

Monthly Report

A Report by the
New York Independent System Operator

August 2023

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August 2023 Report

Operations & Reliability Department New York Independent System Operator

Prepared by NYISO Operations Analysis and Services, based on settlements initial invoice data collected on or before September 9, 2023.

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August 2023 Operations Performance Highlights

| Monthly Peak Load | Monthly Minimum Load | Summer 2023 Peak | All-time Summer Peak |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 08/21/2023 HB 17 24,917 MW | 08/20/2023 HB 04 13,510 MW | 07/28/2023 HB 17 28,735 MW | 07/19/2013 HB 16 33,956 MW |

- 0.0 hours of Thunderstorm Alerts were declared
- 14.7 hours of NERC TLR level 3 curtailment

Installed Wind, Solar and Energy Storage Resource Nameplate Values:

| Land-Based Wind | Behind-the-Meter Solar | Front-of-the-Meter Solar | Energy Storage Resource (ESR) |
|-----------------|---------------------------|-----------------------------|----------------------------------|
| 2,521 MW | 4,826 MW | 174 MW | 43 MW |

Estimated production cost savings associated with the Broader Regional Market initiatives:

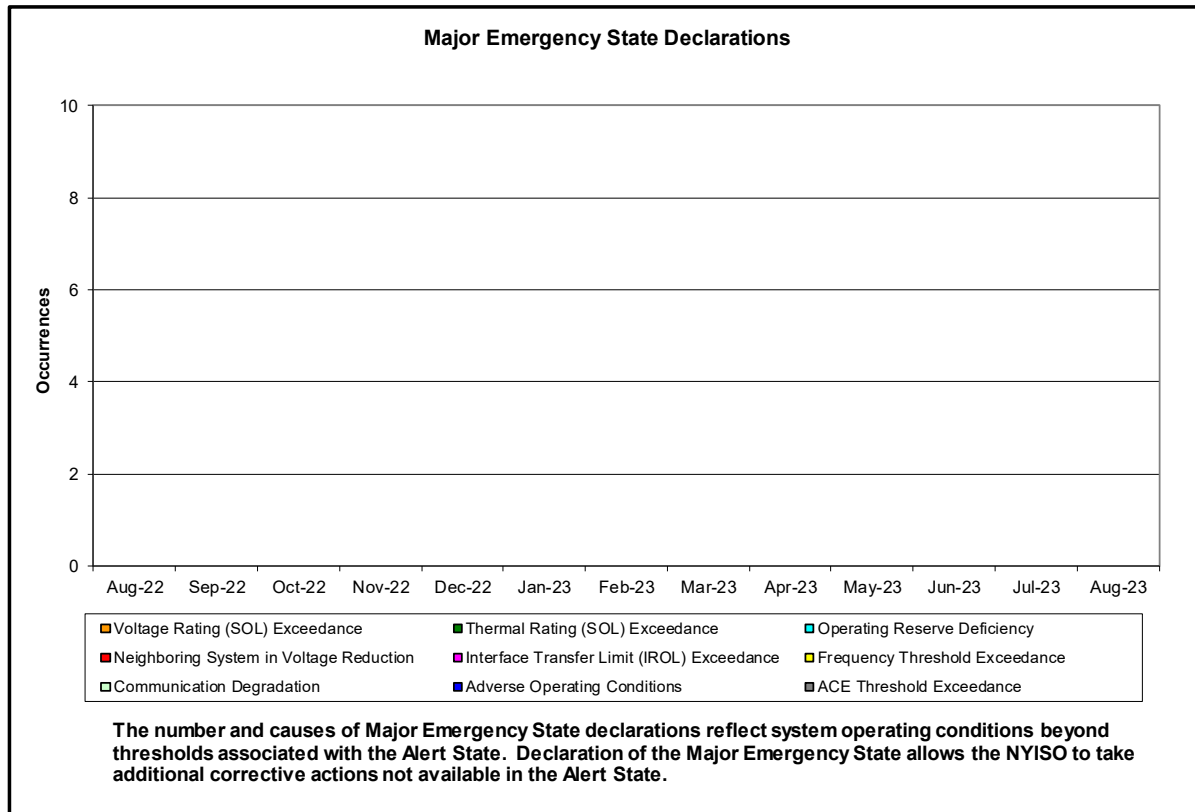
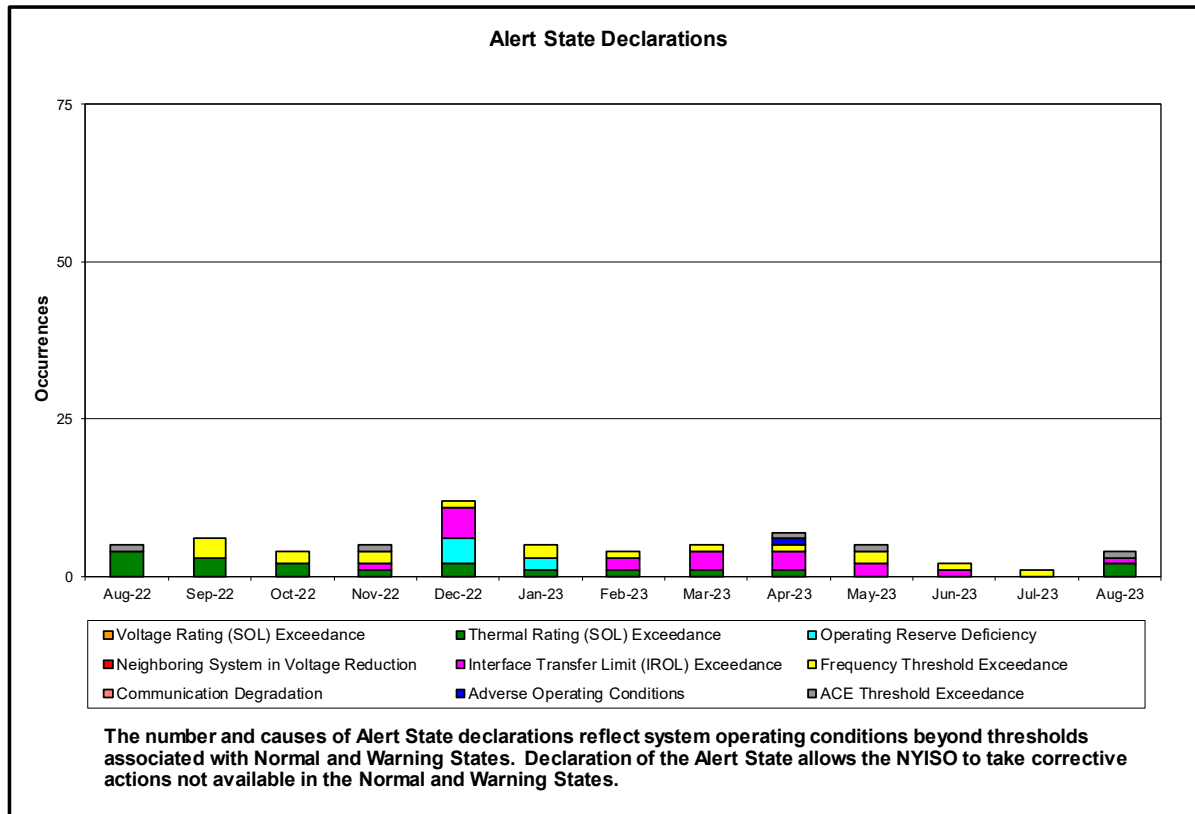
| | Current Month Value (\$M) | Year-to-Date Value (\$M) |
|--|------------------------------|-----------------------------|
| NY Savings from PJM-NY Congestion Coordination | (\$0.40) | \$11.62 |
| NY Savings from PJM-NY Coordinated Transaction Scheduling | (\$0.12) | (\$0.83) |
| NY Savings from NE-NY Coordinated Transaction Scheduling | \$0.00 | (\$1.48) |
| Total NY Savings | (\$0.52) | \$9.32 |
| | | |
| Regional Savings from PJM-NY Coordinated Transaction Scheduling | \$0.25 | \$4.31 |
| Regional Savings from NE-NY Coordinated Transaction Scheduling | \$0.09 | \$0.67 |
| Total Regional Savings | \$0.33 | \$4.98 |

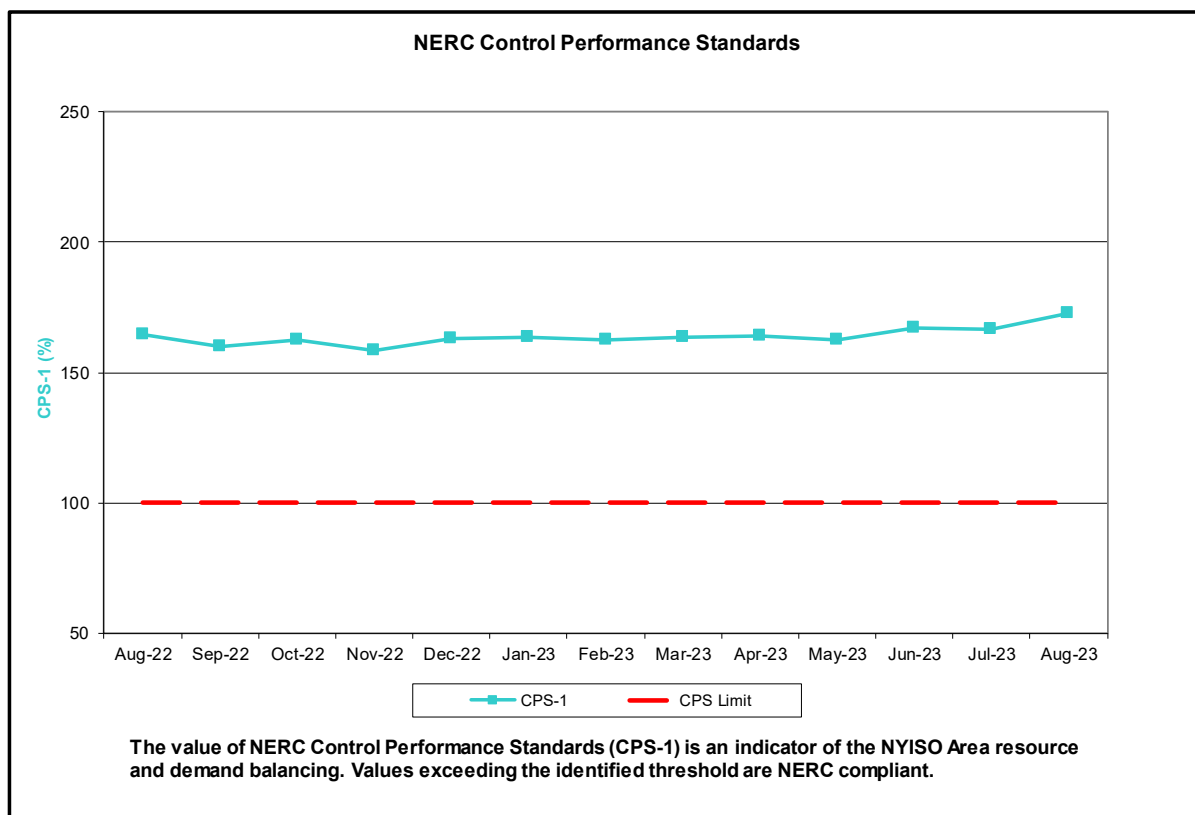
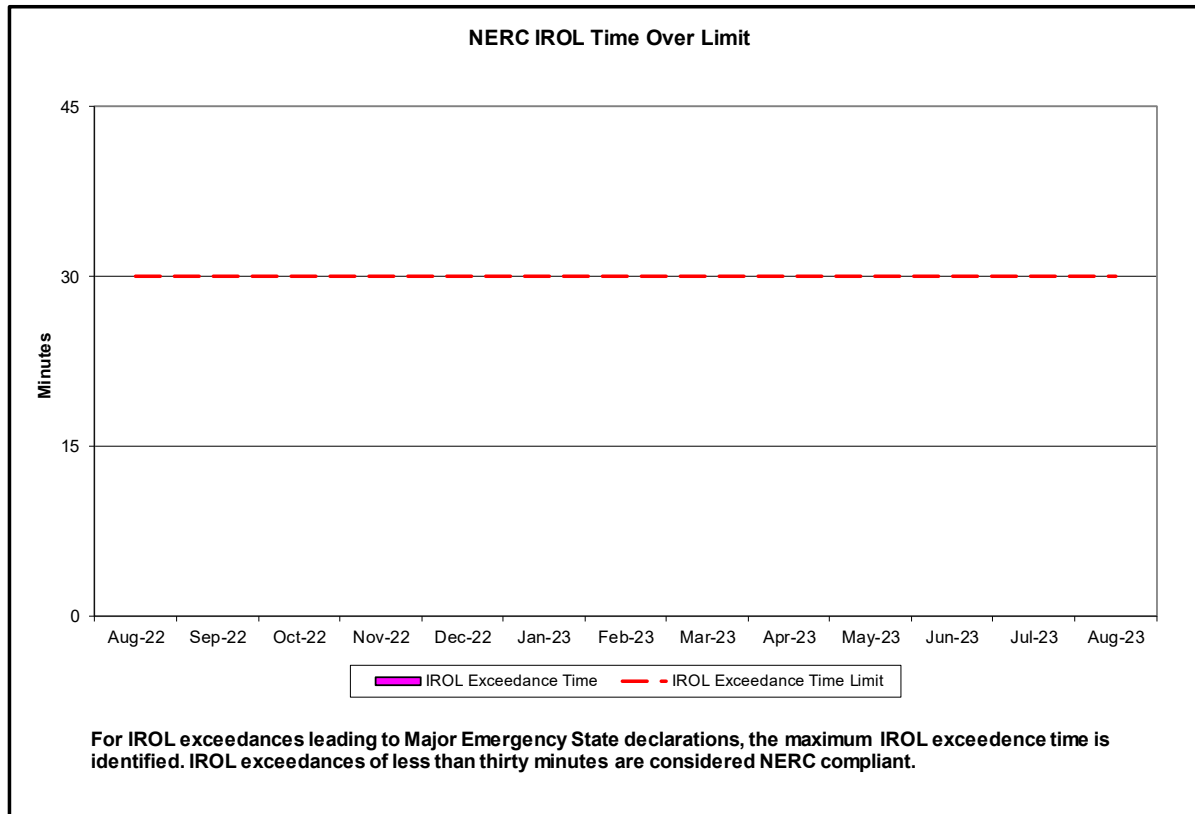
- Statewide uplift cost monthly average was (\$0.03)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

| Spot Auction Price Results | NYCA | Lower Hudson Valley Zones | New York City Zone | Long Island Zone |
|----------------------------|----------|---------------------------|--------------------|------------------|
| September 2023 Spot Price | \$5.82 | \$5.82 | \$19.46 | \$5.82 |
| August 2023 Spot Price | \$6.01 | \$6.01 | \$19.46 | \$6.01 |
| Delta | (\$0.19) | (\$0.19) | \$0.00 | (\$0.19) |

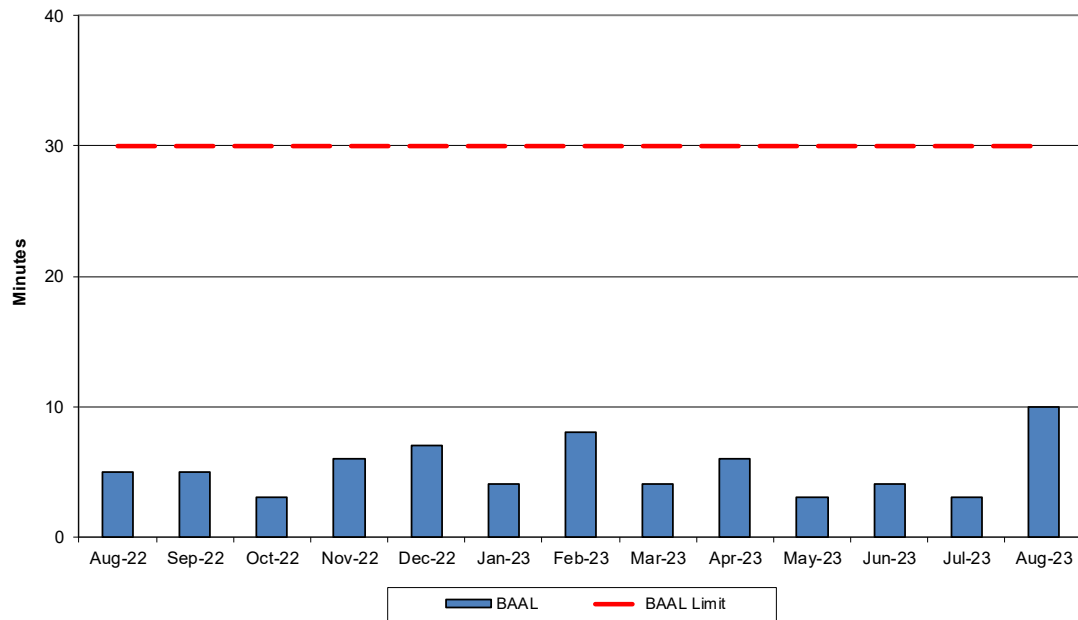
- Price change was driven by an increase in Generation UCAP.

Reliability Performance Metrics



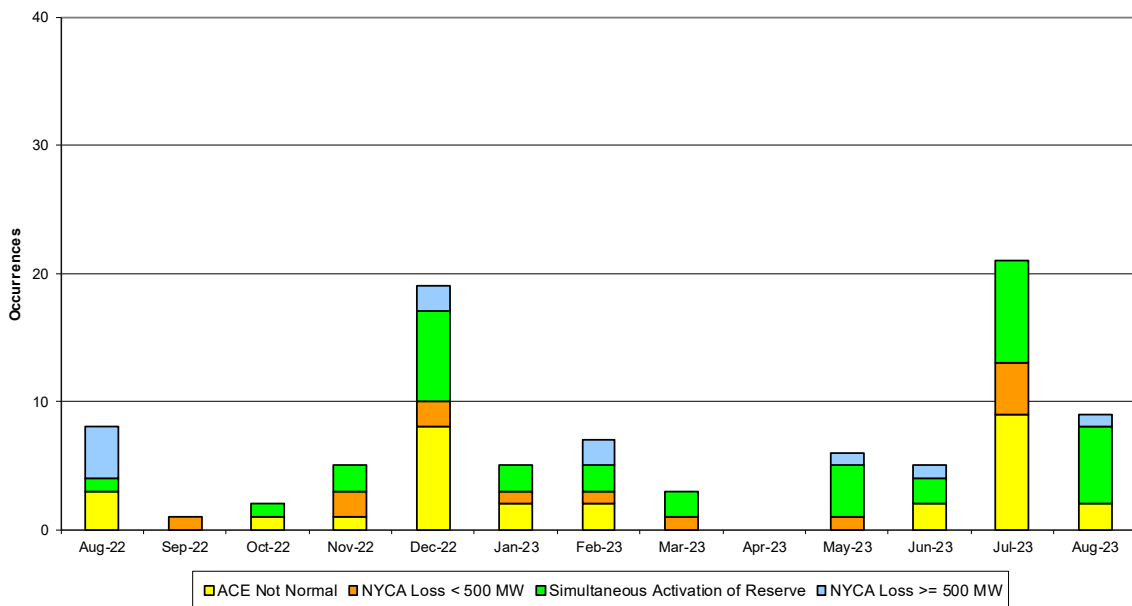


NERC Balancing Authority ACE Limit Standard



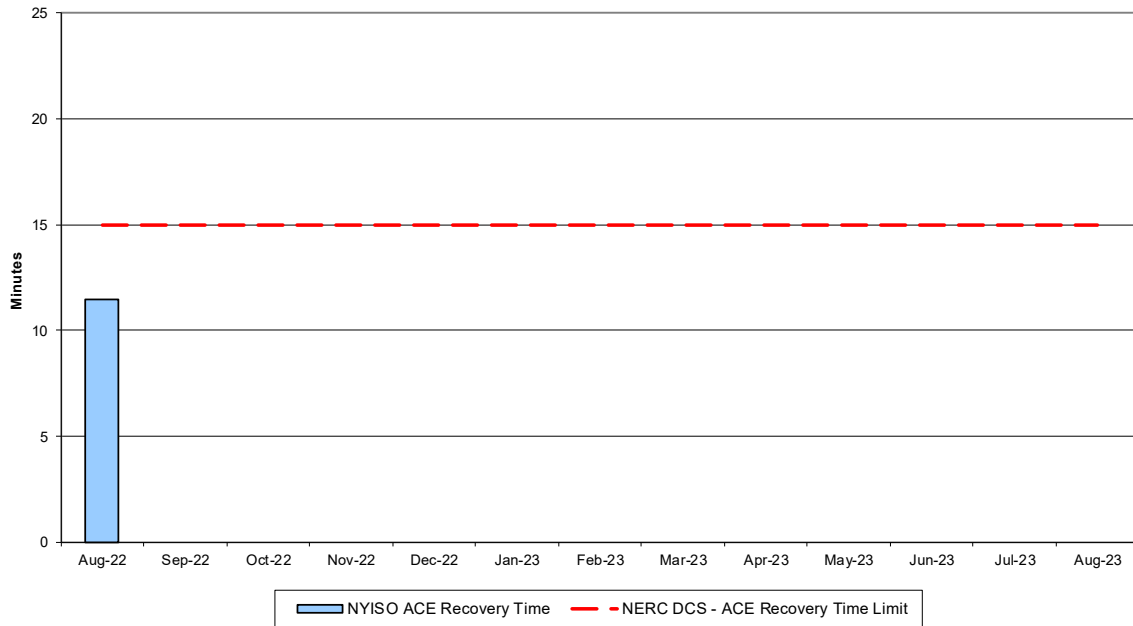
The amount of time the clock-minute average ACE exceeds the clock-minute Balancing Authority ACE Limit (BAAL) is an indicator of the NYISO Area resource and demand balancing. The maximum BAAL exceedance time is identified. BAAL exceedances of less than 30 consecutive clock-minutes are NERC compliant.

Reserve Activations



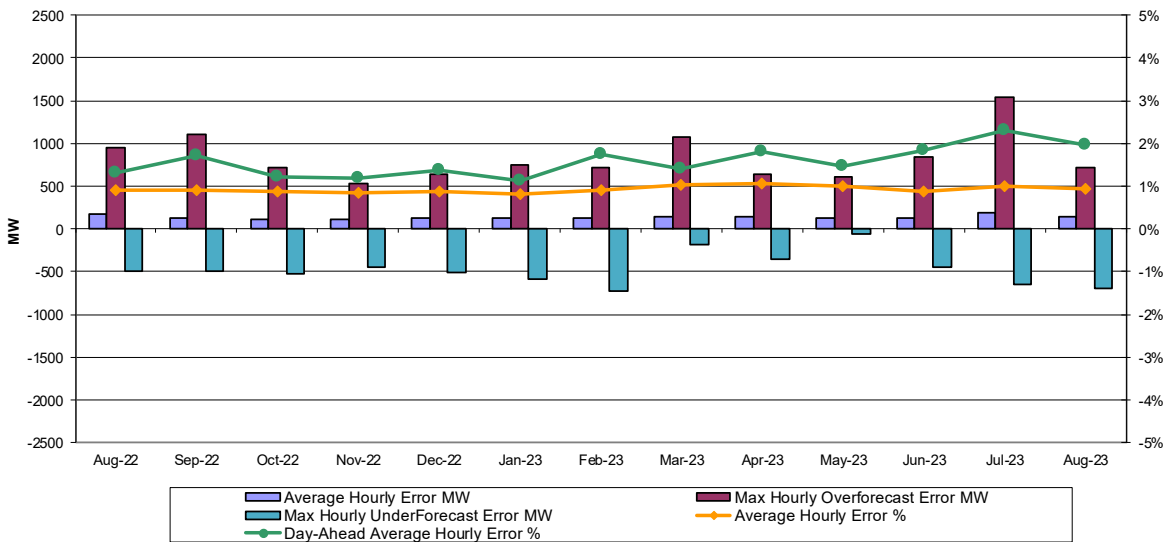
NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Simultaneous Activation of Reserves) by activating an immediate resource and demand balancing operation.

DCS Event Time to ACE Recovery



For NYISO initiated NERC Reportable Disturbances, the maximum ACE recovery time is identified. Recovery times of less than 15 minutes are considered NERC compliant.

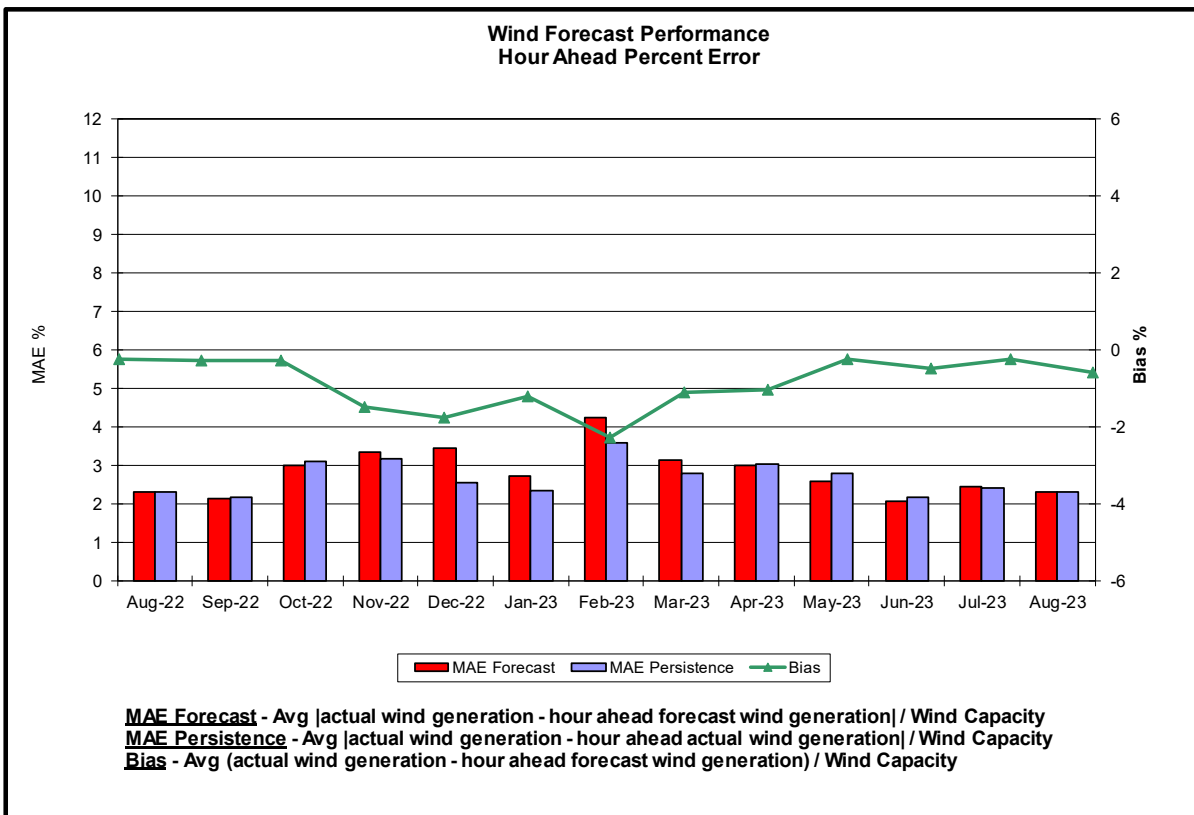
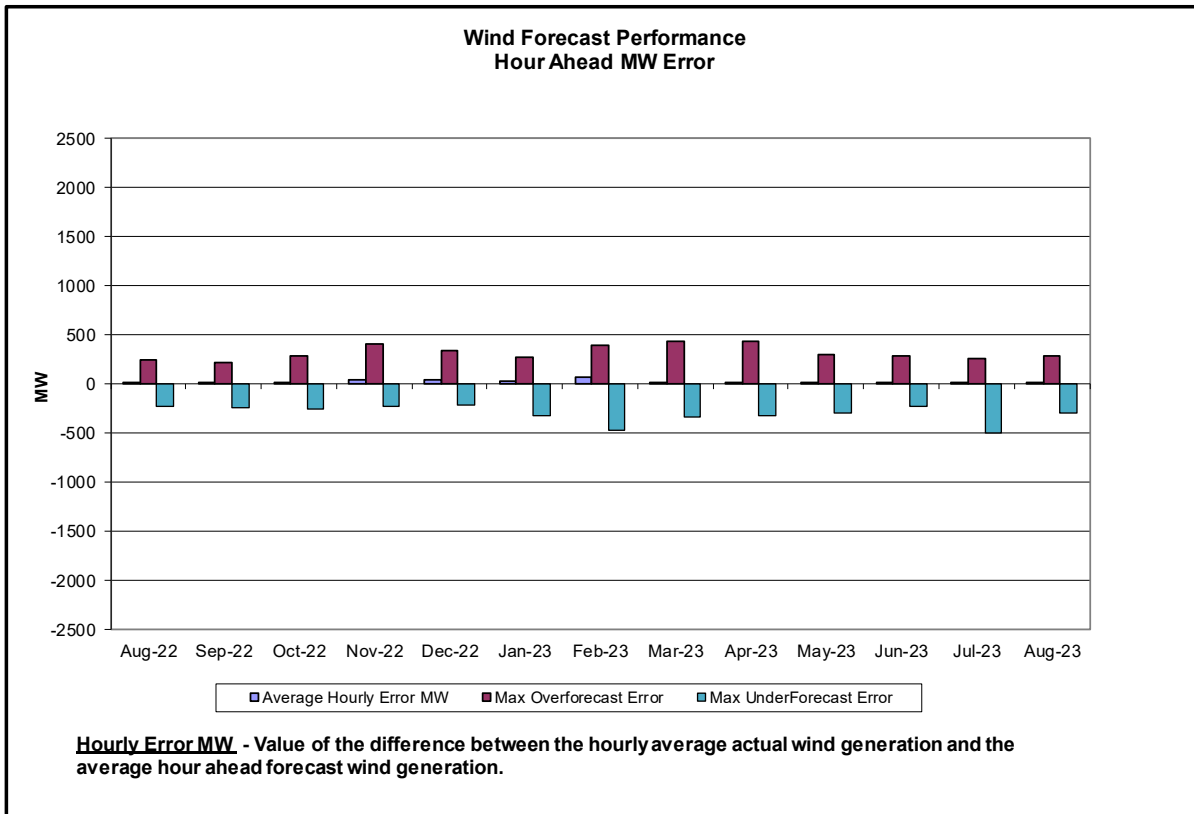
Load Forecast Performance

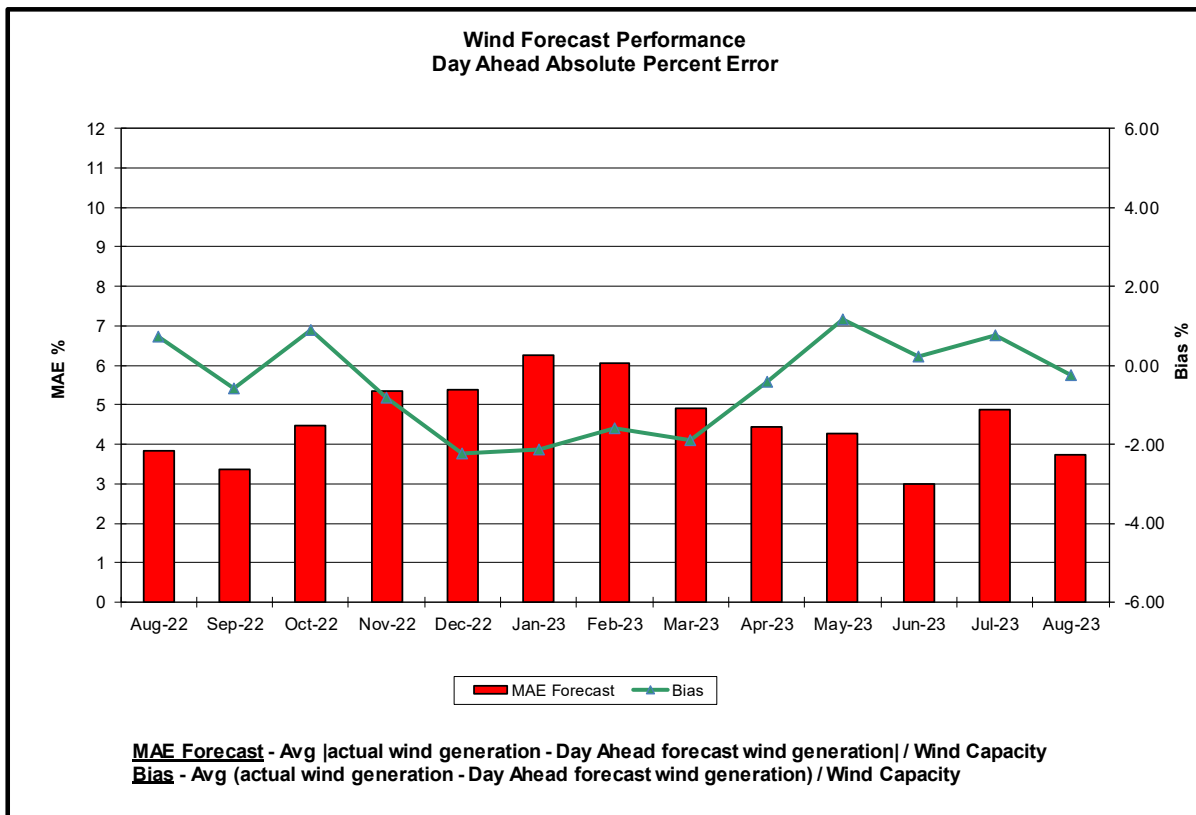
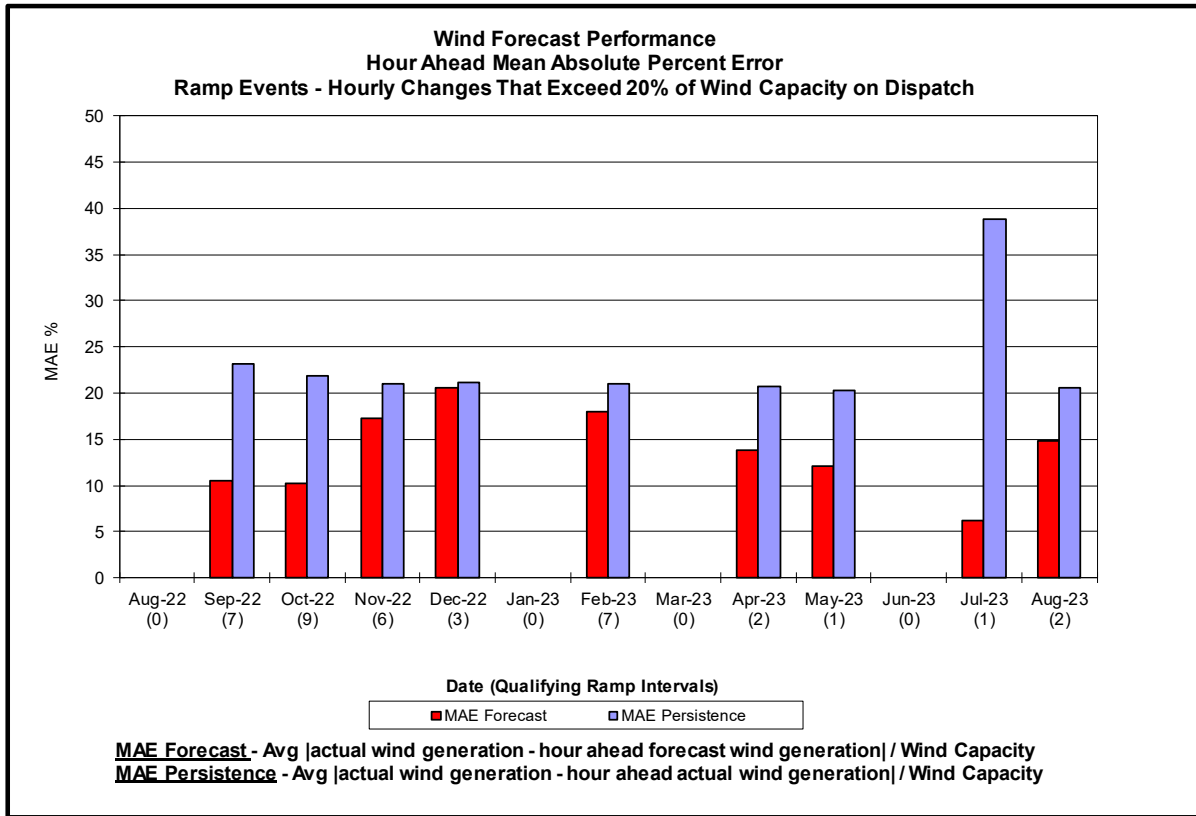


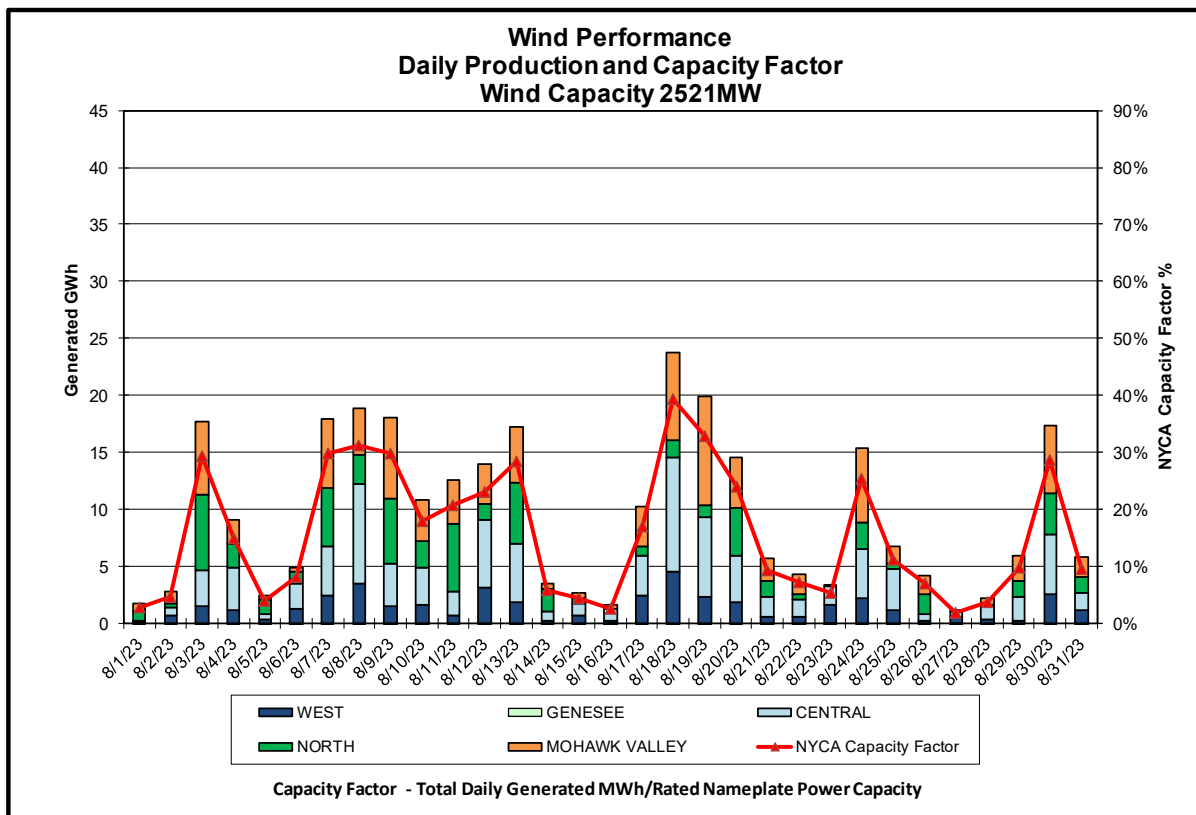
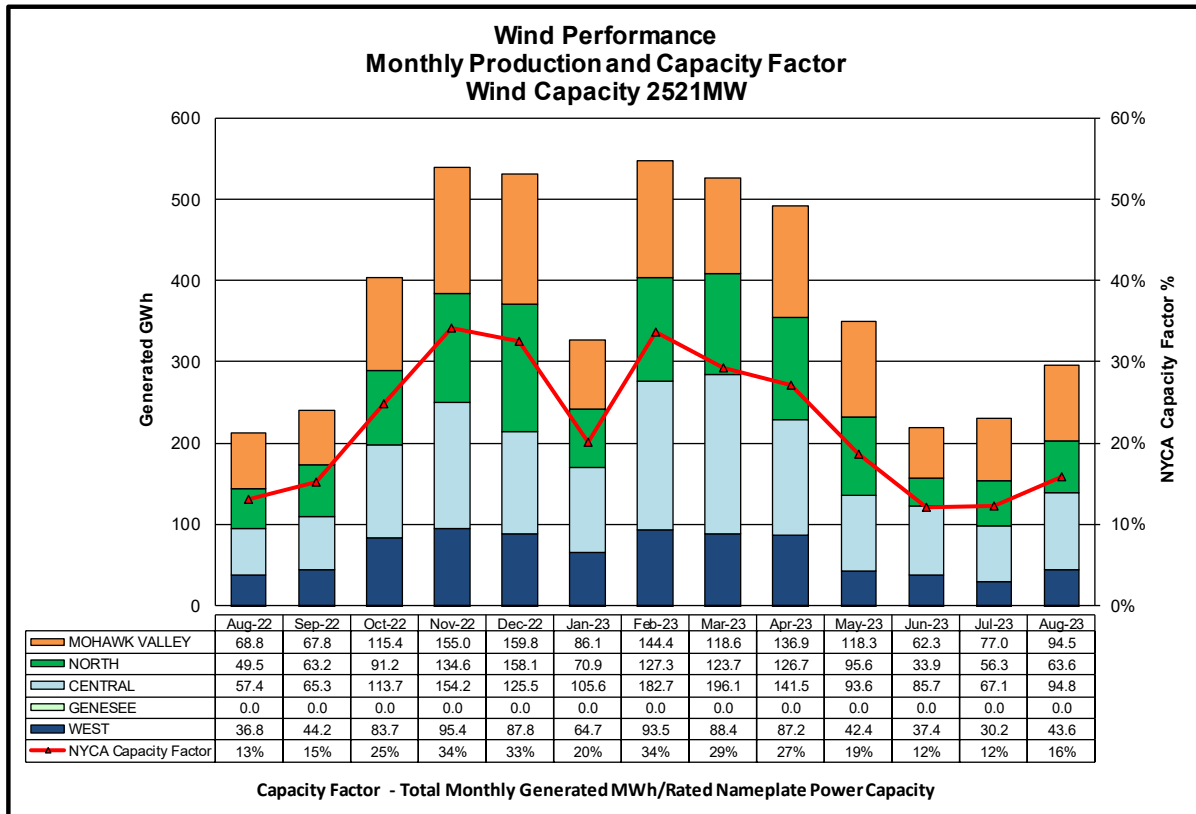
Hourly Error MW - Value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

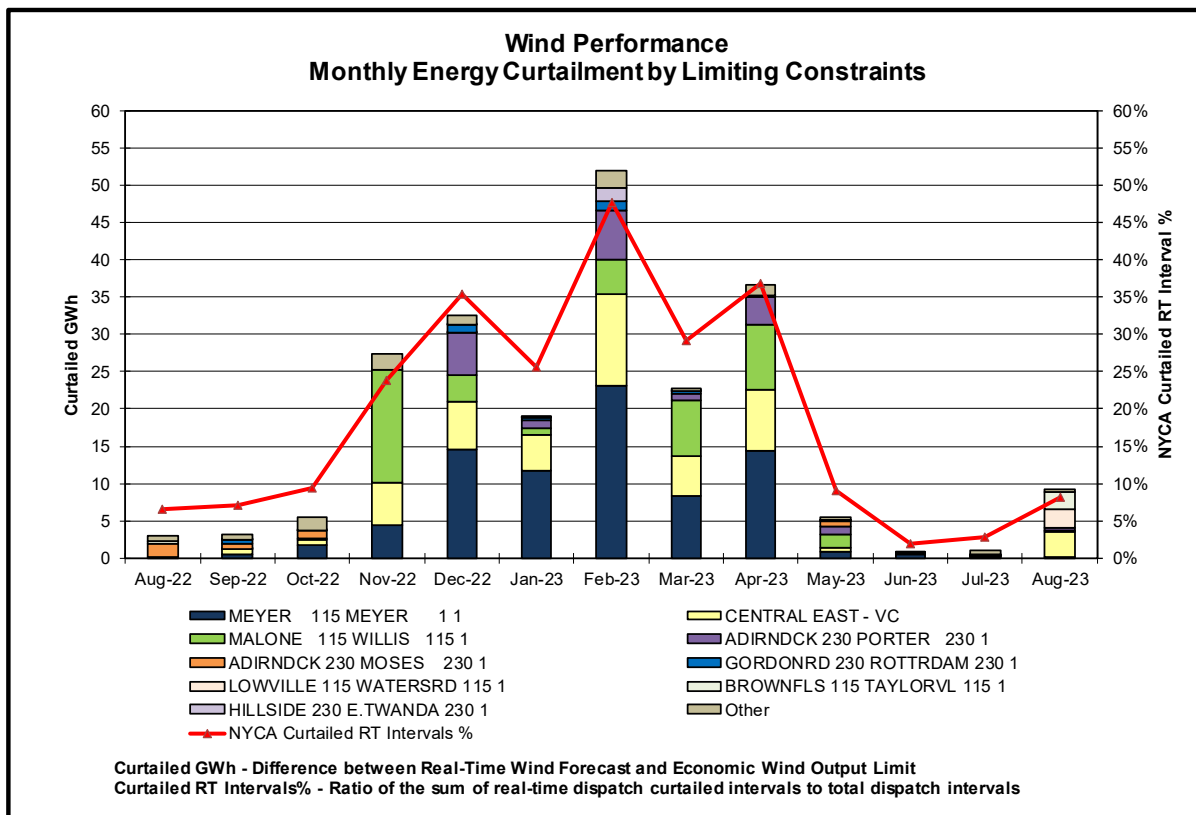
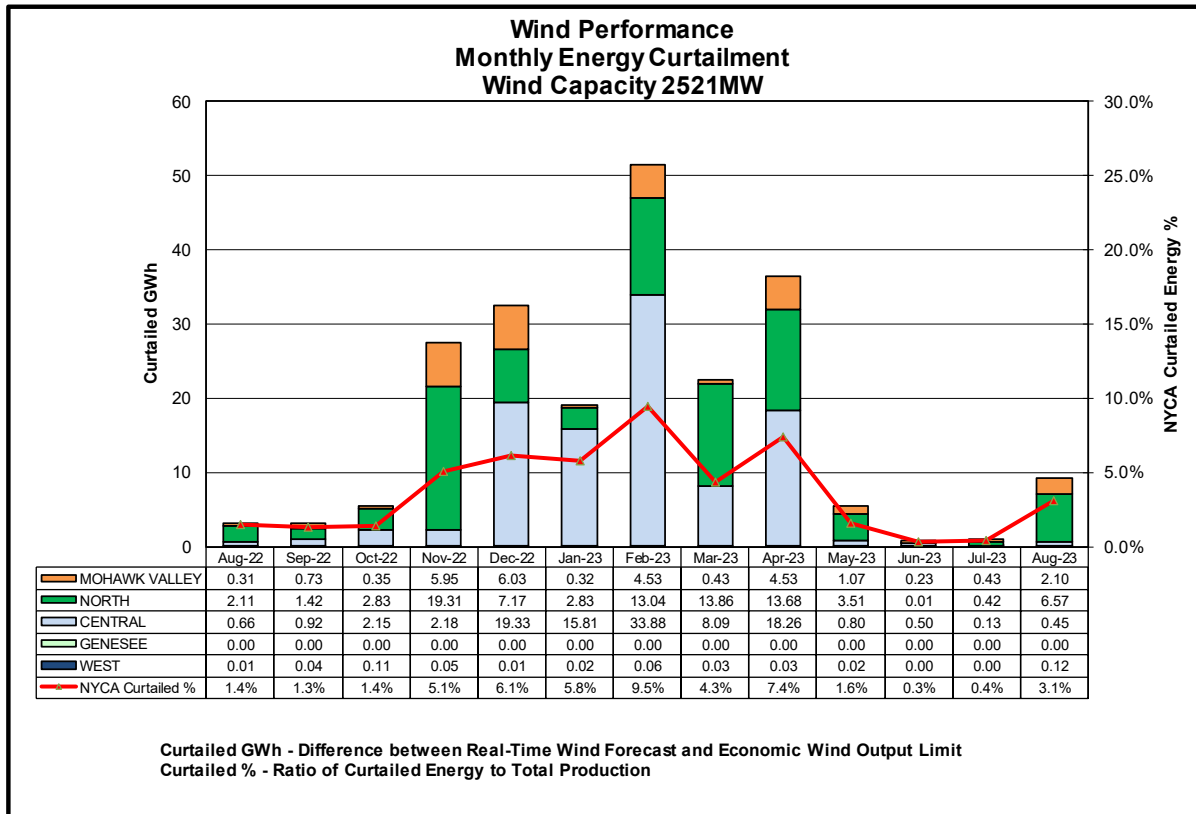
Average Hourly Error % - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

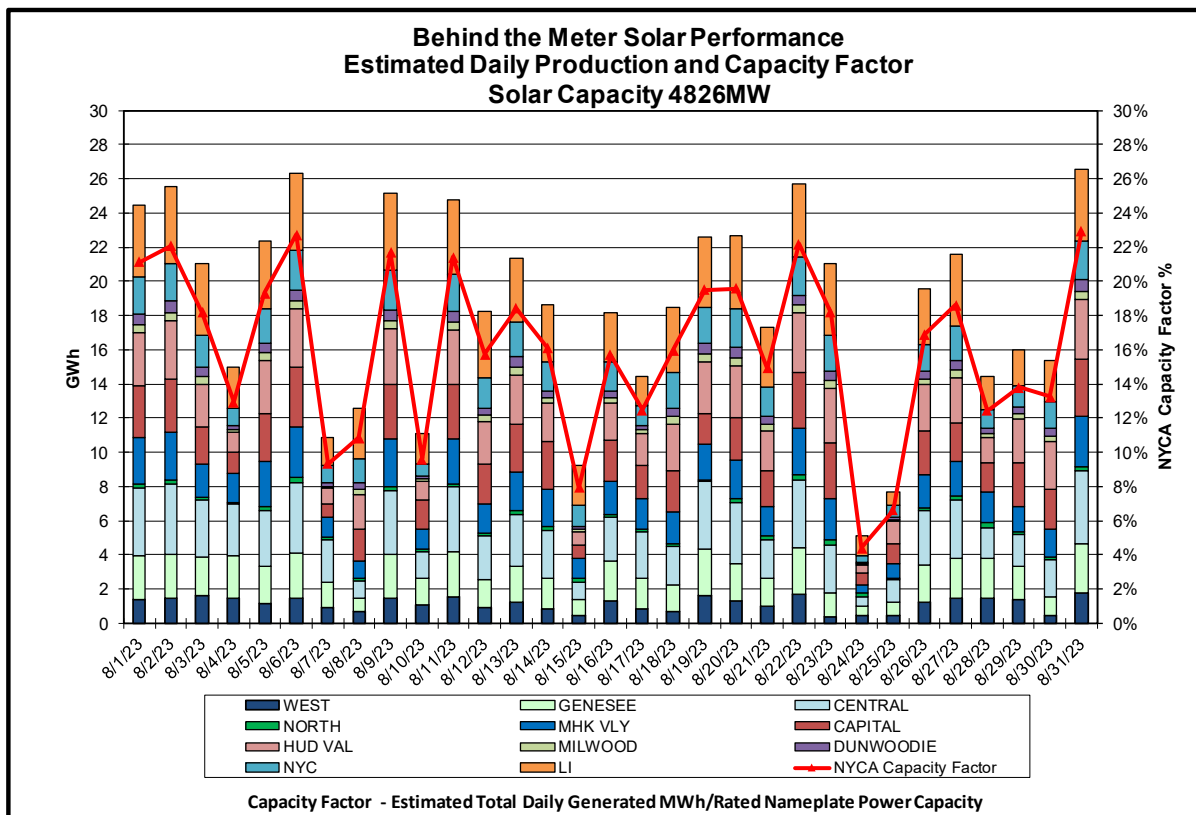
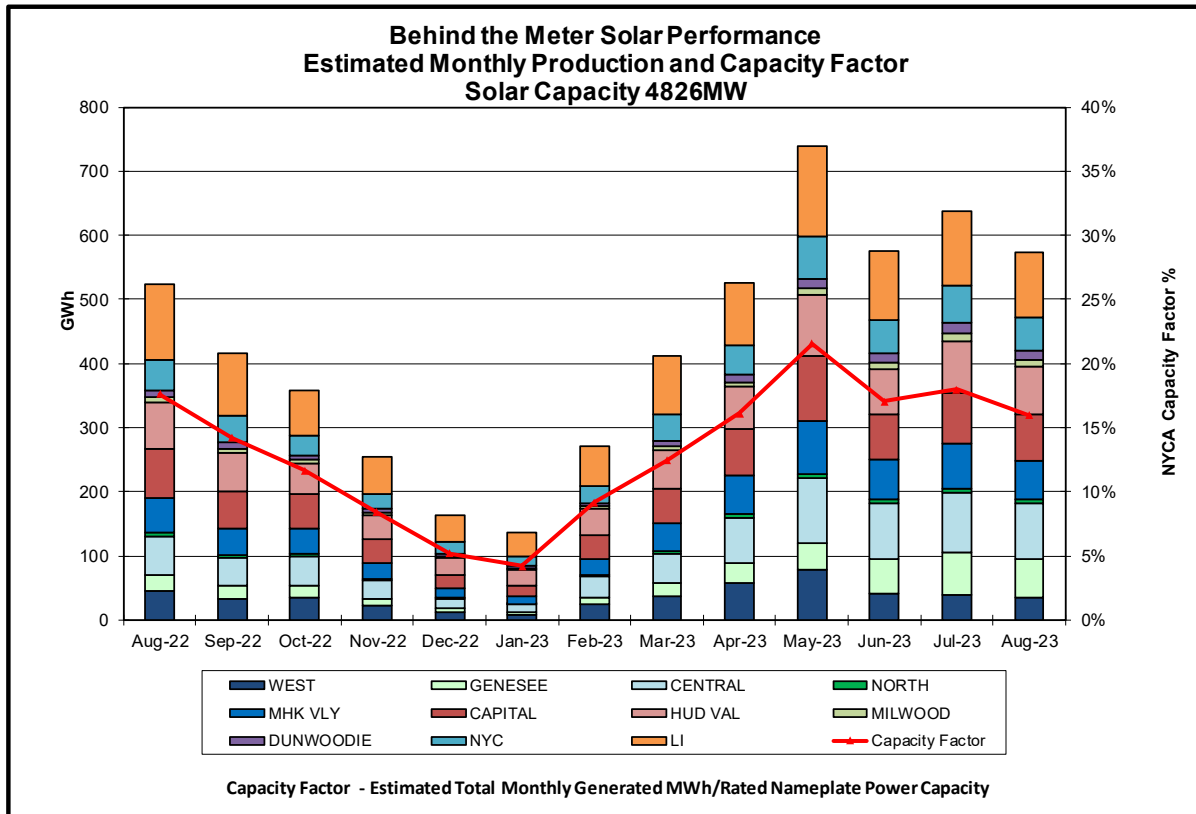
Day-Ahead Average Hourly Error % - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

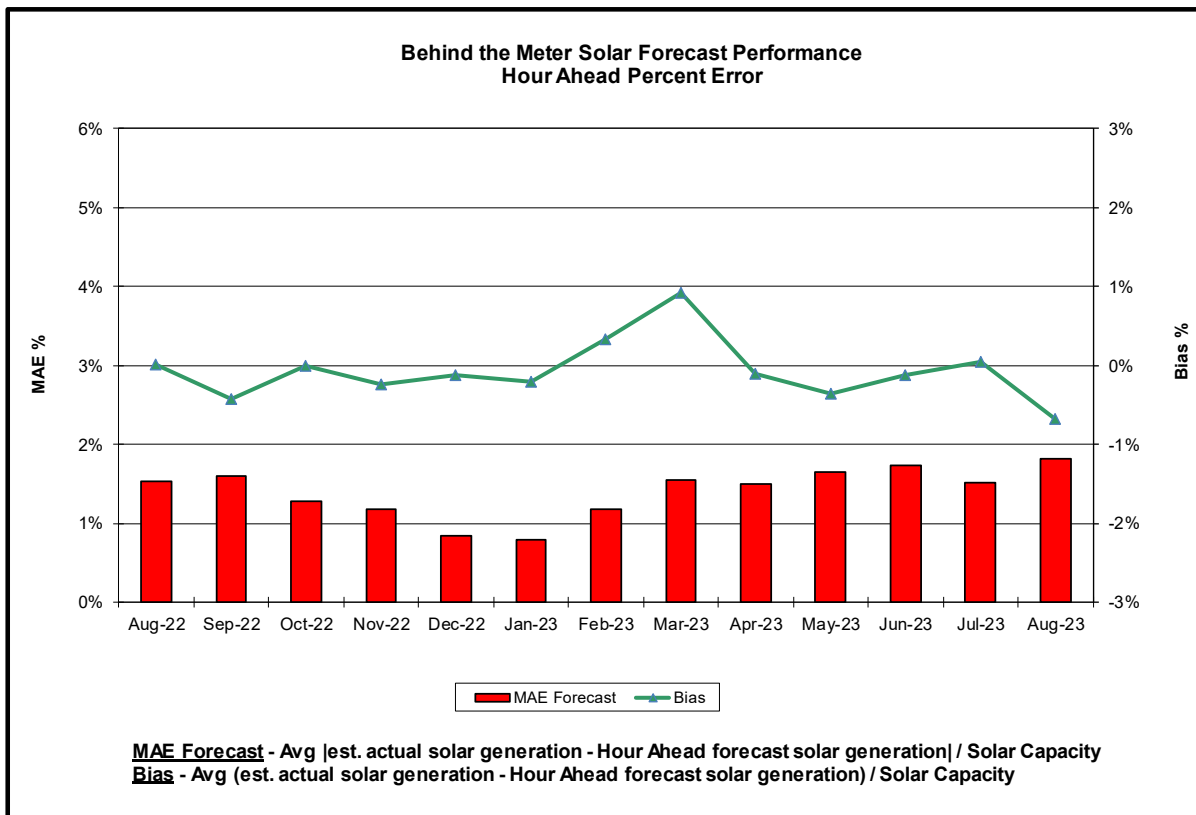
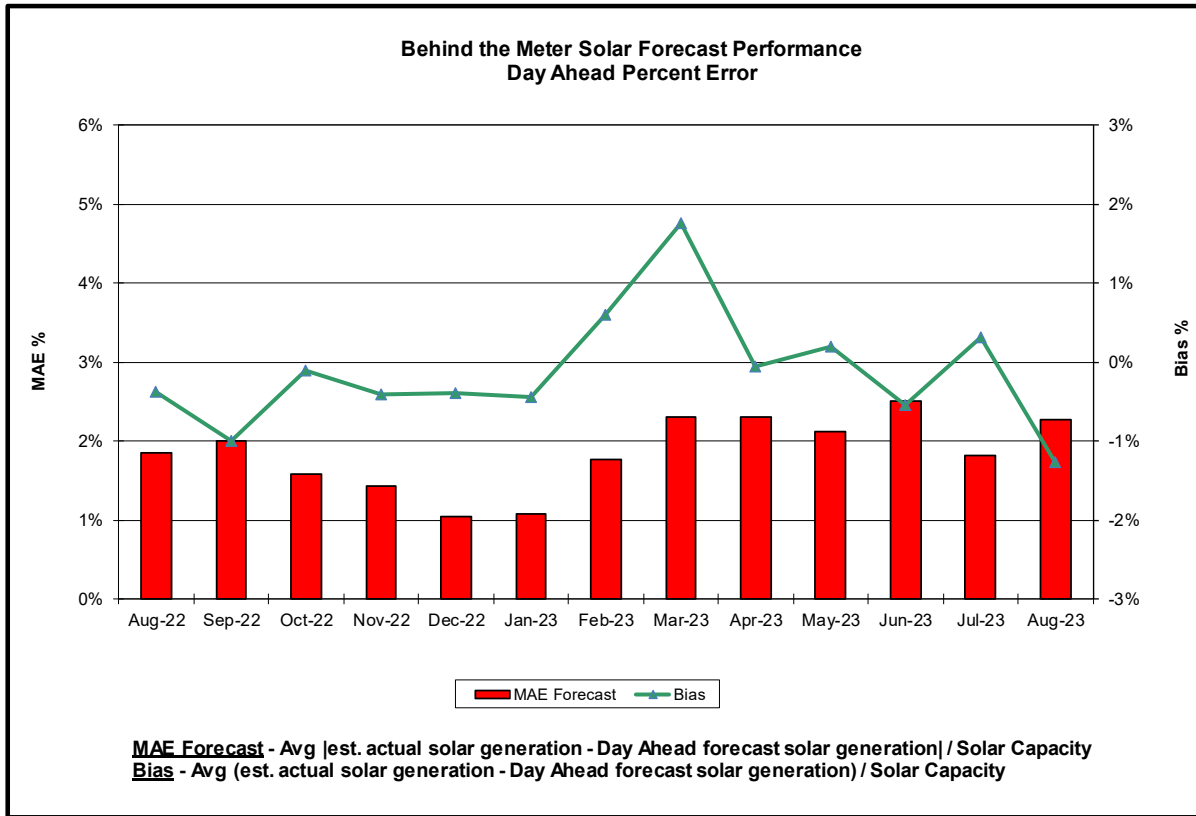


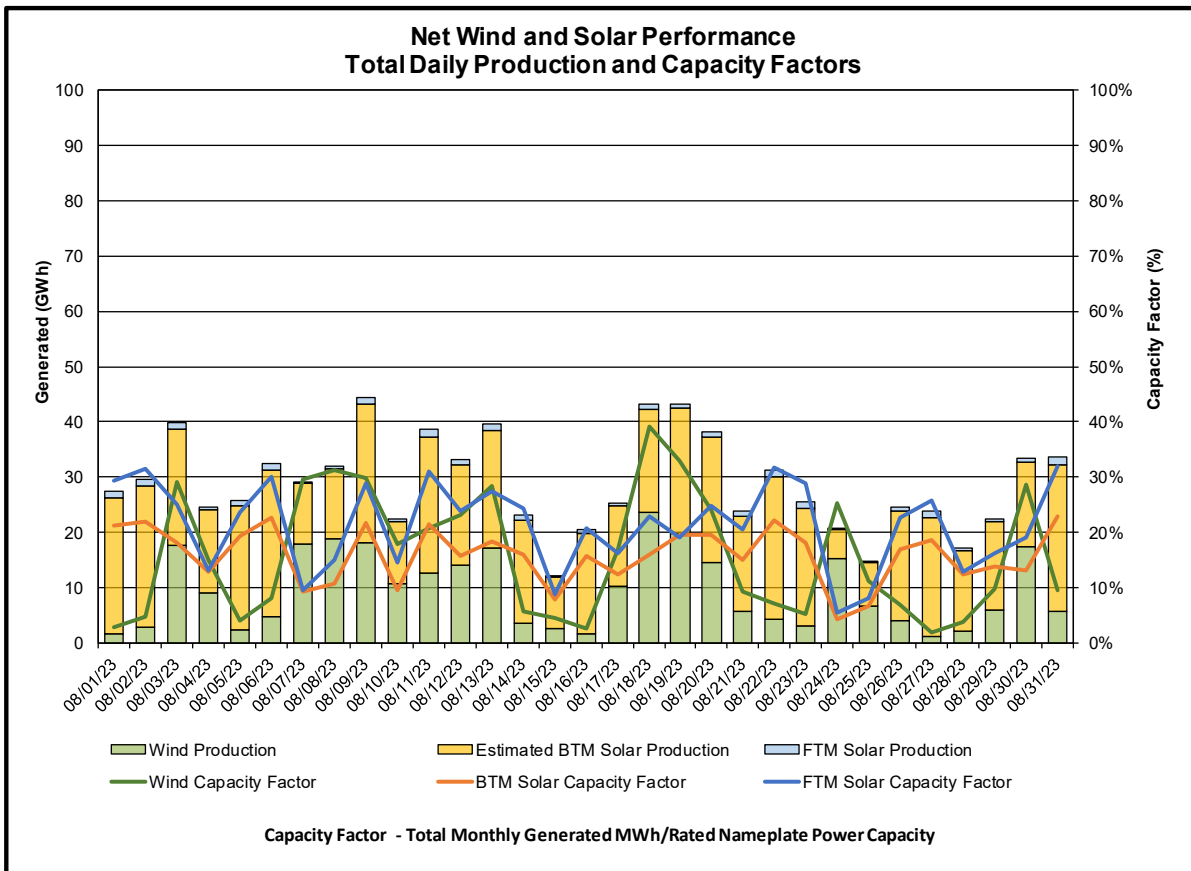
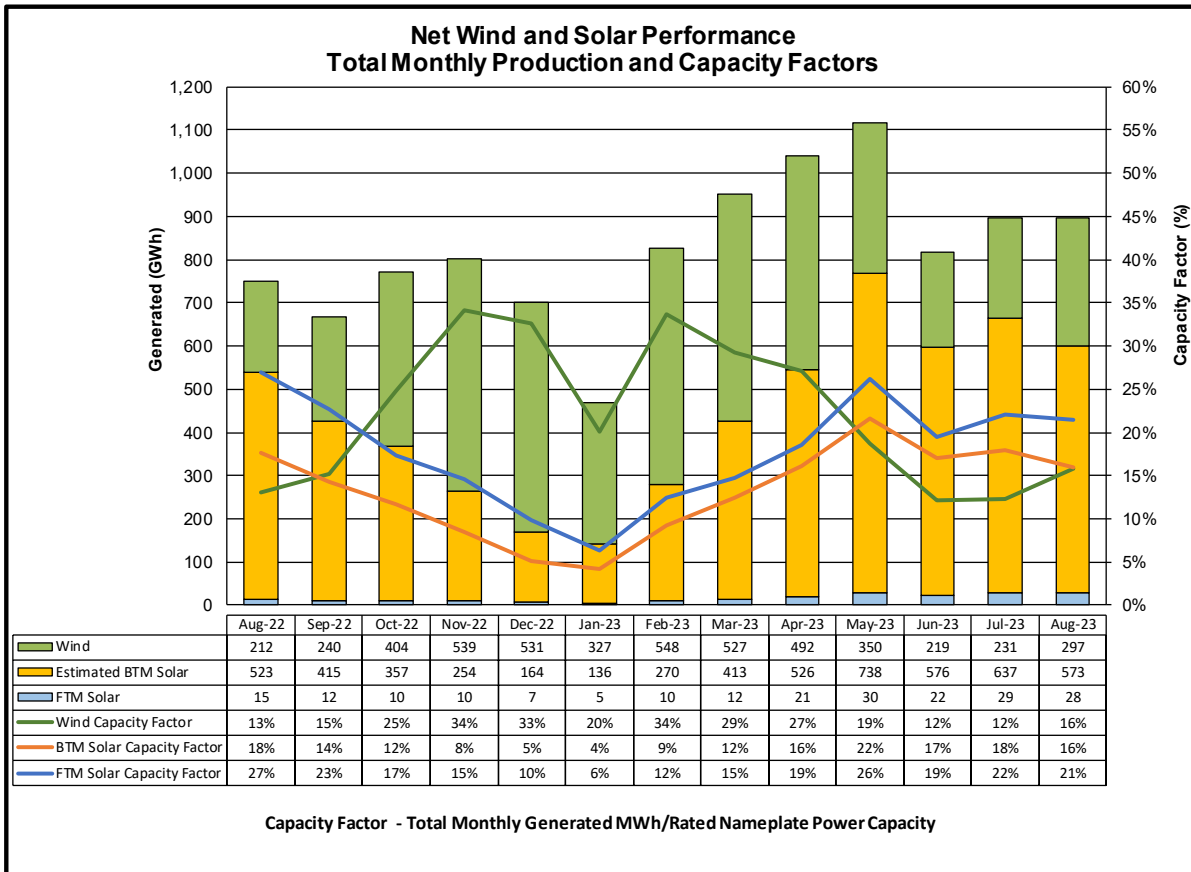


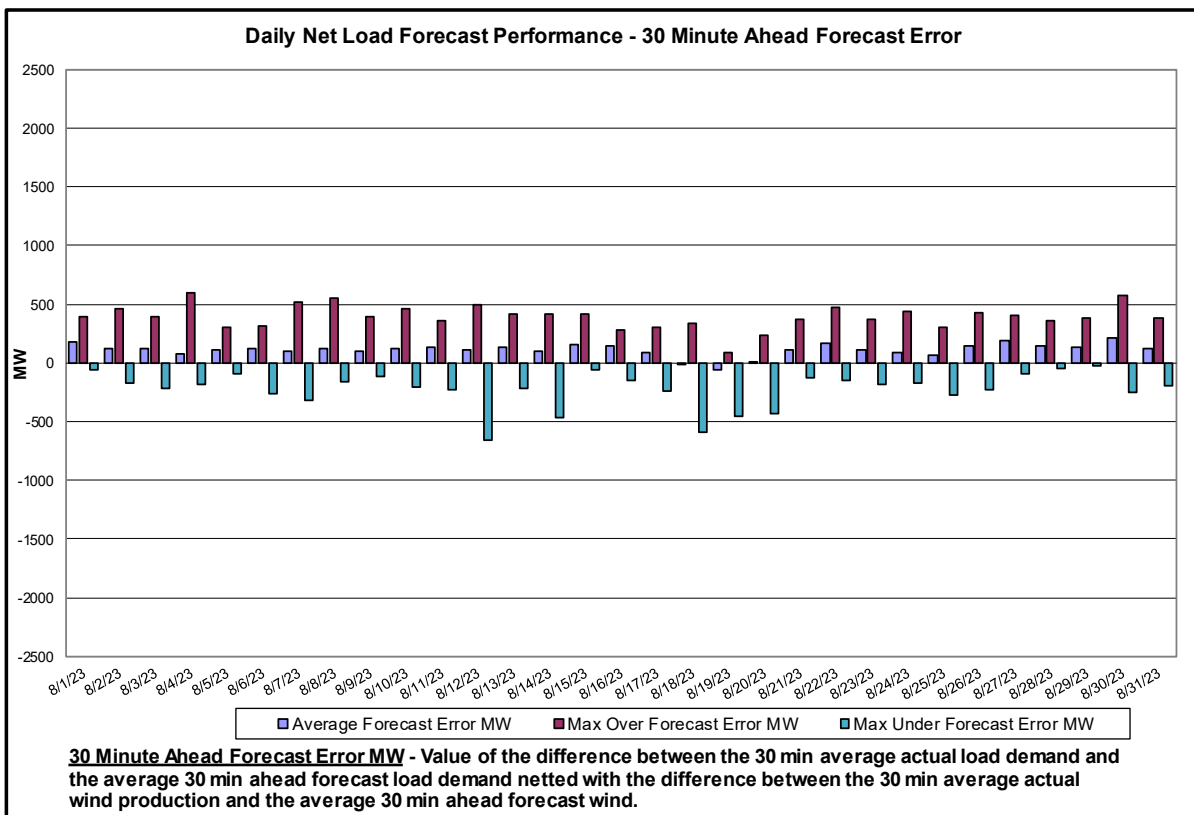
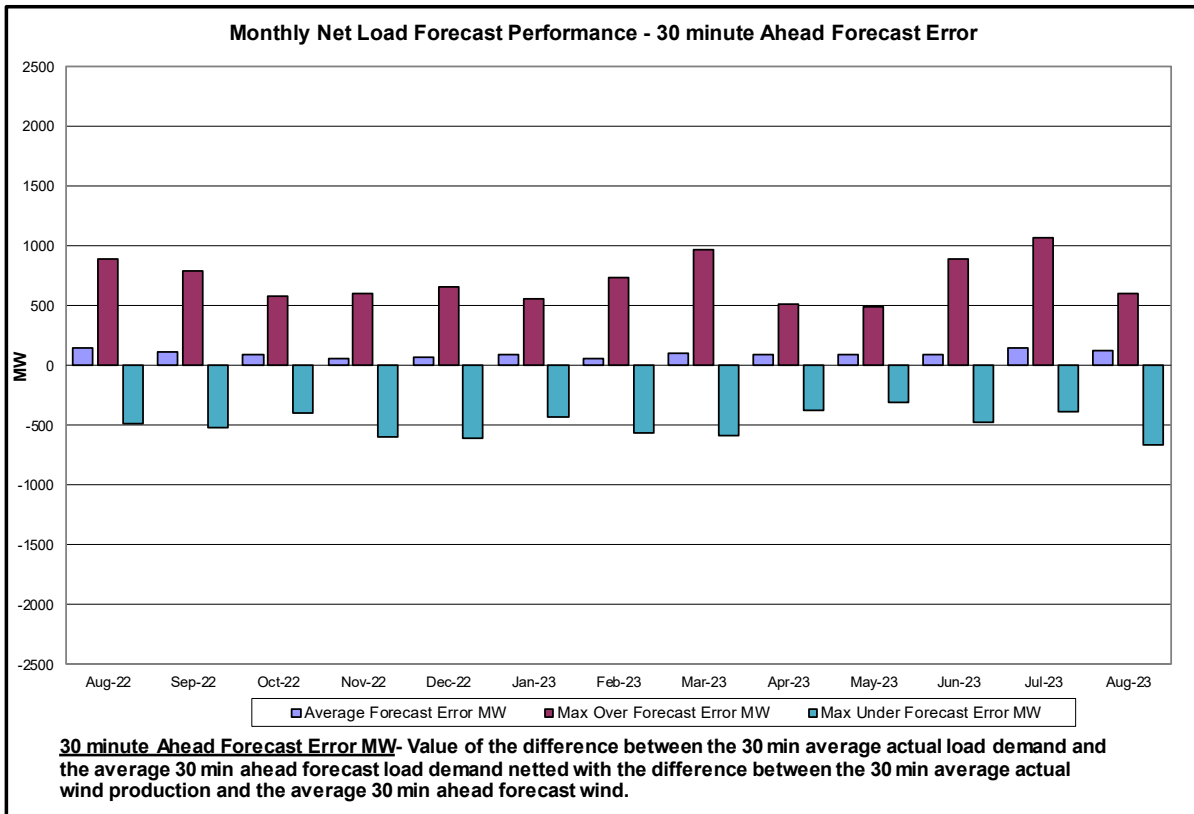


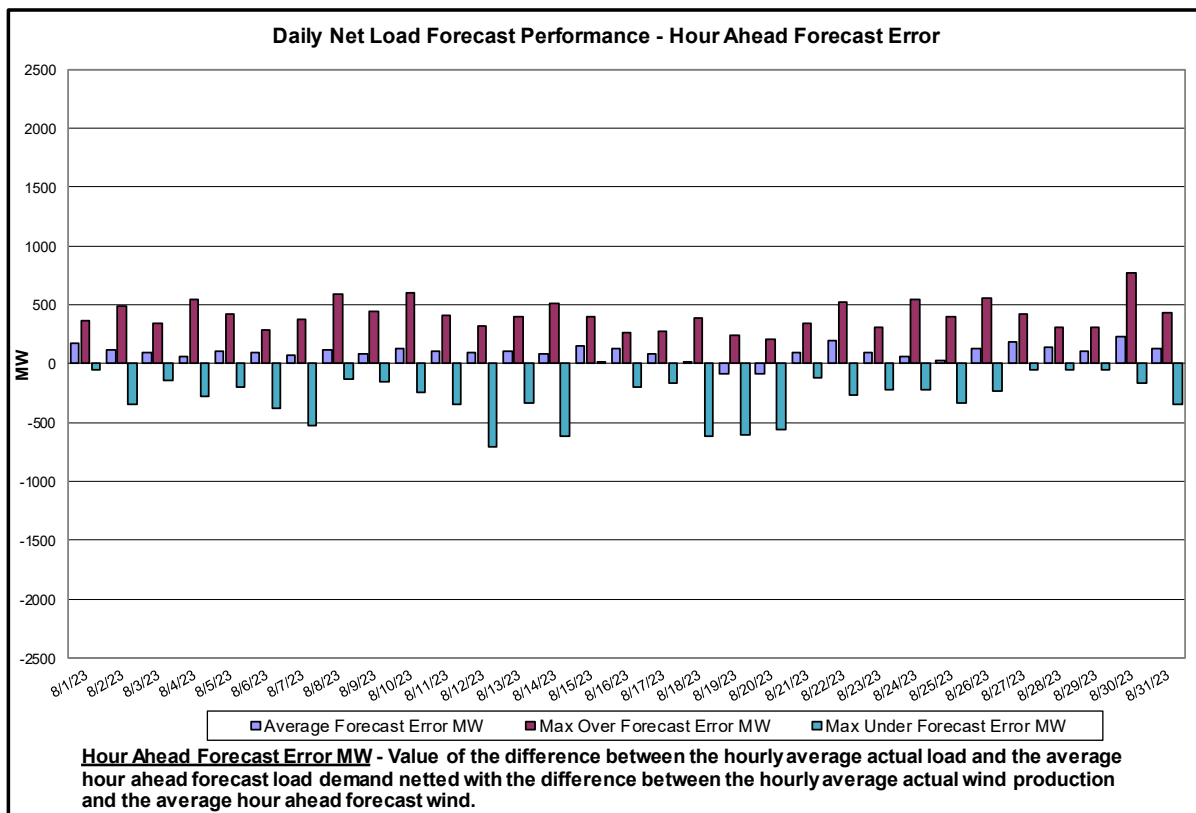
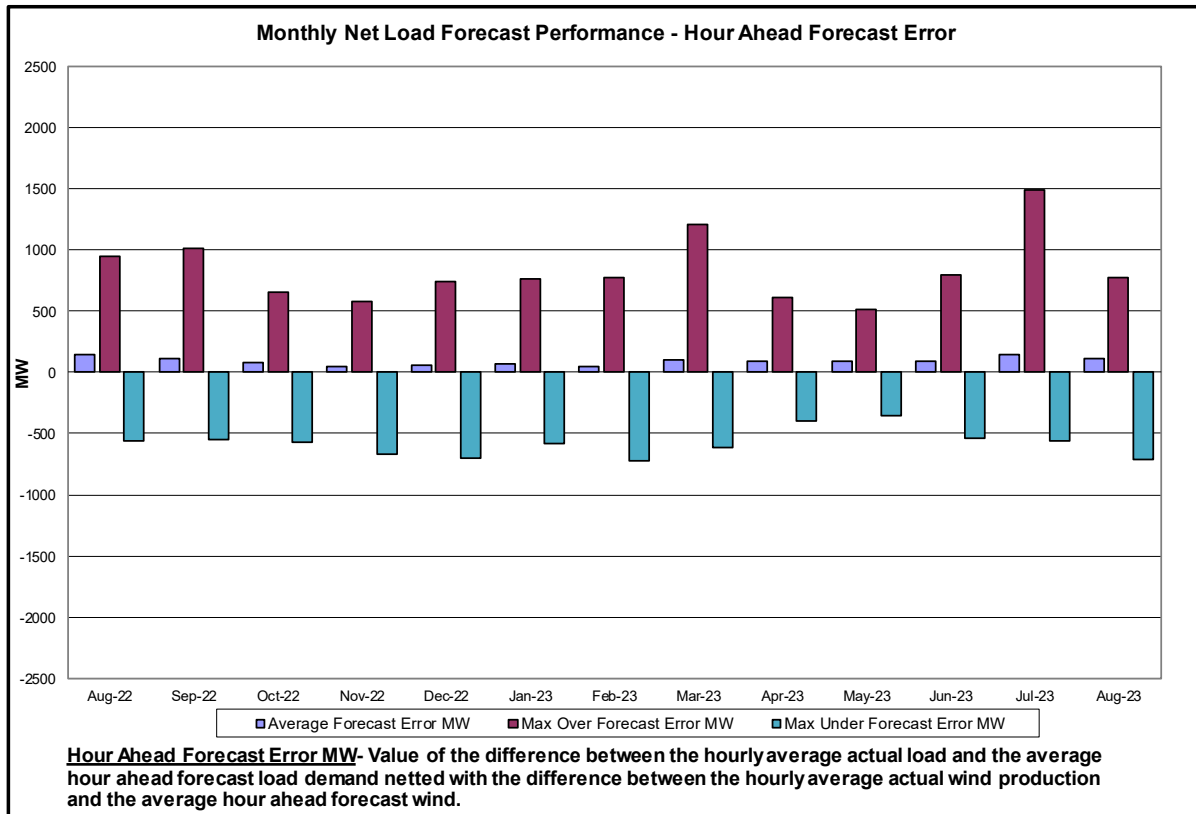


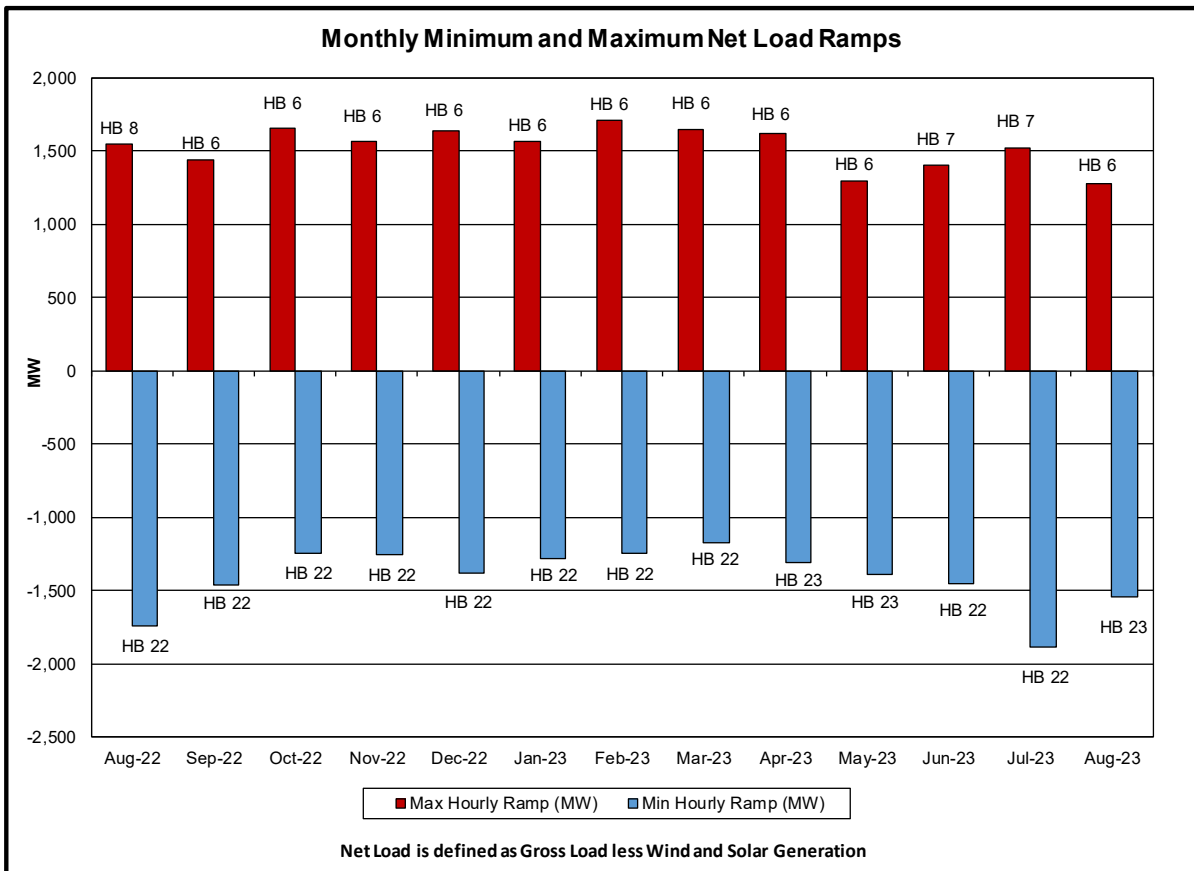
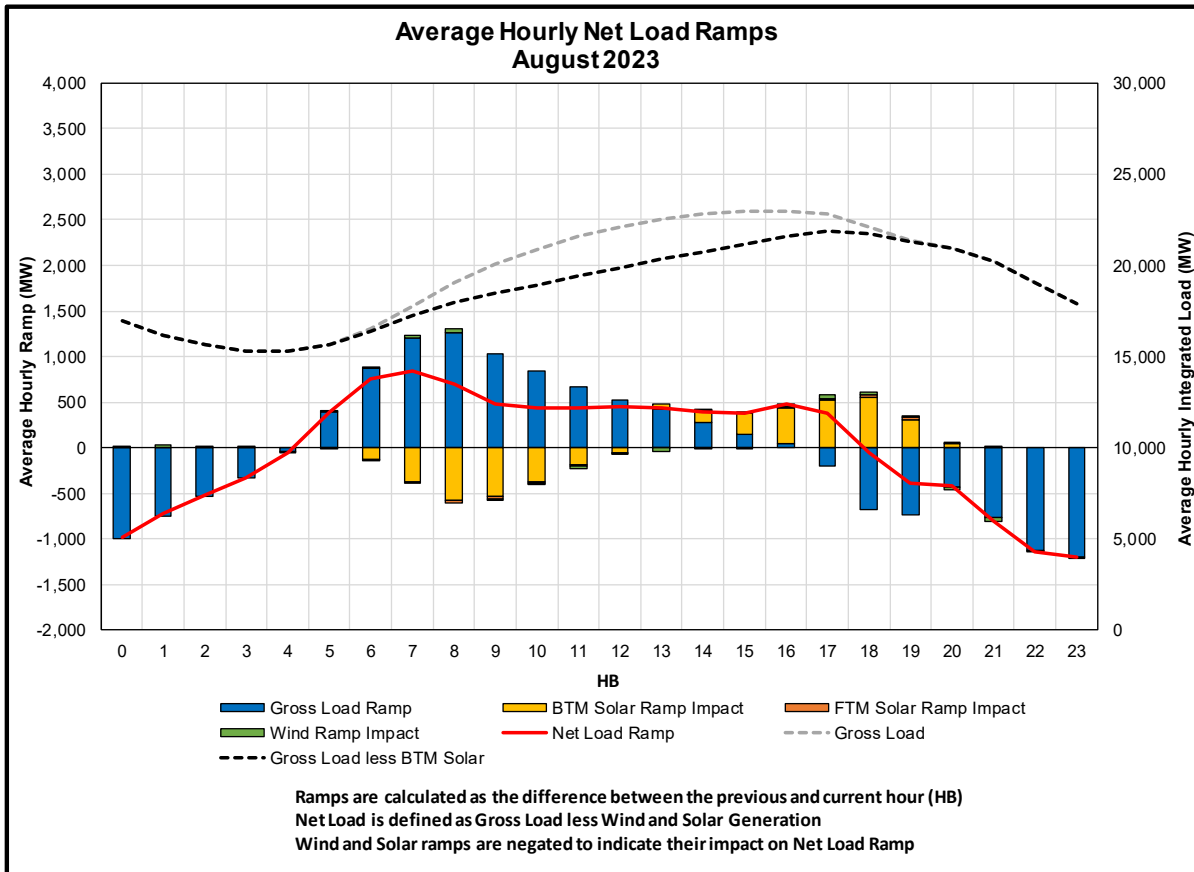




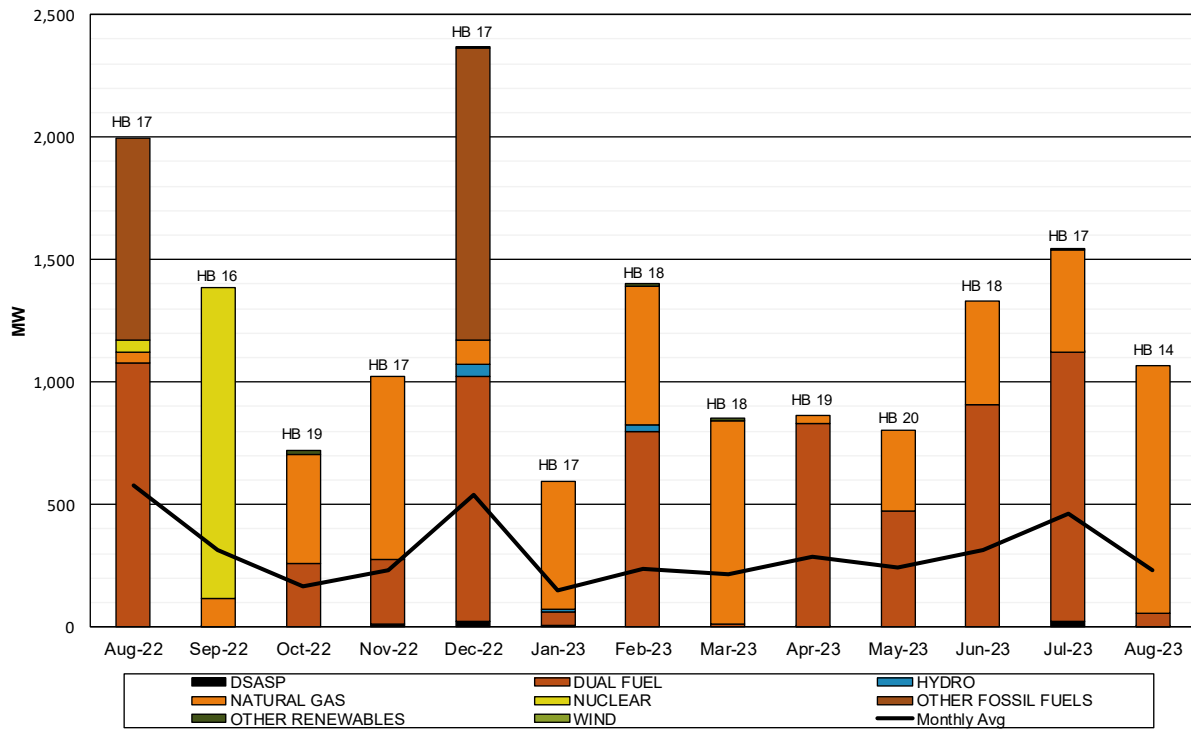








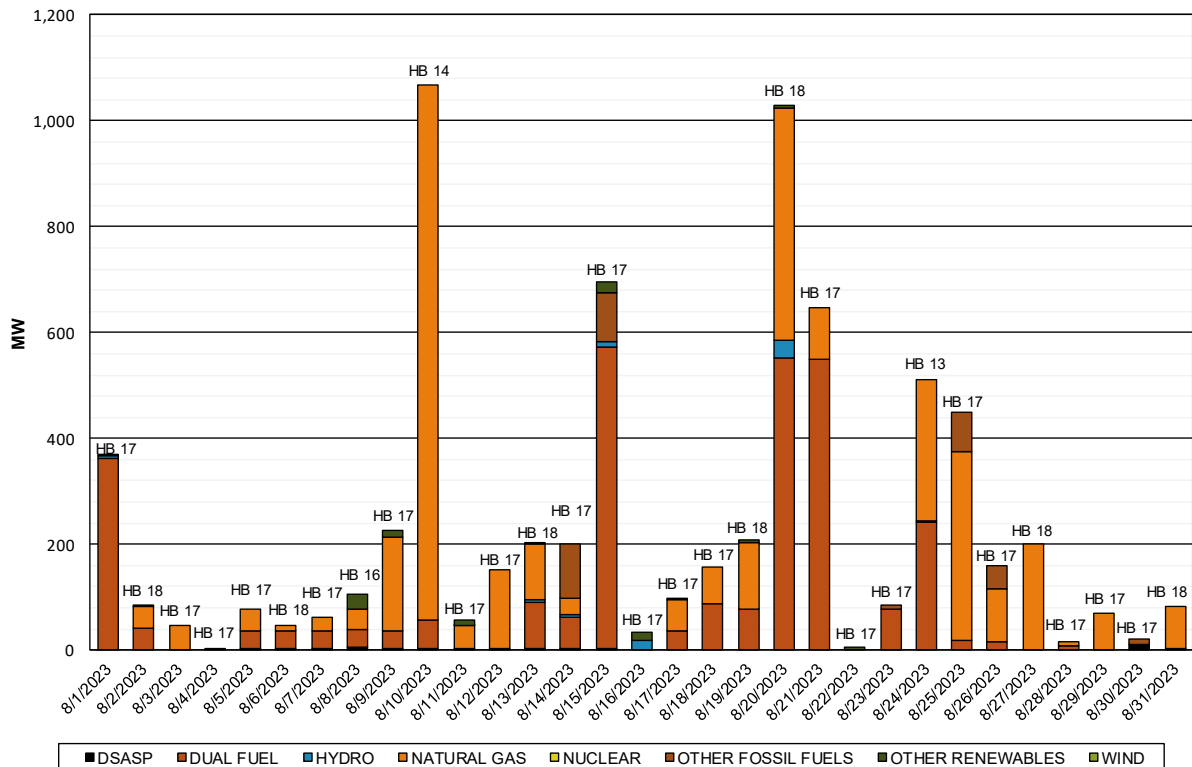
Monthly Maximum Day-Ahead Market Capacity Unavailable In Real Time



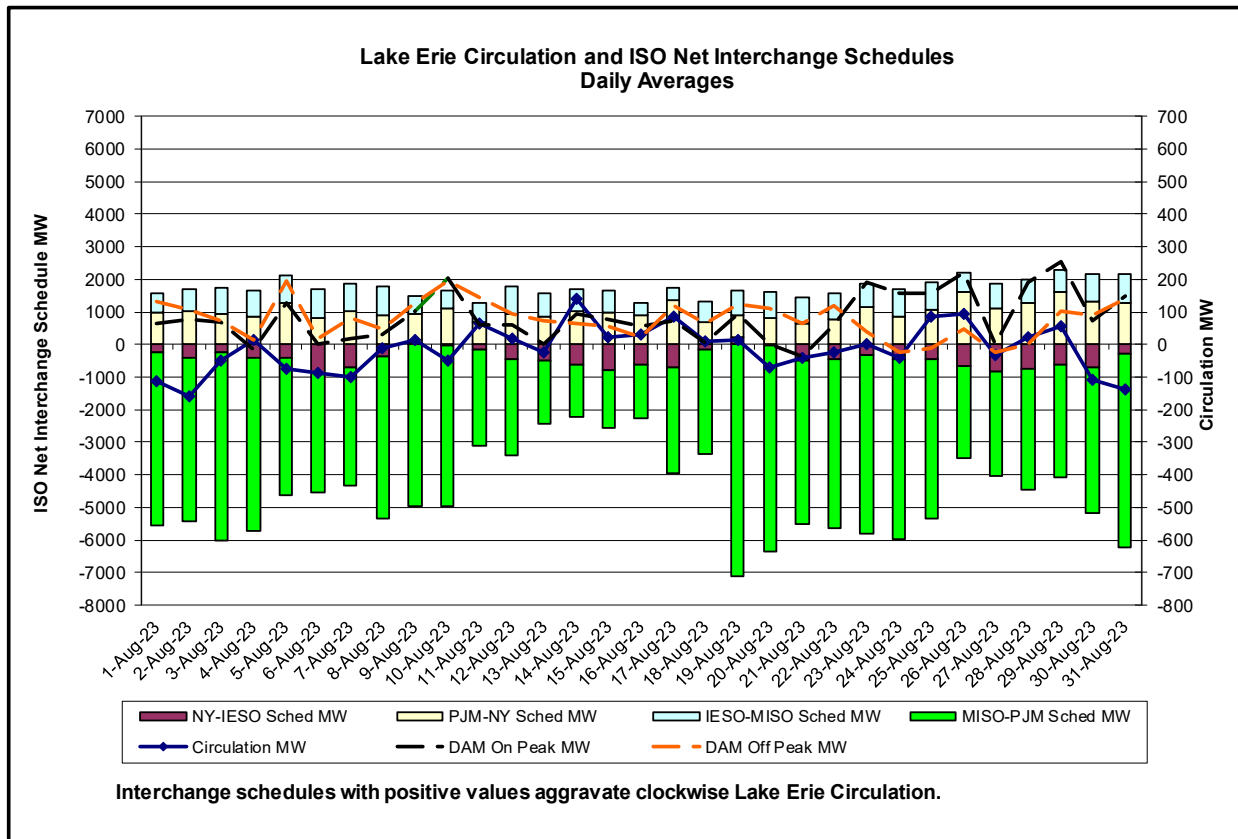
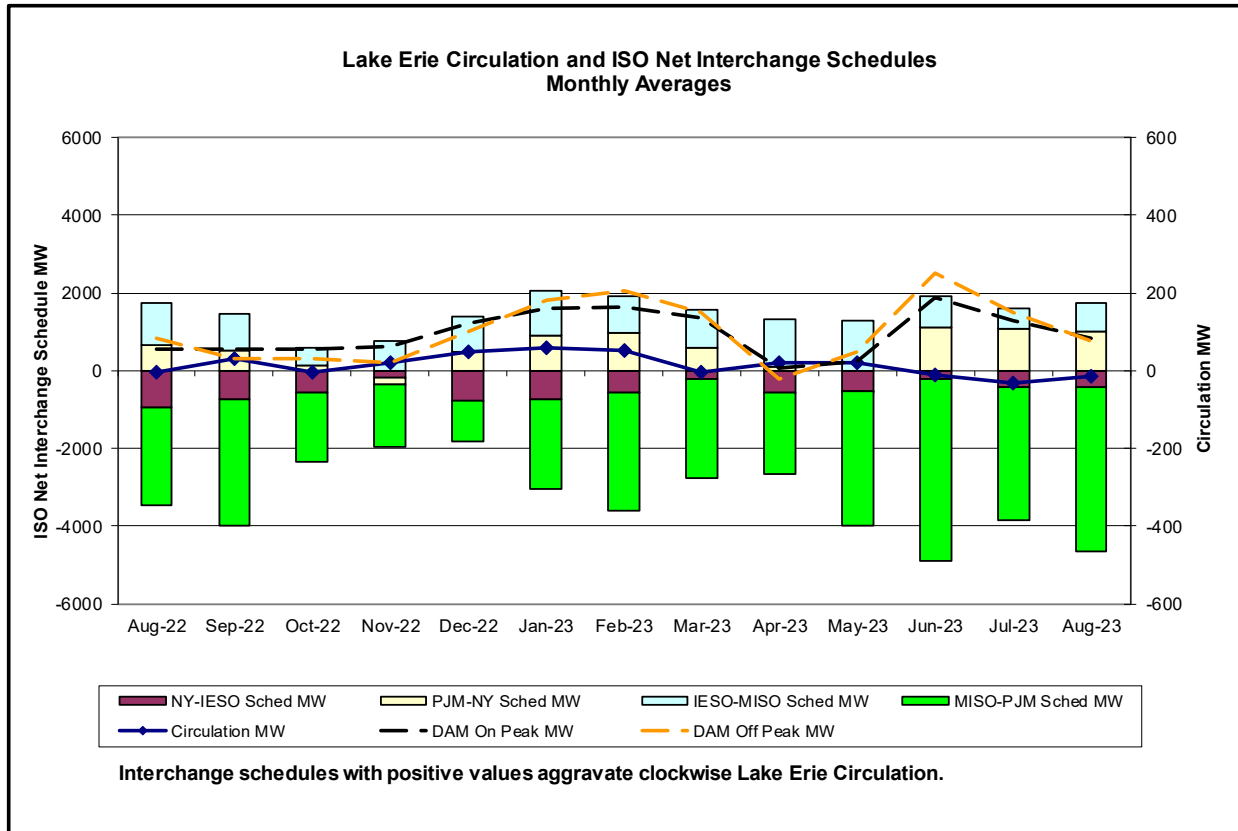
Unavailable Capacity is calculated as the difference of Day-Ahead Market (DAM) capacity relative to Real-Time (RT) capacity during RT peak load hour.

The Monthly Maximum is the day with the largest observed deficit during RT peak load hour.

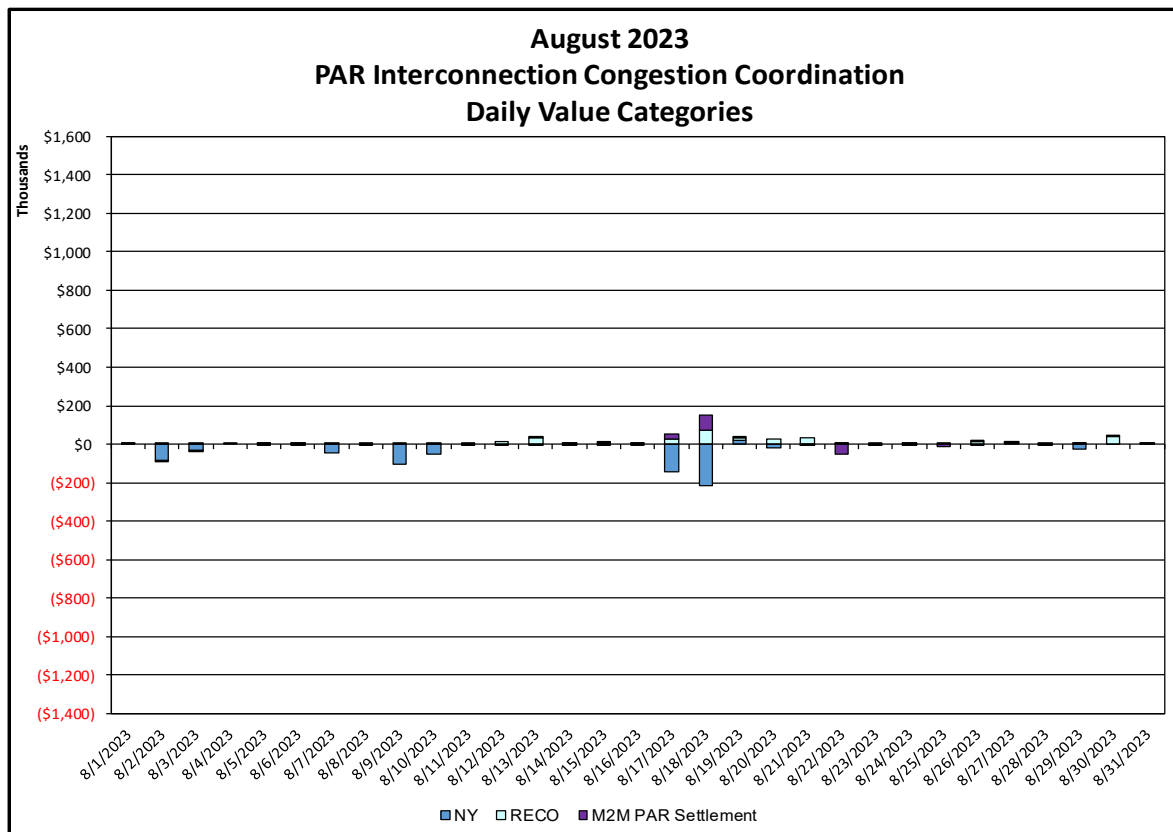
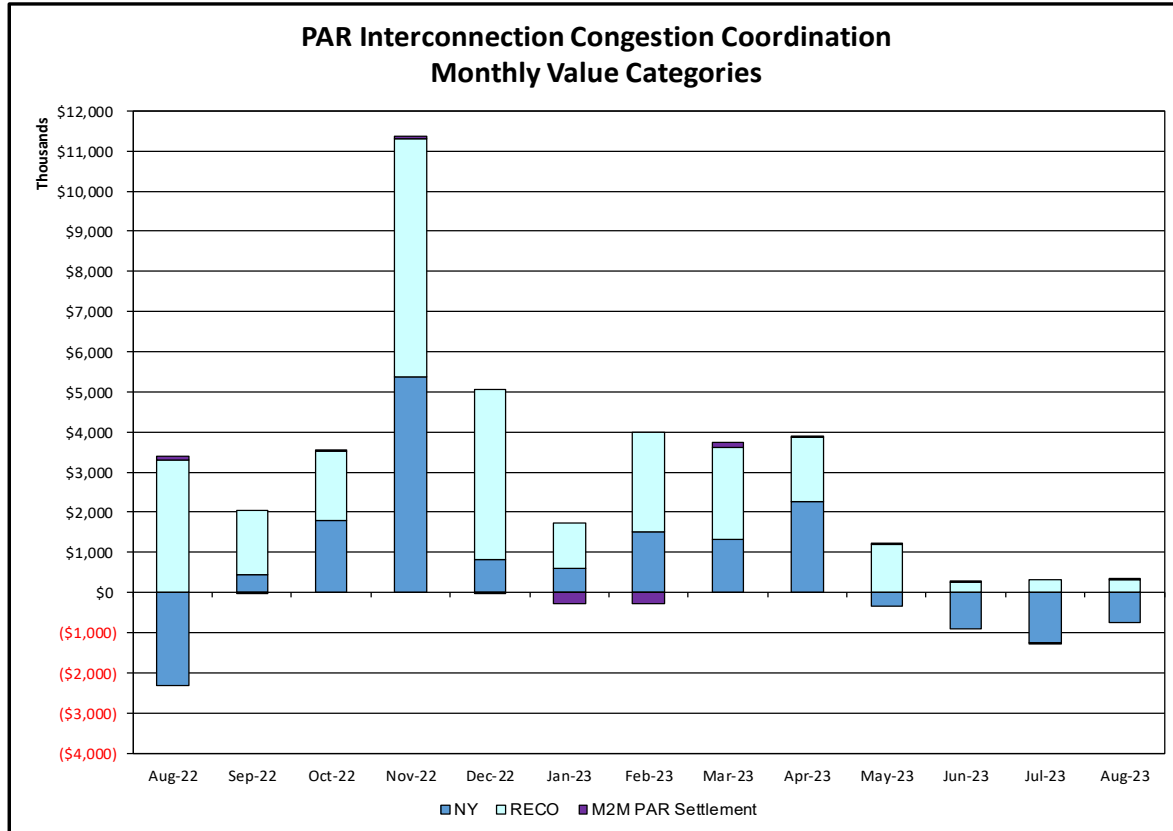
Daily Day-Ahead Market Capacity Unavailable In Real Time



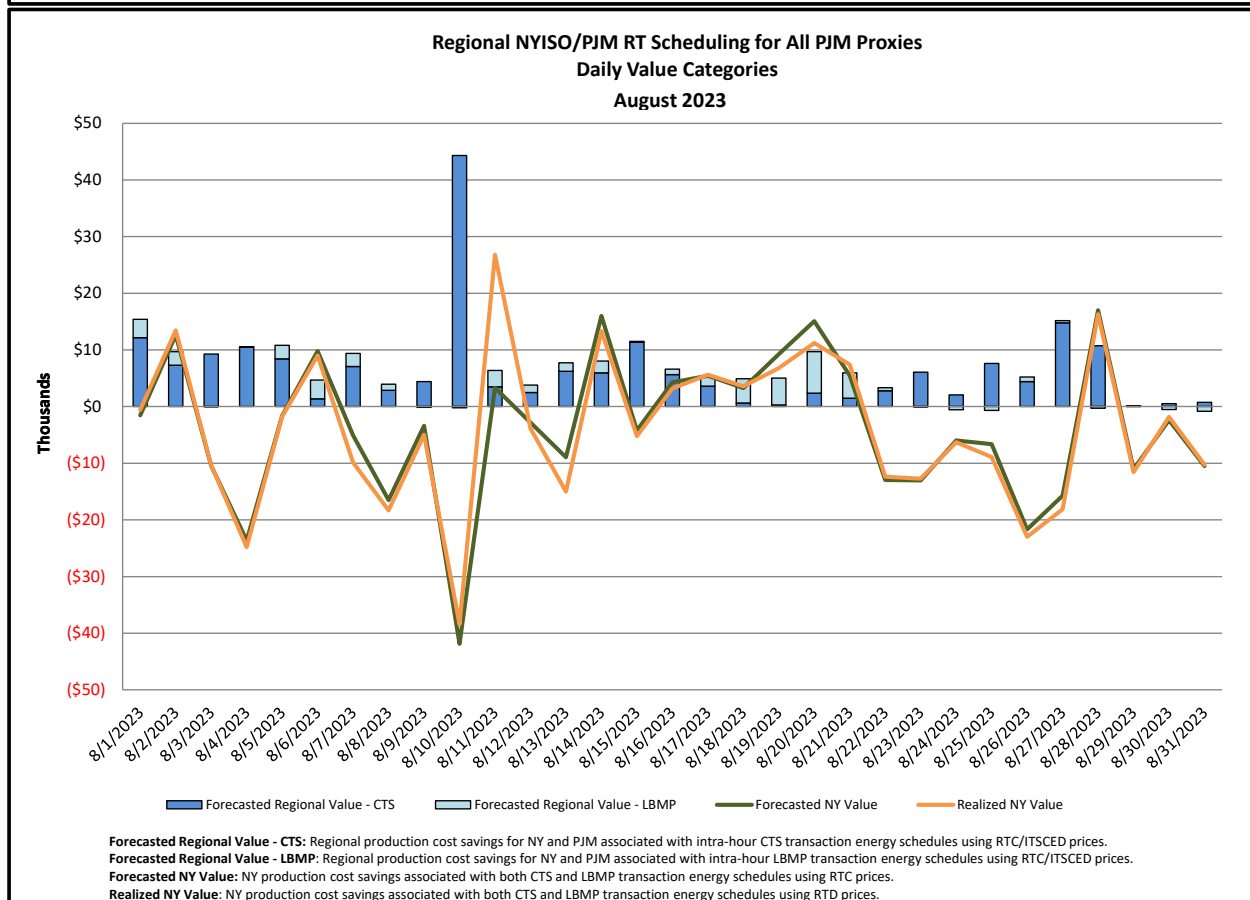
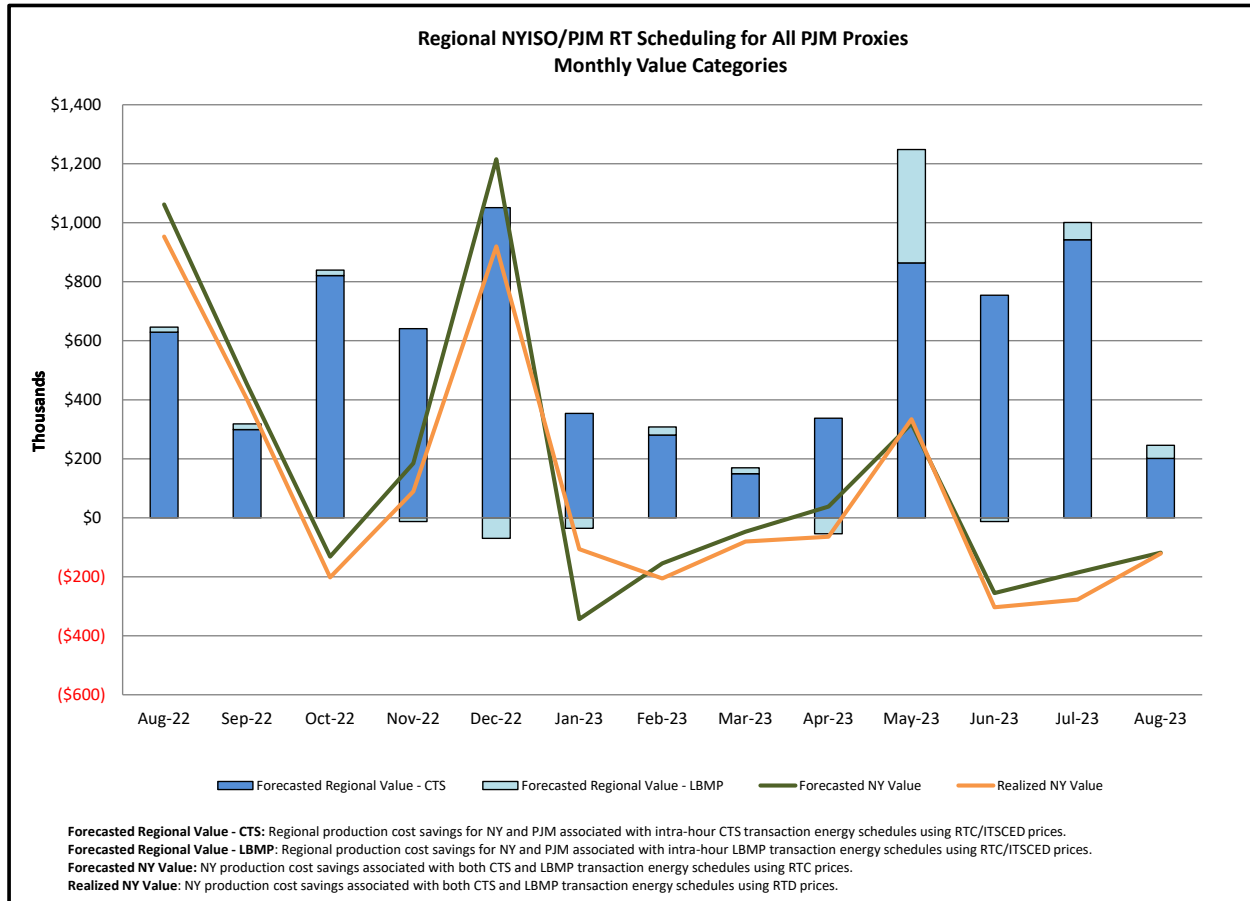
Unavailable Capacity is calculated as the difference of Day-Ahead Market (DAM) capacity relative to Real-Time (RT) capacity during RT peak load hour.



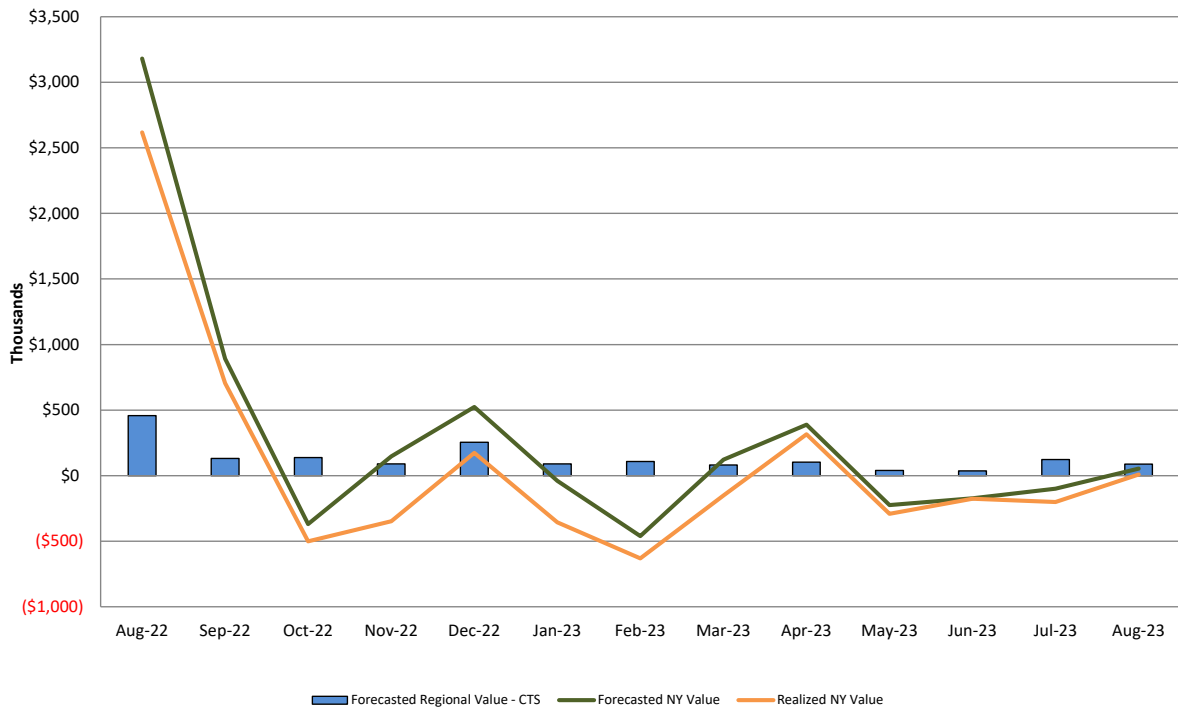
Broader Regional Market Performance Metrics



| <u>PAR Interconnection Congestion Coordination</u> | |
|---|--|
| <u>Category</u> | <u>Description</u> |
| NY | Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY |
| RECO | Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 5018. This is the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018. |
| M2M PAR Settlement | Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017 this value was included in the NY and RECO categories. The positive sign convention indicates settlement to NY while the negative indicates settlement to PJM. |

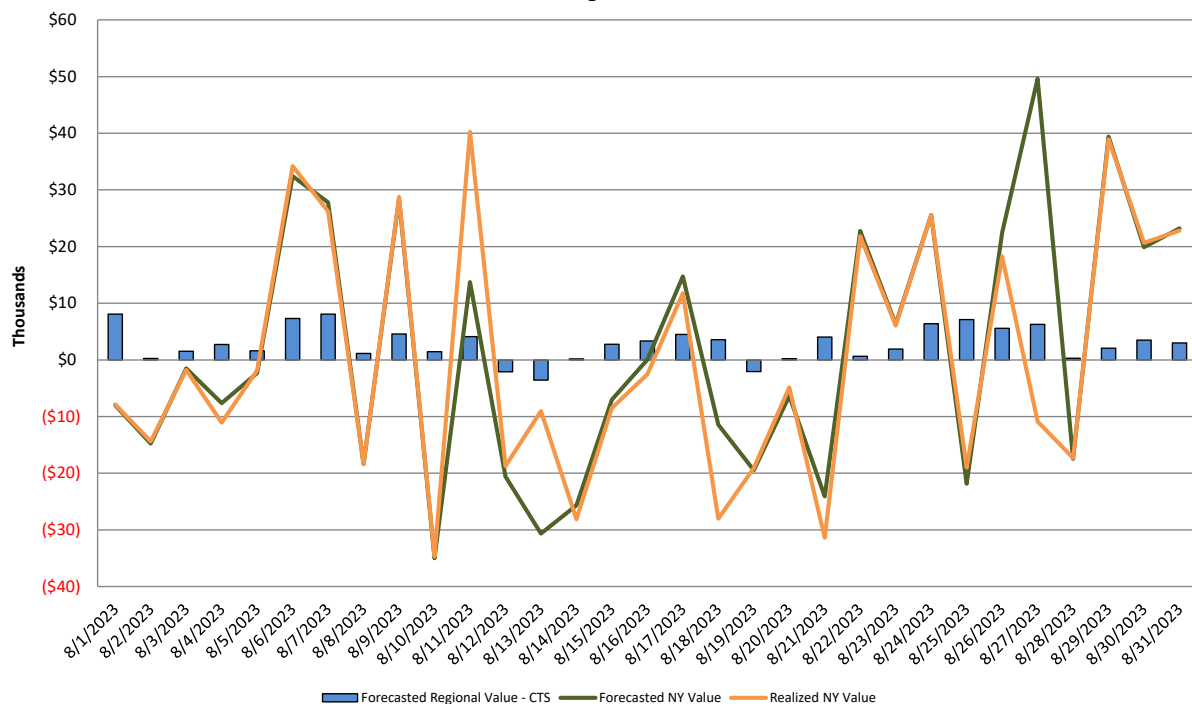


Regional NYISO/NE RT Scheduling for ISO-NE AC Monthly Value Categories



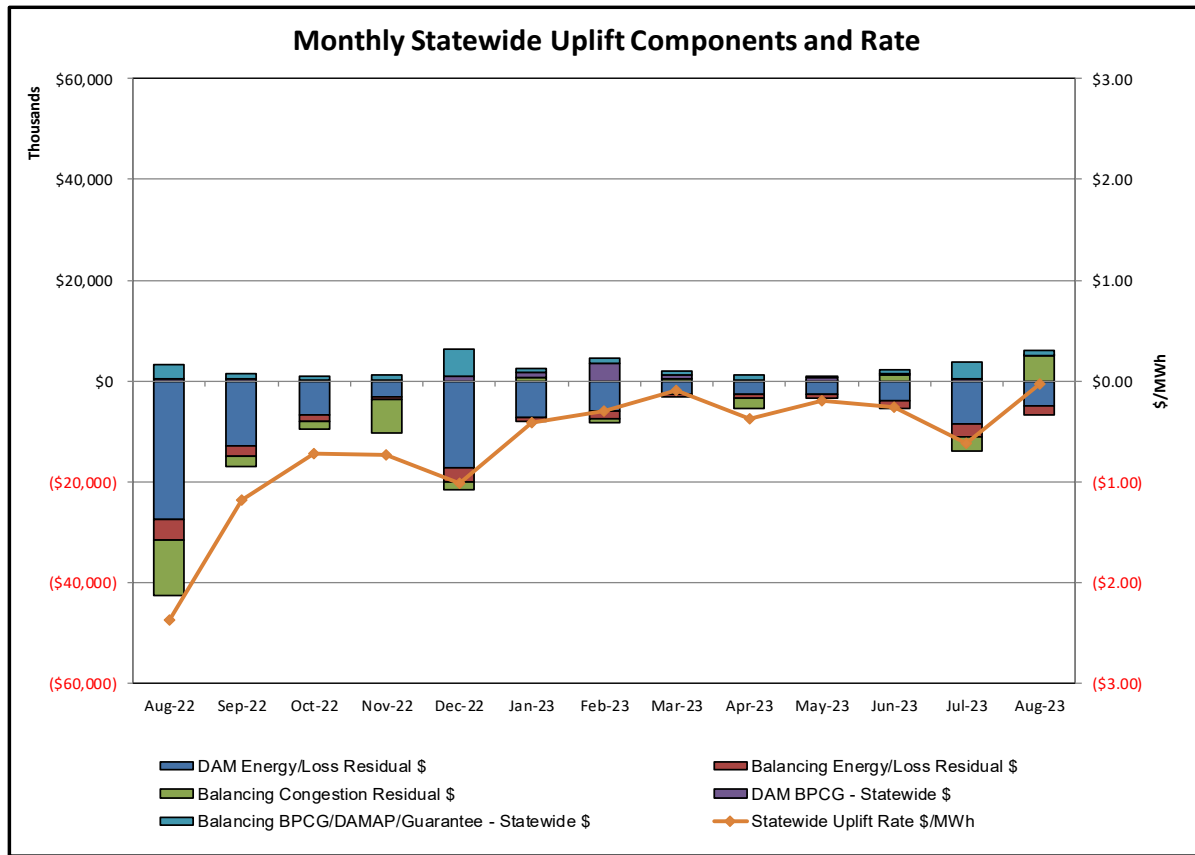
Forecasted Regional Value - CTS: Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices.
Forecasted NY Value: NY production cost savings associated with CTS transaction energy schedules using RTC prices.
Realized NY Value: NY production cost savings associated with CTS transaction energy schedules using RTD prices.

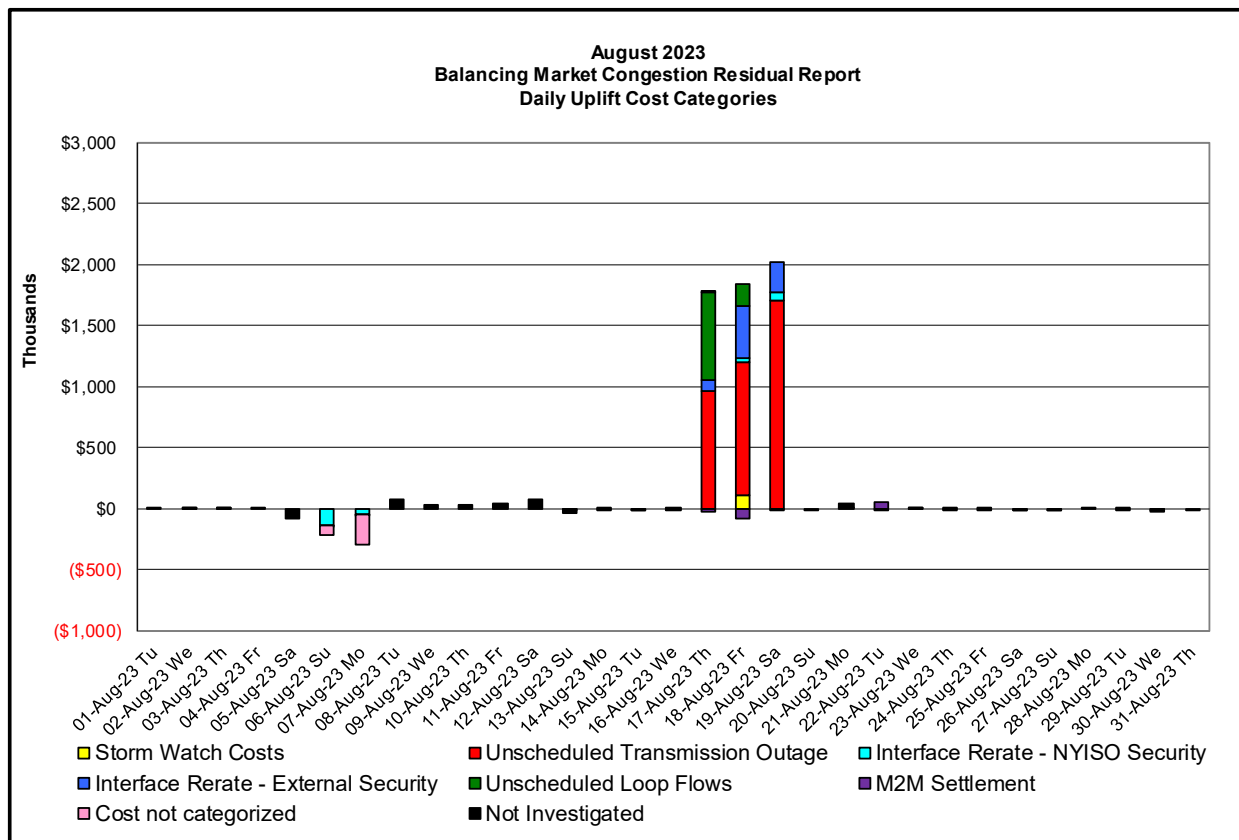
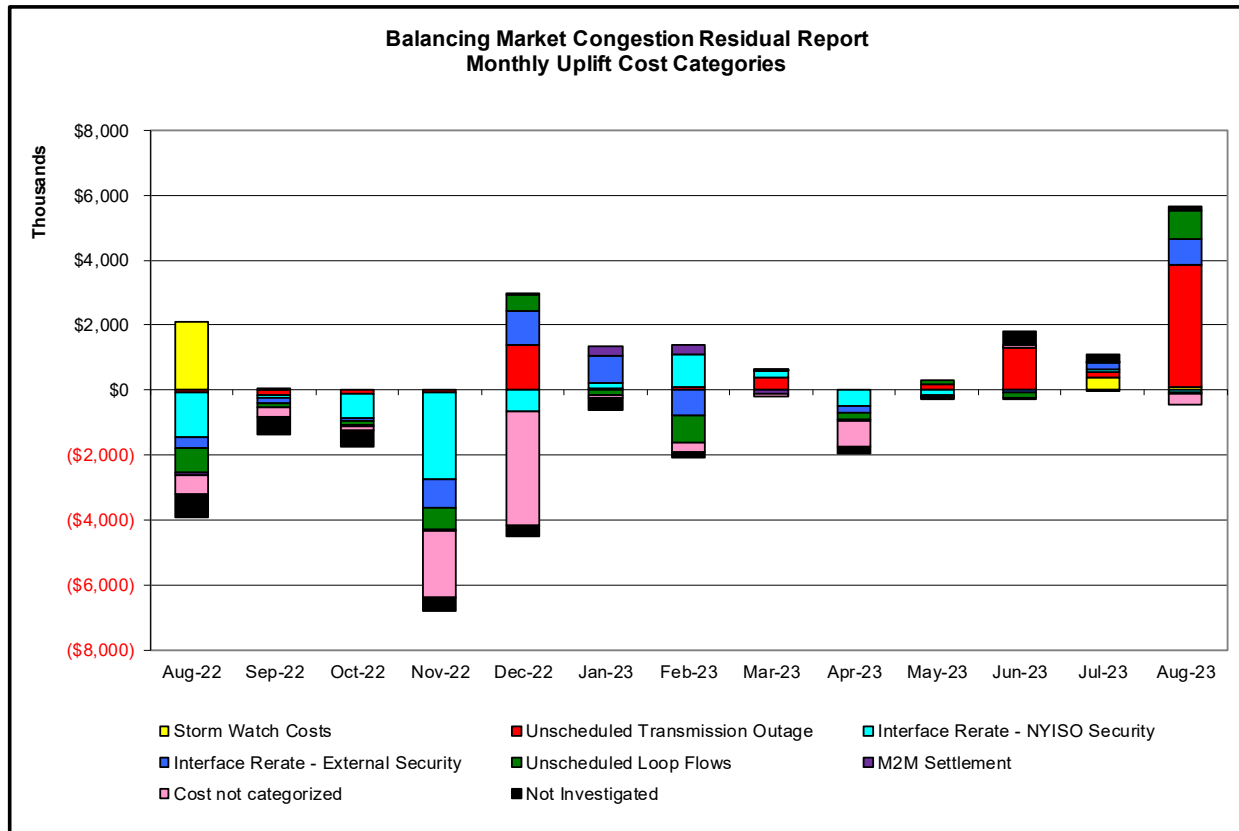
Regional NYISO/NE RT Scheduling for ISO-NE AC Daily Value Categories August 2023



Forecasted Regional Value - CTS: Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices.
Forecasted NY Value: NY production cost savings associated with CTS transaction energy schedules using RTC prices.
Realized NY Value: NY production cost savings associated with CTS transaction energy schedules using RTD prices.

Market Performance Metrics





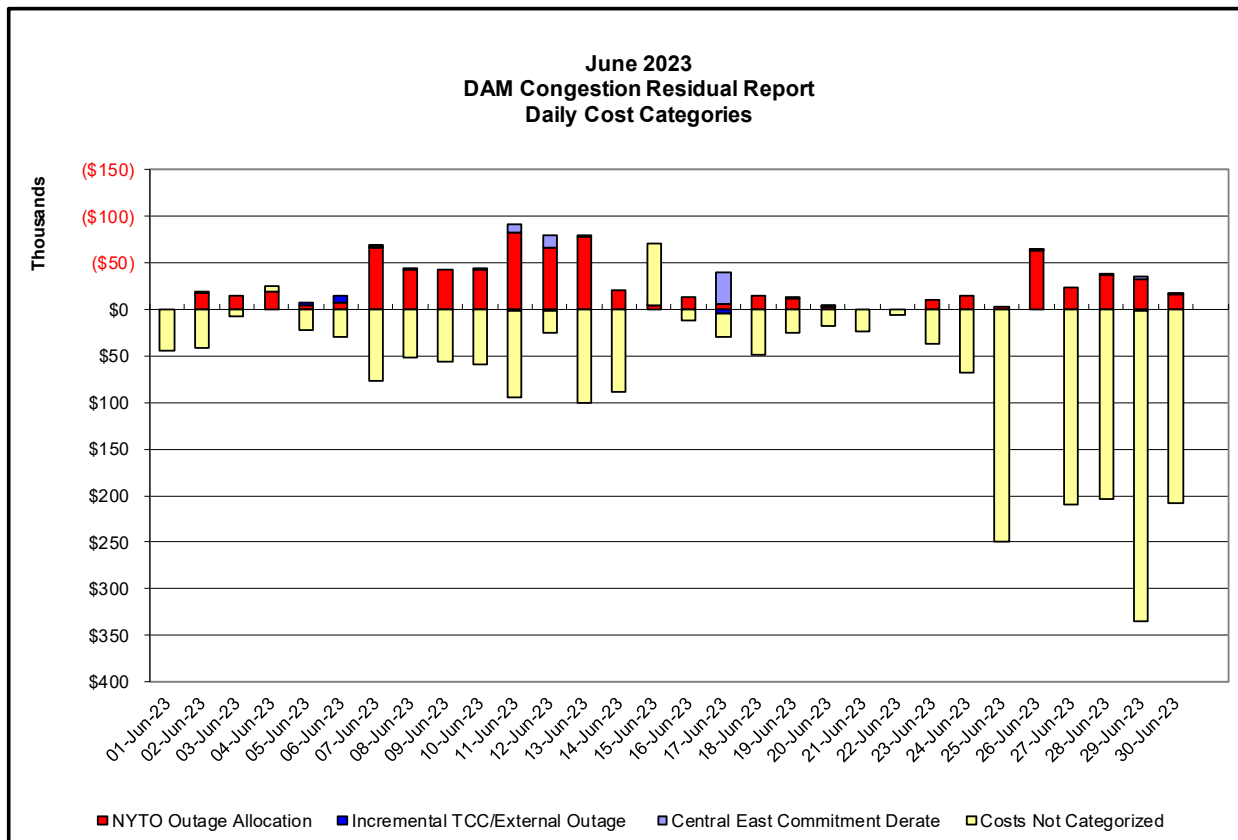
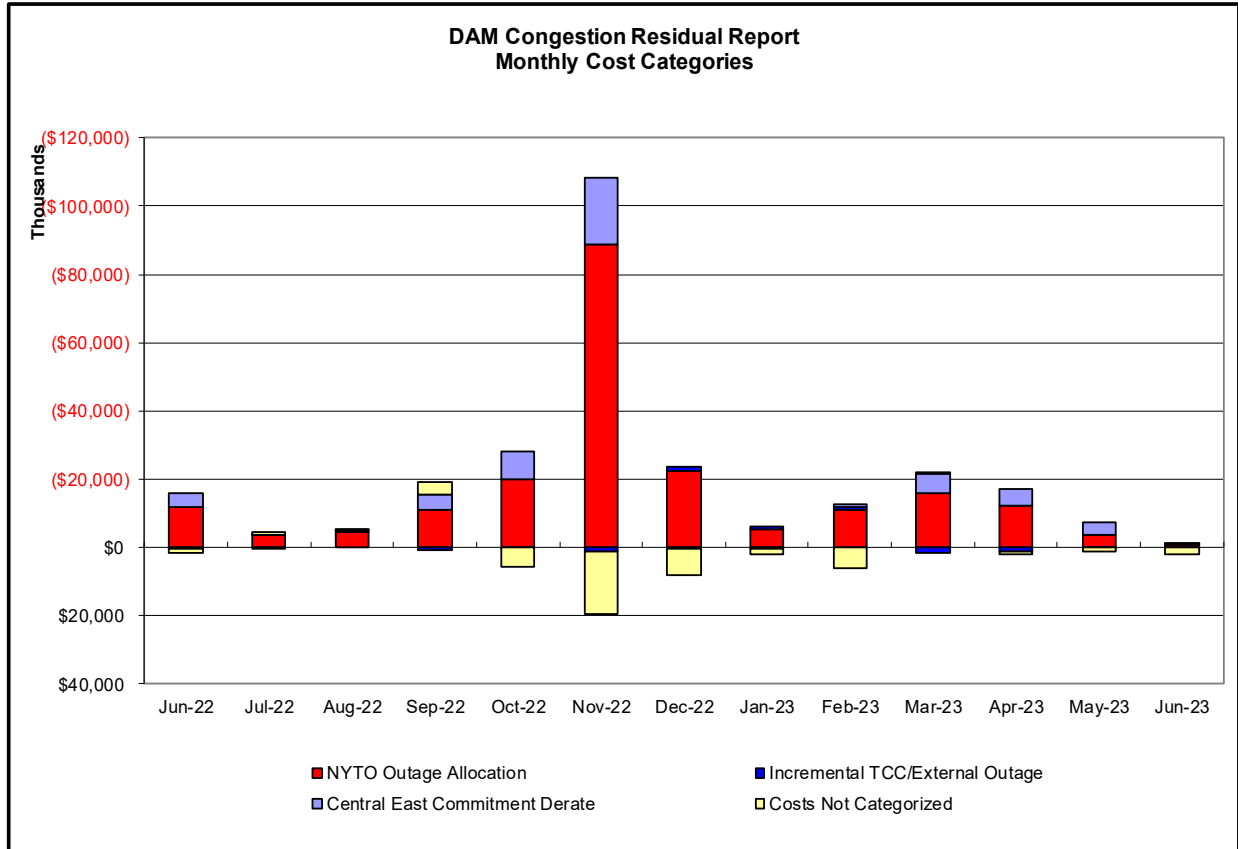
| Day's investigated in August: 6,7,17,18,19 | | | |
|--|-----------------|------------------------|--|
| Event | Date (yyyymmdd) | Hours | Description |
| | 8/6/2023 | 18 | NYCA DNI Ramp Limit |
| | 8/6/2023 | 18 | Uprate Central East |
| | 8/6/2023 | 18,20-23 | Uprate Locust Grove-Newbridge 138kV (#558) |
| | 8/6/2023 | 20-21 | Uprate Scriba-Volney 345kV (#20) I/o Scriba-Volney 345kV (#21) |
| | 8/6/2023 | 14 | IESO AC ACTIVE DNI Ramp Limit |
| | 8/7/2023 | 22 | Uprate East 179th St-Hellgate 138kV (#15055) |
| | 8/7/2023 | 17-19 | Uprate Scriba-Volney 345kV (#20) I/o Scriba-Volney 345kV (#21) |
| | 8/7/2023 | 18 | IESO AC - NY Scheduling Limit |
| | 8/17/2023 | 16-23 | Forced outage Chateaugay-Massena 765kV (#7040) |
| | 8/17/2023 | 16-23 | Forced outage Massena-Marcy 765kV (#MSU1) |
| | 8/17/2023 | 15,23 | NE AC ACTIVE DNI Ramp Limit |
| | 8/17/2023 | 15-19 | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East |
| | 8/18/2023 | 6,7 | Thunder Storm Alert, Linden-Goethals 230kV (#A2253) |
| | 8/18/2023 | 0-23 | Forced outage Chateaugay-Massena 765kV (#7040) |
| | 8/18/2023 | 0-23 | Forced outage Massena-Marcy 765kV (#MSU1) |
| | 8/18/2023 | 12 | NYCA DNI Ramp Limit |
| | 8/18/2023 | 0,5,6,8,11-15,19-21,23 | NE AC ACTIVE DNI Ramp Limit |
| | 8/18/2023 | 12-16,18,19 | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East |
| | 8/19/2023 | 0-23 | Forced outage Massena-Marcy 765kV (#MSU1) |
| | 8/19/2023 | 0-23 | Forced outage Chateaugay-Massena 765kV (#7040) |
| | 8/19/2023 | 14-22 | Forced outage Dunwoodie-Shore Road 345kV (#Y50) |
| | 8/19/2023 | 0,1,14 | NYCA DNI Ramp Limit |
| | 8/19/2023 | 14,15 | NE AC ACTIVE DNI Ramp Limit |
| | 8/19/2023 | 1-4 | HQ CEDARS-NY Scheduling Limit |

Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

| Category | Cost Assignment | Events Types | Event Examples |
|--|-----------------|---|--|
| Storm Watch | Zone J | Thunderstorm Alert (TSA) | TSA Activations |
| Transmission Outage Mismatch | Market-wide | Changes in DAM to RTM transfers related to transmission outage mismatch | Forced Line Outage, Unit AVR Outages Early Line Return from Outage |
| Interface/Facility Rerate - NYISO Security | Market-wide | Changes in DAM to RTM transfers not related to transmission outage | Interface/Facility Rerates due to RTM voltages |
| Interface Rerate - External Security | Market-wide | Changes in DAM to RTM transfers related to External Control Area Security Events | TLR Events, External Transaction Curtailments |
| Unscheduled Loop Flows | Market-wide | Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints | DAM to RTM Lake Erie Loop Flows exceeding +/- 125 MW |
| M2M Settlement | Market-wide | Settlement result inclusive of coordinated redispatch and Ramapo flowgates | |

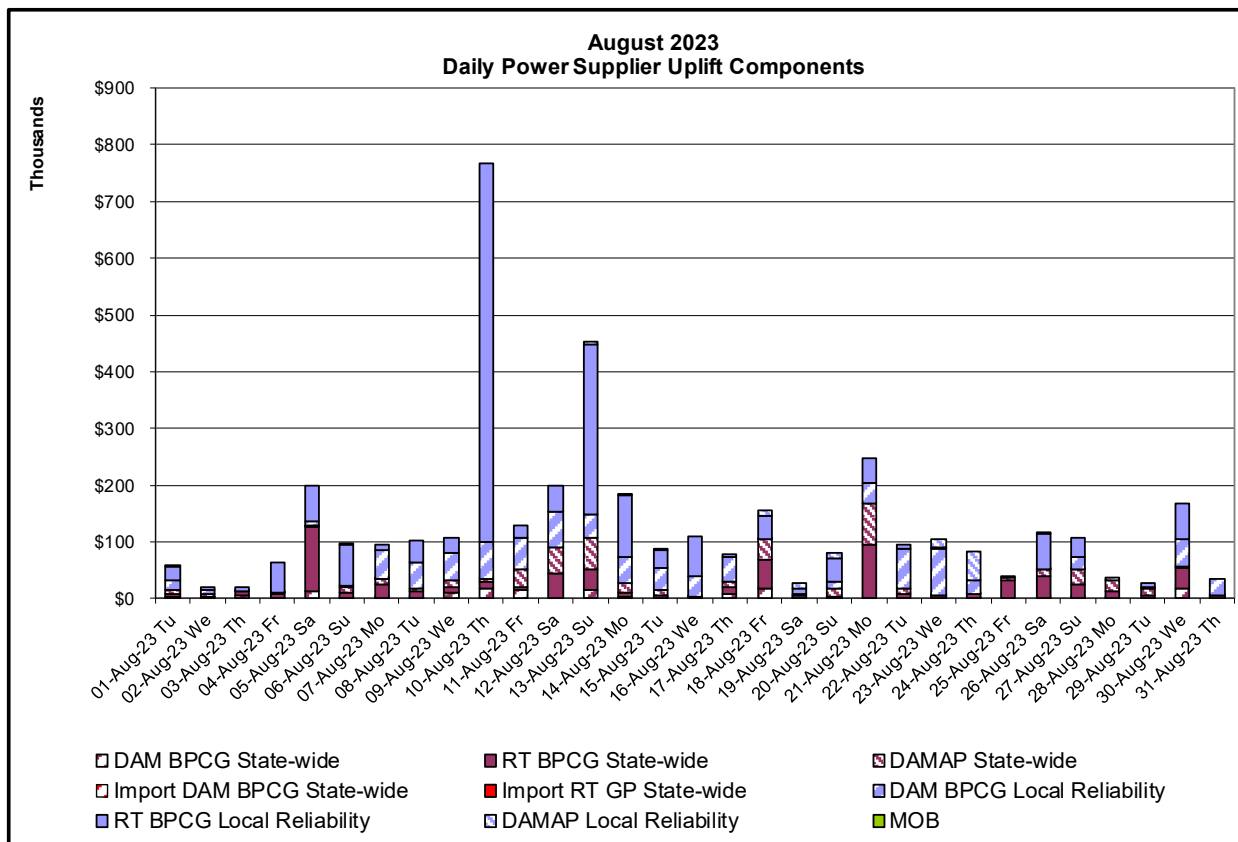
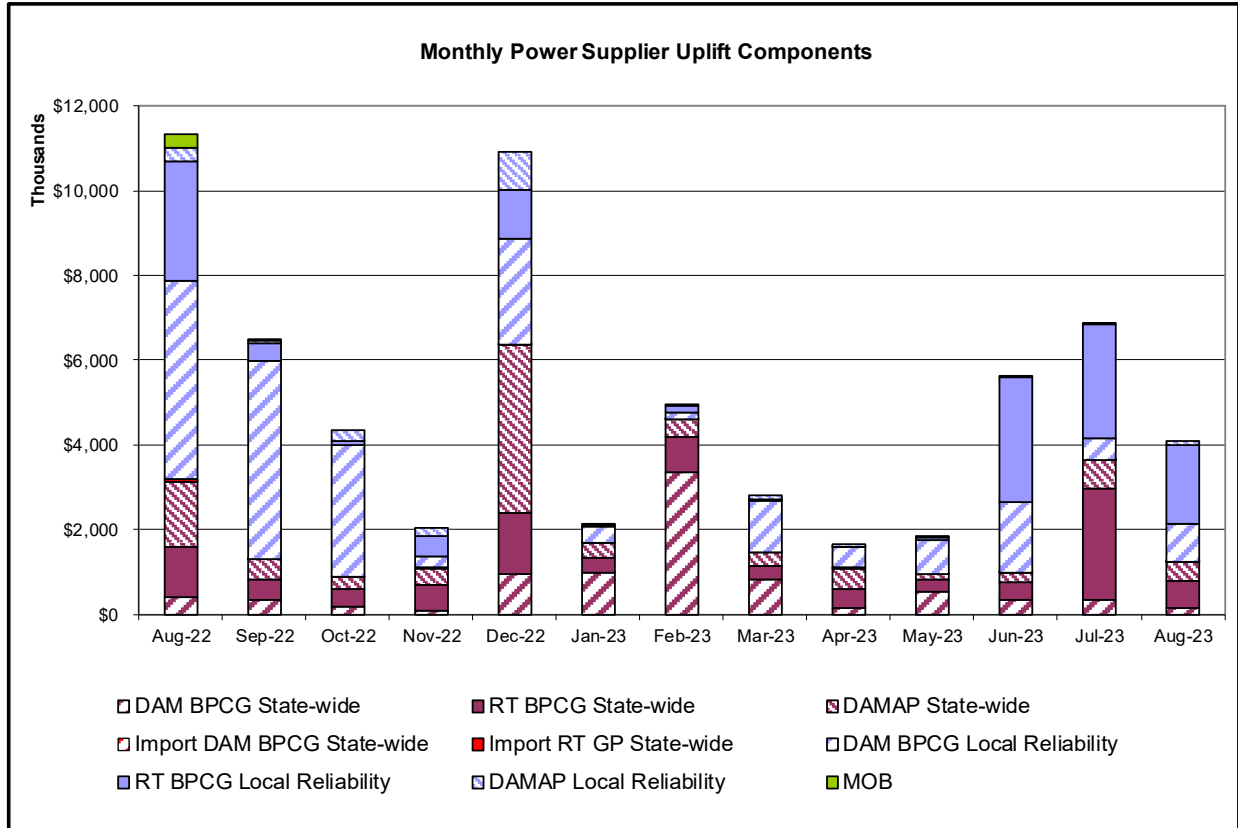
Monthly Balancing Market Congestion Report Assumptions/Notes

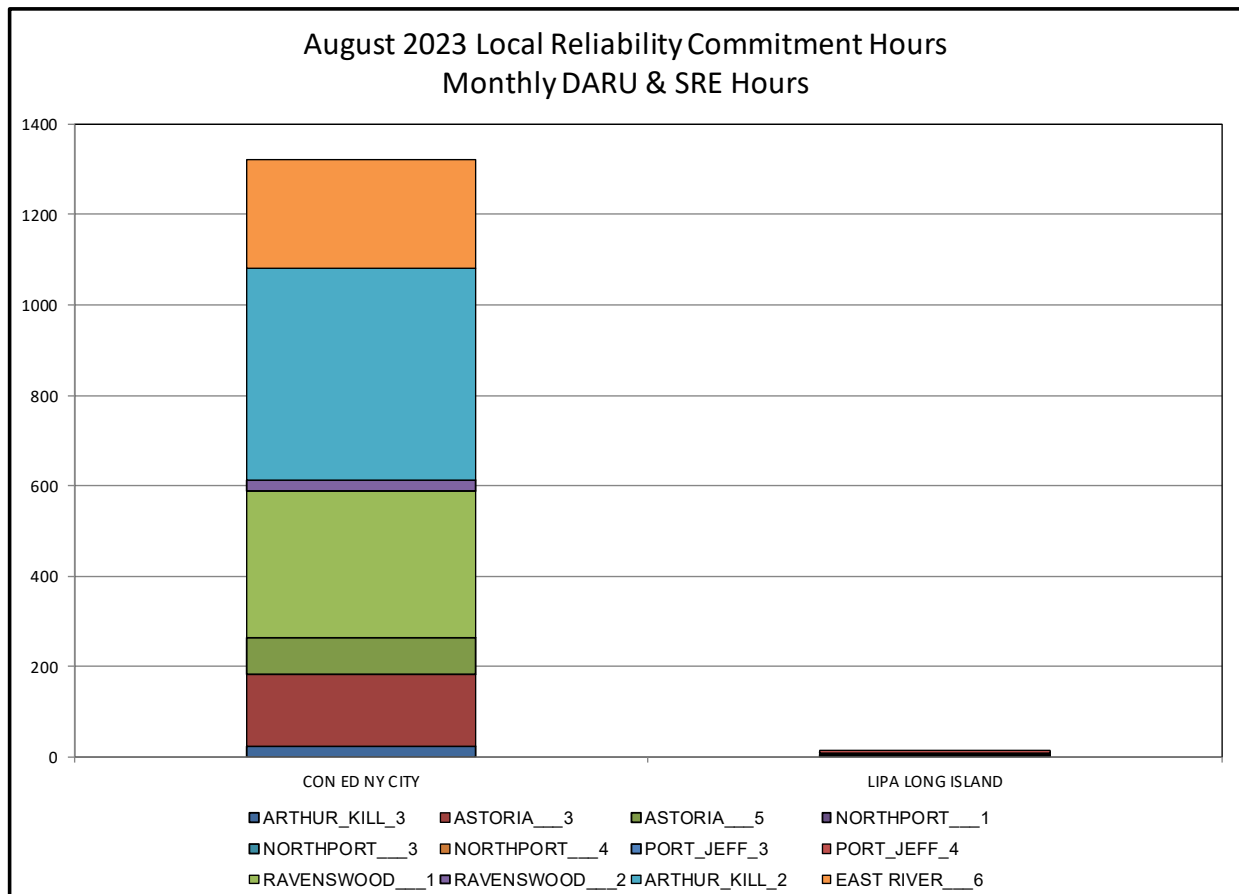
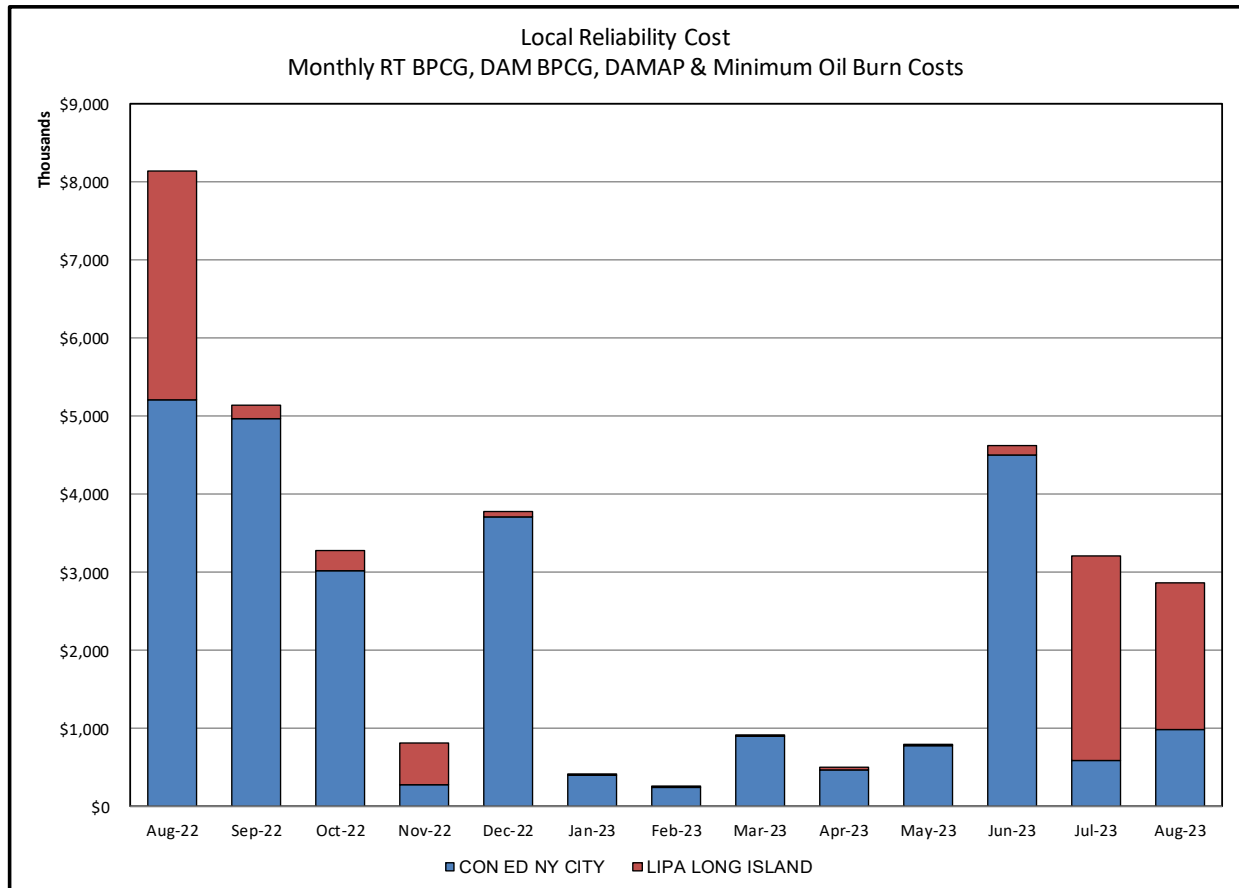
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

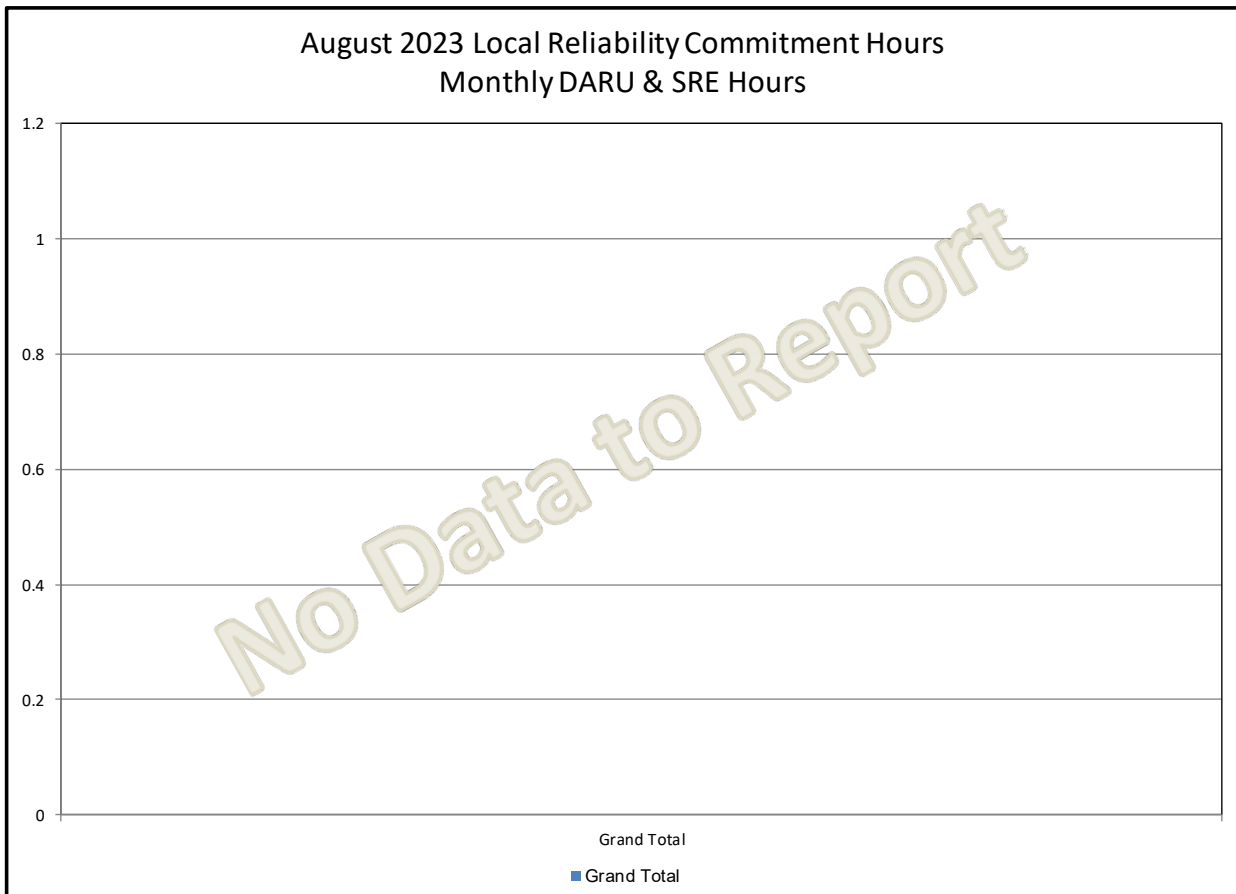
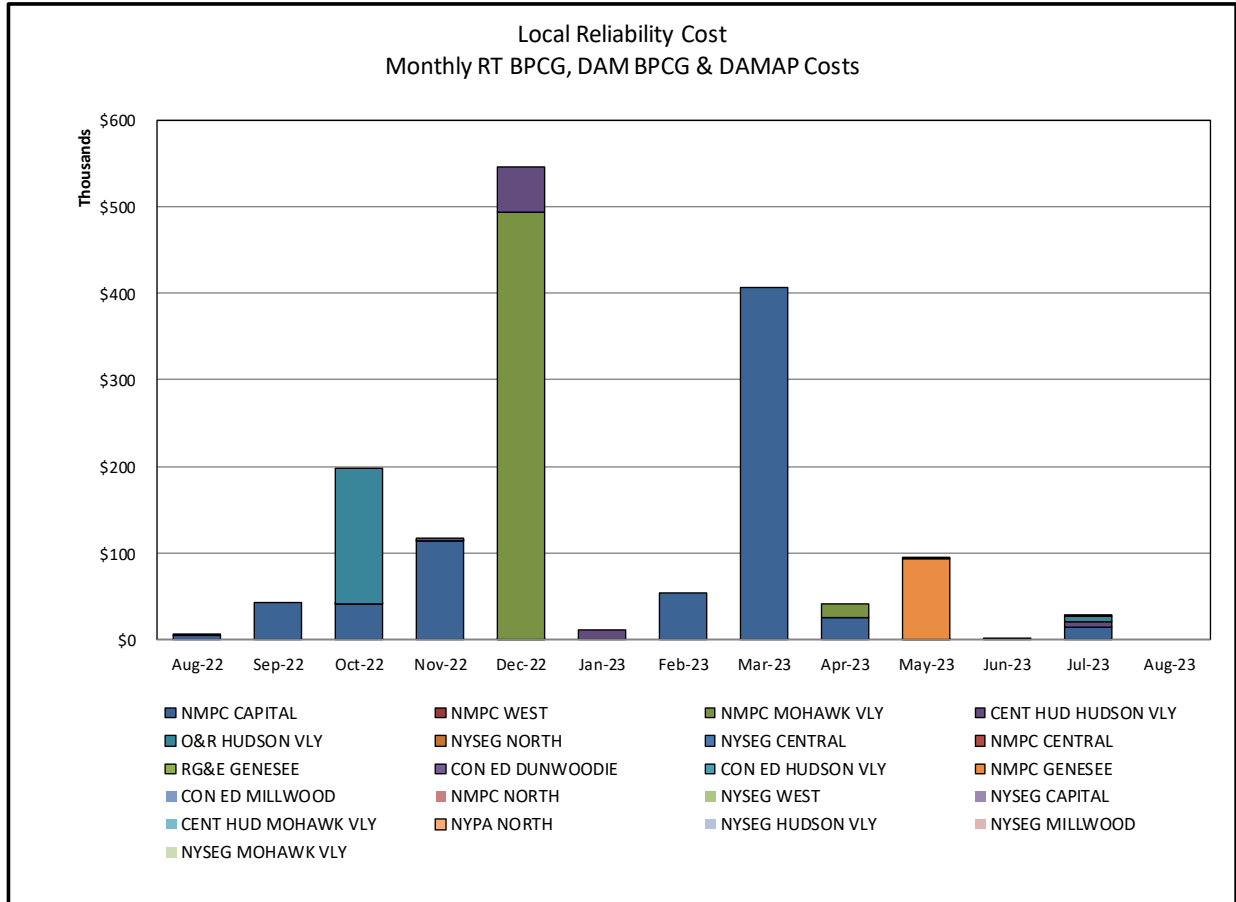


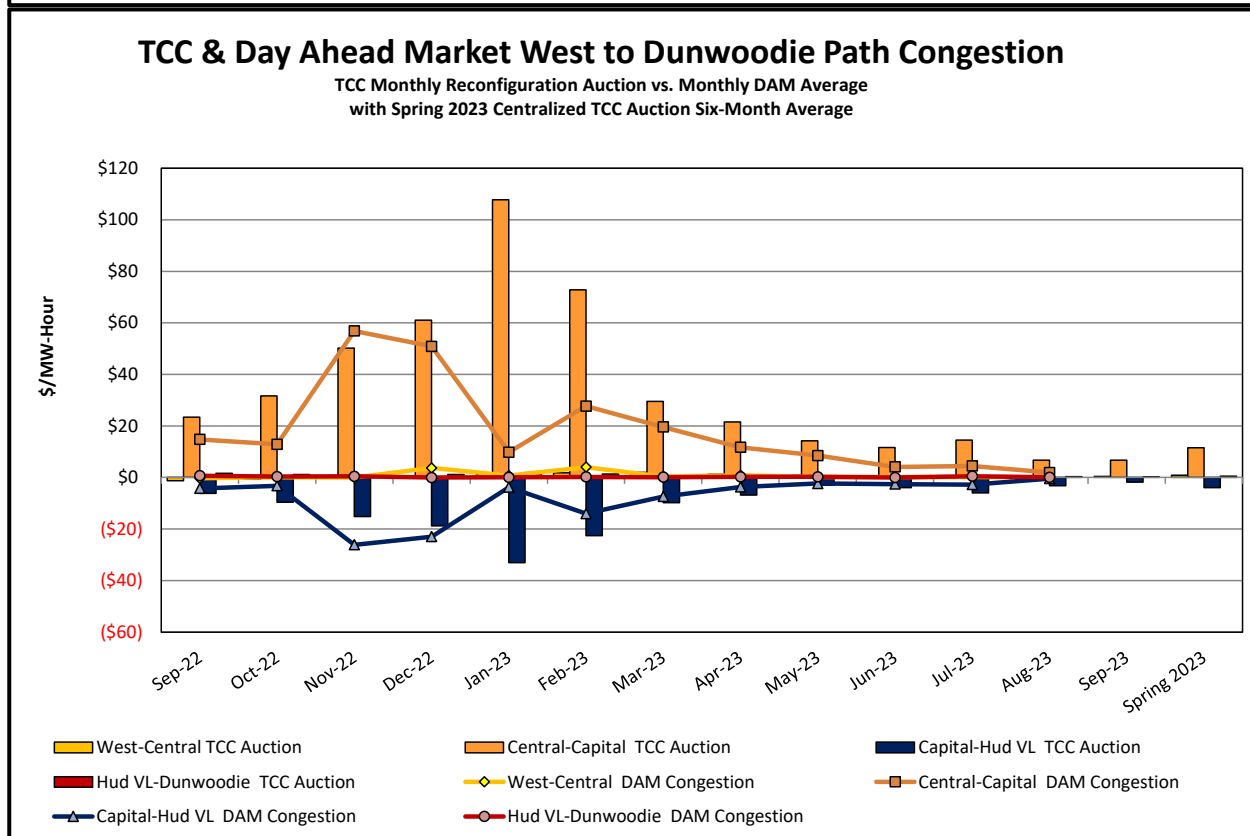
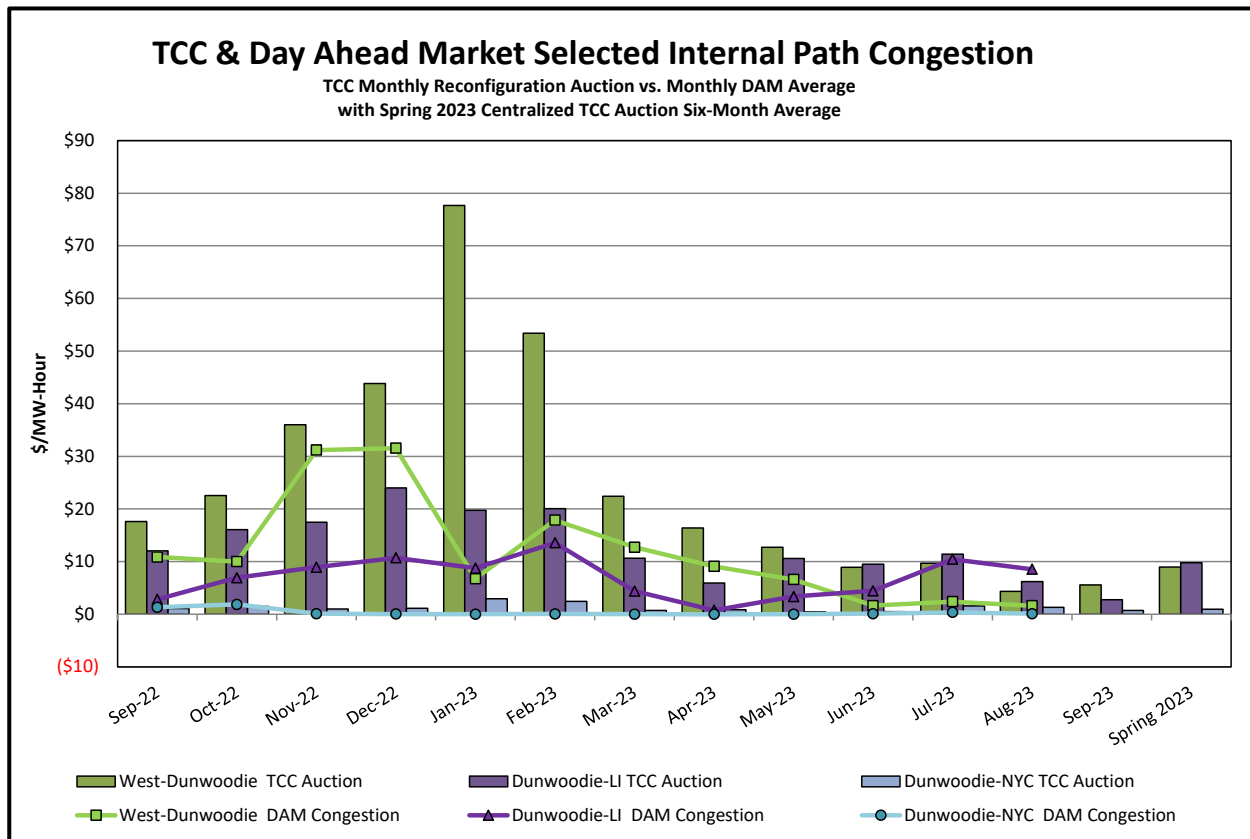
Day-Ahead Market Congestion Residual Categories

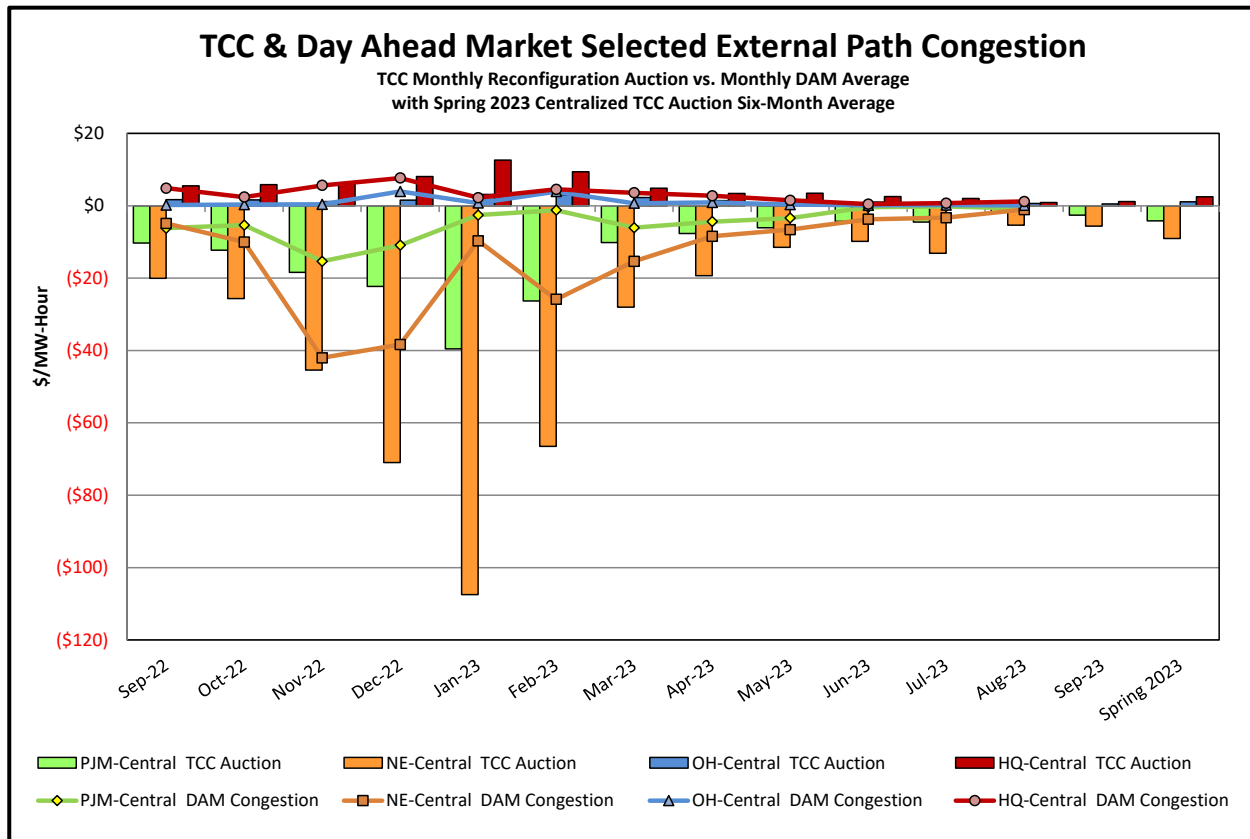
| <u>Category</u> | <u>Cost Assignment</u> | <u>Events Types</u> | <u>Event Examples</u> |
|---|-------------------------------------|--|--|
| NYTO Outage Allocation | Responsible TO | Direct allocation to NYTO's responsible for transmission equipment status change. | DAM scheduled outage for equipment modeled in-service for the TCC Auction. |
| Incremental TCC/External Outage Impacts | All TO by Monthly Allocation Factor | Allocation associated with transmission equipment status change caused by change in status of external equipment or change in status of equipment associated with Incremental TCC. | Tie line required out-of-service by TO of neighboring control area. |
| Central East Commitment Derate | All TO by Monthly Allocation Factor | Reductions in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages. | |

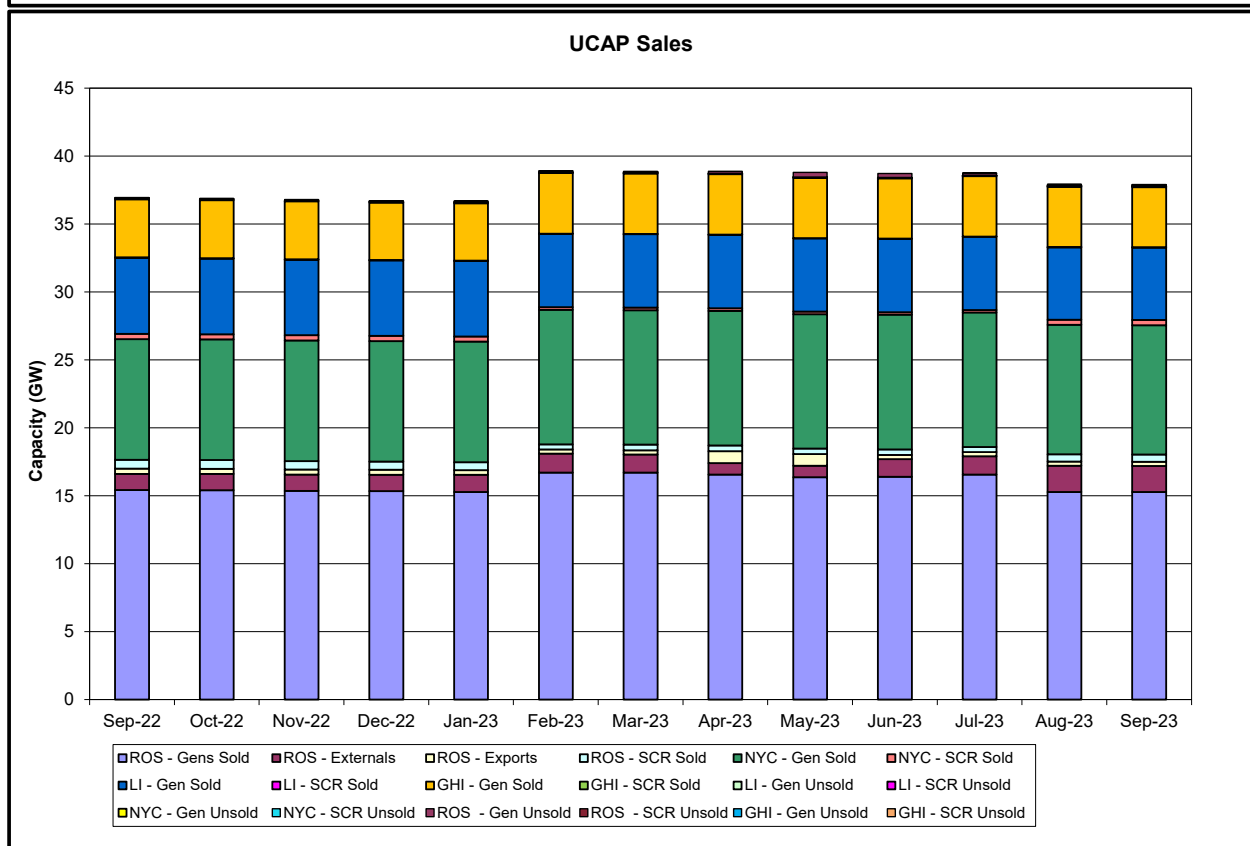
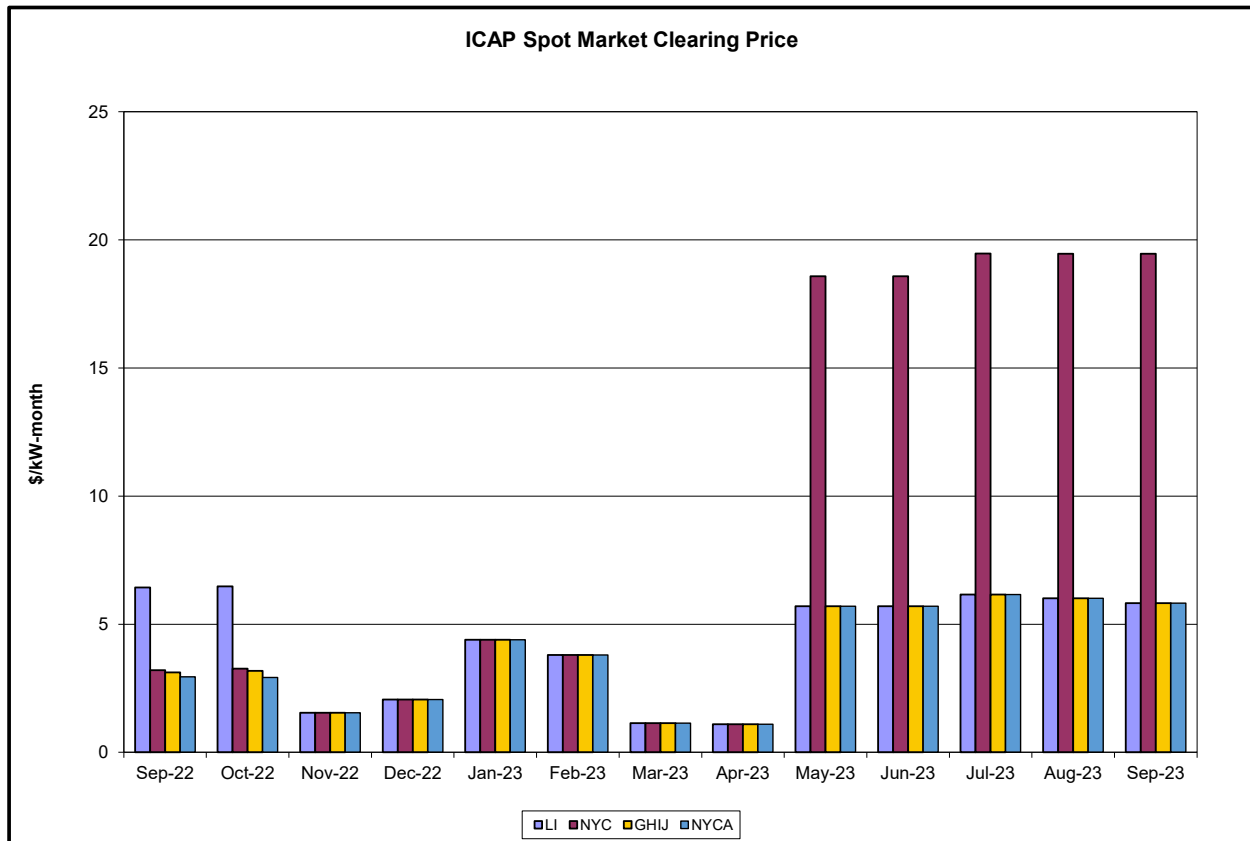










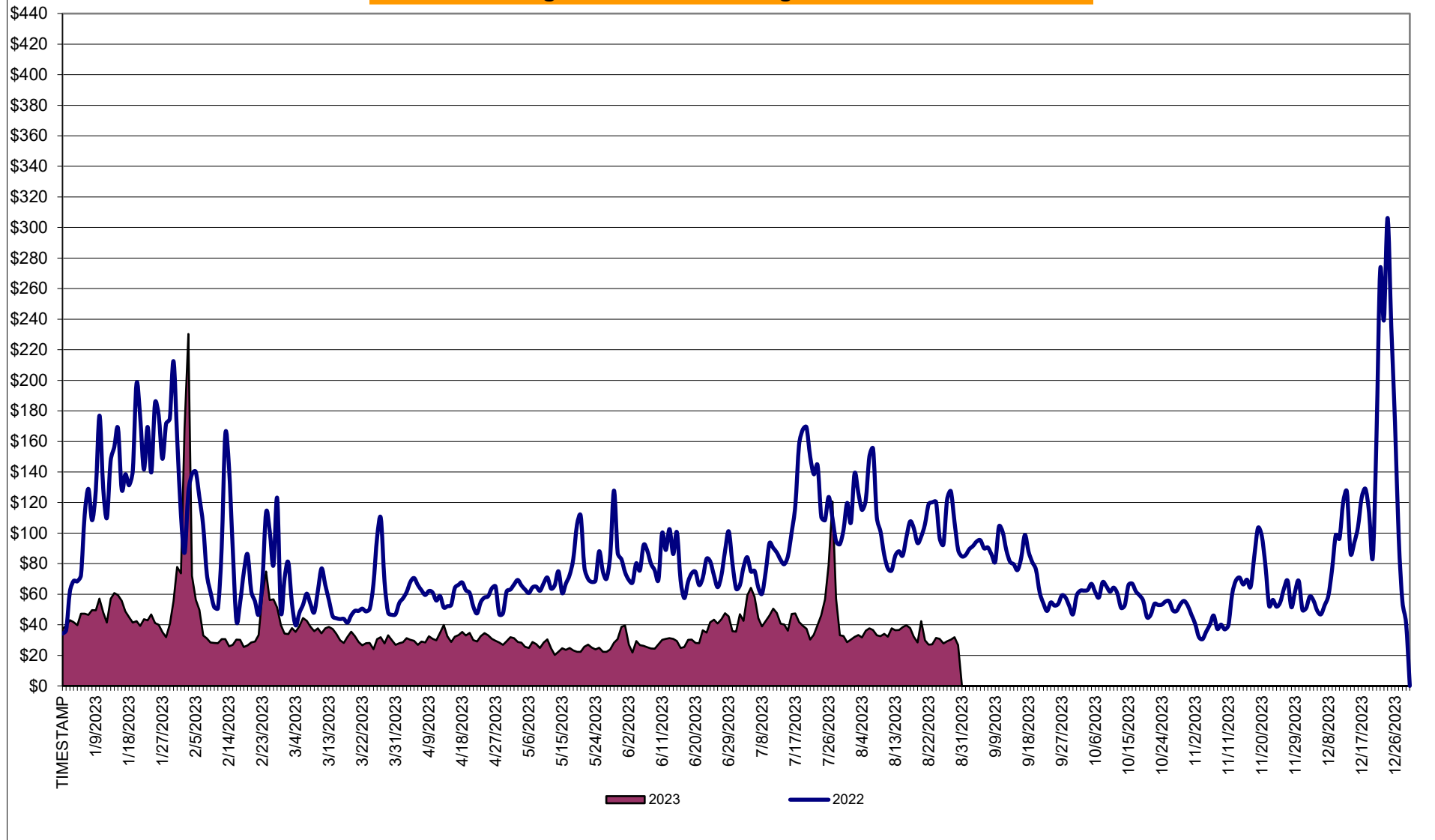


Market Performance Highlights

August 2023

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

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



* Excludes ICAP payments.

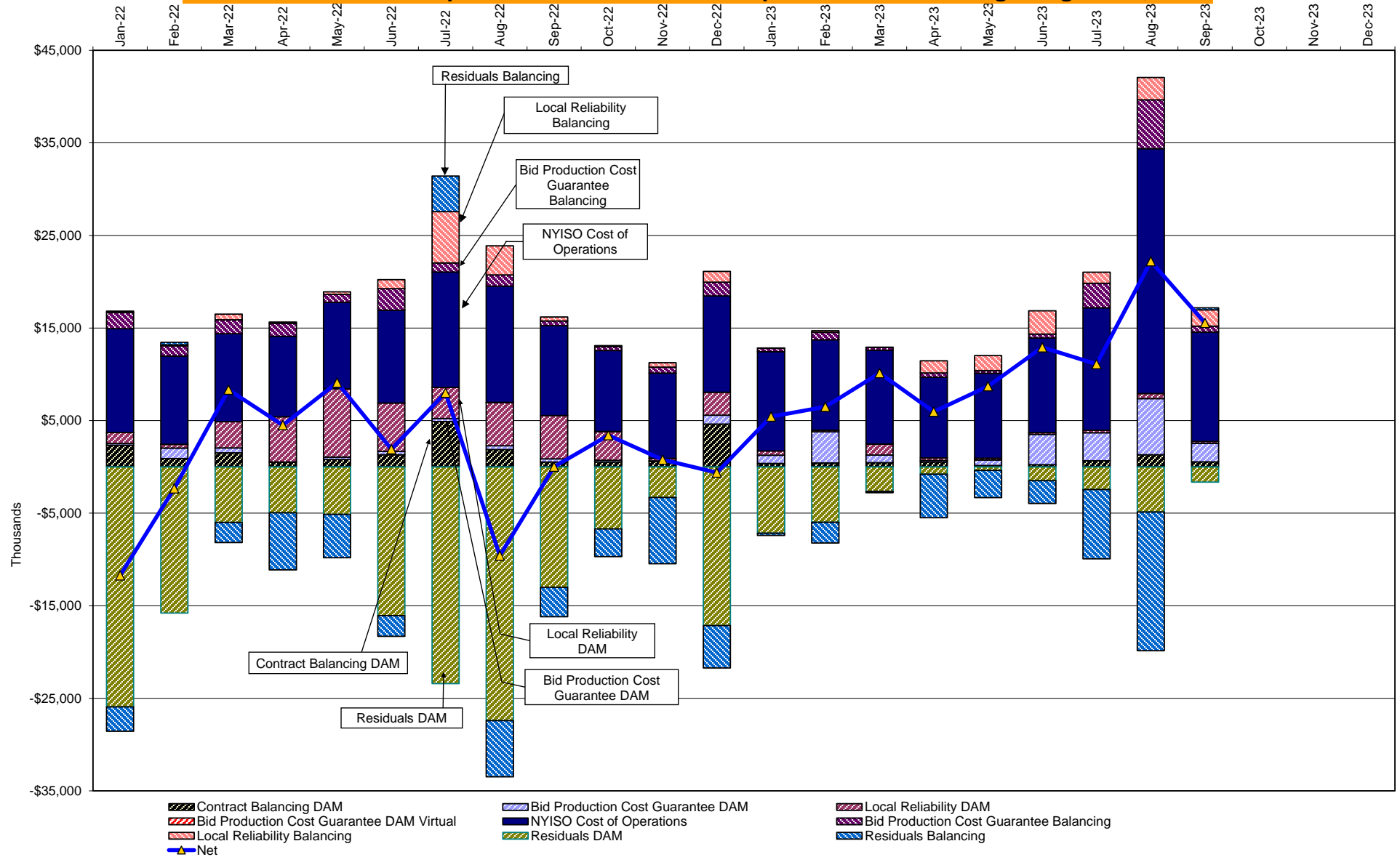
NYISO Average Cost/MWh (Energy and Ancillary Services) *
from the LBMP Customer point of view

| 2023 | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|---------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| LBMP | 42.10 | 55.47 | 31.11 | 28.07 | 23.13 | 29.85 | 45.70 | 29.95 | | | | |
| NTAC | 2.82 | 1.15 | 1.39 | 1.72 | 1.38 | 1.62 | 1.79 | 1.74 | | | | |
| Reserve | 0.72 | 0.90 | 0.73 | 0.85 | 0.81 | 0.69 | 0.76 | 0.56 | | | | |
| Regulation | 0.09 | 0.13 | 0.13 | 0.15 | 0.12 | 0.10 | 0.10 | 0.09 | | | | |
| NYISO Cost of Operations | 0.77 | 0.77 | 0.77 | 0.78 | 0.78 | 0.78 | 0.80 | 0.80 | | | | |
| FERC Fee Recovery | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.09 | 0.06 | 0.07 | | | | |
| Uplift | (0.38) | (0.27) | (0.00) | (0.34) | (0.13) | 0.09 | (0.43) | 0.16 | | | | |
| Uplift: Local Reliability Share | 0.03 | 0.03 | 0.09 | 0.04 | 0.07 | 0.35 | 0.20 | 0.19 | | | | |
| Uplift: Statewide Share | (0.41) | (0.30) | (0.10) | (0.38) | (0.20) | (0.26) | (0.62) | (0.03) | | | | |
| Voltage Support and Black Start | 0.42 | 0.42 | 0.43 | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 | | | | |
| Avg Monthly Cost | 46.56 | 58.58 | 34.58 | 31.67 | 26.55 | 33.60 | 49.17 | 33.76 | | | | |
| Avg YTD Cost | 46.64 | 52.36 | 46.65 | 43.45 | 40.45 | 39.27 | 41.18 | 40.13 | | | | |
| TSA \$ per NYC MWh | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.74 | 0.07 | | | | |
| 2022 | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| LBMP | 134.79 | 94.06 | 56.78 | 56.46 | 70.60 | 76.72 | 99.47 | 108.85 | 78.91 | 53.11 | 52.47 | 110.17 |
| NTAC | 1.43 | 0.95 | 1.48 | 1.17 | 2.46 | 2.07 | 3.65 | 1.69 | 1.44 | 3.21 | 3.91 | 2.23 |
| Reserve | 1.26 | 1.21 | 0.83 | 0.81 | 0.74 | 0.66 | 0.87 | 0.65 | 0.86 | 1.02 | 0.89 | 0.49 |
| Regulation | 0.27 | 0.19 | 0.17 | 0.12 | 0.13 | 0.15 | 0.12 | 0.13 | 0.18 | 0.18 | 0.15 | 0.12 |
| NYISO Cost of Operations | 0.73 | 0.72 | 0.74 | 0.74 | 0.74 | 0.75 | 0.76 | 0.76 | 0.76 | 0.73 | 0.74 | 0.73 |
| FERC Fee Recovery | 0.07 | 0.08 | 0.09 | 0.10 | 0.09 | 0.08 | 0.06 | 0.06 | 0.09 | 0.10 | 0.09 | 0.08 |
| Uplift | (1.50) | (1.73) | (0.09) | (0.36) | (0.05) | (0.61) | (1.58) | (1.91) | (0.78) | (0.45) | (0.68) | (0.77) |
| Uplift: Local Reliability Share | 0.09 | 0.04 | 0.27 | 0.43 | 0.60 | 0.46 | 0.54 | 0.47 | 0.39 | 0.27 | 0.06 | 0.25 |
| Uplift: Statewide Share | (1.59) | (1.77) | (0.36) | (0.79) | (0.65) | (1.07) | (2.12) | (2.38) | (1.18) | (0.72) | (0.74) | (1.02) |
| Voltage Support and Black Start | 0.42 | 0.41 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.44 | 0.42 | 0.42 | 0.42 |
| Avg Monthly Cost | 137.41 | 95.82 | 60.34 | 59.38 | 75.07 | 80.17 | 103.73 | 110.61 | 81.81 | 58.26 | 57.91 | 113.40 |
| Avg YTD Cost | 137.49 | 118.36 | 100.65 | 91.92 | 88.82 | 87.37 | 90.31 | 93.42 | 92.27 | 89.47 | 86.97 | 89.23 |
| TSA \$ per NYC MWh | 0.00 | 2.98 | 0.00 | 0.00 | 0.11 | 0.00 | 3.98 | 1.70 | 0.06 | 0.00 | 0.00 | 0.01 |

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

As of Jan. 2016, the annual FERC fee is recovered separately from Cost of Ops.

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



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches.

DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart.

DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

NYISO Markets Transactions

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

| <u>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| Day Ahead Market MWh | 14,327,101 | 12,477,485 | 12,137,757 | 10,992,578 | 12,176,102 | 12,945,740 | 15,905,937 | 15,770,210 | 12,467,212 | 11,527,745 | 11,952,855 | 13,768,799 |
| DAM LSE Internal LBMP Energy Sales | 57% | 56% | 59% | 56% | 55% | 60% | 64% | 63% | 62% | 58% | 56% | 56% |
| DAM External TC LBMP Energy Sales | 7% | 8% | 3% | 5% | 6% | 3% | 3% | 3% | 2% | 3% | 4% | 6% |
| DAM Bilateral - Internal Bilaterals | 28% | 28% | 29% | 31% | 31% | 29% | 26% | 26% | 27% | 30% | 31% | 29% |
| DAM Bilateral - Import/Non-LBMP Market Bilaterals | 4% | 4% | 4% | 5% | 4% | 4% | 4% | 5% | 6% | 5% | 5% | 5% |
| DAM Bilateral - Export/Non-LBMP Market Bilaterals | 2% | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 2% | 2% | 2% | 2% |
| DAM Bilateral - Wheel Through Bilaterals | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% |
| Balancing Energy Market MWh | 942,823 | 742,449 | 758,386 | 772,666 | 378,503 | 464,231 | 567,602 | 785,464 | 361,883 | 379,932 | 519,117 | 528,939 |
| Balancing Energy LSE Internal LBMP Energy Sales | 88% | 83% | 76% | 60% | 65% | 66% | 72% | 86% | 66% | 45% | 38% | 45% |
| Balancing Energy External TC LBMP Energy Sales | 16% | 19% | 24% | 33% | 32% | 36% | 23% | 14% | 34% | 55% | 58% | 56% |
| Balancing Energy Bilateral - Internal Bilaterals | 1% | 2% | 2% | 0% | 5% | 2% | 1% | 0% | 1% | 0% | 2% | 2% |
| Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals | 0% | 0% | 0% | 0% | 2% | 2% | 2% | 0% | 0% | 0% | 0% | 0% |
| Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals | 4% | 9% | 8% | 7% | 9% | 8% | 6% | 3% | 5% | 7% | 7% | 5% |
| Balancing Energy Bilateral - Wheel Through Bilaterals | -9% | -13% | -10% | -1% | -12% | -14% | -4% | -3% | -5% | -7% | -5% | -8% |
| Transactions Summary | | | | | | | | | | | | |
| LBMP | 67% | 66% | 65% | 62% | 63% | 64% | 68% | 68% | 65% | 62% | 62% | 64% |
| Internal Bilaterals | 26% | 27% | 27% | 29% | 30% | 28% | 25% | 25% | 27% | 29% | 29% | 28% |
| Import Bilaterals | 3% | 4% | 4% | 4% | 4% | 4% | 3% | 4% | 6% | 5% | 5% | 5% |
| Export Bilaterals | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 1% | 2% | 2% | 2% | 2% |
| Wheels Through | 1% | 1% | 2% | 2% | 2% | 2% | 1% | 1% | 2% | 1% | 2% | 2% |
| Market Share of Total Load | | | | | | | | | | | | |
| Day Ahead Market | 93.8% | 94.4% | 94.1% | 93.4% | 97.0% | 96.5% | 96.6% | 95.3% | 97.2% | 96.8% | 95.8% | 96.3% |
| Balancing Energy + | 6.2% | 5.6% | 5.9% | 6.6% | 3.0% | 3.5% | 3.4% | 4.7% | 2.8% | 3.2% | 4.2% | 3.7% |
| Total MWh | 15,269,924 | 13,219,933 | 12,896,143 | 11,765,244 | 12,554,605 | 13,409,971 | 16,473,538 | 16,555,674 | 12,829,095 | 11,907,677 | 12,471,972 | 14,297,738 |
| Average Daily Energy Sendout/Month GWh | 451 | 429 | 390 | 359 | 372 | 422 | 509 | 514 | 411 | 359 | 382 | 421 |

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

* The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

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

NYISO Markets 2023 Energy Statistics

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

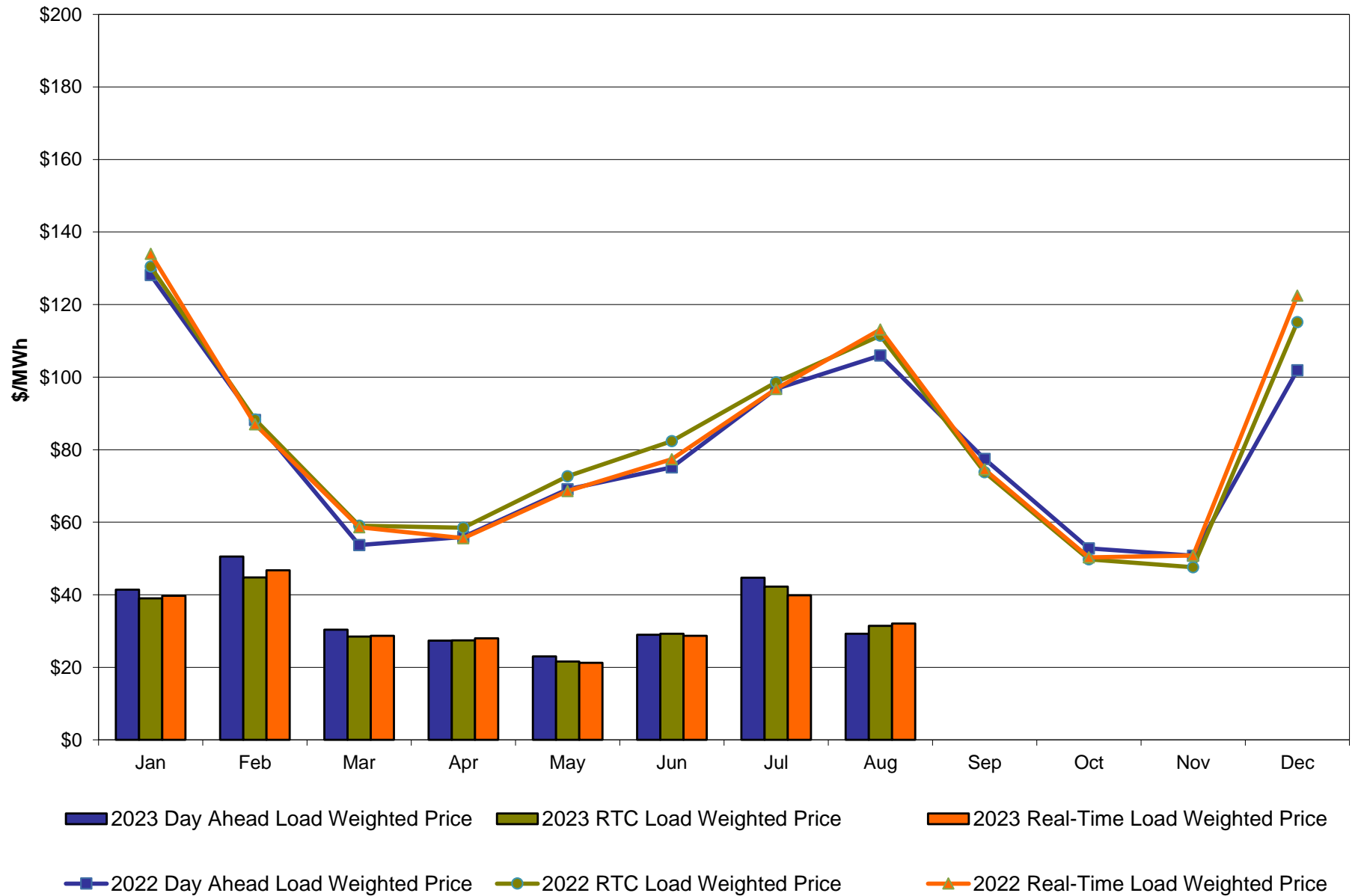
NYISO Markets 2022 Energy Statistics

| | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | | |
| Price * | \$124.39 | \$85.98 | \$52.41 | \$55.23 | \$66.11 | \$72.43 | \$90.42 | \$100.71 | \$74.23 | \$51.77 | \$49.08 | \$98.20 |
| Standard Deviation | \$51.94 | \$39.56 | \$18.64 | \$11.05 | \$21.60 | \$19.84 | \$40.00 | \$33.52 | \$22.13 | \$11.85 | \$20.31 | \$64.21 |
| Load Weighted Price ** | \$128.16 | \$88.17 | \$53.69 | \$55.96 | \$69.05 | \$75.15 | \$96.74 | \$105.93 | \$77.41 | \$52.79 | \$50.77 | \$101.90 |
| <u>RTC LBMP</u> | | | | | | | | | | | | |
| Price * | \$127.16 | \$85.48 | \$57.58 | \$57.33 | \$68.27 | \$78.66 | \$92.25 | \$104.69 | \$70.59 | \$48.87 | \$45.91 | \$109.15 |
| Standard Deviation | \$77.62 | \$55.20 | \$38.62 | \$21.09 | \$42.87 | \$49.85 | \$49.28 | \$51.96 | \$28.06 | \$13.16 | \$24.06 | \$190.04 |
| Load Weighted Price ** | \$130.45 | \$88.33 | \$59.03 | \$58.49 | \$72.67 | \$82.33 | \$98.61 | \$111.42 | \$73.81 | \$49.76 | \$47.58 | \$115.16 |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | | |
| Price * | \$130.43 | \$83.85 | \$57.00 | \$54.45 | \$65.07 | \$74.01 | \$90.23 | \$105.61 | \$71.11 | \$49.26 | \$48.62 | \$114.54 |
| Standard Deviation | \$93.35 | \$57.99 | \$44.52 | \$20.46 | \$33.01 | \$41.27 | \$54.20 | \$69.83 | \$30.72 | \$17.89 | \$37.20 | \$216.43 |
| Load Weighted Price ** | \$133.98 | \$86.99 | \$58.64 | \$55.57 | \$68.60 | \$77.40 | \$96.79 | \$113.16 | \$74.57 | \$50.30 | \$50.78 | \$122.49 |
| Average Daily Energy Sendout/Month GWh | 451 | 429 | 390 | 359 | 372 | 422 | 509 | 514 | 411 | 359 | 382 | 421 |

* Average zonal load weighted prices.

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

NYISO Monthly Average Internal LBMPs 2022 - 2023

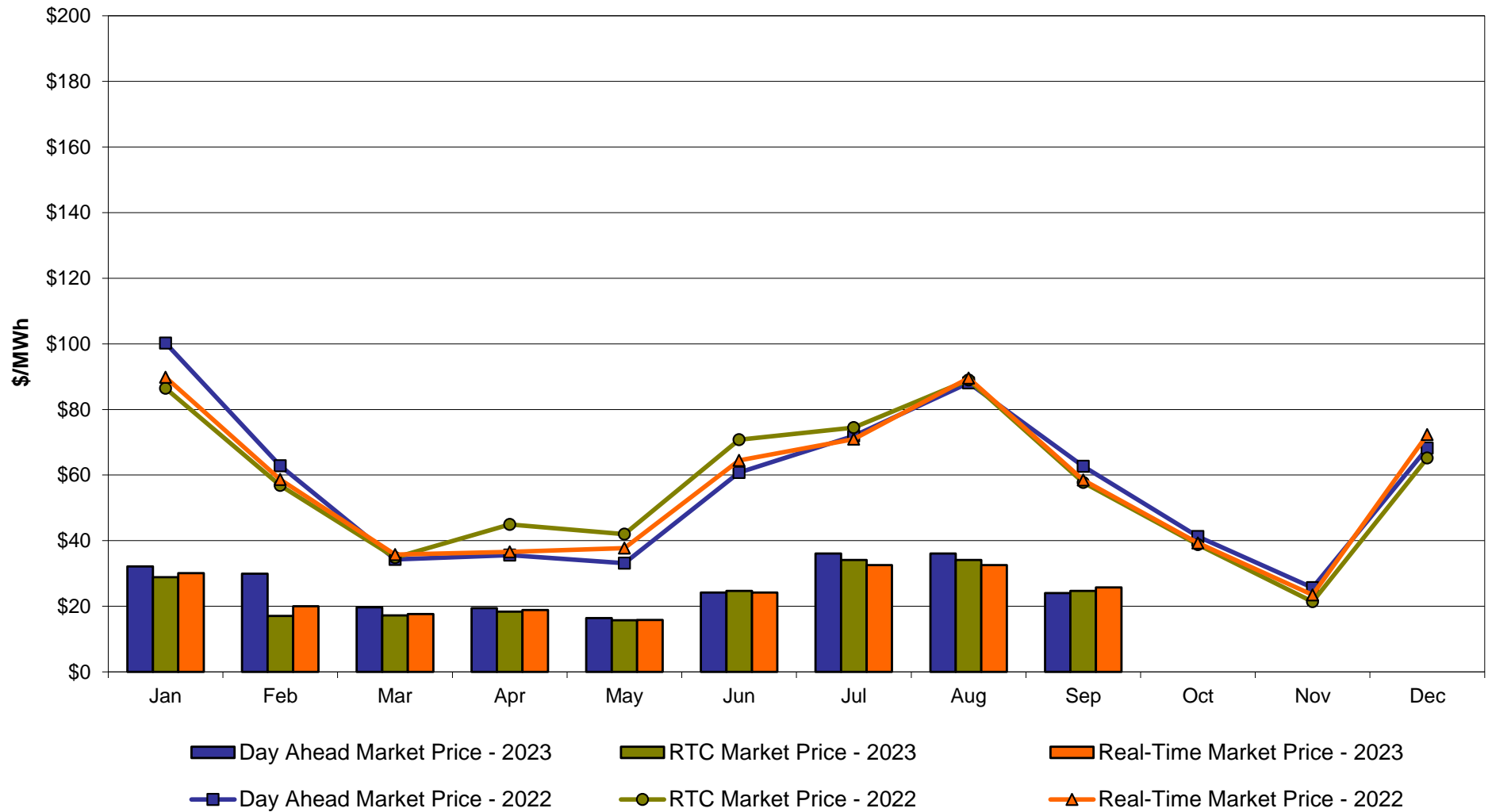


August 2023 Zonal LBMP Statistics for NYISO (\$/MWh)

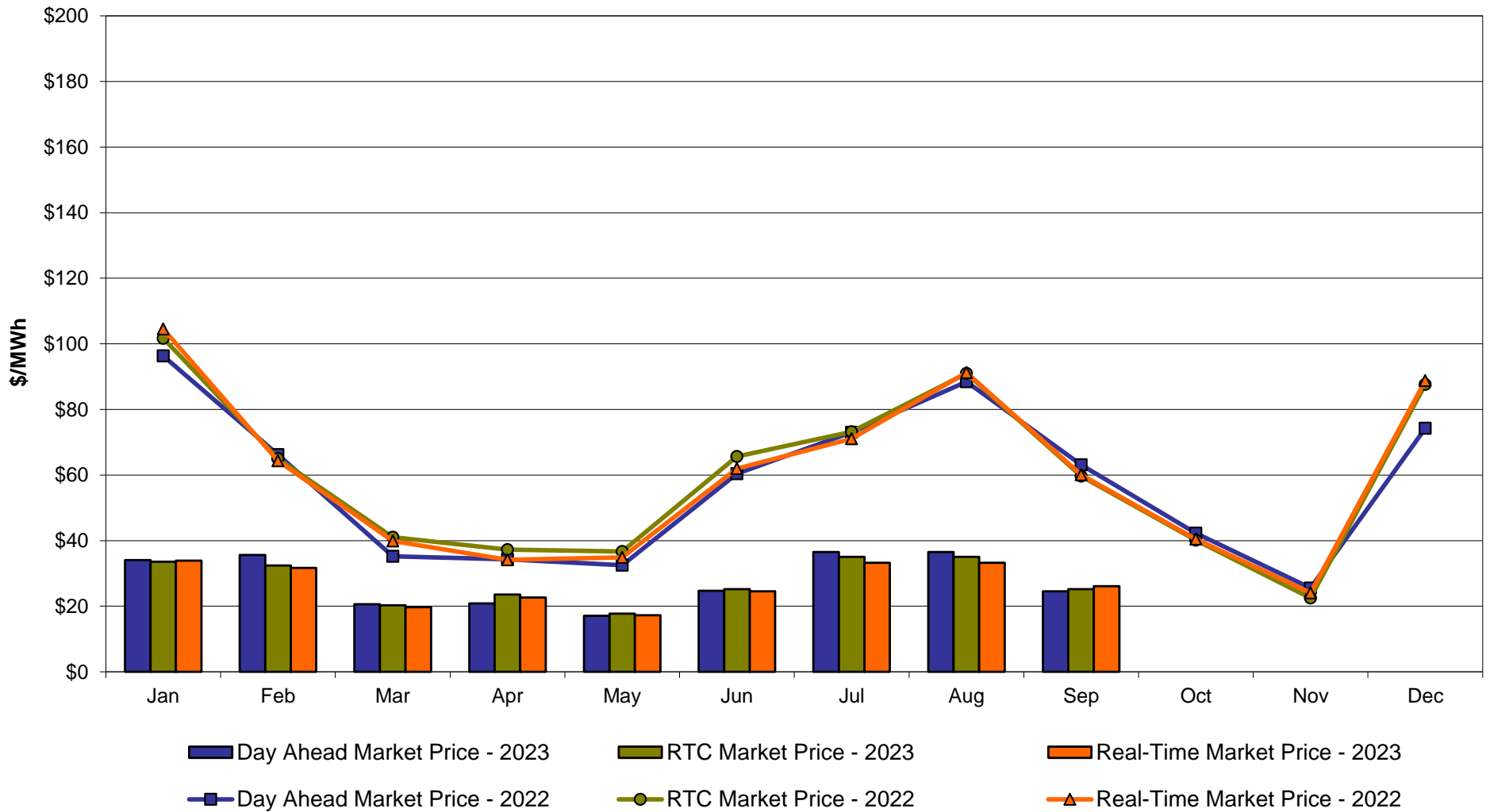
| | <u>WEST</u> <u>Zone A</u> | <u>GENESEE</u> <u>Zone B</u> | <u>NORTH</u> <u>Zone D</u> | <u>CENTRAL</u> <u>Zone C</u> | <u>MOHAWK</u> <u>VALLEY</u> <u>Zone E</u> | <u>CAPITAL</u> <u>Zone F</u> | <u>HUDSON</u> <u>VALLEY</u> <u>Zone G</u> | <u>MILLWOOD</u> <u>Zone H</u> | <u>DUNWOODIE</u> <u>Zone I</u> | <u>NEW YORK</u> <u>CITY</u> <u>Zone J</u> | <u>LONG</u> <u>ISLAND</u> <u>Zone K</u> |
|------------------------------|---|--|--|---|--|---|---|---|--|--|--|
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 24.05 | 24.15 | 22.41 | 24.51 | 25.01 | 27.42 | 27.29 | 27.62 | 27.73 | 27.98 | 36.99 |
| Standard Deviation | 5.92 | 6.00 | 7.38 | 6.14 | 6.29 | 7.50 | 7.29 | 7.49 | 7.50 | 7.65 | 18.68 |
| <u>RTC LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 24.68 | 24.74 | 16.20 | 25.20 | 25.60 | 29.05 | 28.62 | 28.98 | 29.08 | 29.63 | 45.26 |
| Standard Deviation | 9.53 | 9.81 | 55.44 | 9.76 | 10.23 | 7.55 | 7.38 | 7.40 | 7.44 | 8.28 | 48.22 |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 25.73 | 25.71 | 16.56 | 26.08 | 26.51 | 29.79 | 29.39 | 30.01 | 30.16 | 30.81 | 42.67 |
| Standard Deviation | 18.76 | 18.87 | 60.29 | 19.00 | 19.49 | 18.67 | 19.10 | 19.18 | 19.26 | 20.35 | 41.23 |
| | <u>ONTARIO</u> <u>IESO</u> <u>Zone O</u> | <u>HYDRO</u> <u>QUEBEC</u> <u>(Wheel)</u> <u>Zone M</u> | <u>HYDRO</u> <u>QUEBEC</u> <u>(Import/Export)</u> <u>Zone M</u> | <u>PJM</u> <u>Zone P</u> | <u>NEW</u> <u>ENGLAND</u> <u>Zone N</u> | <u>CROSS</u> <u>SOUND</u> <u>CABLE</u> <u>Controllable</u> <u>Line</u> | <u>NORTHPORT-</u> <u>NORWALK</u> <u>Controllable</u> <u>Line</u> | <u>NEPTUNE</u> <u>Controllable</u> <u>Line</u> | <u>LINDEN VFT</u> <u>Controllable</u> <u>Line</u> | <u>HUDSON</u> <u>Controllable</u> <u>Line</u> | <u>Dennison</u> <u>Controllable</u> <u>Line</u> |
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 23.57 | 22.51 | 22.51 | 25.69 | 26.48 | 44.59 | 29.72 | 31.93 | 27.41 | 27.68 | 22.18 |
| Standard Deviation | 5.70 | 7.19 | 7.19 | 6.45 | 6.05 | 37.40 | 6.84 | 9.37 | 7.00 | 7.47 | 7.44 |
| <u>RTC LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 24.08 | 16.83 | 16.83 | 26.54 | 28.40 | 59.48 | 35.73 | 35.89 | 28.59 | 29.01 | 15.53 |
| Standard Deviation | 9.31 | 50.52 | 50.52 | 7.91 | 7.17 | 87.31 | 34.18 | 34.50 | 7.17 | 7.42 | 58.24 |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 25.95 | 17.27 | 17.27 | 27.16 | 28.98 | 55.90 | 31.91 | 33.95 | 29.63 | 30.08 | 15.91 |
| Standard Deviation | 19.22 | 55.36 | 55.36 | 18.89 | 19.63 | 76.32 | 25.95 | 28.40 | 19.04 | 19.21 | 63.21 |

* Straight LBMP averages

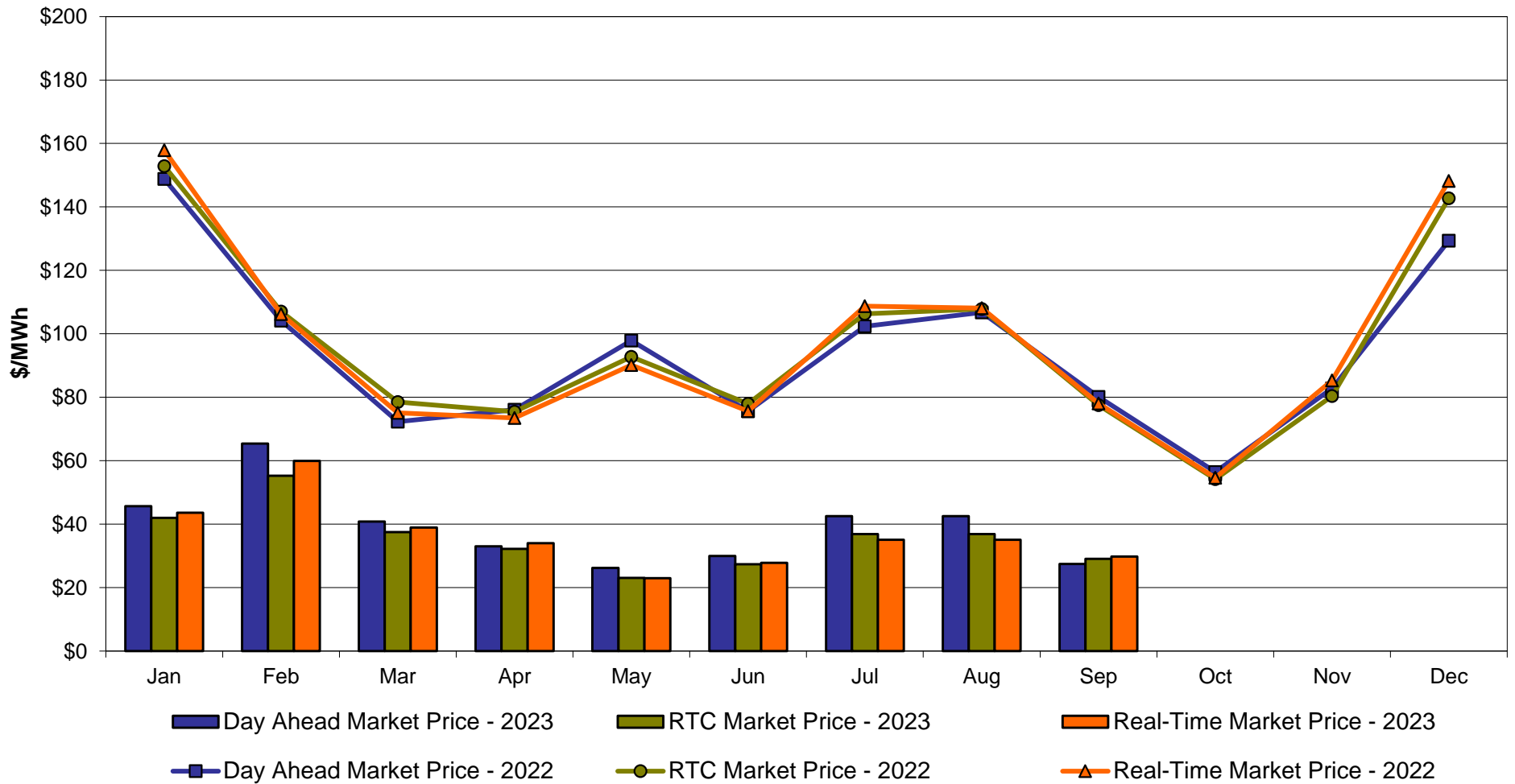
West Zone A **Monthly Average LBMP Prices 2022 - 2023**



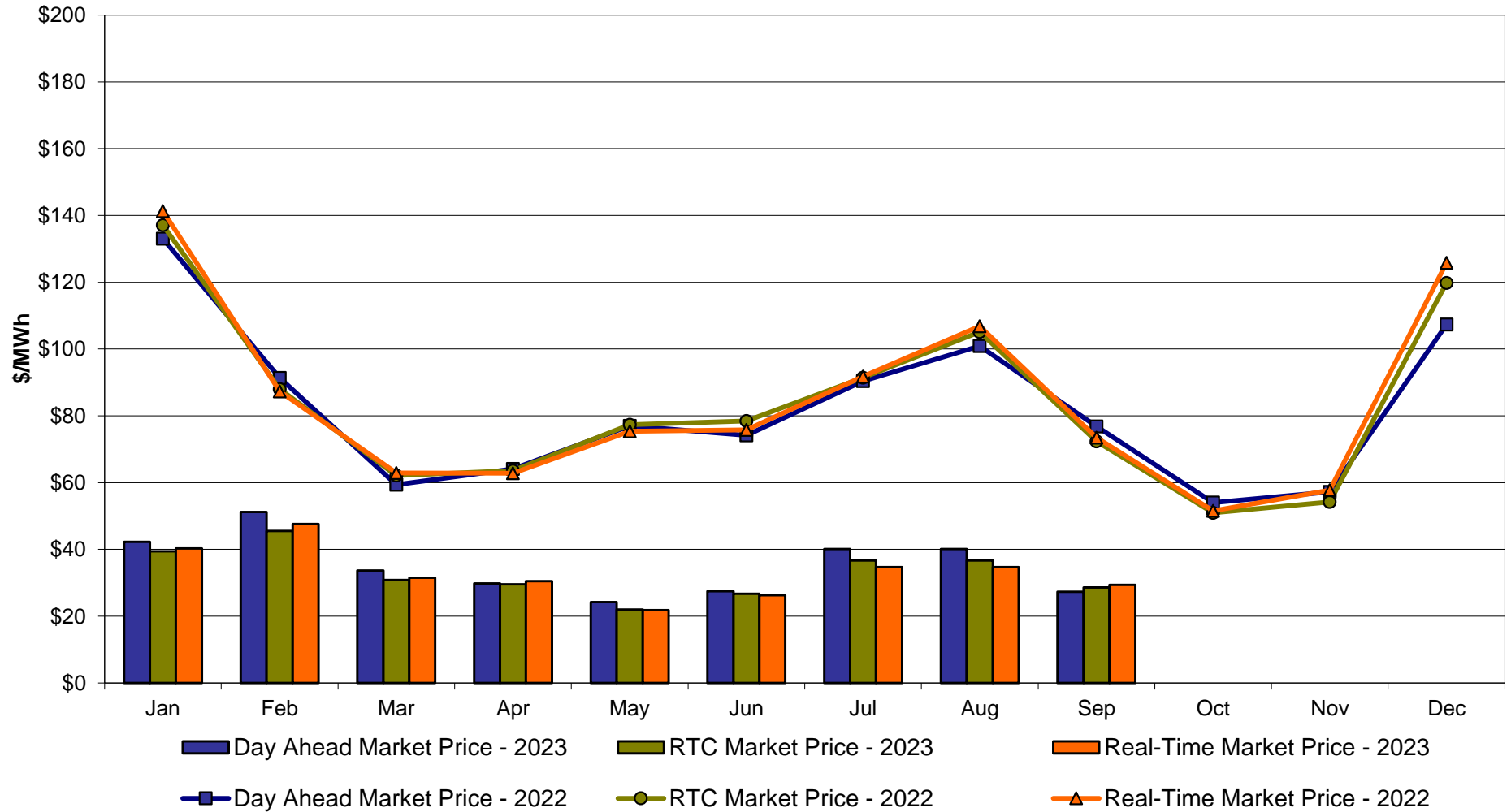
Central Zone C Monthly Average LBMP Prices 2022 - 2023



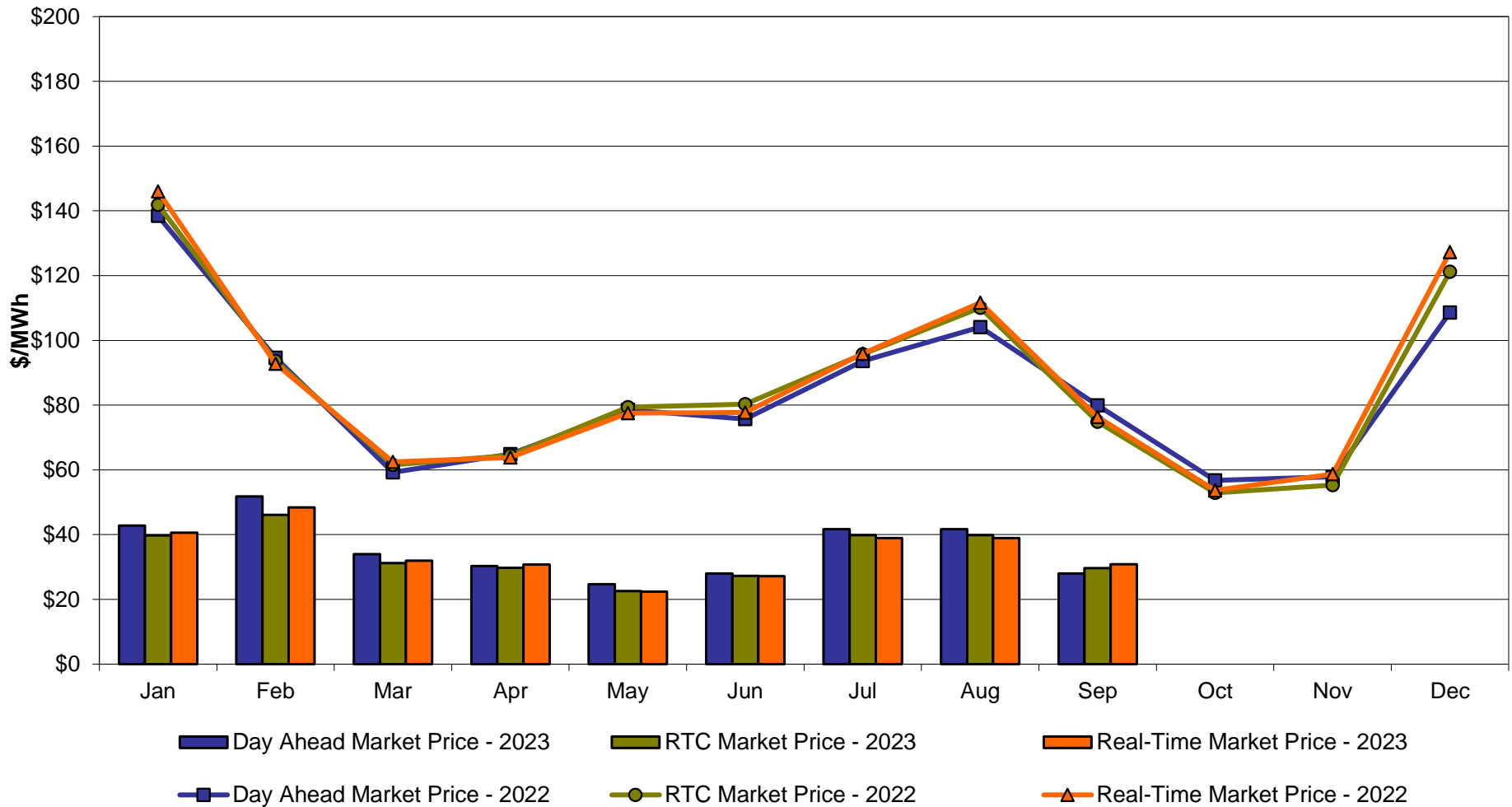
Capital Zone F **Monthly Average LBMP Prices 2022 - 2023**



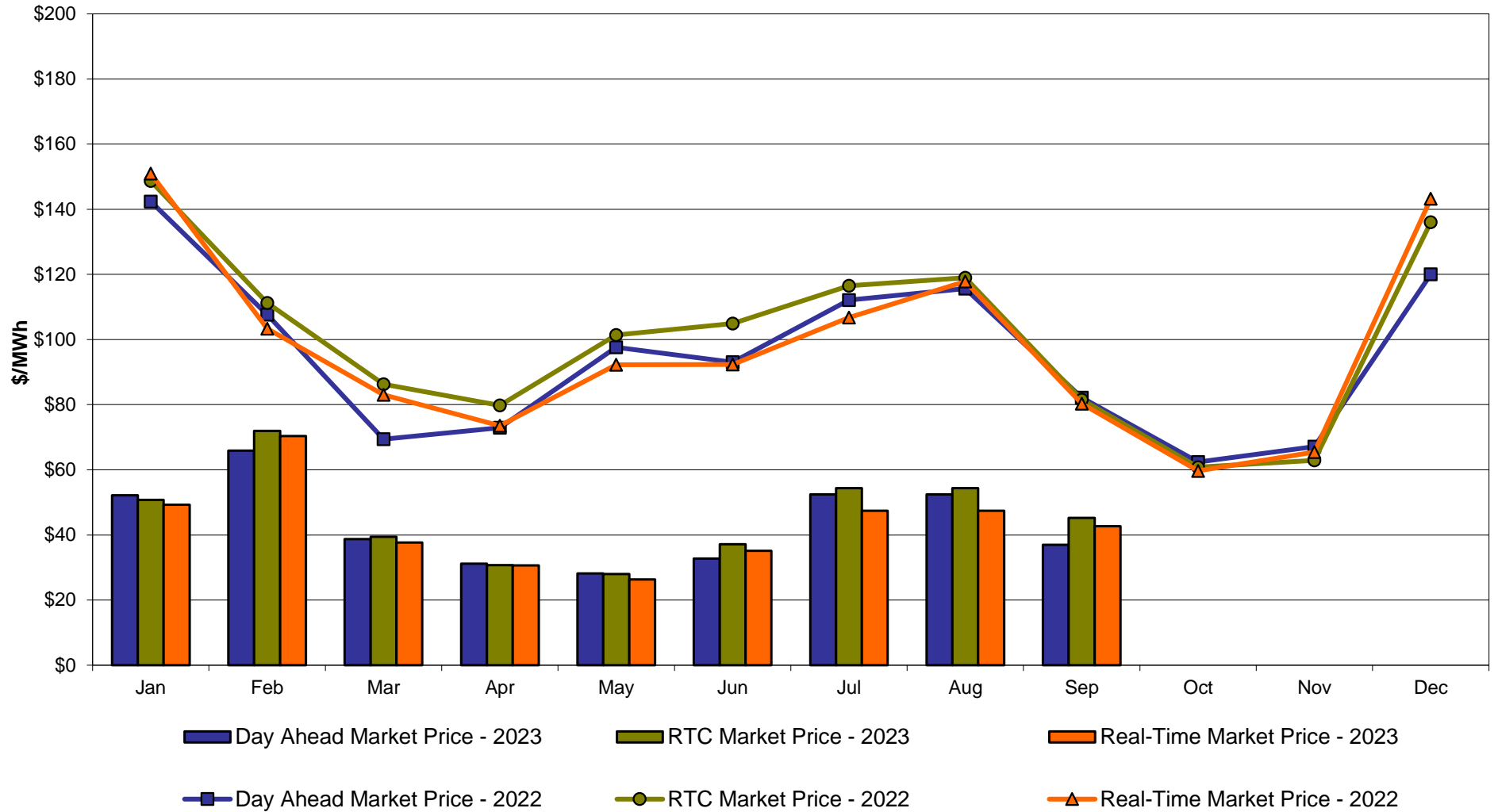
Hudson Valley Zone G Monthly Average LBMP Prices 2022 - 2023



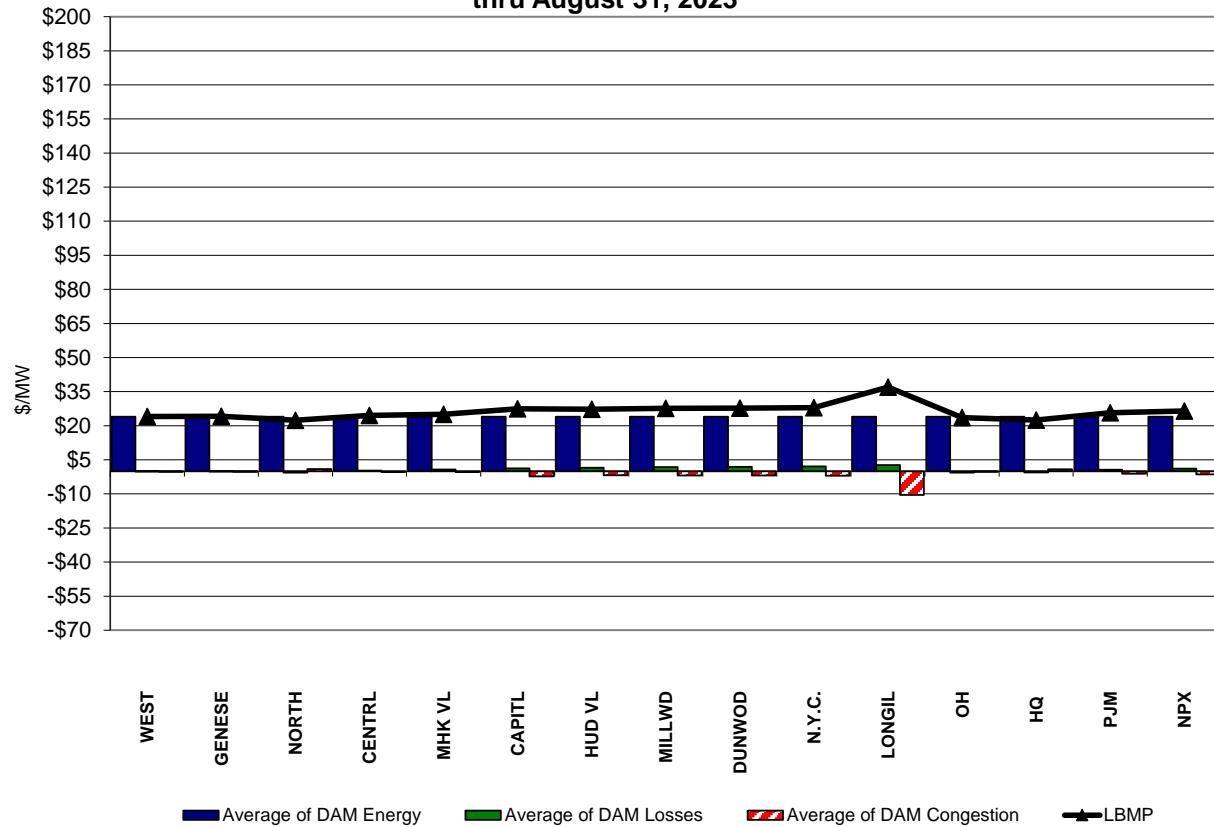
NYC Zone J Monthly Average LBMP Prices 2022 - 2023



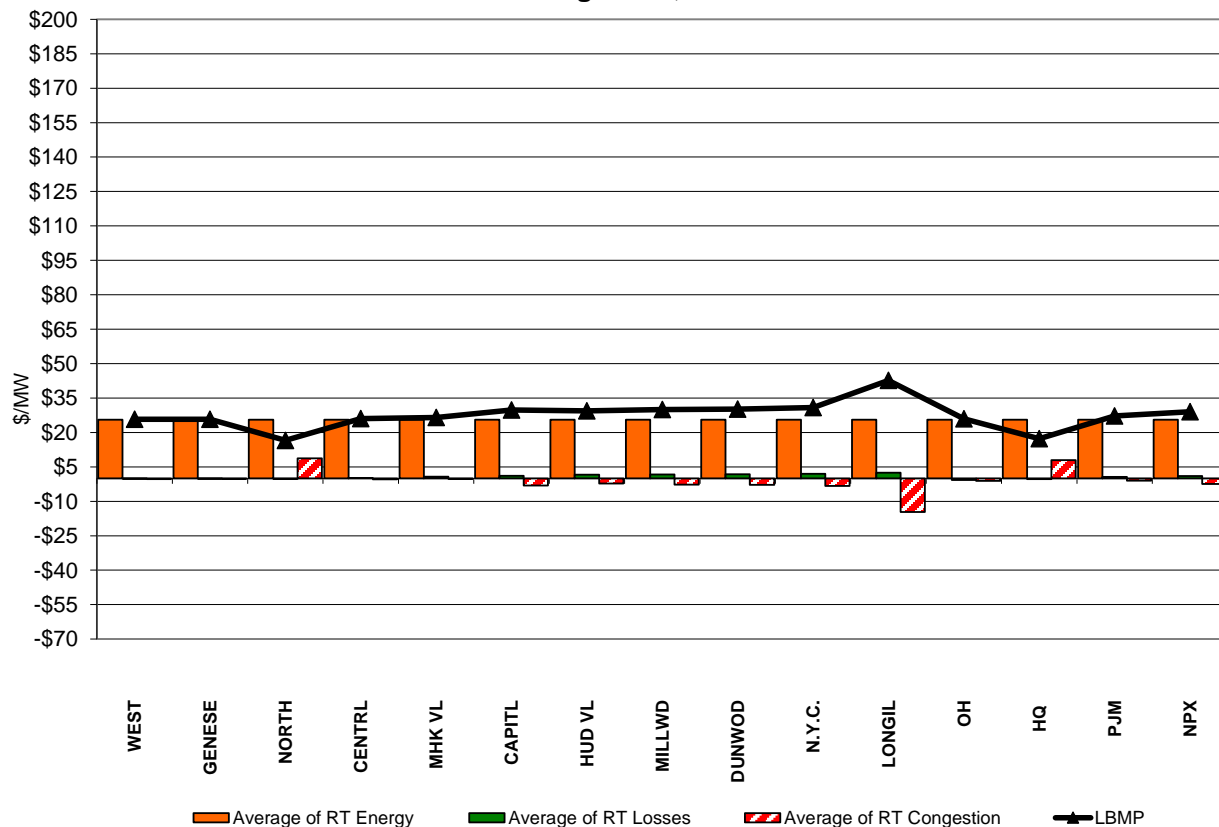
Long Island Zone K Monthly Average LBMP Prices 2022 - 2023



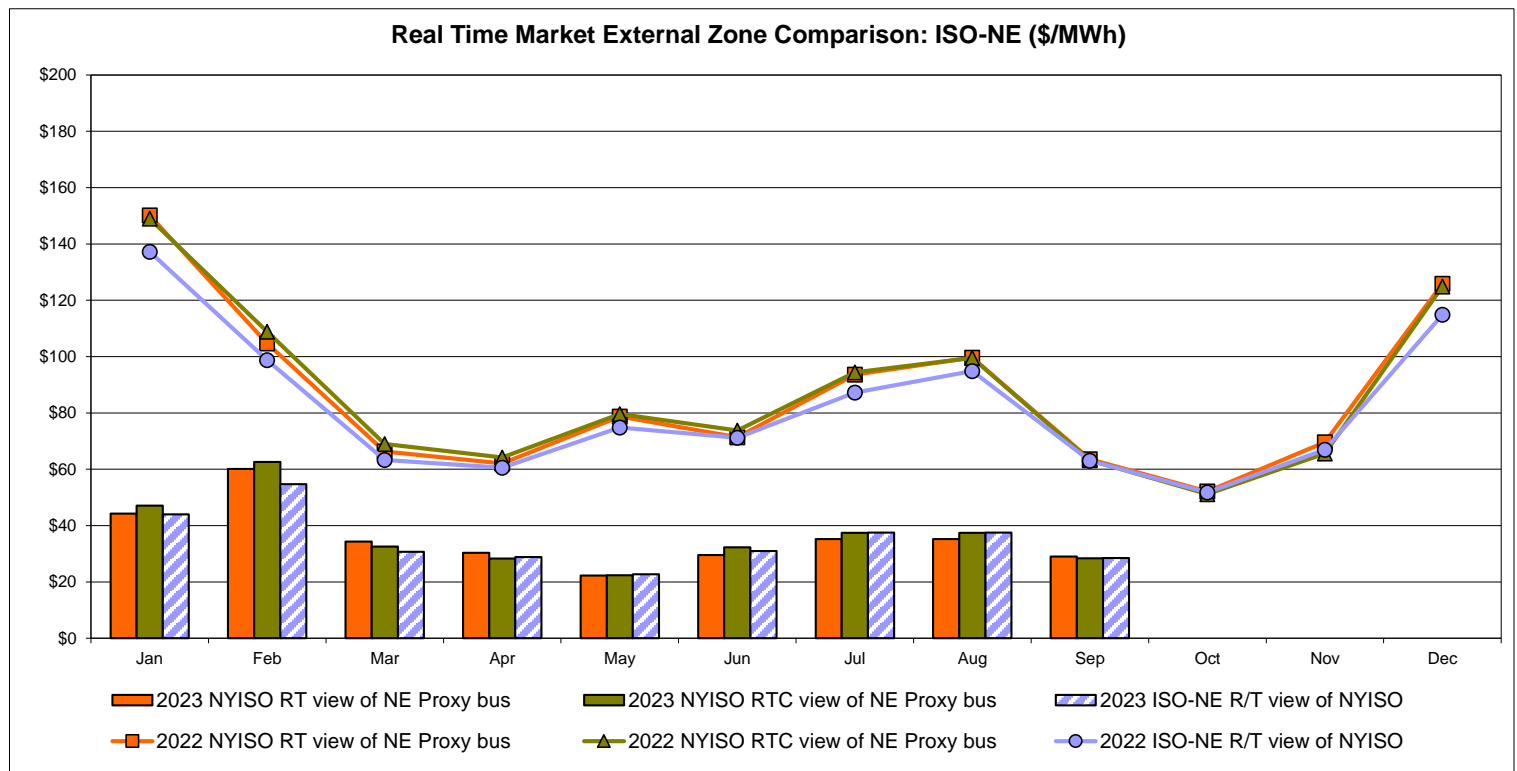
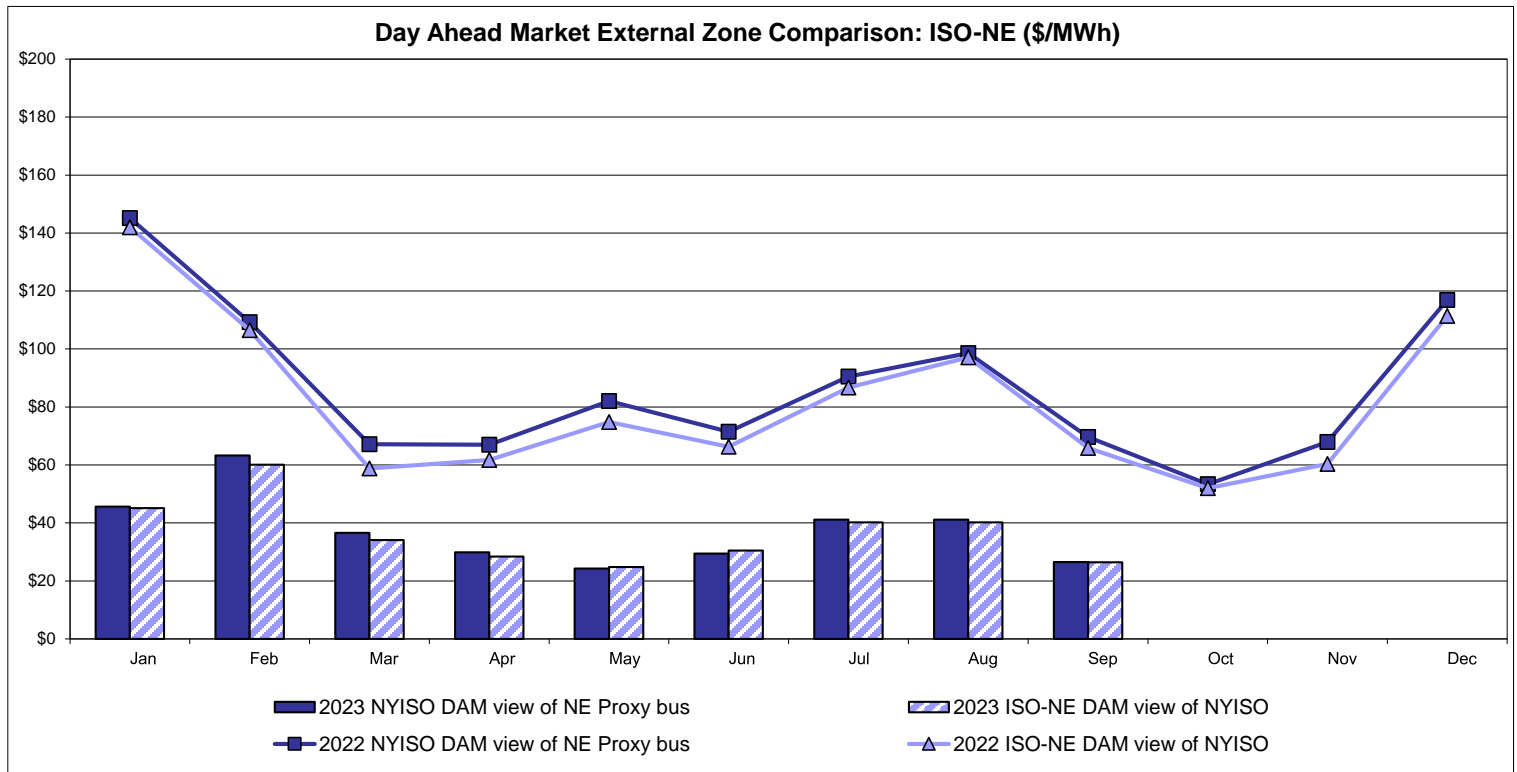
**DAM Zonal Unweighted Monthly Average LBMP Components
thru August 31, 2023**



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

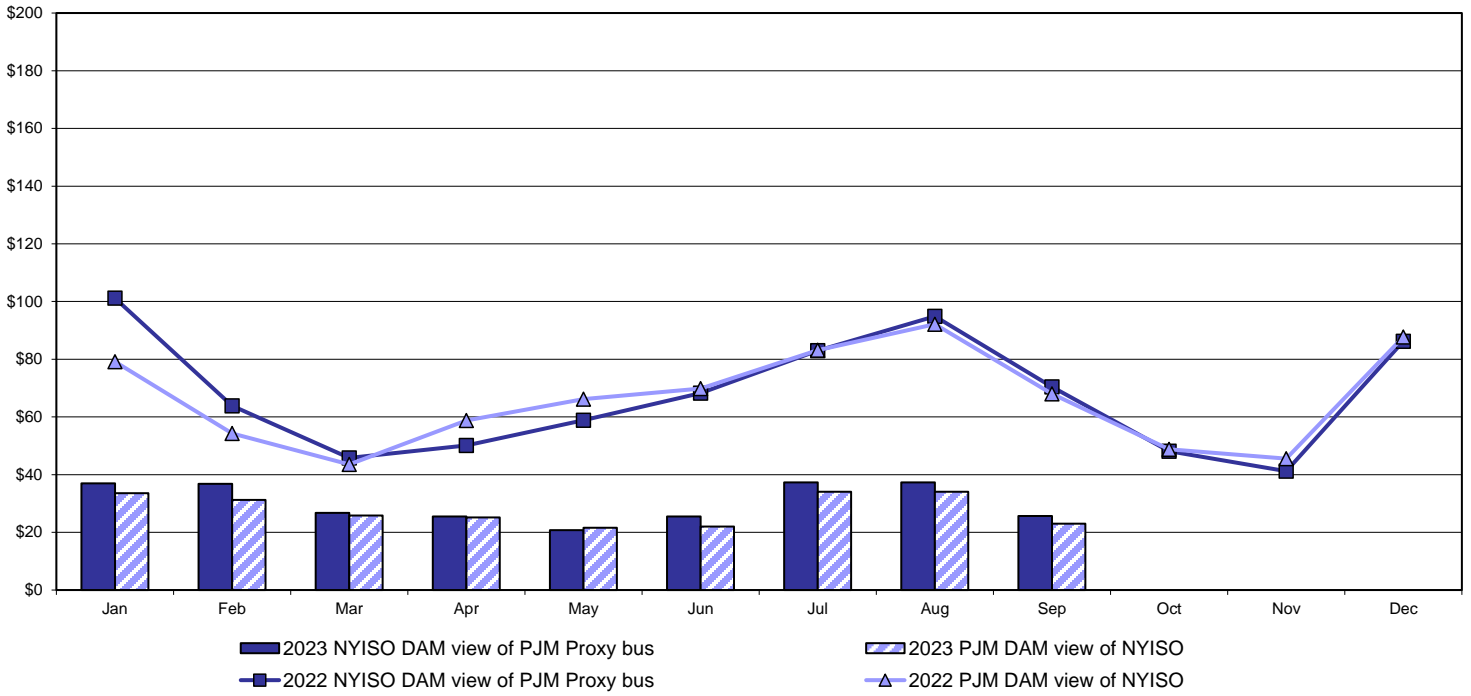


External Comparison ISO-New England

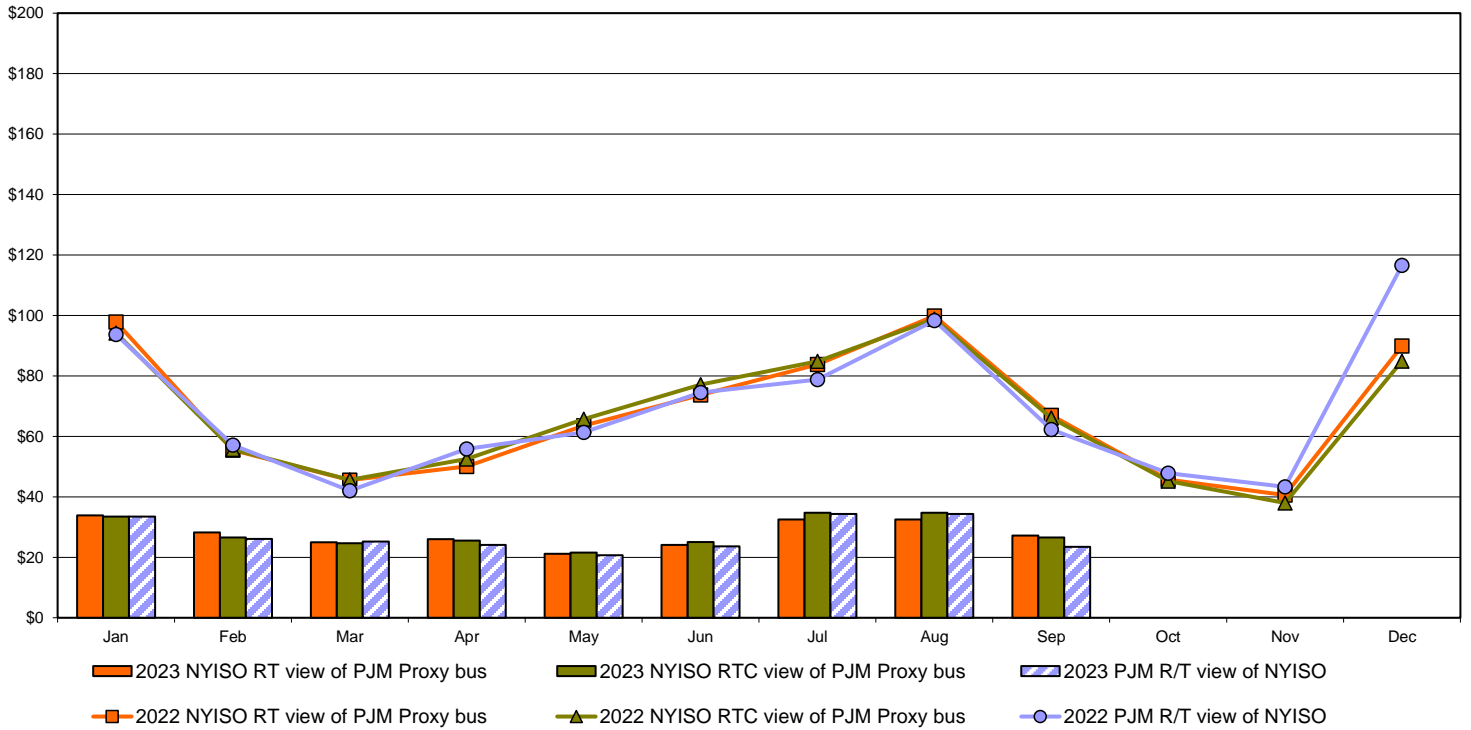


External Comparison PJM

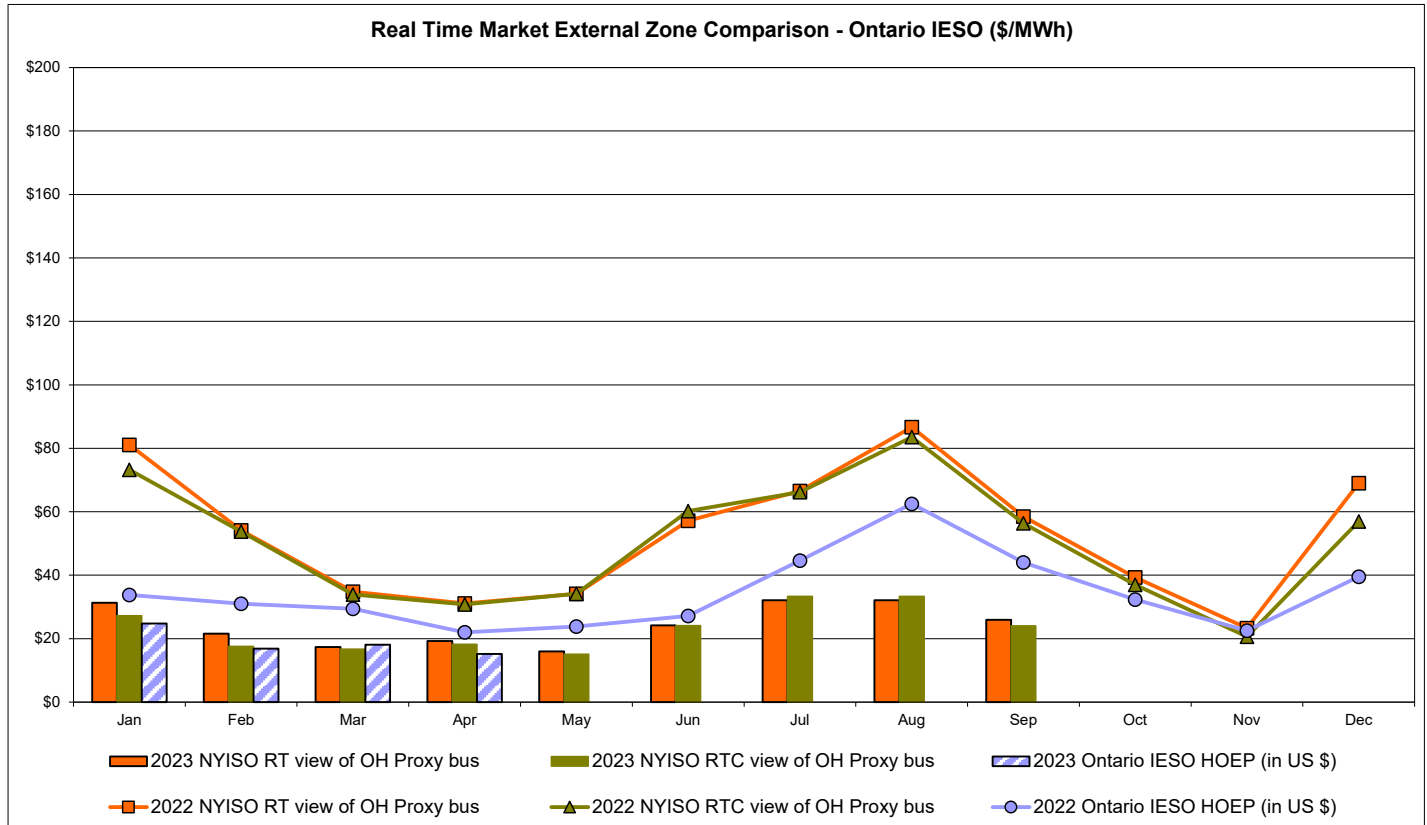
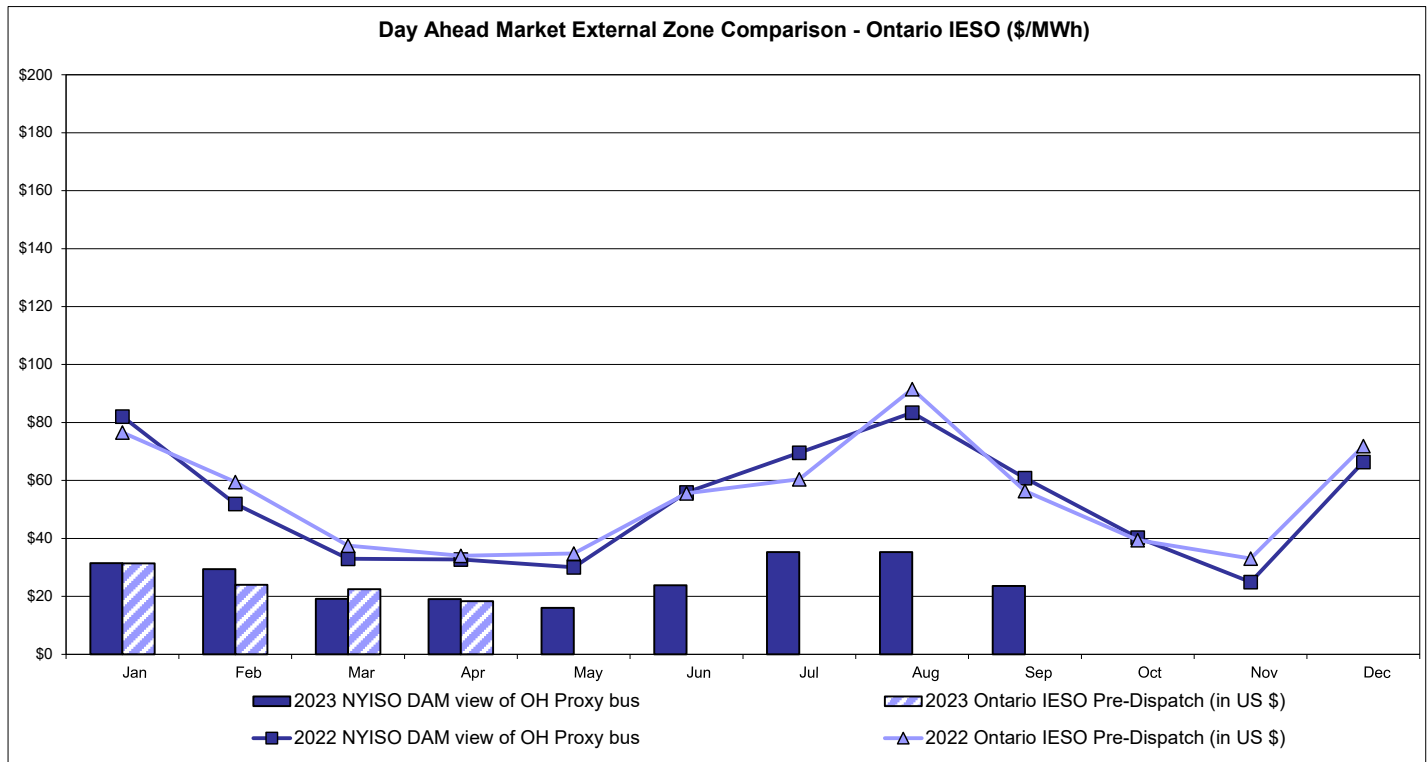
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

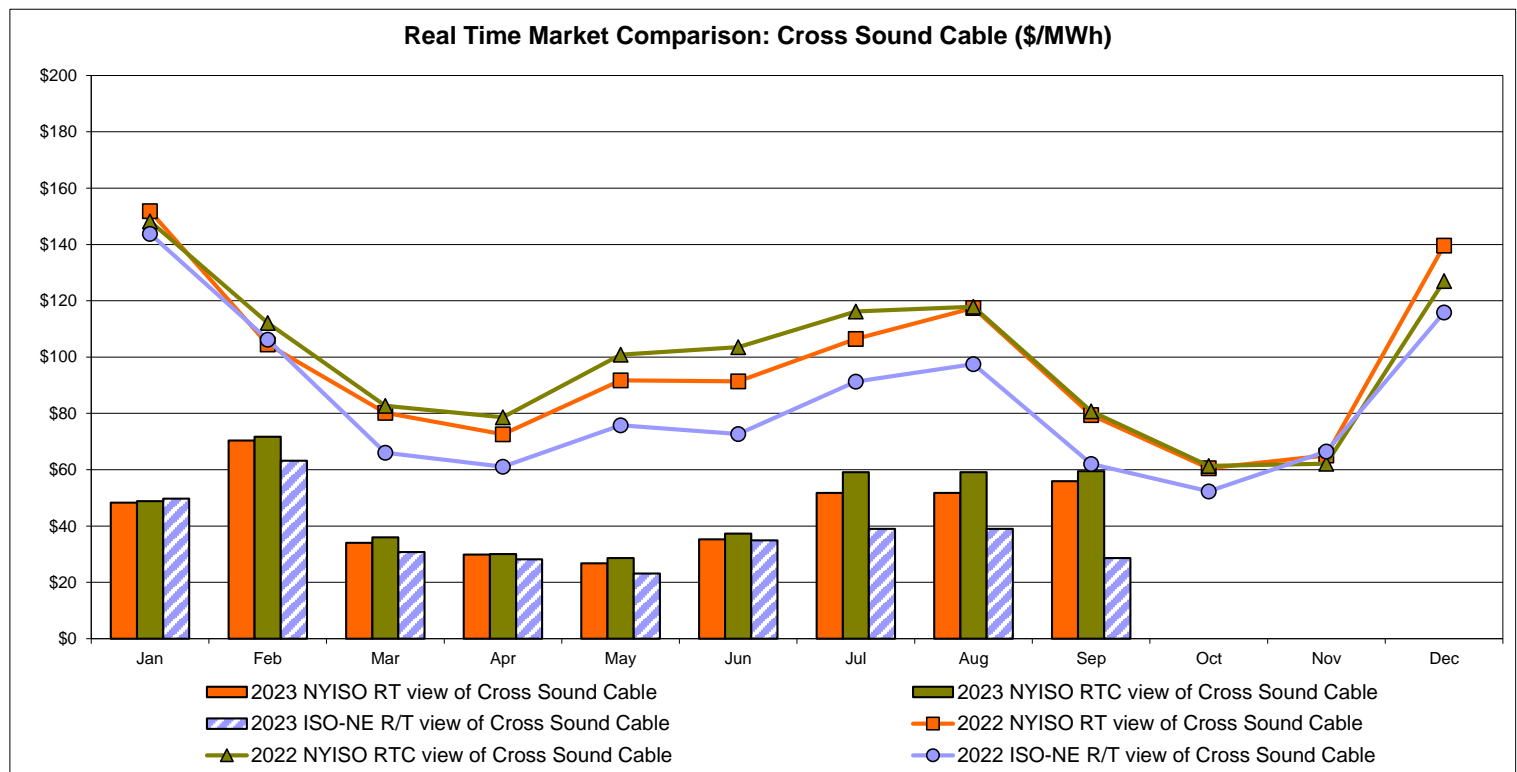
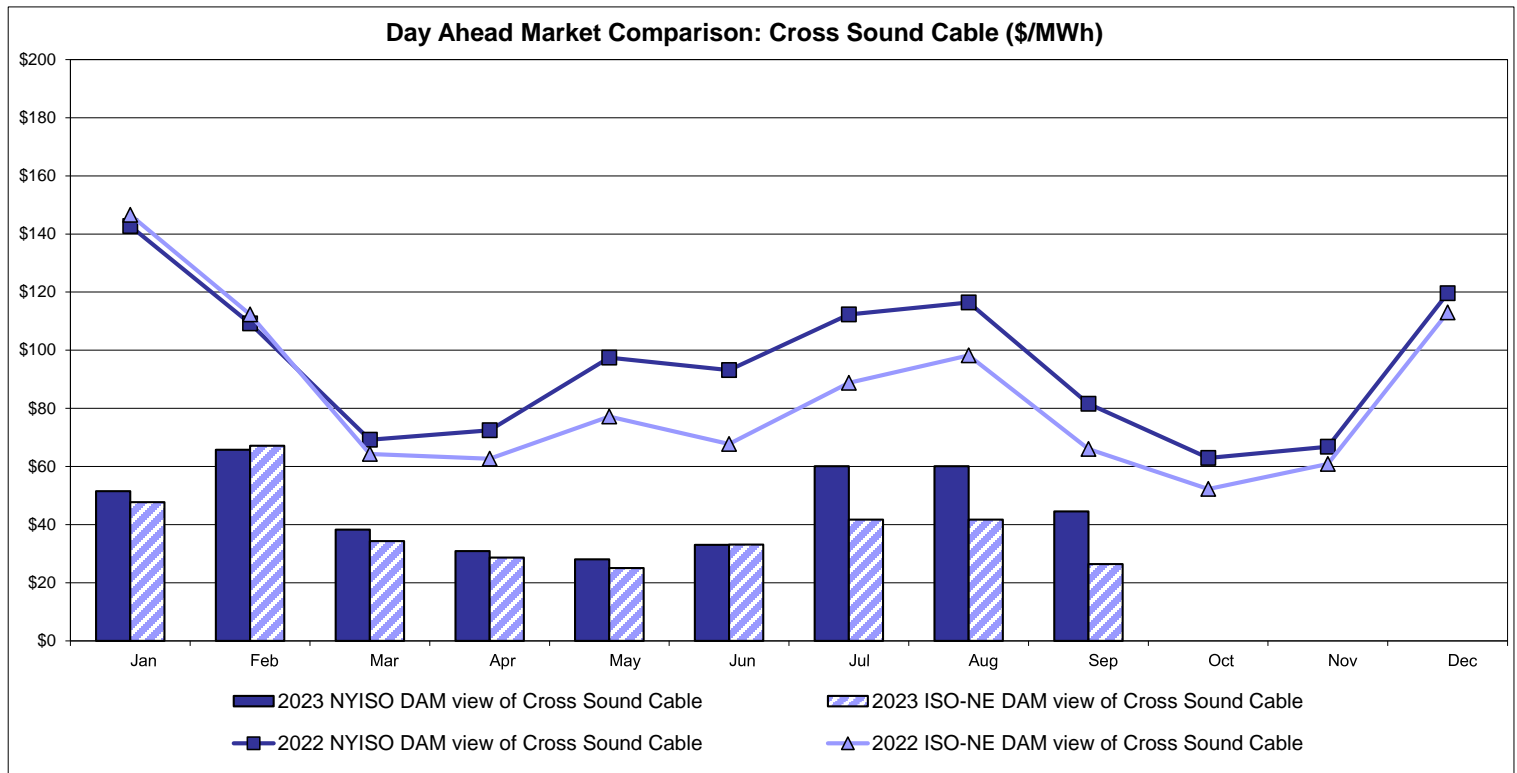


External Comparison Ontario IESO



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

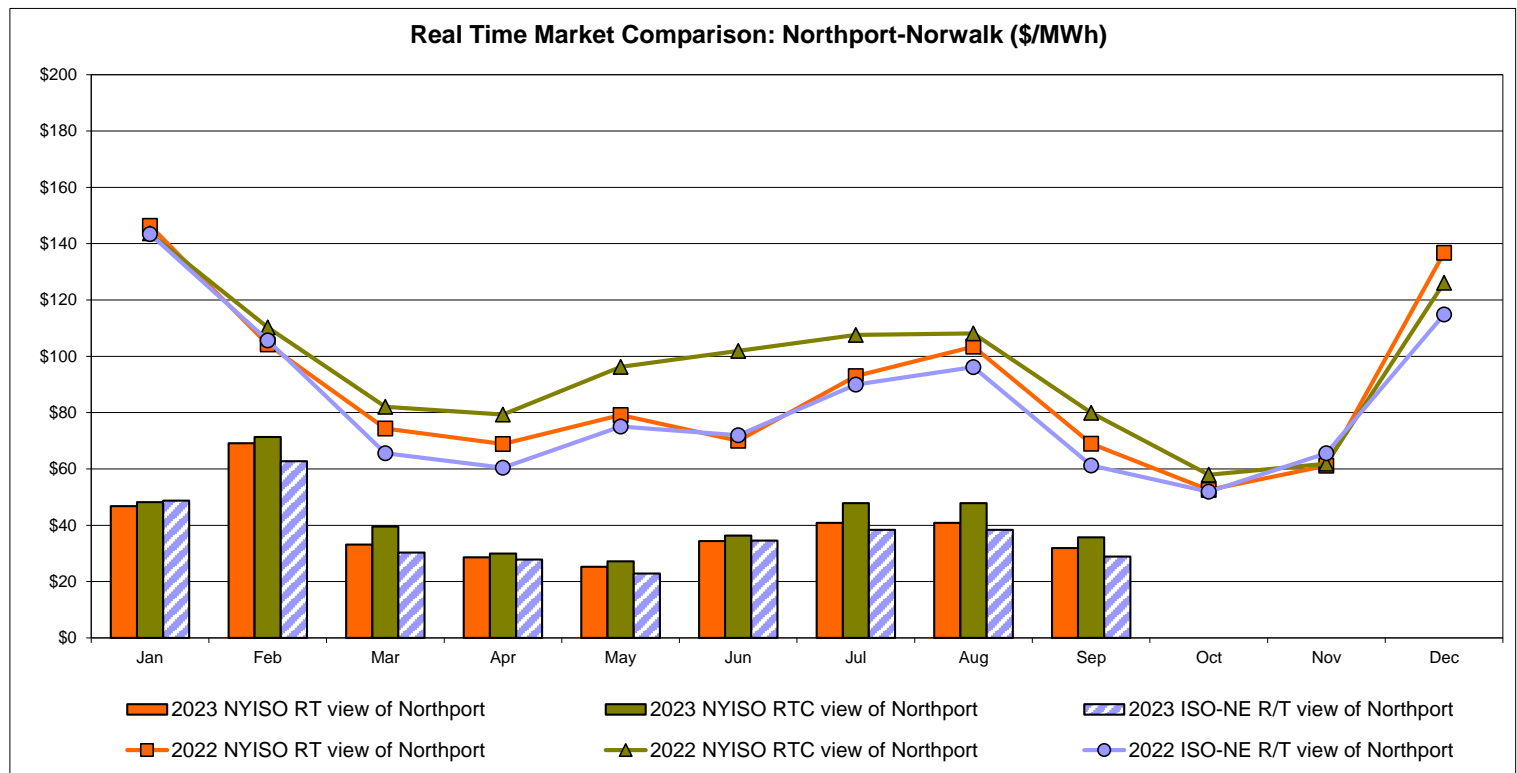
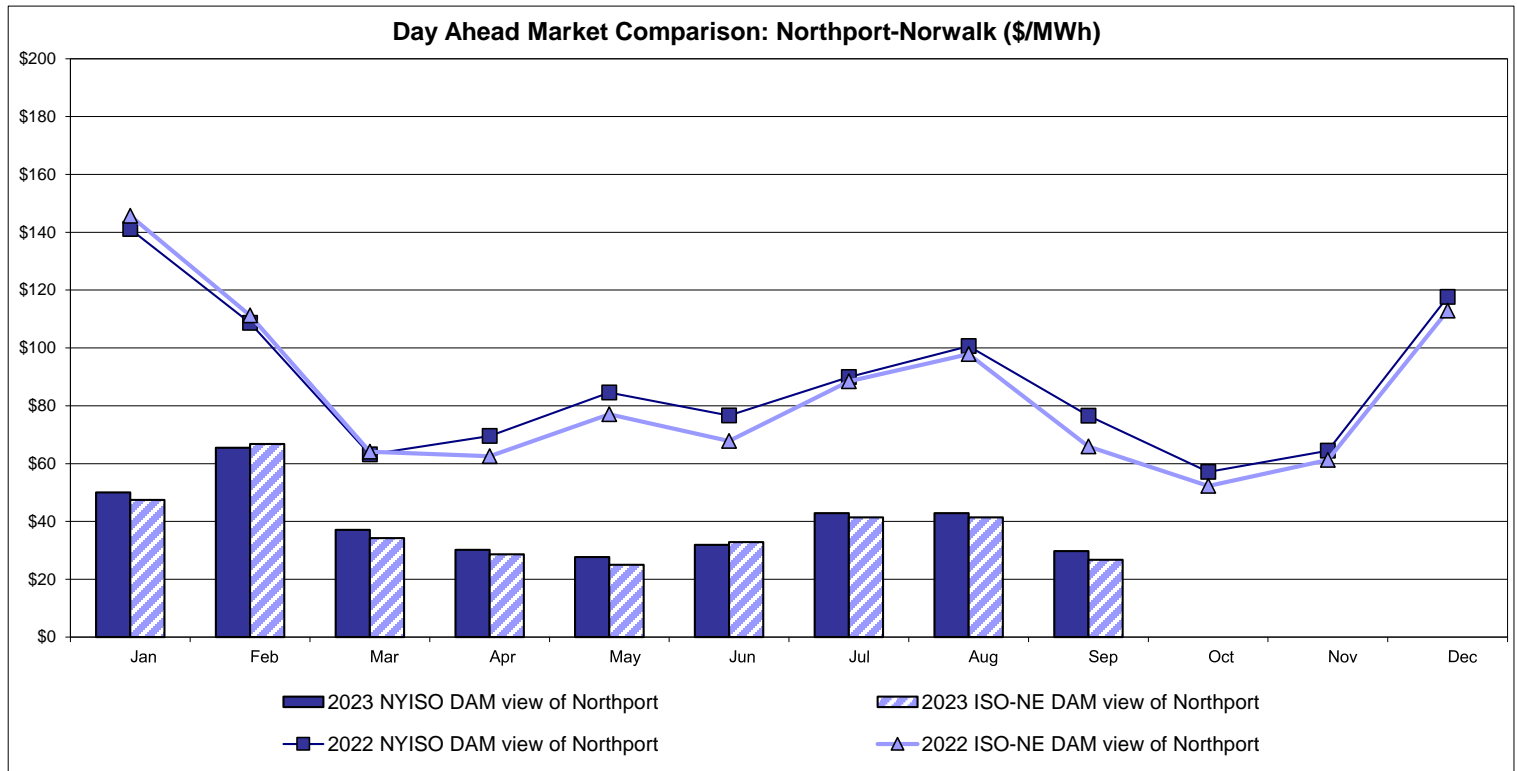
External Controllable Line: Cross Sound Cable (New England)



Note:

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

External Controllable Line: Northport - Norwalk (New England)

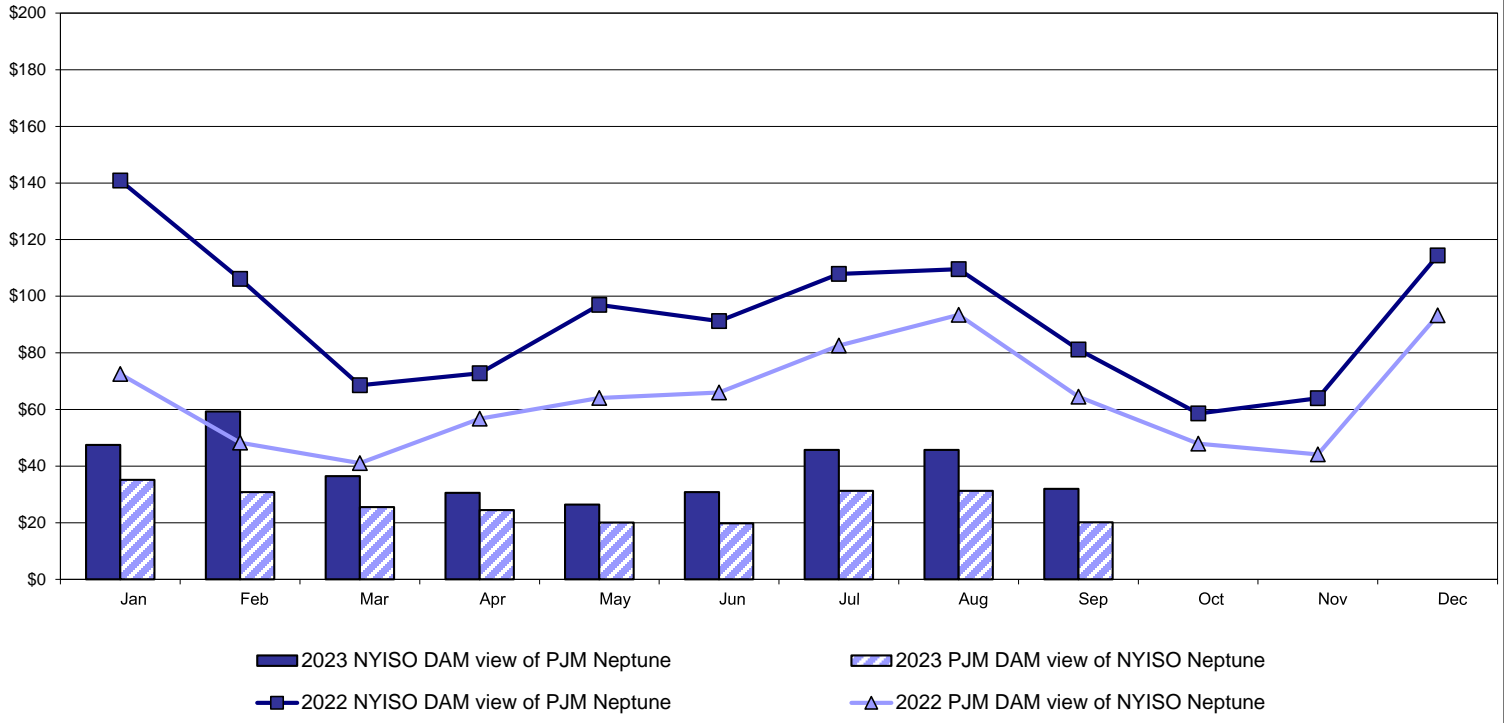


Note:

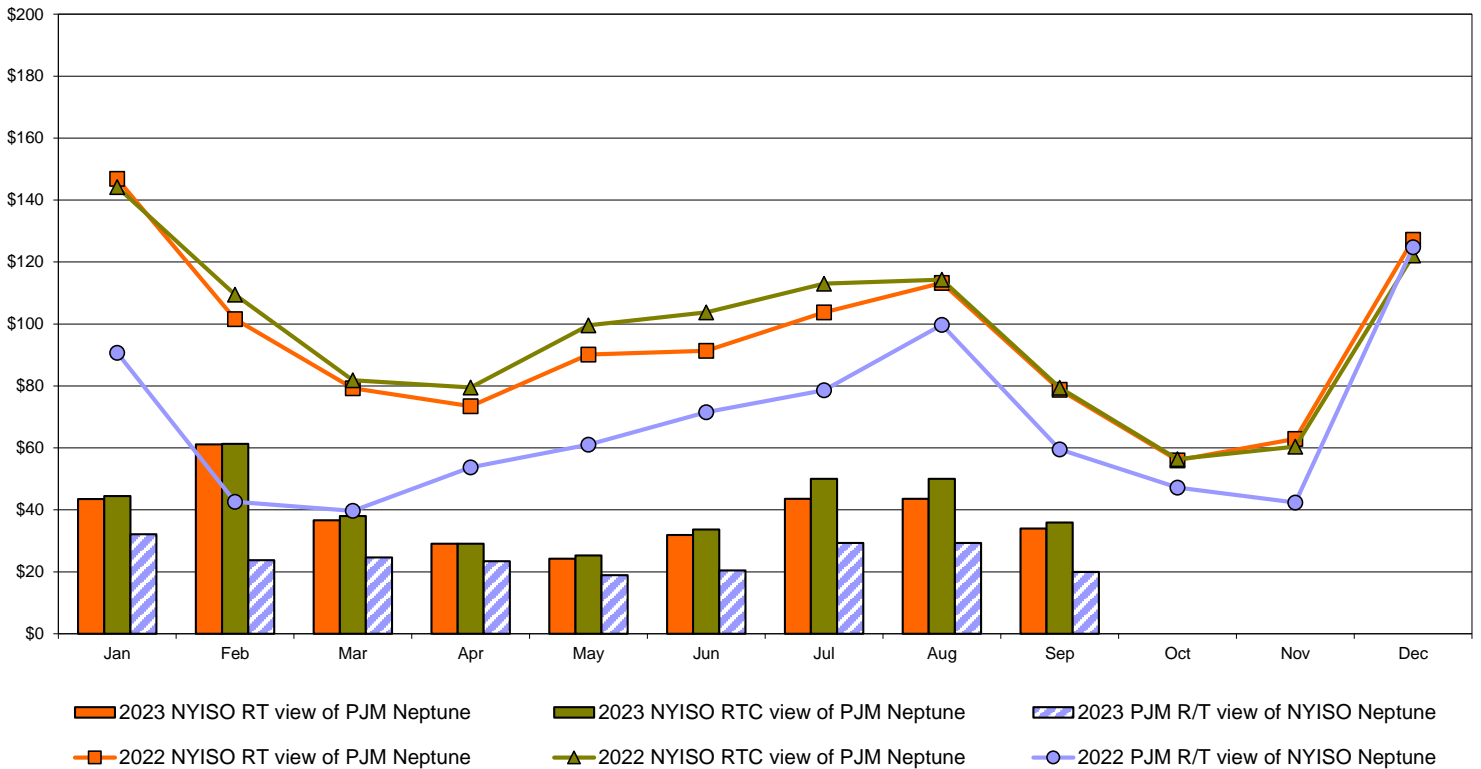
ISO-NE Forecast is an advisory posting @ 18:00 day before.
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
 The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

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

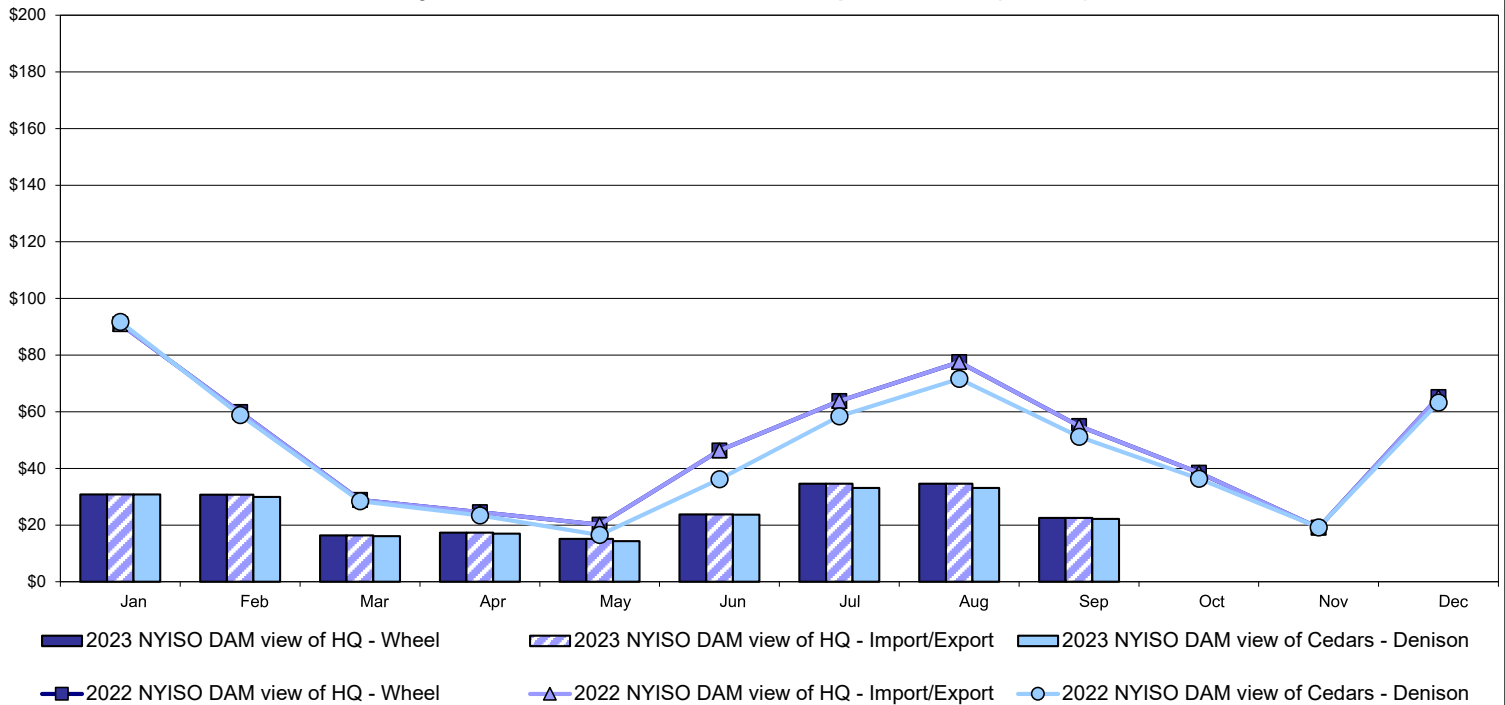


Real Time Market Comparison: Neptune (\$/MWh)

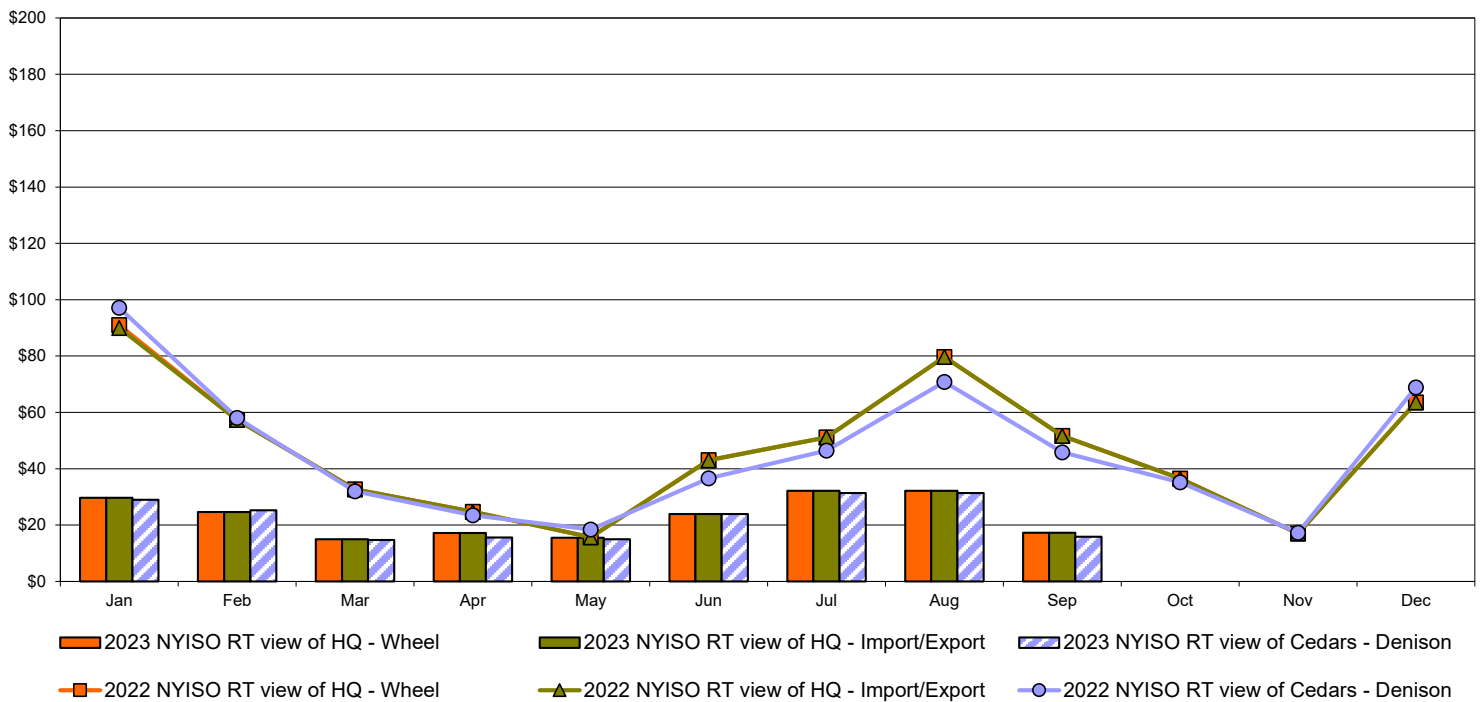


External Comparison Hydro-Quebec

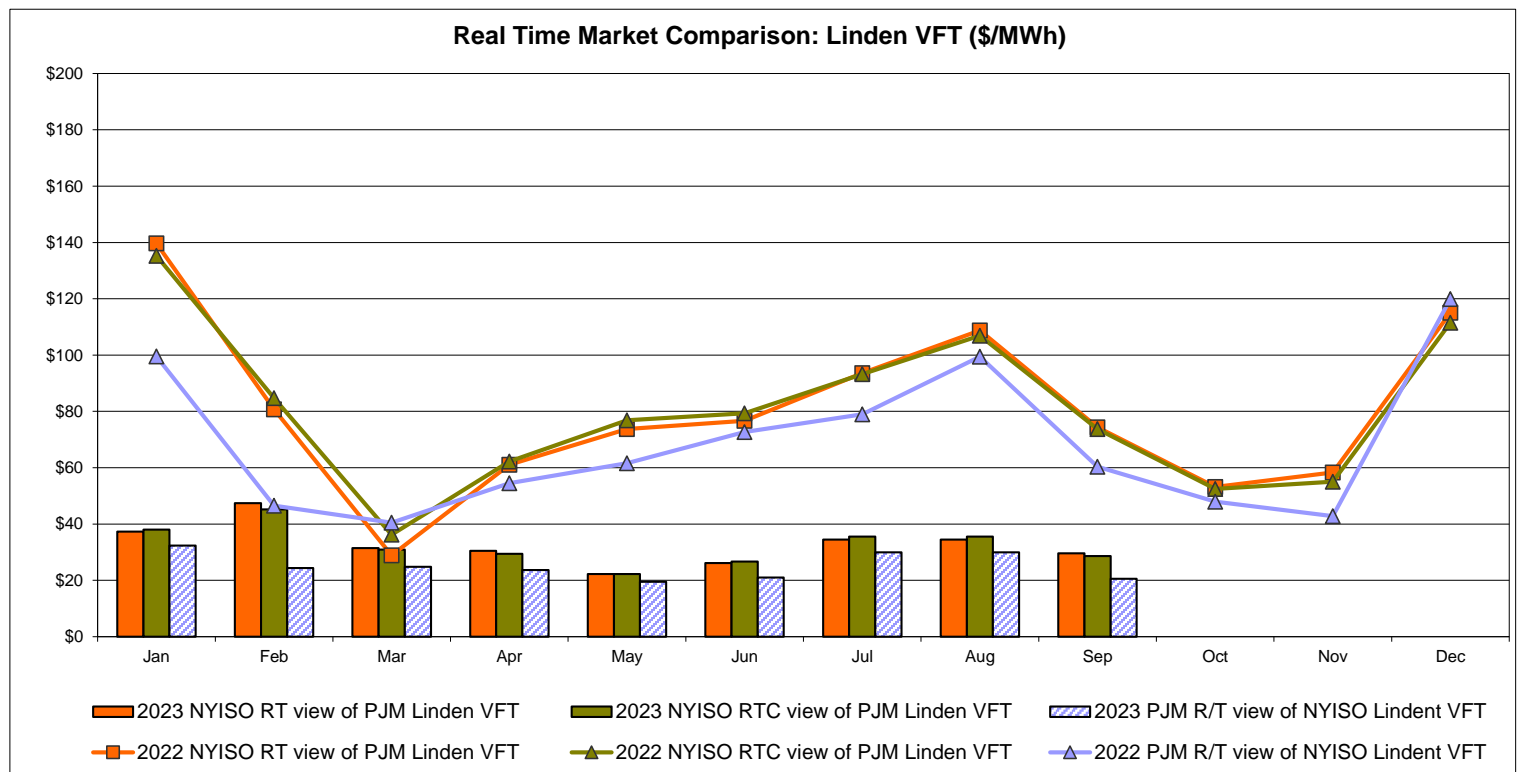
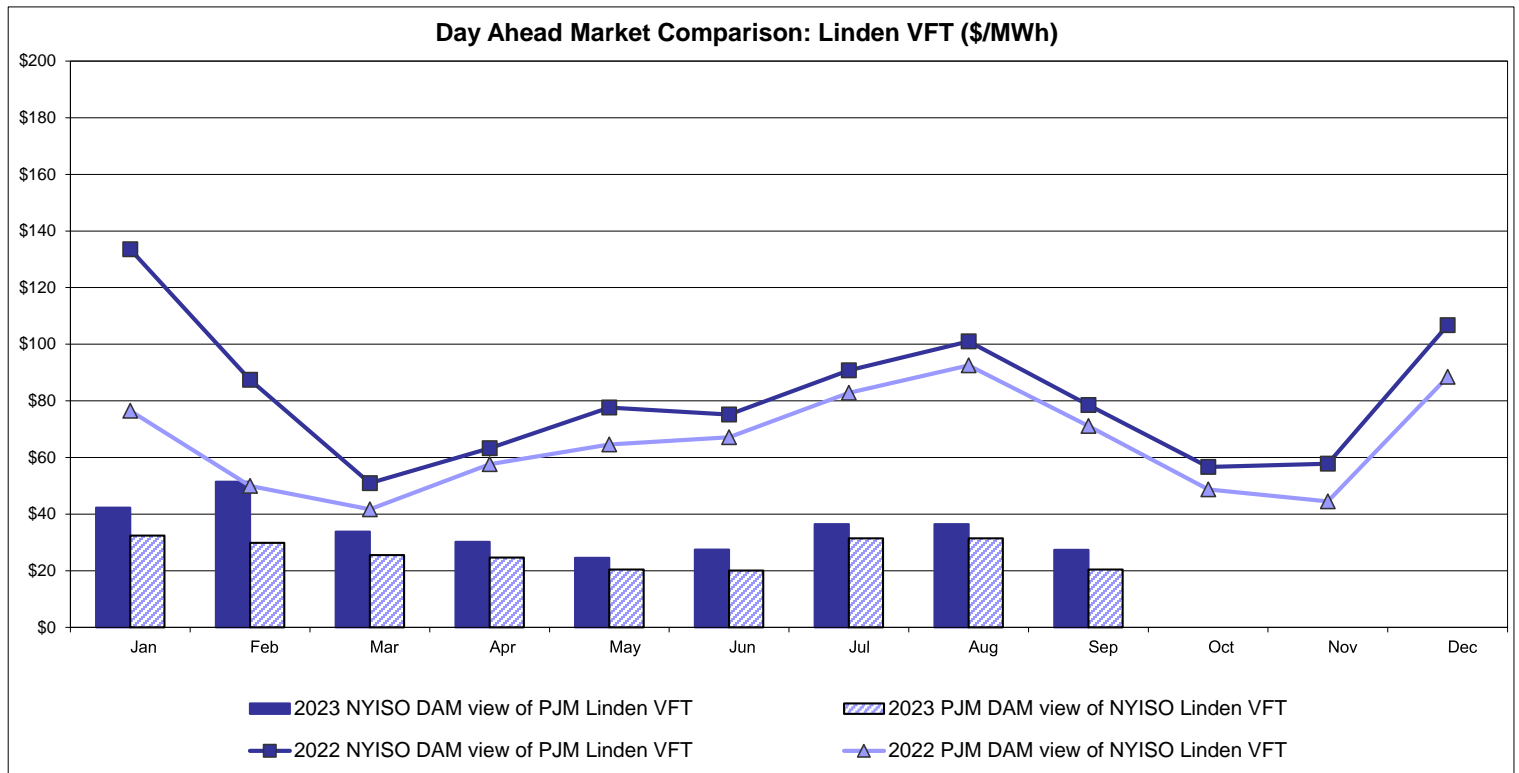
Day Ahead Market External Zone Comparison - HQ (\$/MWh)



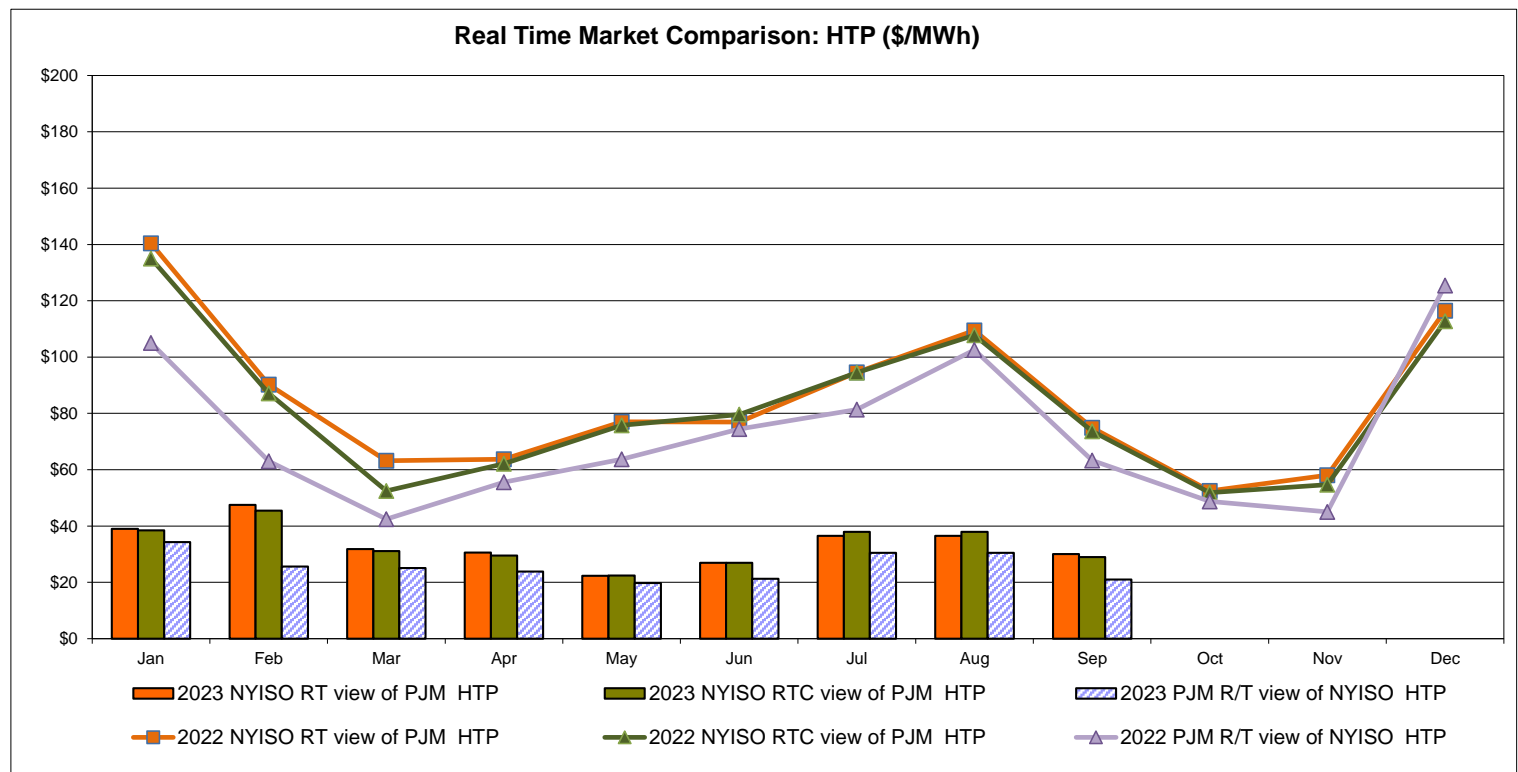
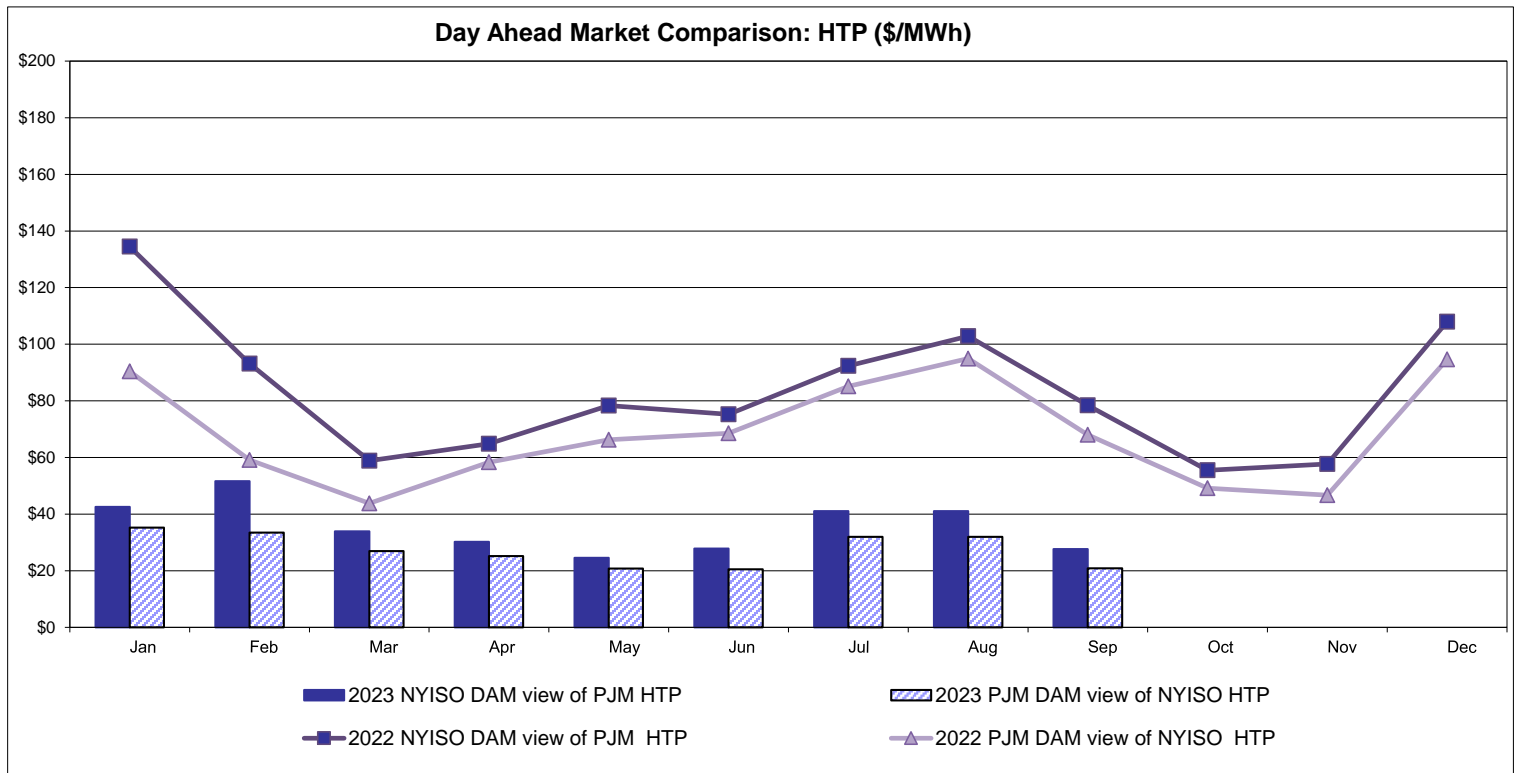
Real Time Market External Zone Comparison - HQ (\$/MWh)



External Controllable Line: Linden VFT (PJM)



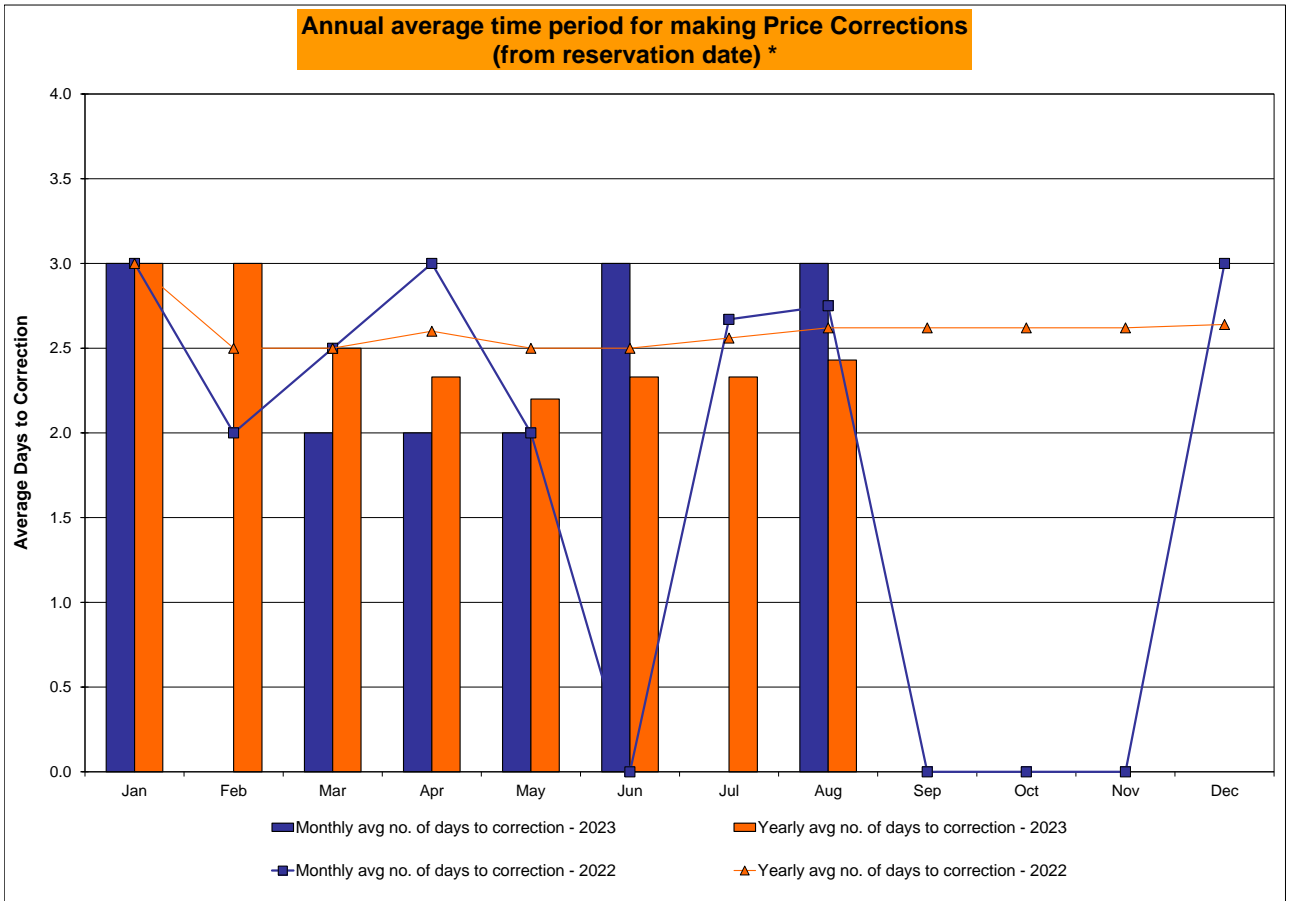
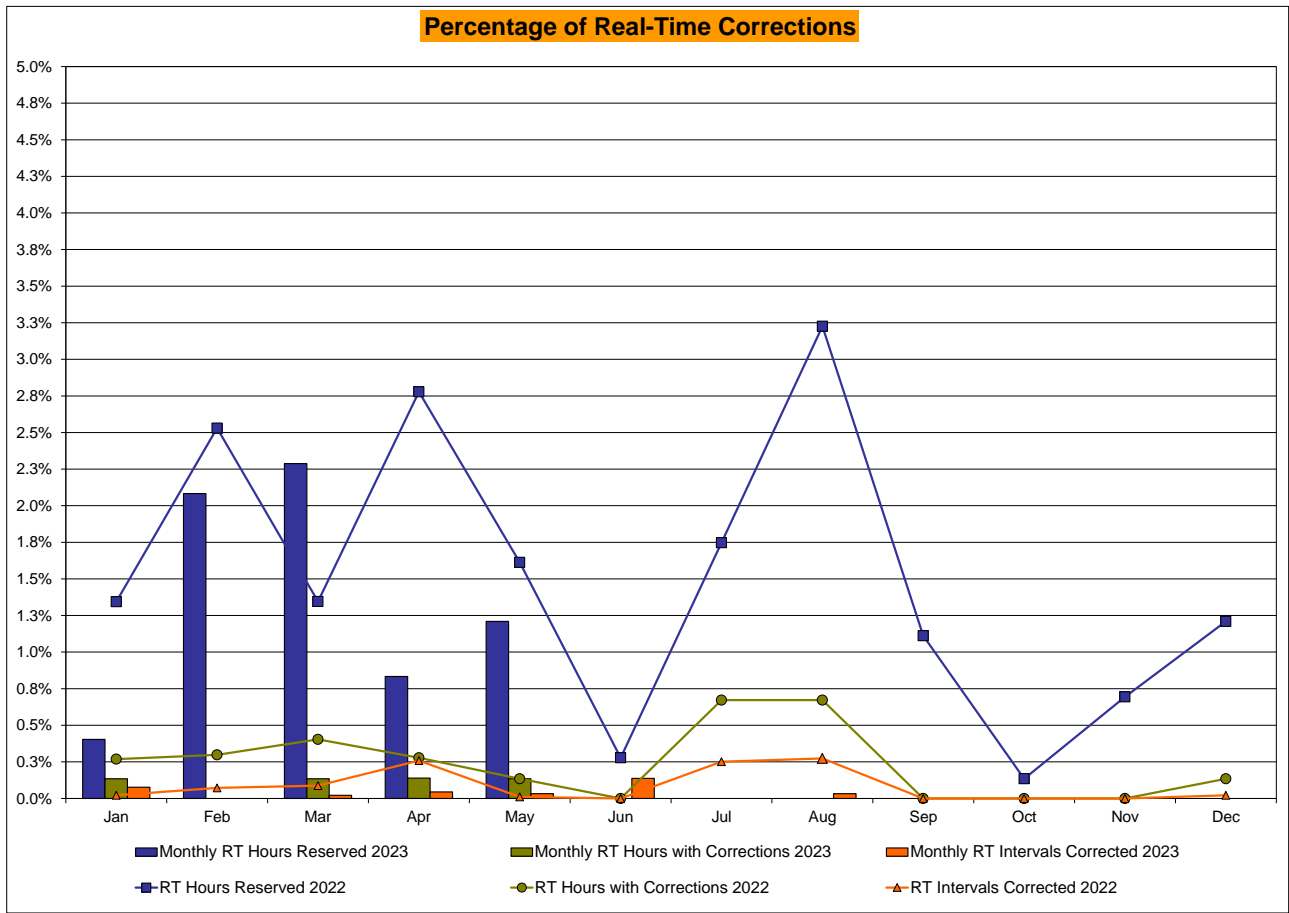
External Controllable Line: Hudson (PJM)



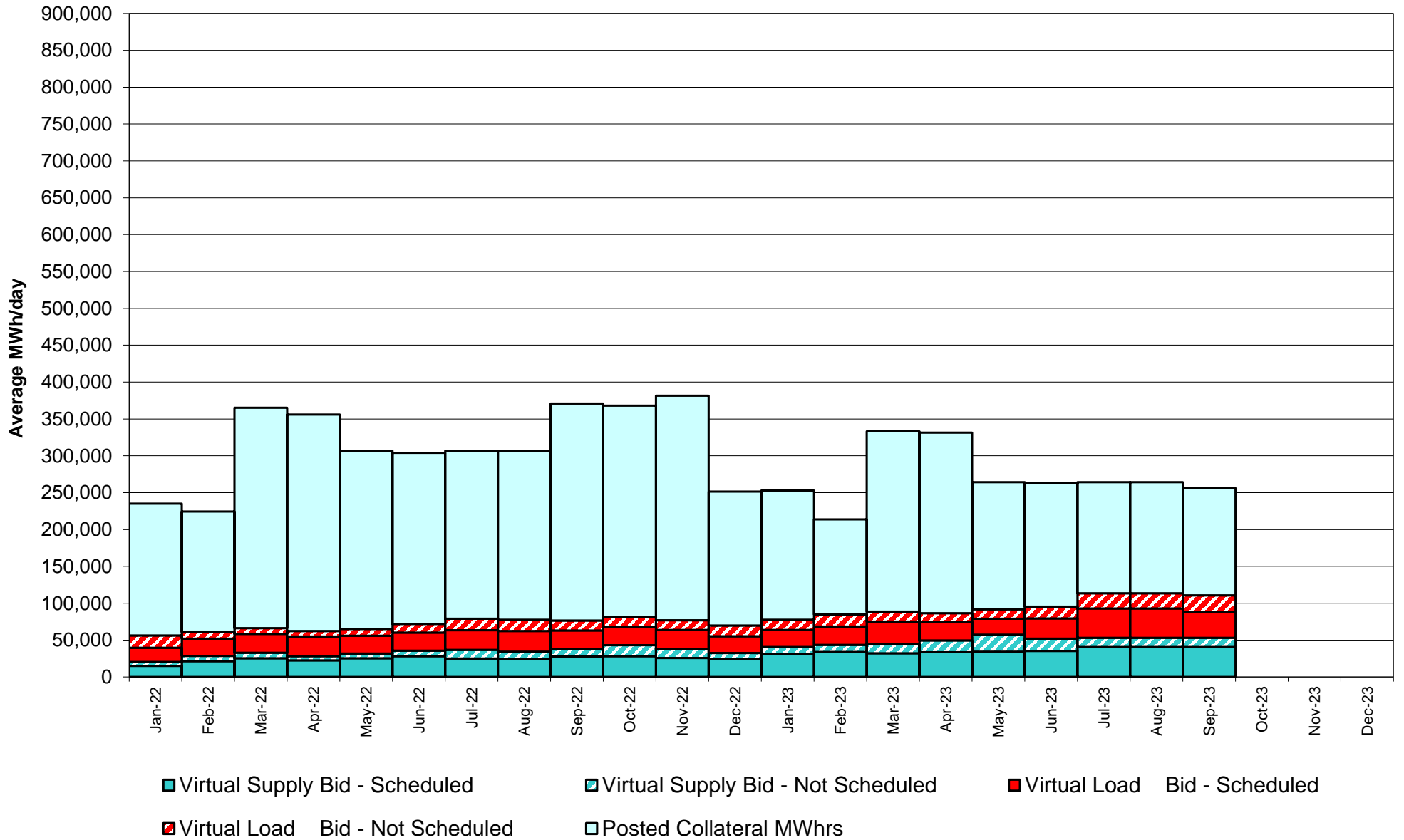
NYISO Real Time Price Correction Statistics

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

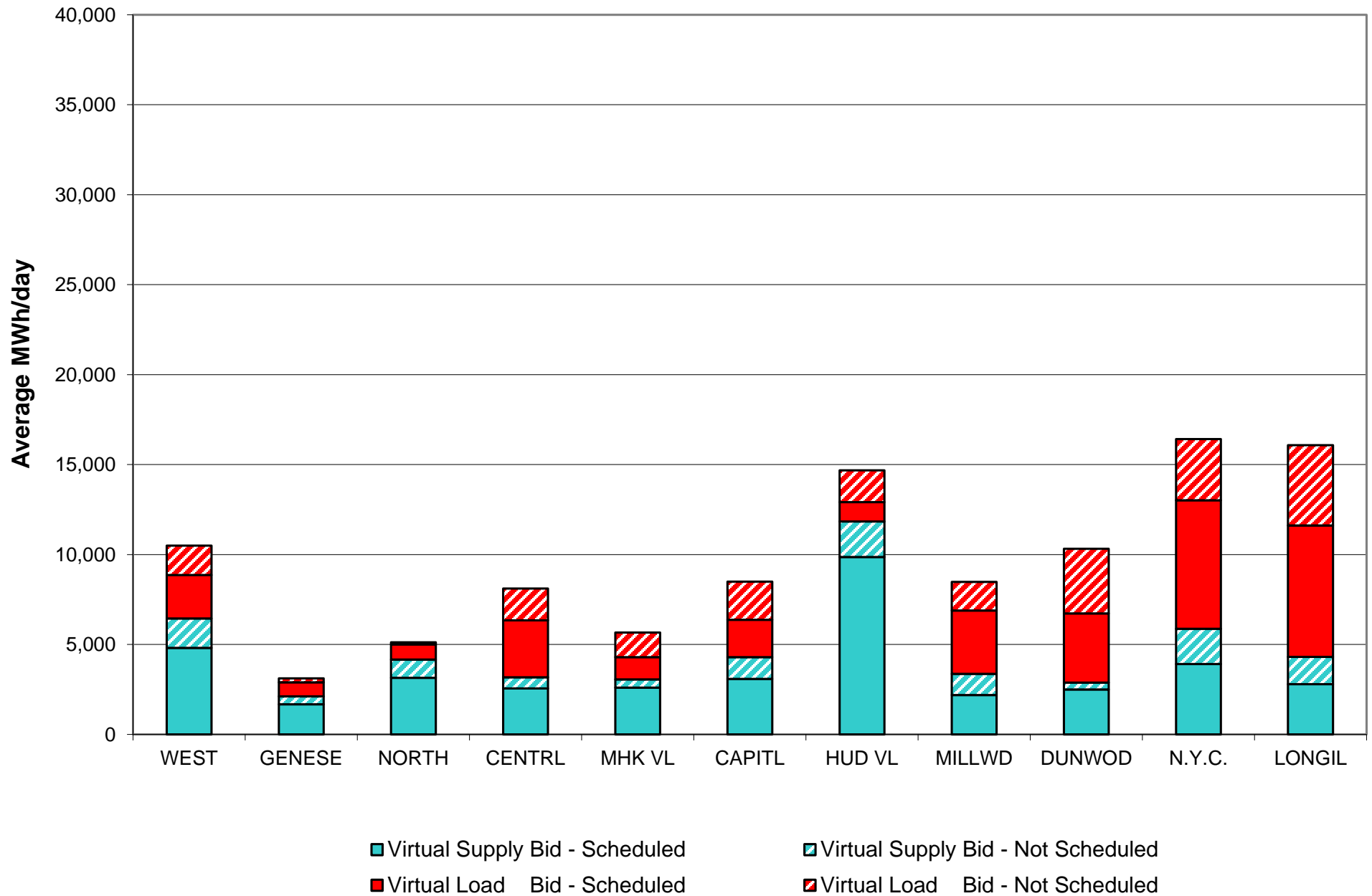
*Calendar days from reservation date; for June 2018 forward, business days from market date



NYISO Virtual Trading Average MWh per day



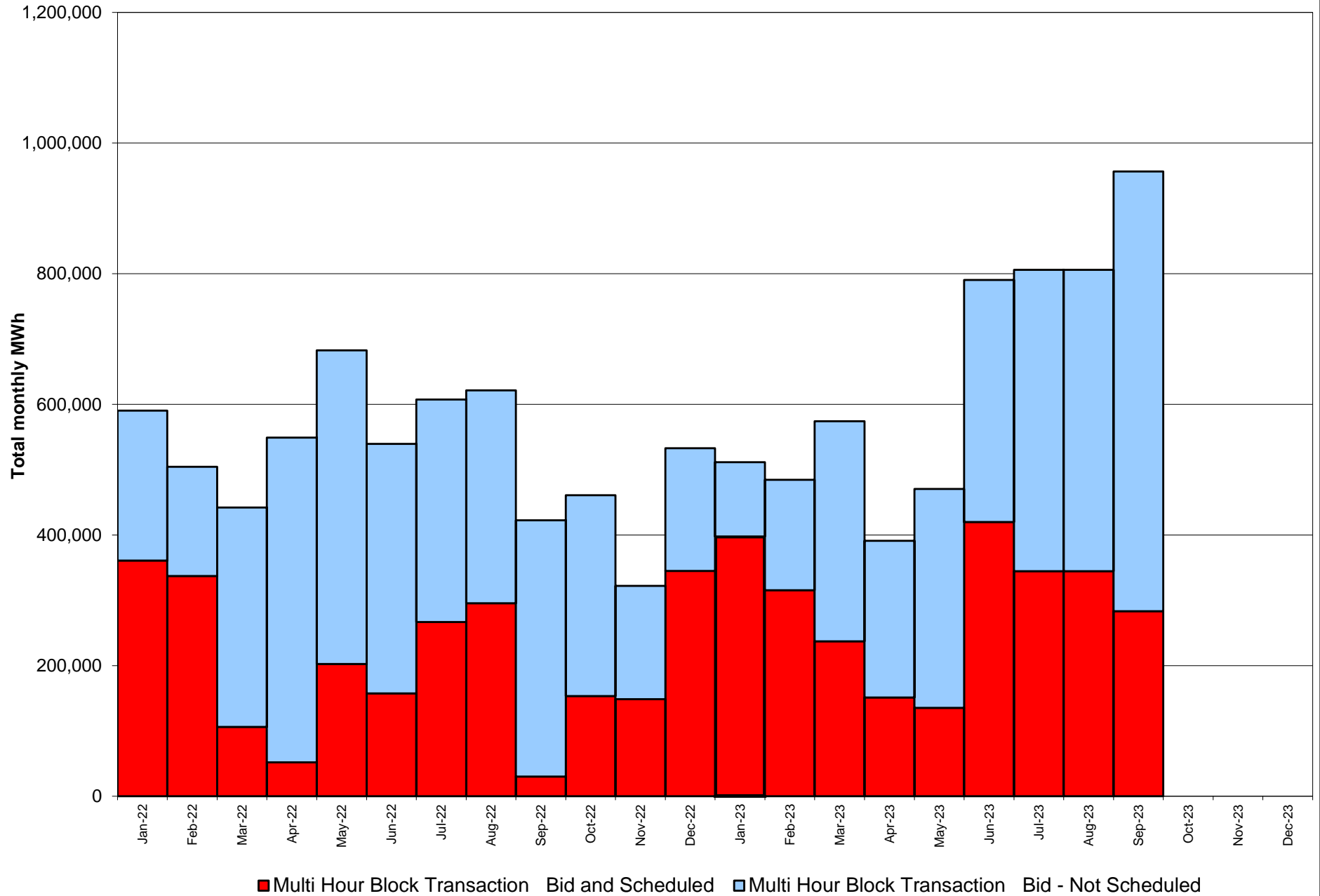
Virtual Load and Supply Zonal Statistics through August 31, 2023



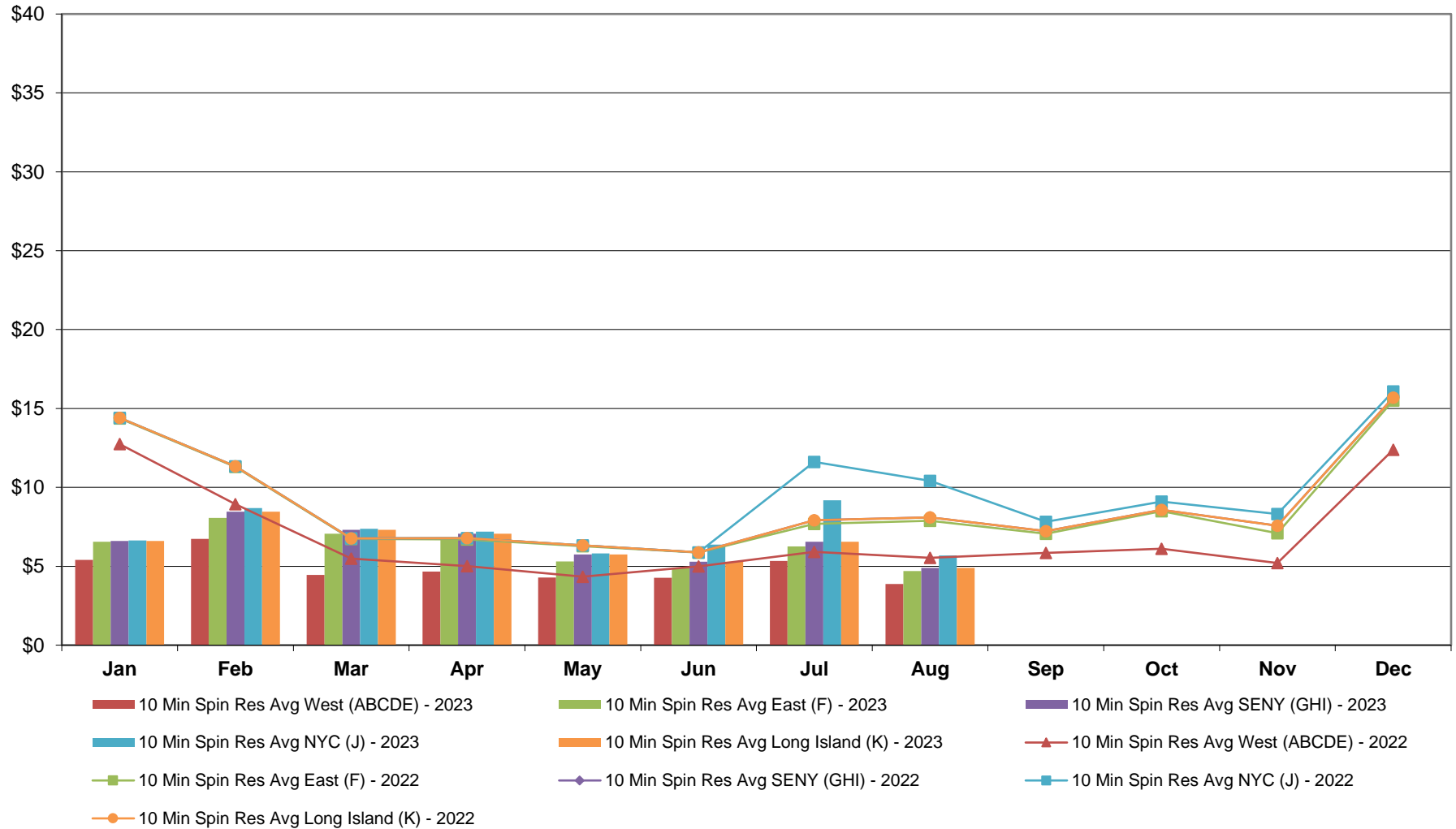
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2023

| | | Virtual Load Bid | | Virtual Supply Bid | | | | Virtual Load Bid | | Virtual Supply Bid | | | | Virtual Load Bid | | Virtual Supply Bid | |
|--------|--------|------------------|---------------|--------------------|---------------|--------|--------|------------------|---------------|--------------------|---------------|--------|--------|------------------|---------------|--------------------|---------------|
| Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled | Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled | Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled |
| WEST | Jan-23 | 3,364 | 1,605 | 5,555 | 1,026 | MHK VL | Jan-23 | 1,312 | 1,038 | 1,590 | 558 | DUNWOD | Jan-23 | 862 | 1,623 | 1,884 | 319 |
| | Feb-23 | 2,266 | 1,863 | 6,652 | 1,270 | | Feb-23 | 1,146 | 1,395 | 2,484 | 436 | | Feb-23 | 1,366 | 1,793 | 2,082 | 408 |
| | Mar-23 | 3,318 | 1,373 | 5,353 | 2,062 | | Mar-23 | 1,815 | 829 | 1,488 | 1,135 | | Mar-23 | 2,505 | 1,556 | 2,093 | 670 |
| | Apr-23 | 2,407 | 1,561 | 5,939 | 1,245 | | Apr-23 | 1,182 | 841 | 1,556 | 450 | | Apr-23 | 1,941 | 1,615 | 1,682 | 633 |
| | May-23 | 2,572 | 1,636 | 3,868 | 1,941 | | May-23 | 1,165 | 1,312 | 2,365 | 567 | | May-23 | 1,434 | 1,391 | 2,719 | 680 |
| | Jun-23 | 3,187 | 2,289 | 4,717 | 1,351 | | Jun-23 | 1,774 | 1,301 | 2,009 | 585 | | Jun-23 | 2,342 | 2,422 | 2,299 | 522 |
| | Jul-23 | 2,249 | 2,400 | 4,471 | 1,796 | | Jul-23 | 1,402 | 1,292 | 2,986 | 350 | | Jul-23 | 5,415 | 3,132 | 1,968 | 592 |
| | Aug-23 | 2,425 | 1,631 | 4,806 | 1,636 | | Aug-23 | 1,237 | 1,372 | 2,604 | 447 | | Aug-23 | 3,845 | 3,593 | 2,504 | 371 |
| | Sep-23 | | | | | | Sep-23 | | | | | | Sep-23 | | | | |
| | Oct-23 | | | | | | Oct-23 | | | | | | Oct-23 | | | | |
| | Nov-23 | | | | | | Nov-23 | | | | | | Nov-23 | | | | |
| | Dec-23 | | | | | | Dec-23 | | | | | | Dec-23 | | | | |
| GENESE | Jan-23 | 1,005 | 469 | 1,438 | 255 | CAPITL | Jan-23 | 1,762 | 834 | 1,824 | 917 | N.Y.C. | Jan-23 | 2,674 | 2,287 | 4,516 | 977 |
| | Feb-23 | 1,136 | 523 | 1,480 | 586 | | Feb-23 | 1,902 | 1,166 | 2,655 | 729 | | Feb-23 | 2,663 | 2,398 | 3,564 | 1,126 |
| | Mar-23 | 835 | 495 | 1,562 | 905 | | Mar-23 | 3,256 | 1,595 | 2,454 | 594 | | Mar-23 | 2,230 | 2,393 | 4,646 | 1,121 |
| | Apr-23 | 982 | 746 | 1,817 | 584 | | Apr-23 | 2,509 | 960 | 2,303 | 695 | | Apr-23 | 2,032 | 1,683 | 3,490 | 1,100 |
| | May-23 | 721 | 408 | 1,807 | 568 | | May-23 | 1,691 | 681 | 2,810 | 736 | | May-23 | 2,063 | 2,034 | 4,284 | 1,488 |
| | Jun-23 | 933 | 520 | 1,811 | 529 | | Jun-23 | 2,121 | 783 | 3,359 | 808 | | Jun-23 | 4,139 | 2,409 | 3,742 | 1,700 |
| | Jul-23 | 747 | 412 | 1,947 | 394 | | Jul-23 | 2,610 | 863 | 3,616 | 1,027 | | Jul-23 | 9,758 | 3,758 | 3,562 | 1,862 |
| | Aug-23 | 790 | 224 | 1,674 | 435 | | Aug-23 | 2,081 | 2,114 | 3,087 | 1,208 | | Aug-23 | 7,143 | 3,406 | 3,912 | 1,955 |
| | Sep-23 | | | | | | Sep-23 | | | | | | Sep-23 | | | | |
| | Oct-23 | | | | | | Oct-23 | | | | | | Oct-23 | | | | |
| | Nov-23 | | | | | | Nov-23 | | | | | | Nov-23 | | | | |
| | Dec-23 | | | | | | Dec-23 | | | | | | Dec-23 | | | | |
| NORTH | Jan-23 | 1,246 | 284 | 2,910 | 1,072 | HUD VL | Jan-23 | 835 | 1,168 | 5,672 | 1,513 | LONGIL | Jan-23 | 4,119 | 2,358 | 2,370 | 1,687 |
| | Feb-23 | 1,111 | 302 | 2,854 | 1,432 | | Feb-23 | 1,335 | 1,484 | 5,382 | 1,297 | | Feb-23 | 4,408 | 2,440 | 2,494 | 1,130 |
| | Mar-23 | 789 | 383 | 3,605 | 1,395 | | Mar-23 | 2,224 | 1,049 | 5,815 | 1,357 | | Mar-23 | 5,725 | 1,753 | 1,778 | 1,029 |
| | Apr-23 | 615 | 332 | 3,338 | 854 | | Apr-23 | 896 | 846 | 8,301 | 7,864 | | Apr-23 | 4,436 | 1,401 | 2,087 | 746 |
| | May-23 | 938 | 184 | 2,274 | 964 | | May-23 | 1,119 | 937 | 7,383 | 13,585 | | May-23 | 3,608 | 1,817 | 2,640 | 1,073 |
| | Jun-23 | 1,032 | 148 | 2,685 | 629 | | Jun-23 | 1,784 | 1,120 | 8,337 | 7,759 | | Jun-23 | 5,238 | 2,124 | 1,770 | 1,359 |
| | Jul-23 | 777 | 179 | 3,193 | 699 | | Jul-23 | 1,397 | 1,690 | 12,207 | 2,396 | | Jul-23 | 6,977 | 3,999 | 2,319 | 1,911 |
| | Aug-23 | 840 | 104 | 3,144 | 1,024 | | Aug-23 | 1,074 | 1,768 | 9,868 | 1,973 | | Aug-23 | 7,301 | 4,466 | 2,796 | 1,516 |
| | Sep-23 | | | | | | Sep-23 | | | | | | Sep-23 | | | | |
| | Oct-23 | | | | | | Oct-23 | | | | | | Oct-23 | | | | |
| | Nov-23 | | | | | | Nov-23 | | | | | | Nov-23 | | | | |
| | Dec-23 | | | | | | Dec-23 | | | | | | Dec-23 | | | | |
| CENTRL | Jan-23 | 5,294 | 1,193 | 1,715 | 563 | MILLWD | Jan-23 | 649 | 1,103 | 2,019 | 278 | NYISO | Jan-23 | 23,122 | 13,963 | 31,494 | 9,165 |
| | Feb-23 | 6,851 | 1,526 | 2,219 | 703 | | Feb-23 | 888 | 1,228 | 2,021 | 434 | | Feb-23 | 25,071 | 16,118 | 33,885 | 9,552 |
| | Mar-23 | 6,340 | 843 | 1,355 | 1,520 | | Mar-23 | 1,616 | 992 | 1,938 | 736 | | Mar-23 | 30,654 | 13,262 | 32,086 | 12,525 |
| | Apr-23 | 6,824 | 914 | 1,546 | 855 | | Apr-23 | 1,564 | 853 | 1,566 | 831 | | Apr-23 | 25,387 | 11,752 | 33,625 | 15,856 |
| | May-23 | 5,246 | 1,357 | 1,858 | 830 | | May-23 | 995 | 1,119 | 2,250 | 784 | | May-23 | 21,553 | 12,874 | 34,260 | 23,216 |
| | Jun-23 | 3,257 | 1,442 | 2,305 | 784 | | Jun-23 | 1,392 | 1,329 | 2,385 | 667 | | Jun-23 | 27,199 | 15,886 | 35,419 | 16,693 |
| | Jul-23 | 3,351 | 1,609 | 2,416 | 423 | | Jul-23 | 4,935 | 1,437 | 1,914 | 1,124 | | Jul-23 | 39,618 | 20,771 | 40,598 | 12,575 |
| | Aug-23 | 3,177 | 1,759 | 2,562 | 608 | | Aug-23 | 3,526 | 1,592 | 2,188 | 1,174 | | Aug-23 | 33,440 | 22,030 | 39,145 | 12,347 |
| | Sep-23 | | | | | | Sep-23 | | | | | | Sep-23 | | | | |
| | Oct-23 | | | | | | Oct-23 | | | | | | Oct-23 | | | | |
| | Nov-23 | | | | | | Nov-23 | | | | | | Nov-23 | | | | |
| | Dec-23 | | | | | | Dec-23 | | | | | | Dec-23 | | | | |

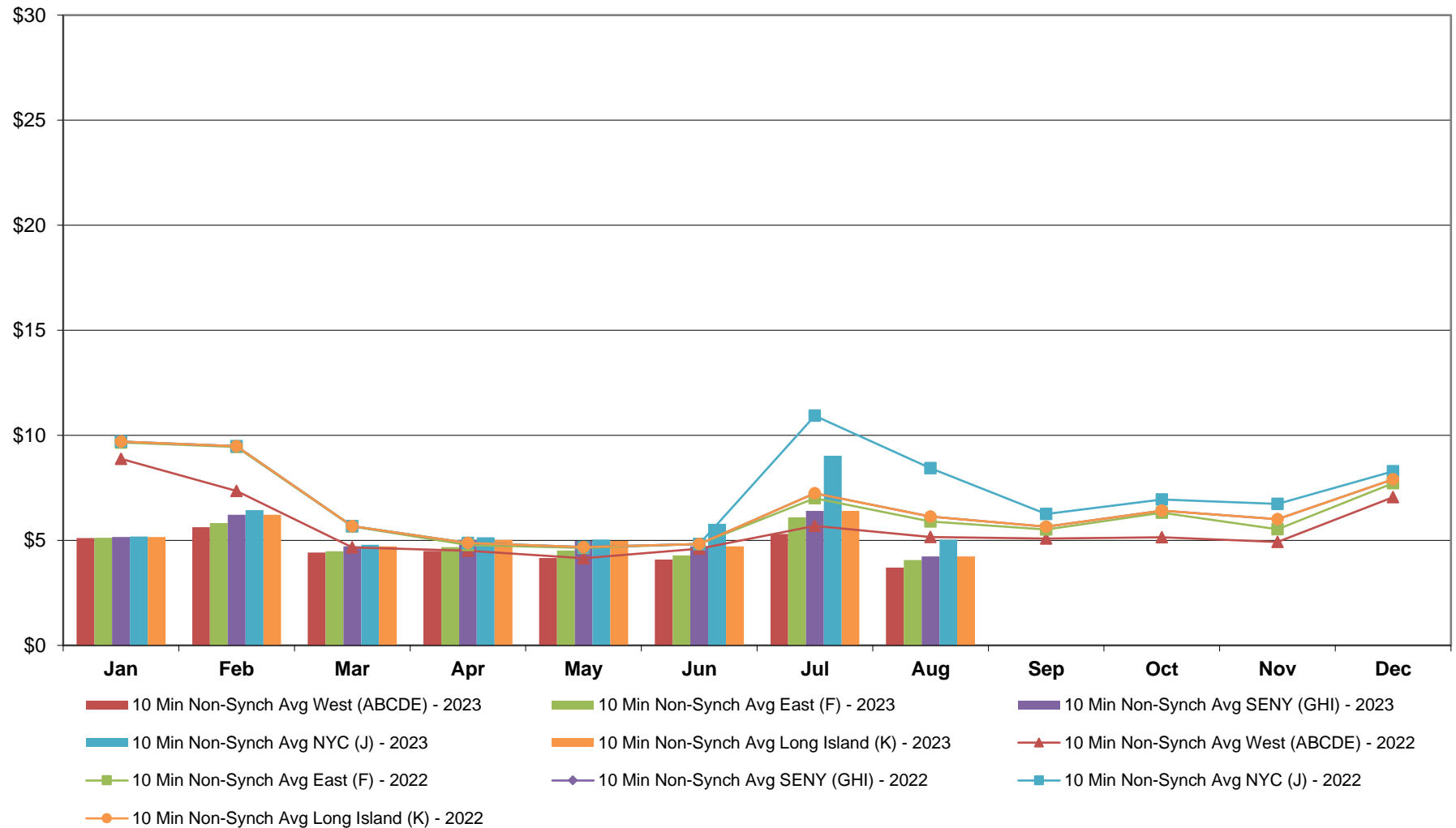
NYISO Multi Hour Block Transactions Monthly Total MWh



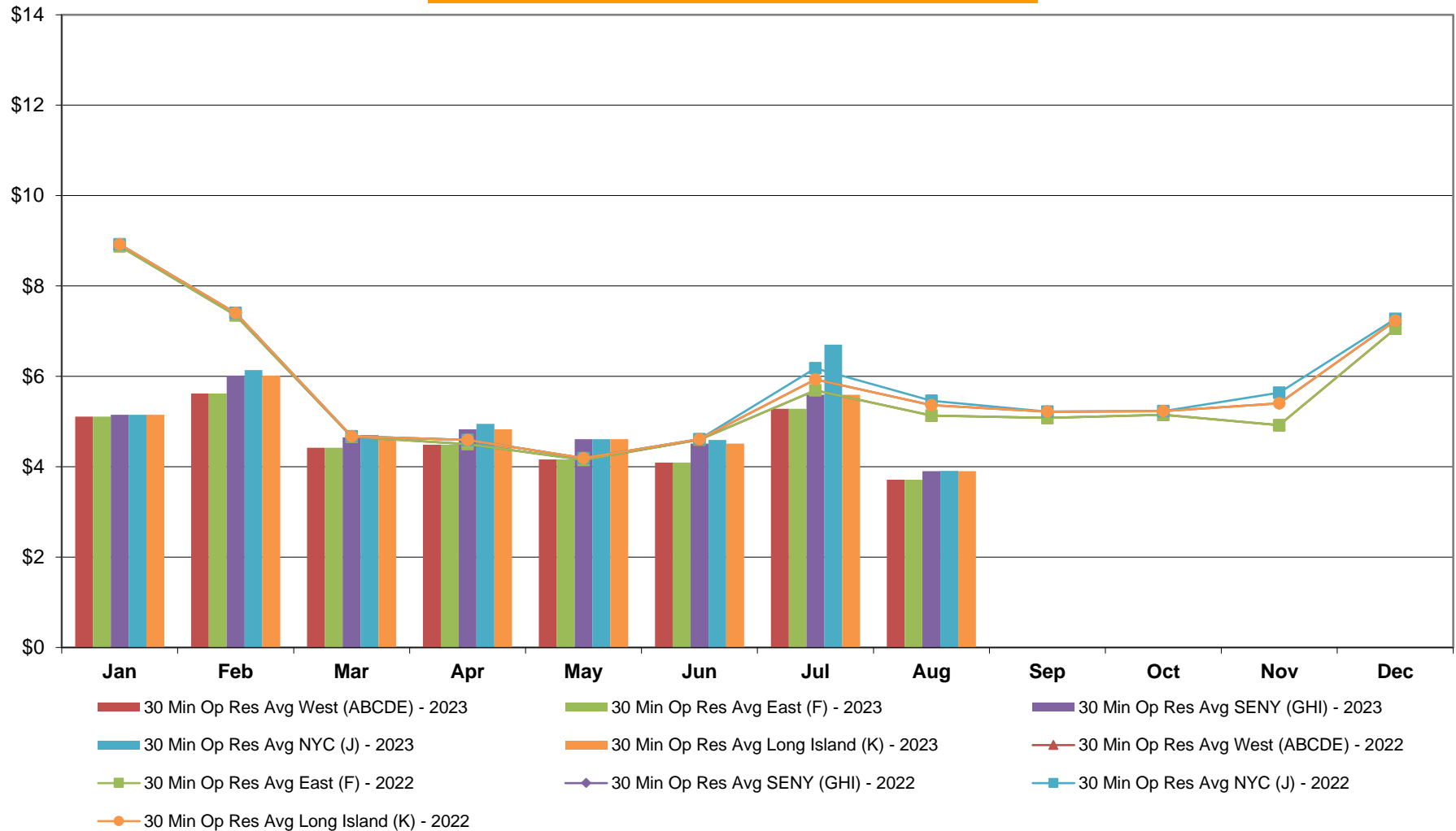
NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 10 Min Spin 2022 - 2023



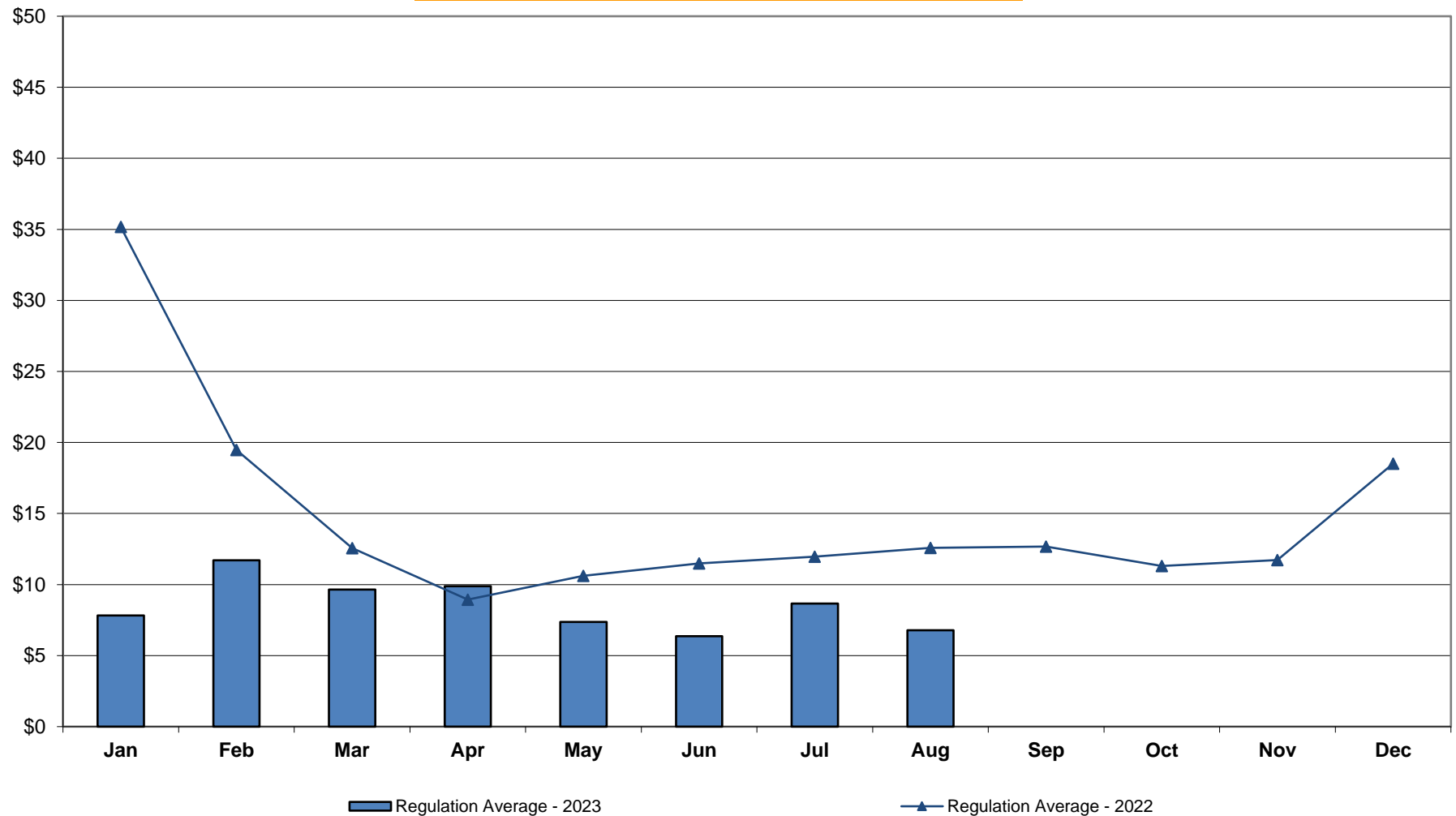
NYISO Monthly Average Ancillary Service Prices **Day Ahead Market - 10 Min Non-Synch 2022 - 2023**



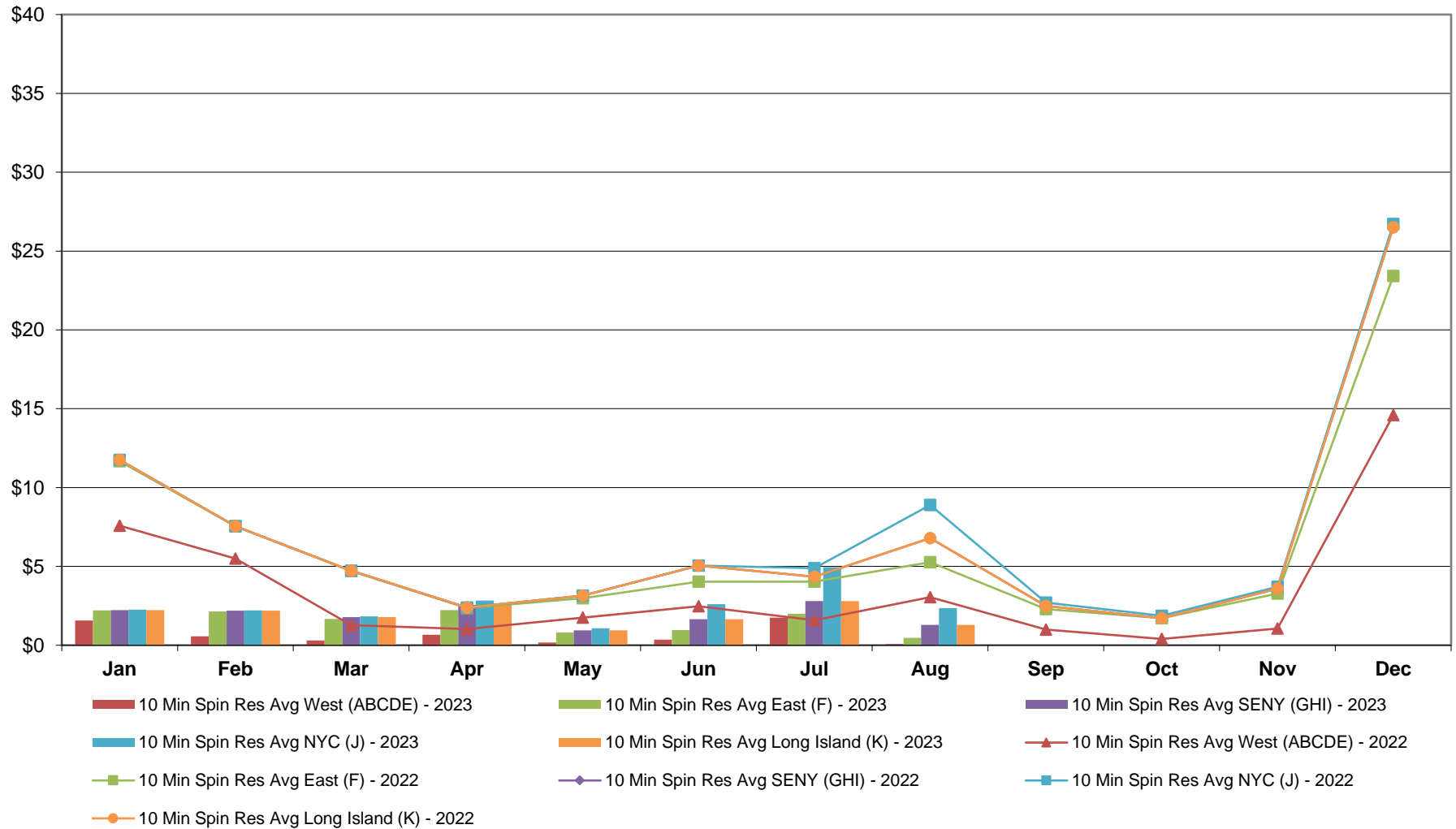
NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 30 Min Op Res 2022 - 2023



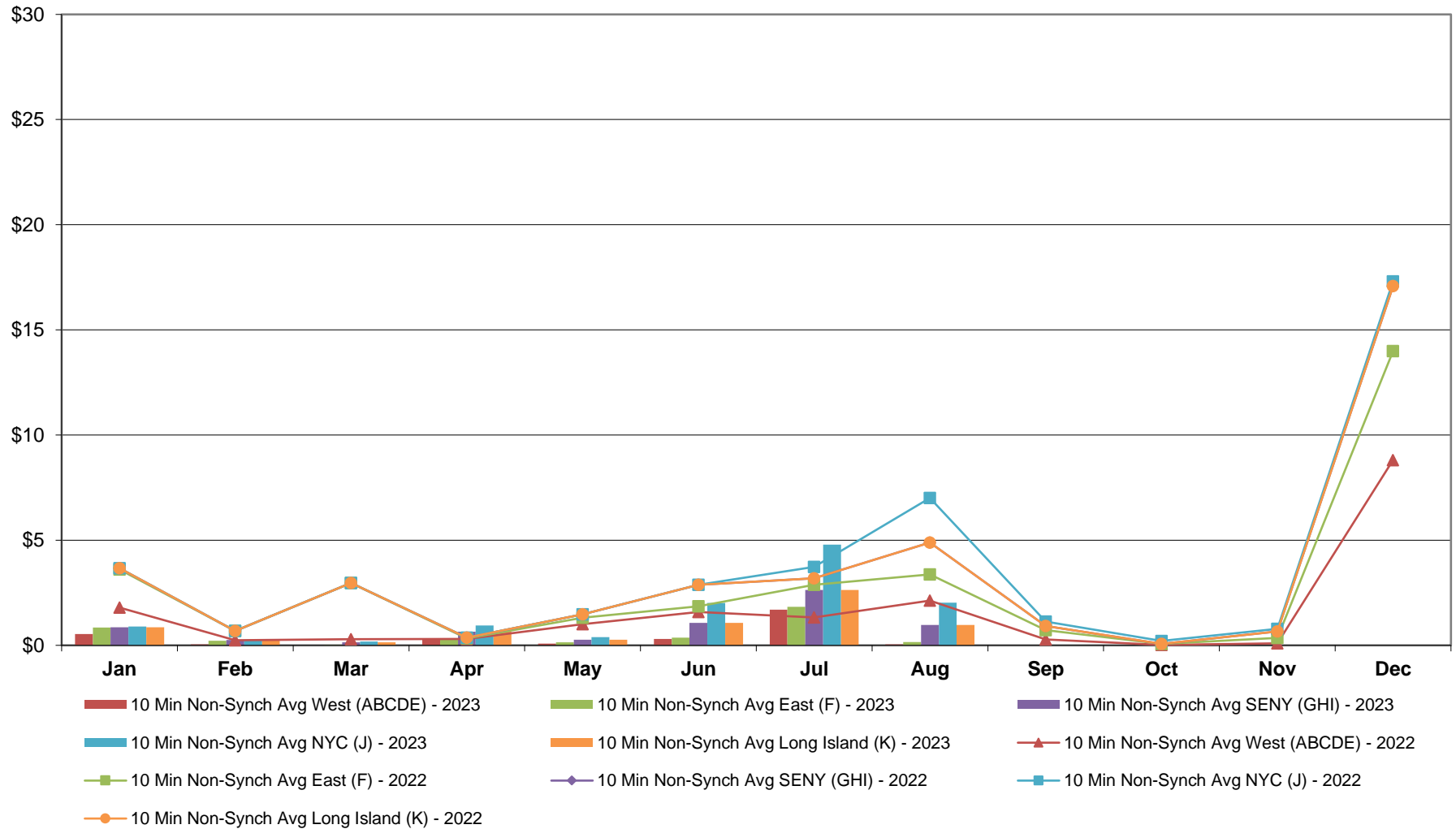
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - Regulation 2022 - 2023**



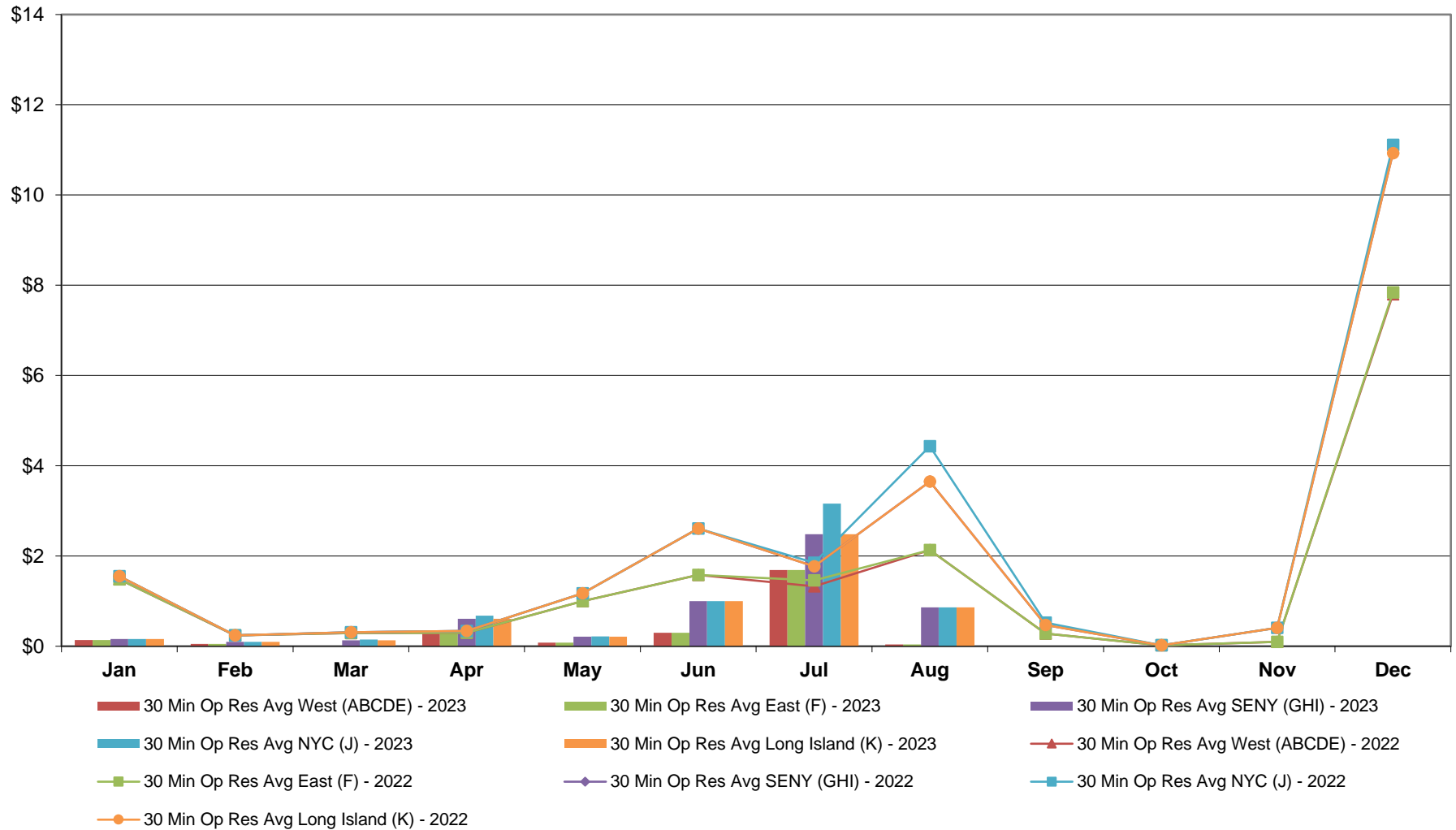
NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Spin 2022 - 2023



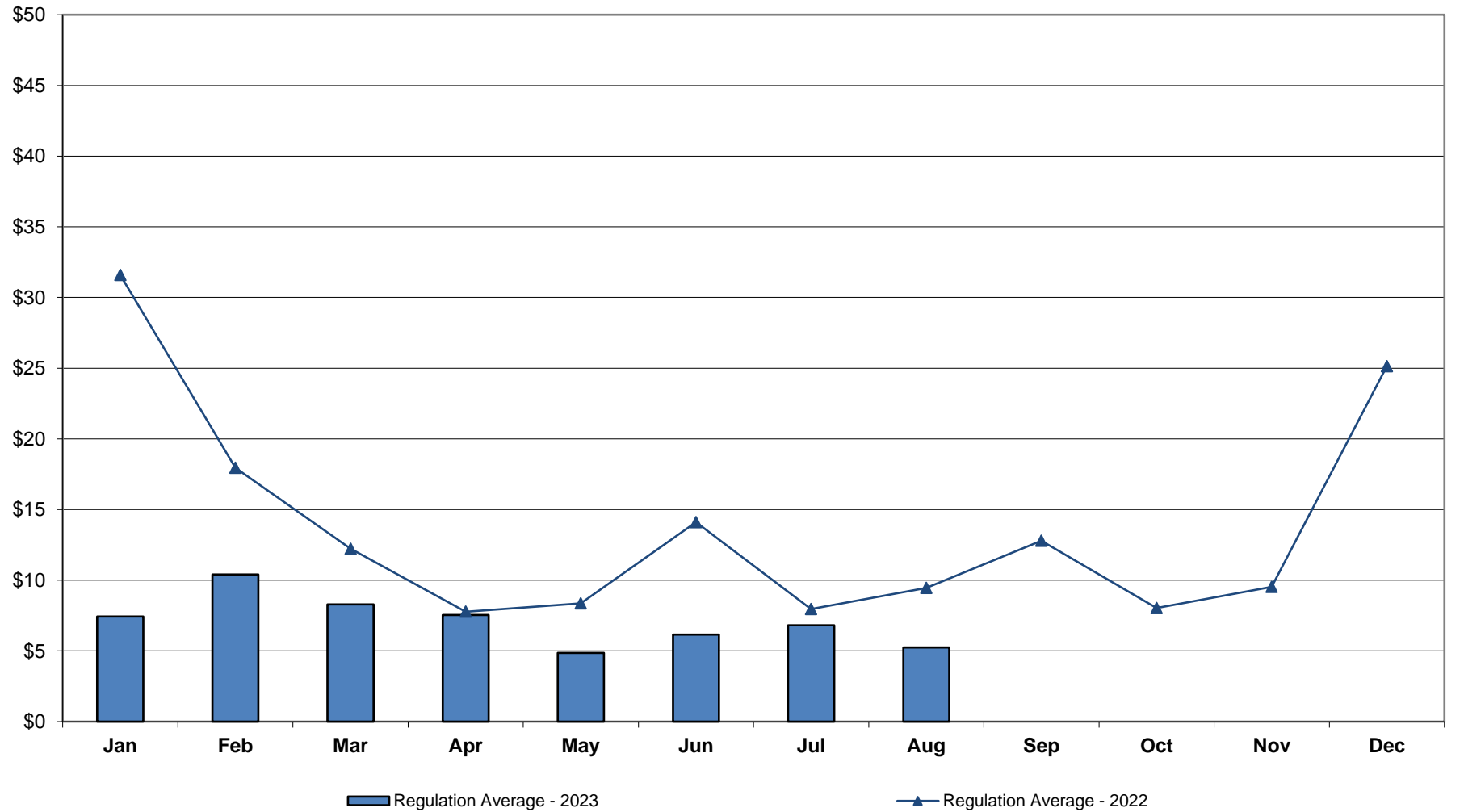
NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Non-Synch 2022 - 2023



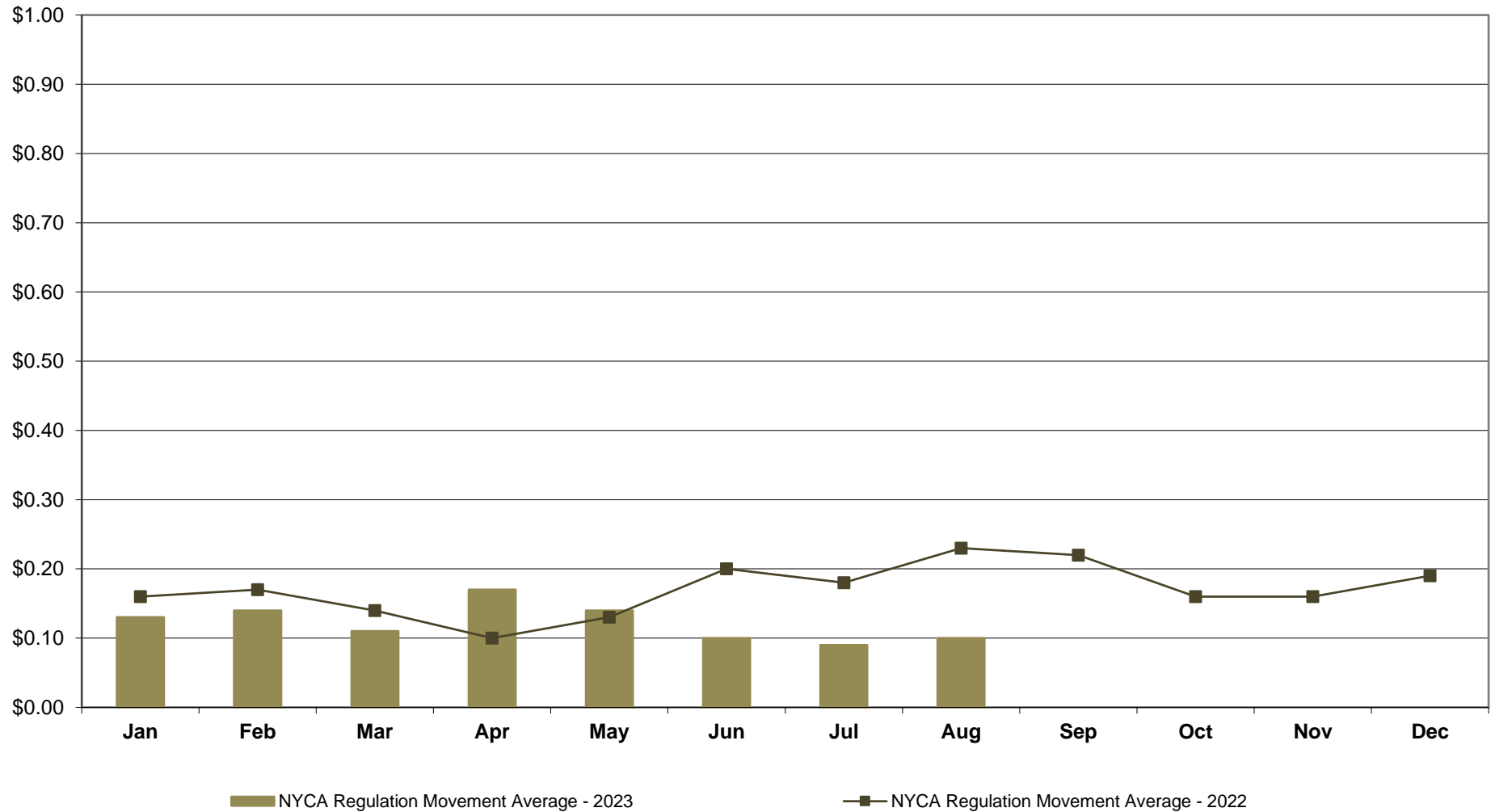
NYISO Monthly Average Ancillary Service Prices RTC Market - 30 Min Op Res 2022 - 2023



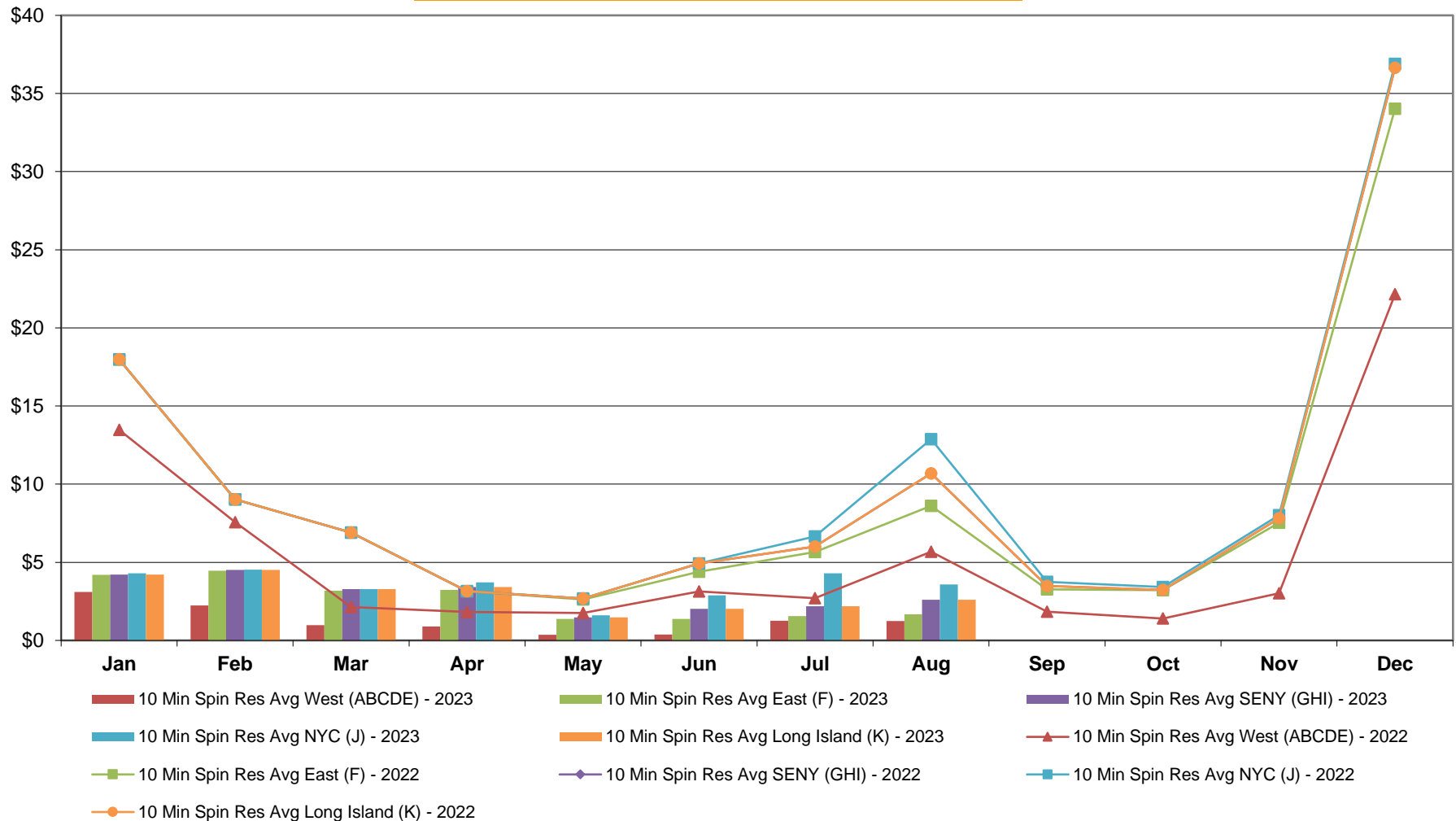
**NYISO Monthly Average Ancillary Service Prices
RTC Market - Regulation 2022 - 2023**



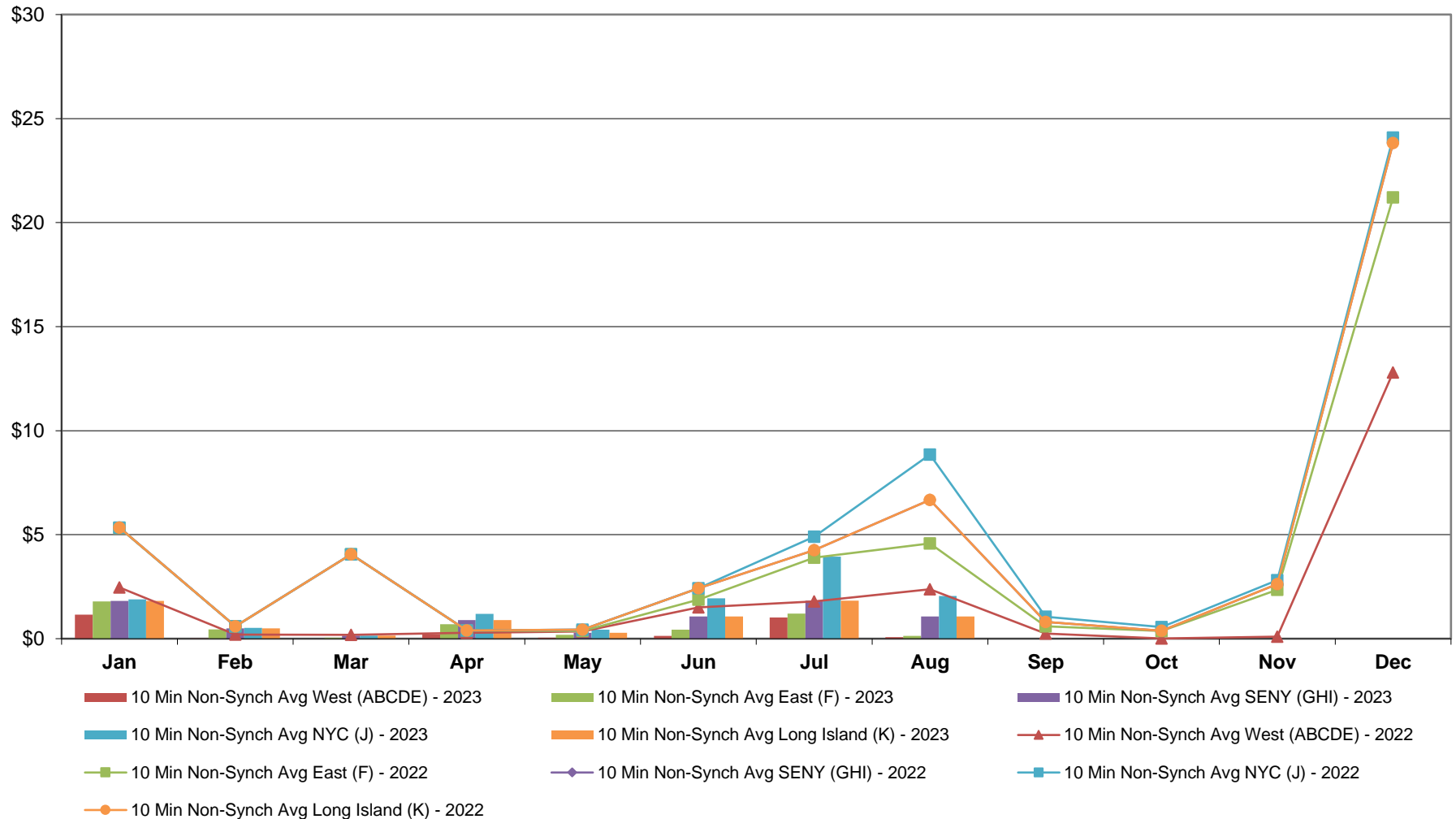
NYISO Monthly Average Ancillary Service Prices RTC Market - Regulation Movement 2022 - 2023



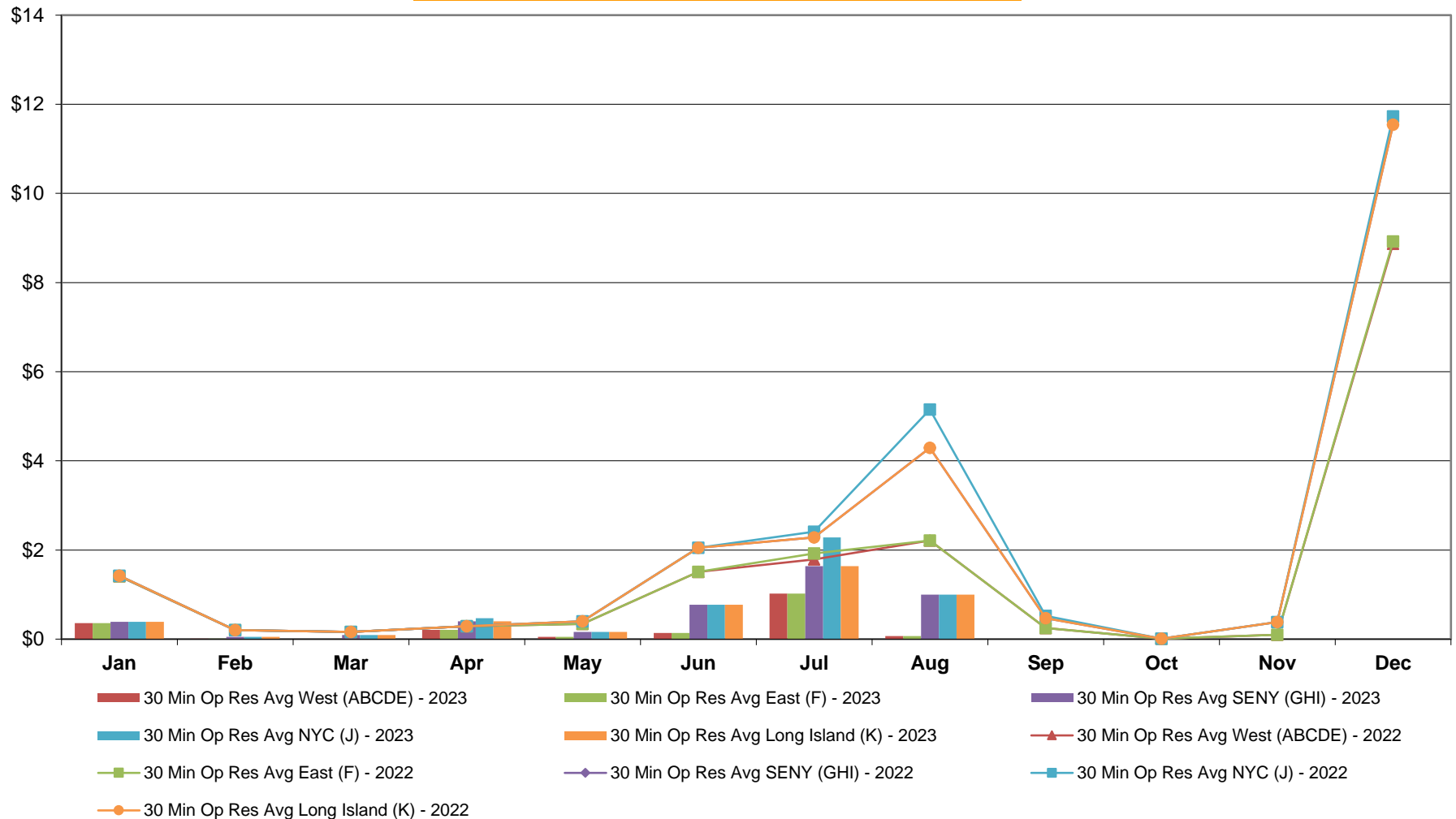
NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Spin 2022 - 2023



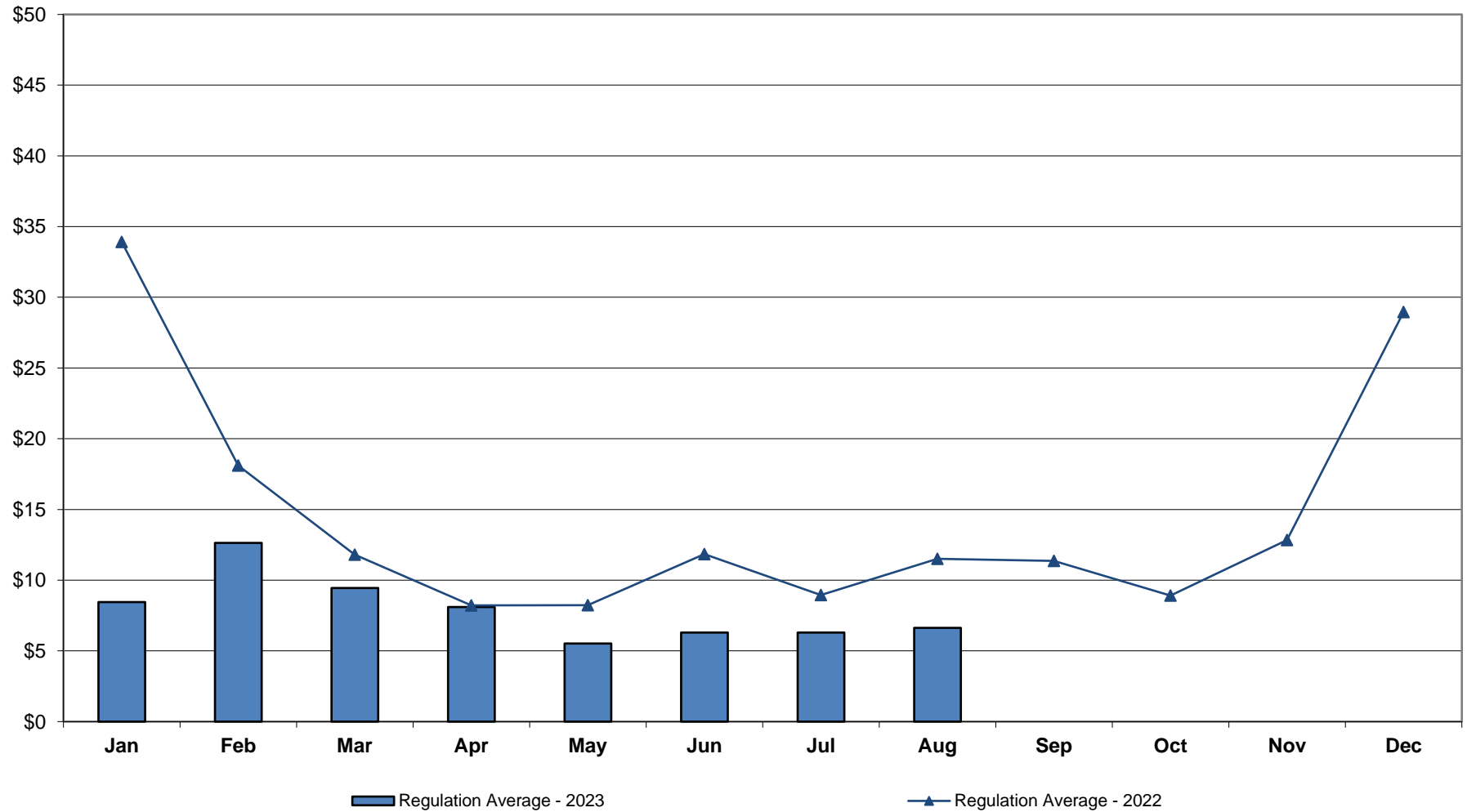
NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Non-Synch 2022 - 2023



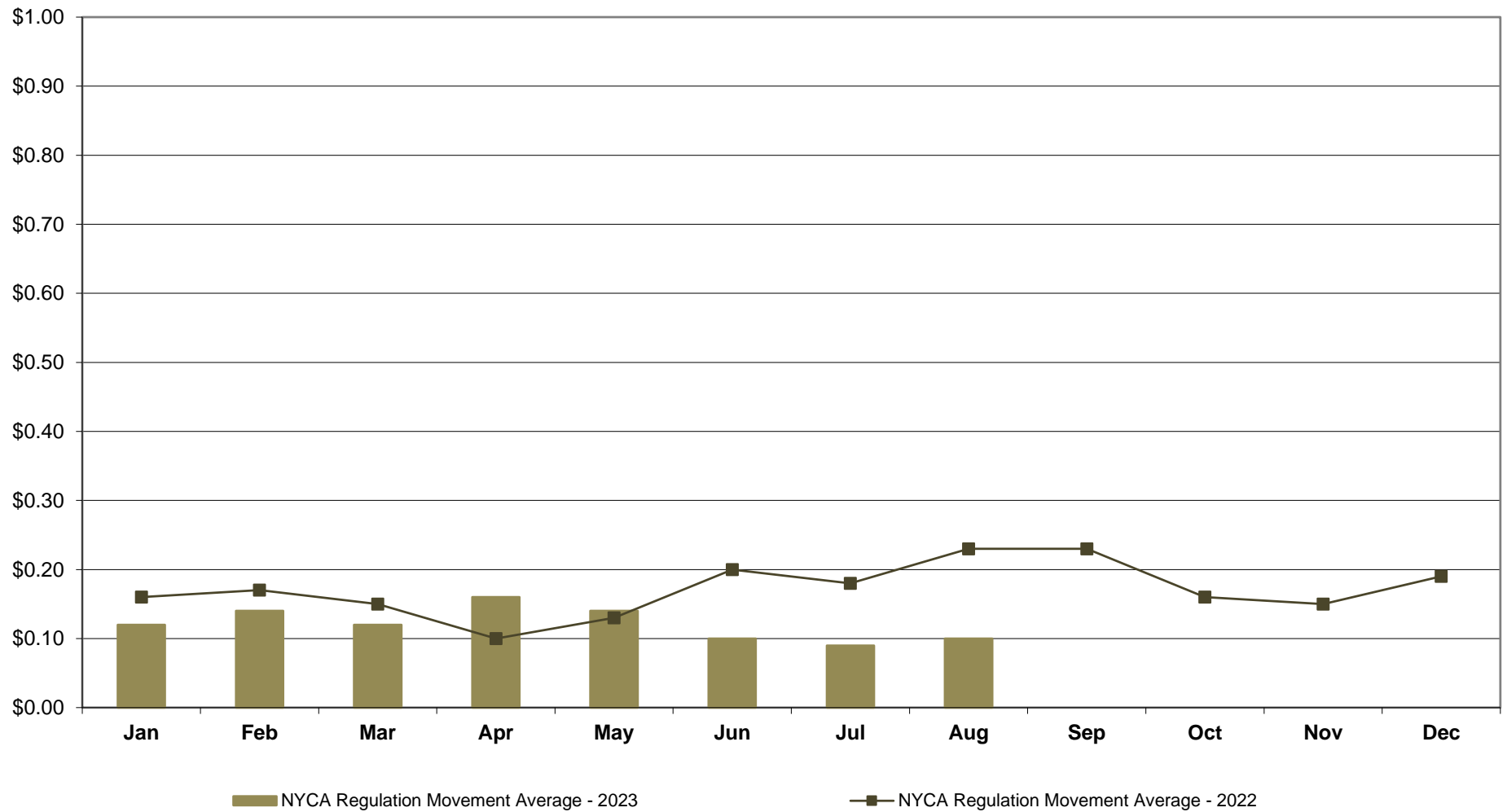
NYISO Monthly Average Ancillary Service Prices Real Time Market - 30 Min Op Res 2022 - 2023



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



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



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

| <u>2023</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>Day Ahead Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 6.60 | 8.46 | 7.31 | 7.07 | 5.74 | 5.29 | 6.56 | 4.89 | | | | |
| 10 Min Spin NYC (J) | 6.63 | 8.68 | 7.38 | 7.20 | 5.81 | 6.37 | 9.18 | 5.68 | | | | |
| 10 Min Spin SENY (GHI) | 6.60 | 8.46 | 7.31 | 7.07 | 5.74 | 5.29 | 6.56 | 4.89 | | | | |
| 10 Min Spin East (F) | 6.56 | 8.06 | 7.07 | 6.73 | 5.30 | 4.87 | 6.25 | 4.70 | | | | |
| 10 Min Spin West (ABCDE) | 5.41 | 6.73 | 4.45 | 4.67 | 4.29 | 4.27 | 5.34 | 3.87 | | | | |
| 10 Min Non Synch Long Island (K) | 5.16 | 6.22 | 4.72 | 5.02 | 4.97 | 4.71 | 6.40 | 4.24 | | | | |
| 10 Min Non Synch NYC (J) | 5.18 | 6.44 | 4.79 | 5.15 | 5.04 | 5.79 | 9.03 | 5.03 | | | | |
| 10 Min Non Synch SENY (GHI) | 5.16 | 6.22 | 4.72 | 5.02 | 4.97 | 4.71 | 6.40 | 4.24 | | | | |
| 10 Min Non Synch East (F) | 5.12 | 5.82 | 4.48 | 4.68 | 4.52 | 4.28 | 6.10 | 4.06 | | | | |
| 10 Min Non Synch West (ABCDE) | 5.11 | 5.62 | 4.42 | 4.49 | 4.16 | 4.09 | 5.30 | 3.71 | | | | |
| 30 Min Long Island (K) | 5.15 | 6.02 | 4.65 | 4.83 | 4.61 | 4.51 | 5.59 | 3.90 | | | | |
| 30 Min NYC (J) | 5.15 | 6.14 | 4.70 | 4.95 | 4.61 | 4.59 | 6.70 | 3.91 | | | | |
| 30 Min SENY (GHI) | 5.15 | 6.02 | 4.65 | 4.83 | 4.61 | 4.51 | 5.59 | 3.90 | | | | |
| 30 Min East (F) | 5.11 | 5.62 | 4.42 | 4.49 | 4.16 | 4.09 | 5.28 | 3.71 | | | | |
| 30 Min West (ABCDE) | 5.11 | 5.62 | 4.42 | 4.49 | 4.16 | 4.09 | 5.28 | 3.71 | | | | |
| Regulation | 7.82 | 11.71 | 9.65 | 9.88 | 7.36 | 6.37 | 8.66 | 6.79 | | | | |
| <u>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| <u>Day Ahead Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 14.40 | 11.34 | 6.76 | 6.79 | 6.32 | 5.88 | 7.92 | 8.10 | 7.22 | 8.57 | 7.57 | 15.69 |
| 10 Min Spin NYC (J) | 15.32 | 12.52 | 7.29 | 6.80 | 7.01 | 6.12 | 11.61 | 10.41 | 7.81 | 9.10 | 8.31 | 16.08 |
| 10 Min Spin SENY (GHI) | 14.40 | 11.34 | 6.76 | 6.79 | 6.32 | 5.88 | 7.92 | 8.10 | 7.22 | 8.57 | 7.57 | 15.69 |
| 10 Min Spin East (F) | 14.37 | 11.30 | 6.74 | 6.70 | 6.28 | 5.87 | 7.68 | 7.88 | 7.07 | 8.49 | 7.10 | 15.51 |
| 10 Min Spin West (ABCDE) | 12.74 | 8.93 | 5.48 | 5.01 | 4.34 | 4.99 | 5.91 | 5.53 | 5.84 | 6.11 | 5.20 | 12.39 |
| 10 Min Non Synch Long Island (K) | 9.70 | 9.48 | 5.68 | 4.87 | 4.68 | 4.83 | 7.24 | 6.13 | 5.65 | 6.41 | 6.01 | 7.90 |
| 10 Min Non Synch NYC (J) | 10.61 | 10.66 | 6.20 | 4.89 | 5.38 | 5.07 | 10.93 | 8.44 | 6.25 | 6.94 | 6.74 | 8.29 |
| 10 Min Non Synch SENY (GHI) | 9.70 | 9.48 | 5.68 | 4.87 | 4.68 | 4.83 | 7.24 | 6.13 | 5.65 | 6.41 | 6.01 | 7.90 |
| 10 Min Non Synch East (F) | 9.66 | 9.44 | 5.66 | 4.78 | 4.64 | 4.82 | 7.00 | 5.90 | 5.51 | 6.32 | 5.53 | 7.72 |
| 10 Min Non Synch West (ABCDE) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | 4.60 | 5.69 | 5.16 | 5.08 | 5.15 | 4.92 | 7.05 |
| 30 Min Long Island (K) | 8.92 | 7.40 | 4.67 | 4.59 | 4.19 | 4.61 | 5.93 | 5.36 | 5.22 | 5.23 | 5.40 | 7.23 |
| 30 Min NYC (J) | 8.95 | 7.42 | 4.67 | 4.59 | 4.21 | 4.61 | 6.18 | 5.46 | 5.22 | 5.23 | 5.64 | 7.27 |
| 30 Min SENY (GHI) | 8.92 | 7.40 | 4.67 | 4.59 | 4.19 | 4.61 | 5.93 | 5.36 | 5.22 | 5.23 | 5.40 | 7.23 |
| 30 Min East (F) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | 4.60 | 5.69 | 5.13 | 5.08 | 5.15 | 4.92 | 7.05 |
| 30 Min West (ABCDE) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | 4.60 | 5.69 | 5.13 | 5.08 | 5.15 | 4.92 | 7.05 |
| Regulation | 35.17 | 19.48 | 12.56 | 8.94 | 10.61 | 11.49 | 11.96 | 12.58 | 12.68 | 11.31 | 11.72 | 18.51 |

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

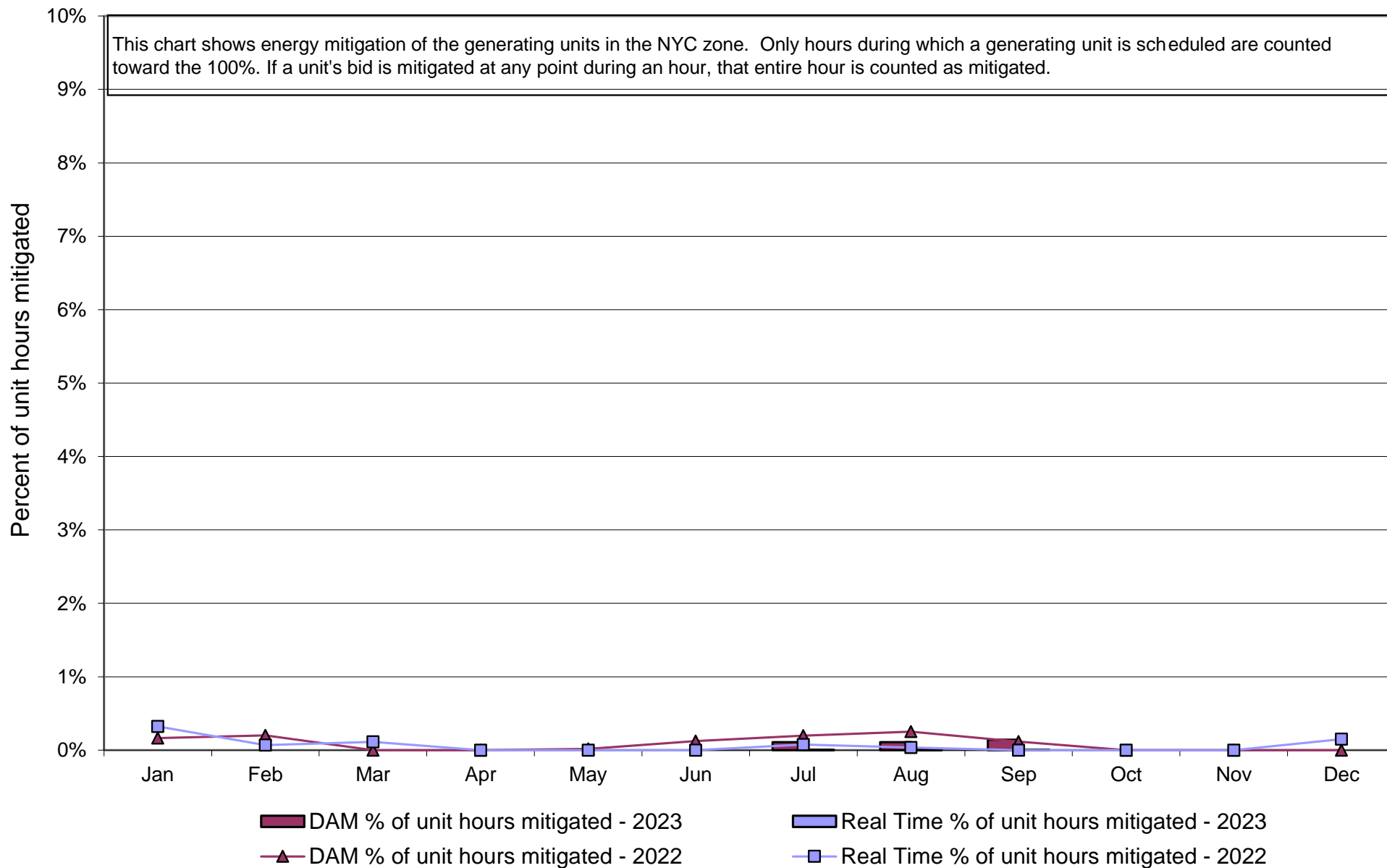
| <u>2023</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>RTC Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 2.22 | 2.19 | 1.79 | 2.55 | 0.95 | 1.66 | 2.80 | 1.29 | | | | |
| 10 Min Spin NYC (J) | 2.26 | 2.21 | 1.83 | 2.84 | 1.07 | 2.60 | 4.96 | 2.35 | | | | |
| 10 Min Spin SENEY (GHI) | 2.22 | 2.19 | 1.79 | 2.55 | 0.95 | 1.66 | 2.80 | 1.29 | | | | |
| 10 Min Spin East (F) | 2.21 | 2.15 | 1.67 | 2.23 | 0.82 | 0.96 | 2.00 | 0.47 | | | | |
| 10 Min Spin West (ABCDE) | 1.57 | 0.56 | 0.30 | 0.67 | 0.17 | 0.36 | 1.75 | 0.08 | | | | |
| 10 Min Non Synch Long Island (K) | 0.86 | 0.26 | 0.14 | 0.65 | 0.27 | 1.07 | 2.63 | 0.97 | | | | |
| 10 Min Non Synch NYC (J) | 0.89 | 0.27 | 0.18 | 0.95 | 0.39 | 2.01 | 4.79 | 2.03 | | | | |
| 10 Min Non Synch SENEY (GHI) | 0.86 | 0.26 | 0.14 | 0.65 | 0.27 | 1.07 | 2.63 | 0.97 | | | | |
| 10 Min Non Synch East (F) | 0.85 | 0.22 | 0.02 | 0.34 | 0.14 | 0.37 | 1.83 | 0.15 | | | | |
| 10 Min Non Synch West (ABCDE) | 0.54 | 0.05 | 0.00 | 0.29 | 0.08 | 0.30 | 1.69 | 0.04 | | | | |
| 30 Min Long Island (K) | 0.16 | 0.10 | 0.13 | 0.61 | 0.21 | 1.00 | 2.48 | 0.86 | | | | |
| 30 Min NYC (J) | 0.16 | 0.10 | 0.15 | 0.68 | 0.22 | 1.00 | 3.16 | 0.86 | | | | |
| 30 Min SENEY (GHI) | 0.16 | 0.10 | 0.13 | 0.61 | 0.21 | 1.00 | 2.48 | 0.86 | | | | |
| 30 Min East (F) | 0.14 | 0.05 | 0.00 | 0.29 | 0.08 | 0.30 | 1.69 | 0.04 | | | | |
| 30 Min West (ABCDE) | 0.14 | 0.05 | 0.00 | 0.29 | 0.08 | 0.30 | 1.69 | 0.04 | | | | |
| Regulation | 7.44 | 10.40 | 8.29 | 7.55 | 4.86 | 6.16 | 6.81 | 5.25 | | | | |
| NYCA Regulation Movement | 0.13 | 0.14 | 0.11 | 0.17 | 0.14 | 0.10 | 0.09 | 0.10 | | | | |
| <u>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| <u>RTC Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 11.75 | 7.55 | 4.73 | 2.39 | 3.15 | 5.06 | 4.34 | 6.79 | 2.49 | 1.72 | 3.59 | 26.50 |
| 10 Min Spin NYC (J) | 11.75 | 7.81 | 4.92 | 2.53 | 3.72 | 5.51 | 4.88 | 8.90 | 2.71 | 1.87 | 3.71 | 26.72 |
| 10 Min Spin SENEY (GHI) | 11.75 | 7.55 | 4.73 | 2.39 | 3.15 | 5.06 | 4.34 | 6.79 | 2.49 | 1.72 | 3.59 | 26.50 |
| 10 Min Spin East (F) | 11.68 | 7.55 | 4.71 | 2.36 | 2.98 | 4.03 | 4.03 | 5.27 | 2.29 | 1.72 | 3.28 | 23.41 |
| 10 Min Spin West (ABCDE) | 7.59 | 5.49 | 1.27 | 1.03 | 1.75 | 2.47 | 1.58 | 3.05 | 0.99 | 0.40 | 1.06 | 14.59 |
| 10 Min Non Synch Long Island (K) | 3.67 | 0.69 | 2.97 | 0.37 | 1.47 | 2.88 | 3.19 | 4.89 | 0.92 | 0.07 | 0.66 | 17.08 |
| 10 Min Non Synch NYC (J) | 3.67 | 0.95 | 3.16 | 0.51 | 2.04 | 3.34 | 3.73 | 7.00 | 1.13 | 0.21 | 0.78 | 17.31 |
| 10 Min Non Synch SENEY (GHI) | 3.67 | 0.69 | 2.97 | 0.37 | 1.47 | 2.88 | 3.19 | 4.89 | 0.92 | 0.07 | 0.66 | 17.08 |
| 10 Min Non Synch East (F) | 3.60 | 0.69 | 2.96 | 0.33 | 1.31 | 1.86 | 2.88 | 3.37 | 0.72 | 0.07 | 0.35 | 13.99 |
| 10 Min Non Synch West (ABCDE) | 1.79 | 0.24 | 0.29 | 0.30 | 1.00 | 1.58 | 1.33 | 2.13 | 0.28 | 0.02 | 0.10 | 8.81 |
| 30 Min Long Island (K) | 1.55 | 0.24 | 0.31 | 0.34 | 1.17 | 2.61 | 1.77 | 3.65 | 0.47 | 0.02 | 0.41 | 10.93 |
| 30 Min NYC (J) | 1.55 | 0.24 | 0.31 | 0.34 | 1.34 | 2.74 | 1.85 | 4.43 | 0.52 | 0.02 | 0.41 | 11.11 |
| 30 Min SENEY (GHI) | 1.55 | 0.24 | 0.31 | 0.34 | 1.17 | 2.61 | 1.77 | 3.65 | 0.47 | 0.02 | 0.41 | 10.93 |
| 30 Min East (F) | 1.48 | 0.24 | 0.29 | 0.30 | 1.00 | 1.58 | 1.46 | 2.13 | 0.28 | 0.02 | 0.10 | 7.84 |
| 30 Min West (ABCDE) | 1.48 | 0.24 | 0.29 | 0.30 | 1.00 | 1.58 | 1.33 | 2.13 | 0.28 | 0.02 | 0.10 | 7.80 |
| Regulation | 31.59 | 17.95 | 12.23 | 7.77 | 8.36 | 14.11 | 7.96 | 9.46 | 12.79 | 8.03 | 9.52 | 25.14 |
| NYCA Regulation Movement | 0.16 | 0.17 | 0.14 | 0.10 | 0.13 | 0.20 | 0.18 | 0.23 | 0.22 | 0.16 | 0.16 | 0.19 |

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

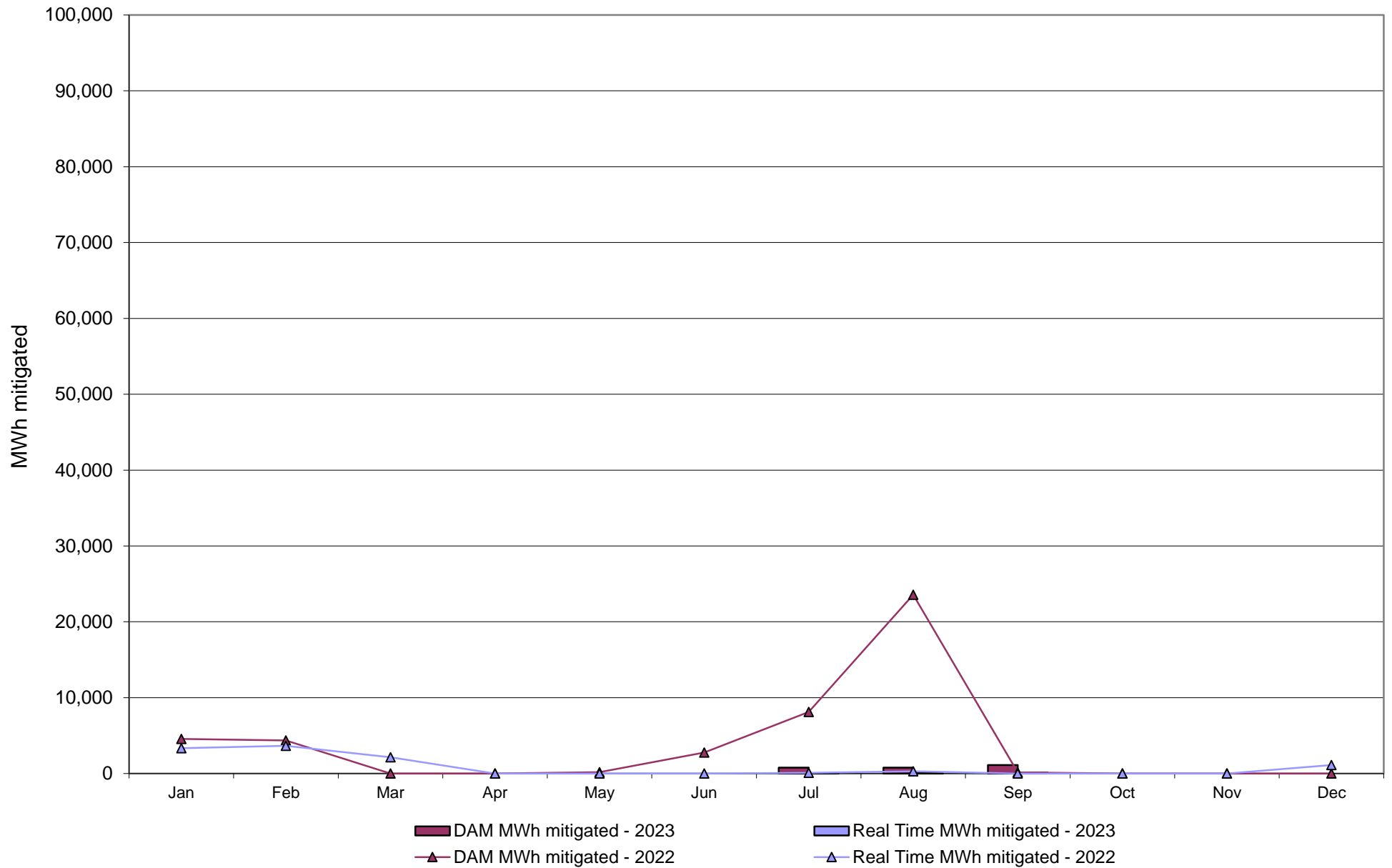
| <u>2023</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>Real Time Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 4.22 | 4.51 | 3.28 | 3.42 | 1.48 | 2.02 | 2.18 | 2.60 | | | | |
| 10 Min Spin NYC (J) | 4.30 | 4.53 | 3.28 | 3.72 | 1.61 | 2.89 | 4.30 | 3.58 | | | | |
| 10 Min Spin SENEY (GHI) | 4.22 | 4.51 | 3.28 | 3.42 | 1.48 | 2.02 | 2.18 | 2.60 | | | | |
| 10 Min Spin East (F) | 4.20 | 4.46 | 3.19 | 3.23 | 1.37 | 1.38 | 1.56 | 1.67 | | | | |
| 10 Min Spin West (ABCDE) | 3.10 | 2.24 | 0.97 | 0.89 | 0.36 | 0.38 | 1.26 | 1.24 | | | | |
| 10 Min Non Synch Long Island (K) | 1.81 | 0.50 | 0.15 | 0.89 | 0.29 | 1.07 | 1.83 | 1.07 | | | | |
| 10 Min Non Synch NYC (J) | 1.89 | 0.52 | 0.15 | 1.19 | 0.43 | 1.94 | 3.95 | 2.05 | | | | |
| 10 Min Non Synch SENEY (GHI) | 1.81 | 0.50 | 0.15 | 0.89 | 0.29 | 1.07 | 1.83 | 1.07 | | | | |
| 10 Min Non Synch East (F) | 1.79 | 0.45 | 0.05 | 0.70 | 0.19 | 0.43 | 1.21 | 0.14 | | | | |
| 10 Min Non Synch West (ABCDE) | 1.15 | 0.01 | 0.00 | 0.21 | 0.05 | 0.14 | 1.02 | 0.07 | | | | |
| 30 Min Long Island (K) | 0.39 | 0.05 | 0.09 | 0.40 | 0.16 | 0.77 | 1.64 | 1.00 | | | | |
| 30 Min NYC (J) | 0.39 | 0.05 | 0.09 | 0.47 | 0.16 | 0.77 | 2.28 | 1.00 | | | | |
| 30 Min SENEY (GHI) | 0.39 | 0.05 | 0.09 | 0.40 | 0.16 | 0.77 | 1.64 | 1.00 | | | | |
| 30 Min East (F) | 0.36 | 0.01 | 0.00 | 0.21 | 0.05 | 0.14 | 1.02 | 0.07 | | | | |
| 30 Min West (ABCDE) | 0.36 | 0.01 | 0.00 | 0.21 | 0.05 | 0.14 | 1.02 | 0.07 | | | | |
| Regulation | 8.46 | 12.64 | 9.44 | 8.10 | 5.52 | 6.30 | 6.30 | 6.62 | | | | |
| NYCA Regulation Movement | 0.12 | 0.14 | 0.12 | 0.16 | 0.14 | 0.10 | 0.09 | 0.10 | | | | |
| <u>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| <u>Real Time Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 17.99 | 9.02 | 6.90 | 3.15 | 2.68 | 4.93 | 6.01 | 10.69 | 3.49 | 3.23 | 7.82 | 36.64 |
| 10 Min Spin NYC (J) | 18.04 | 9.27 | 7.04 | 3.27 | 3.17 | 5.46 | 6.66 | 12.88 | 3.74 | 3.41 | 8.01 | 36.89 |
| 10 Min Spin SENEY (GHI) | 17.99 | 9.02 | 6.90 | 3.15 | 2.68 | 4.93 | 6.01 | 10.69 | 3.49 | 3.23 | 7.82 | 36.64 |
| 10 Min Spin East (F) | 17.97 | 9.02 | 6.90 | 3.15 | 2.62 | 4.39 | 5.65 | 8.61 | 3.27 | 3.22 | 7.54 | 34.02 |
| 10 Min Spin West (ABCDE) | 13.47 | 7.56 | 2.14 | 1.83 | 1.76 | 3.13 | 2.70 | 5.68 | 1.84 | 1.40 | 3.02 | 22.15 |
| 10 Min Non Synch Long Island (K) | 5.34 | 0.59 | 4.05 | 0.40 | 0.43 | 2.42 | 4.26 | 6.67 | 0.81 | 0.38 | 2.63 | 23.83 |
| 10 Min Non Synch NYC (J) | 5.40 | 0.84 | 4.19 | 0.51 | 0.92 | 2.95 | 4.90 | 8.85 | 1.06 | 0.56 | 2.81 | 24.09 |
| 10 Min Non Synch SENEY (GHI) | 5.34 | 0.59 | 4.05 | 0.40 | 0.43 | 2.42 | 4.26 | 6.67 | 0.81 | 0.38 | 2.63 | 23.83 |
| 10 Min Non Synch East (F) | 5.33 | 0.59 | 4.05 | 0.40 | 0.37 | 1.88 | 3.90 | 4.58 | 0.59 | 0.37 | 2.35 | 21.21 |
| 10 Min Non Synch West (ABCDE) | 2.46 | 0.20 | 0.19 | 0.29 | 0.34 | 1.51 | 1.79 | 2.37 | 0.25 | 0.01 | 0.10 | 12.80 |
| 30 Min Long Island (K) | 1.42 | 0.20 | 0.16 | 0.29 | 0.40 | 2.05 | 2.28 | 4.29 | 0.47 | 0.01 | 0.38 | 11.54 |
| 30 Min NYC (J) | 1.42 | 0.20 | 0.16 | 0.29 | 0.56 | 2.20 | 2.41 | 5.15 | 0.52 | 0.01 | 0.38 | 11.73 |
| 30 Min SENEY (GHI) | 1.42 | 0.20 | 0.16 | 0.29 | 0.40 | 2.05 | 2.28 | 4.29 | 0.47 | 0.01 | 0.38 | 11.54 |
| 30 Min East (F) | 1.41 | 0.20 | 0.16 | 0.29 | 0.34 | 1.51 | 1.92 | 2.21 | 0.25 | 0.01 | 0.10 | 8.92 |
| 30 Min West (ABCDE) | 1.41 | 0.20 | 0.16 | 0.29 | 0.34 | 1.51 | 1.79 | 2.21 | 0.25 | 0.01 | 0.10 | 8.87 |
| Regulation | 33.92 | 18.10 | 11.81 | 8.22 | 8.23 | 11.84 | 8.95 | 11.52 | 11.36 | 8.91 | 12.84 | 28.95 |
| NYCA Regulation Movement | 0.16 | 0.17 | 0.15 | 0.10 | 0.13 | 0.20 | 0.18 | 0.23 | 0.23 | 0.16 | 0.15 | 0.19 |

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

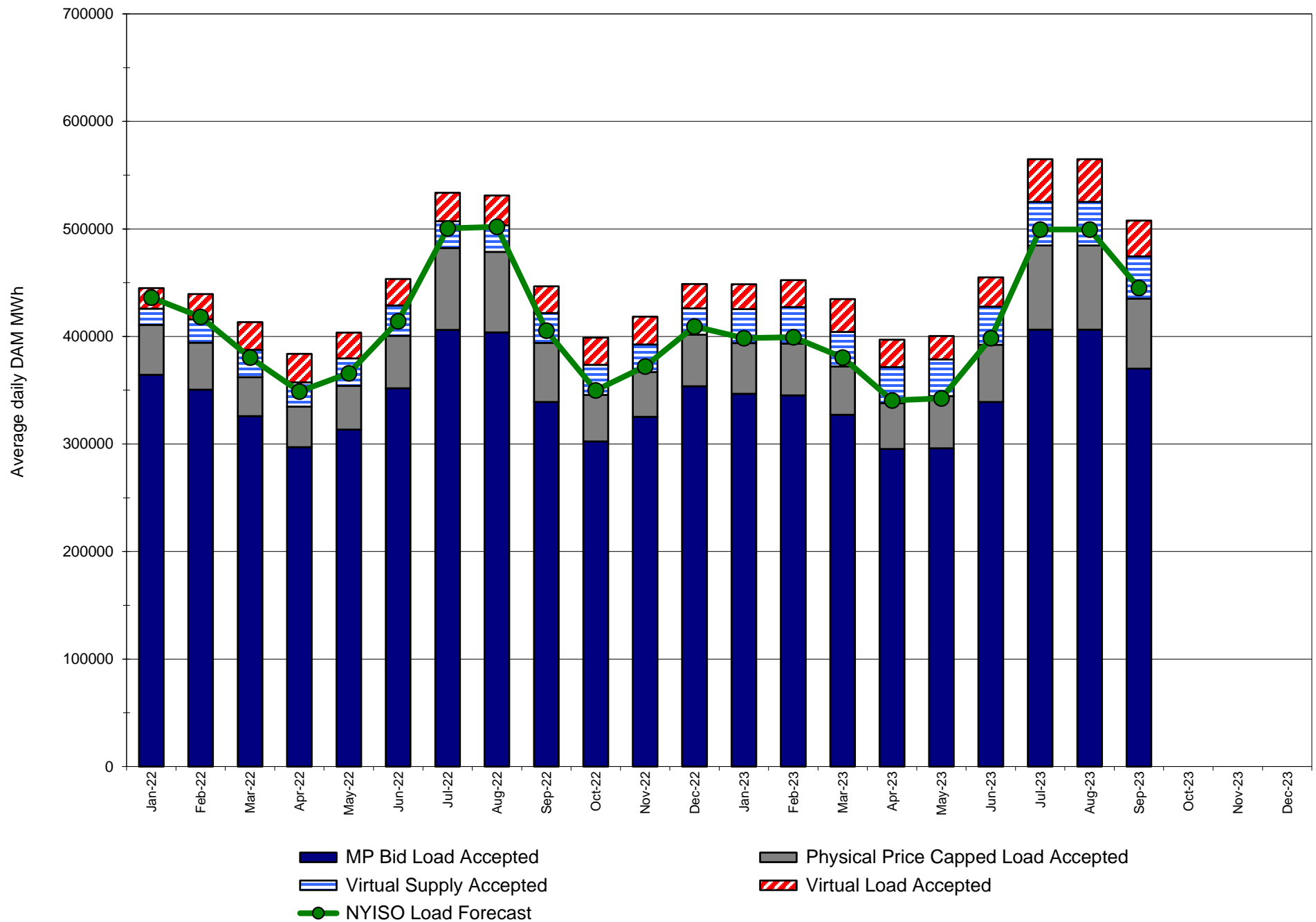
Percentage of committed unit-hours mitigated



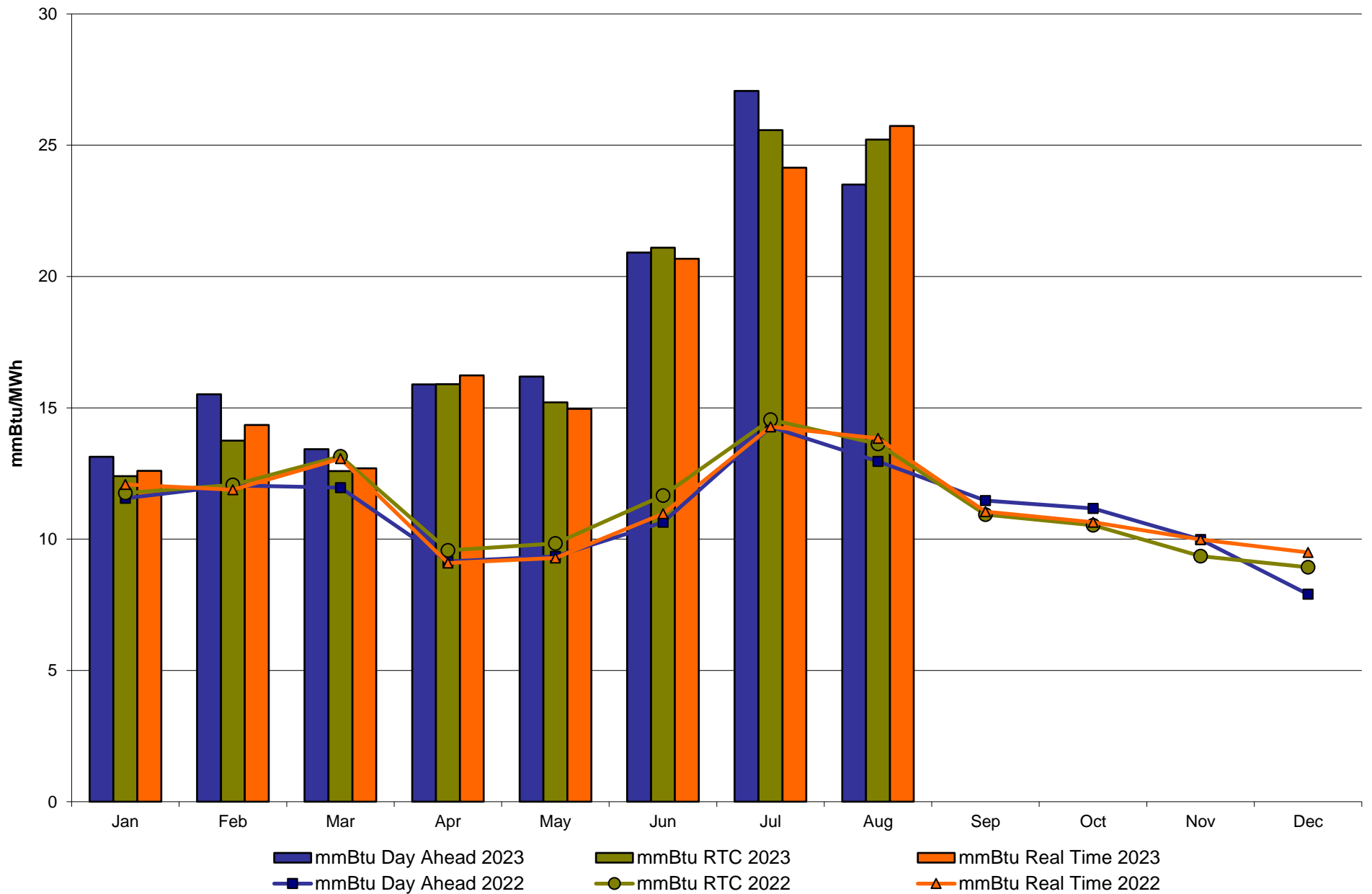
NYISO In City Energy Mitigation (NYC Zone) 2022 - 2023
Monthly megawatt hours mitigated



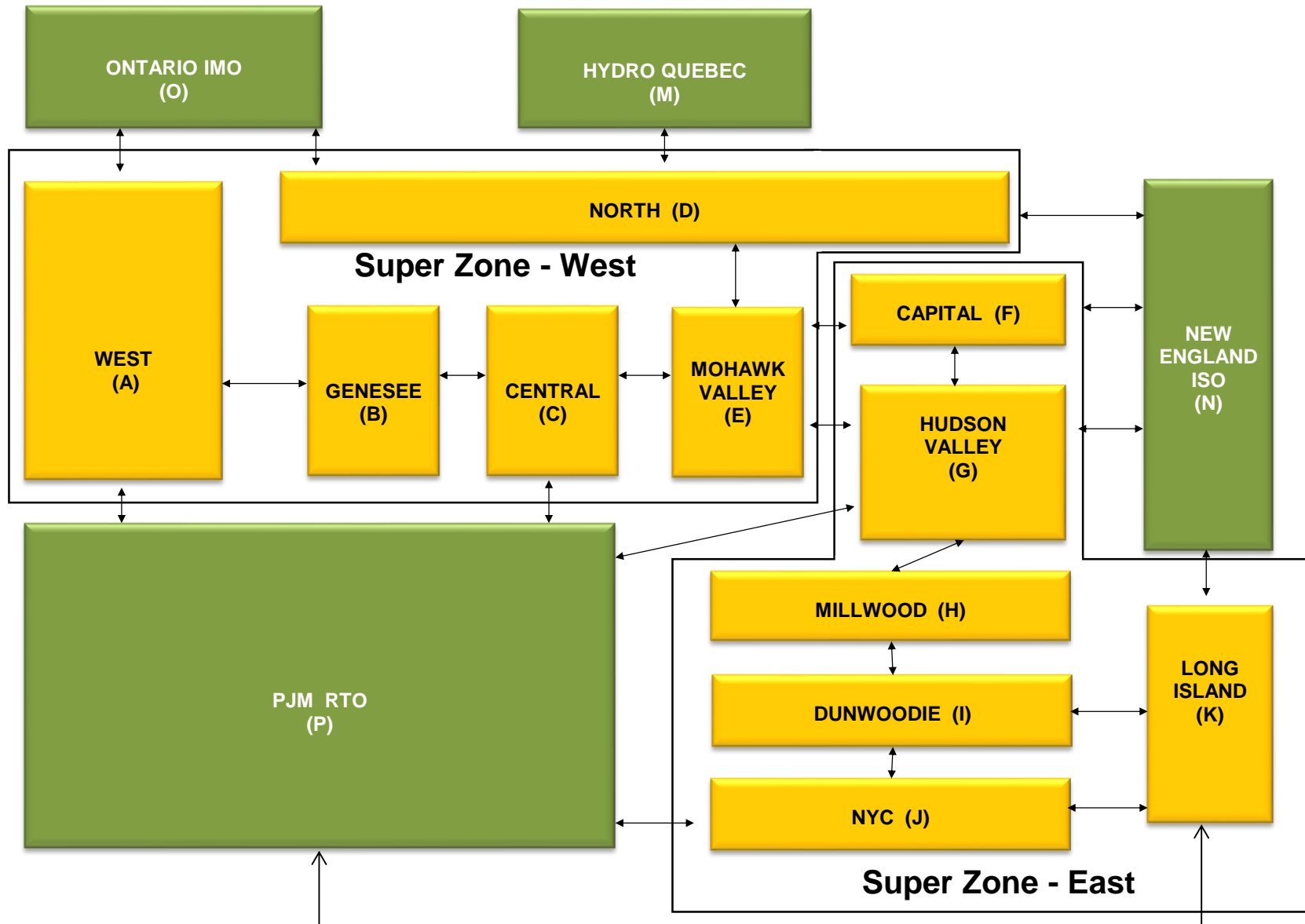
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2022-2023



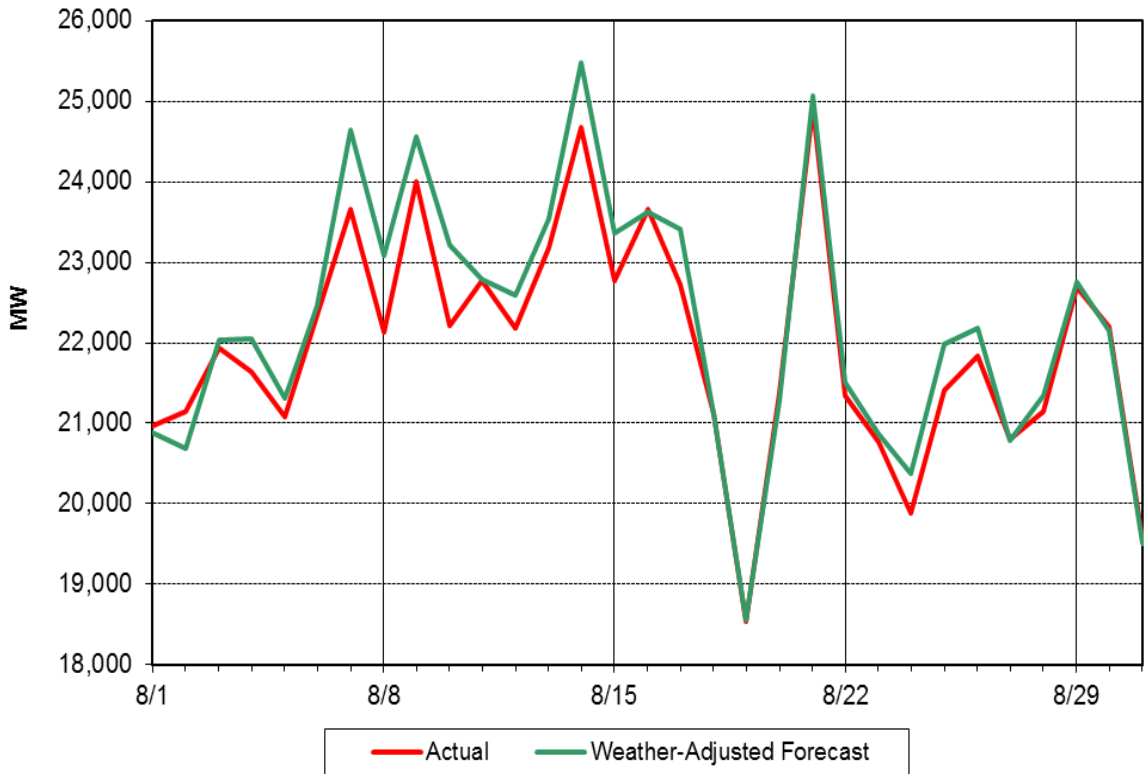
NYISO LBMP ZONES



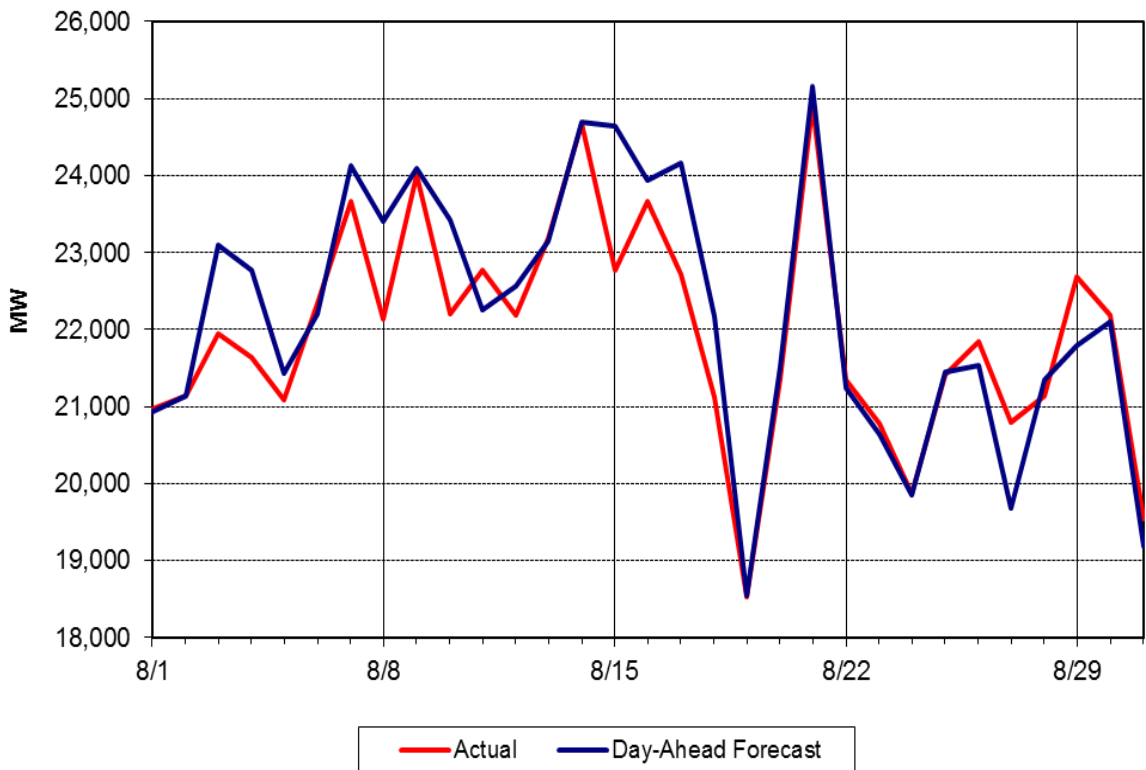
Billing Codes for Chart C

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

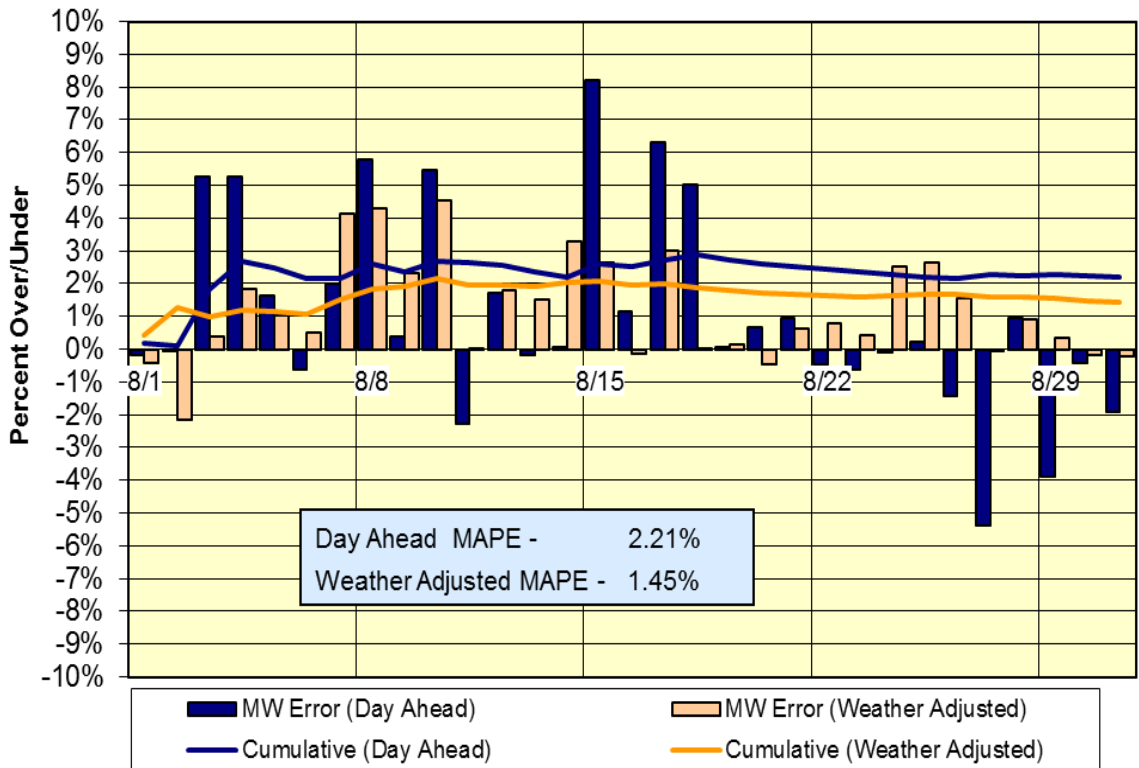
NYISO Daily Peak Load - August 2023
Actual vs. Weather-Adjusted Forecast



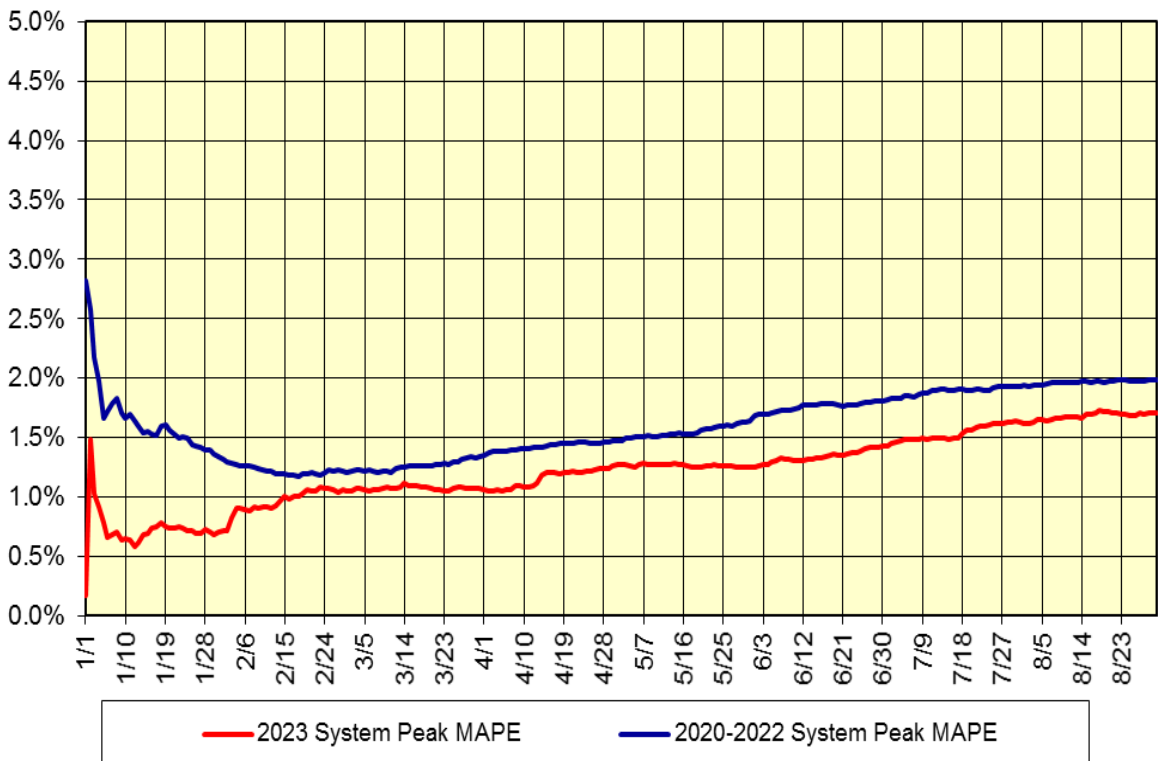
NYISO Daily Peak Load - August 2023
Actual vs. Forecast



Day Ahead Peak Forecast - August 2023 Percent Error - Actual & Weather-Adjusted



Day-Ahead Forecast Accuracy - Cumulative Performance 2023 Year-to-Date



Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – August 2023

| Filing Date | Filing Summary | Docket | Order Summary | Order Date |
|-------------|---|------------------------|---|------------|
| 7/3/2023 | NYISO Motion to Intervene and Comments regarding Bull Run Energy's request for a waiver of the requirements for the project to satisfy a regulatory milestone within six months of the NYISO's tender of the Large Generator Interconnection Agreement. | ER23-2140-000 | FERC Order granted the waiver request of Bull Run Energy, allowing for a one-year extension to meet the regulatory milestone requirement by August 9, 2024. | 8/7/2023 |
| 7/31/2023 | NYISO Motion to Intervene and Comments re: Hecate Grid Swiftsure, LLC request for a waiver of the requirements for the project to satisfy a regulatory milestone within six months of the NYISO's tender of the Large Generator Interconnection Agreement. | ER23-2455-000 | FERC Order granted the waiver request of Hecate Grid Swiftsure, allowing for a one-year extension to meet the regulatory milestone requirement by August 8, 2024. | 8/7/2023 |
| 8/2/2023 | NYISO Informational Notice to confirm that Homer Solar timely satisfied the conditions in FERC's June 8, 2023 Order and that the NYISO, National Grid, and Homer Solar fully executed a conforming Large Generator Interconnection Agreement for the Homer Solar Energy Center. | ER23-1575-000 | | |
| 8/8/2023 | Joint NYISO-New York Power Authority (NYPA) Section 205 filing of an executed Large Generator Interconnection Agreement among NYISO, NYPA, and Hecate Energy Cider Solar for the Cider Solar Project (SA 2773). | ER23-2583-000 | | |
| 8/14/2023 | NYISO Informational Filing regarding interconnection study metrics for the second quarter of 2023, consistent with the requirements of Order Nos. 845 and 845-A. | ER19-1949-000 | | |
| 8/16/2023 | NYISO Comments to the New York Public Service Commission regarding identifying and defining zero-emissions, dispatchable resources. | PSC Case No. 15-E-0302 | | |
| 8/17/2023 | NYISO Deficiency Response to the Commission's July 18, 2023 Notice of Deficiency regarding the NYISO's June 1, 2023 Section 205 filing of proposed tariff revisions concerning the participation of Distributed Energy Resources (DER) and Aggregations. | ER23-2040-001 | | |
| 8/22/2023 | Joint NYISO-New York State Electric & Gas Corporation (NYSEG) Section 205 filing of an executed Second Amended and Restated Large Generator Interconnection Agreement among NYISO, NYSEG, and Baron Winds LLC for the Baron Winds Project (SA 2487). | ER23-2680-000 | | |

| Filing Date | Filing Summary | Docket | Order Summary | Order Date |
|--------------------|--|------------------------|----------------------|-------------------|
| 8/24/2023 | NYISO Motion to Intervene and Comments regarding Oxbow Hill Solar's request for waiver of the requirements for the Project to satisfy a regulatory milestone within six months of the NYISO's tender of the Large Generator Interconnection Agreement. | ER23-2559-000 | | |
| 8/25/2023 | NYISO Comments regarding the Alliance for Clean Energy- New York's petition to the NY PSC for a Tier 1 REC inflation adjustment mechanism. | PSC Case No. 15-E-0302 | | |
| 8/29/2023 | NYISO submission of FERC Form 3Q. | FERC Form 3Q | | |
| 8/29/2023 | NYISO Request for Rehearing and Clarification regarding FERC Order No. 2023. | RM22-14-000 | | |