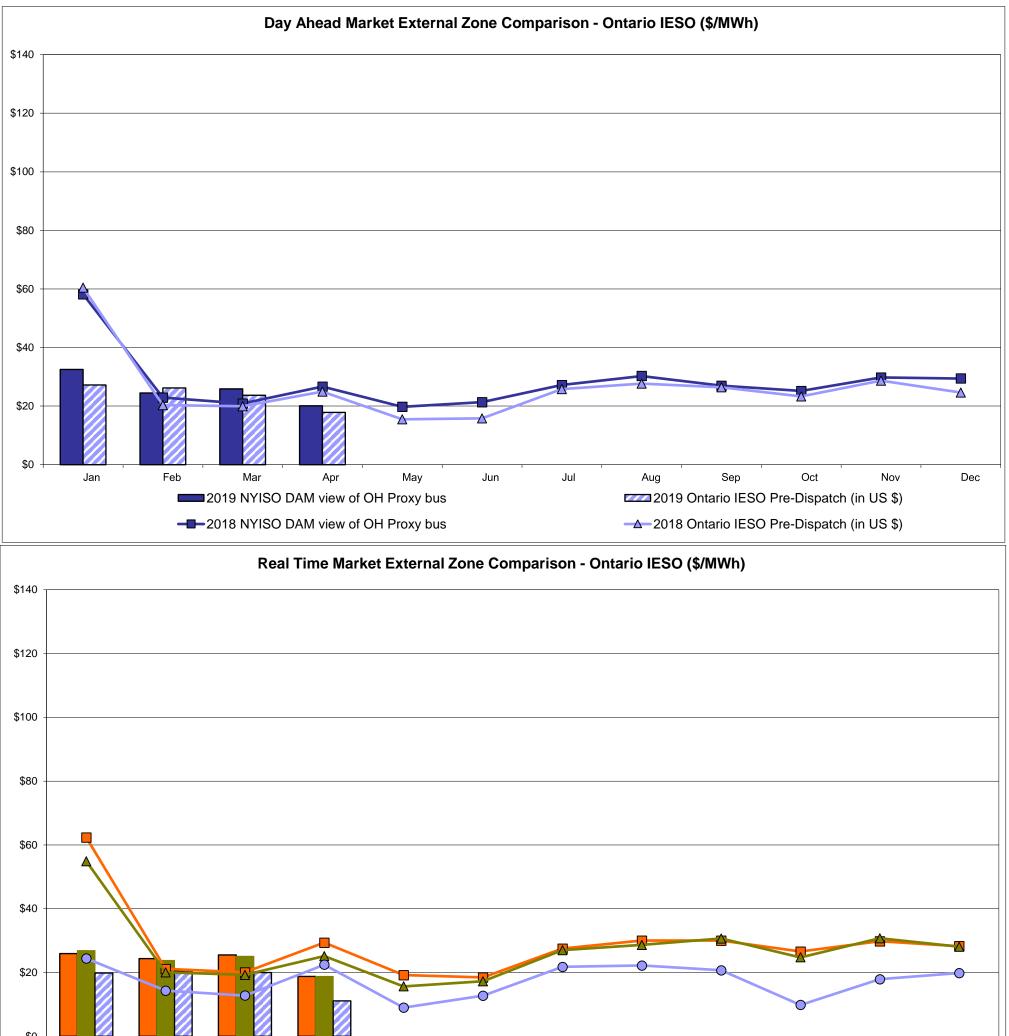
External Comparison ISO-New England







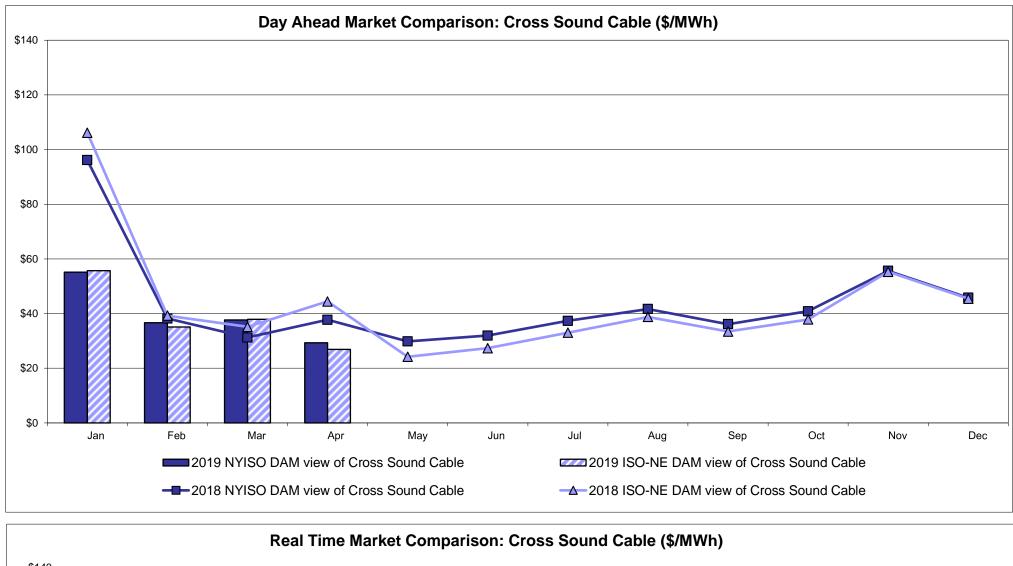
External Comparison Ontario IESO



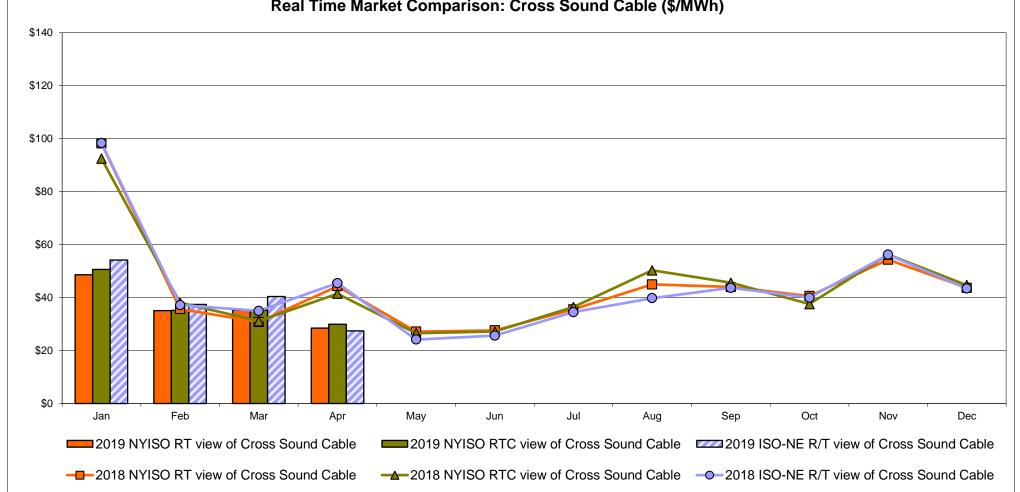
| \$0 +-• | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------|--------------|--------------|---------------|---------|--------------|-----------|--------------|-----------|---------|--------------|-------------|--------|
| | — 201 | 9 NYISO RT v | iew of OH Pro | oxy bus | 2019 | NYISO RTC | view of OH F | Proxy bus | 2019 | Ontario IESC | HOEP (in US | \$ \$) |
| | 201 | 8 NYISO RT v | iew of OH Pro | oxy bus | 2018 | NYISO RTC | view of OH F | Proxy bus | -0-2018 | Ontario IESC | HOEP (in US | S \$) |

Notes: Exchange factor used for April 2019 was 0.747495888772612 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

> Market Mitigation and Analysis Prepared: 5/8/2019 11:48 AM



External Controllable Line: Cross Sound Cable (New England)

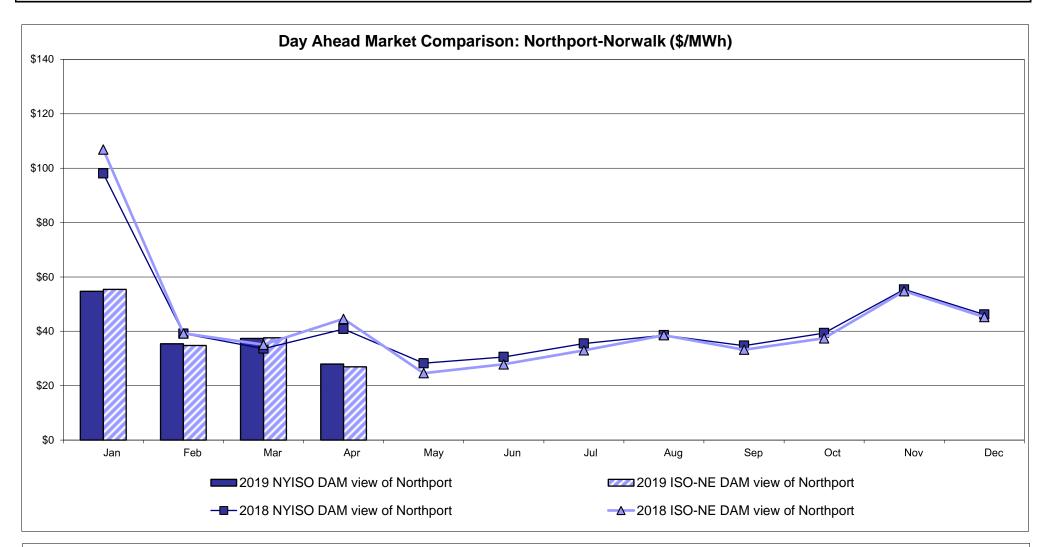


Note:

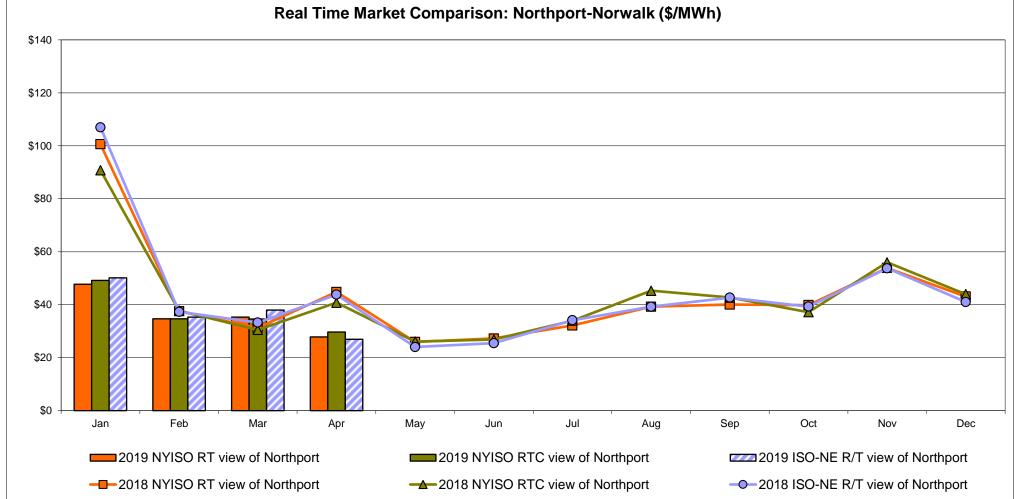
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)

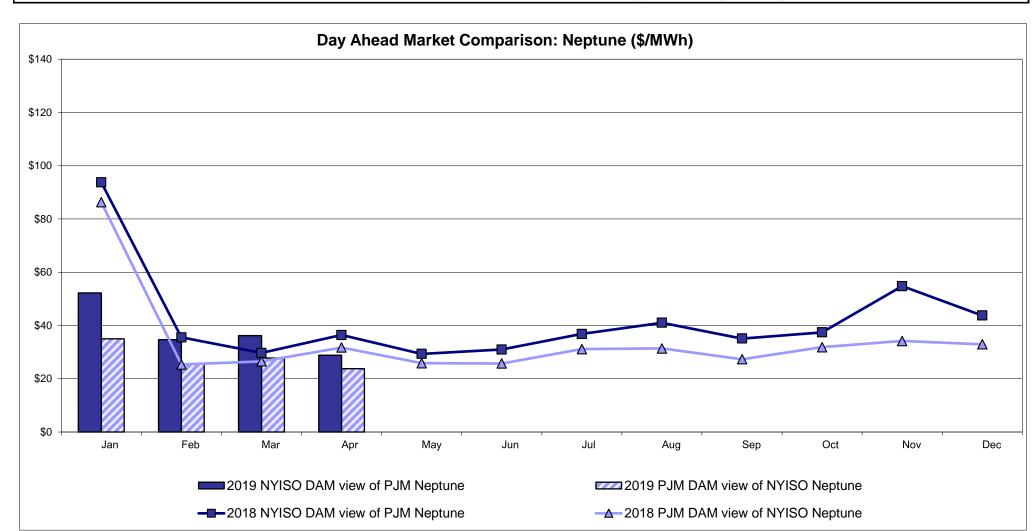


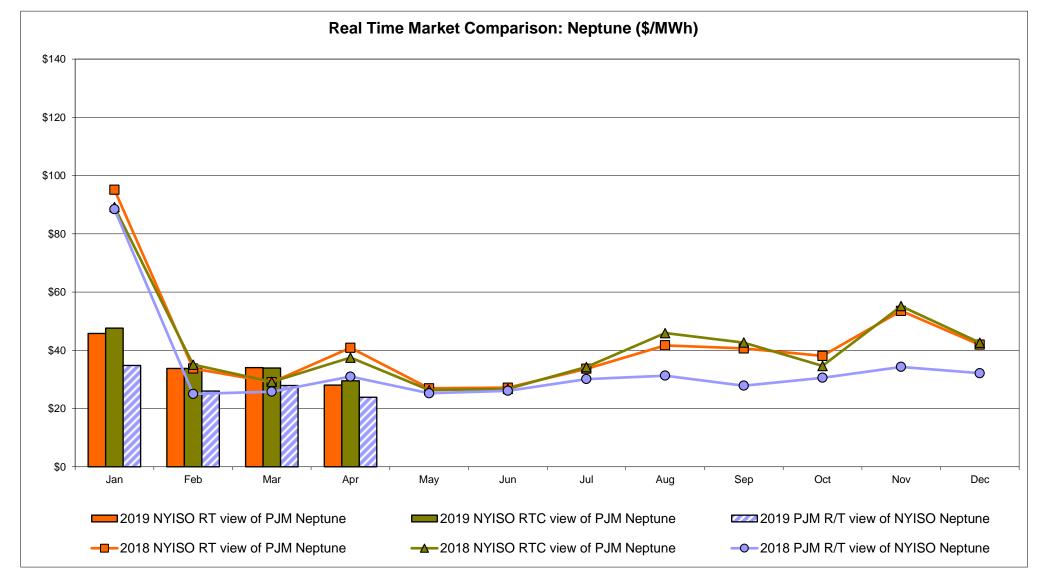
Note:

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.

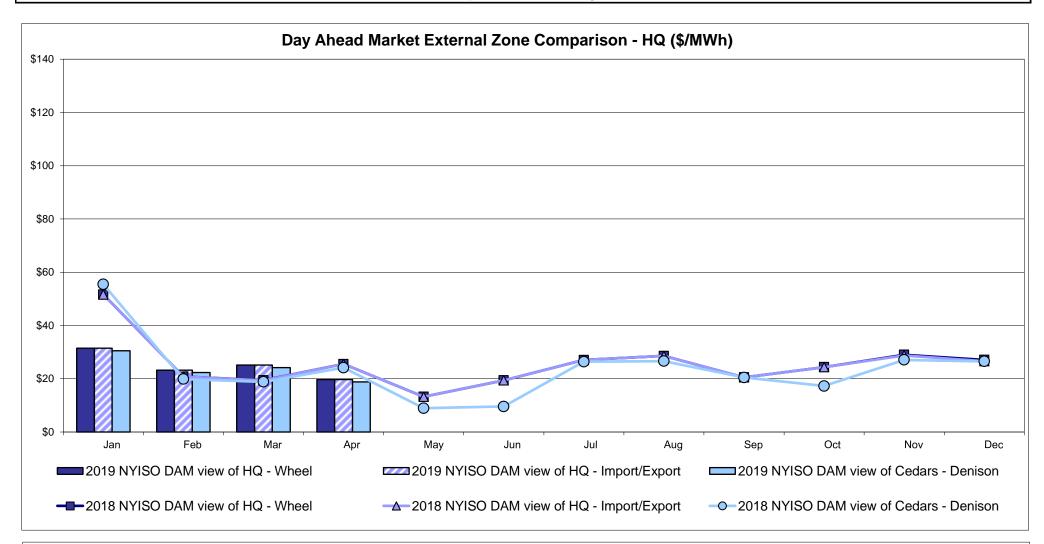
The DAM and R/T prices at the 1385 interface are used for NYISO.

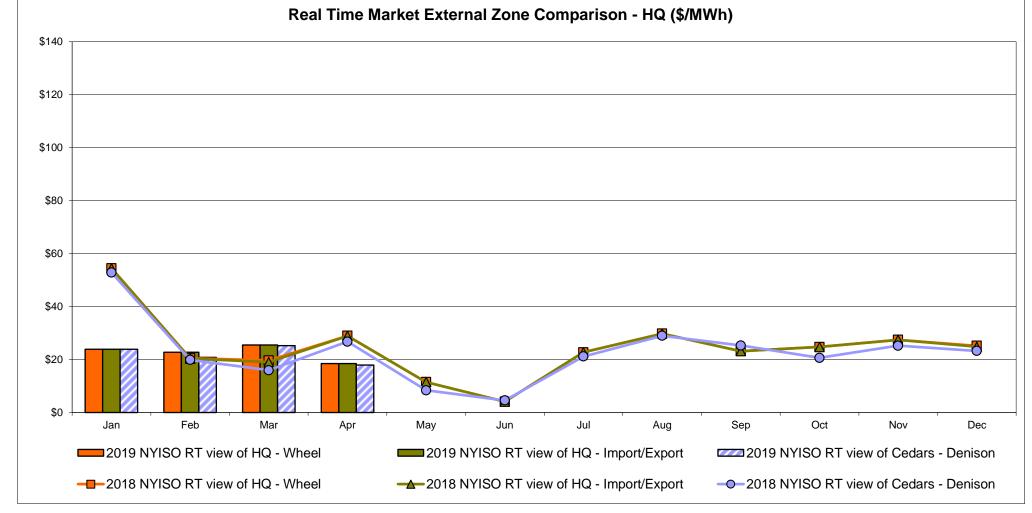




External Controllable Line: Neptune (PJM)

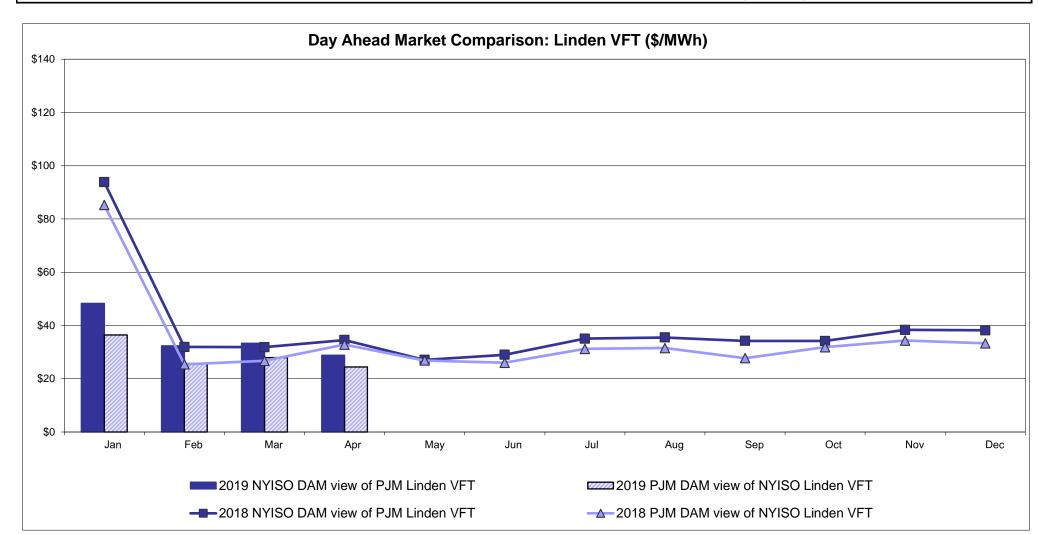
External Comparison Hydro-Quebec



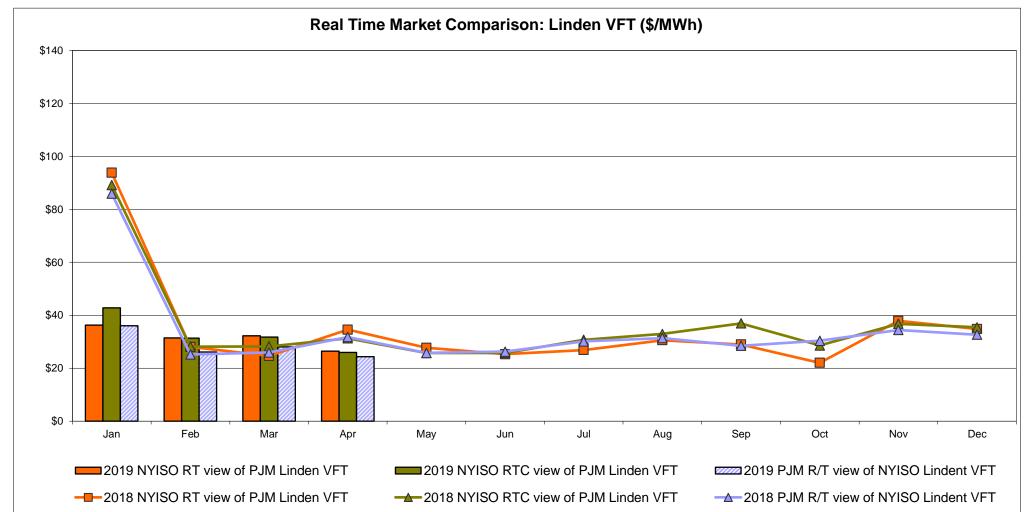


Note:

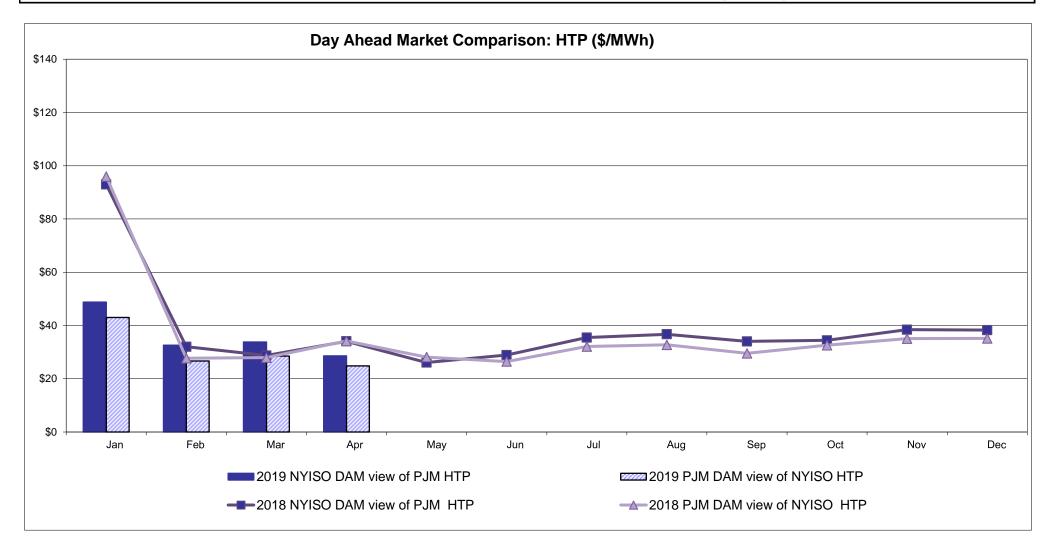
Hydro-Quebec Prices are unavailable.

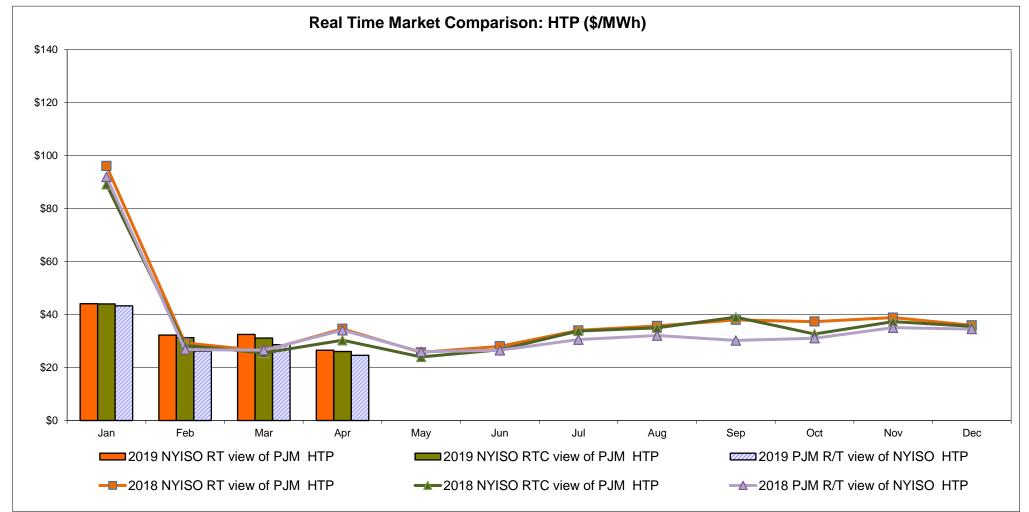


External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)



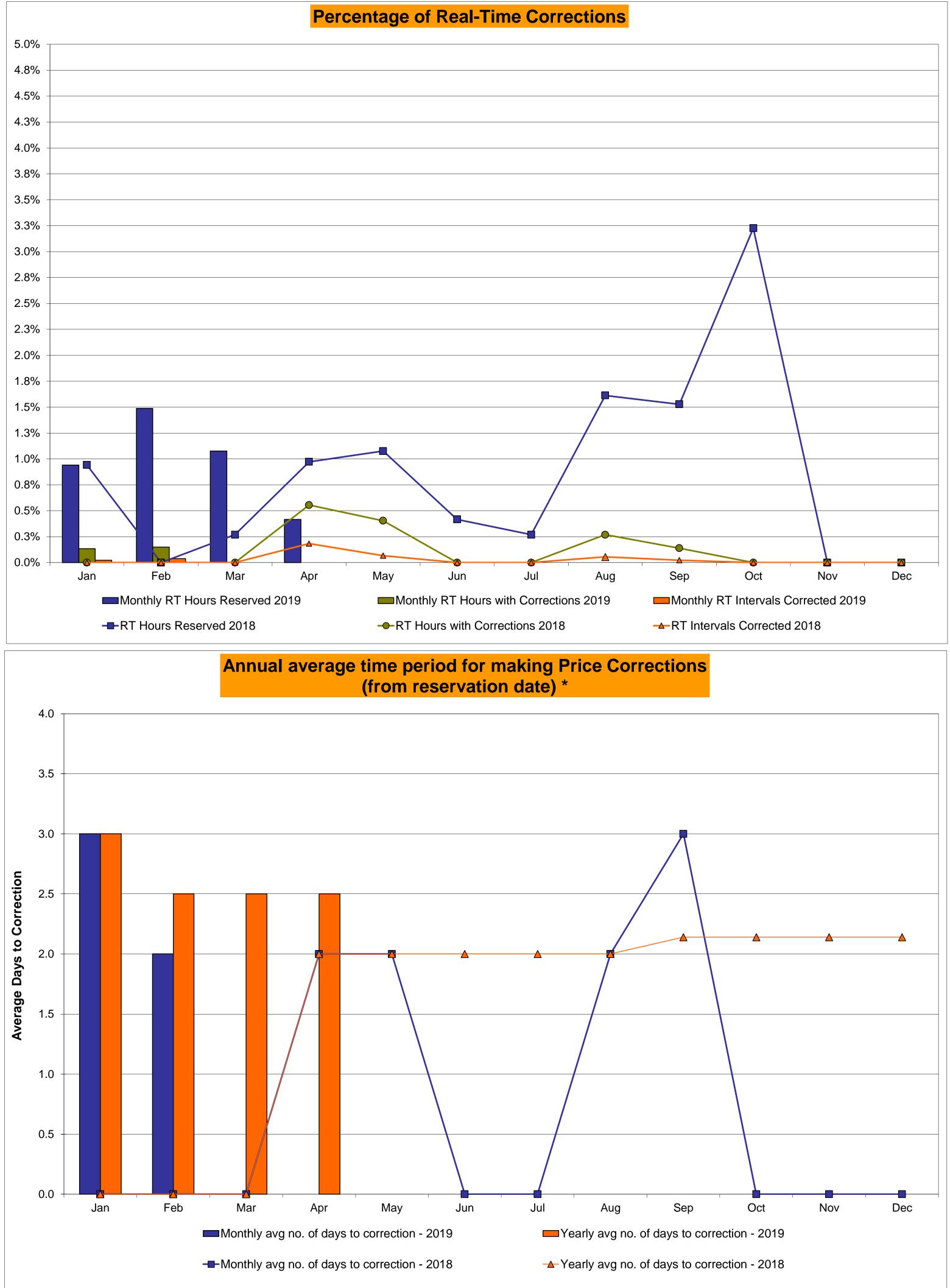


NYISO Real Time Price Correction Statistics

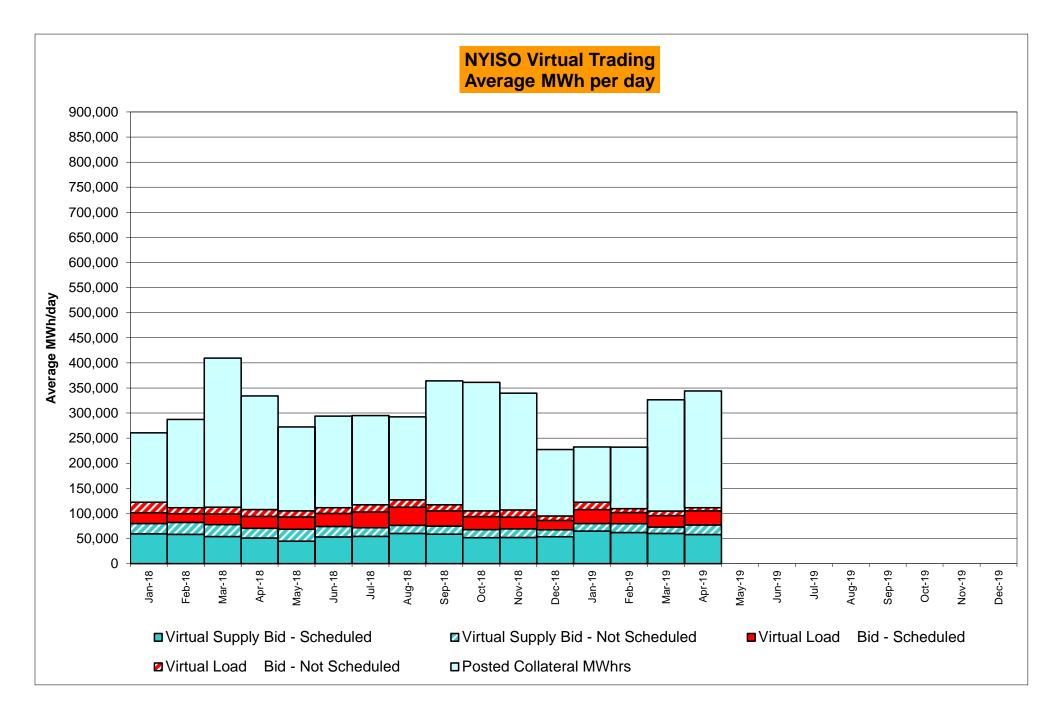
| <u>2019</u> | | <u>January</u> | February | March | <u>April</u> | <u>May</u> | June | July | <u>August</u> | <u>September</u> | <u>October</u> | November | <u>December</u> |
|--|--|---|--|---|---|--|--|---|---|---|---|--|--|
| Hour Corrections | in the meanth | 4 | 4 | 0 | 0 | | | | | | | | |
| Number of hours with corrections | in the month | 1 | 1 | 0 | 0 | | | | | | | | |
| Number of hours | in the month | 744 | 672 | 743 | 720 | | | | | | | | |
| % of hours with corrections | in the month | 0.13% | 0.15% | 0.00% | 0.00% | | | | | | | | |
| % of hours with corrections | year-to-date | 0.13% | 0.14% | 0.09% | 0.07% | | | | | | | | |
| Interval Corrections | | | | | | | | | | | | | |
| Number of intervals corrected | in the month | 2 | 3 | 0 | 0 | | | | | | | | |
| Number of intervals | in the month | 9,071 | 8,131 | 9,008 | 8,750 | | | | | | | | |
| % of intervals corrected | in the month | 0.02% | 0.04% | 0.00% | 0.00% | | | | | | | | |
| % of intervals corrected | year-to-date | 0.02% | 0.03% | 0.02% | 0.01% | | | | | | | | |
| Hours Reserved | | | | | | | | | | | | | |
| Number of hours reserved | in the month | 7 | 10 | 8 | 3 | | | | | | | | |
| Number of hours | in the month | 744 | 672 | 743 | 720 | | | | | | | | |
| % of hours reserved | in the month | 0.94% | 1.49% | 1.08% | 0.42% | | | | | | | | |
| % of hours reserved | year-to-date | 0.94% | 1.20% | 1.16% | 0.97% | | | | | | | | |
| Days to Correction * | | | | | | | | | | | | | |
| Avg. number of days to correction | in the month | 3.00 | 2.00 | 0.00 | 0.00 | | | | | | | | |
| Avg. number of days to correction | year-to-date | 3.00 | 2.50 | 2.50 | 2.50 | | | | | | | | |
| Days Without Corrections | | | | | | | | | | | | | |
| Days without corrections | in the month | 30 | 27 | 31 | 30 | | | | | | | | |
| Days without corrections | year-to-date | 30 | 57 | 88 | 118 | | | | | | | | |
| | | | | | | | | | | | | | |
| 2018 | | Januarv | Februarv | March | April | Mav | June | Julv | August | September | October | November | December |
| 2018 Hour Corrections | | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| Hour Corrections | in the month | | | | | | | | | <u>September</u> 1 | | | |
| Hour Corrections Number of hours with corrections | in the month in the month | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| Hour Corrections | in the month in the month in the month | | | | | | | | | <u>September</u> 1 720 0.14% | | | |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections | in the month in the month | 0 744 0.00% | 0 672 0.00% | 0 743 0.00% | 4 720 0.56% | 3 744 0.40% | 0 720 0.00% | 0 744 0.00% | 2 744 0.27% | 1 720 0.14% | 0 744 0.00% | 0 721 0.00% | 0 744 0.00% |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections | in the month | 0 744 | 0 672 | 0 743 | 4 720 | 3 744 | 0 720 | 0 744 | 2 744 | 1 720 | 0 744 | 0 721 | 0 744 |
| Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections | in the month in the month year-to-date | 0 744 0.00% 0.00% | 0 672 0.00% 0.00% | 0 743 0.00% 0.00% | 4 720 0.56% 0.14% | 3 744 0.40% 0.19% | 0 720 0.00% 0.16% | 0 744 0.00% 0.14% | 2 744 0.27% 0.15% | 1 720 0.14% 0.15% | 0 744 0.00% 0.14% | 0 721 0.00% 0.12% | 0 744 0.00% 0.11% |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected | in the month in the month year-to-date in the month | 0 744 0.00% <u>0.00%</u> 0 | 0 672 0.00% <u>0.00%</u> 0 | 0 743 0.00% <u>0.00%</u> 0 | 4 720 0.56% <u>0.14%</u> 16 | 3 744 0.40% <u>0.19%</u> 6 | 0 720 0.00% <u>0.16%</u> 0 | 0 744 0.00% <u>0.14%</u> 0 | 2 744 0.27% <u>0.15%</u> 5 | 1 720 0.14% <u>0.15%</u> 2 | 0 744 0.00% <u>0.14%</u> 0 | 0 721 0.00% <u>0.12%</u> 0 | 0 744 0.00% <u>0.11%</u> 0 |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals | in the month in the month year-to-date in the month in the month | 0 744 0.00% 0.00% 0 9,021 | 0 672 0.00% 0.00% 0 8,112 | 0 743 0.00% <u>0.00%</u> 0 9,002 | 4 720 0.56% 0.14% 16 8,717 | 3 744 0.40% <u>0.19%</u> 6 9,033 | 0 720 0.00% 0.16% 0 8,723 | 0 744 0.00% <u>0.14%</u> 0 9,021 | 2 744 0.27% <u>0.15%</u> 5 9,071 | 1 720 0.14% 0.15% 2 8,723 | 0 744 0.00% <u>0.14%</u> 0 8,990 | 0 721 0.00% 0.12% 0 8,763 | 0 744 0.00% <u>0.11%</u> 0 8,993 |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected | in the month in the month year-to-date in the month in the month in the month | 0 744 0.00% <u>0.00%</u> 0 9,021 0.00% | 0 672 0.00% 0.00% 0 8,112 0.00% | 0 743 0.00% 0.00% 0 9,002 0.00% | 4 720 0.56% 0.14% 16 8,717 0.18% | 3 744 0.40% <u>0.19%</u> 6 9,033 0.07% | 0 720 0.00% <u>0.16%</u> 0 8,723 0.00% | 0 744 0.00% 0.14% 0 9,021 0.00% | 2 744 0.27% 0.15% 5 9,071 0.06% | 1 720 0.14% <u>0.15%</u> 2 8,723 0.02% | 0 744 0.00% <u>0.14%</u> 0 8,990 0.00% | 0 721 0.00% 0.12% 0 8,763 0.00% | 0 744 0.00% <u>0.11%</u> 0 8,993 0.00% |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected | in the month in the month year-to-date in the month in the month | 0 744 0.00% 0.00% 0 9,021 | 0 672 0.00% 0.00% 0 8,112 | 0 743 0.00% <u>0.00%</u> 0 9,002 | 4 720 0.56% 0.14% 16 8,717 | 3 744 0.40% <u>0.19%</u> 6 9,033 | 0 720 0.00% 0.16% 0 8,723 | 0 744 0.00% <u>0.14%</u> 0 9,021 | 2 744 0.27% <u>0.15%</u> 5 9,071 | 1 720 0.14% 0.15% 2 8,723 | 0 744 0.00% <u>0.14%</u> 0 8,990 | 0 721 0.00% 0.12% 0 8,763 | 0 744 0.00% <u>0.11%</u> 0 8,993 |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedHours Reserved | in the month in the month year-to-date in the month in the month in the month year-to-date | 0 744 0.00% <u>0.00%</u> 0 9,021 0.00% | 0 672 0.00% 0.00% 0 8,112 0.00% 0.00% | 0 743 0.00% 0.00% 9,002 0.00% 0.00% | 4 720 0.56% 0.14% 16 8,717 0.18% | 3 744 0.40% <u>0.19%</u> 6 9,033 0.07% 0.05% | 0 720 0.00% 0.16% 0 8,723 0.00% 0.04% | 0 744 0.00% 0.14% 0 9,021 0.00% 0.04% | 2 744 0.27% 0.15% 5 9,071 0.06% 0.04% | 1 720 0.14% 0.15% 2 8,723 0.02% 0.04% | 0 744 0.00% <u>0.14%</u> 0 8,990 0.00% 0.03% | 0 721 0.00% <u>0.12%</u> 0 8,763 0.00% 0.03% | 0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u> |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedMumber of hours reserved | in the month in the month year-to-date in the month in the month in the month year-to-date in the month | 0 744 0.00% 0.00% 9,021 0.00% 0.00% 7 | 0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 | 0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 | 4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 | 3 744 0.40% <u>0.19%</u> 6 9,033 0.07% <u>0.05%</u> 8 | 0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 | 0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 | 2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 | 1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 | 0 744 0.00% 0.14% 0 8,990 0.00% 0.00% 0.03% | 0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 | 0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u> 0 |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsMumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedNumber of hours reservedNumber of hours reservedNumber of hours | in the month in the month year-to-date in the month in the month year-to-date in the month in the month | 0 744 0.00% 0.00% 0,00% 0,00% 0.00% 7 744 | 0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0.00% | 0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 | 4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 | 3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 | 0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 | 0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 | 2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 | 1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 | 0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 | 0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 | 0 744 0.00% <u>0.11%</u> 0 8,993 0.00% 0.03% 0 744 |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedMumber of hours reserved | in the month in the month year-to-date in the month in the month in the month year-to-date in the month | 0 744 0.00% 0.00% 9,021 0.00% 0.00% 7 | 0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 | 0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 | 4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 | 3 744 0.40% <u>0.19%</u> 6 9,033 0.07% <u>0.05%</u> 8 | 0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 | 0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 | 2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 | 1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 | 0 744 0.00% 0.14% 0 8,990 0.00% 0.00% 0.03% | 0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 | 0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u> 0 |
| Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved% of hours reserved% of hours reserved% of hours reserved | in the month in the month year-to-date in the month in the month year-to-date in the month in the month | 0 744 0.00% 0.00% 0,00% 0,00% 0.00% 7 744 | 0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0.00% | 0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 | 4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 | 3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 | 0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 | 0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 | 2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 | 1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 | 0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 | 0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 | 0 744 0.00% <u>0.11%</u> 0 8,993 0.00% 0.03% 0 744 |
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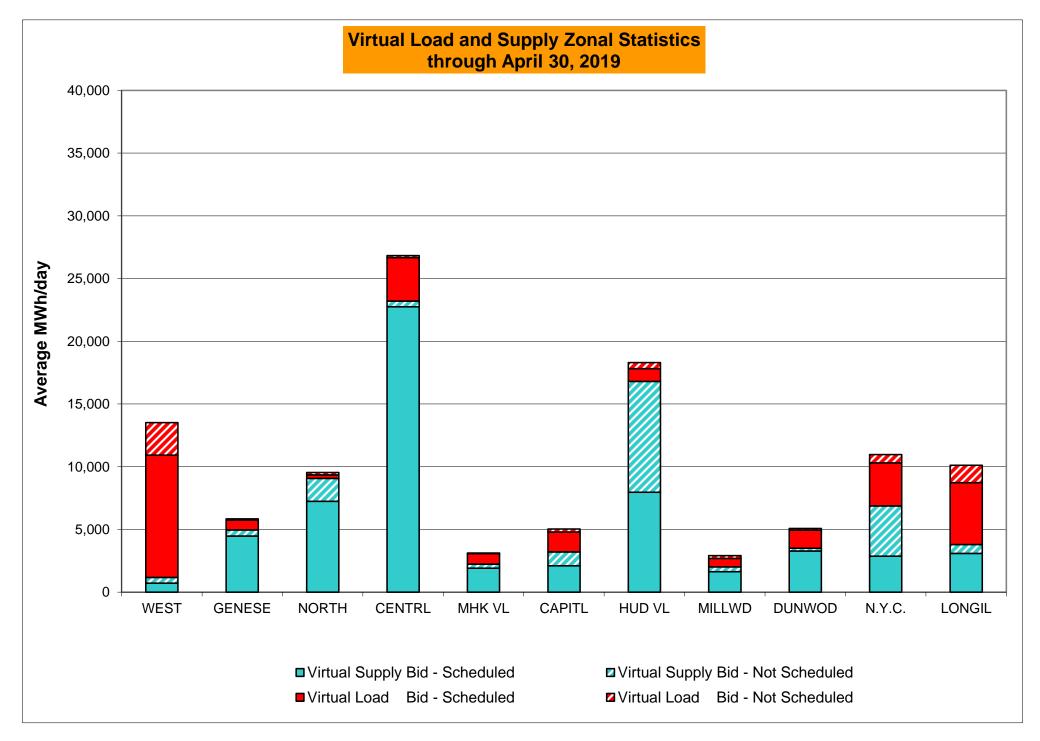
*Calendar days from reservation date; for June 2018 forward, business days from market date

May/June 2017 Hours Reserved data has been updated for the July 2017 Monthly Market Operations Report.



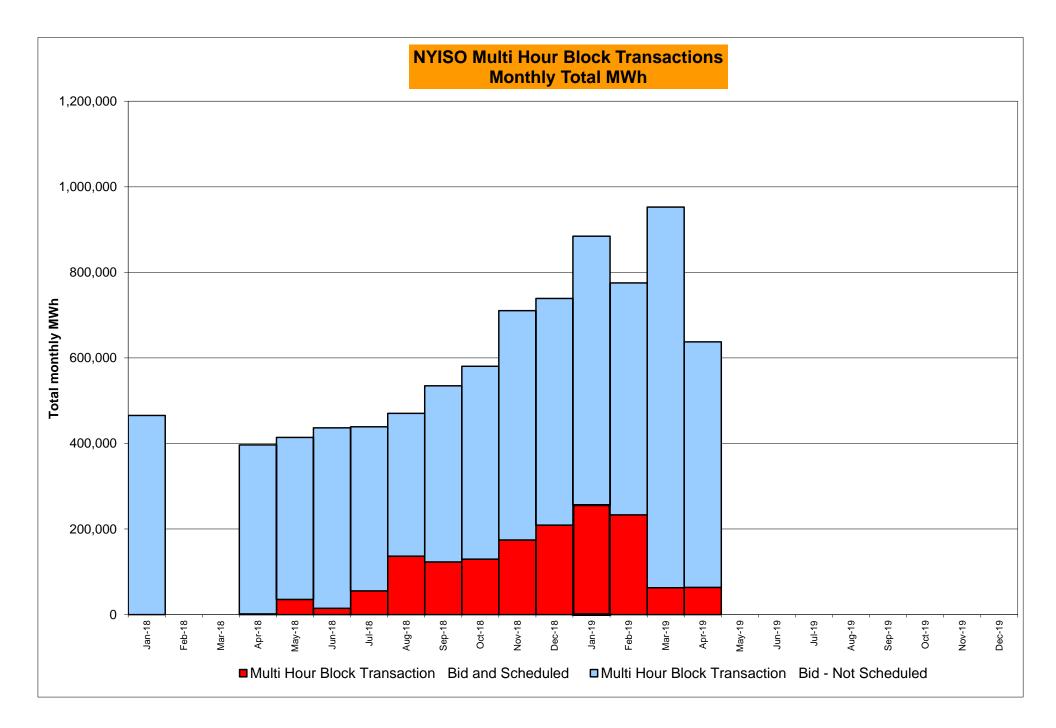
*Calendar days from reservation date; for June 2018 forward, business days from market date

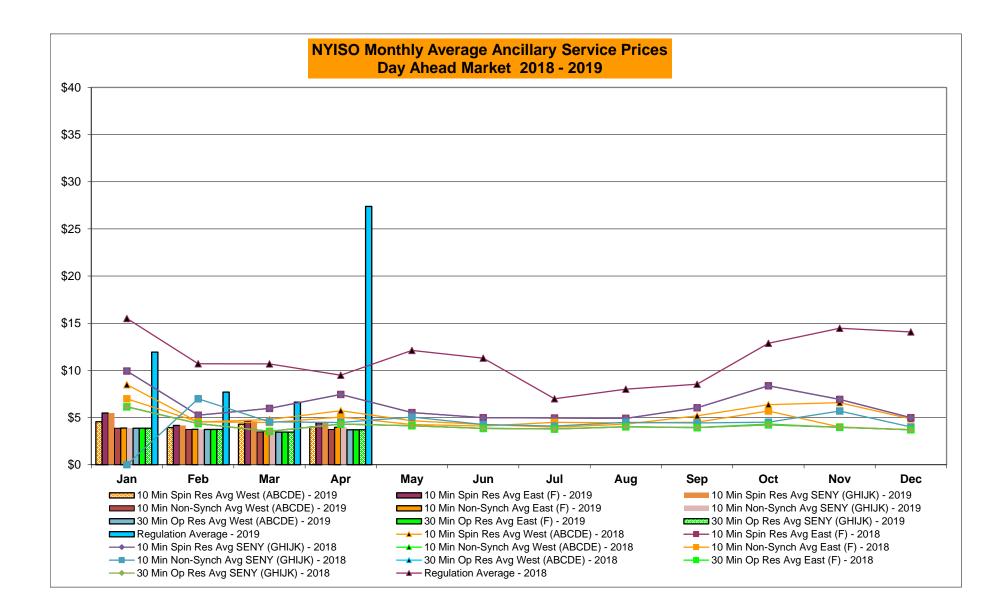


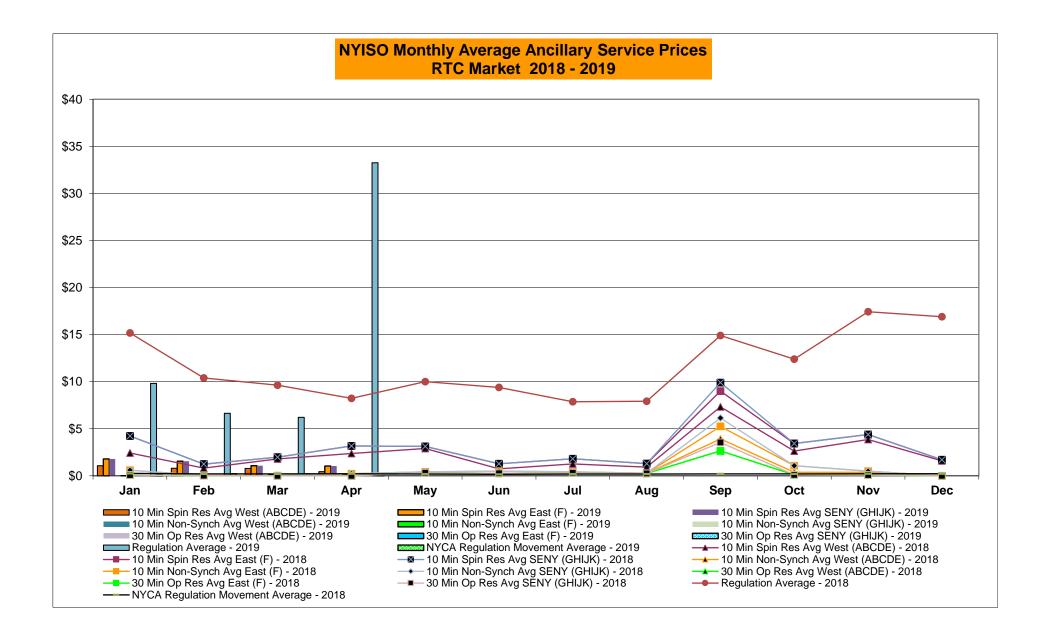


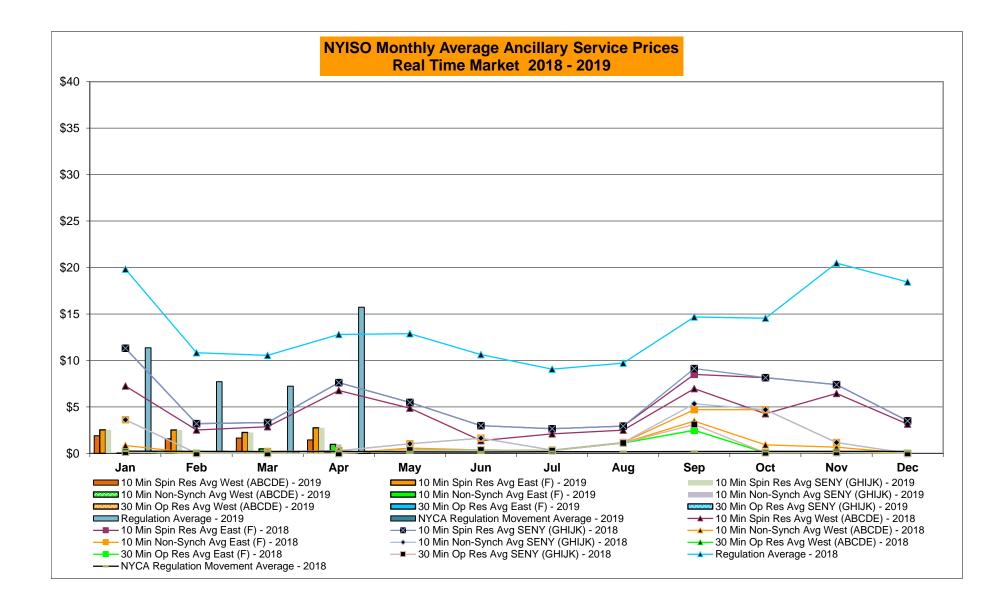
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2019

| | | Virtual L | oad Bid | Virtual Su | upply Bid | | | Virtual L | .oad Bid | Virtual Su | upply Bid | | | Virtual L | | Virtual S | upply Bid |
|--------|------------------|------------|-----------|----------------|------------|--------|------------------|-----------|------------|----------------|-----------|--------|------------------|-----------|----------------|----------------|-----------|
| | | | Not | | Not | | | | Not | | Not | | | | Not | | Not |
| Zone | | Scheduled | Scheduled | Scheduled | Scheduled | Zone | Date | Scheduled | | | Scheduled | Zone | Date | | Scheduled | | Scheduled |
| WEST | Jan-19 | 9,007 | 5,211 | 1,609 | 797 | MHK VL | Jan-19 | | 117 | 1,965 | | DUNWOD | Jan-19 | | 798 | 2,651 | |
| | Feb-19 | 6,628 | | | 921 | | Feb-19 | | | 1,709 | | | Feb-19 | , | 494 | 3,273 | |
| | Mar-19 | 5,264 | | | 569 | | Mar-19 | , | 113 | 2,208 | | | Mar-19 | | 471 | 3,571 | |
| | Apr-19 | 9,744 | 2,589 | 721 | 461 | | Apr-19 | | 43 | 1,904 | 331 | | Apr-19 | | 125 | 3,278 | 228 |
| | May-19 Jun-19 | | | | | | May-19 Jun-19 | | | | | | May-19 Jun-19 | | | | |
| | Jul-19 | | | | | | Jul-19 | | | | | | Jul-19 | | | | |
| | Aug-19 | | | | | | Aug-19 | | | | | | Aug-19 | | | | |
| | Sep-19 | | | | | | Sep-19 | | | | | | Sep-19 | | | | |
| | Oct-19 | | | | | | Oct-19 | | | | | | Oct-19 | | | | |
| | Nov-19 | | | | | | Nov-19 | | | | | | Nov-19 | | | | |
| | Dec-19 | | | | | | Dec-19 | | | | | | Dec-19 | | | | |
| CENESE | lon 10 | F07 | 150 | 2 500 | 520 | CADITI | lon 10 | 2.042 | 060 | 1 550 | 1 404 | NYC | lon 10 | 2 665 | 2.061 | 2 500 | 1 266 |
| GENESE | Jan-19 | 527 | 153 66 | | 529 520 | CAPITL | Jan-19 | | 962 485 | 1,550 | | N.Y.C. | Jan-19 | , | 3,061 | 2,599 2,248 | |
| | Feb-19 Mar-19 | 896 987 | 241 | 3,776 3,224 | 432 | | Feb-19 Mar-19 | | 383 | 1,851 2,004 | | | Feb-19 Mar-19 | , | 2,025 1,774 | 2,248 | , |
| | Apr-19 | 808 | | | 432 | | Apr-19 | | 232 | 2,004 | | | Apr-19 | | 656 | 2,432 | |
| | May-19 | 000 | 00 | | | | May-19 | | 202 | 2,102 | 1,111 | | May-19 | | 000 | 2,000 | 4,012 |
| | Jun-19 | | | | | | Jun-19 | | | | | | Jun-19 | | | | |
| | Jul-19 | | | | | | Jul-19 | | | | | | Jul-19 | | | | |
| | Aug-19 | | | | | | Aug-19 | | | | | | Aug-19 | | | | |
| | Sep-19 | | | | | | Sep-19 | | | | | | Sep-19 | | | | |
| | Oct-19 | | | | | | Oct-19 | | | | | | Oct-19 | | | | |
| | Nov-19 | | | | | | Nov-19 | | | | | | Nov-19 | | | | |
| | Dec-19 | | | | | | Dec-19 | | | | | | Dec-19 | | | | |
| NORTH | Jan-19 | 484 | 540 | 6,406 | 1,553 | HUD VL | Jan-19 | 856 | 980 | 9,176 | 7,130 | LONGIL | Jan-19 | 3,362 | 2,135 | 3,091 | 1,056 |
| | Feb-19 | 431 | 359 | | 1,743 | | Feb-19 | | 843 | 7,408 | | | Feb-19 | | 1,297 | 3,446 | |
| | Mar-19 | 349 | | | 1,845 | | Mar-19 | | | 8,787 | | | Mar-19 | , | 1,198 | 3,372 | |
| | Apr-19 | 284 | | 7,243 | 1,823 | | Apr-19 | 1,011 | 487 | 7,962 | 8,845 | | Apr-19 | 4,934 | 1,386 | 3,096 | |
| | May-19 | | | | | | May-19 | | | | | | May-19 | | | | |
| | Jun-19 | | | | | | Jun-19 | | | | | | Jun-19 | | | | |
| | Jul-19 | | | | | | Jul-19 | | | | | | Jul-19 | | | | |
| | Aug-19 | | | | | | Aug-19 | | | | | | Aug-19 | | | | |
| | Sep-19 | | | | | | Sep-19 | | | | | | Sep-19 | | | | |
| | Oct-19 | | | | | | Oct-19 | | | | | | Oct-19 | | | | |
| | Nov-19 | | | | | | Nov-19 | | | | | | Nov-19 | | | | |
| | Dec-19 | | | | | | Dec-19 | | | | | | Dec-19 | | | | |
| CENTRL | Jan-19 | 3,795 | 374 | 30,145 | 507 | MILLWD | Jan-19 | 405 | 386 | 2,051 | 169 | NYISO | Jan-19 | 27,683 | 14,720 | 64,802 | 15,203 |
| | Feb-19 | 3,059 | | 29,111 | 609 | | Feb-19 | 540 | | 1,311 | 247 | | Feb-19 | | 7,905 | 62,089 | 17,582 |
| | Mar-19 | 3,411 | 332 | | 542 | | Mar-19 | | | 1,404 | | | Mar-19 | | 8,993 | 60,159 | |
| | Apr-19 | 3,475 | 150 | 22,748 | 453 | | Apr-19 | | 215 | 1,636 | 371 | | Apr-19 | | 6,153 | 58,038 | 18,807 |
| | May-19 | | | | | | May-19 | | | | | | May-19 | | | | |
| | Jun-19 | | | | | _ | Jun-19 | | | | | | Jun-19 | | | | |
| | Jul-19 | | | | | | Jul-19 | | | | | | Jul-19 | | | | |
| | Aug-19 | | | | | | Aug-19 | | | | | | Aug-19 | | | | |
| | Sep-19 | | | | | | Sep-19 | | | | | | Sep-19 | | | | |
| | Oct-19 | | | | | | Oct-19 | | | | | | Oct-19 | | | | |
| | Nov-19 Dec-19 | | | | | | Nov-19 Dec-19 | | | | | | Nov-19 Dec-19 | | | | |









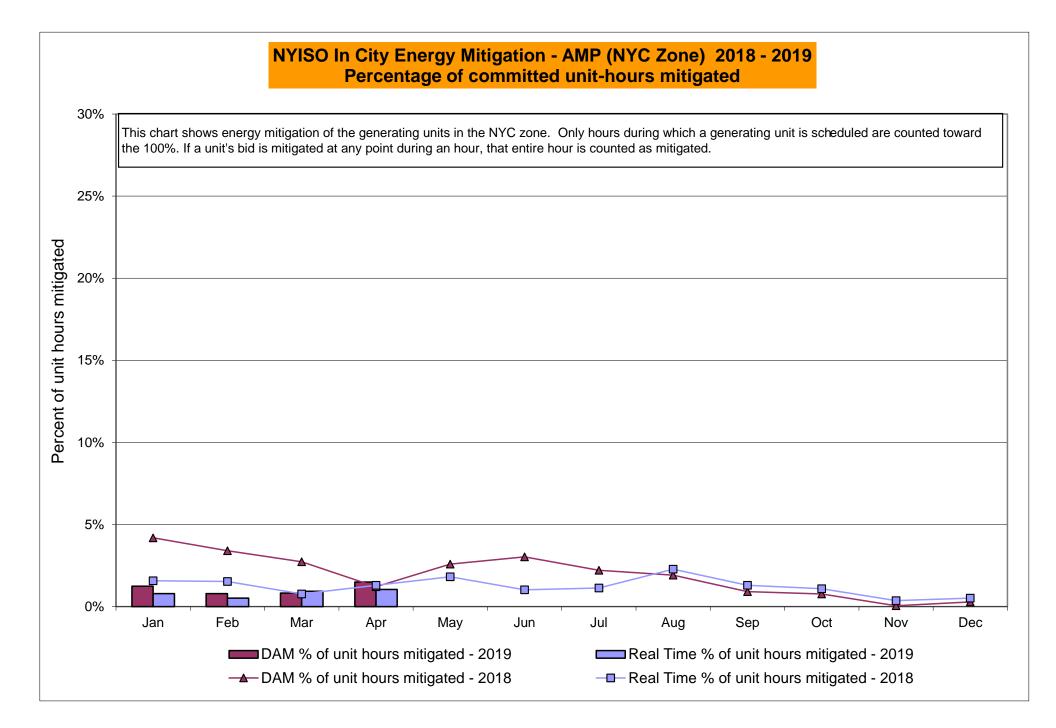
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

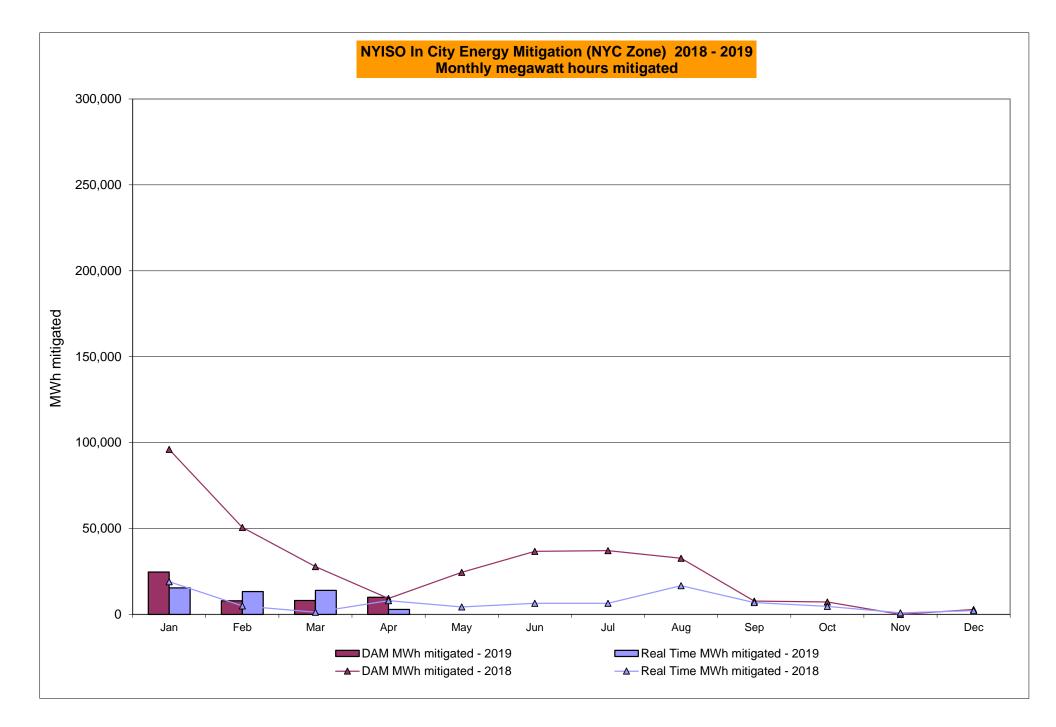
| | | | | | Statistics | | |
|--|--|--|--|--|--|---|---|
| 2019 | January | February | March | <u>April</u> | May | June | <u>July</u> |
| Day Ahead Market | <u>•••••••</u> | <u> </u> | | <u></u> | <u></u> | <u></u> | <u>•••••</u> |
| 10 Min Spin SENY (GHIJK) | 5.47 | 4.17 | 4.61 | 4.46 | | | |
| 10 Min Spin East (F) | 5.47 | 4.17 | 4.61 | 4.46 | | | |
| 10 Min Spin West (ABCDE) | 4.56 | 3.94 | 4.30 | 4.01 | | | |
| 10 Min Non Synch SENY (GHIJK) | 3.88 | 3.75 | 3.57 | 3.96 | | | |
| 10 Min Non Synch East (F) | 3.88 | 3.75 | 3.57 | 3.96 | | | |
| 10 Min Non Synch West (ABCDE) | 3.86 | 3.74 | 3.47 | 3.73 | | | |
| 30 Min SENY (GHIJK) | 3.86 | 3.74 | 3.46 | 3.71 | | | |
| | | | | | | | |
| 30 Min East (F) | 3.86 | 3.74 | 3.46 | 3.71 | | | |
| 30 Min West (ABCDE) | 3.86 | 3.74 | 3.46 | 3.71 | | | |
| Regulation | 11.94 | 7.69 | 6.62 | 27.38 | | | |
| RTC Market | | | | | | | |
| 10 Min Spin SENY (GHIJK) | 1.80 | 1.55 | 1.08 | 1.04 | | | |
| 10 Min Spin East (F) | 1.80 | 1.55 | 1.08 | 1.04 | | | |
| 10 Min Spin West (ABCDE) | 1.08 | 0.80 | 0.79 | 0.44 | | | |
| 10 Min Non Synch SENY (GHIJK) | 0.01 | 0.08 | 0.11 | 0.13 | | | |
| 10 Min Non Synch East (F) | 0.01 | 0.08 | 0.11 | 0.13 | | | |
| 10 Min Non Synch West (ABCDE) | 0.00 | 0.00 | 0.01 | 0.00 | | | |
| | | | | | | | |
| 30 Min SENY (GHIJK) | 0.00 | 0.01 | 0.01 | 0.00 | | | |
| 30 Min East (F) | 0.00 | 0.01 | 0.01 | 0.00 | | | |
| 30 Min West (ABCDE) | 0.00 | 0.01 | 0.01 | 0.00 | | | |
| Regulation | 9.81 | 6.64 | 6.21 | 33.26 | | | |
| NYCA Regulation Movement | 0.23 | 0.22 | 0.21 | 0.25 | | | |
| <u>Real Time Market</u> | | | | | | | |
| 10 Min Spin SENY (GHIJK) | 2.53 | 2.51 | 2.24 | 2.75 | | | |
| 10 Min Spin East (F) | 2.53 | 2.51 | 2.24 | 2.75 | | | |
| 10 Min Spin West (ABCDE) | 1.89 | 1.57 | 1.64 | 1.45 | | | |
| 10 Min Non Synch SENY (GHIJK) | | 0.18 | 0.48 | | | | |
| | 0.03 | | | 0.96 | | | |
| 10 Min Non Synch East (F) | 0.03 | 0.18 | 0.48 | 0.96 | | | |
| 10 Min Non Synch West (ABCDE) | 0.00 | 0.01 | 0.09 | 0.17 | | | |
| 30 Min SENY (GHIJK) | 0.00 | 0.01 | 0.03 | 0.00 | | | |
| 30 Min East (F) | 0.00 | 0.01 | 0.03 | 0.00 | | | |
| 30 Min West (ABCDE) | 0.00 | 0.01 | 0.03 | 0.00 | | | |
| Regulation | 11.36 | 7.72 | 7.23 | 15.73 | | | |
| NYCA Regulation Movement | 0.22 | 0.22 | 0.20 | 0.25 | | | |
| | | | | | | | |
| <u>2018</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> |
| Day Ahead Market | | | | | | | |
| 10 Min Spin SENY (GHIJK) | 9.93 | 5.24 | 5.97 | 7.45 | 5.52 | 4.98 | 4.95 |
| 10 Min Spin East (F) | 9.93 | 5.24 | 5.97 | 7.45 | 5.52 | 4.98 | 4.95 |
| 10 Min Spin West (ABCDE) | 8.49 | 4.53 | 4.78 | 5.73 | 4.65 | 4.26 | 3.98 |
| 10 Min Non Synch SENY (GHIJK) | 0.00 | | 4.48 | 5.05 | | | |
| | 6.99 | 4.54 | 4.40 | 0.00 | 4.26 | 4.09 | 4.49 |
| 10 Min Non Synch East (F) | | | | | | | |
| 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) | 6.99 | 4.54 | 4.48 | 5.05 | 4.26 | 4.09 | 4.49 |
| 10 Min Non Synch West (ABCDE) | 6.99 6.15 | 4.54 4.36 | 4.48 3.54 | 5.05 4.31 | 4.26 4.13 | 4.09 3.85 | 4.49 3.80 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) | 6.99 6.15 6.14 | 4.54 4.36 4.36 | 4.48 3.54 3.54 | 5.05 4.31 4.31 | 4.26 4.13 4.13 | 4.09 3.85 3.85 | 4.49 3.80 3.79 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) | 6.99 6.15 6.14 6.14 | 4.54 4.36 4.36 4.36 | 4.48 3.54 3.54 3.54 | 5.05 4.31 4.31 4.31 | 4.26 4.13 4.13 4.13 | 4.09 3.85 3.85 3.85 | 4.49 3.80 3.79 3.79 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) | 6.99 6.15 6.14 6.14 6.14 | 4.54 4.36 4.36 4.36 4.36 | 4.48 3.54 3.54 3.54 3.54 | 5.05 4.31 4.31 4.31 4.31 | 4.26 4.13 4.13 4.13 4.13 | 4.09 3.85 3.85 3.85 3.85 3.85 | 4.49 3.80 3.79 3.79 3.79 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation | 6.99 6.15 6.14 6.14 | 4.54 4.36 4.36 4.36 | 4.48 3.54 3.54 3.54 | 5.05 4.31 4.31 4.31 | 4.26 4.13 4.13 4.13 | 4.09 3.85 3.85 3.85 | 4.49 3.80 3.79 3.79 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> | 6.99 6.15 6.14 6.14 6.14 15.51 | 4.54 4.36 4.36 4.36 4.36 10.70 | 4.48 3.54 3.54 3.54 3.54 10.68 | 5.05 4.31 4.31 4.31 4.31 9.49 | 4.26 4.13 4.13 4.13 4.13 12.11 | 4.09 3.85 3.85 3.85 3.85 3.85 11.30 | 4.49 3.80 3.79 3.79 3.79 6.99 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 | 4.54 4.36 4.36 4.36 10.70 1.24 | 4.48 3.54 3.54 3.54 3.54 10.68 1.98 | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 | 4.09 3.85 3.85 3.85 3.85 11.30 | 4.49 3.80 3.79 3.79 3.79 6.99 1.81 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 | 4.54 4.36 4.36 4.36 10.70 1.24 1.24 | 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 | 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 | 4.54 4.36 4.36 4.36 10.70 1.24 | 4.48 3.54 3.54 3.54 3.54 10.68 1.98 | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 | 4.09 3.85 3.85 3.85 3.85 11.30 | 4.49 3.80 3.79 3.79 3.79 6.99 1.81 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 | 4.54 4.36 4.36 4.36 10.70 1.24 1.24 | 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 | 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 | 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 | 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 | 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 | 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 | 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 | 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 | 4.48 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 | 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 | 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 | 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 | 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 | 4.48 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 | 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.22 0.00 | 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 | 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ $\begin{array}{c} 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | 4.48 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 | 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 | 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 | 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | 4.48 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 | 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.22 0.00 0.00 0.00 0.00 | 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 | 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$ | 5.05 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.22 0.00 0.00 0.00 0.00 0.00 | $\begin{array}{c} 4.26\\ 4.13\\ 4.13\\ 4.13\\ 1.13\\ 12.11\\ \end{array}$ | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\end{array}$ |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.59 0.08 0.08 0.08 0.08 0.08 15.17 | 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.03 0.02 0.02 0.02 0.02 0.0 | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.63\end{array}$ | 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.22 0.00 0.00 0.00 0.00 0.00 8.22 | 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ \end{array}$ |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$ | 5.05 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.22 0.00 0.00 0.00 0.00 0.00 | $\begin{array}{c} 4.26\\ 4.13\\ 4.13\\ 4.13\\ 1.13\\ 12.11\\ \end{array}$ | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\end{array}$ |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.63\\ 0.20\\ \end{array}$ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 8.22 0.22 0.22 | 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 0.16 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) | 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26 | 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 | 4.48 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 | 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 | 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 9.39 0.16 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | 4.54 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 0.02 0.0 | 4.48 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 | $\begin{array}{c} 4.26\\ 4.13\\ 4.13\\ 4.13\\ 12.11\\ \end{array}$ | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 1.28 0.74 0.49 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ |
| 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin East (F) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | 4.48 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ \end{array}$ |
| 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Spin West (ÅBCDE) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.331\\ 3.31\\ 3.31\\ 3.31\\ 2.86\\ 0.19\end{array}$ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 | $\begin{array}{c} 4.26\\ 4.13\\ 4.13\\ 4.13\\ 4.13\\ 12.11\\ \end{array}$ | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ \end{array}$ |
| 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Spin West (ÅBCDE) 10 Min Spin Kest (ÅBCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.01\\ 0.00\\ 0$ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 0.28 0.28 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.33 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.26 1.63 1.63 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.35\\ 0.35\\ \end{array}$ |
| 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Spin West (ÅBCDE) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.331\\ 3.31\\ 3.31\\ 3.31\\ 2.86\\ 0.19\end{array}$ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 | $\begin{array}{c} 4.26\\ 4.13\\ 4.13\\ 4.13\\ 4.13\\ 12.11\\ \end{array}$ | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ \end{array}$ |
| 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Spin West (ÅBCDE) 10 Min Spin Kest (ÅBCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.01\\ 0.00\\ 0$ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 0.28 0.28 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.26 1.63 1.63 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.35\\ 0.35\\ \end{array}$ |
| 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.10\\ 0.19\\ 0.19\\ 0.00\\ \end{array}$ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 0.28 0.00 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 5.48 4.86 1.03 1.03 0.57 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.39 0.16 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.29\\ \end{array}$ |
| 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 10.70\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.10\\ 0.19\\ 0.19\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.00 0.02 0.28 0.28 0.00 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 5.48 4.86 1.03 1.03 0.57 0.37 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.39 0.16 1.63 1.63 0.37 0.37 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.32\\ 0.29\\ 0.$ |
| 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin Kest (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Xest (F) 30 Min SenY (GHIJK) 30 Min East (F) 30 Min SenY (ABCDE) | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 1.24\\ 1.24\\ 1.24\\ 0.82\\ 0.03\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 10.40\\ 0.21\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.63\\ 0.20\\ \end{array}$ $\begin{array}{c} 3.31\\ 3.31\\ 2.86\\ 0.19\\ 0.19\\ 0.00$ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 0.28 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37 0.37 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.37 0.37 0.37 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.29\\$ |
| 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ÅBCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ÅBCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ÅBCDE) 10 Min Spin West (ÅBCDE) 10 Min Spin West (ÅBCDE) 10 Min Spin West (ÅBCDE) 10 Min Spin Kest (ÅBCDE) 10 Min Spin West (ÅBCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ÅBCDE) 30 Min SENY (GHIJK) 30 Mi | $\begin{array}{c} 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$ | $\begin{array}{c} 4.54\\ 4.36\\ 4.36\\ 4.36\\ 1.24\\ 1.24\\ 1.24\\ 0.82\\ 0.03\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 10.40\\ 0.21\\ \end{array}$ | $\begin{array}{c} 4.48\\ 3.54\\ 3.54\\ 3.54\\ 3.54\\ 10.68\\ \end{array}$ $\begin{array}{c} 1.98\\ 1.98\\ 1.79\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.331\\ 3.31\\ 3.31\\ 2.86\\ 0.19\\ 0.19\\ 0.19\\ 0.00\\ $ | 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 7.62 7.62 7.62 6.77 0.28 0.28 0.00 | 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37 | 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.37 0.37 0.37 | $\begin{array}{c} 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.29\\$ |

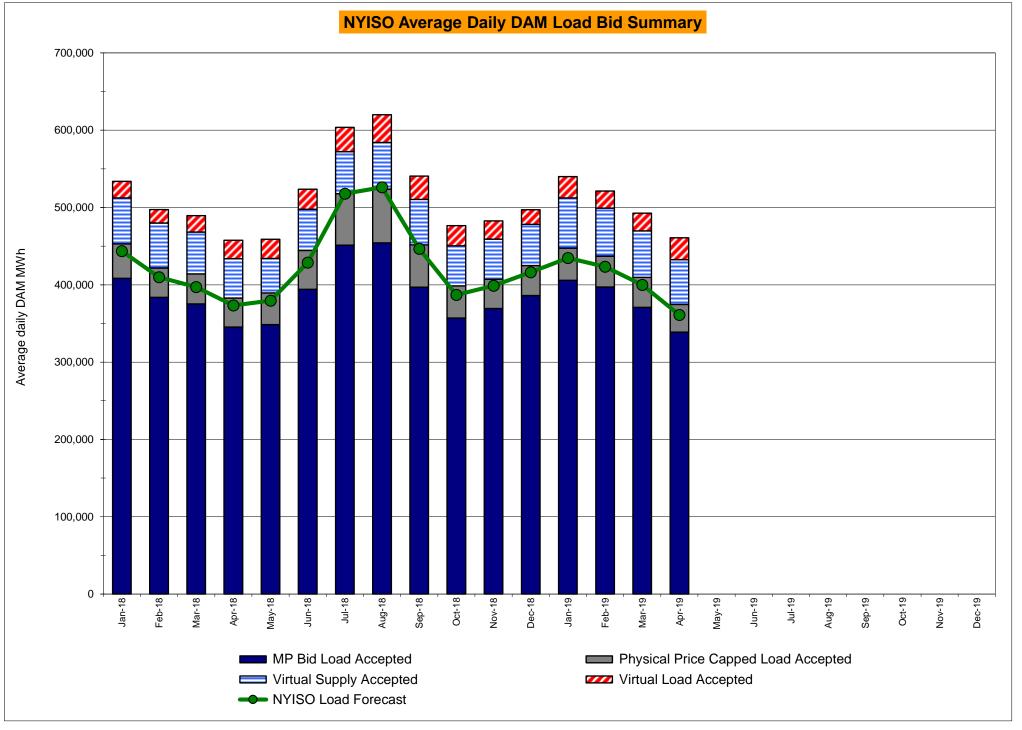
<u>August</u> <u>September</u>

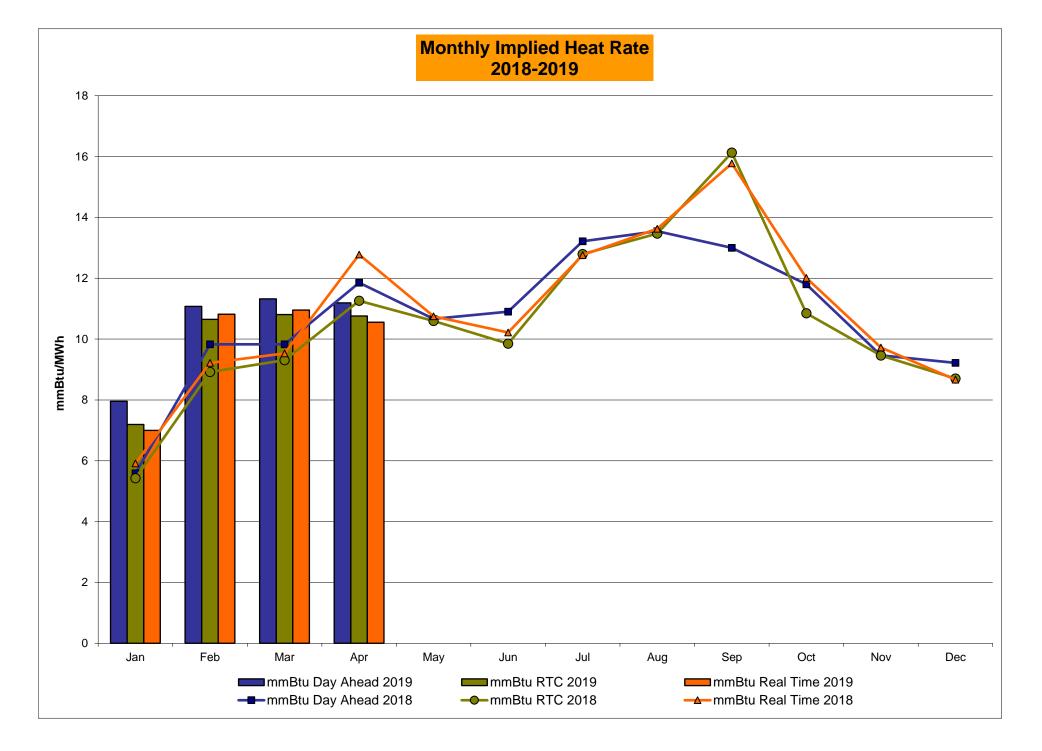
October November December

| August | September | October | November | December |
|--------|-----------|---------|----------|----------|
| ragaor | | 0010001 | | December |
| 4.91 | 6.04 | 8.37 | 6.93 | 4.99 |
| 4.91 | 6.04 | 8.37 | 6.93 | 4.99 |
| 4.30 | 5.18 | 6.36 | 6.57 | 4.86 |
| 4.43 | 4.51 | 5.69 | 4.00 | 3.71 |
| 4.43 | 4.51 | 5.69 | 4.00 | 3.71 |
| 4.03 | 3.95 | 4.31 | 3.97 | 3.70 |
| 4.02 | 3.94 | 4.22 | 3.97 | 3.70 |
| 4.02 | 3.94 | 4.22 | 3.97 | 3.70 |
| 4.02 | 3.94 | 4.22 | 3.97 | 3.70 |
| 8.00 | 8.54 | 12.88 | 14.47 | 14.07 |
| | | | | |
| 1.29 | 9.90 | 3.43 | 4.39 | 1.71 |
| 1.29 | 9.00 | 3.43 | 4.39 | 1.71 |
| 0.93 | 7.33 | 2.63 | 3.85 | 1.58 |
| 0.27 | 6.14 | 1.07 | 0.50 | 0.00 |
| 0.27 | 5.25 | 1.07 | 0.50 | 0.00 |
| 0.25 | 3.92 | 0.38 | 0.38 | 0.00 |
| 0.25 | 3.55 | 0.11 | 0.09 | 0.00 |
| 0.25 | 2.65 | 0.11 | 0.09 | 0.00 |
| 0.25 | 2.65 | 0.11 | 0.09 | 0.00 |
| 7.92 | 14.90 | 12.40 | 17.43 | 16.90 |
| 0.19 | 0.20 | 0.21 | 0.22 | 0.22 |
| | | | | |
| 2.93 | 9.13 | 8.14 | 7.39 | 3.49 |
| 2.93 | 8.50 | 8.14 | 7.39 | 3.49 |
| 2.50 | 6.96 | 4.26 | 6.45 | 3.15 |
| 1.16 | 5.33 | 4.70 | 1.16 | 0.00 |
| 1.16 | 4.70 | 4.70 | 1.16 | 0.00 |
| 1.12 | 3.47 | 0.92 | 0.67 | 0.00 |
| 1.12 | 3.11 | 0.06 | 0.10 | 0.00 |
| 1.12 | 2.48 | 0.06 | 0.10 | 0.00 |
| 1.12 | 2.48 | 0.06 | 0.10 | 0.00 |
| 9.71 | 14.67 | 14.54 | 20.48 | 18.44 |
| 0.18 | 0.20 | 0.21 | 0.22 | 0.21 |



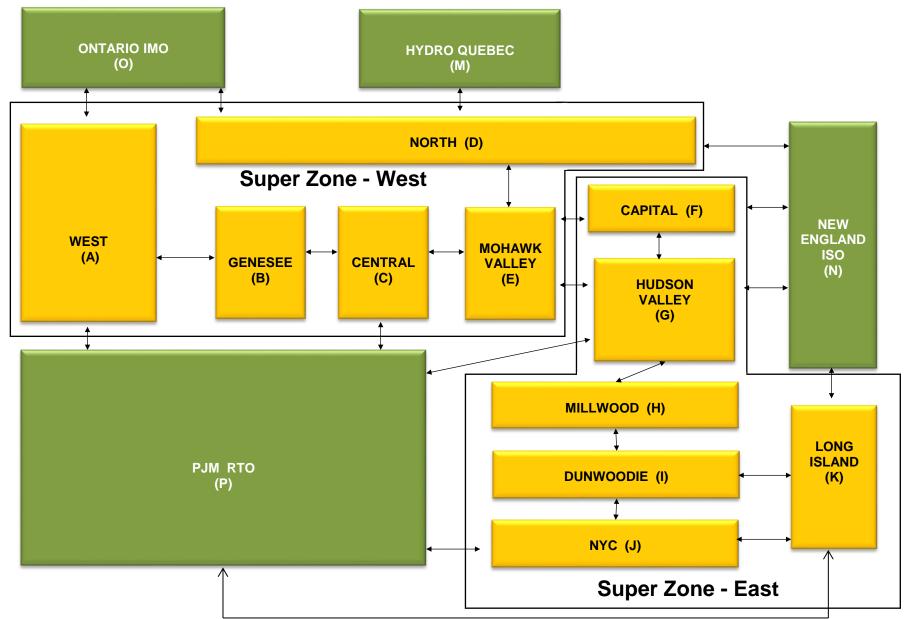






Market Mitigation and Analysis Prepared: 5/8/2019 11:47 AM

NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 5/8/2019 11:48 AM

Billing Codes for Chart C

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

The Mission of the New York Independent System Operator is to:

- Serve the public interest and
- Provide benefit to stakeholders 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 policy makers, stakeholders and investors in the power system





