

Monthly Report

A Report by the
New York Independent System Operator

May 2022

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May 2022 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 June 8, 2022.

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May 2022 Operations Performance Highlights

- Peak load of 27,046 MW occurred on 5/31/2022 HB 17
- All-time summer capability period peak load of 33,956 MW occurred on 07/19/2013 HB 16
- 13.7 hours of Thunderstorm Alerts were declared
- 40.2 hours of NERC TLR level 3 curtailment
- To reduce risks from COVID-19, the NYISO continues to take several actions to maintain critical business operations and protect the health and well-being of our employees and stakeholders.
- The major portions of the Western NY Public Policy project were placed in service May 26th, including Dysinger-East Stolle Rd 345kV (#DES1) and PAR, and East Stolle Rd-Five Mile Rd 345kV (#29).
- Construction and commissioning delays have resulted in the new Gordon Rd 345kV substation not being available for service for summer 2022. The Edic-New Scotland 345kV (#14) was restored to service on May 27th for the summer period.

The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

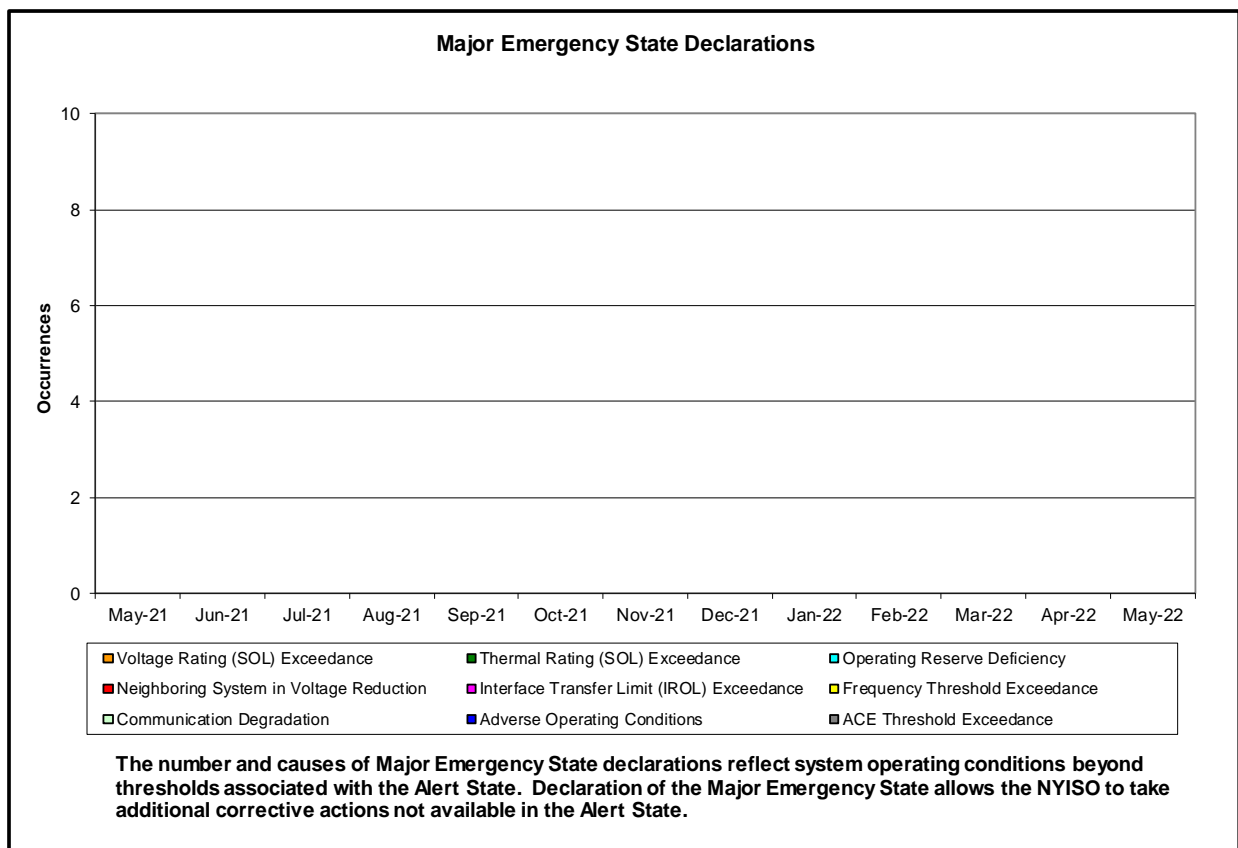
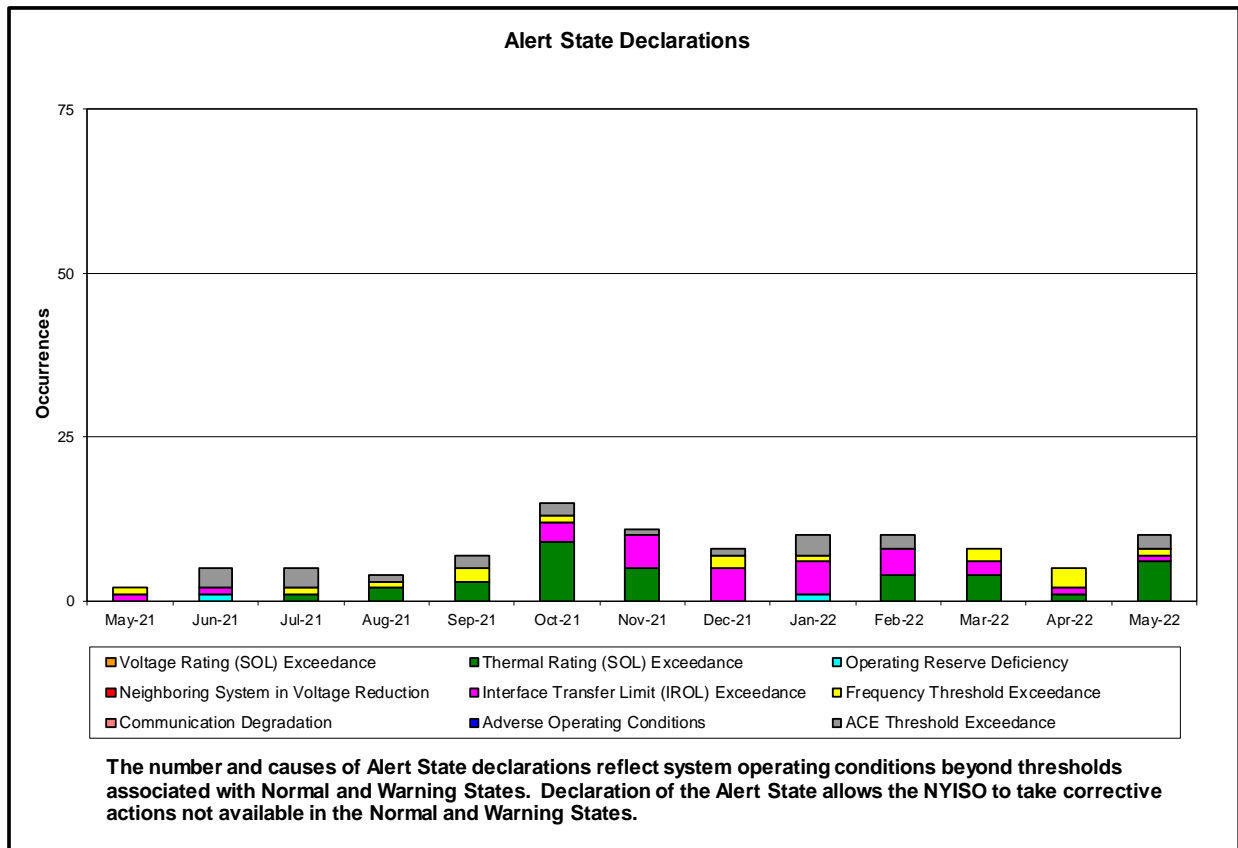
| | Current Month Value (\$M) | Year-to-Date Value (\$M) |
|--|---------------------------|--------------------------|
| NY Savings from PJM-NY Congestion Coordination | \$7.68 | \$20.36 |
| NY Savings from PJM-NY Coordinated Transaction Scheduling | (\$0.23) | (\$1.14) |
| NY Savings from NE-NY Coordinated Transaction Scheduling | \$0.96 | \$2.69 |
| Total NY Savings | \$8.41 | \$21.91 |
| | | |
| Regional Savings from PJM-NY Coordinated Transaction Scheduling | \$0.48 | \$2.98 |
| Regional Savings from NE-NY Coordinated Transaction Scheduling | \$0.16 | \$1.92 |
| Total Regional Savings | \$0.64 | \$4.90 |

- Statewide uplift cost monthly average was (\$0.65)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

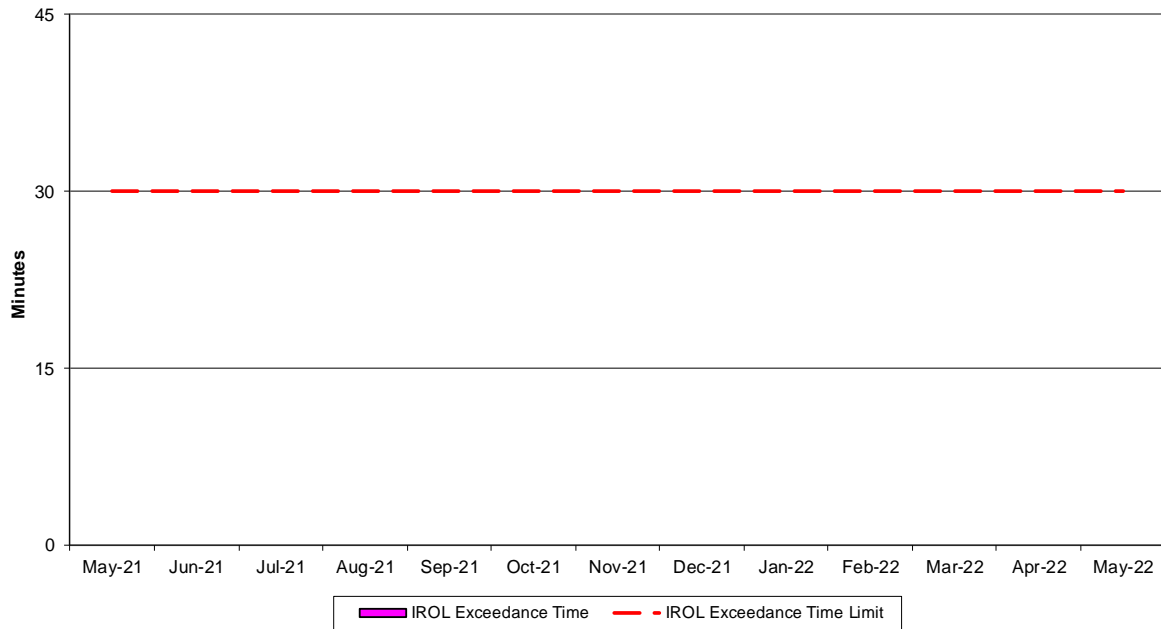
| Spot Auction Price Results | NYCA | Lower Hudson Valley Zones | New York City Zone | Long Island Zone |
|----------------------------|--------|---------------------------|--------------------|------------------|
| June 2022 Spot Price | \$3.33 | \$3.33 | \$3.51 | \$6.74 |
| May 2022 Spot Price | \$2.72 | \$3.46 | \$3.70 | \$5.93 |
| Delta | \$0.61 | (\$0.13) | (\$0.19) | \$0.81 |

- The increase in NYCA clearing price was due to a decrease in net Imports. The decreases in clearing prices for Lower Hudson Valley(\$3.33) and New York City(\$3.51) were due to decreases in unoffered MWs. The Long Island clearing price increase is attributed to an increase in unoffered MWs.

Reliability Performance Metrics

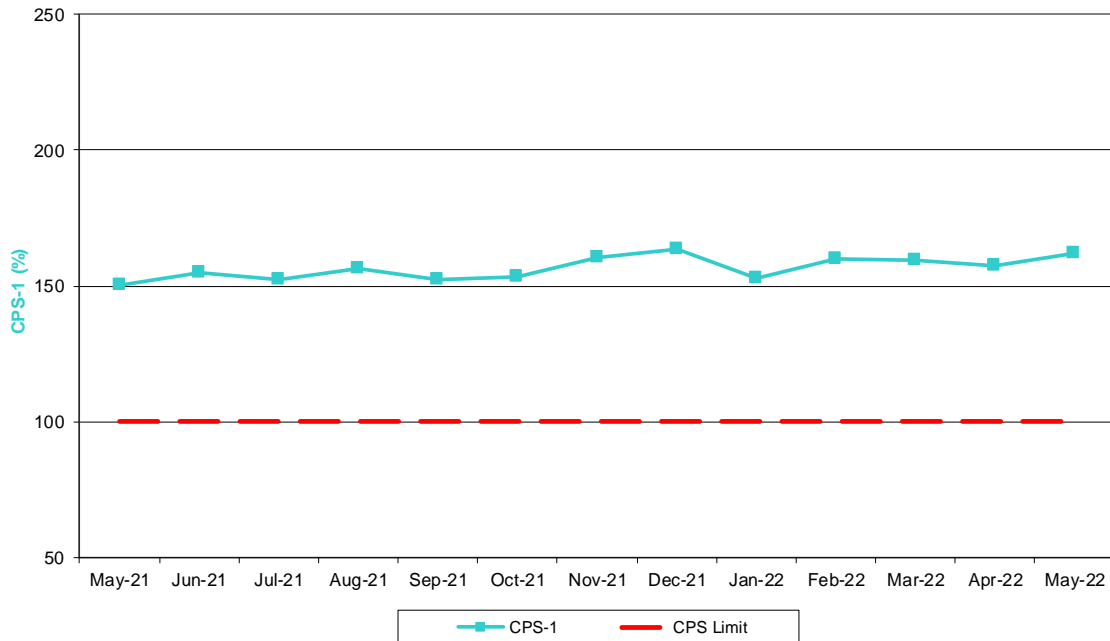


NERC IROL Time Over Limit



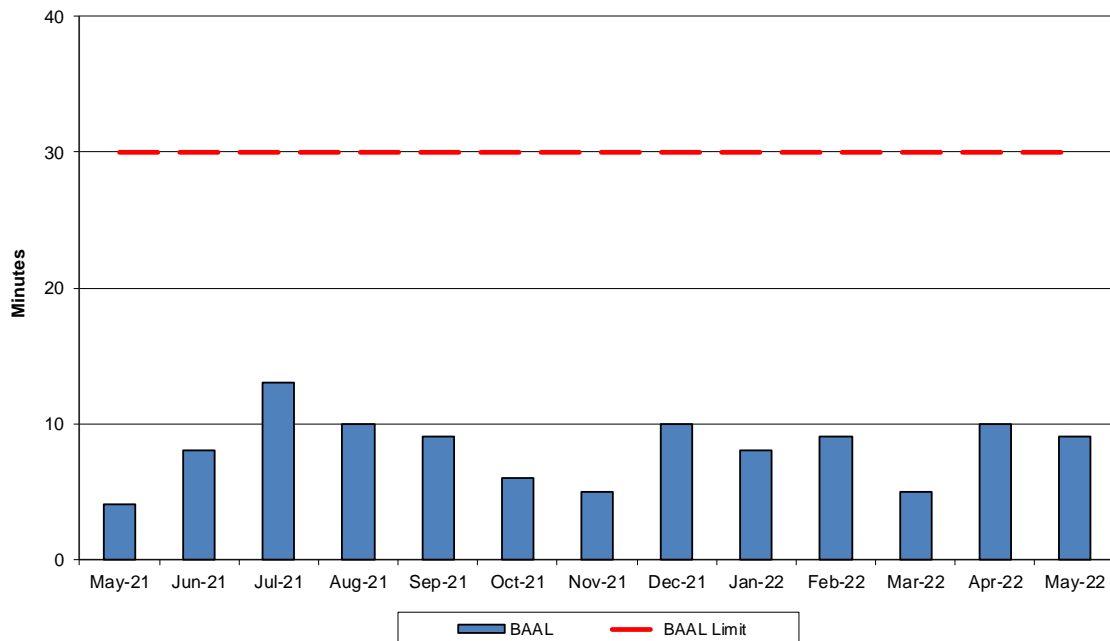
For IROL exceedances leading to Major Emergency State declarations, the maximum IROL exceedance time is identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

NERC Control Performance Standards



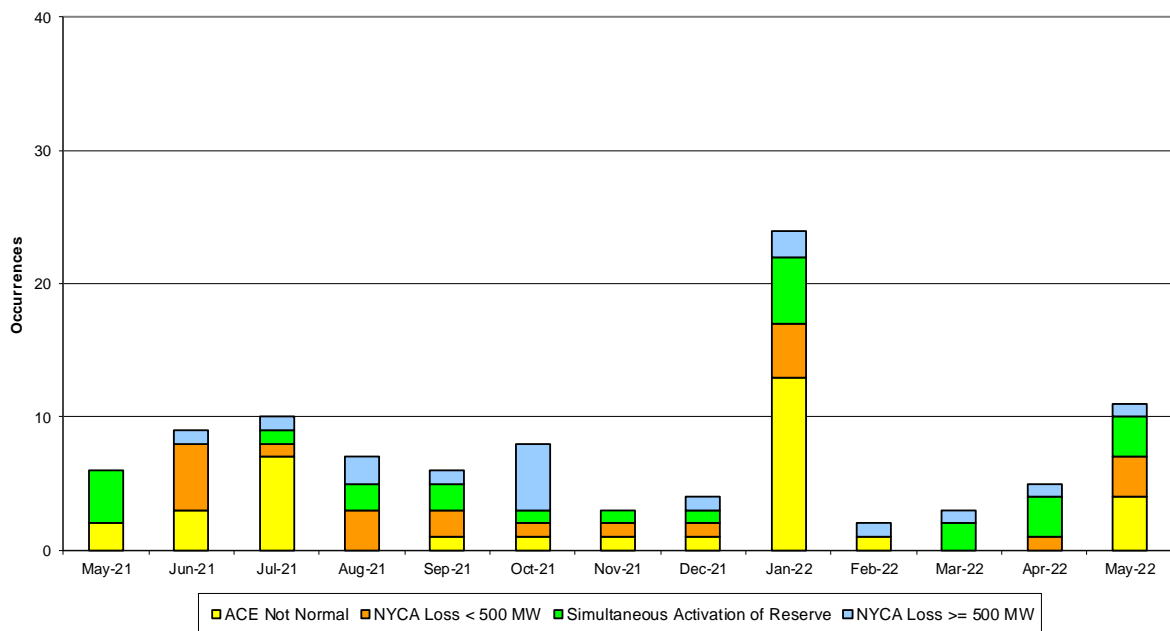
The value of NERC Control Performance Standards (CPS-1) is an indicator of the NYISO Area resource and demand balancing. Values exceeding the identified threshold are NERC compliant.

NERC Balancing Authority ACE Limit Standard



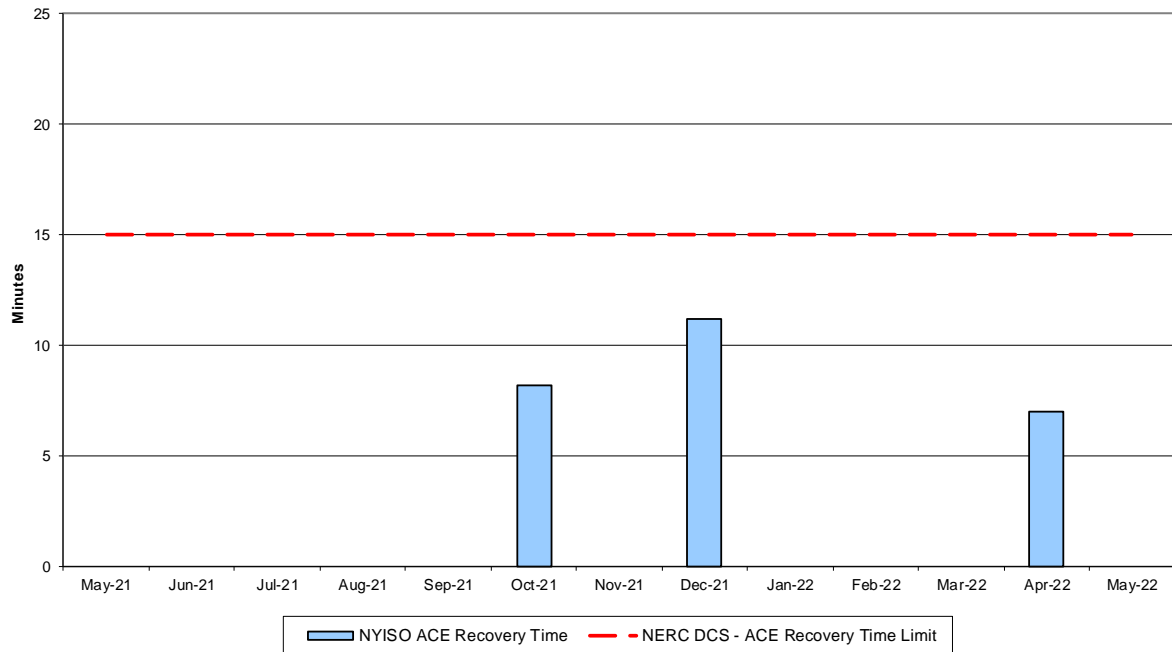
The amount of time the clock-minute average ACE exceeds the clock-minute Balancing Authority ACE Limit (BAAL) is an indicator of the NYISO Area resource and demand balancing. The maximum BAAL exceedance time is identified. BAAL exceedances of less than 30 consecutive clock-minutes are NERC compliant.

Reserve Activations



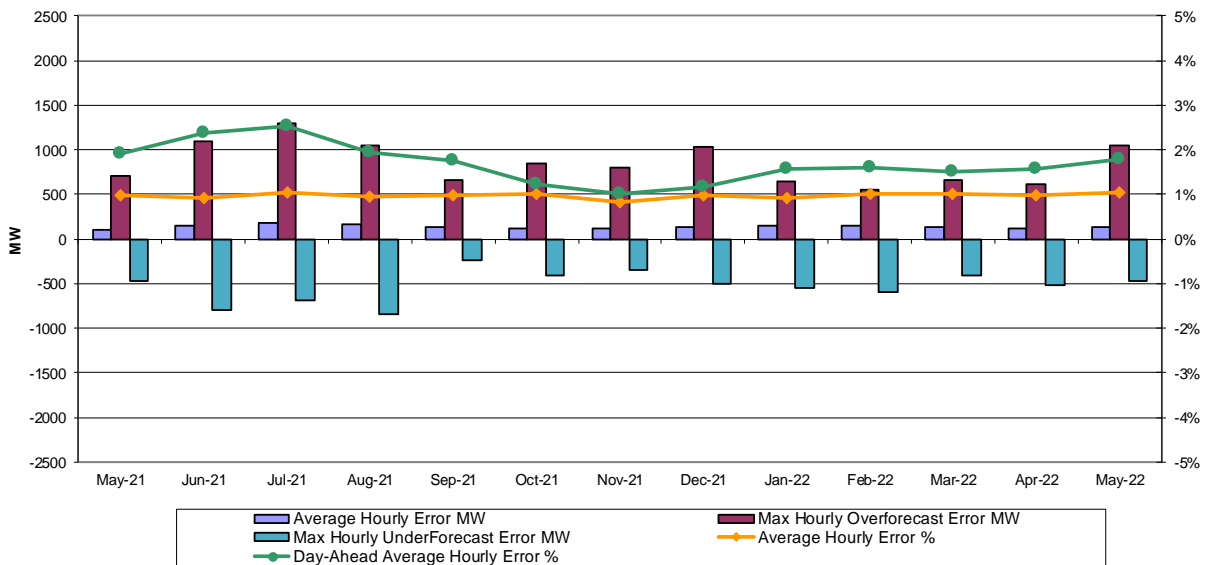
NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Simultaneous Activation of Reserves) by activating an immediate resource and demand balancing operation.

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

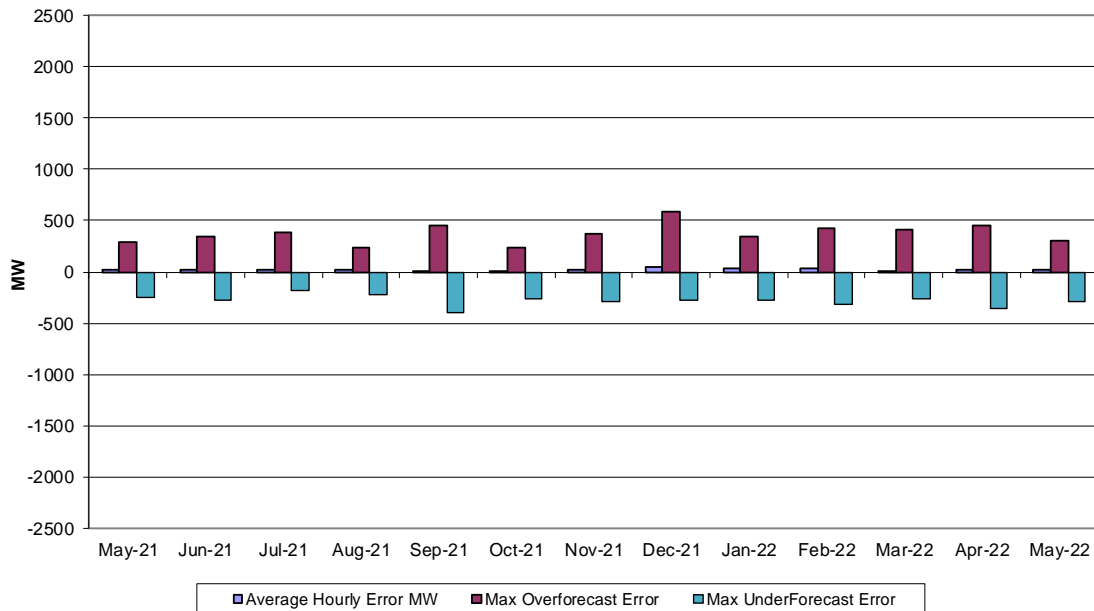


Hourly Error MW - Value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

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

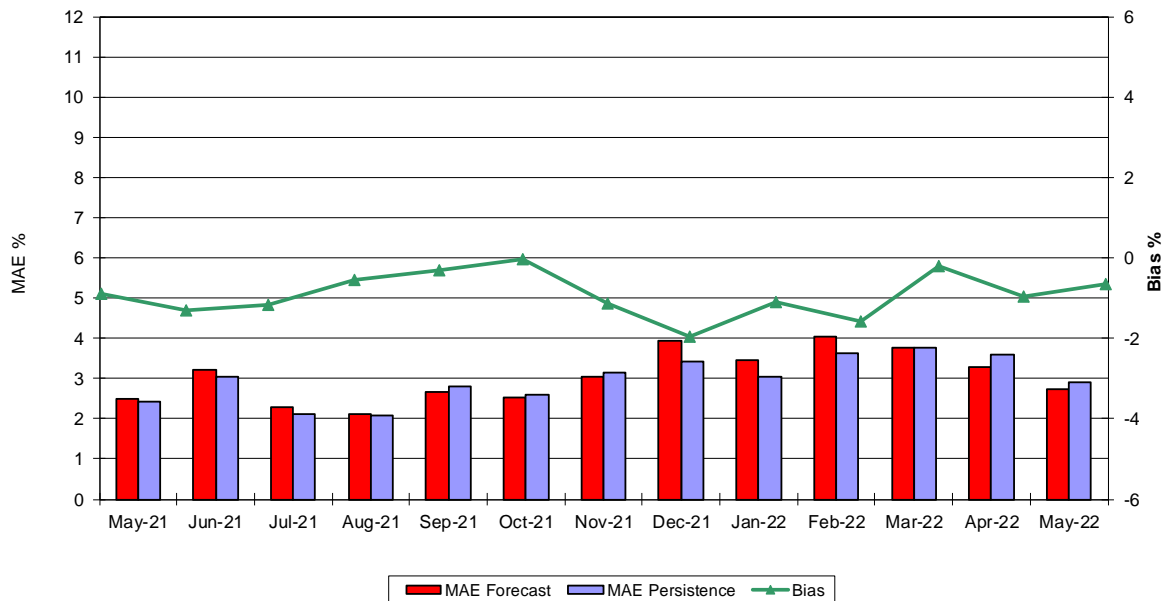
Day-Ahead Average Hourly Error % - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

Wind Forecast Performance Hour Ahead MW Error

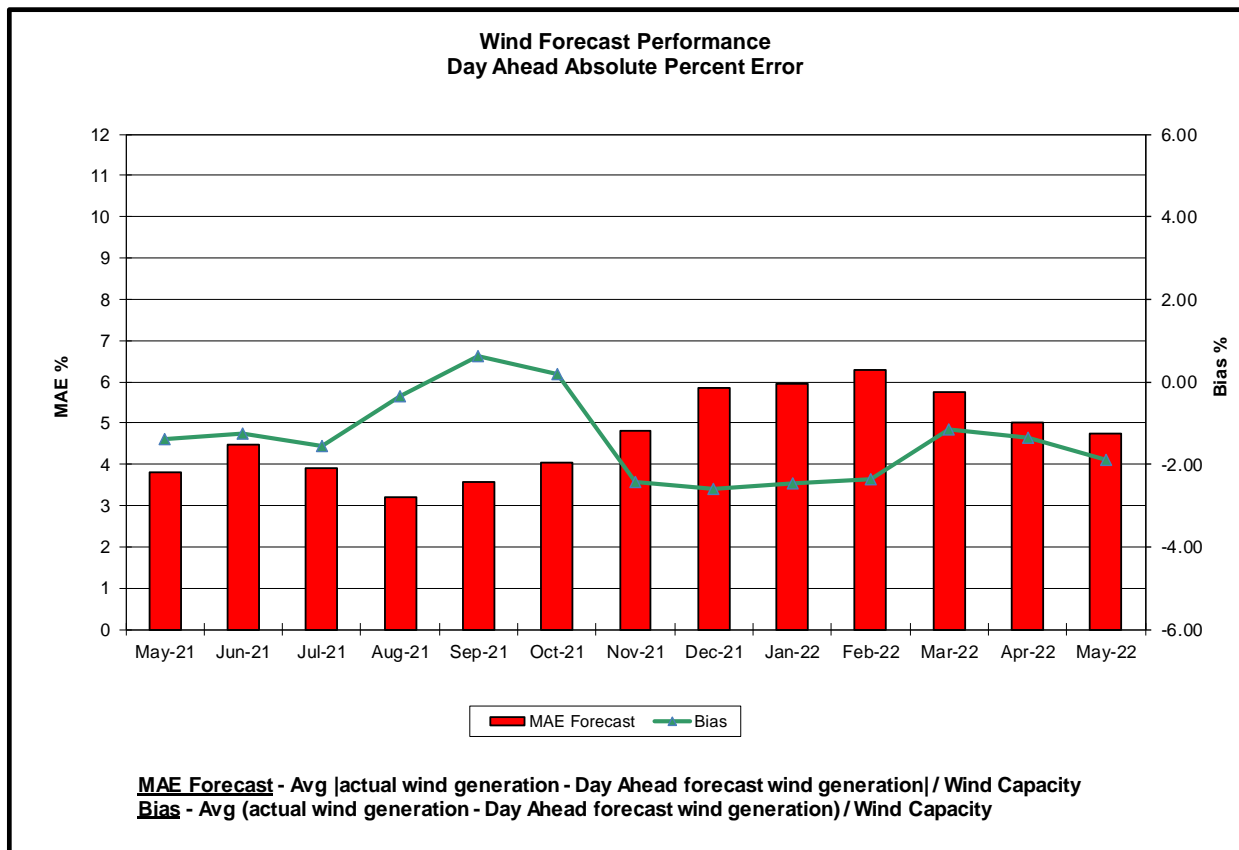
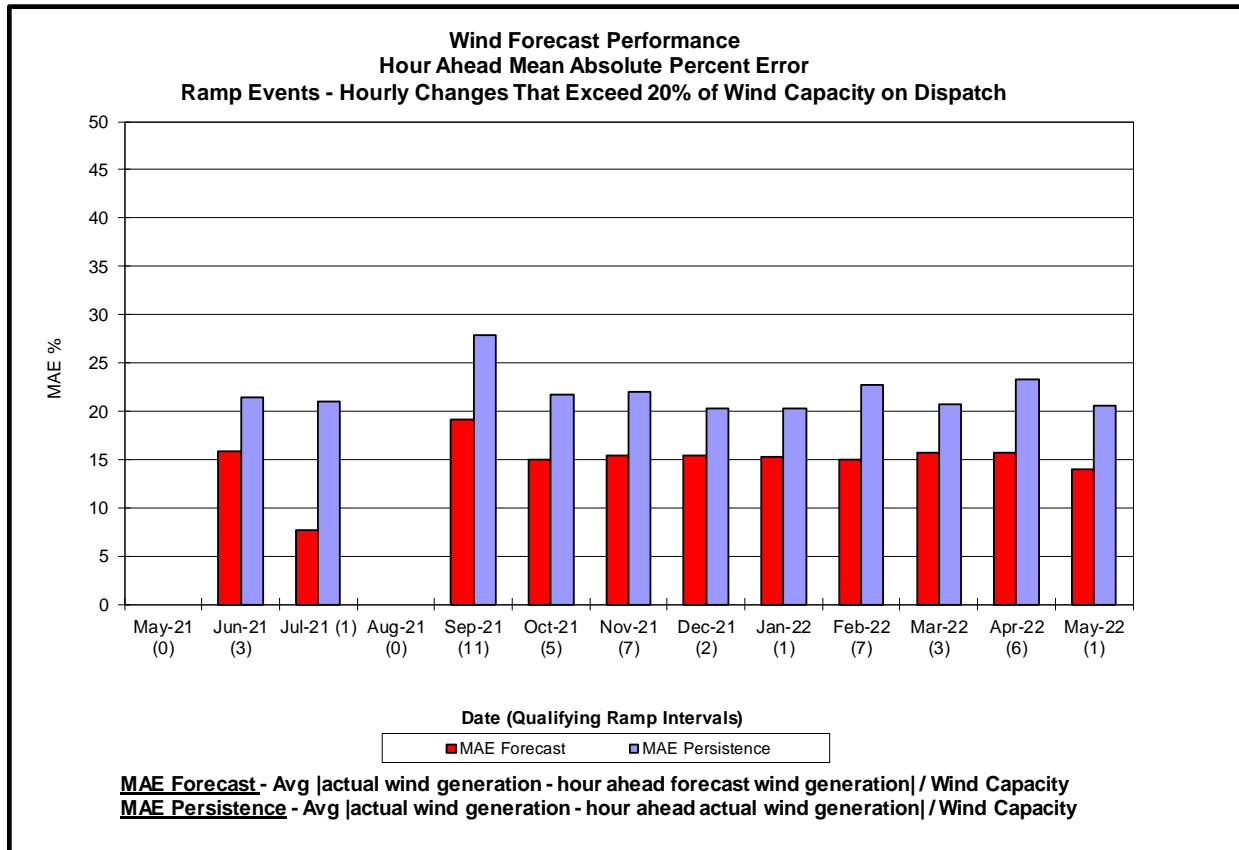


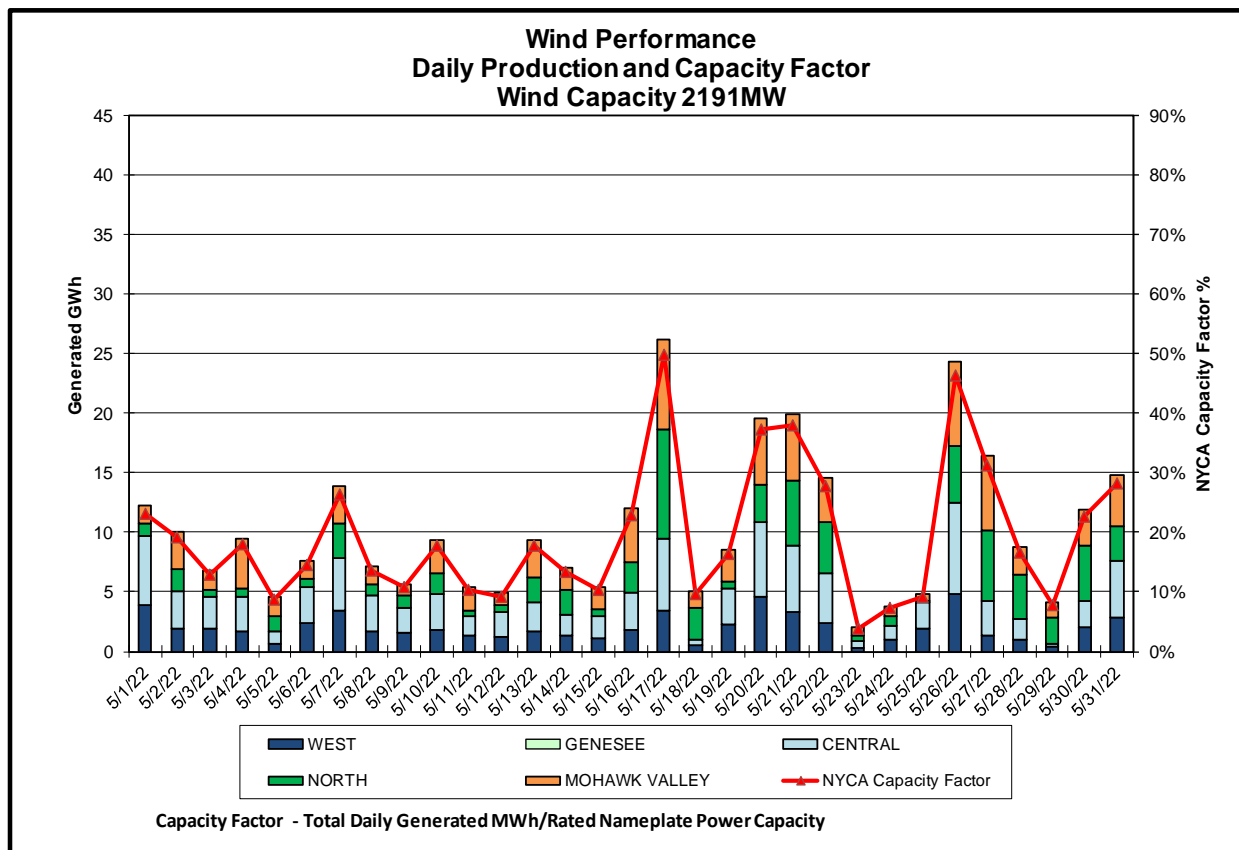
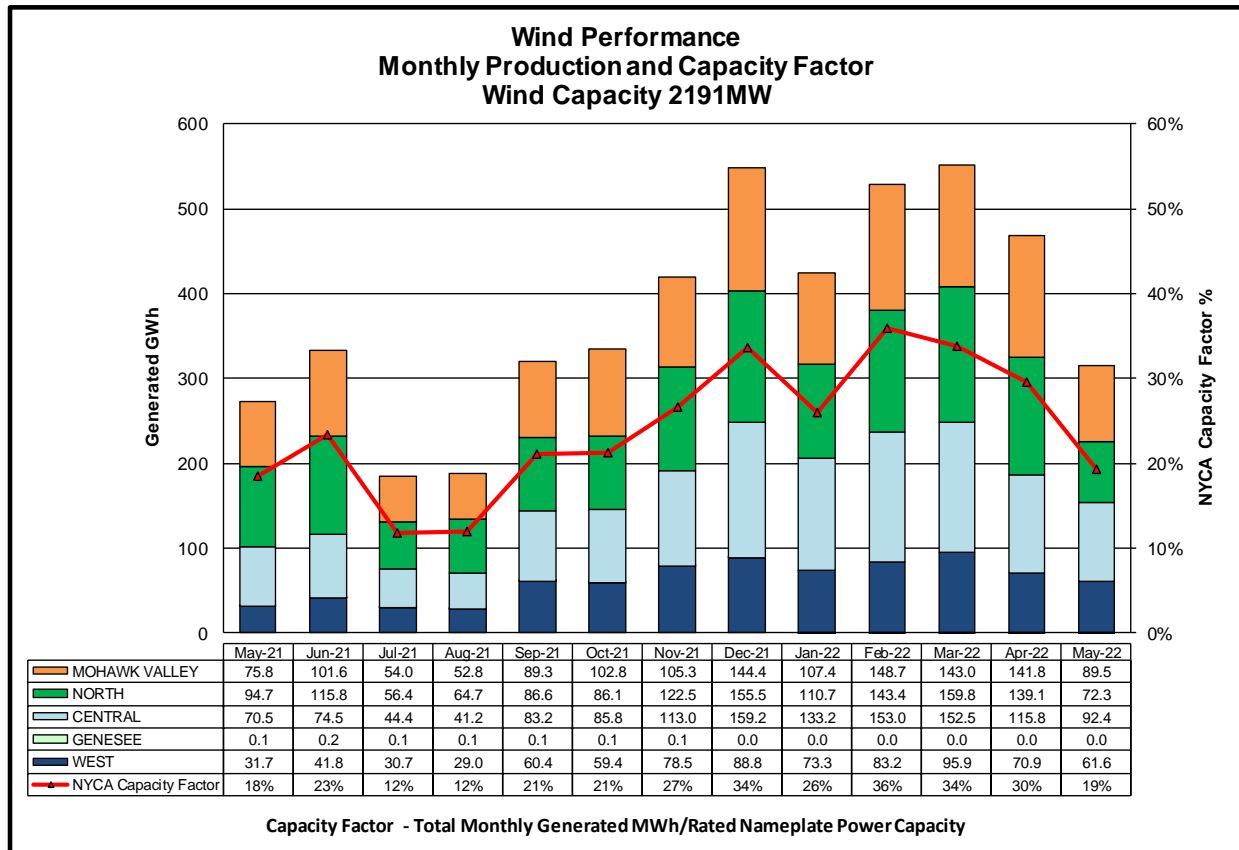
Hourly Error MW - Value of the difference between the hourly average actual wind generation and the average hour ahead forecast wind generation.

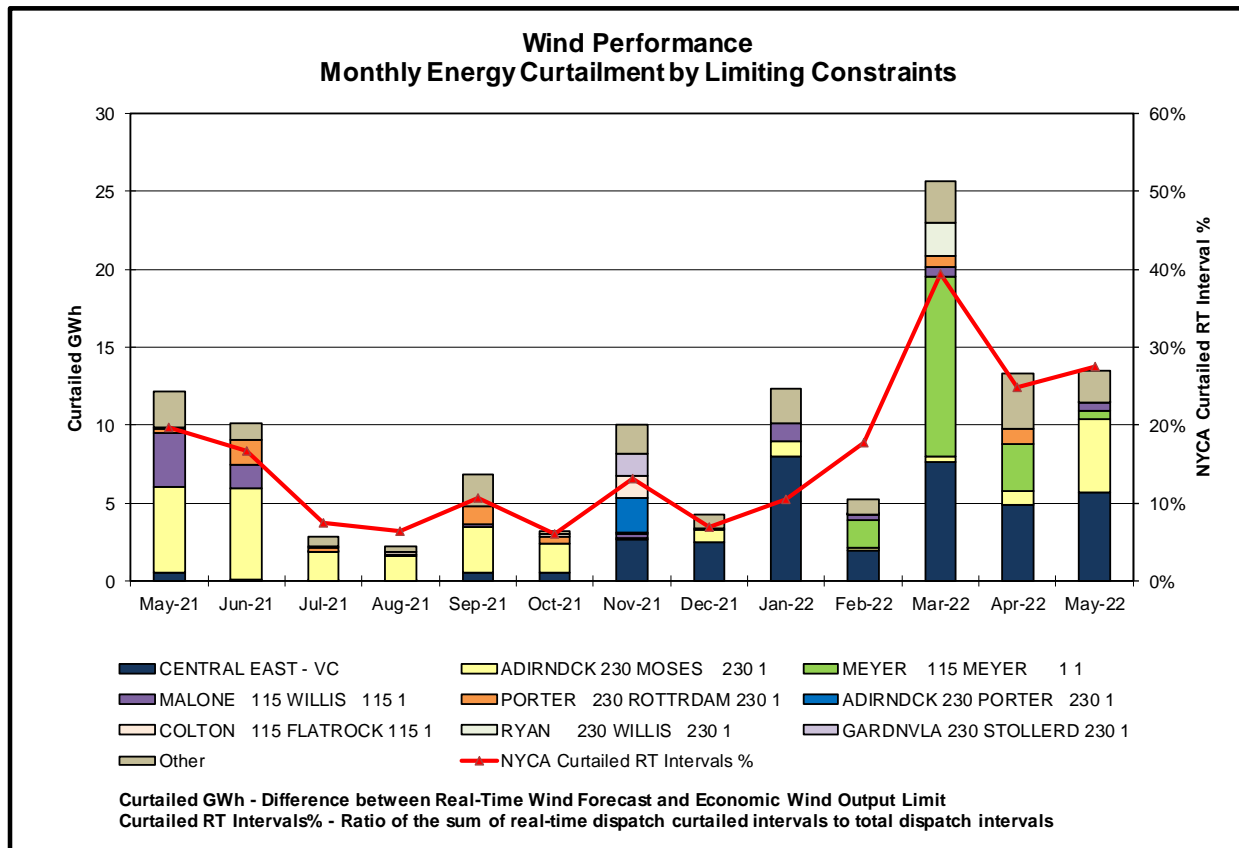
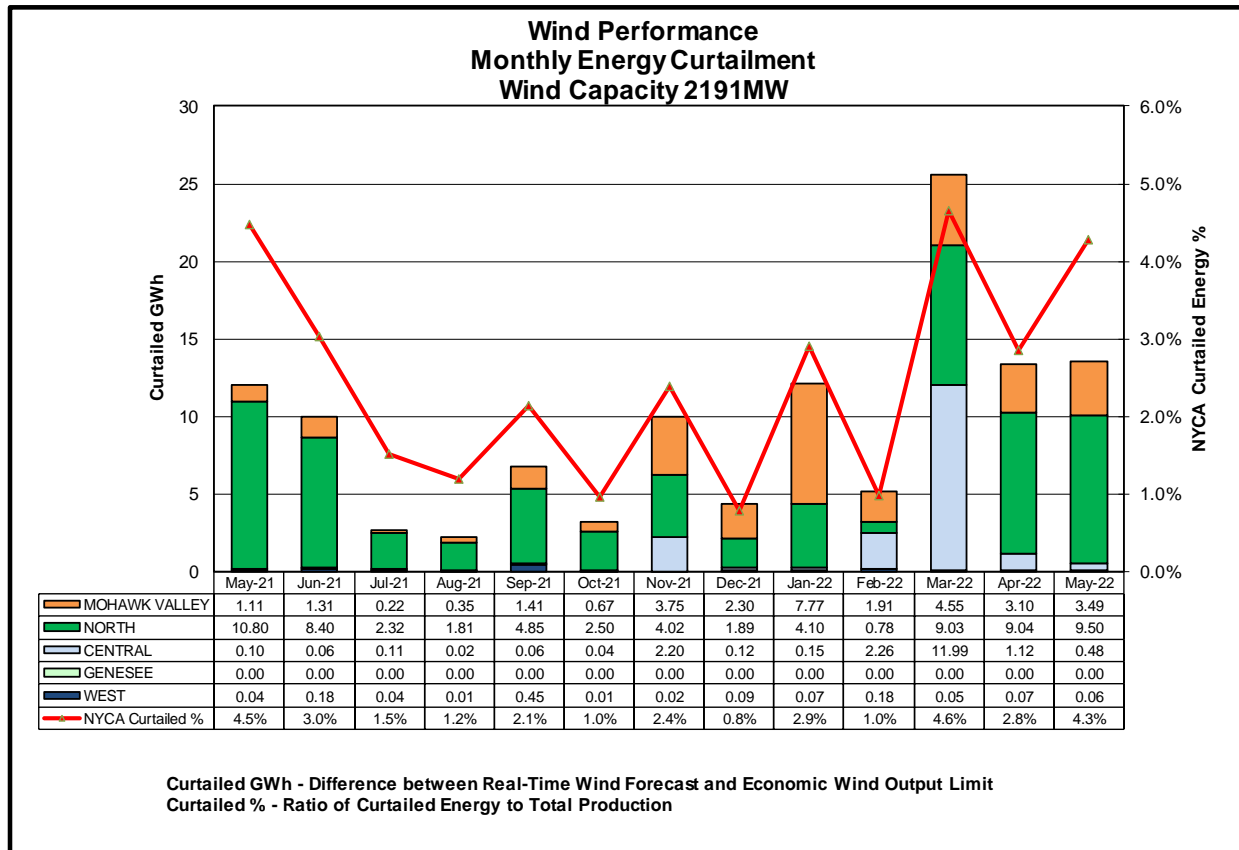
Wind Forecast Performance Hour Ahead Percent Error

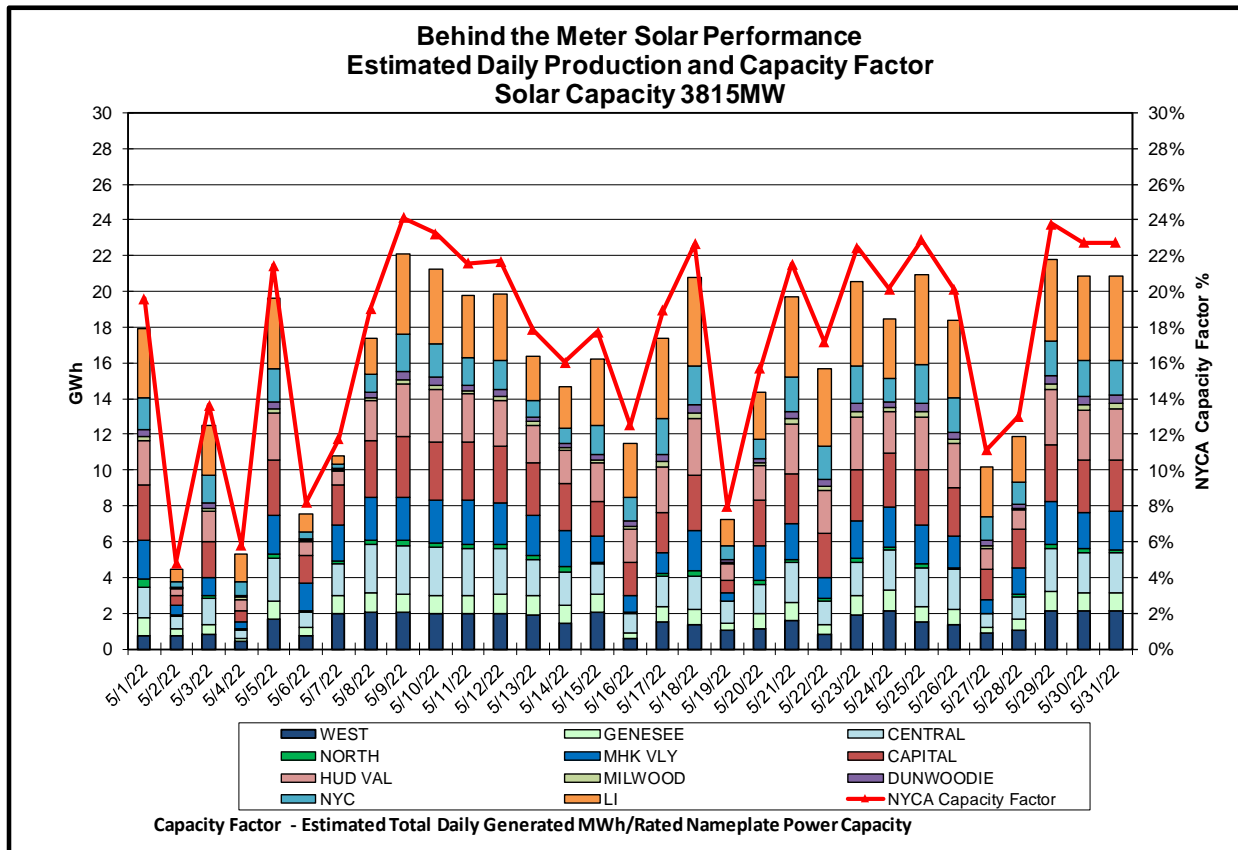
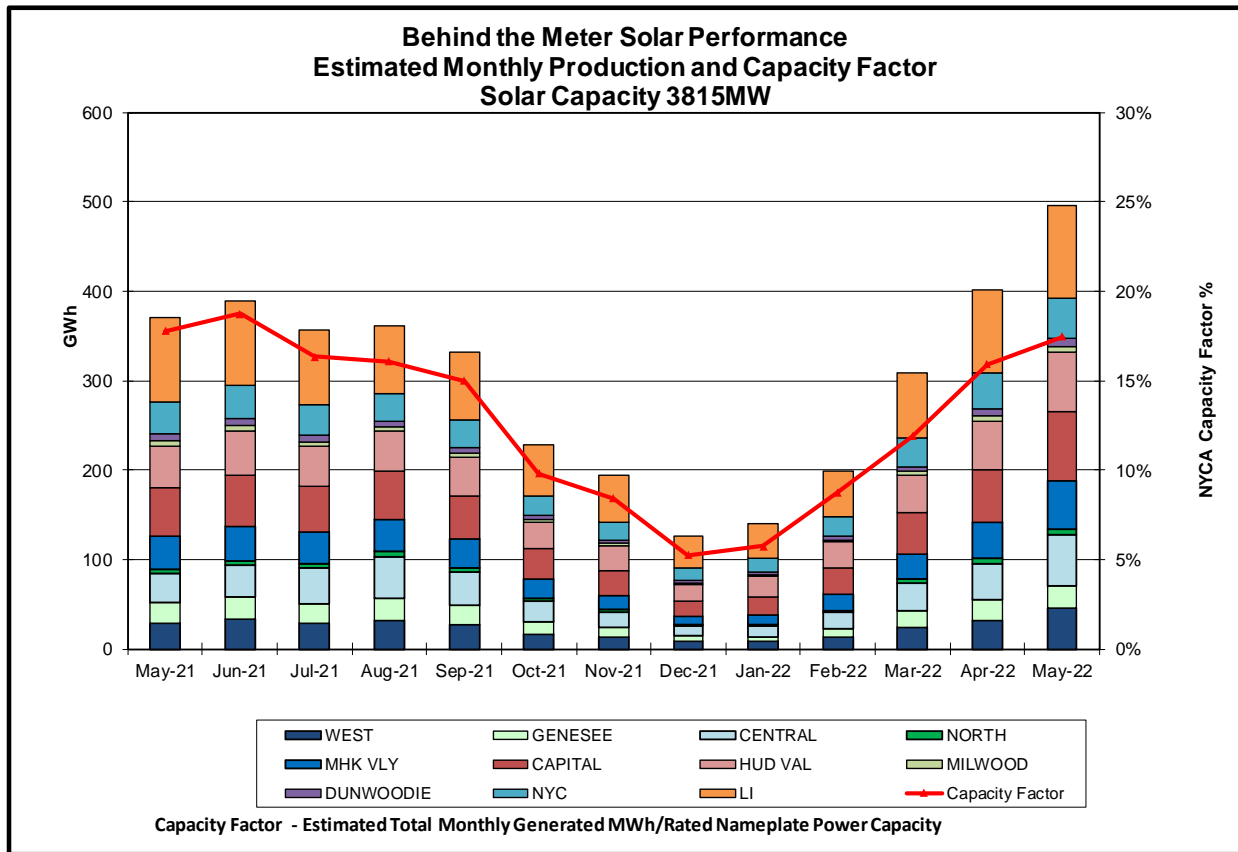


MAE Forecast - Avg |actual wind generation - hour ahead forecast wind generation| / Wind Capacity
MAE Persistence - Avg |actual wind generation - hour ahead actual wind generation| / Wind Capacity
Bias - Avg (actual wind generation - hour ahead forecast wind generation) / Wind Capacity

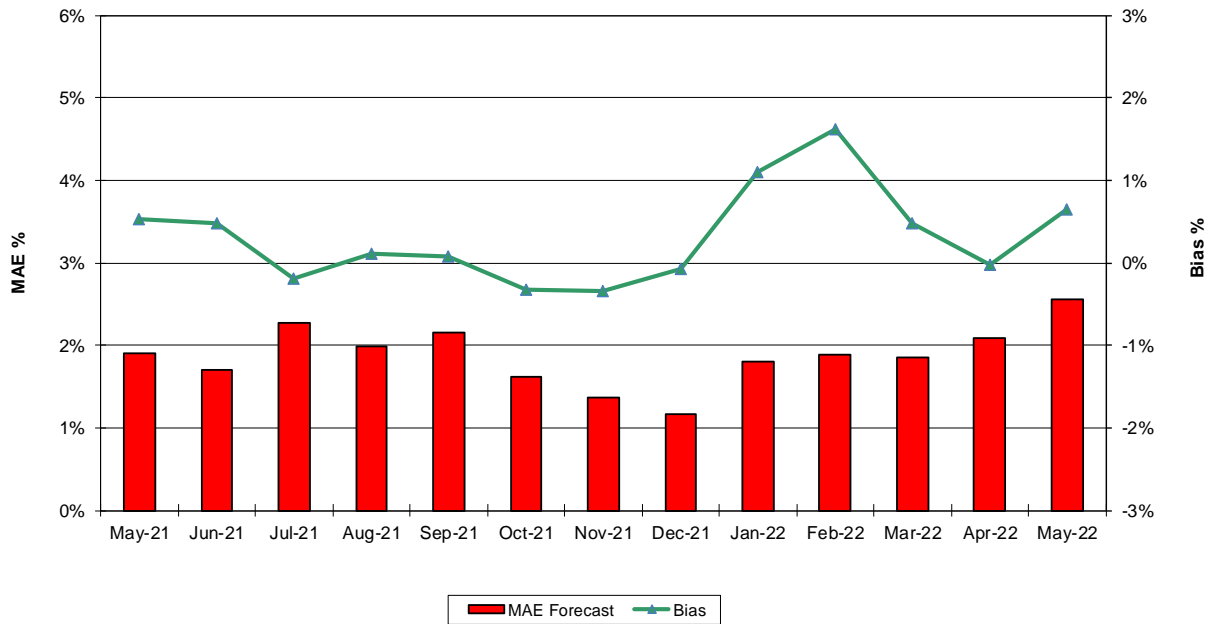






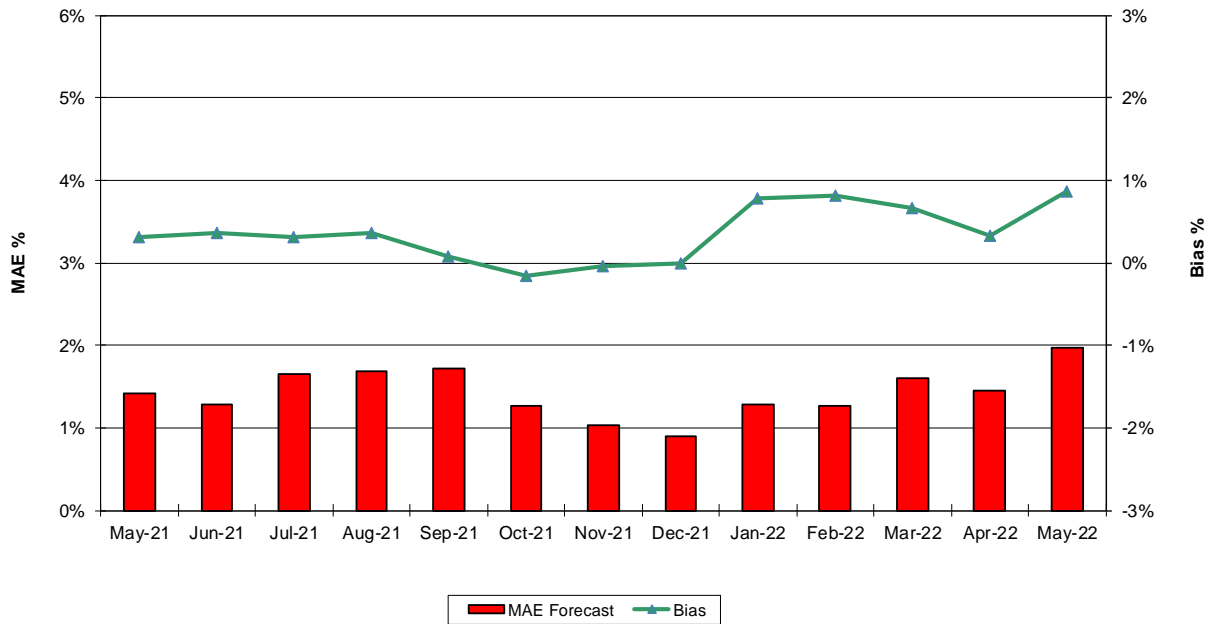


Behind the Meter Solar Forecast Performance Day Ahead Percent Error

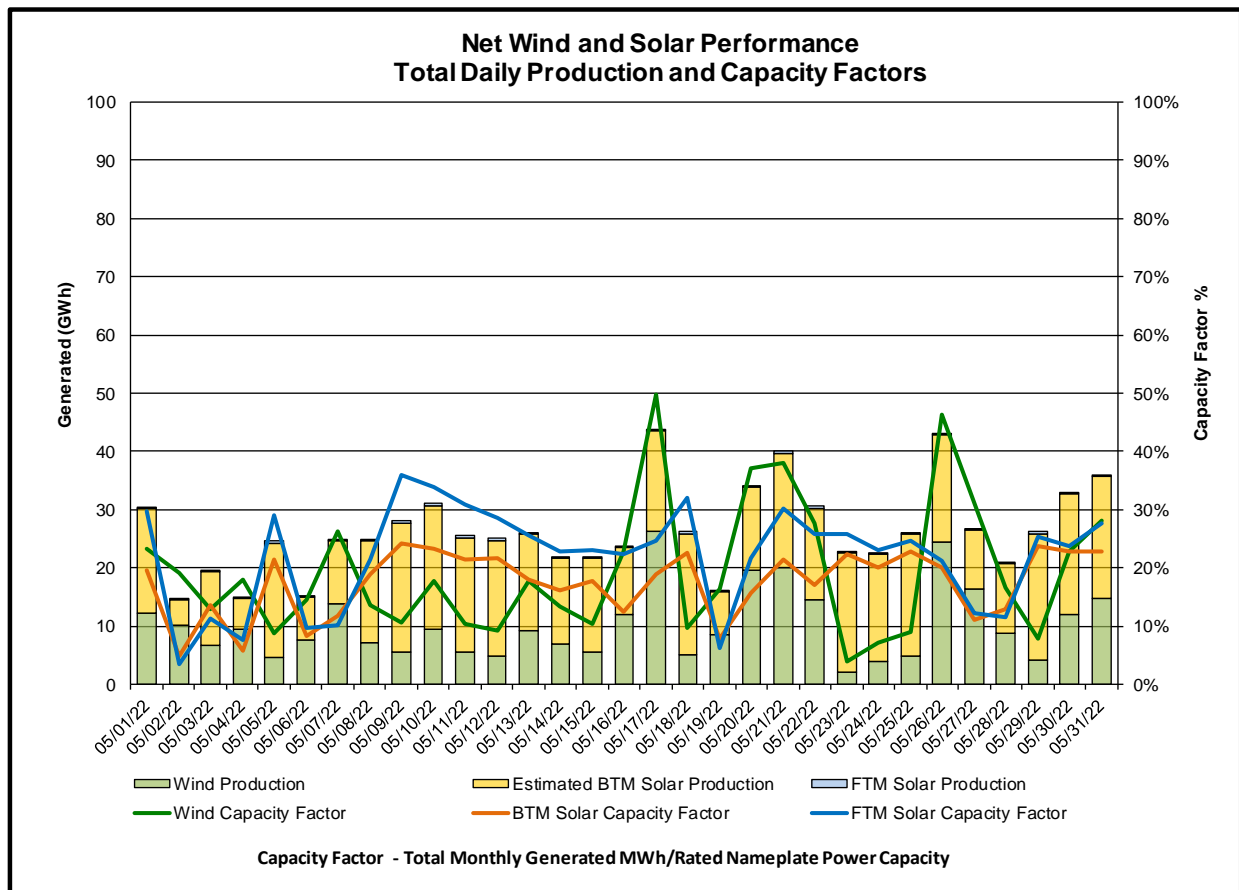
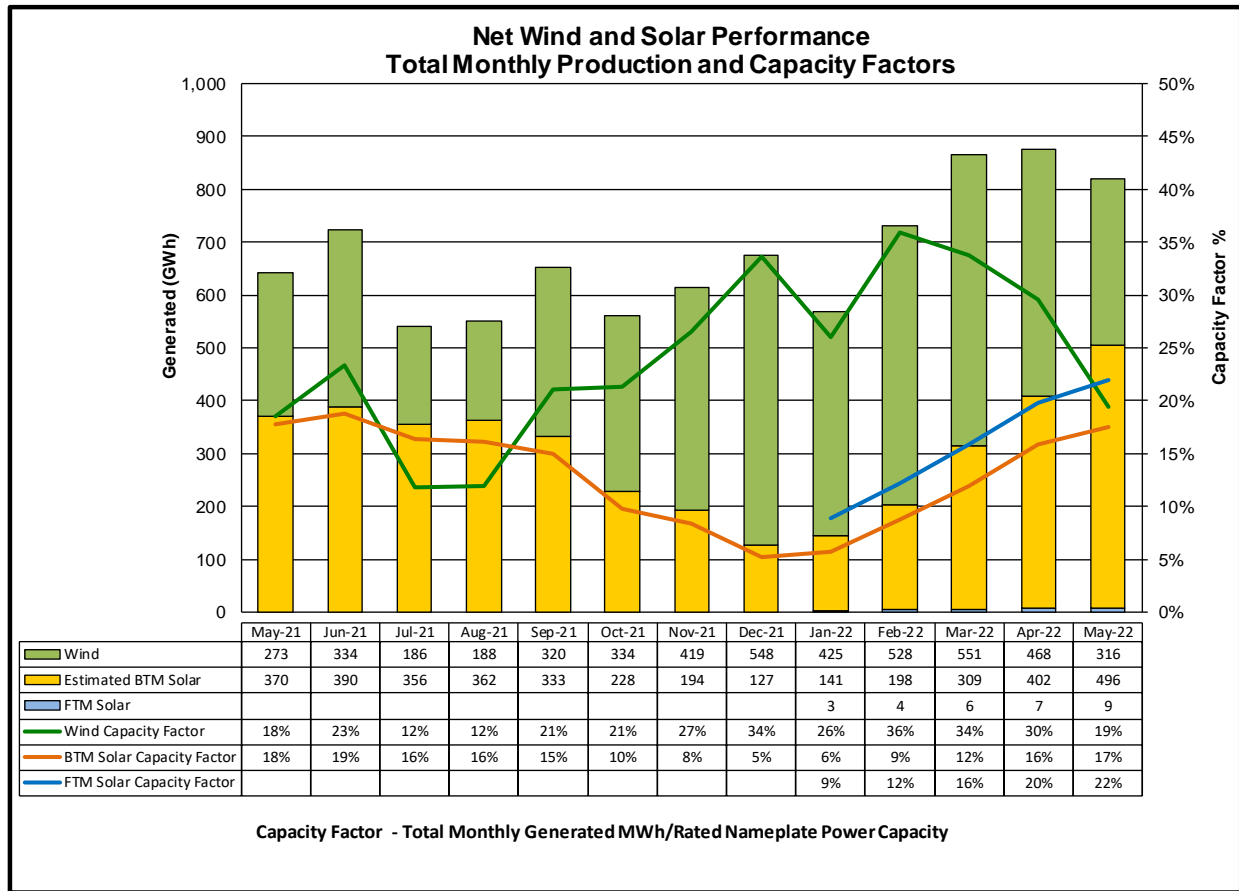


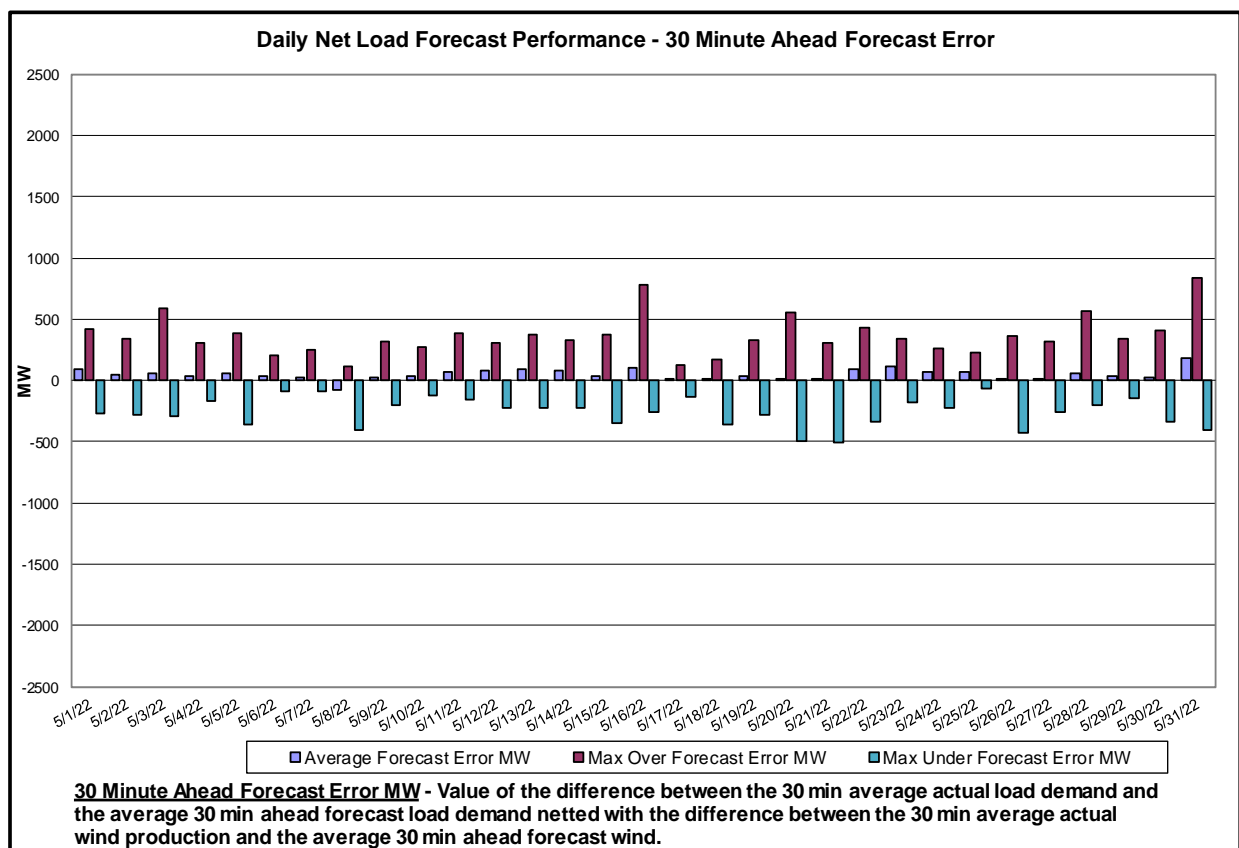
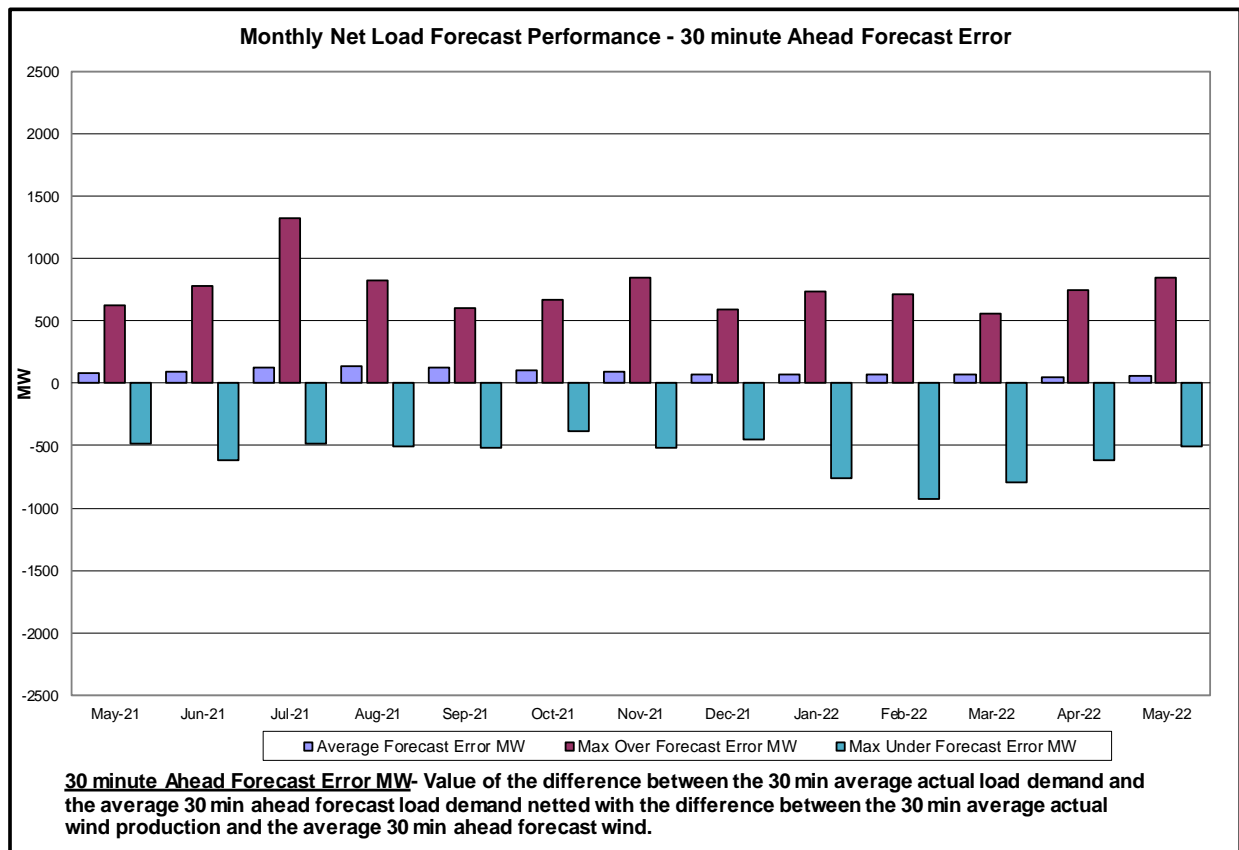
MAE Forecast - Avg |est. actual solar generation - Day Ahead forecast solar generation| / Solar Capacity
Bias - Avg (est. actual solar generation - Day Ahead forecast solar generation) / Solar Capacity

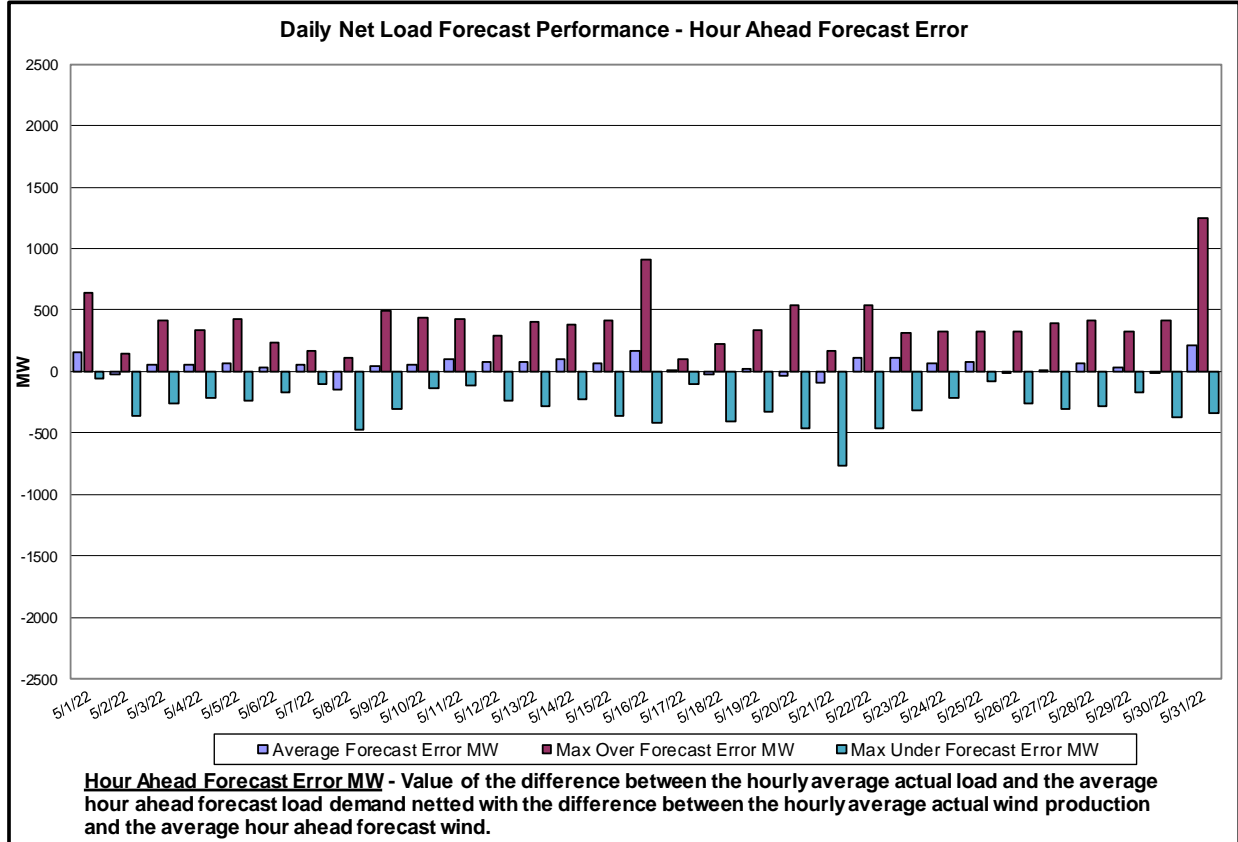
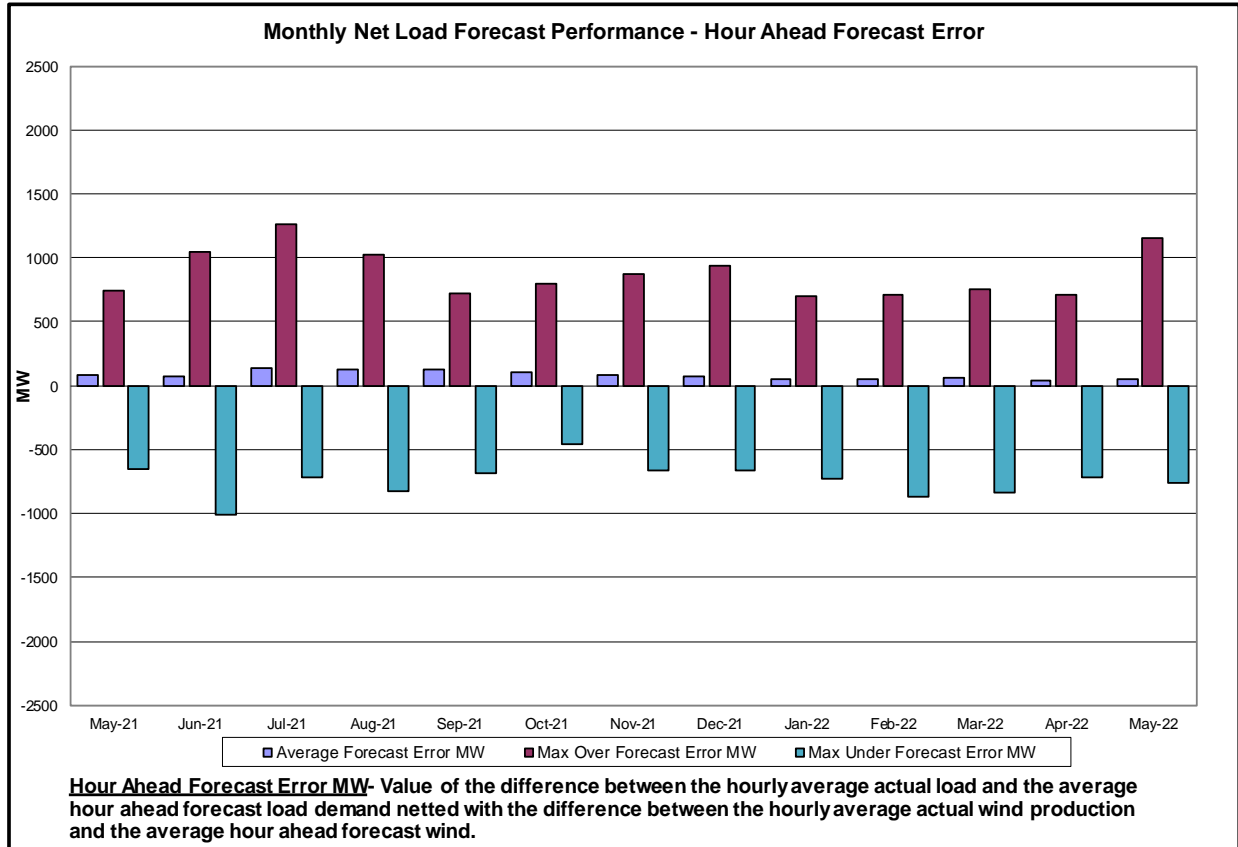
Behind the Meter Solar Forecast Performance Hour Ahead Percent Error

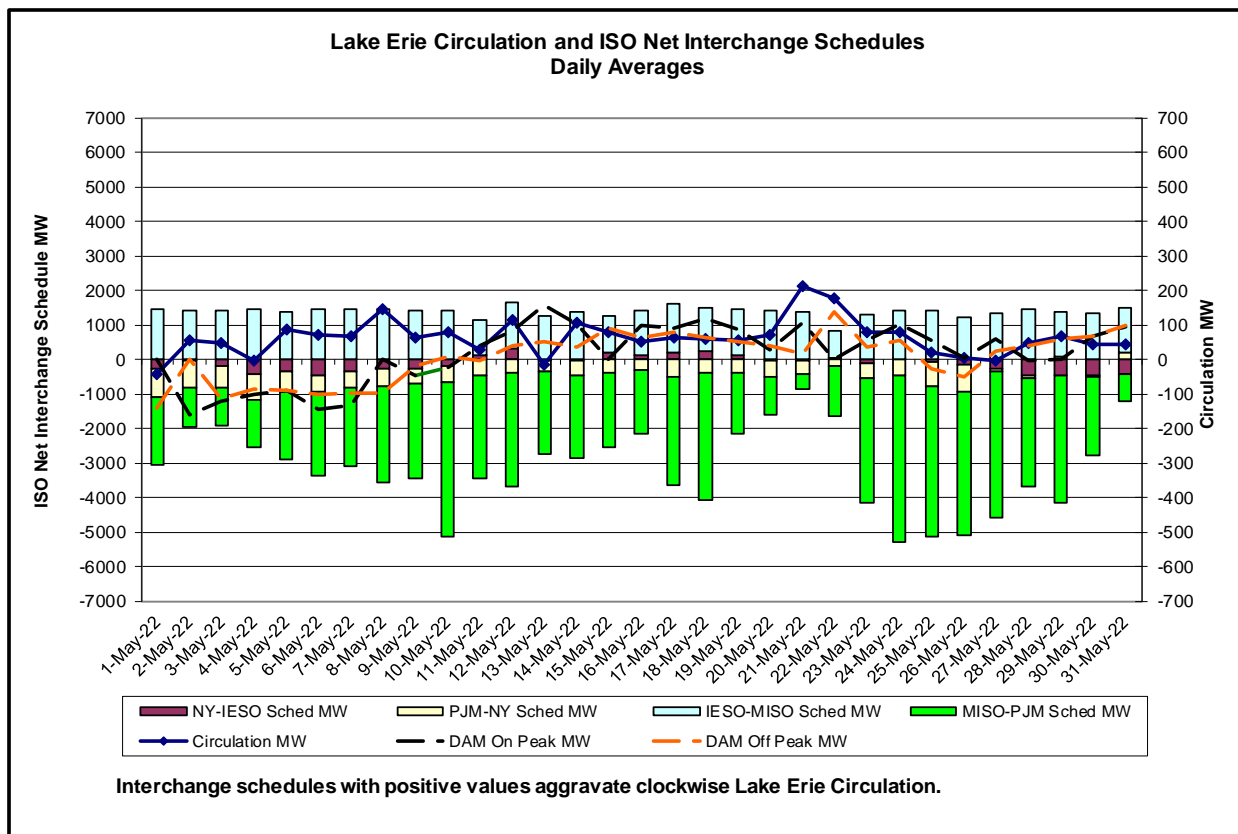
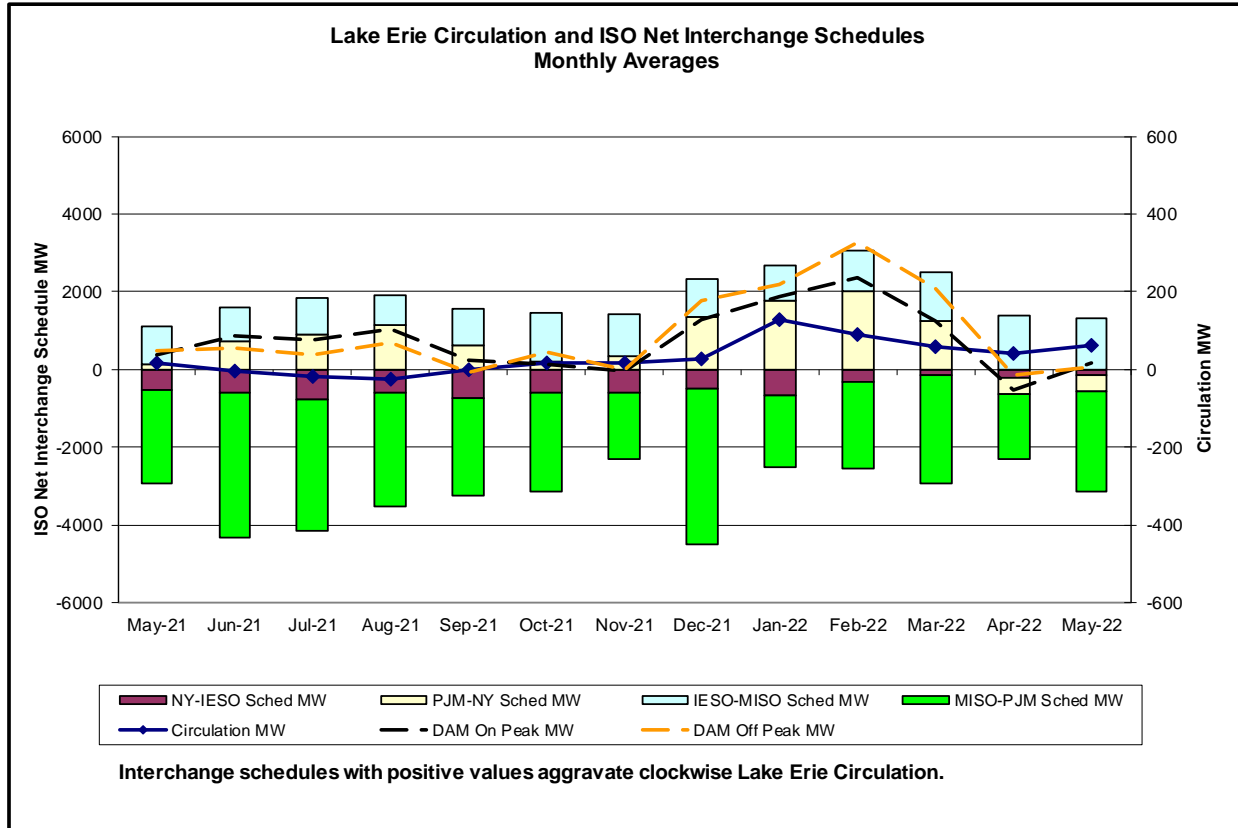


MAE Forecast - Avg |est. actual solar generation - Hour Ahead forecast solar generation| / Solar Capacity
Bias - Avg (est. actual solar generation - Hour Ahead forecast solar generation) / Solar Capacity

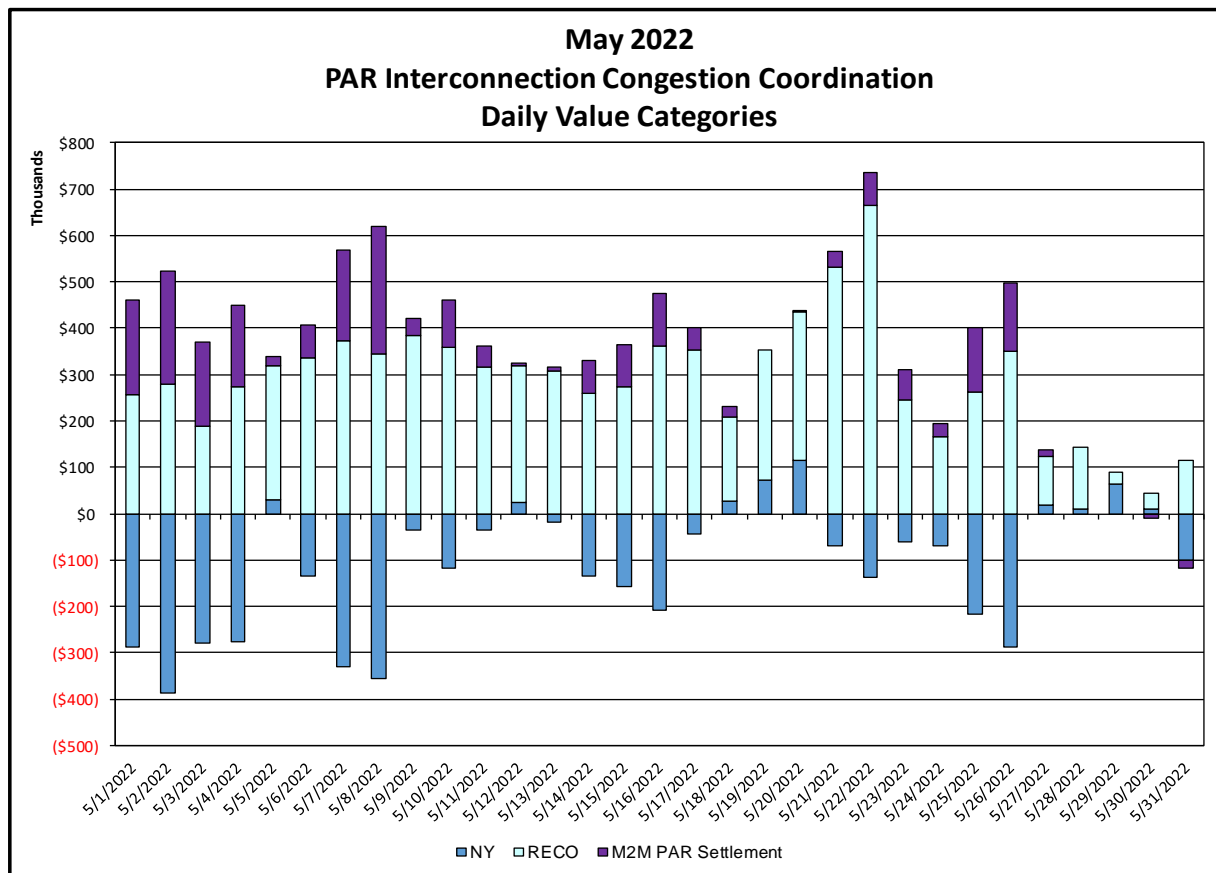
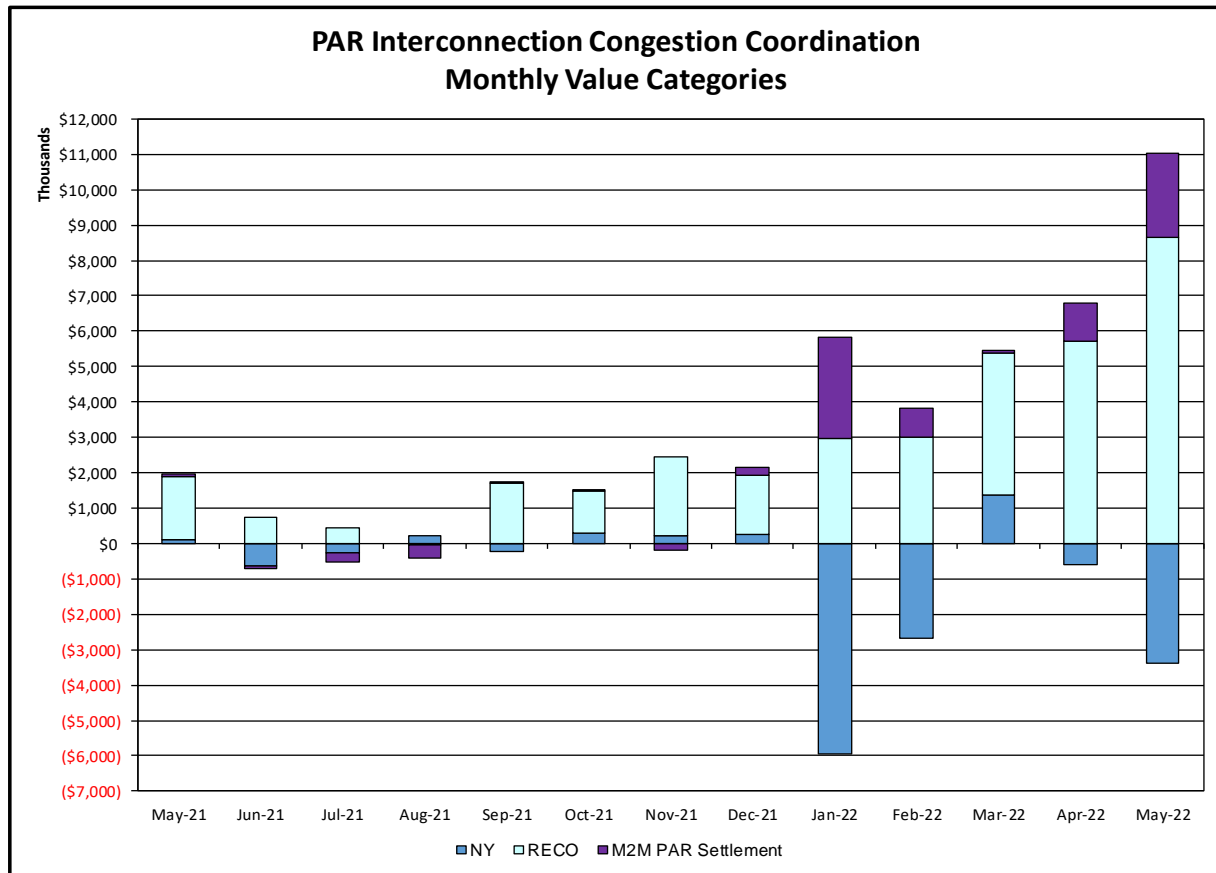




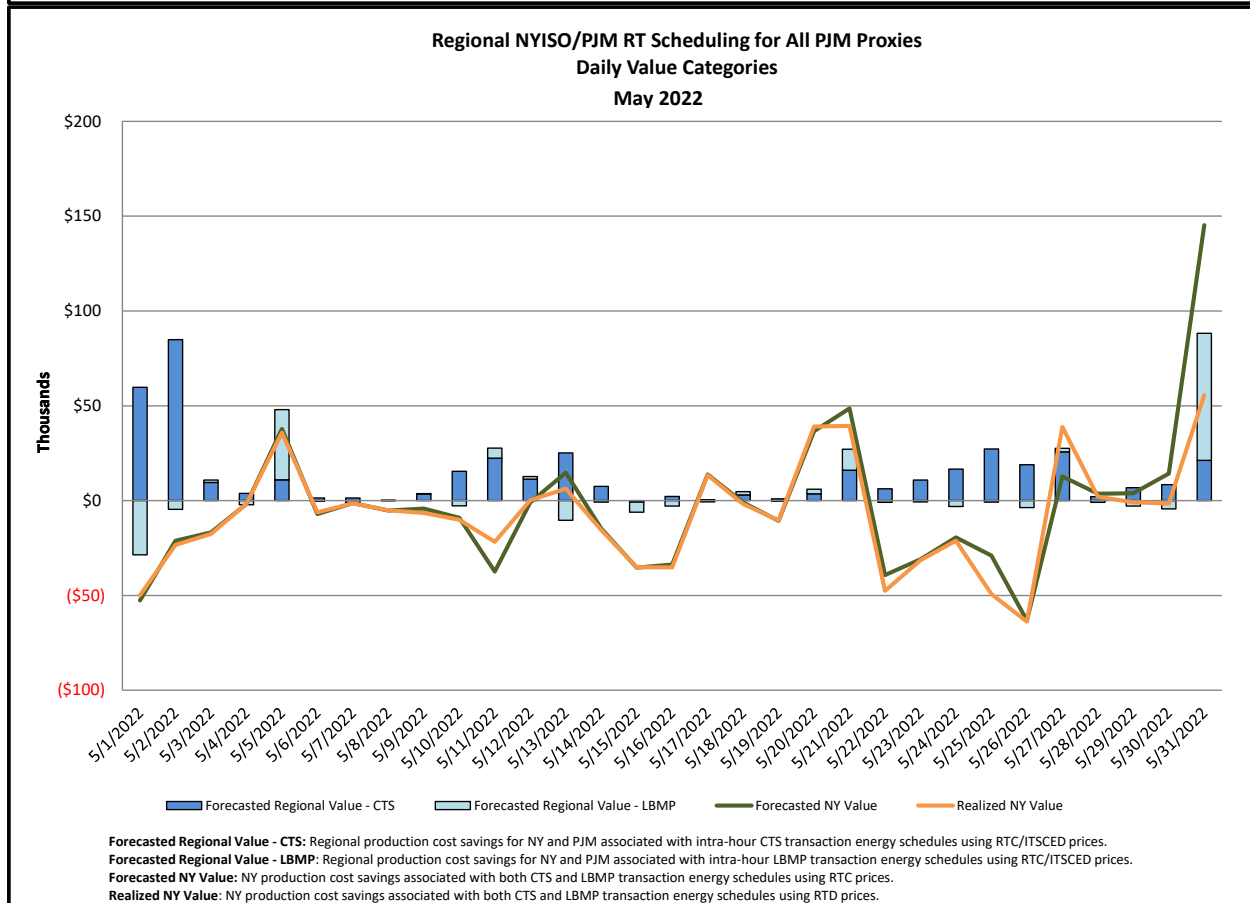
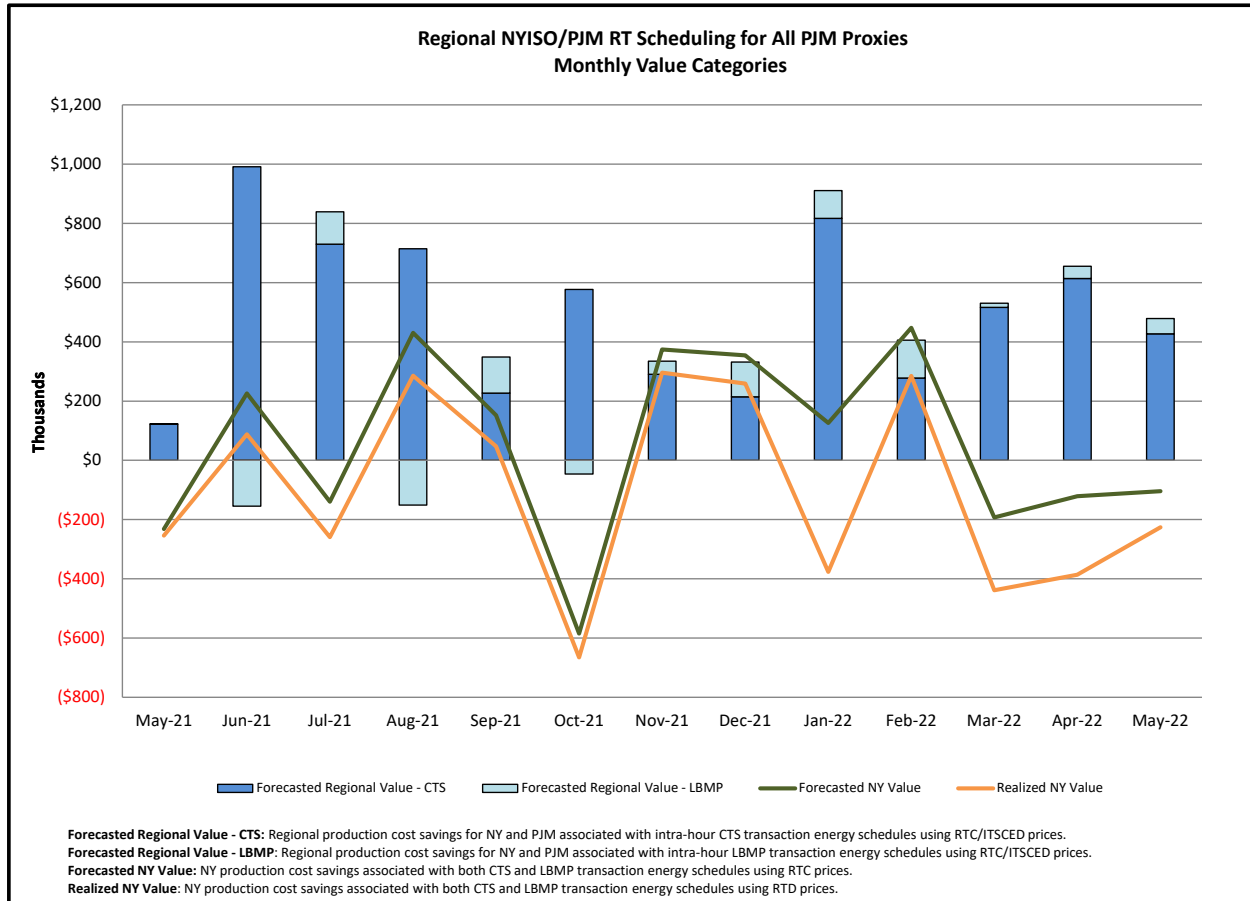




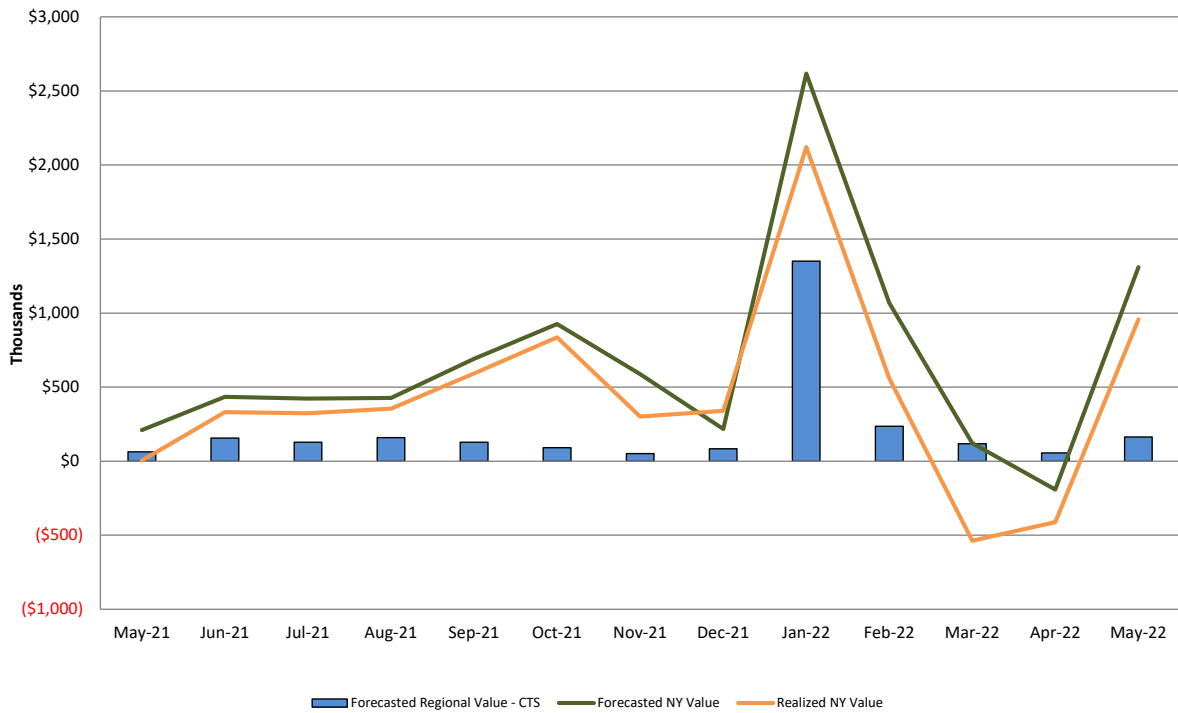
Broader Regional Market Performance Metrics



| <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. |

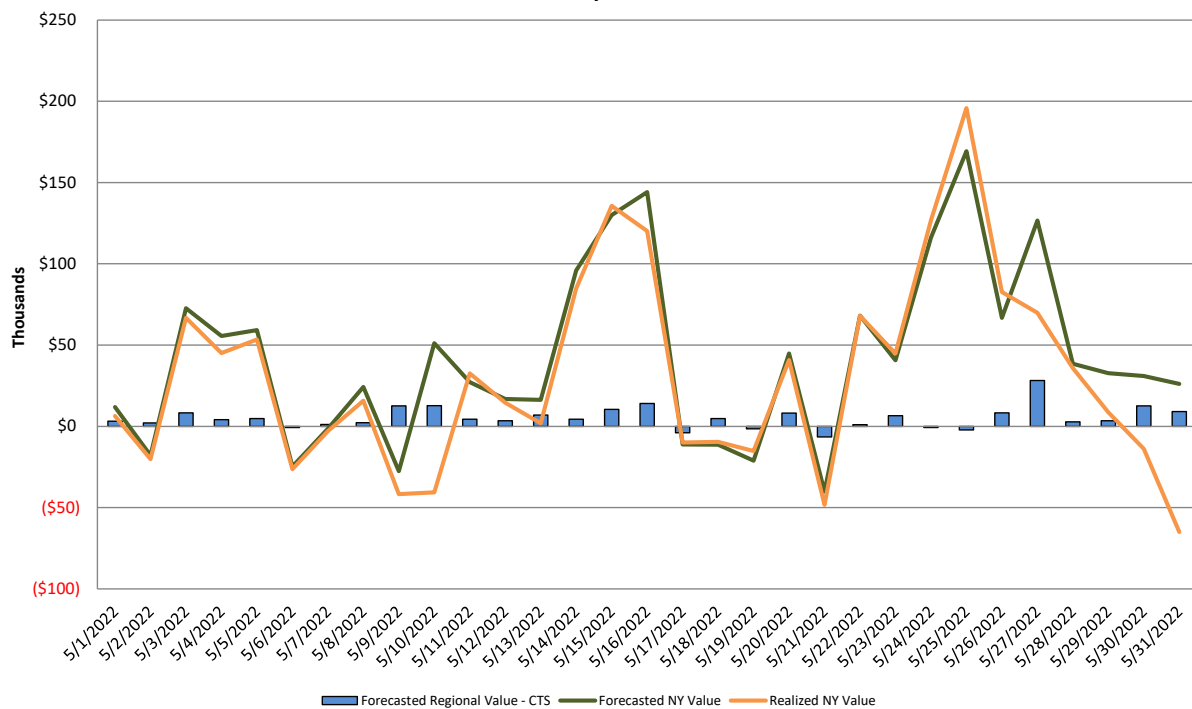


Regional NYISO/NE RT Scheduling for ISO-NE AC Monthly Value Categories



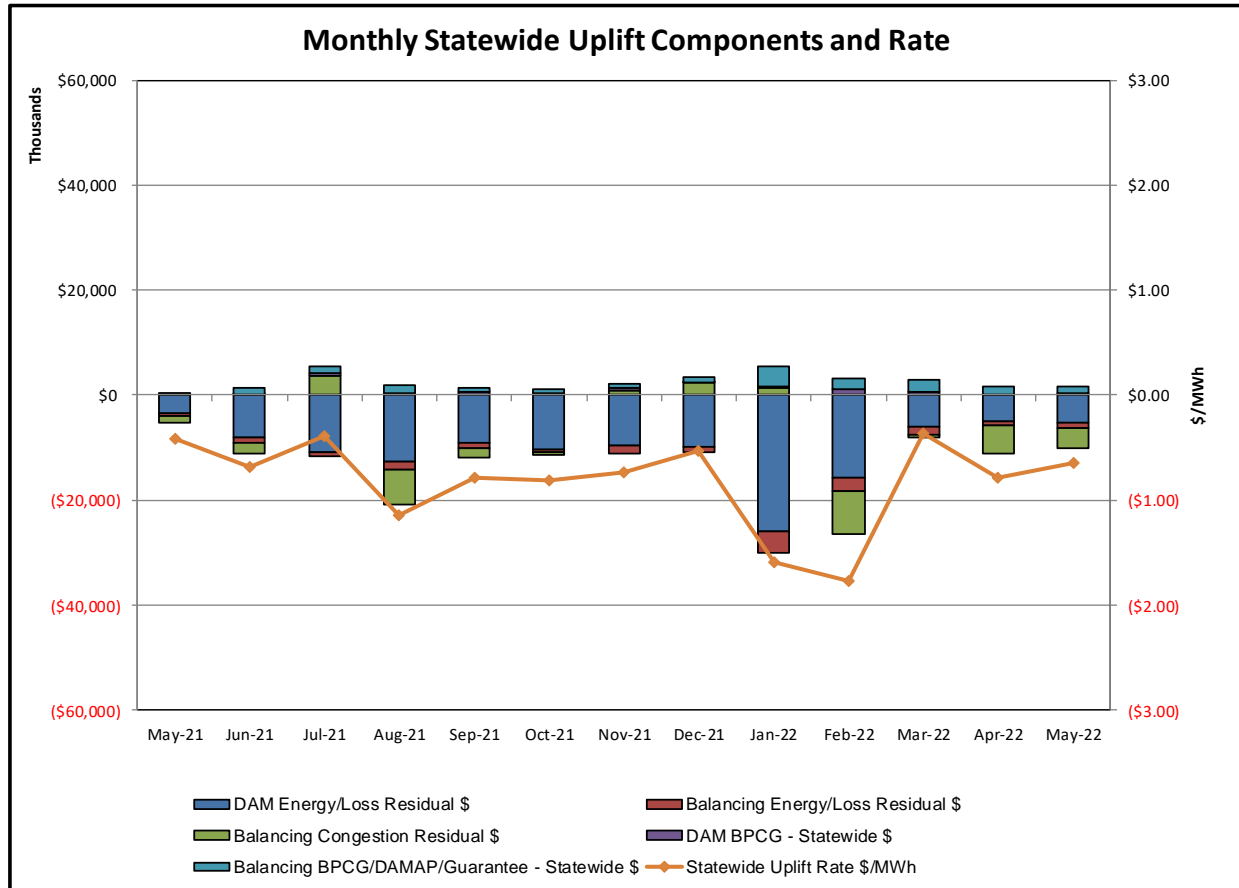
Forecasted Regional Value - CTS: Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices.
Forecasted NY Value: NY production cost savings associated with CTS transaction energy schedules using RTC prices.
Realized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

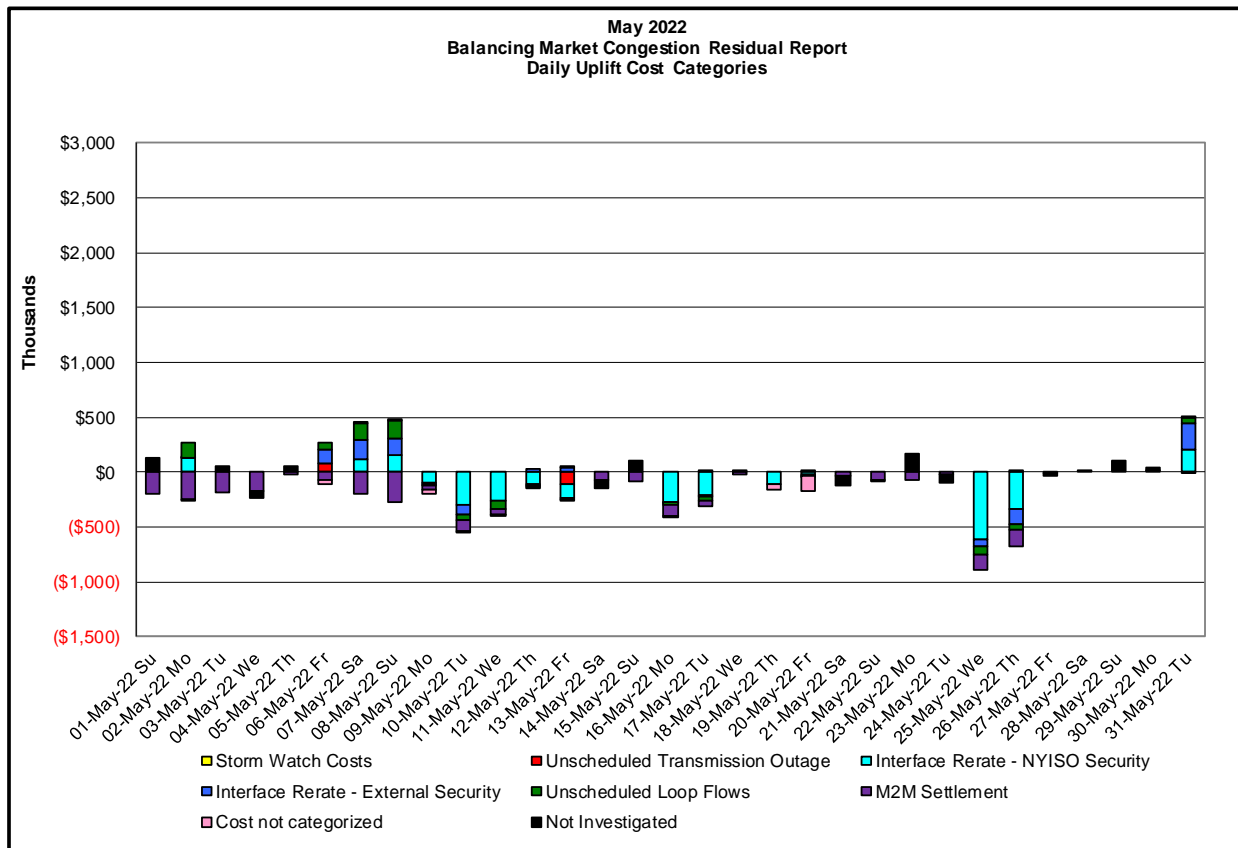
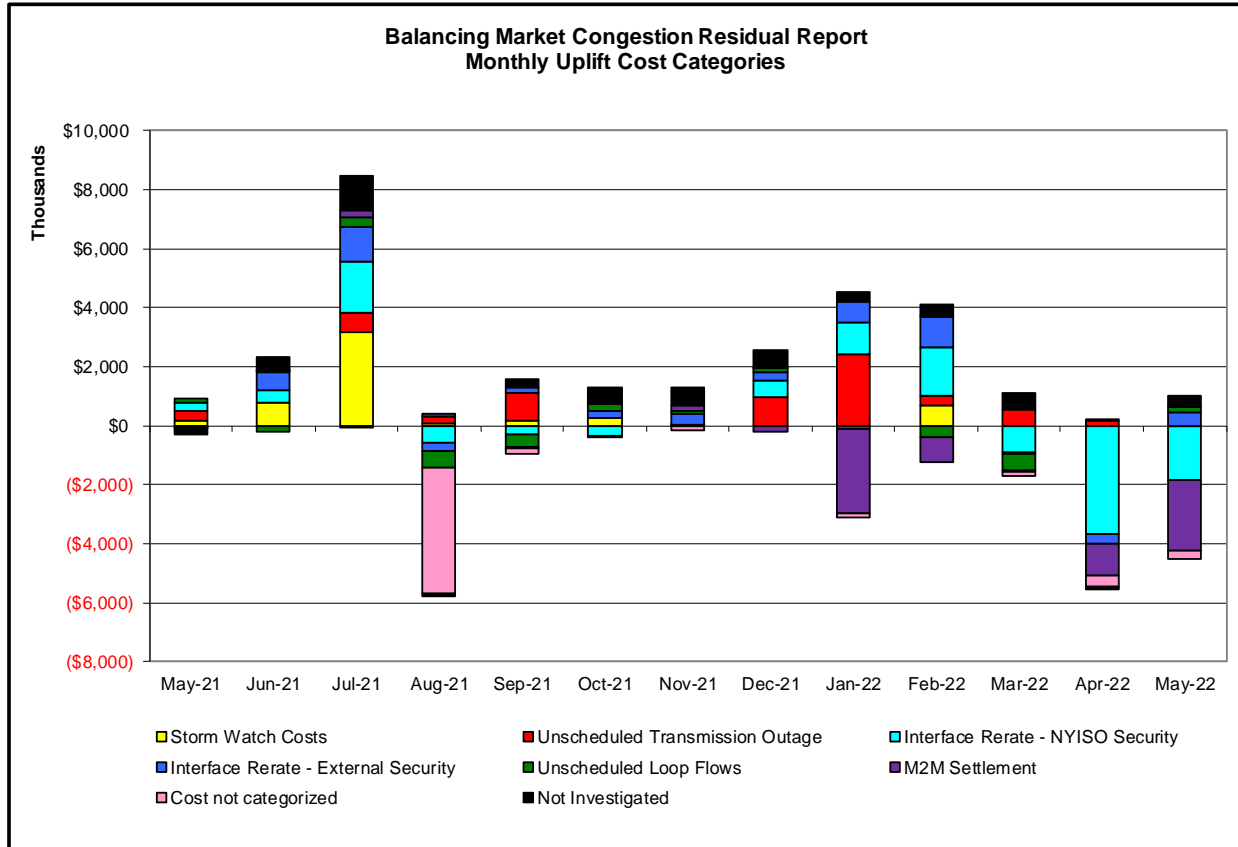
Regional NYISO/NE RT Scheduling for ISO-NE AC Daily Value Categories May 2022



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





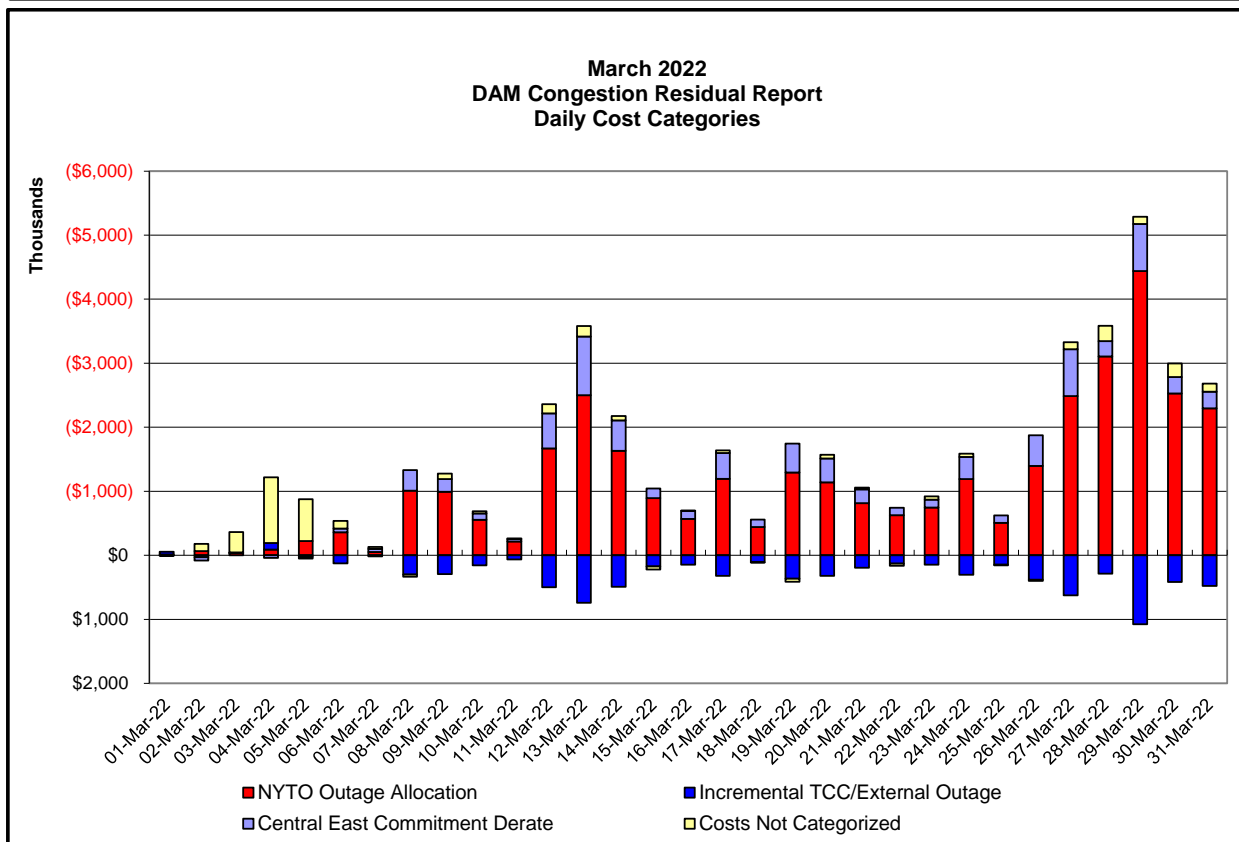
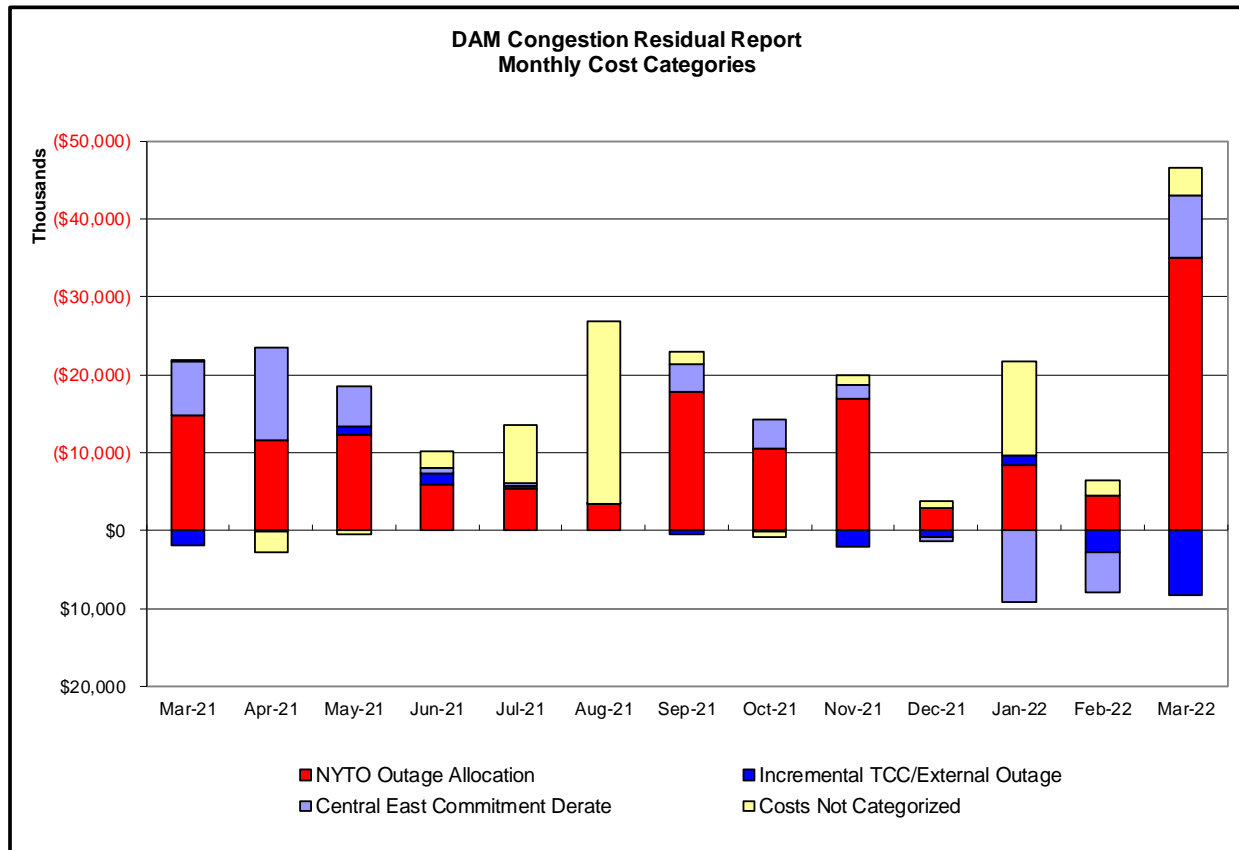
| Day's investigated in May: 2,6,7,8,9,10,11,12,13,16,17,19,20,25,26,31 | | |
|---|--|------------------------------|
| Event | Description | May Dates |
| | Early return to service Edic-Fraser 345kV (#EF24-40) | 13 |
| | Forced outage Pierce Brook-Five Mile Rd 345kV (#37) | 6 |
| | Derate Central East | 2,6-9,17 |
| | Derate Chester-Shoemaker 138kV (#27) I/o TWR:RAMAPO (76&77&BK1112) | 31 |
| | Derate East 13th St.-Farragut 345kV (#45) I/o SCB:SPBK(RS3):W75&99941 | 31 |
| | Derate Elwood-Northport 138kV (#678) | 31 |
| | Derate Goethals-Gowanus 345kV (#26) I/o Goethals-Freshkills 345kV (#21) | 20 |
| | Derate Gowanus-Greenwood 138kV (#42231) I/o TWR:GOETHALS (#22&21) | 31 |
| | Derate Greenbush-Regeneron 115kV (#9) | 31 |
| | Derate Greenbush-Regeneron 115kV (#9) I/o SEABROOK | 31 |
| | Derate Lake Success-ShoreRd 138kV (#367) I/o ShoreRd-Lake Success (#368) | 31 |
| | Derate Lake Success-ShoreRd 138kV (#368) I/o ShoreRd-Lake Success (#367) | 31 |
| | Derate Northport-Pilgrim 138kV (#672) | 31 |
| | Derate Porter-Rotterdam 230kV (#30) I/o SEABROOK | 31 |
| | Derate West 49th St.-Springbrook 345kV (#M52) I/o SCB:SPBK(RS3):W75&99941 | 31 |
| | NYCA DNI Ramp Limit | 3,16,17,26,31 |
| | Uprate Central East | 2,3,6,9-13,16,17,19,20,25,26 |
| | Uprate Cricket Valley-Pleasant Valley 345kV (#F83) I/o Cricket Valley-Pleasant Valley 345kV (#F84) | 9-13,16,17 |
| | Uprate Dunwoodie-Shore Rd 345kV (#Y50) | 2,3,10,13,16,17,25 |
| | Uprate East 179th St-Hellgate 138kV (#15053/15054) | 16 |
| | Uprate Freshkills-Willowbrook 138kV (#29211) | 11,16,25,31 |
| | Uprate Gowanus-Greenwood 138kV (#42232) I/o SCB:Gowanus(2):(41&42231&R4) | 25 |
| | Uprate Hudson Ave-Plymouth St 138kV (#32078) | 16 |
| | Uprate NiagaraBlvd-Packard 115kV (#181-922) | 31 |
| | Uprate NiagaraBlvd-Packard 115kV (#181-922) I/o GARDNVLA-GIRDLERD 115kV (#705) | 31 |
| | Uprate NiagaraBlvd-Packard 115kV (#181-922) I/o TWR:PACKARD (#77&78) | 31 |
| | Uprate Pleasant Valley-Leeds 345kV (#92) I/o Leeds-Hurlave 345kV (#301) | 17,19,20 |
| | HQ CEDARS-NY Scheduling Limit | 31 |
| | HQ_CHAT-NY Scheduling Limit | 12,19,31 |
| | IESO AC-NY Scheduling Limit | 12,13,31 |
| | NE AC Active DNI Ramp Limit | 3,10,13,16,17,20,25,26,31 |
| | NE AC-NY Scheduling Limit | 9,10,31 |
| | NE_NNC1385 - NY Scheduling Limit | 17,26,31 |
| | PJM AC-NY Scheduling Limit | 2,6-8,10,13,20,26 |
| | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East | 2,3,6-13,16,17,20,25,26,31 |
| | Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West | 2,10-13,26,31 |

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

| <u>Category</u> | <u>Cost Assignment</u> | <u>Events Types</u> | <u>Event Examples</u> |
|--|------------------------|---|---|
| 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 | |

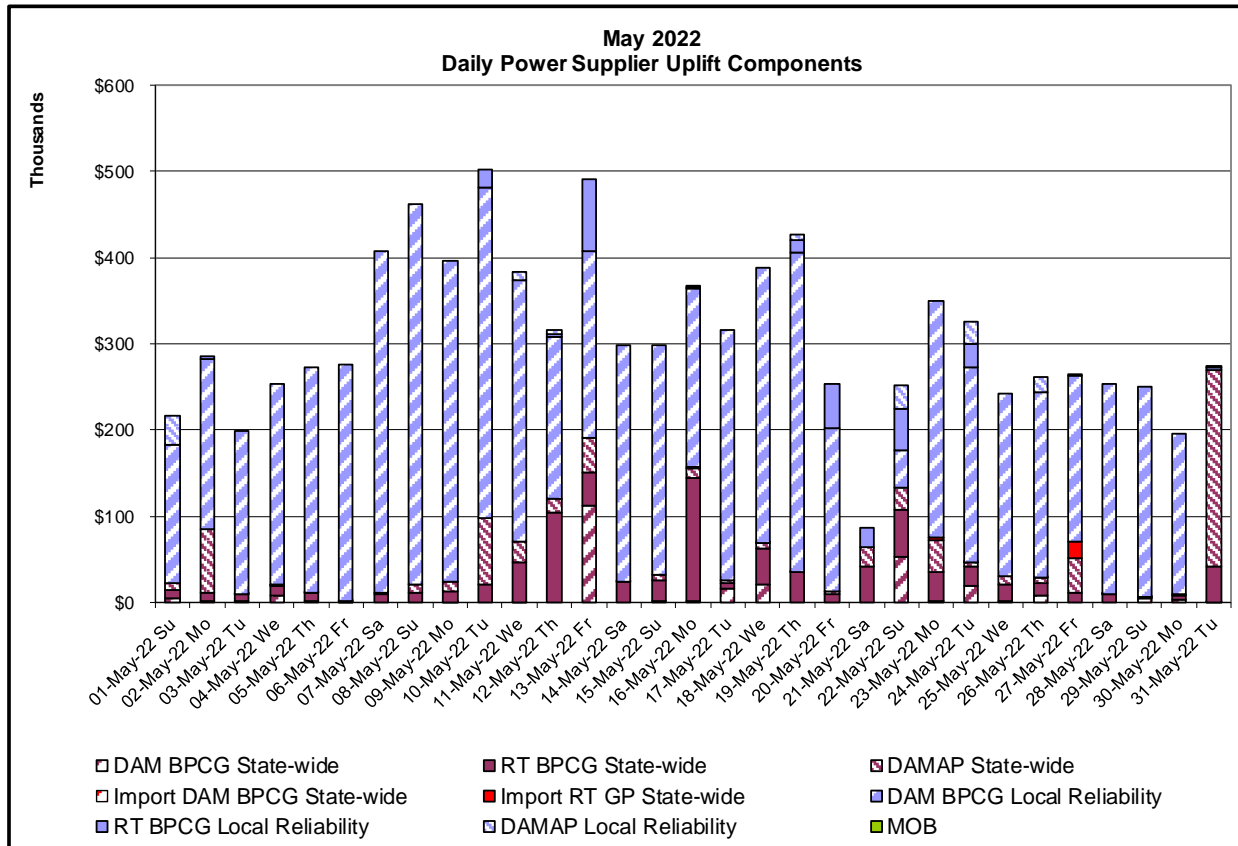
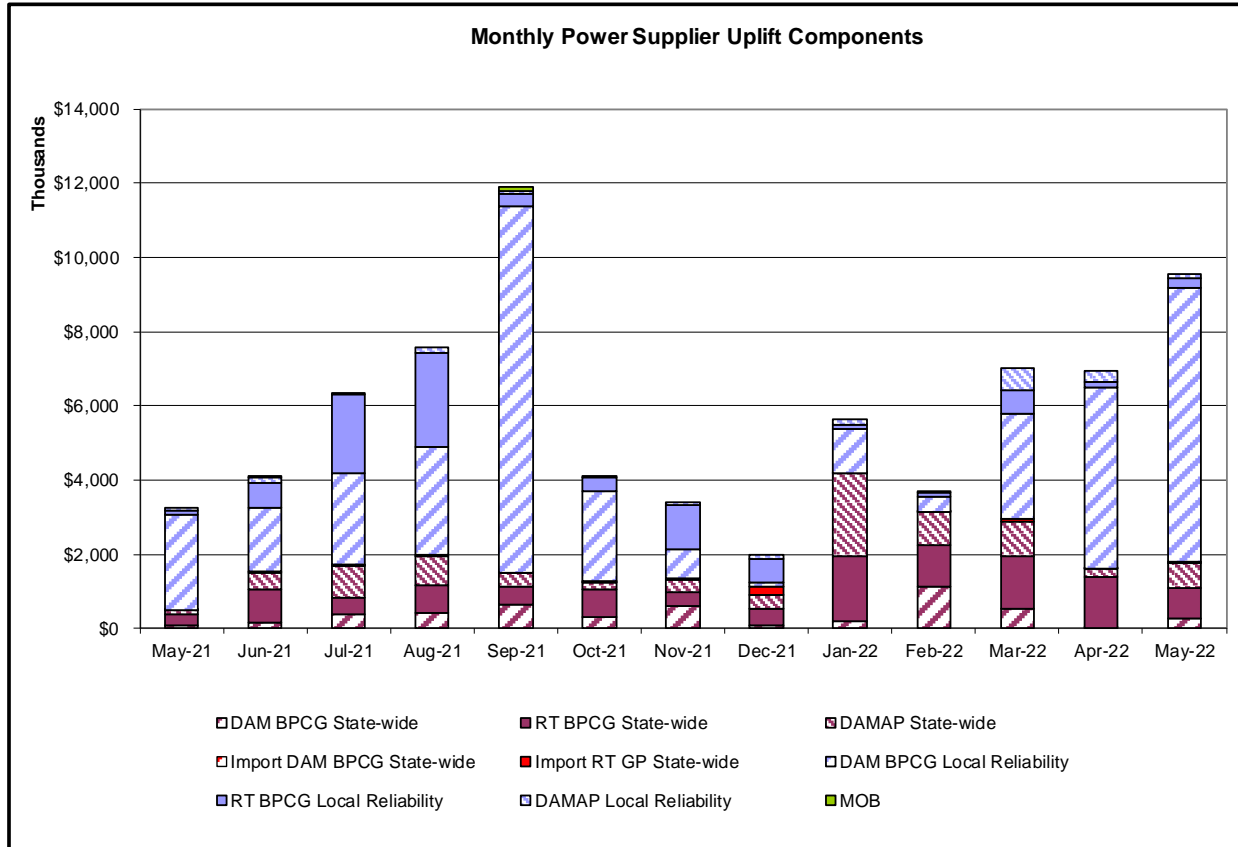
Monthly Balancing Market Congestion Report Assumptions/Notes

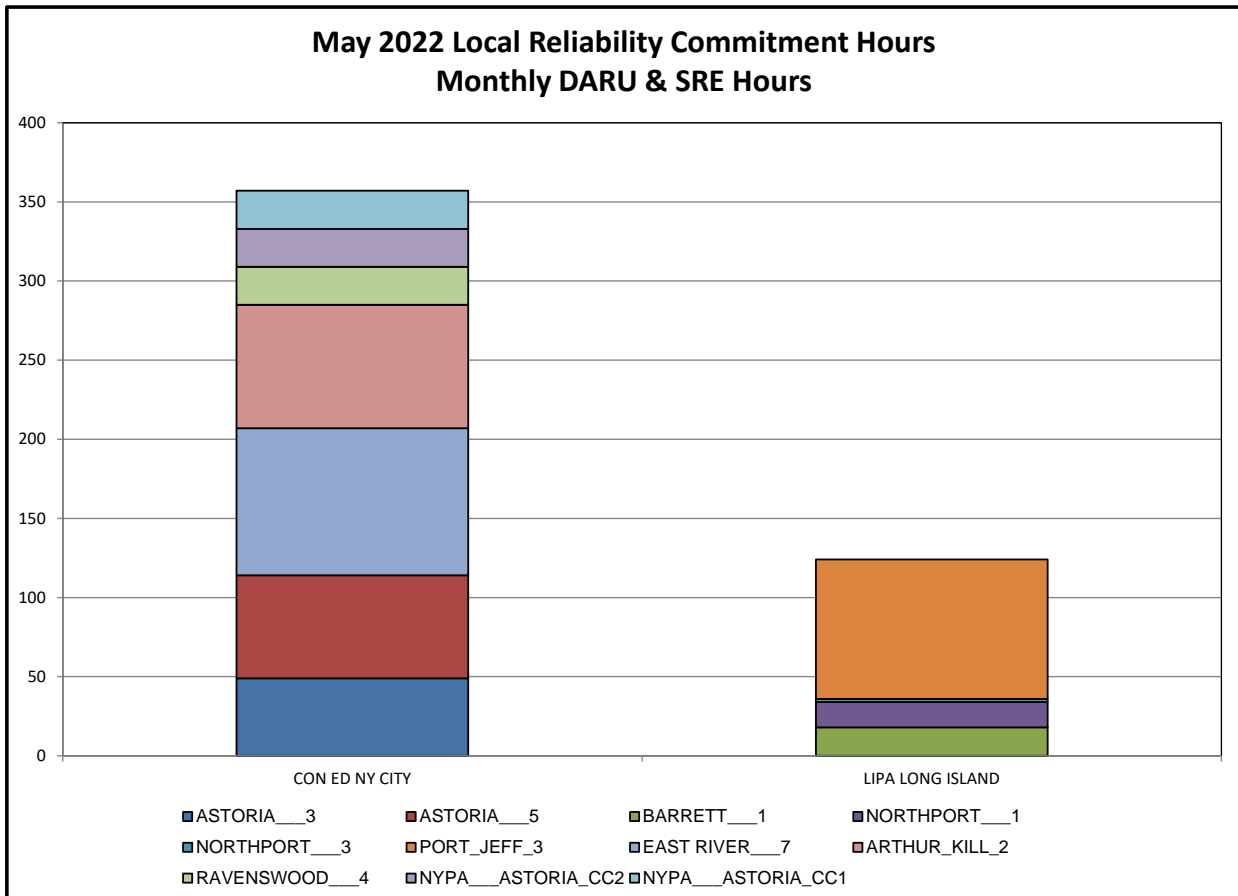
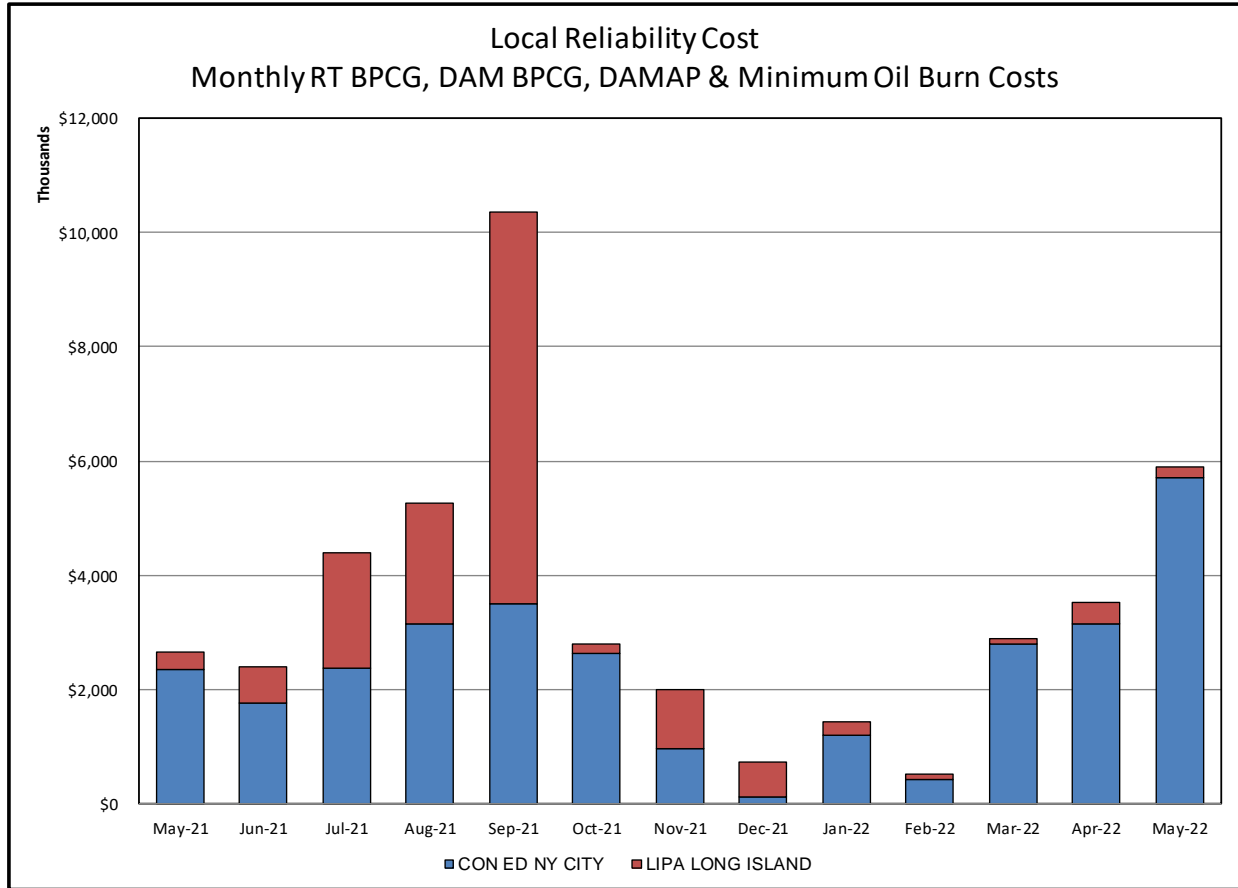
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

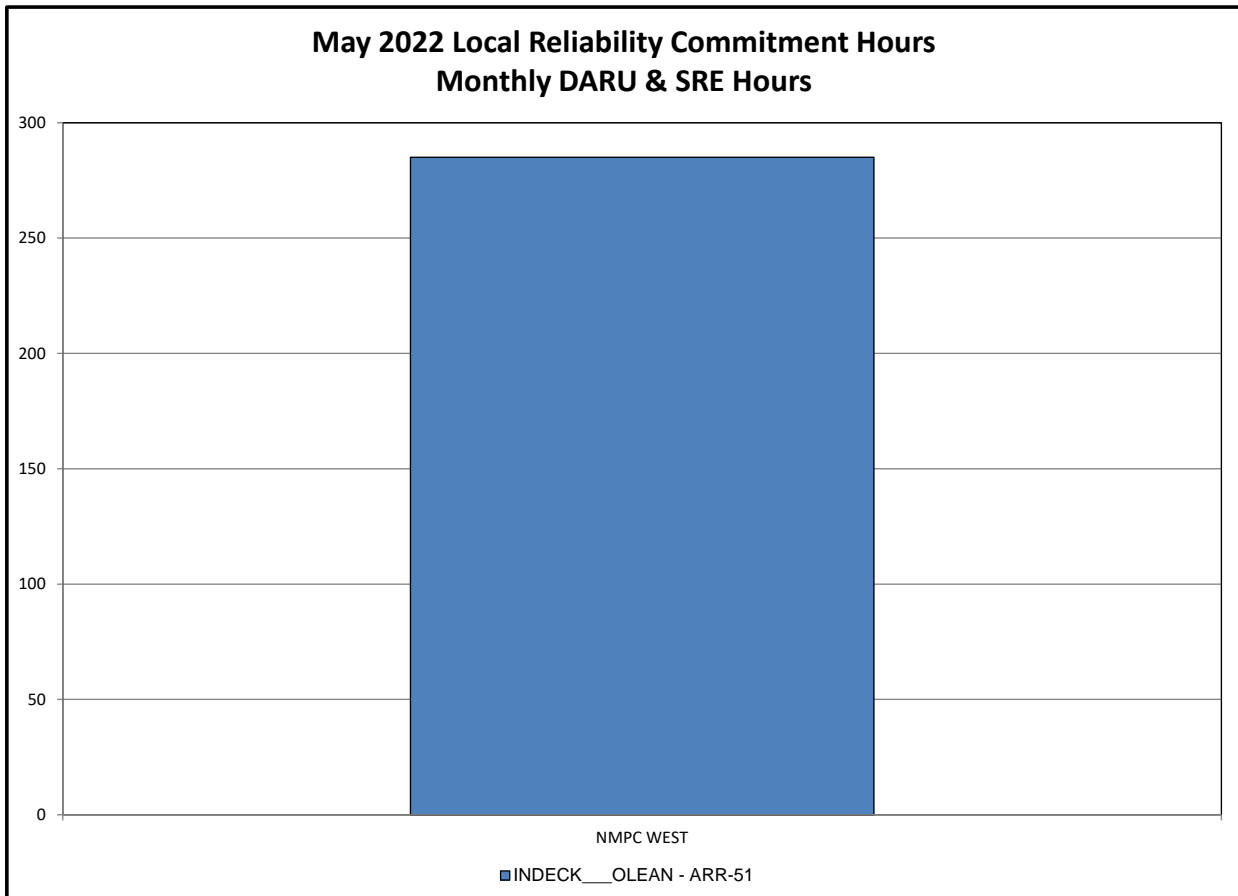
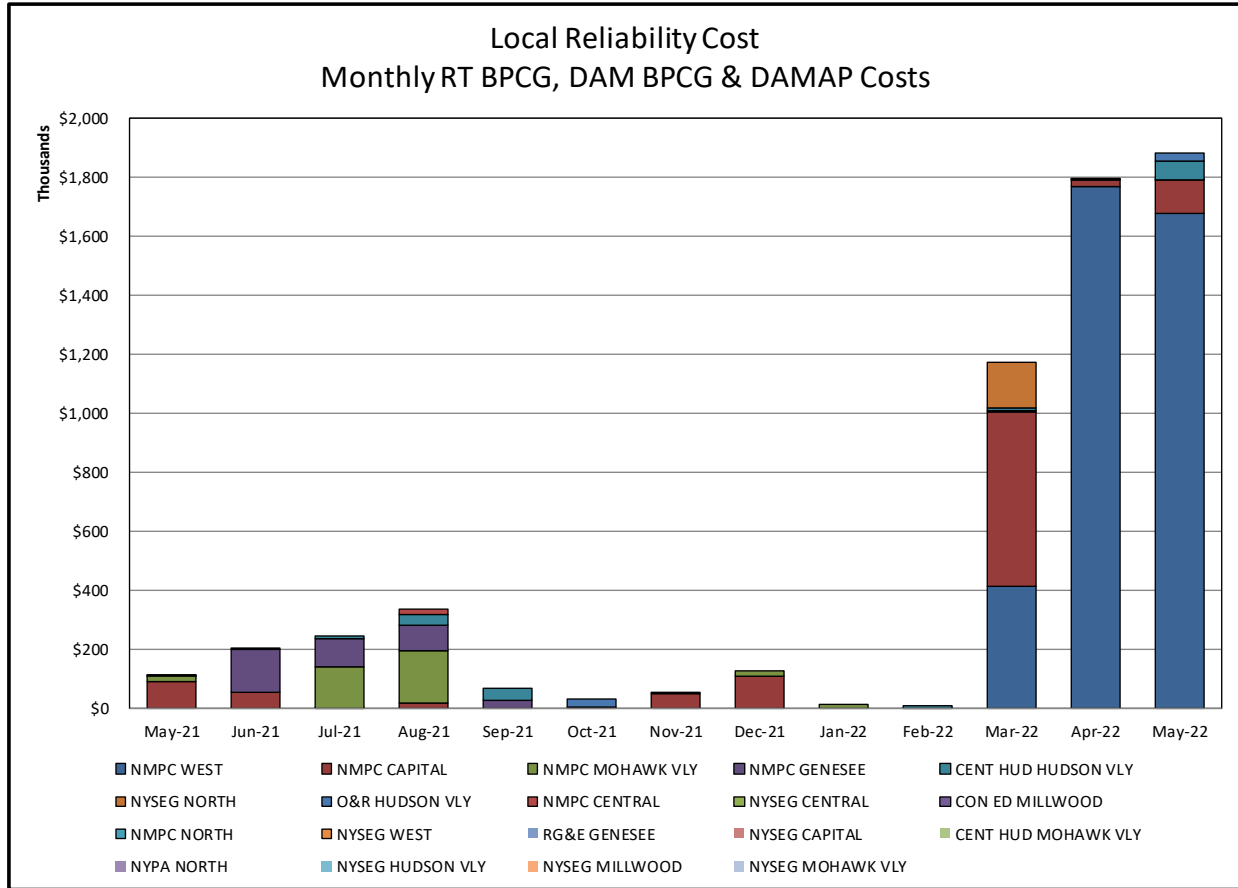


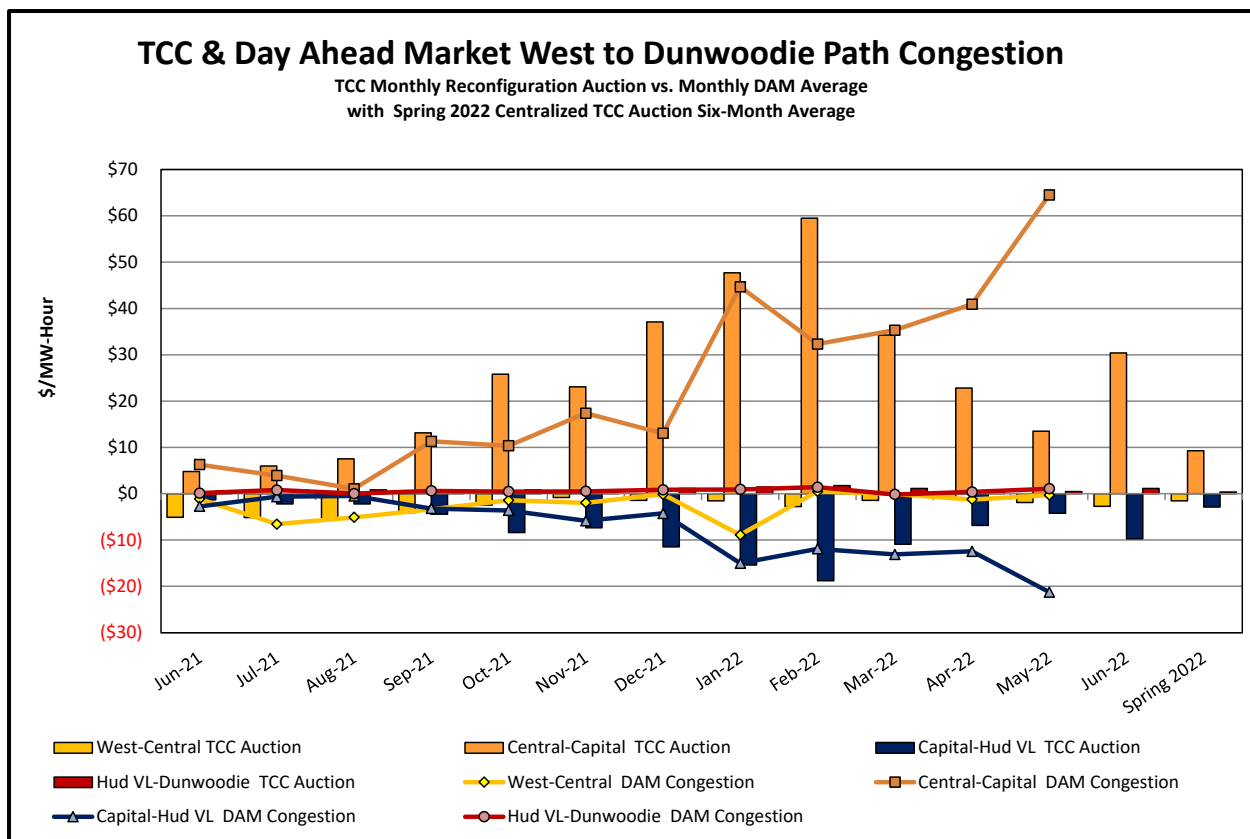
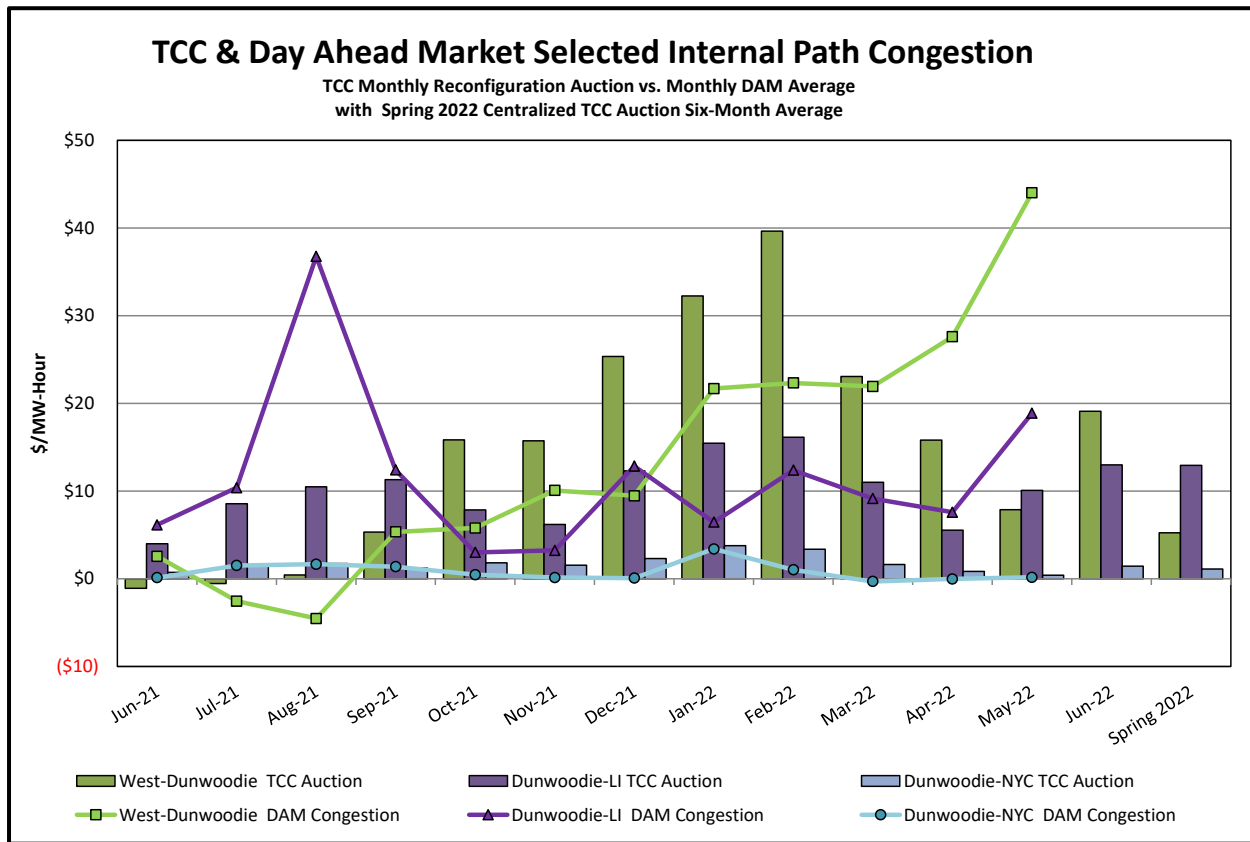
Day-Ahead Market Congestion Residual Categories

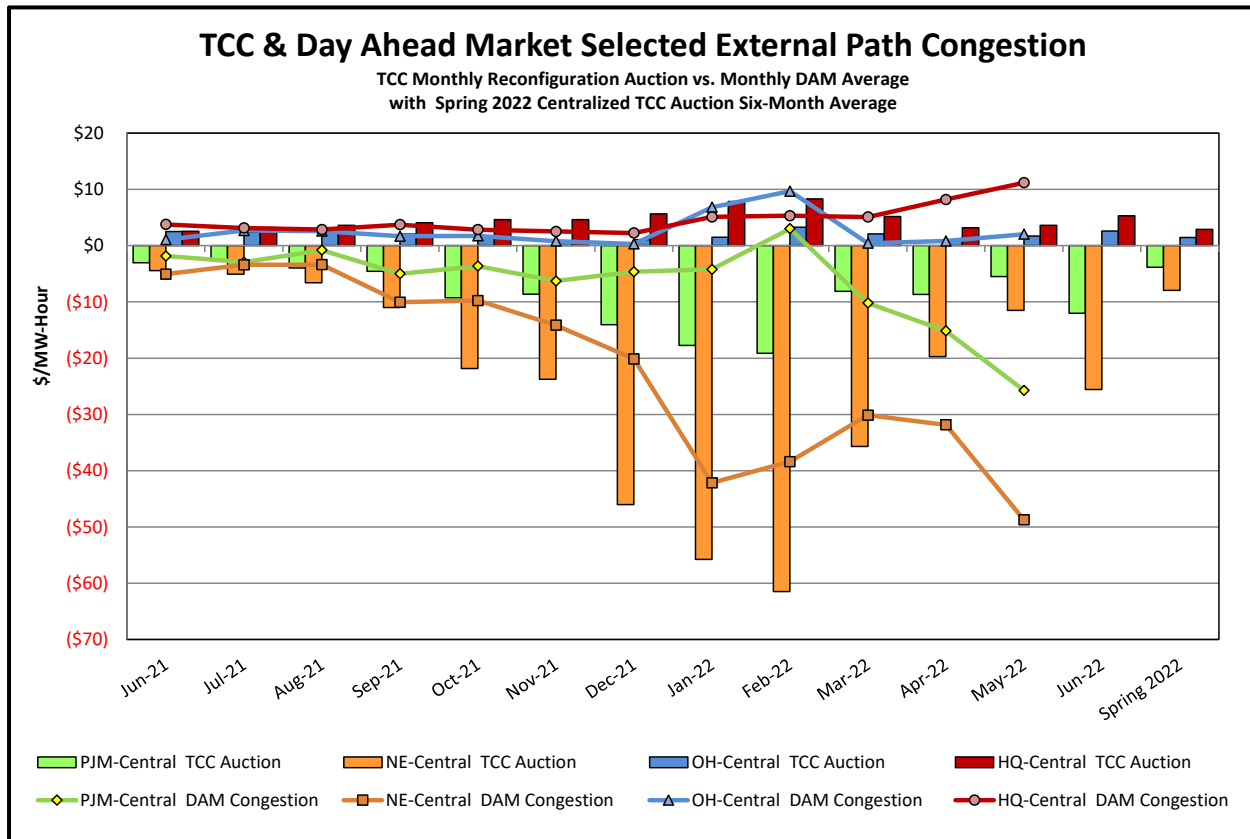
| <u>Category</u> | <u>Cost Assignment</u> | <u>Events Types</u> | <u>Event Examples</u> |
|---|-------------------------------------|--|--|
| NYTO Outage Allocation | Responsible TO | Direct allocation to NYTO's responsible for transmission equipment status change. | DAM scheduled outage for equipment 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. | |

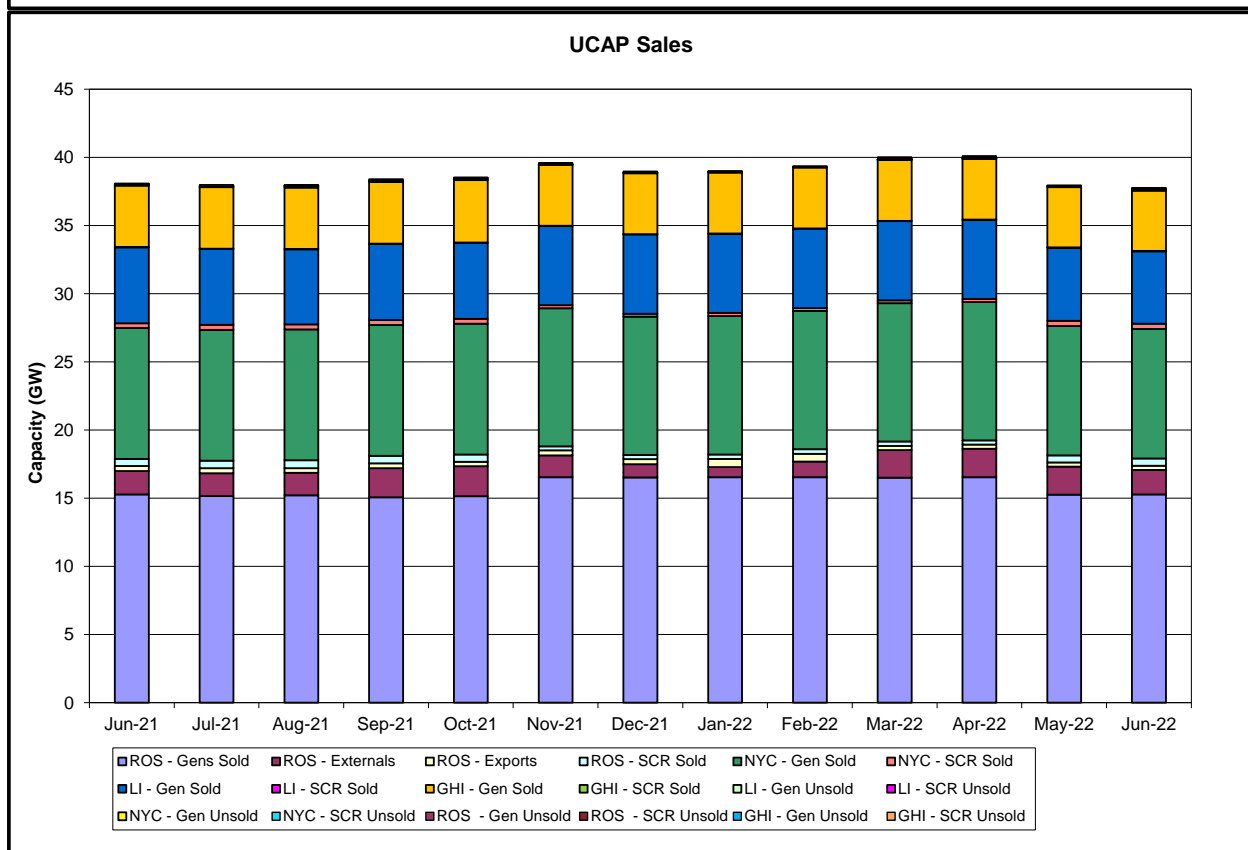
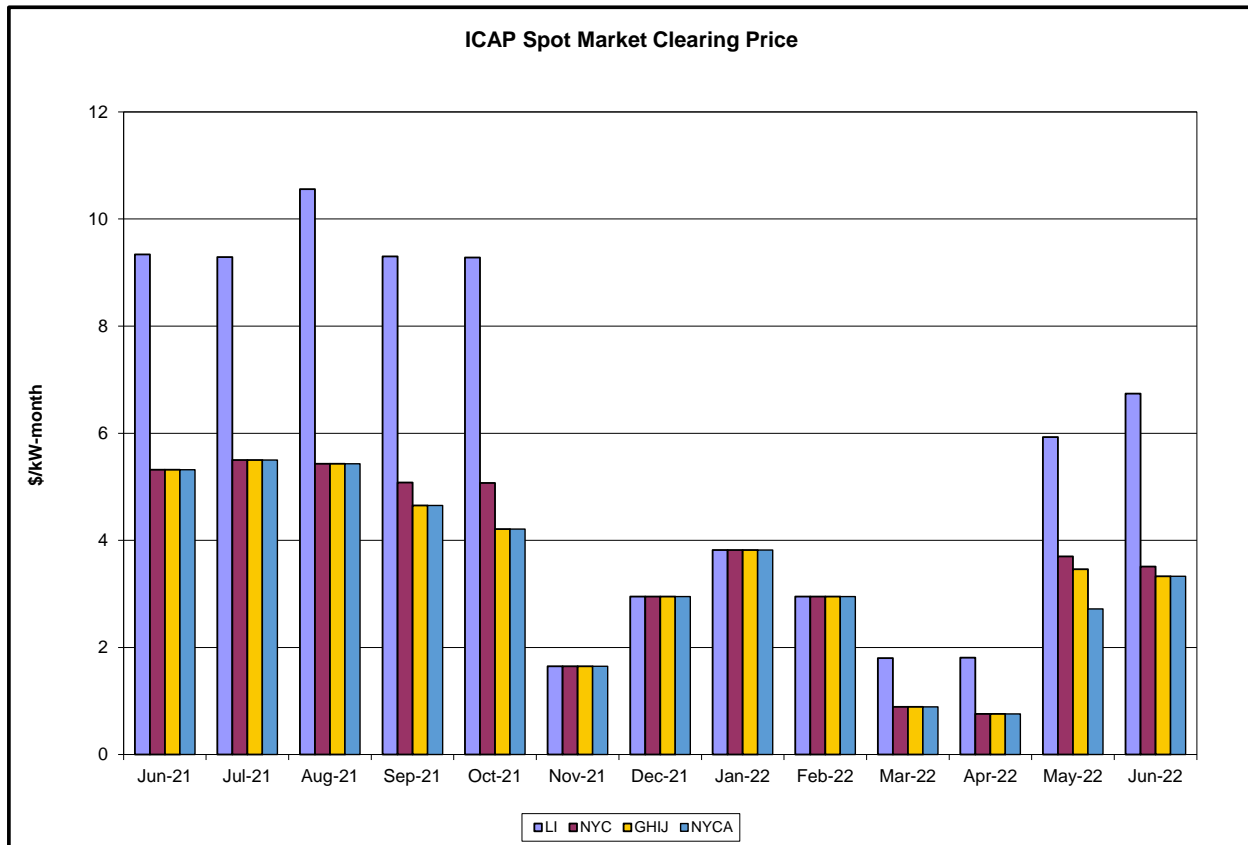










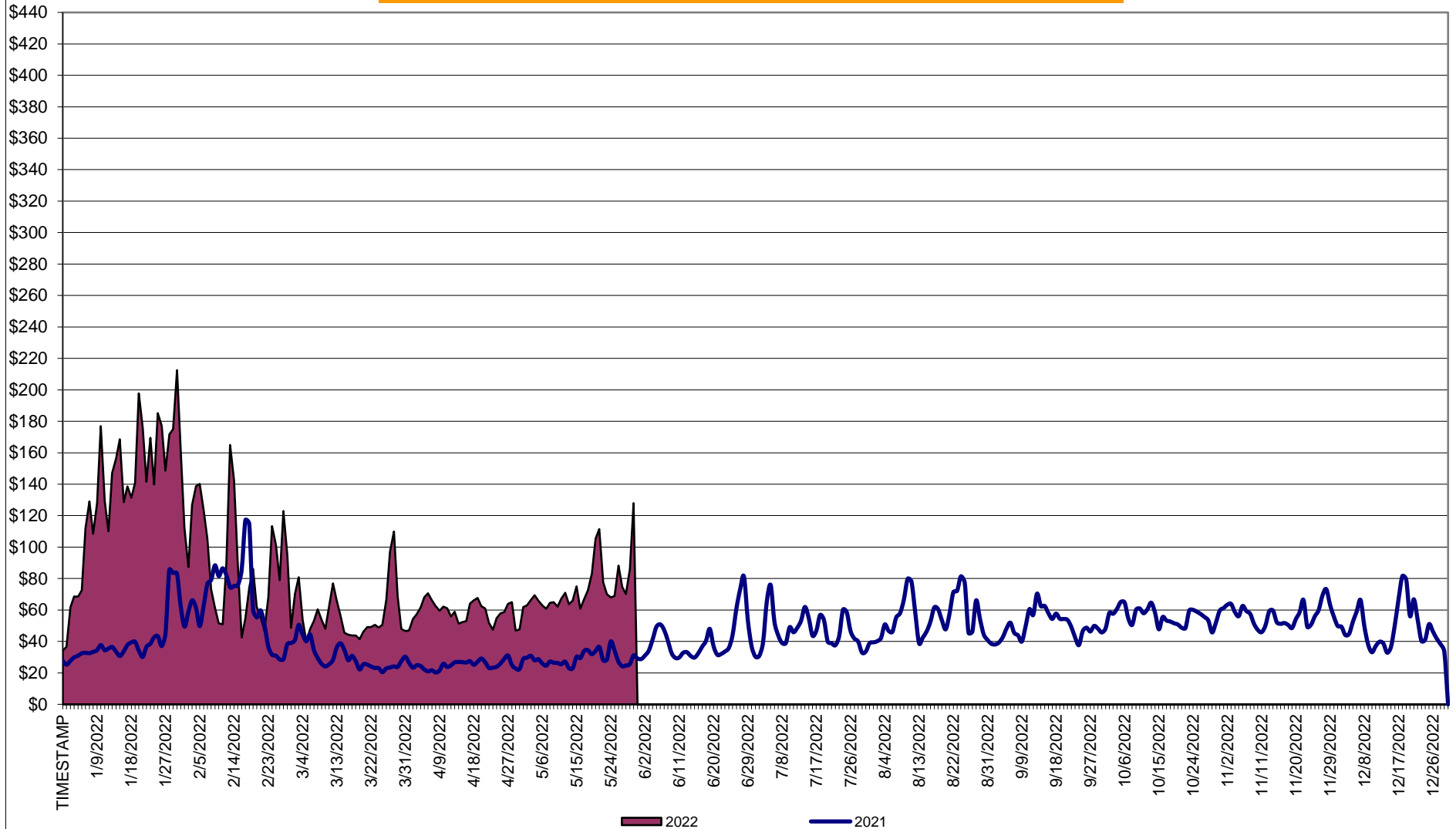


Market Performance Highlights

May 2022

- LBMP for May is \$70.60/MWh; higher than \$56.46/MWh in April 2022 and \$25.72/MWh in May 2021.
 - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are higher compared to April.
- May 2022 average year-to-date monthly cost of \$88.82/MWh is a 122% increase from \$40.10/MWh in May 2021.
- Average daily sendout is 372 GWh/day in May; higher than 359 GWh/day in April 2022 and 365 GWh/day in May 2021.
- Natural gas prices and distillate prices are higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$7.39/MMBtu, up from \$6.13/MMBtu in April.
 - Natural gas prices (Transco Z6 NY) are up 212.0% year-over-year.
 - Jet Kerosene Gulf Coast was \$29.17/MMBtu, up from \$28.51/MMBtu in April.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$32.97/MMBtu, up from \$28.26/MMBtu in April.
 - Distillate prices are up 127.5% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.05)/MWh; higher than (\$0.36)/MWh in April.
 - Local Reliability Share is \$0.60/MWh, higher than \$0.43/MWh in April.
 - Statewide Share is (\$0.65)/MWh, higher than (\$0.79)/MWh in April.
 - TSA \$ per NYC MWh is \$0.11/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than April.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*
2021 Annual Average \$47.59/MWh
May 2021 YTD Average \$40.10/MWh
May 2022 YTD Average \$88.82/MWh



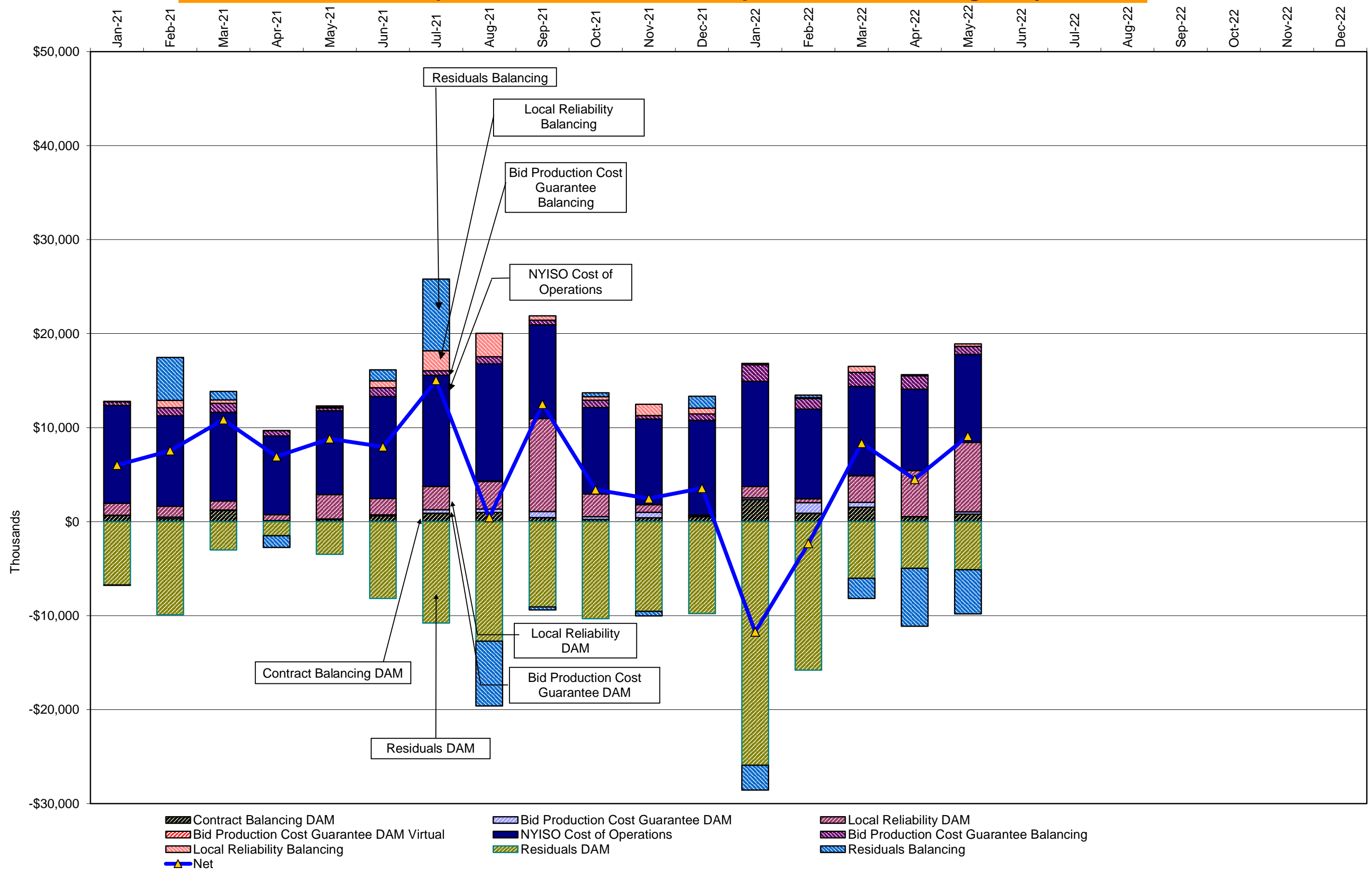
* Excludes ICAP payments.

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

| 2022 | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|---------------------------------|--------------------|---------------------|------------------|------------------|----------------|-----------------|-----------------|-------------------|----------------------|--------------------|---------------------|---------------------|
| LBMP | 134.79 | 94.06 | 56.78 | 56.46 | 70.60 | | | | | | | |
| NTAC | 1.43 | 0.95 | 1.48 | 1.17 | 2.46 | | | | | | | |
| Reserve | 1.26 | 1.21 | 0.83 | 0.81 | 0.74 | | | | | | | |
| Regulation | 0.27 | 0.19 | 0.17 | 0.12 | 0.13 | | | | | | | |
| NYISO Cost of Operations | 0.73 | 0.72 | 0.74 | 0.74 | 0.74 | | | | | | | |
| FERC Fee Recovery | 0.07 | 0.08 | 0.09 | 0.10 | 0.09 | | | | | | | |
| Uplift | (1.50) | (1.73) | (0.09) | (0.36) | (0.05) | | | | | | | |
| Uplift: Local Reliability Share | 0.09 | 0.04 | 0.27 | 0.43 | 0.60 | | | | | | | |
| Uplift: Statewide Share | (1.59) | (1.77) | (0.36) | (0.79) | (0.65) | | | | | | | |
| Voltage Support and Black Start | 0.42 | 0.41 | 0.43 | 0.43 | 0.43 | | | | | | | |
| Avg Monthly Cost | 137.41 | 95.82 | 60.34 | 59.38 | 75.07 | | | | | | | |
| Avg YTD Cost | 137.49 | 118.36 | 100.65 | 91.92 | 88.82 | | | | | | | |
| TSA \$ per NYC MWh | 0.00 | 2.98 | 0.00 | 0.00 | 0.11 | | | | | | | |
| 2021 | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| LBMP | 37.83 | 63.70 | 28.59 | 22.79 | 25.72 | 39.37 | 45.16 | 55.48 | 47.68 | 52.97 | 53.92 | 47.99 |
| NTAC | 1.35 | 1.20 | 1.26 | 1.54 | 2.09 | 2.05 | 2.01 | 1.37 | 1.23 | 1.67 | 2.03 | 1.40 |
| Reserve | 0.49 | 0.81 | 0.57 | 0.56 | 0.54 | 0.45 | 0.44 | 0.44 | 0.50 | 0.75 | 0.70 | 0.57 |
| Regulation | 0.07 | 0.13 | 0.09 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.09 | 0.13 | 0.15 | 0.11 |
| NYISO Cost of Operations | 0.74 | 0.74 | 0.74 | 0.74 | 0.76 | 0.76 | 0.76 | 0.76 | 0.75 | 0.74 | 0.75 | 0.73 |
| FERC Fee Recovery | 0.08 | 0.09 | 0.09 | 0.11 | 0.10 | 0.08 | 0.07 | 0.06 | 0.08 | 0.09 | 0.09 | 0.08 |
| Uplift | (0.31) | (0.15) | 0.11 | (0.12) | (0.19) | (0.50) | (0.09) | (0.81) | 0.00 | (0.59) | (0.58) | (0.48) |
| Uplift: Local Reliability Share | 0.09 | 0.15 | 0.11 | 0.06 | 0.22 | 0.17 | 0.30 | 0.33 | 0.78 | 0.23 | 0.16 | 0.05 |
| Uplift: Statewide Share | (0.40) | (0.30) | 0.00 | (0.18) | (0.41) | (0.68) | (0.39) | (1.14) | (0.78) | (0.81) | (0.74) | (0.53) |
| Voltage Support and Black Start | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.43 | 0.44 | 0.42 |
| Avg Monthly Cost | 40.61 | 66.87 | 31.81 | 26.06 | 29.45 | 42.65 | 48.79 | 57.73 | 50.70 | 56.11 | 57.43 | 50.76 |
| Avg YTD Cost | 40.69 | 52.99 | 46.57 | 42.41 | 40.10 | 40.59 | 42.05 | 44.63 | 45.34 | 46.35 | 47.29 | 47.59 |
| TSA \$ per NYC MWh | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 0.90 | 0.93 | 0.24 | 0.56 | 0.39 | 0.10 | 0.00 |

* Excludes ICAP payments.
Market Mitigation and Analysis
Prepared: 6/9/2022 10:20 AM

NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through May 31, 2022



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

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

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

NYISO Markets Transactions

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

2021

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

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

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

Notes: Percent totals may not equal 100% due to rounding.

Virtual Transactions are not reflected in this chart.

NYISO Markets 2022 Energy Statistics

| | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|--|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | | |
| Price * | \$124.39 | \$85.98 | \$52.41 | \$55.23 | \$66.11 | | | | | | | |
| Standard Deviation | \$51.94 | \$39.56 | \$18.64 | \$11.05 | \$21.60 | | | | | | | |
| Load Weighted Price ** | \$128.16 | \$88.17 | \$53.69 | \$55.96 | \$69.05 | | | | | | | |
| <u>RTC LBMP</u> | | | | | | | | | | | | |
| Price * | \$127.16 | \$85.48 | \$57.58 | \$57.33 | \$68.27 | | | | | | | |
| Standard Deviation | \$77.62 | \$55.20 | \$38.62 | \$21.09 | \$42.87 | | | | | | | |
| Load Weighted Price ** | \$130.45 | \$88.33 | \$59.03 | \$58.49 | \$72.67 | | | | | | | |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | | |
| Price * | \$130.43 | \$83.85 | \$57.00 | \$54.45 | \$65.07 | | | | | | | |
| Standard Deviation | \$93.35 | \$57.99 | \$44.52 | \$20.46 | \$33.01 | | | | | | | |
| Load Weighted Price ** | \$133.98 | \$86.99 | \$58.64 | \$55.57 | \$68.60 | | | | | | | |
| Average Daily Energy Sendout/Month GWh | 451 | 429 | 390 | 359 | 372 | | | | | | | |

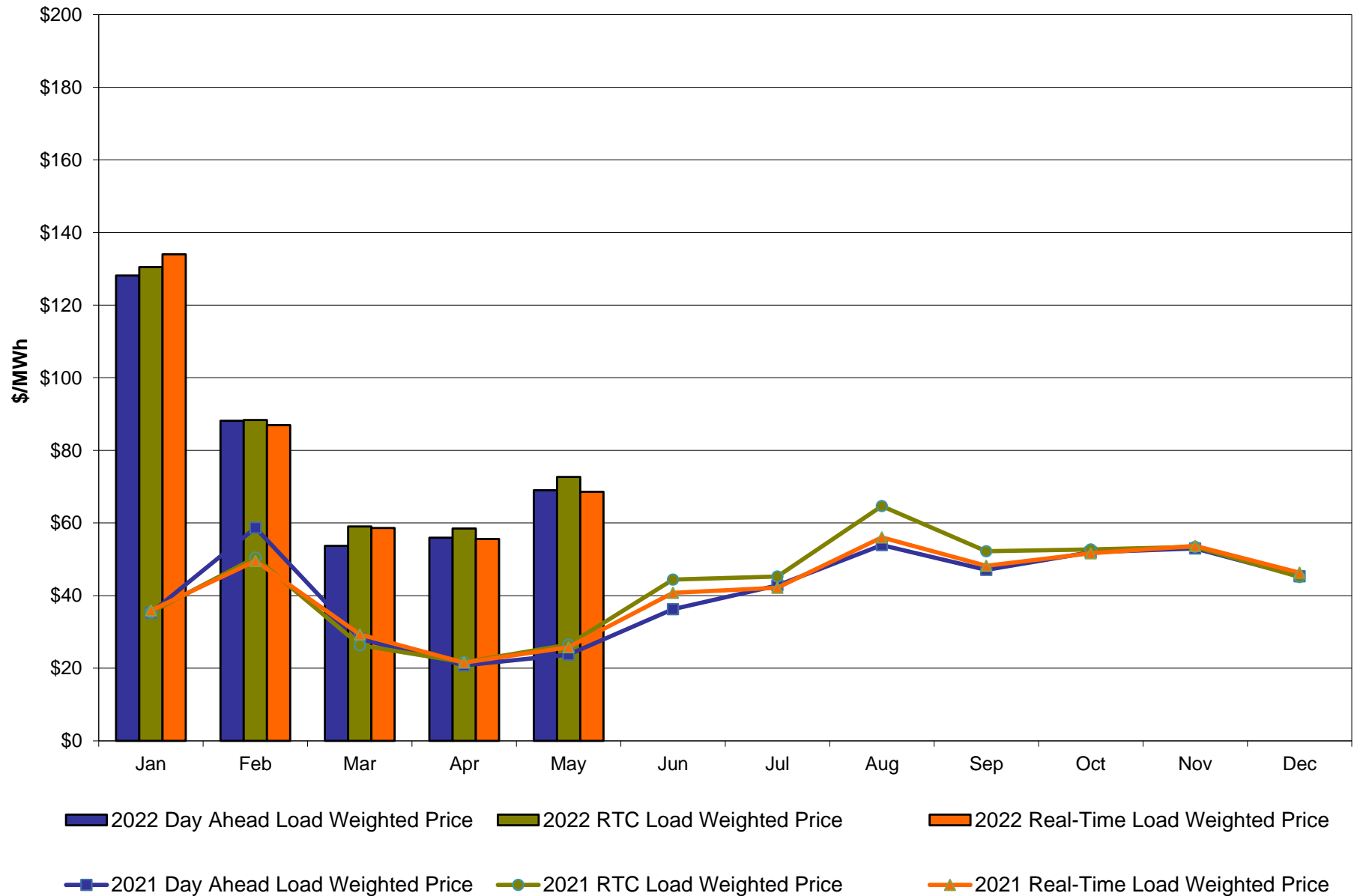
NYISO Markets 2021 Energy Statistics

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

* Average zonal load weighted prices.

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

NYISO Monthly Average Internal LBMPs 2021 - 2022

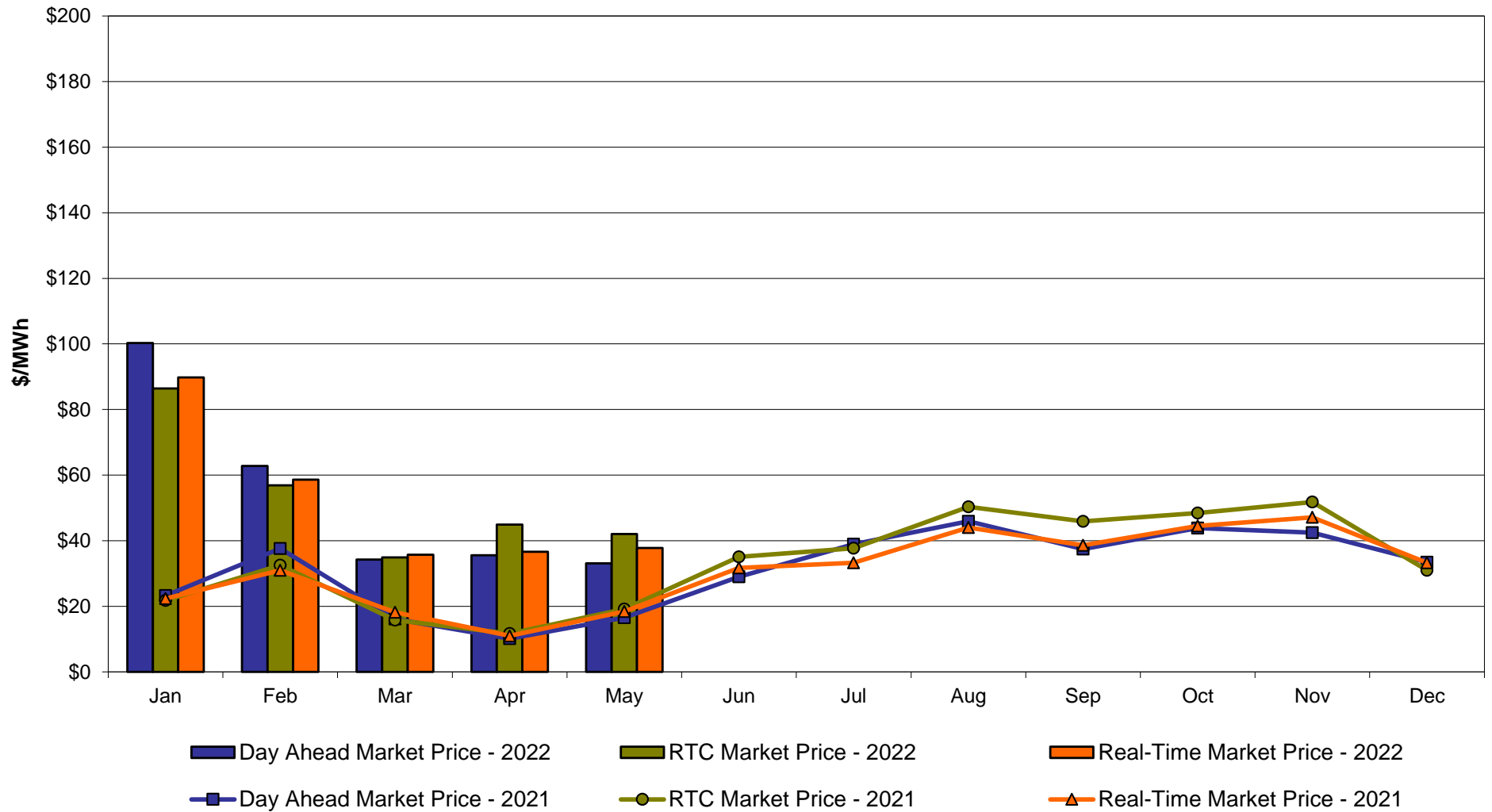


May 2022 Zonal LBMP Statistics for NYISO (\$/MWh)

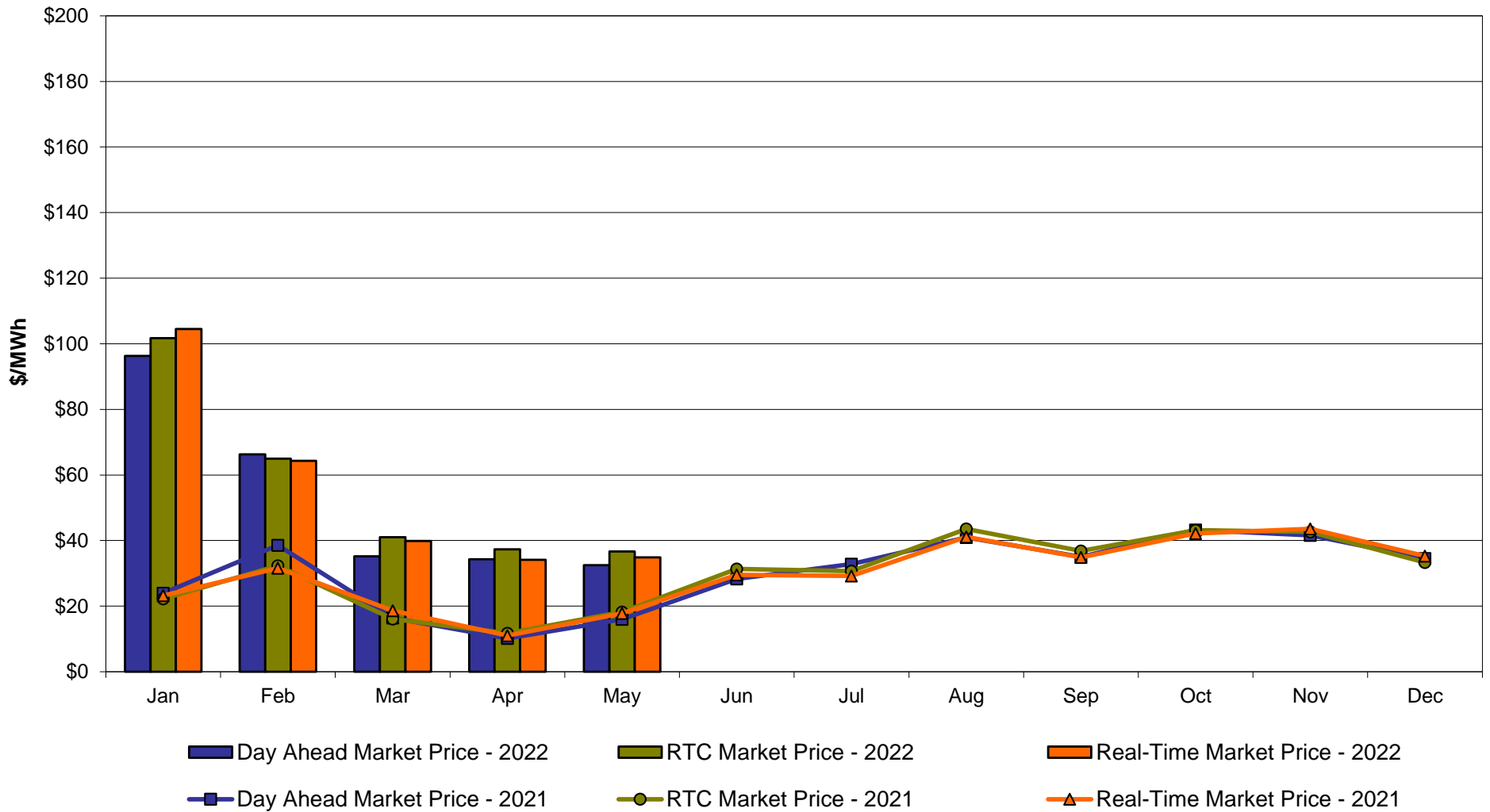
| | <u>WEST Zone A</u> | <u>GENESEE Zone B</u> | <u>NORTH Zone D</u> | <u>CENTRAL Zone C</u> | <u>MOHAWK VALLEY Zone E</u> | <u>CAPITAL Zone F</u> | <u>HUDSON VALLEY Zone G</u> | <u>MILLWOOD Zone H</u> | <u>DUNWOODIE Zone I</u> | <u>NEW YORK CITY Zone J</u> | <u>LONG ISLAND Zone K</u> |
|------------------------------|--|---|---|----------------------------------|--|---|--|---|--|--|--|
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 33.10 | 30.20 | 17.88 | 32.52 | 32.58 | 97.86 | 77.00 | 78.48 | 78.30 | 78.58 | 97.58 |
| Standard Deviation | 20.21 | 19.69 | 17.10 | 19.28 | 19.11 | 27.05 | 21.21 | 21.85 | 21.78 | 21.79 | 38.51 |
| <u>RTC LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 42.03 | 33.46 | 23.08 | 36.71 | 35.88 | 92.76 | 77.35 | 79.00 | 79.01 | 79.41 | 101.43 |
| Standard Deviation | 59.82 | 38.19 | 40.80 | 37.10 | 37.47 | 39.34 | 35.16 | 35.34 | 36.37 | 36.66 | 111.90 |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 37.76 | 32.49 | 21.91 | 34.88 | 34.57 | 90.16 | 75.35 | 77.10 | 77.08 | 77.53 | 92.21 |
| Standard Deviation | 45.37 | 33.84 | 38.02 | 33.02 | 33.17 | 38.57 | 29.88 | 30.62 | 30.84 | 30.99 | 85.97 |
| | <u>ONTARIO IESO Zone O</u> | <u>HYDRO QUEBEC (Wheel) Zone M</u> | <u>HYDRO QUEBEC (Import/Export) Zone M</u> | <u>PJM Zone P</u> | <u>NEW ENGLAND Zone N</u> | <u>CROSS SOUND CABLE Controllable Line</u> | <u>NORTHPORT- NORWALK Controllable Line</u> | <u>NEPTUNE Controllable Line</u> | <u>LINDEN VFT Controllable Line</u> | <u>HUDSON Controllable Line</u> | <u>Dennison Controllable Line</u> |
| <u>DAY AHEAD LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 30.03 | 20.16 | 20.16 | 58.89 | 82.07 | 97.47 | 84.52 | 96.91 | 77.59 | 78.35 | 16.49 |
| Standard Deviation | 18.10 | 20.11 | 20.11 | 17.63 | 22.98 | 38.31 | 23.35 | 38.66 | 19.19 | 21.75 | 16.10 |
| <u>RTC LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 34.15 | 13.72 | 13.72 | 65.72 | 79.58 | 100.83 | 96.21 | 99.53 | 76.87 | 75.82 | 22.40 |
| Standard Deviation | 34.86 | 28.62 | 28.62 | 35.14 | 26.97 | 110.07 | 92.04 | 103.03 | 34.60 | 37.55 | 40.73 |
| <u>REAL TIME LBMP</u> | | | | | | | | | | | |
| Unweighted Price * | 34.15 | 15.71 | 15.71 | 63.56 | 78.72 | 91.74 | 79.11 | 90.14 | 73.71 | 77.00 | 18.45 |
| Standard Deviation | 47.83 | 29.00 | 29.00 | 29.28 | 34.32 | 86.50 | 73.18 | 72.05 | 23.13 | 30.57 | 36.06 |

* Straight LBMP averages

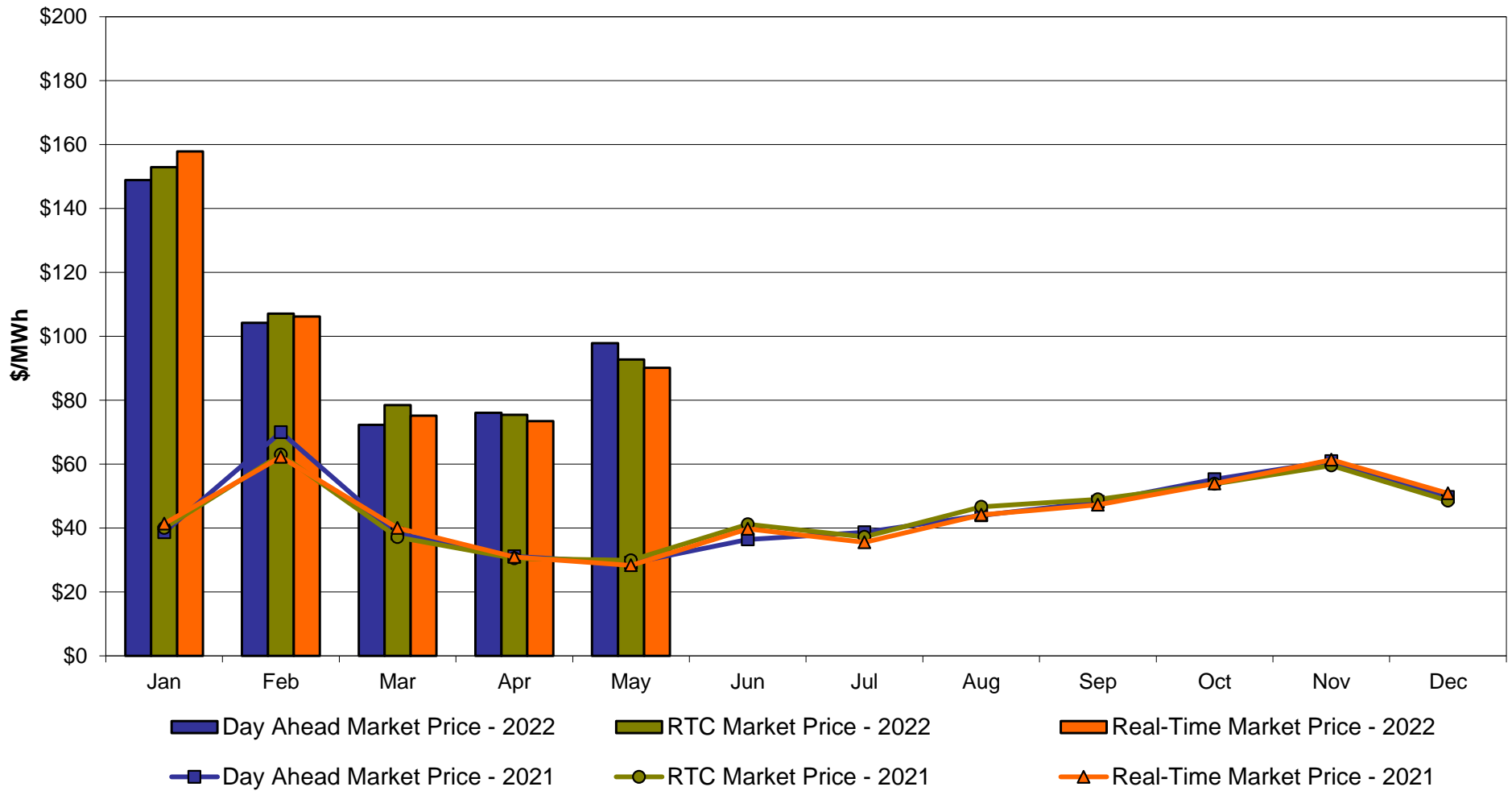
West Zone A Monthly Average LBMP Prices 2021 - 2022



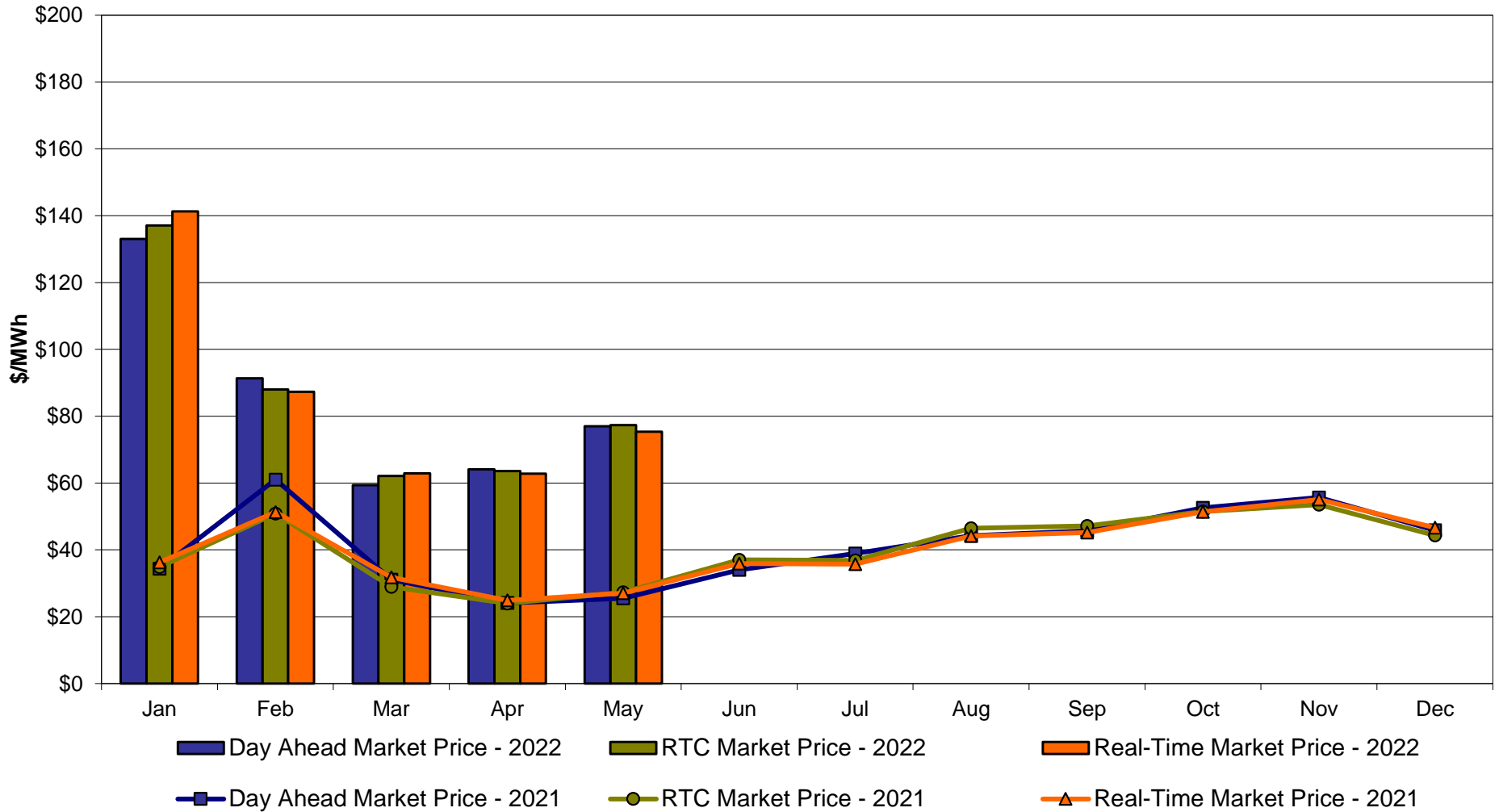
Central Zone C Monthly Average LBMP Prices 2020 - 2021



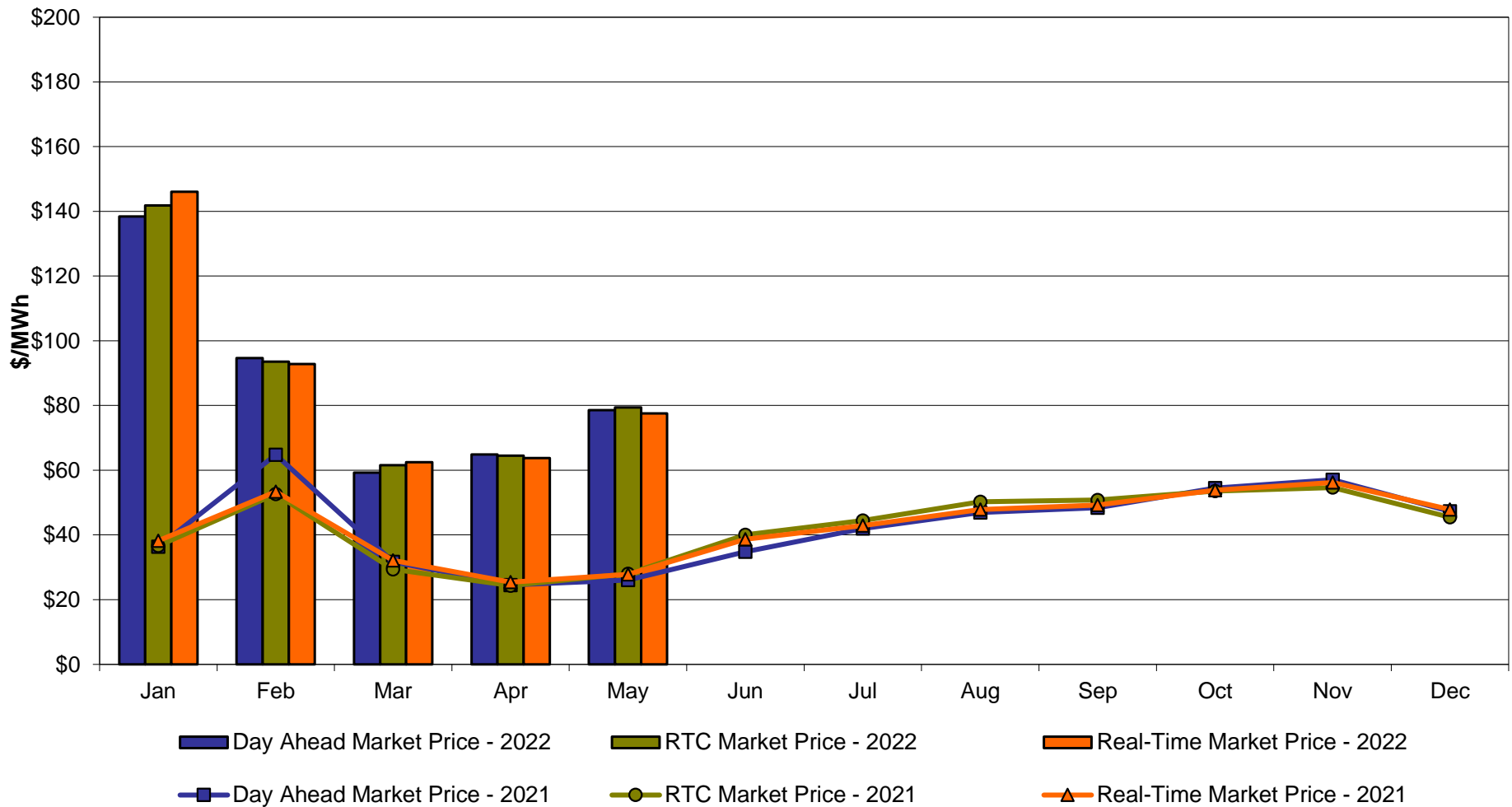
Capital Zone F **Monthly Average LBMP Prices 2021 - 2022**



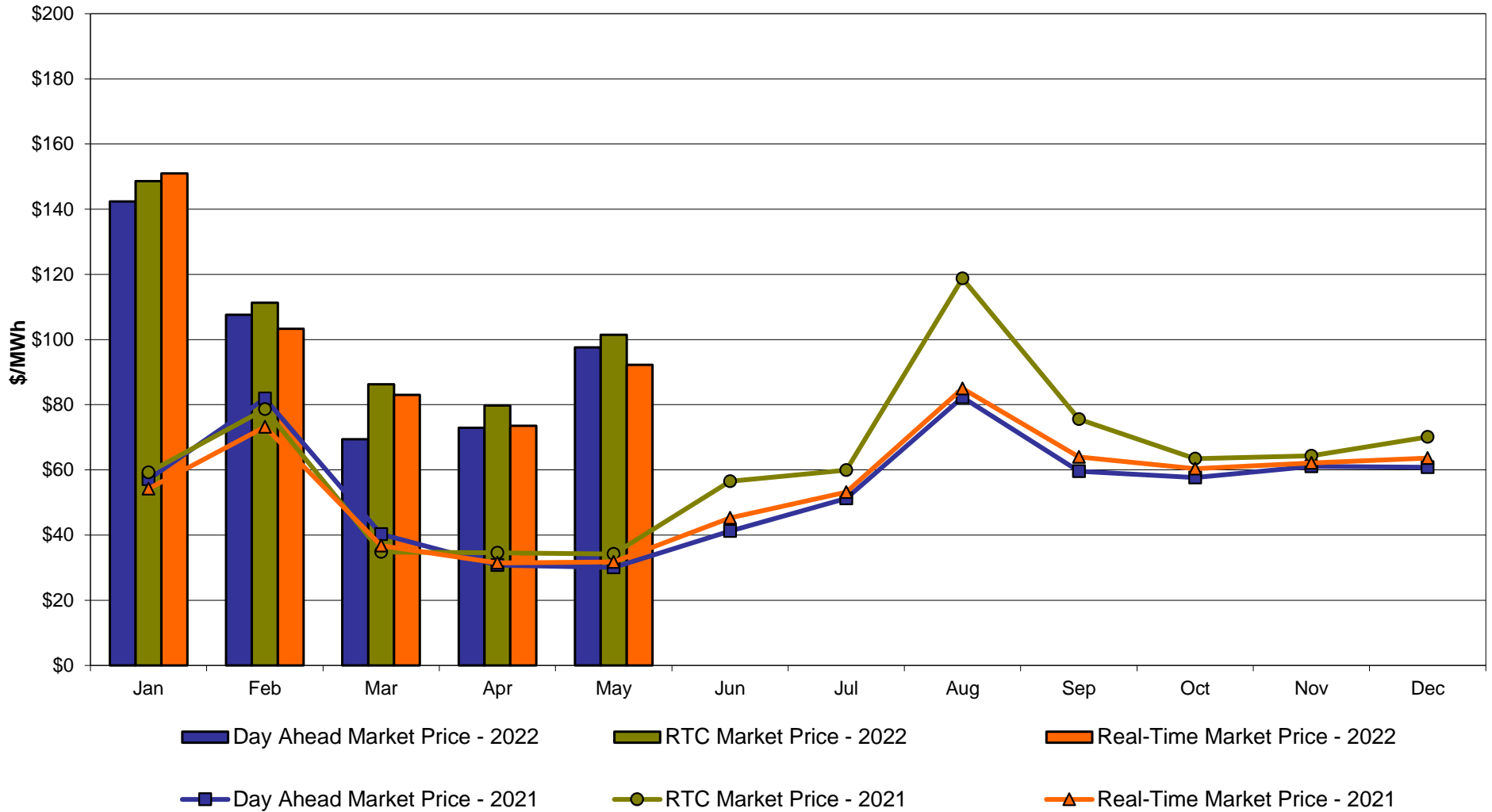
Hudson Valley Zone G Monthly Average LBMP Prices 2020 - 2021

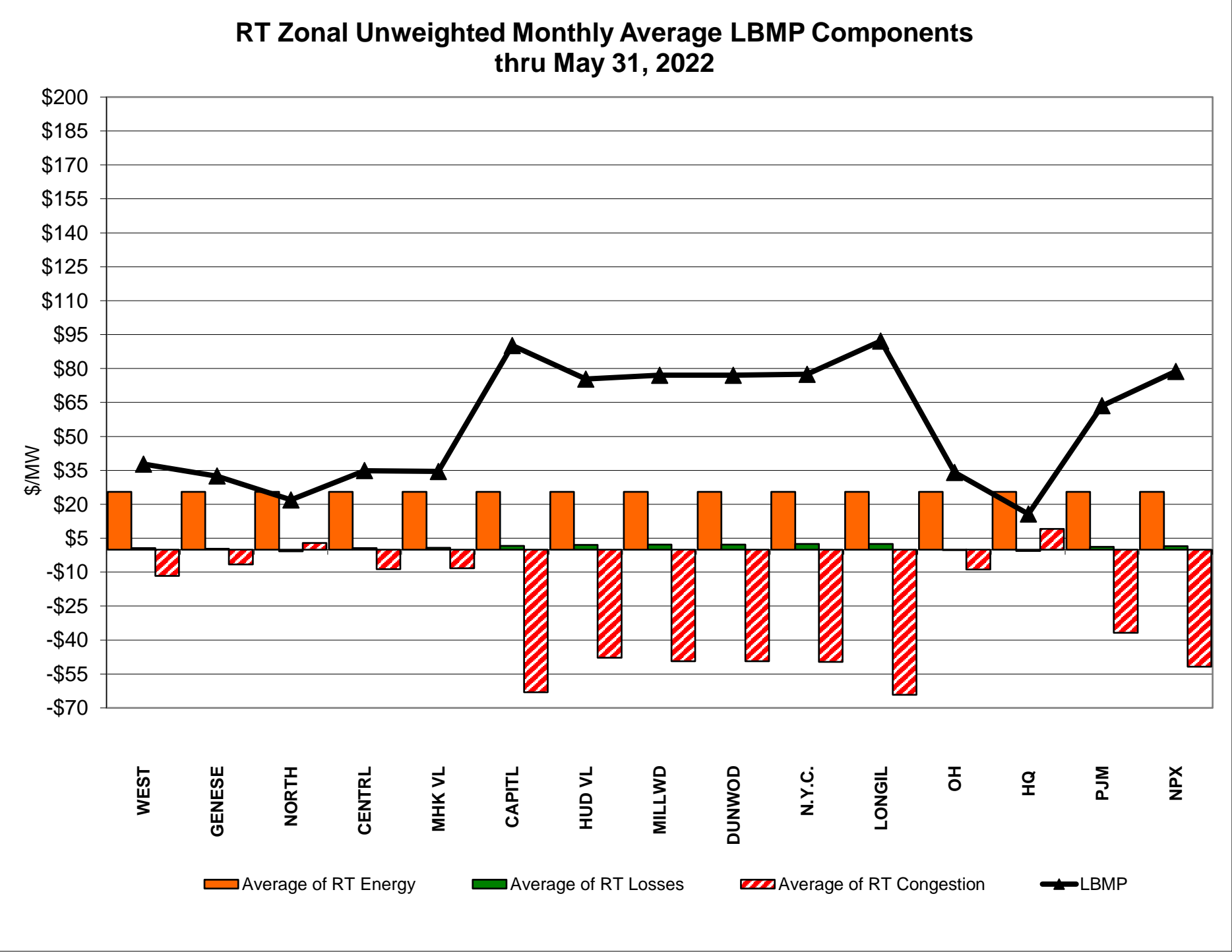
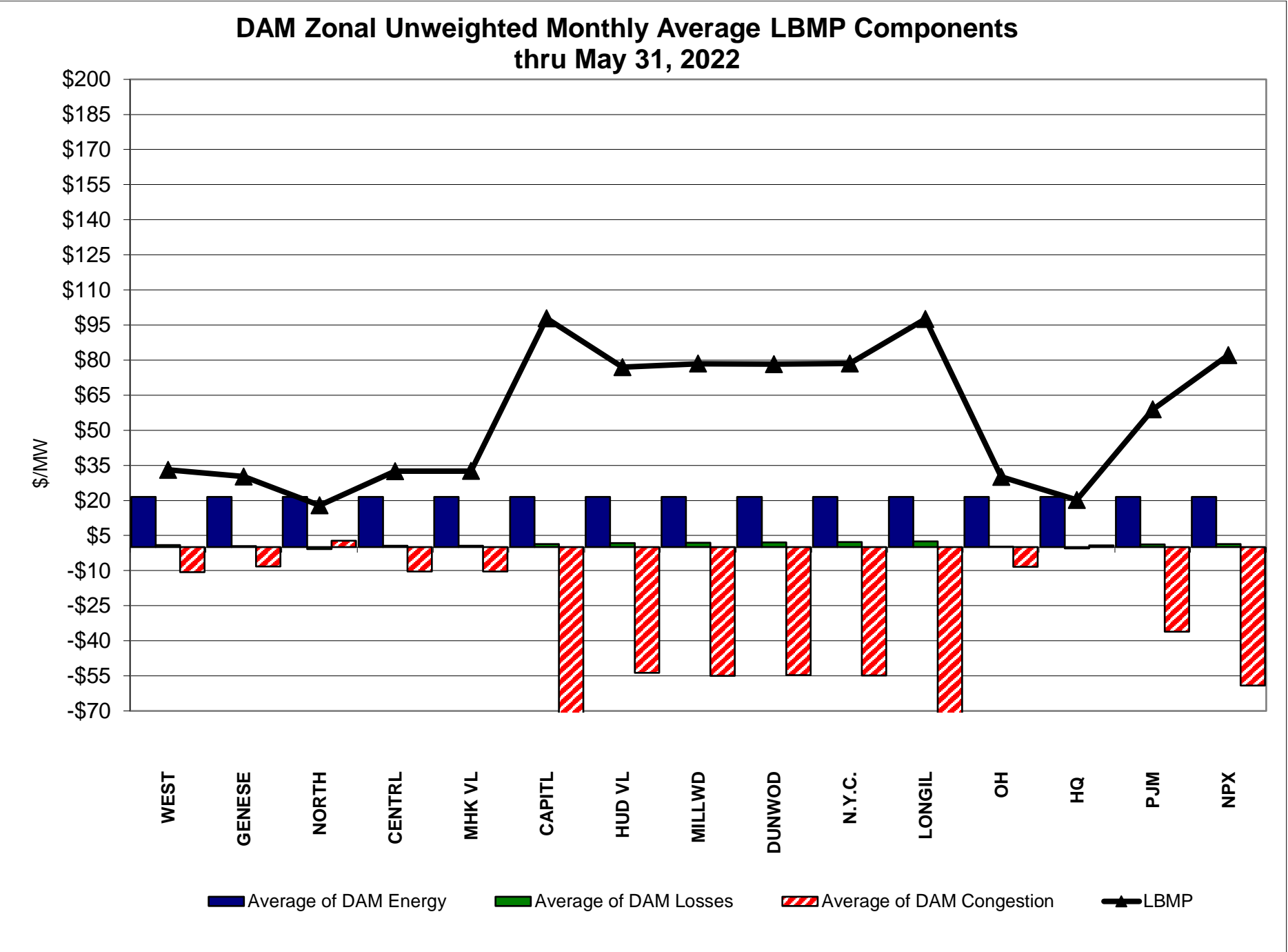


NYC Zone J Monthly Average LBMP Prices 2021 - 2022

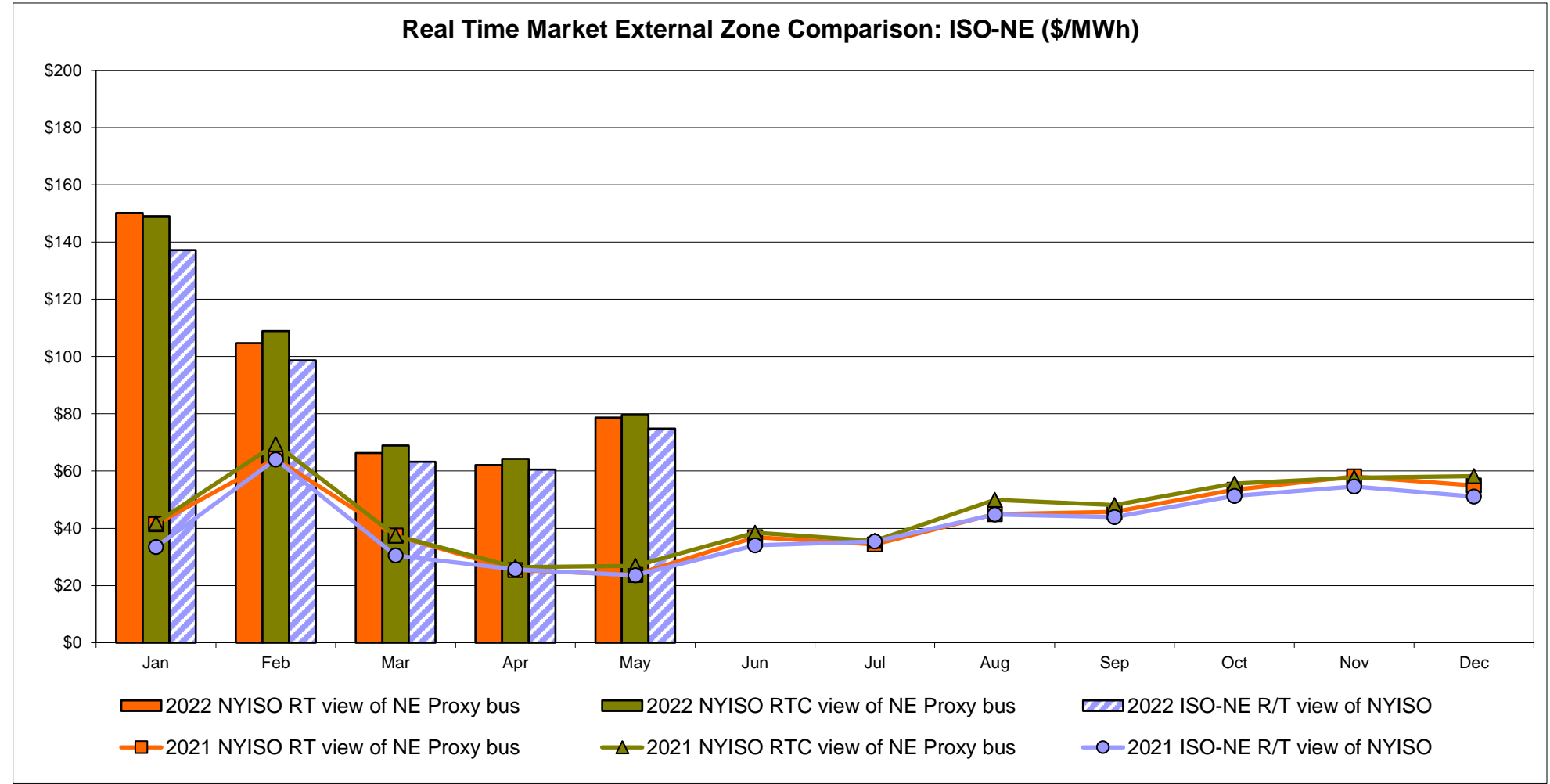
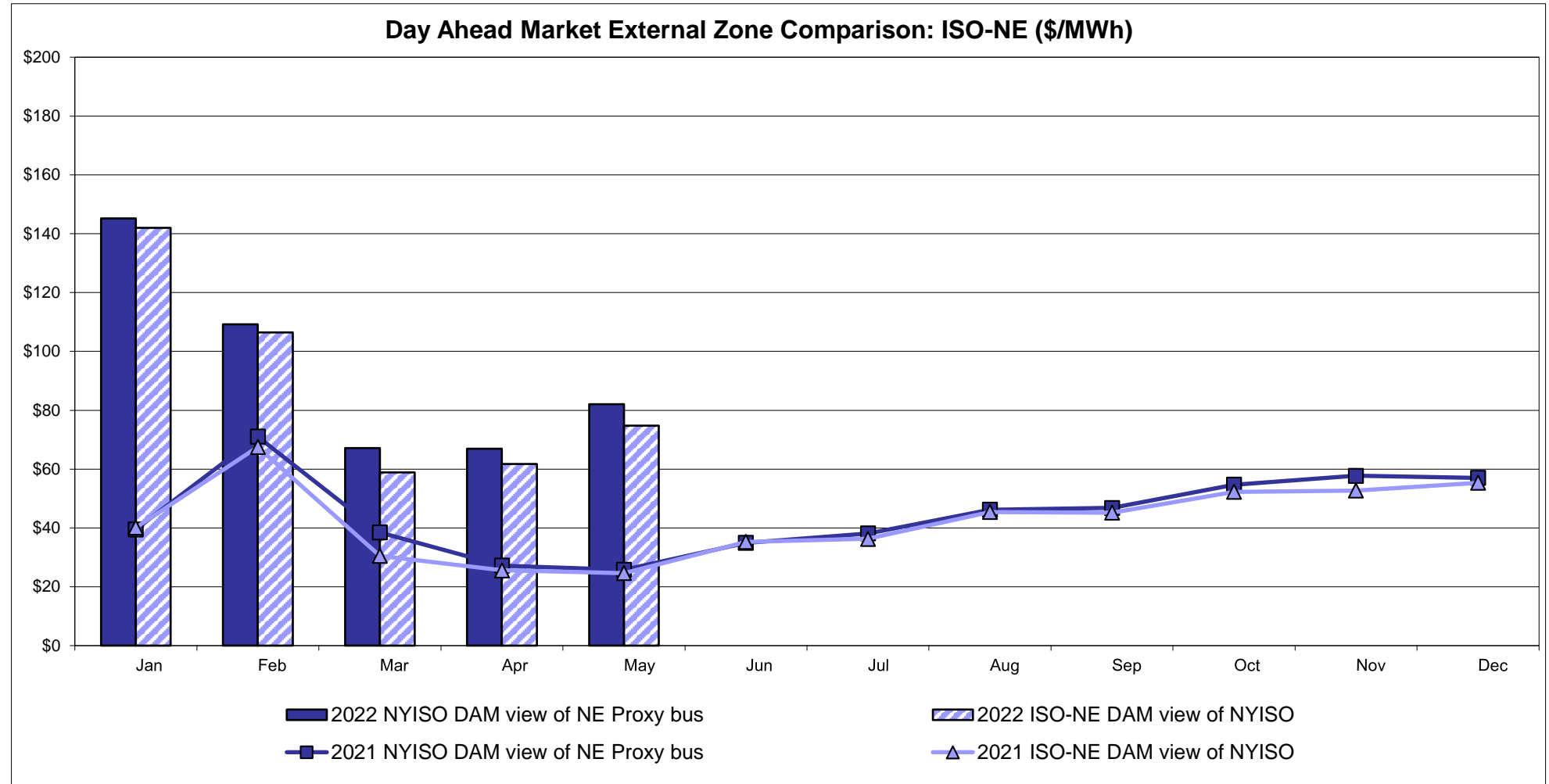


Long Island Zone K Monthly Average LBMP Prices 2020 - 2021



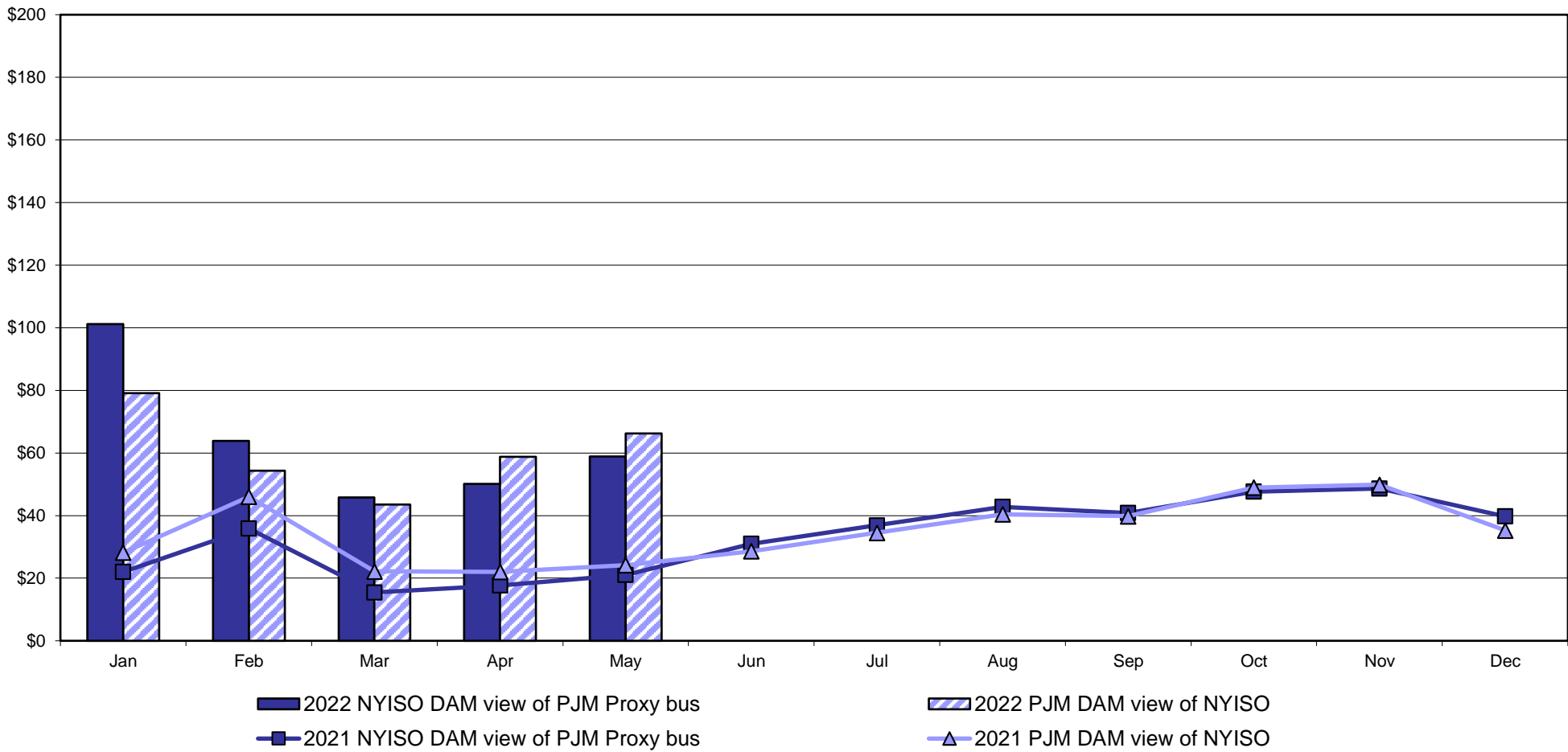


External Comparison ISO-New England

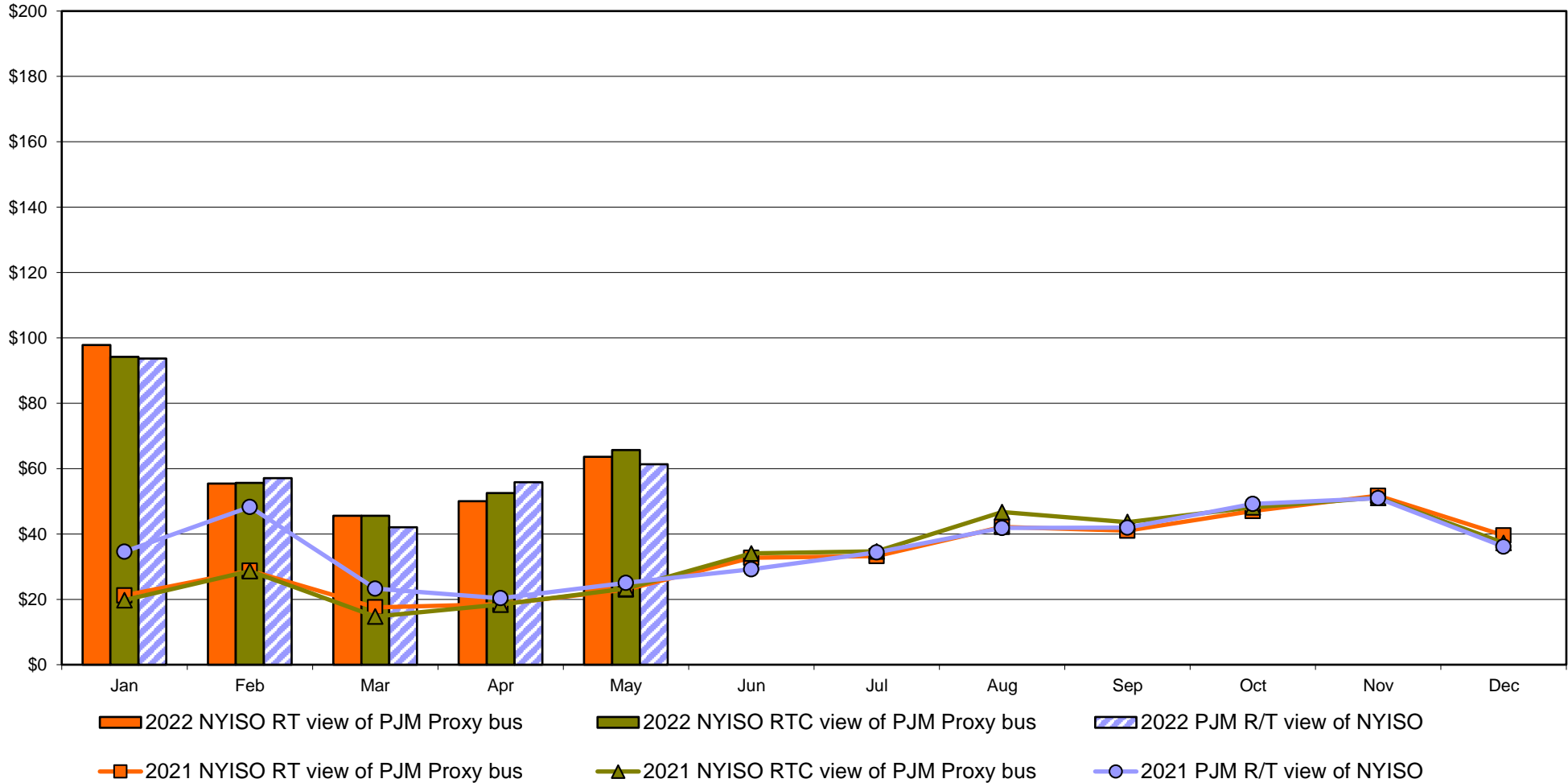


External Comparison PJM

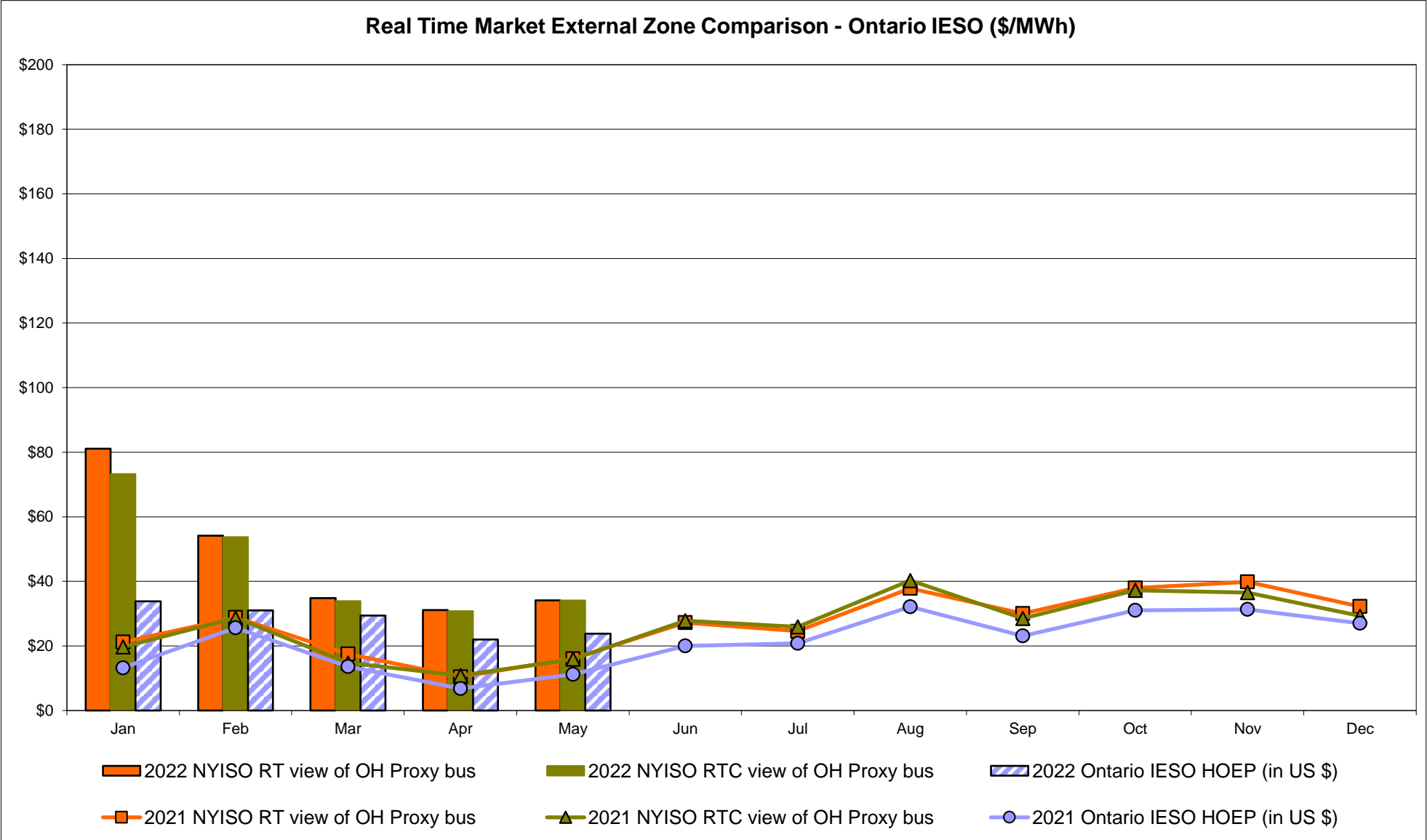
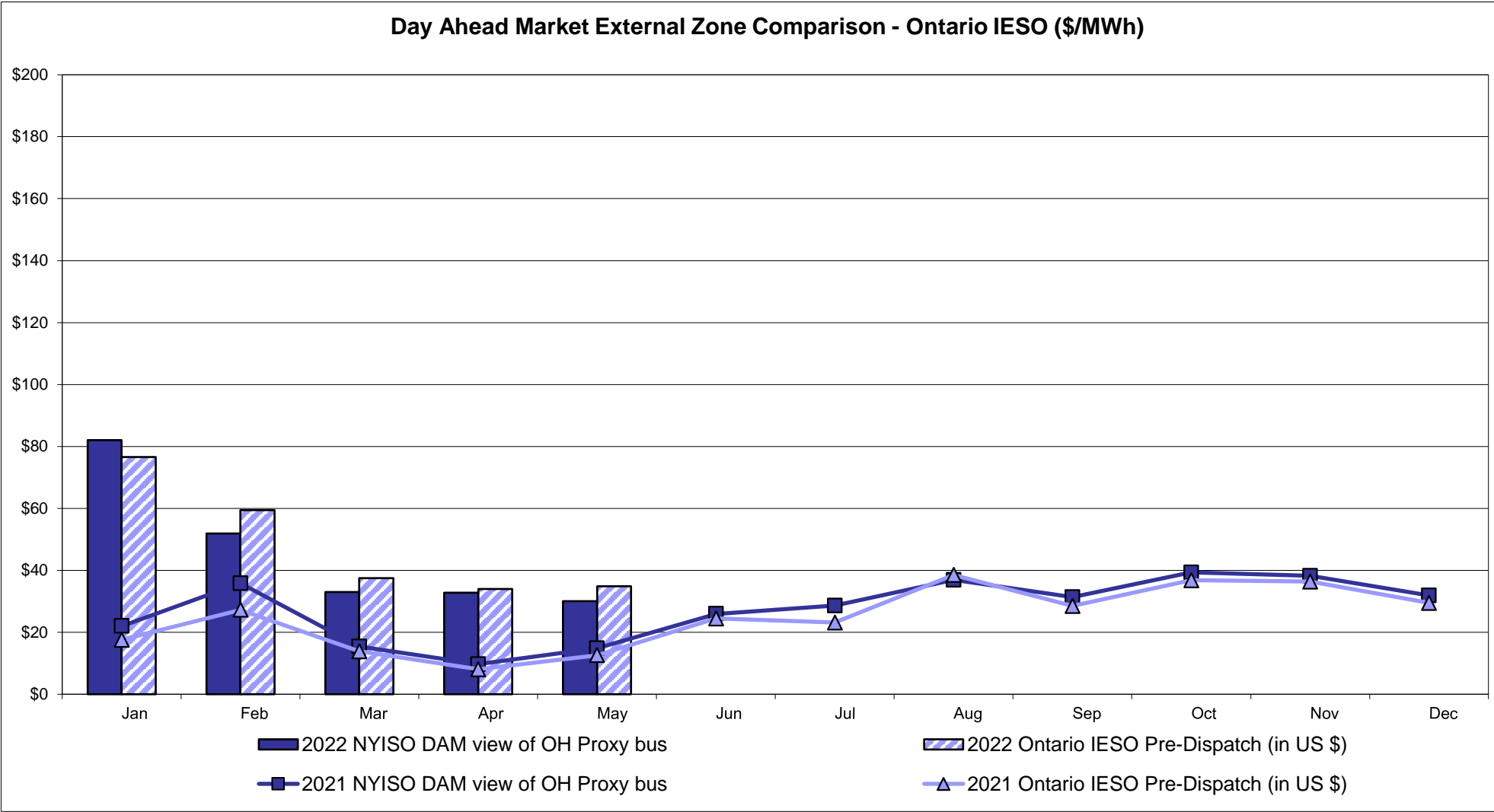
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

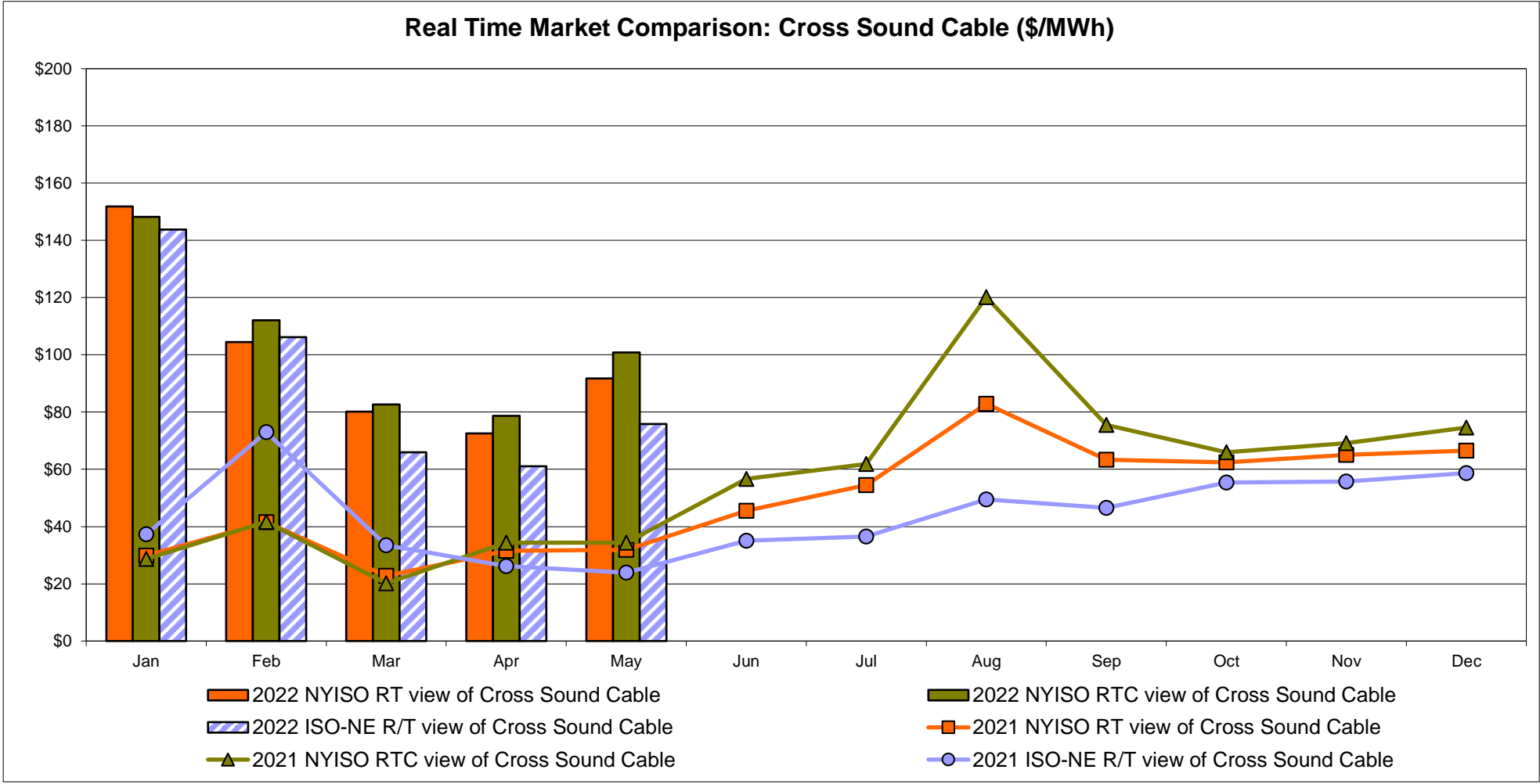
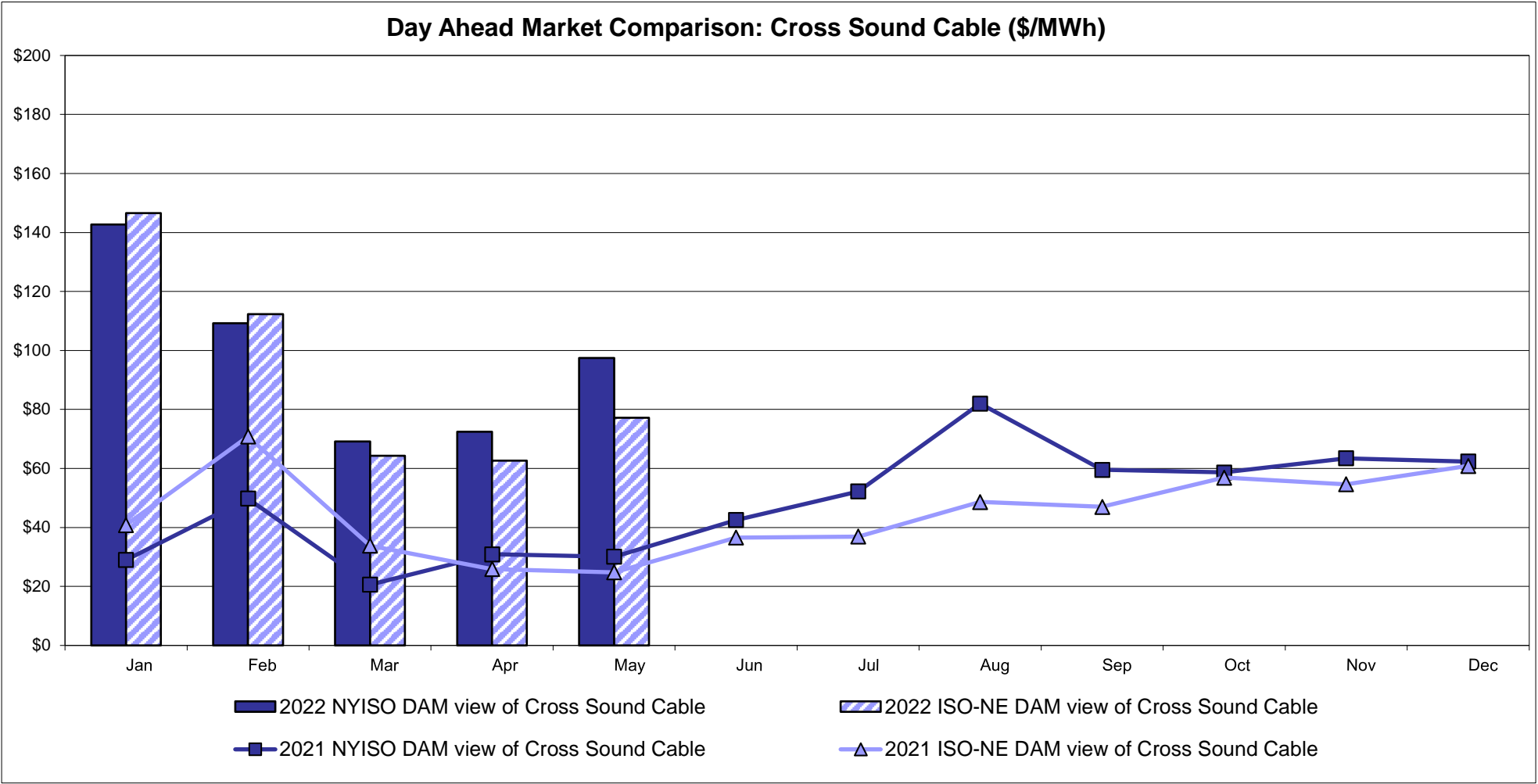


External Comparison Ontario IESO



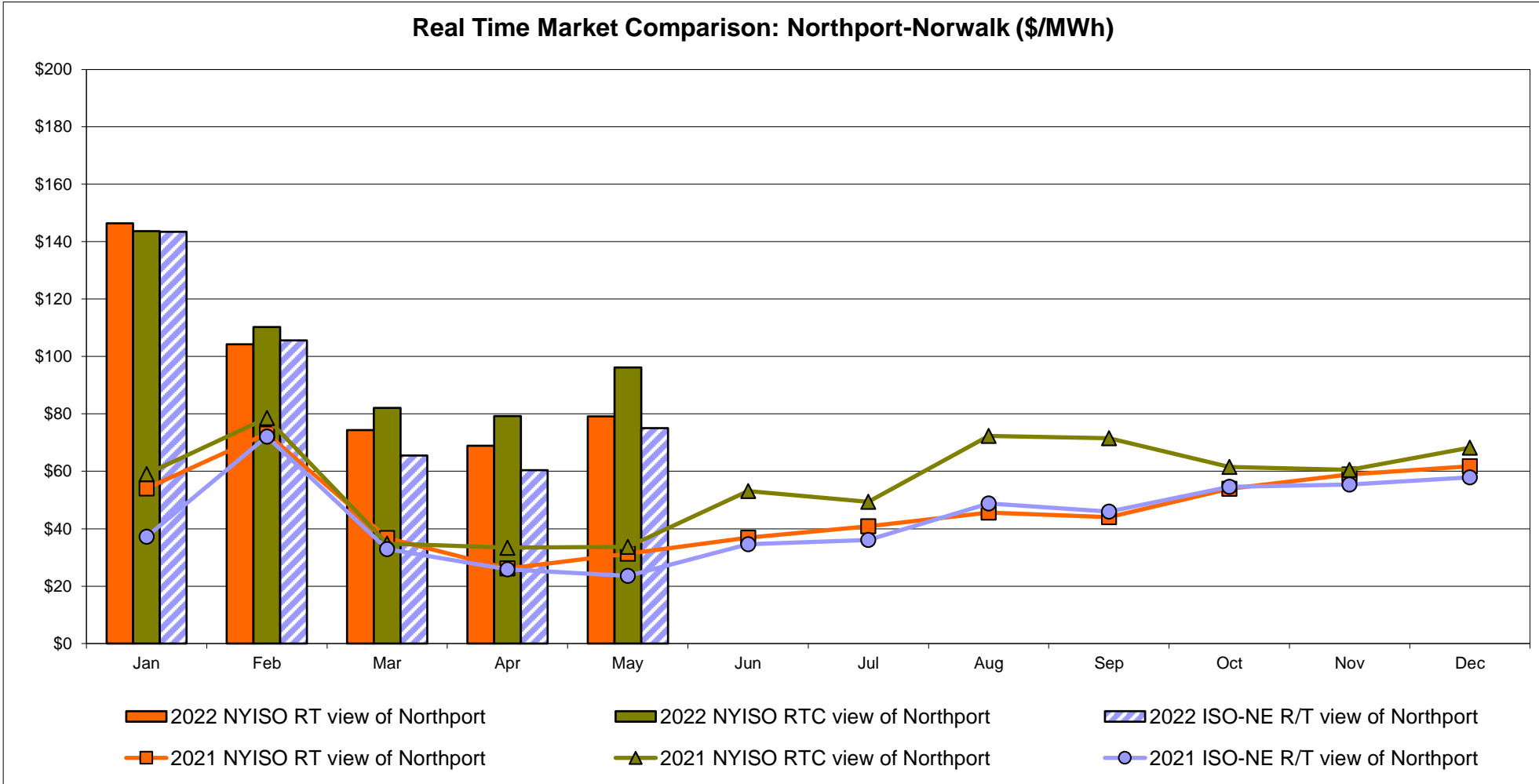
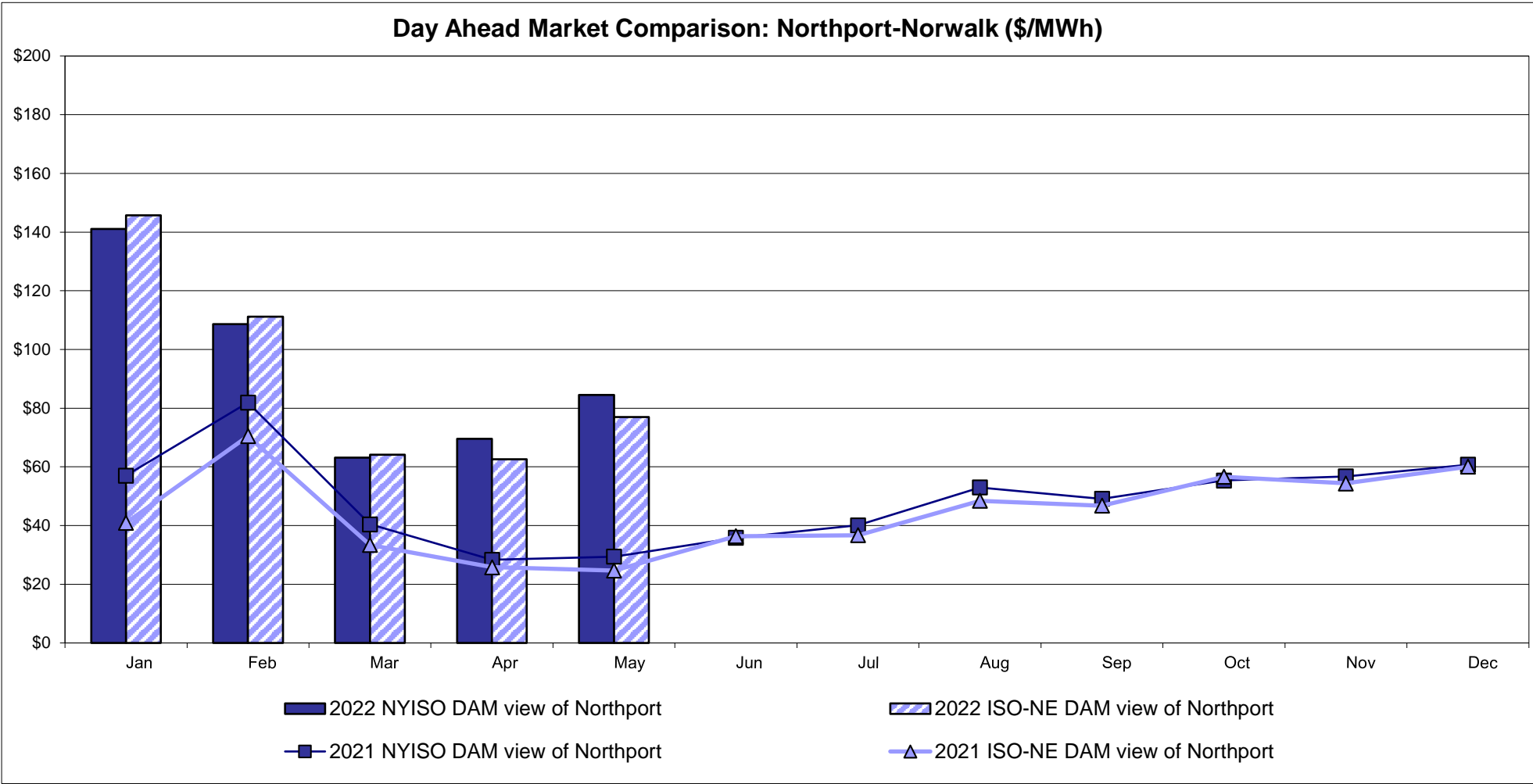
Notes: Exchange factor used for May 2022 was 0.777665448324131 to US
HOEP: Hourly Ontario Energy Price
Pre-Dispatch: Projected Energy Price

External Controllable Line: Cross Sound Cable (New England)



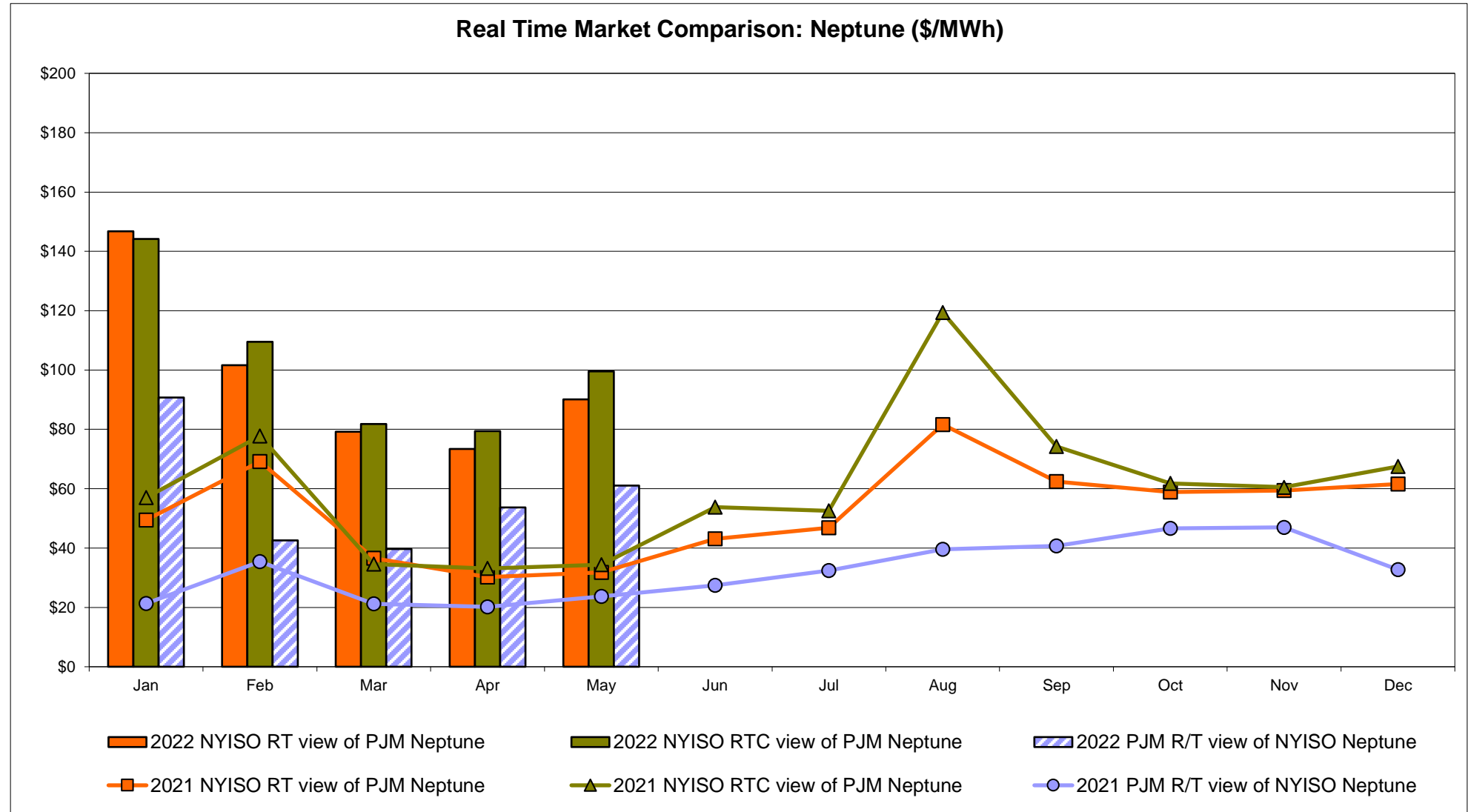
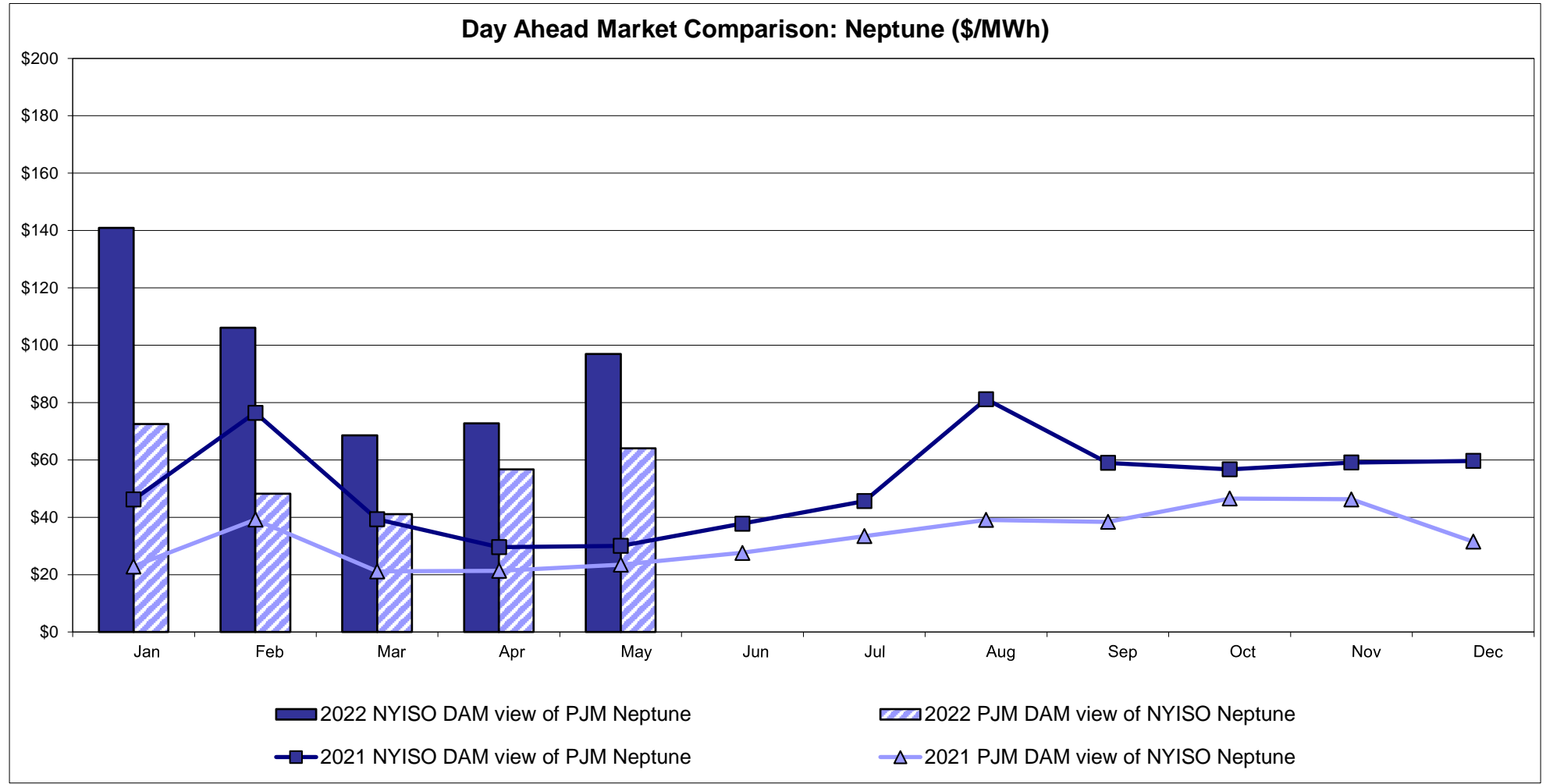
Note:
ISO-NE Forecast is an advisory posting @ 18:00 day before.
The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.
The DAM and R/T prices at the CSC interface are used for NYISO.

External Controllable Line: Northport - Norwalk (New England)

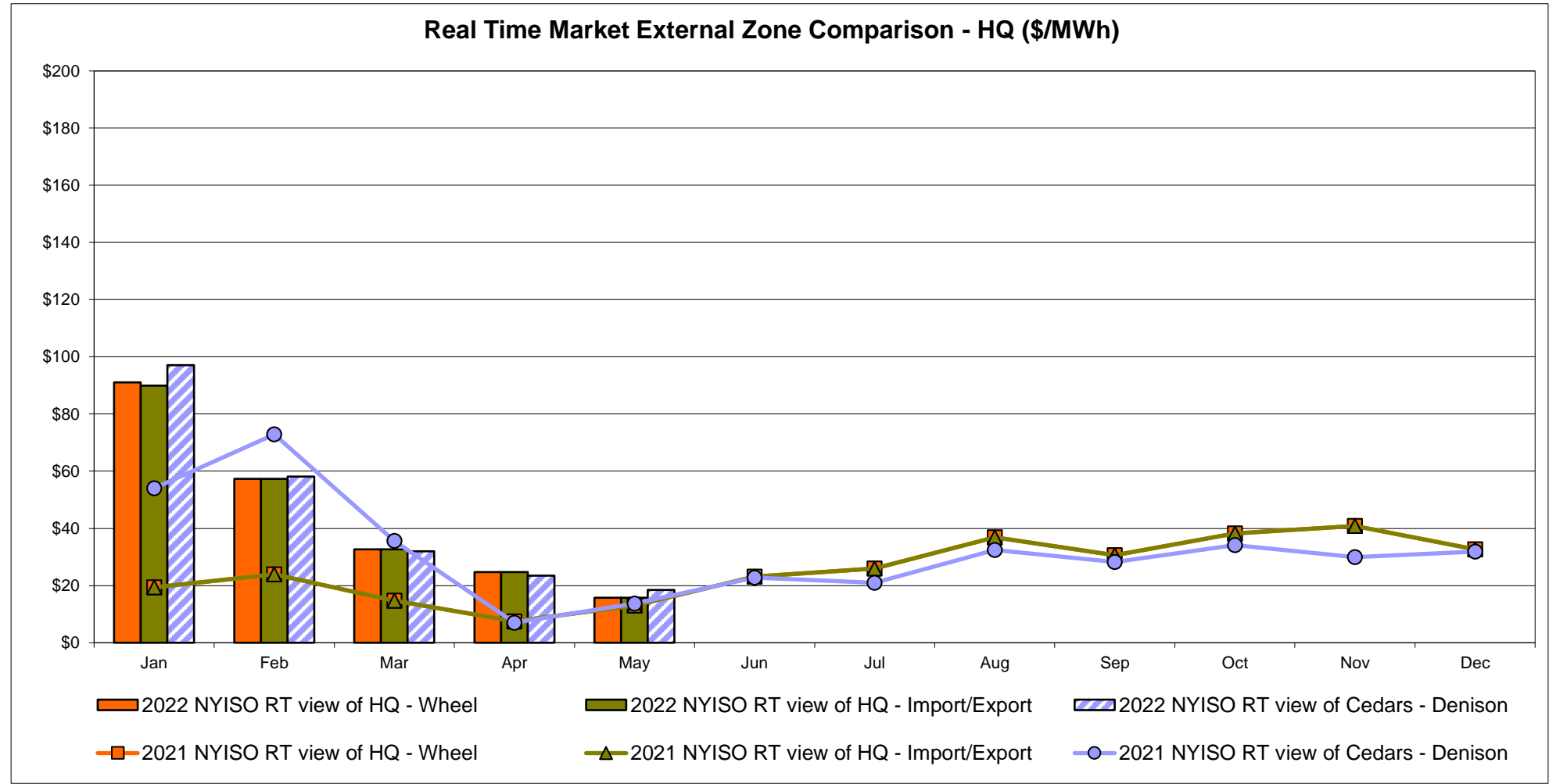
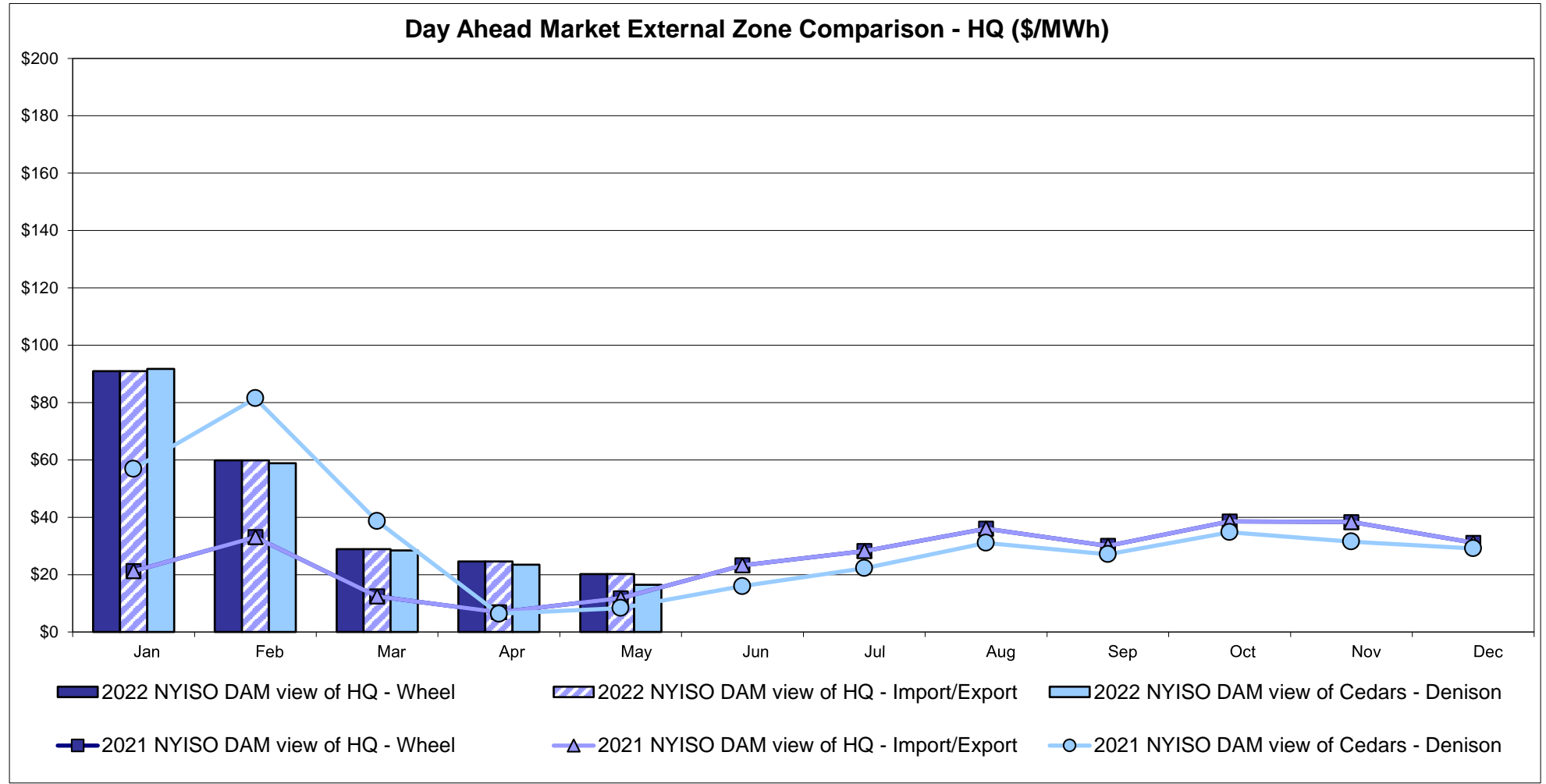


Note:
ISO-NE Forecast is an advisory posting @ 18:00 day before.
The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

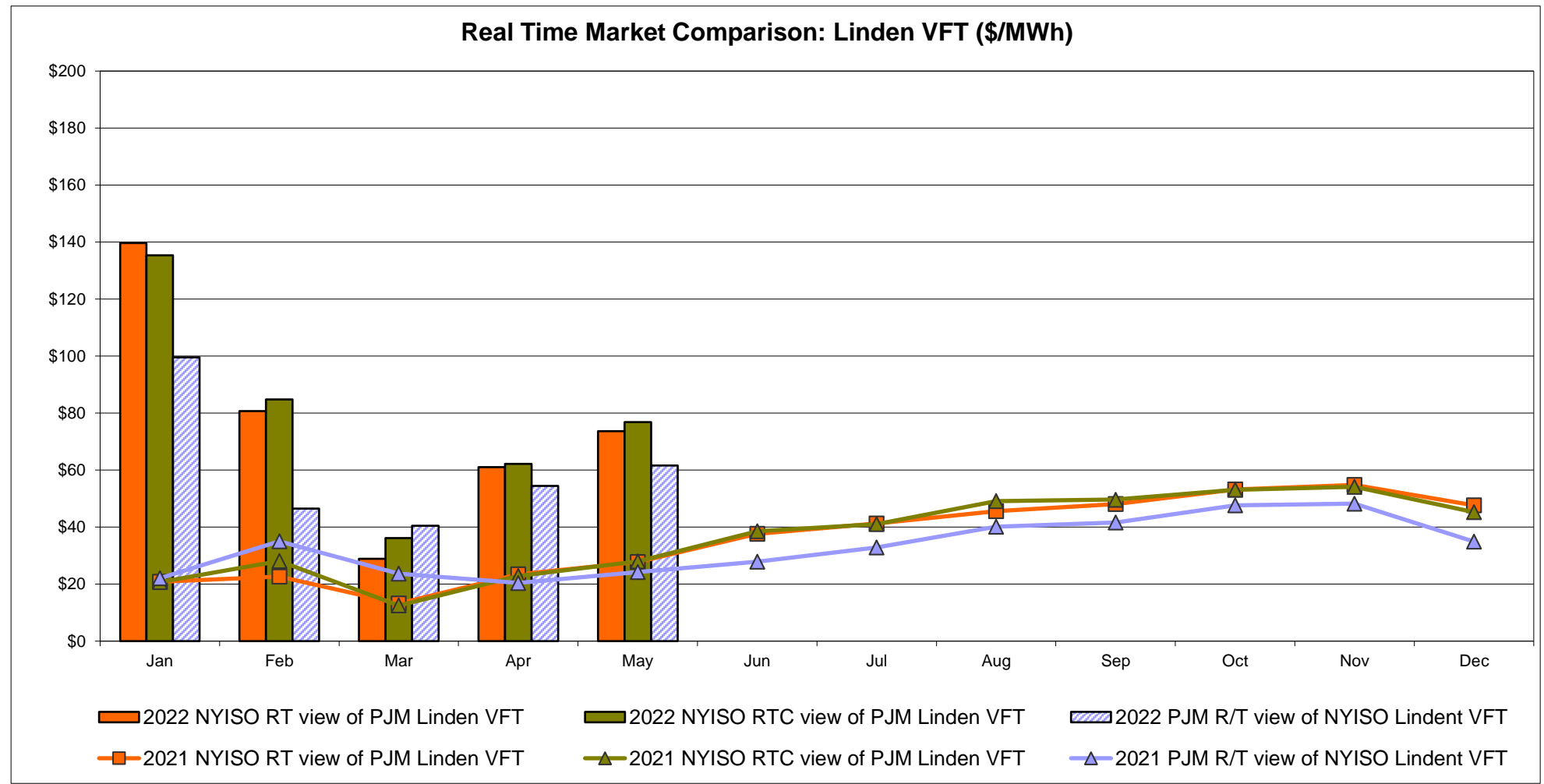
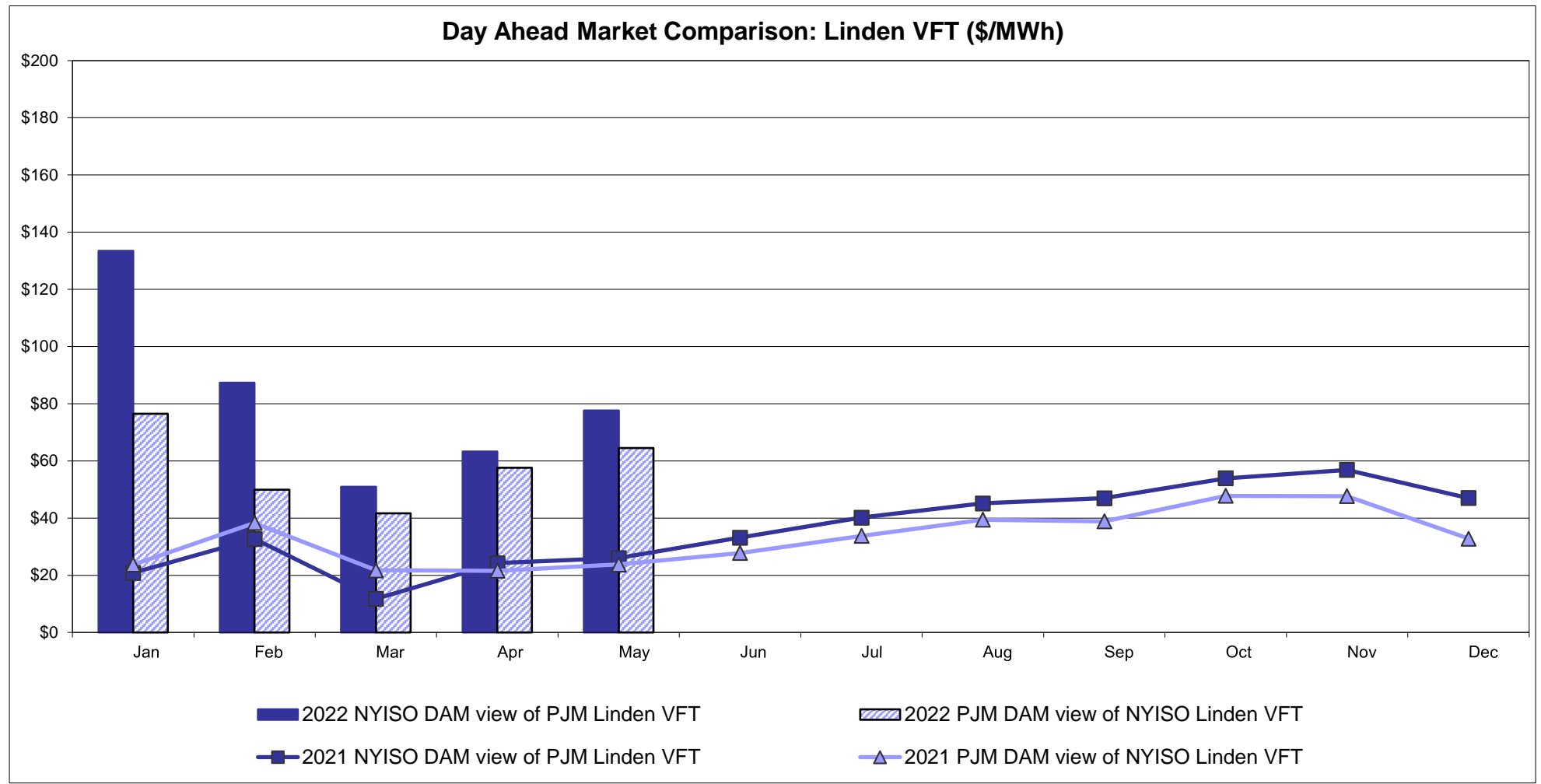


External Comparison Hydro-Quebec

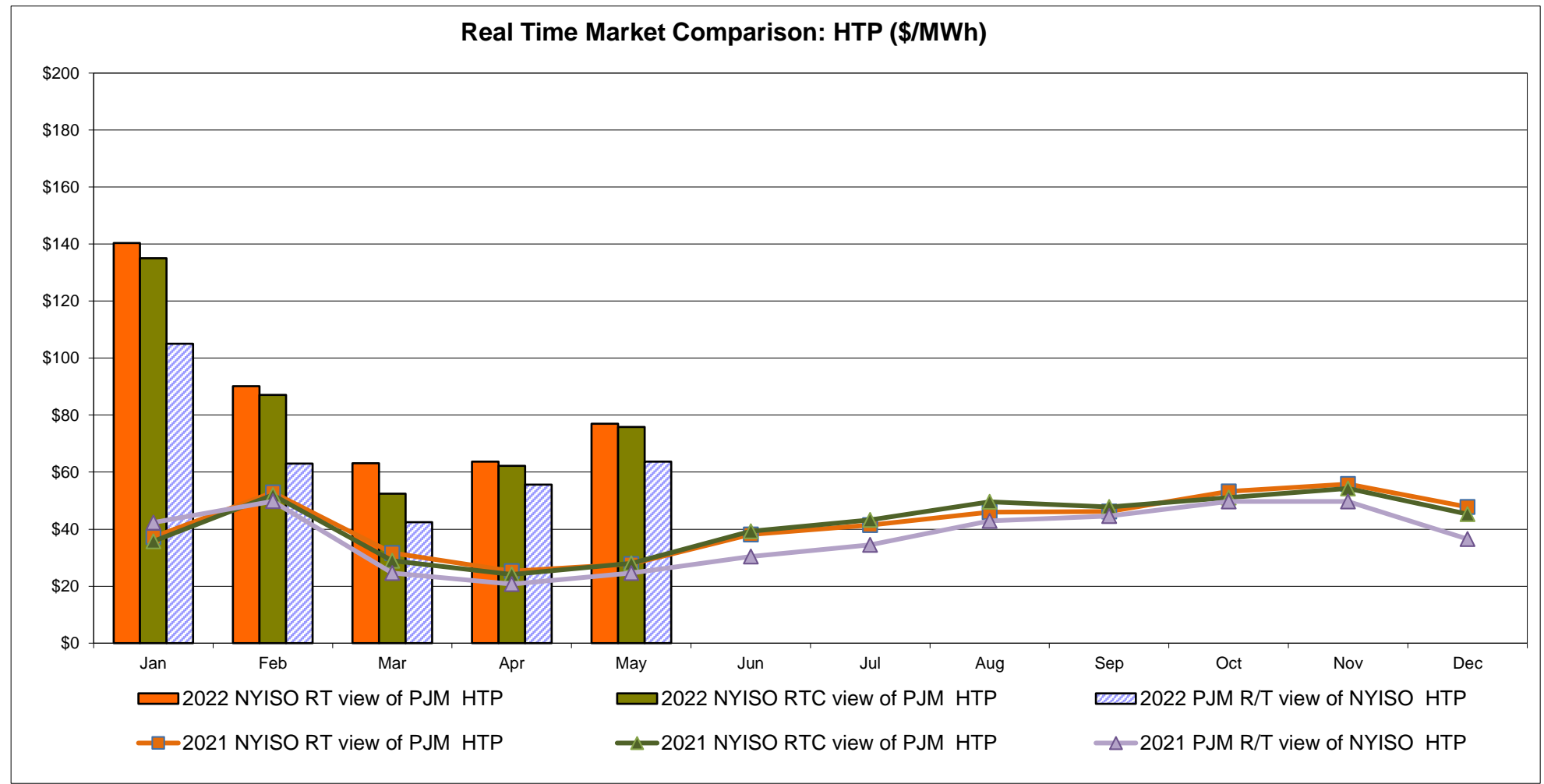
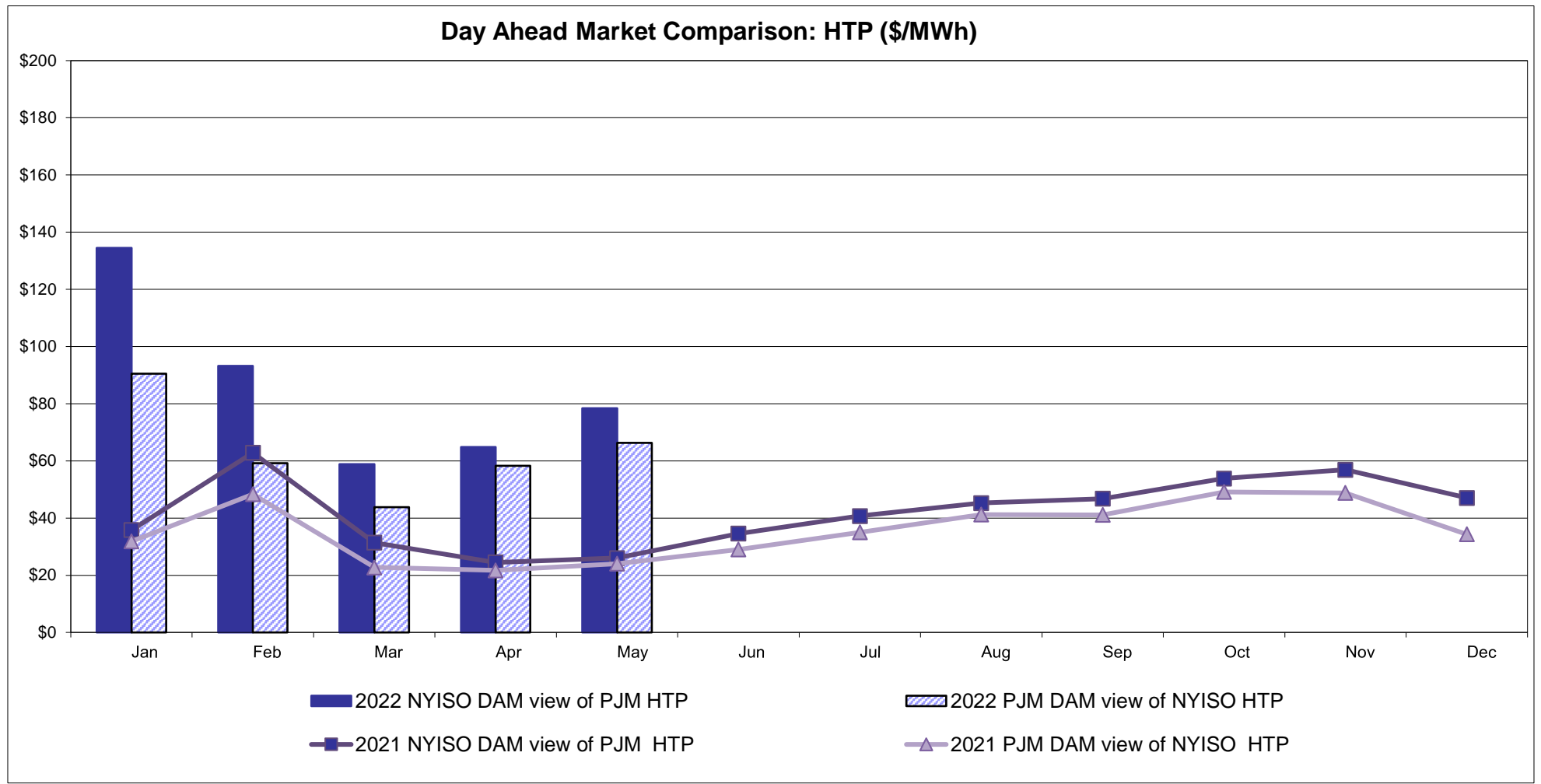


Note:
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

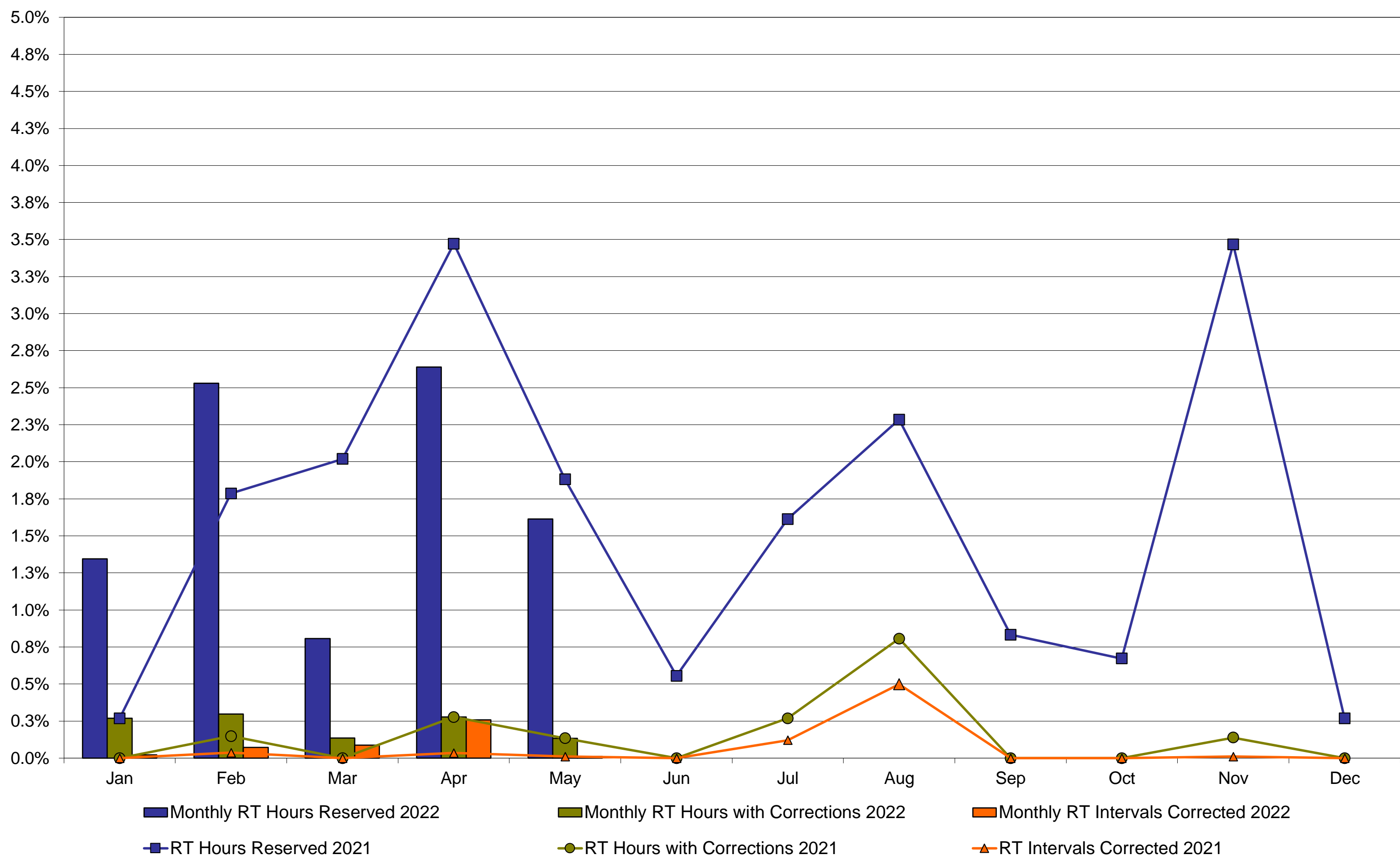


NYISO Real Time Price Correction Statistics

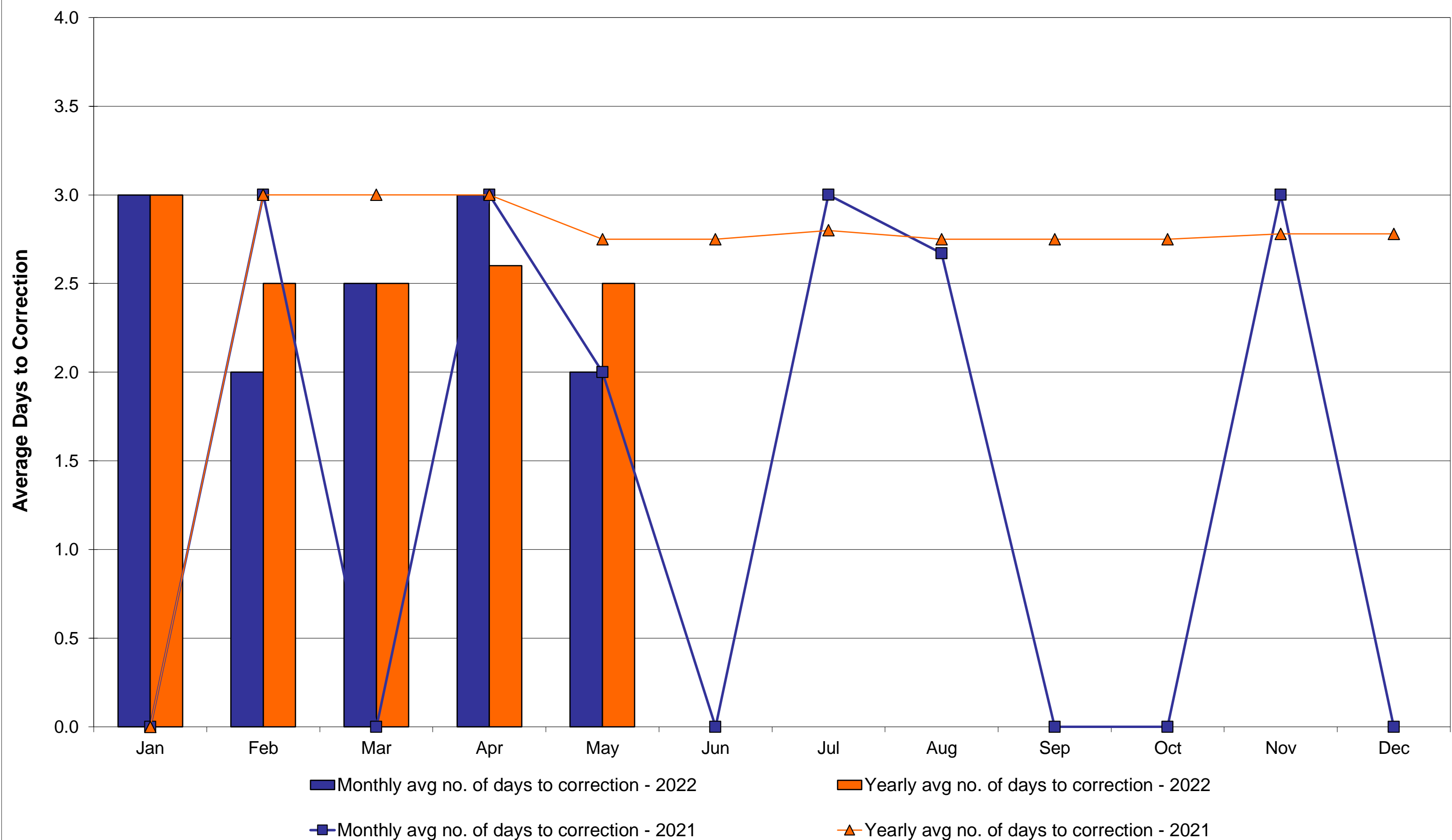
| 2022 | | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|-----------------------------------|--------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| Hour Corrections | | | | | | | | | | | | | |
| Number of hours with corrections | in the month | 2 | 2 | 1 | 2 | 1 | | | | | | | |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | | | | | | | |
| % of hours with corrections | in the month | 0.27% | 0.30% | 0.13% | 0.28% | 0.13% | | | | | | | |
| % of hours with corrections | year-to-date | 0.27% | 0.28% | 0.23% | 0.24% | 0.22% | | | | | | | |
| Interval Corrections | | | | | | | | | | | | | |
| Number of intervals corrected | in the month | 2 | 6 | 8 | 23 | 1 | | | | | | | |
| Number of intervals | in the month | 9,258 | 8,338 | 9,118 | 8,908 | 9,181 | | | | | | | |
| % of intervals corrected | in the month | 0.02% | 0.07% | 0.09% | 0.26% | 0.01% | | | | | | | |
| % of intervals corrected | year-to-date | 0.02% | 0.05% | 0.06% | 0.11% | 0.09% | | | | | | | |
| Hours Reserved | | | | | | | | | | | | | |
| Number of hours reserved | in the month | 10 | 17 | 6 | 19 | 12 | | | | | | | |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | | | | | | | |
| % of hours reserved | in the month | 1.34% | 2.53% | 0.81% | 2.64% | 1.61% | | | | | | | |
| % of hours reserved | year-to-date | 1.34% | 1.91% | 1.53% | 1.81% | 1.77% | | | | | | | |
| Days to Correction * | | | | | | | | | | | | | |
| Avg. number of days to correction | in the month | 3.00 | 2.00 | 2.50 | 3.00 | 2.00 | | | | | | | |
| Avg. number of days to correction | year-to-date | 3.00 | 2.50 | 2.50 | 2.60 | 2.50 | | | | | | | |
| Days Without Corrections | | | | | | | | | | | | | |
| Days without corrections | in the month | 30 | 27 | 29 | 29 | 30 | | | | | | | |
| Days without corrections | year-to-date | 30 | 57 | 86 | 115 | 145 | | | | | | | |
| 2021 | | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| Hour Corrections | | | | | | | | | | | | | |
| Number of hours with corrections | in the month | 0 | 1 | 0 | 2 | 1 | 0 | 2 | 6 | 0 | 0 | 1 | 0 |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 |
| % of hours with corrections | in the month | 0.00% | 0.15% | 0.00% | 0.28% | 0.13% | 0.00% | 0.27% | 0.81% | 0.00% | 0.00% | 0.14% | 0.00% |
| % of hours with corrections | year-to-date | 0.00% | 0.07% | 0.05% | 0.10% | 0.11% | 0.09% | 0.12% | 0.21% | 0.18% | 0.16% | 0.16% | 0.15% |
| Interval Corrections | | | | | | | | | | | | | |
| Number of intervals corrected | in the month | 0 | 3 | 0 | 3 | 1 | 0 | 11 | 45 | 0 | 0 | 1 | 0 |
| Number of intervals | in the month | 9,095 | 8,236 | 9,100 | 8,827 | 9,157 | 8,813 | 9,084 | 9,024 | 8,783 | 9,133 | 8,802 | 9,063 |
| % of intervals corrected | in the month | 0.00% | 0.04% | 0.00% | 0.03% | 0.01% | 0.00% | 0.12% | 0.50% | 0.00% | 0.00% | 0.01% | 0.00% |
| % of intervals corrected | year-to-date | 0.00% | 0.02% | 0.01% | 0.02% | 0.02% | 0.01% | 0.03% | 0.09% | 0.08% | 0.07% | 0.07% | 0.06% |
| Hours Reserved | | | | | | | | | | | | | |
| Number of hours reserved | in the month | 2 | 12 | 15 | 25 | 14 | 4 | 12 | 17 | 6 | 5 | 25 | 2 |
| Number of hours | in the month | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 |
| % of hours reserved | in the month | 0.27% | 1.79% | 2.02% | 3.47% | 1.88% | 0.56% | 1.61% | 2.28% | 0.83% | 0.67% | 3.47% | 0.27% |
| % of hours reserved | year-to-date | 0.27% | 0.99% | 1.34% | 1.88% | 1.88% | 1.66% | 1.65% | 1.73% | 1.63% | 1.54% | 1.71% | 1.59% |
| Days to Correction * | | | | | | | | | | | | | |
| Avg. number of days to correction | in the month | 0.00 | 3.00 | 0.00 | 3.00 | 2.00 | 0.00 | 3.00 | 2.67 | 0.00 | 0.00 | 3.00 | 0.00 |
| Avg. number of days to correction | year-to-date | 0.00 | 3.00 | 3.00 | 3.00 | 2.75 | 2.75 | 2.80 | 2.75 | 2.75 | 2.75 | 2.78 | 2.78 |
| Days Without Corrections | | | | | | | | | | | | | |
| Days without corrections | in the month | 31 | 27 | 31 | 28 | 30 | 30 | 30 | 28 | 30 | 31 | 29 | 31 |
| Days without corrections | year-to-date | 31 | 58 | 89 | 117 | 147 | 177 | 207 | 235 | 265 | 296 | 325 | 356 |

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

Percentage of Real-Time Corrections



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



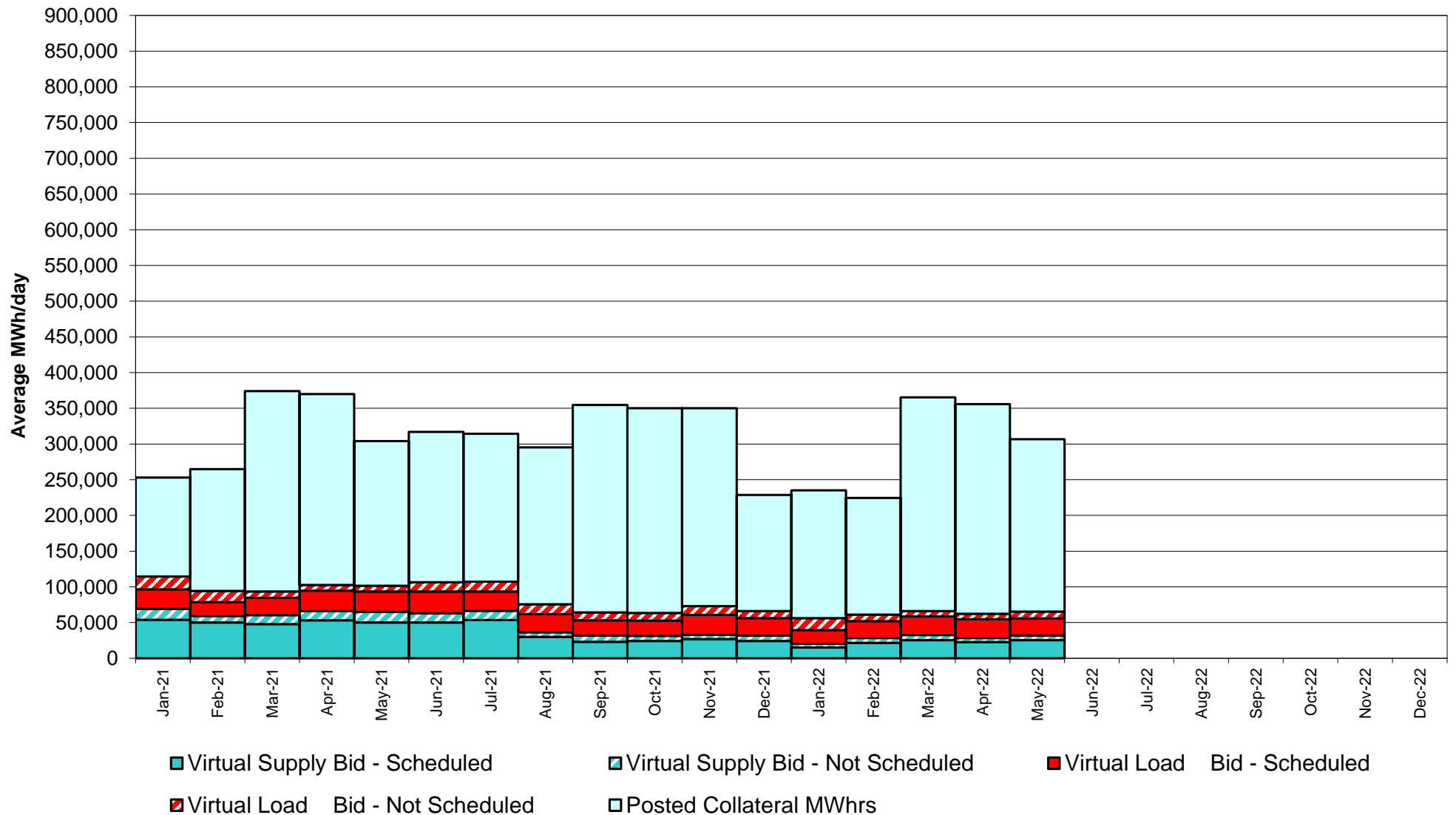
*Calendar days from reservation date; for June 2018 forward, business days from market date

Market Mitigation and Analysis
Prepared: 6/9/2022 10:19 AM

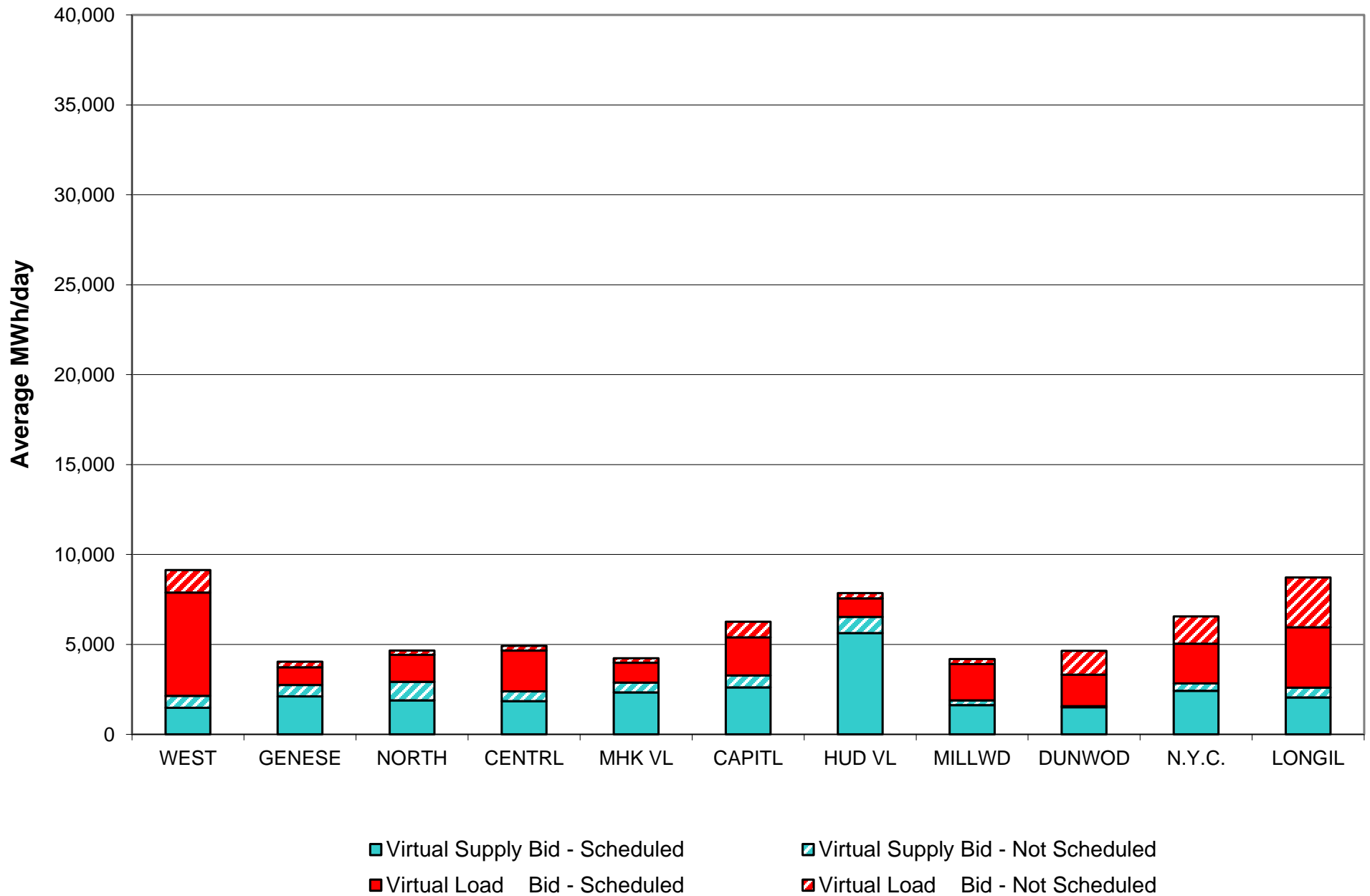
Y

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

NYISO Virtual Trading Average MWh per day



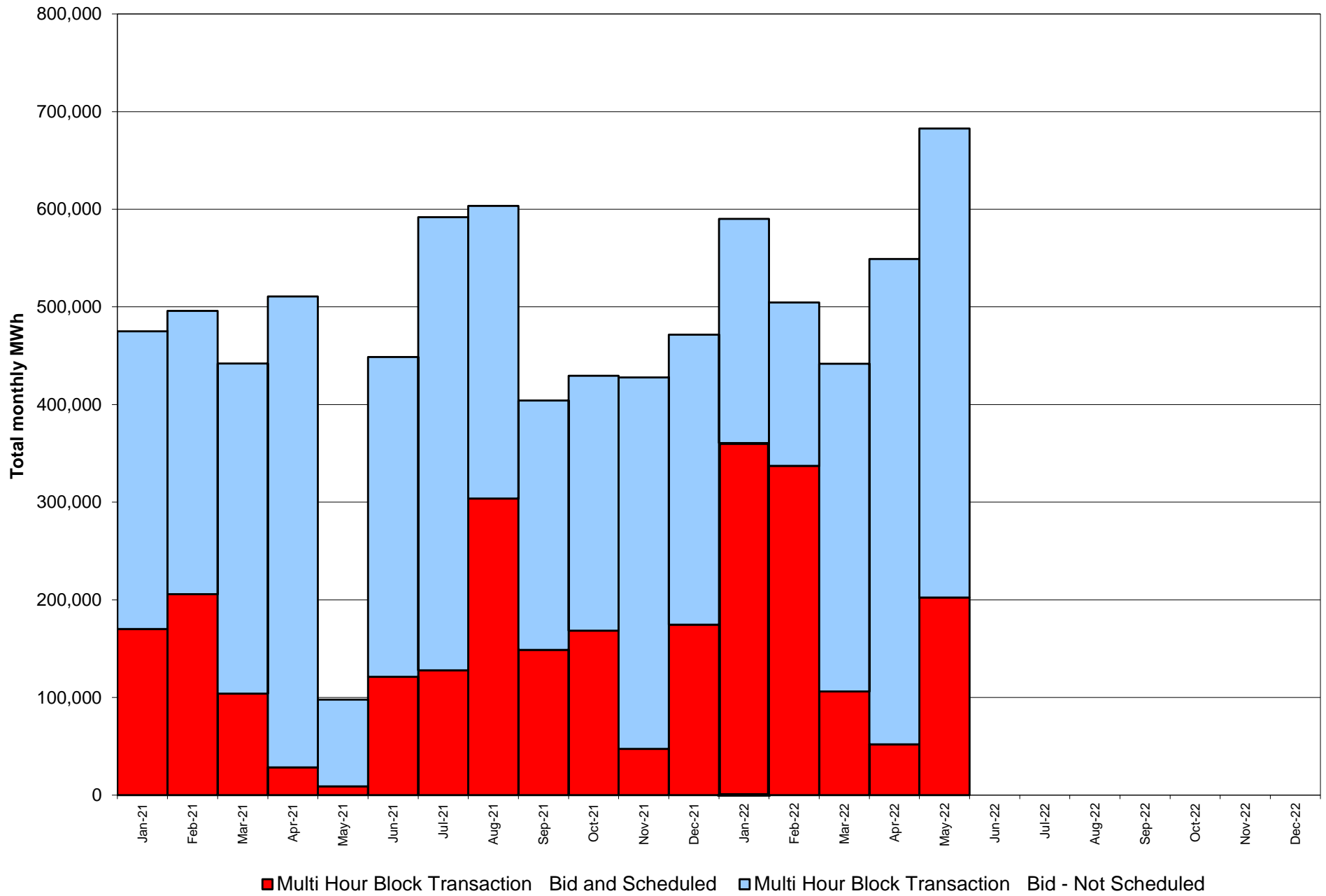
Virtual Load and Supply Zonal Statistics through May 31, 2022



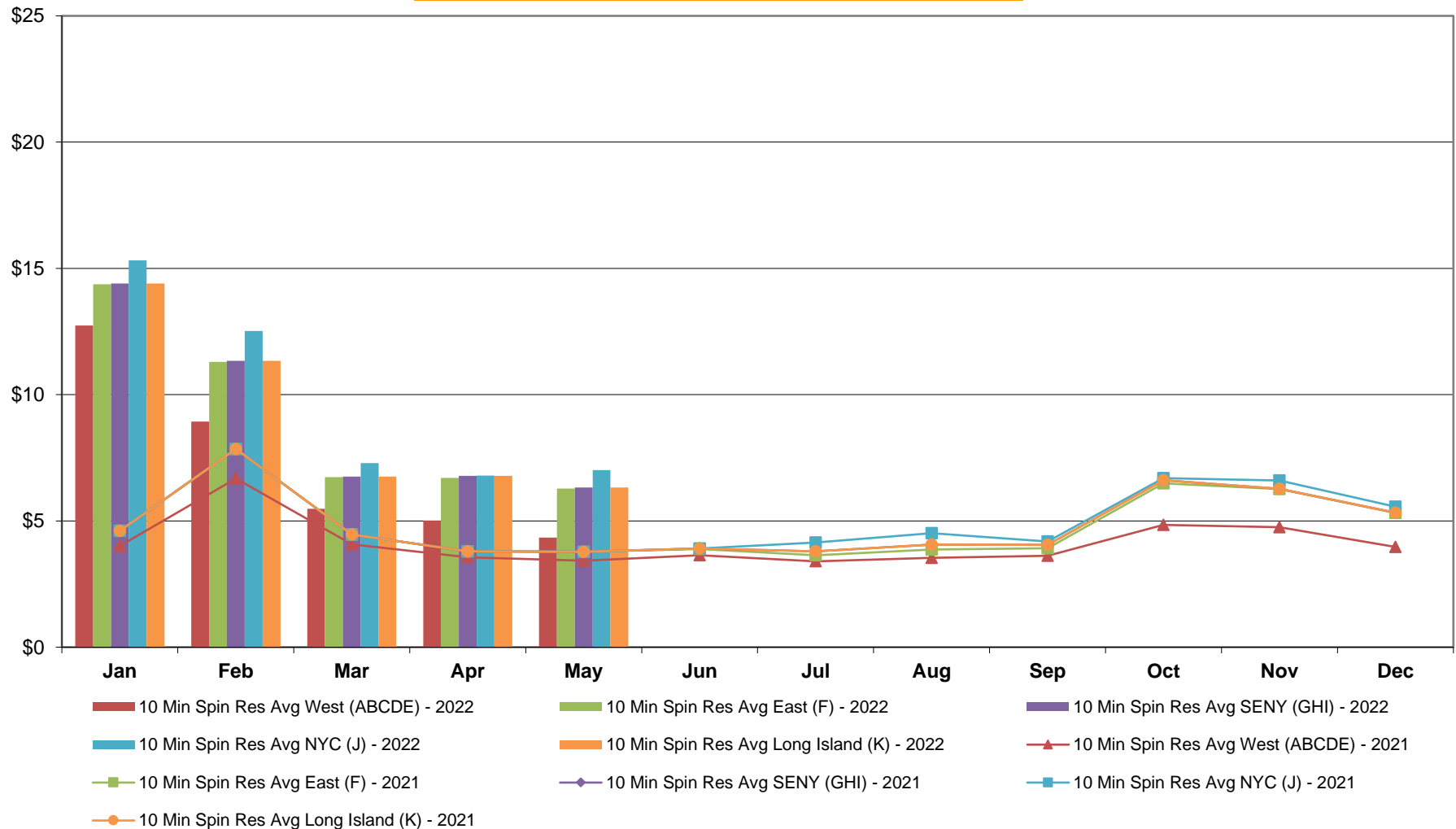
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2022

| | | Virtual Load Bid | | Virtual Supply Bid | | | | Virtual Load Bid | | Virtual Supply Bid | | | | Virtual Load Bid | | Virtual Supply Bid | |
|--------|--------|------------------|---------------|--------------------|---------------|--------|--------|------------------|---------------|--------------------|---------------|--------|--------|------------------|---------------|--------------------|---------------|
| Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled | Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled | Zone | Date | Scheduled | Not Scheduled | Scheduled | Not Scheduled |
| WEST | Jan-22 | 2,754 | 1,900 | 2,076 | 1,276 | MHK VL | Jan-22 | 722 | 621 | 1,245 | 204 | DUNWOD | Jan-22 | 1,376 | 1,851 | 652 | 54 |
| | Feb-22 | 2,773 | 1,170 | 3,027 | 908 | | Feb-22 | 1,830 | 386 | 1,518 | 349 | | Feb-22 | 1,696 | 1,004 | 1,218 | 86 |
| | Mar-22 | 3,702 | 830 | 2,480 | 526 | | Mar-22 | 2,263 | 131 | 1,506 | 371 | | Mar-22 | 1,427 | 954 | 1,944 | 68 |
| | Apr-22 | 3,967 | 1,016 | 2,214 | 402 | | Apr-22 | 1,848 | 208 | 1,483 | 379 | | Apr-22 | 2,229 | 1,069 | 1,219 | 46 |
| | May-22 | 5,740 | 1,247 | 1,473 | 670 | | May-22 | 1,108 | 254 | 2,338 | 538 | | May-22 | 1,752 | 1,335 | 1,505 | 58 |
| | Jun-22 | | | | | | Jun-22 | | | | | | Jun-22 | | | | |
| | Jul-22 | | | | | | Jul-22 | | | | | | Jul-22 | | | | |
| | Aug-22 | | | | | | Aug-22 | | | | | | Aug-22 | | | | |
| | Sep-22 | | | | | | Sep-22 | | | | | | Sep-22 | | | | |
| | Oct-22 | | | | | | Oct-22 | | | | | | Oct-22 | | | | |
| | Nov-22 | | | | | | Nov-22 | | | | | | Nov-22 | | | | |
| | Dec-22 | | | | | | Dec-22 | | | | | | Dec-22 | | | | |
| GENESE | Jan-22 | 722 | 464 | 1,058 | 319 | CAPITL | Jan-22 | 2,536 | 2,157 | 749 | 695 | N.Y.C. | Jan-22 | 2,341 | 3,279 | 1,155 | 349 |
| | Feb-22 | 853 | 293 | 1,560 | 395 | | Feb-22 | 3,700 | 1,211 | 1,075 | 785 | | Feb-22 | 2,889 | 1,668 | 1,938 | 607 |
| | Mar-22 | 1,615 | 190 | 1,176 | 265 | | Mar-22 | 2,660 | 1,045 | 1,450 | 879 | | Mar-22 | 1,769 | 1,526 | 2,728 | 629 |
| | Apr-22 | 1,226 | 244 | 1,415 | 354 | | Apr-22 | 1,761 | 610 | 2,274 | 843 | | Apr-22 | 1,341 | 1,172 | 2,530 | 492 |
| | May-22 | 994 | 302 | 2,104 | 636 | | May-22 | 2,118 | 868 | 2,609 | 669 | | May-22 | 2,215 | 1,517 | 2,425 | 405 |
| | Jun-22 | | | | | | Jun-22 | | | | | | Jun-22 | | | | |
| | Jul-22 | | | | | | Jul-22 | | | | | | Jul-22 | | | | |
| | Aug-22 | | | | | | Aug-22 | | | | | | Aug-22 | | | | |
| | Sep-22 | | | | | | Sep-22 | | | | | | Sep-22 | | | | |
| | Oct-22 | | | | | | Oct-22 | | | | | | Oct-22 | | | | |
| | Nov-22 | | | | | | Nov-22 | | | | | | Nov-22 | | | | |
| | Dec-22 | | | | | | Dec-22 | | | | | | Dec-22 | | | | |
| NORTH | Jan-22 | 938 | 469 | 1,778 | 643 | HUD VL | Jan-22 | 1,062 | 1,130 | 3,738 | 1,083 | LONGIL | Jan-22 | 4,217 | 2,685 | 601 | 241 |
| | Feb-22 | 1,019 | 231 | 1,899 | 887 | | Feb-22 | 1,288 | 390 | 5,143 | 1,806 | | Feb-22 | 4,110 | 1,658 | 1,021 | 355 |
| | Mar-22 | 1,192 | 148 | 2,020 | 699 | | Mar-22 | 960 | 308 | 7,017 | 2,760 | | Mar-22 | 5,091 | 1,935 | 1,581 | 408 |
| | Apr-22 | 1,046 | 165 | 2,180 | 885 | | Apr-22 | 1,400 | 172 | 5,721 | 1,227 | | Apr-22 | 4,736 | 2,343 | 918 | 469 |
| | May-22 | 1,501 | 233 | 1,889 | 1,039 | | May-22 | 1,035 | 300 | 5,637 | 889 | | May-22 | 3,361 | 2,766 | 2,045 | 554 |
| | Jun-22 | | | | | | Jun-22 | | | | | | Jun-22 | | | | |
| | Jul-22 | | | | | | Jul-22 | | | | | | Jul-22 | | | | |
| | Aug-22 | | | | | | Aug-22 | | | | | | Aug-22 | | | | |
| | Sep-22 | | | | | | Sep-22 | | | | | | Sep-22 | | | | |
| | Oct-22 | | | | | | Oct-22 | | | | | | Oct-22 | | | | |
| | Nov-22 | | | | | | Nov-22 | | | | | | Nov-22 | | | | |
| | Dec-22 | | | | | | Dec-22 | | | | | | Dec-22 | | | | |
| CENTRL | Jan-22 | 1,317 | 1,284 | 1,104 | 364 | MILLWD | Jan-22 | 1,104 | 654 | 867 | 262 | NYISO | Jan-22 | 19,089 | 16,494 | 15,023 | 5,489 |
| | Feb-22 | 1,665 | 499 | 1,780 | 409 | | Feb-22 | 1,805 | 462 | 1,367 | 312 | | Feb-22 | 23,629 | 8,972 | 21,545 | 6,898 |
| | Mar-22 | 3,731 | 251 | 1,490 | 338 | | Mar-22 | 1,413 | 234 | 2,038 | 338 | | Mar-22 | 25,823 | 7,554 | 25,430 | 7,281 |
| | Apr-22 | 4,837 | 390 | 1,415 | 307 | | Apr-22 | 2,136 | 172 | 1,257 | 309 | | Apr-22 | 26,526 | 7,560 | 22,626 | 5,713 |
| | May-22 | 2,265 | 267 | 1,845 | 543 | | May-22 | 2,011 | 277 | 1,628 | 269 | | May-22 | 24,099 | 9,366 | 25,500 | 6,269 |
| | Jun-22 | | | | | | Jun-22 | | | | | | Jun-22 | | | | |
| | Jul-22 | | | | | | Jul-22 | | | | | | Jul-22 | | | | |
| | Aug-22 | | | | | | Aug-22 | | | | | | Aug-22 | | | | |
| | Sep-22 | | | | | | Sep-22 | | | | | | Sep-22 | | | | |
| | Oct-22 | | | | | | Oct-22 | | | | | | Oct-22 | | | | |
| | Nov-22 | | | | | | Nov-22 | | | | | | Nov-22 | | | | |
| | Dec-22 | | | | | | Dec-22 | | | | | | Dec-22 | | | | |

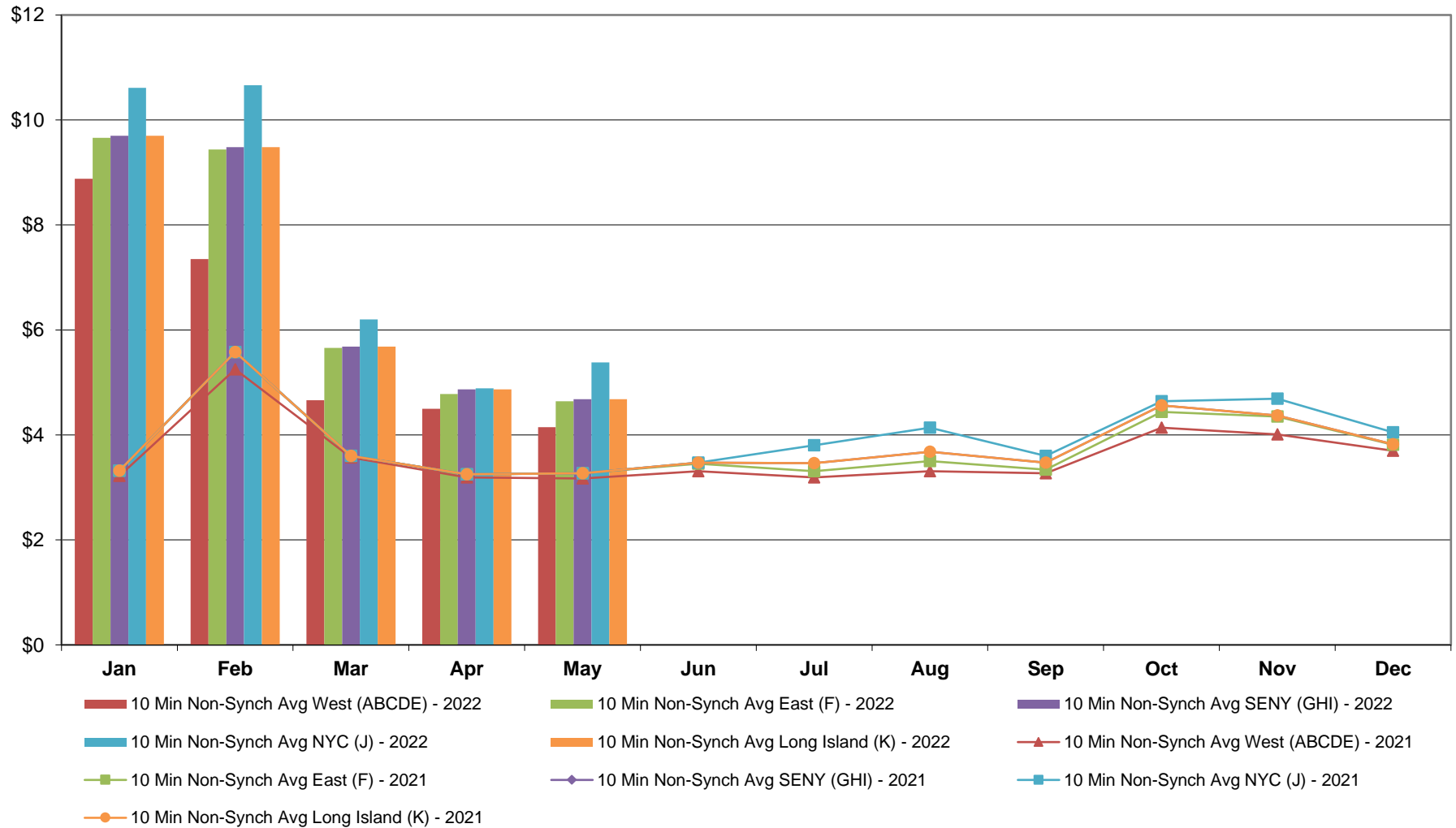
NYISO Multi Hour Block Transactions Monthly Total MWh



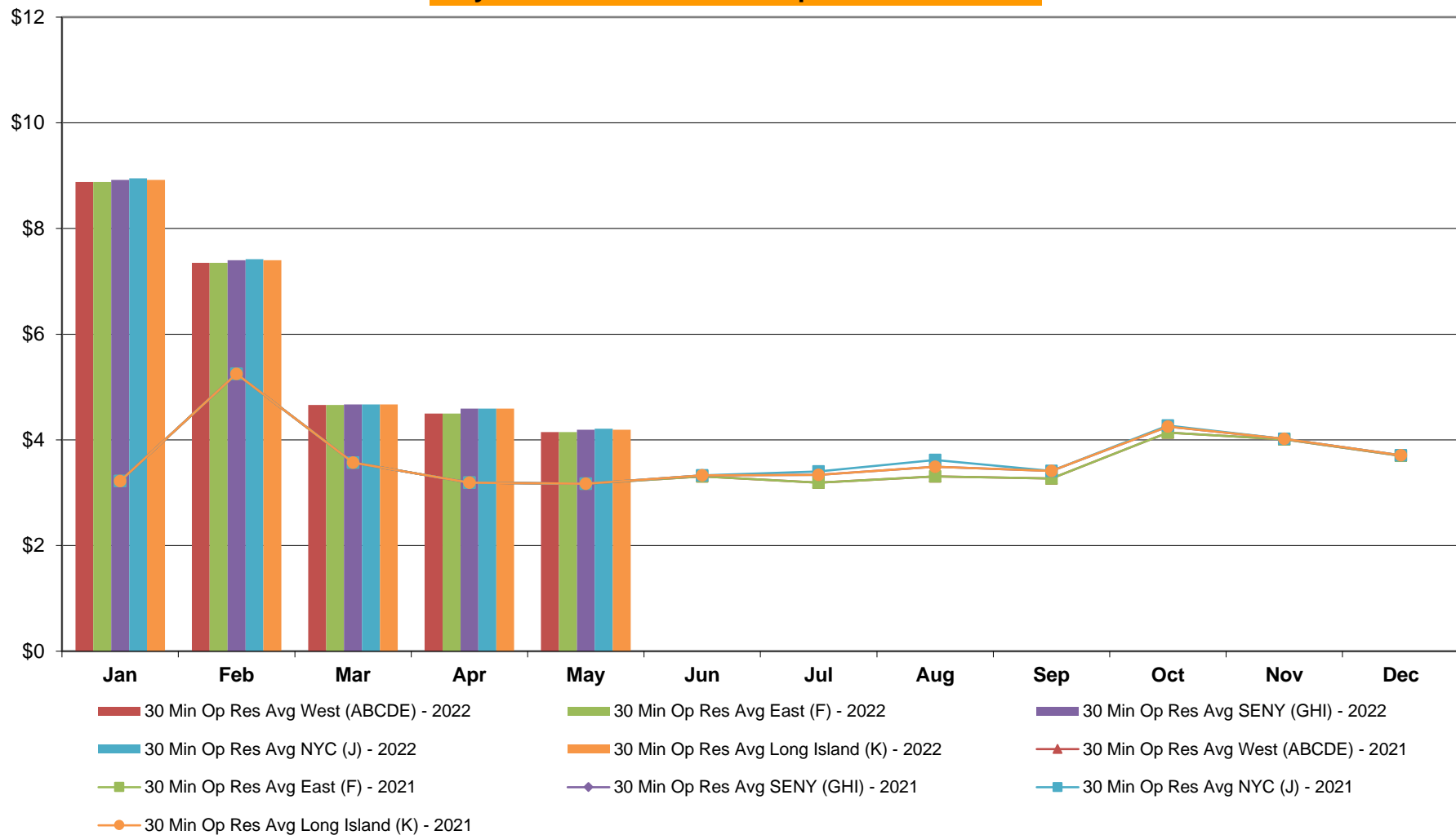
NYISO Monthly Average Ancillary Service Prices **Day Ahead Market - 10 Min Spin 2021 - 2022**



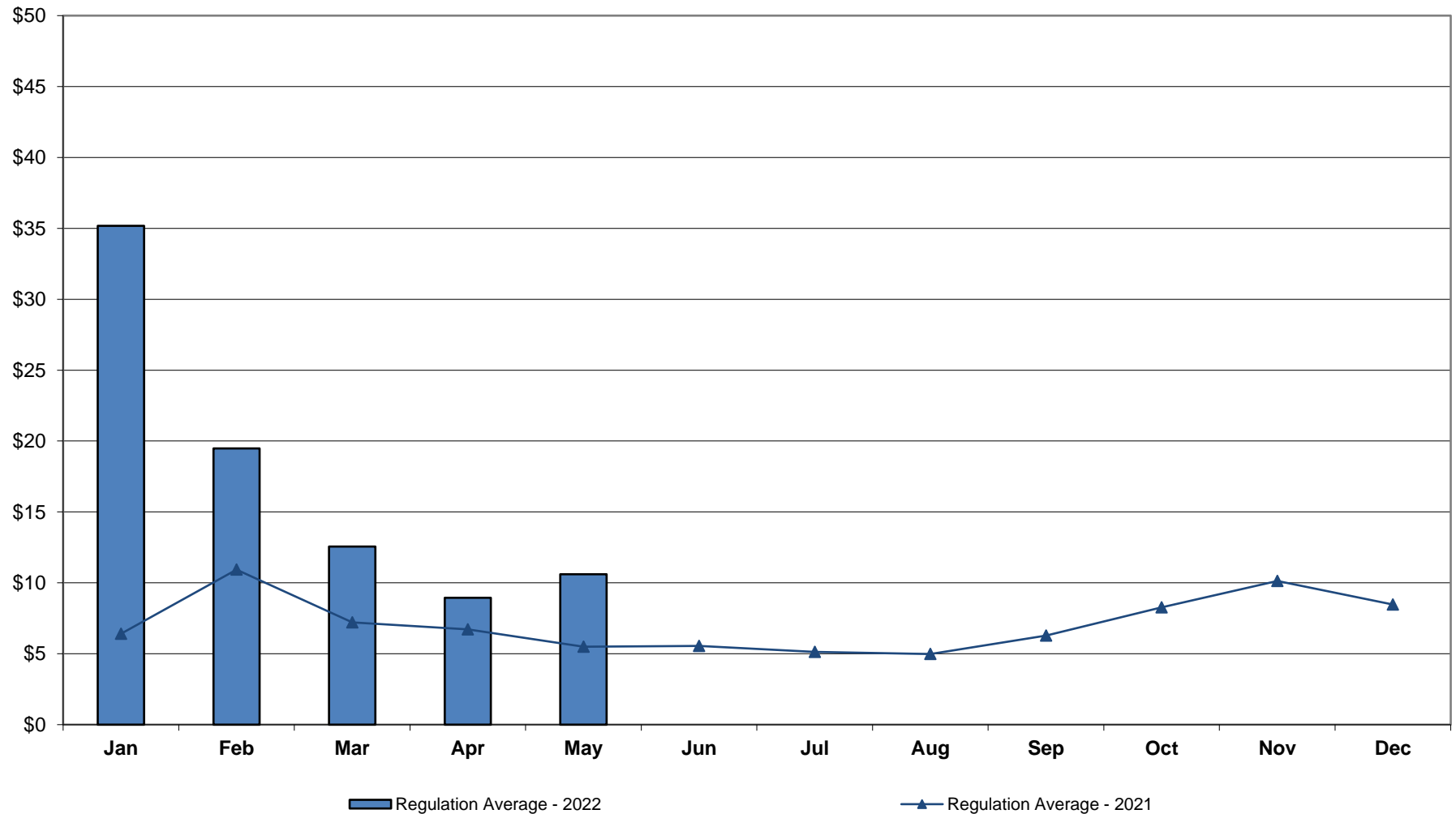
NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 10 Min Non-Synch 2021 - 2022



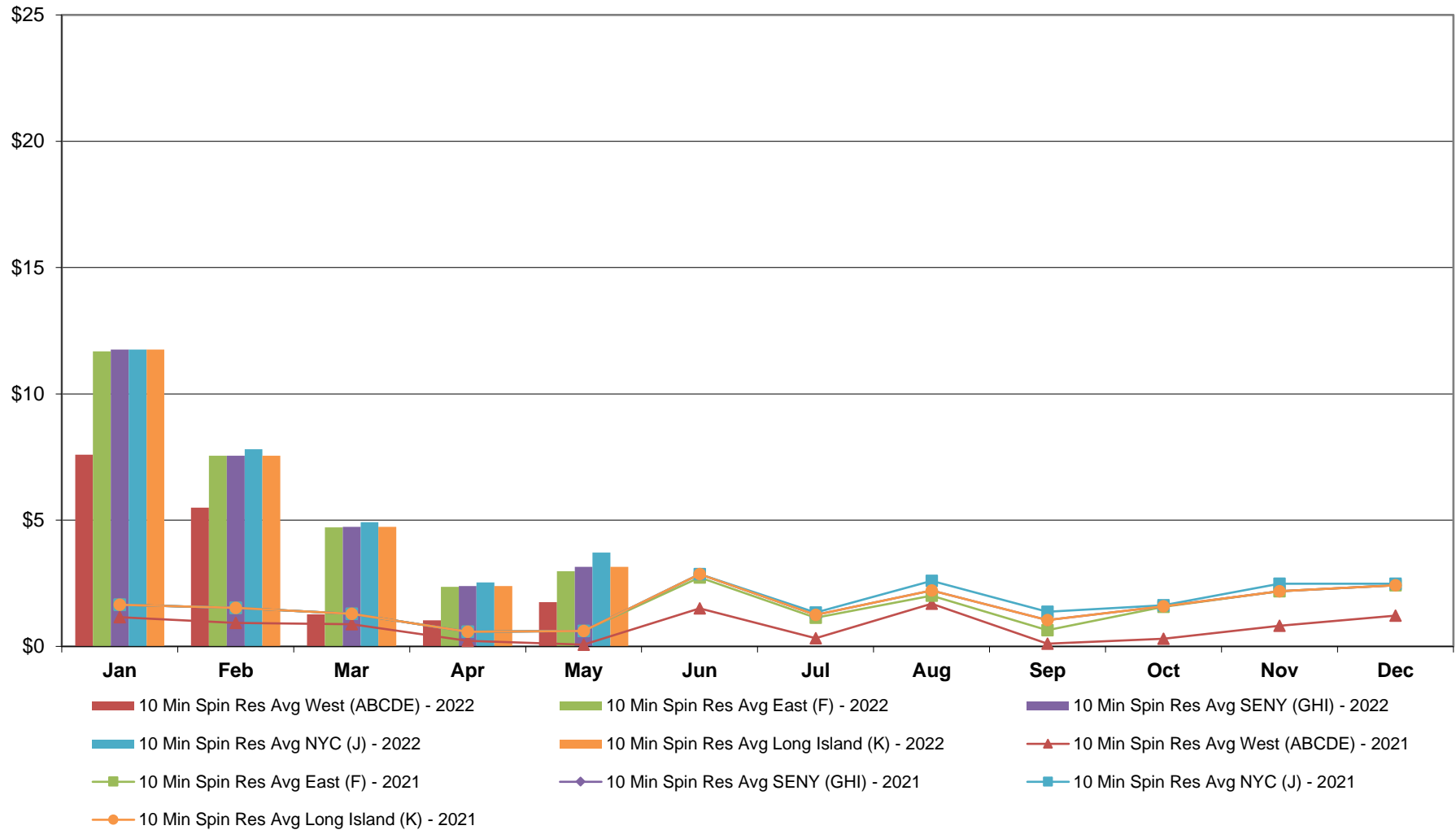
NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 30 Min Op Res 2021 - 2022



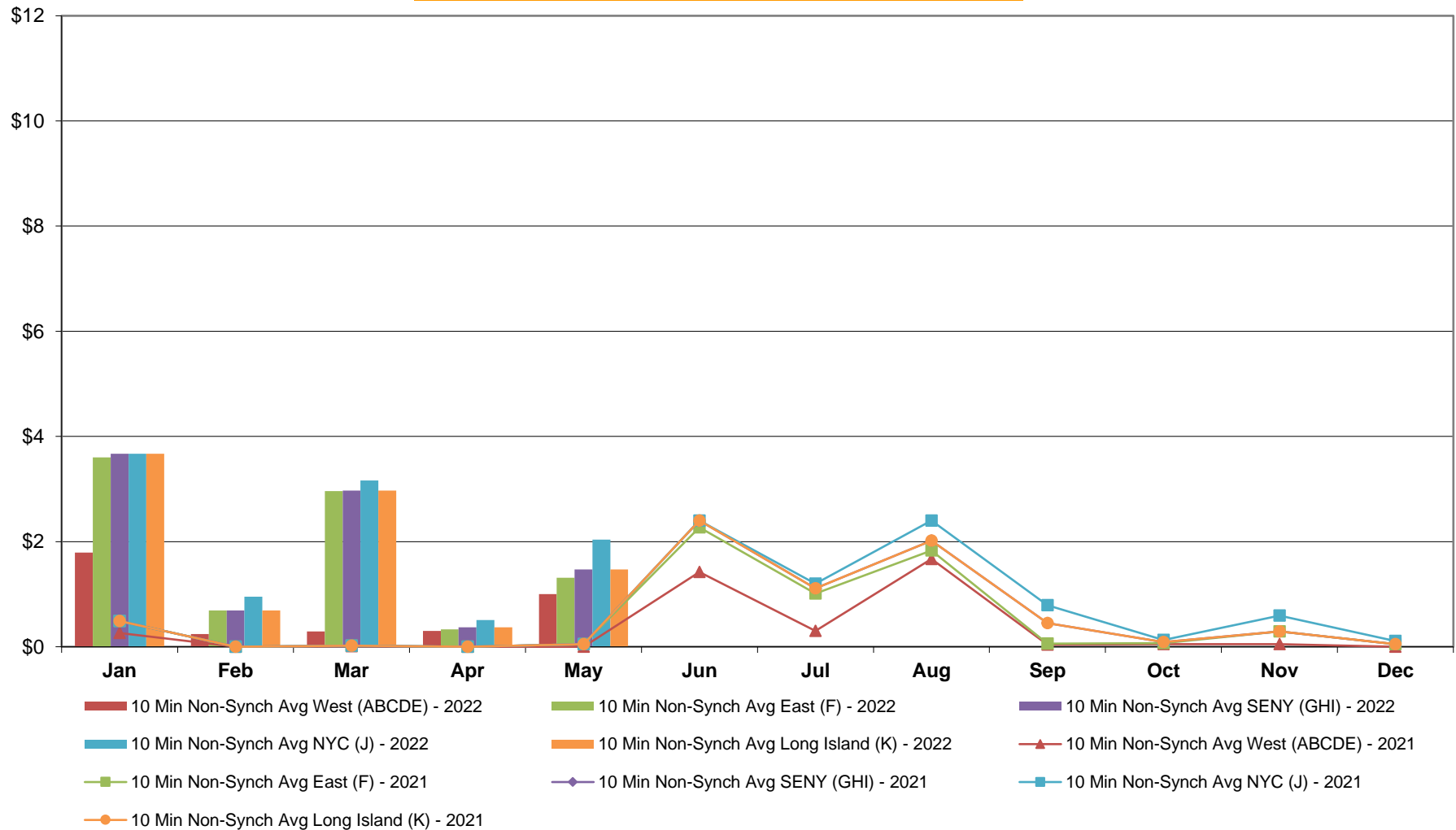
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - Regulation 2021 - 2022**



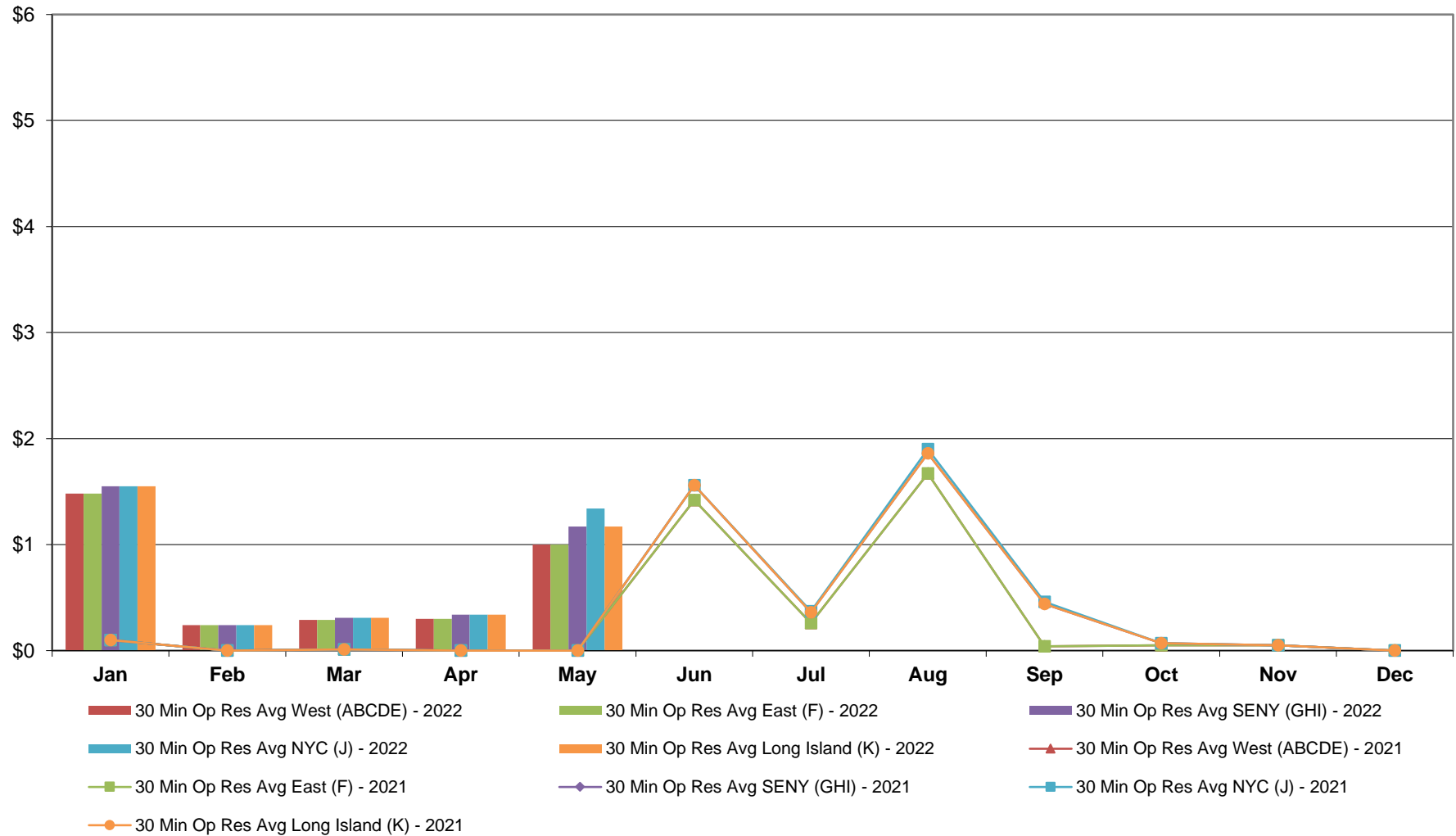
NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Spin 2021 - 2022



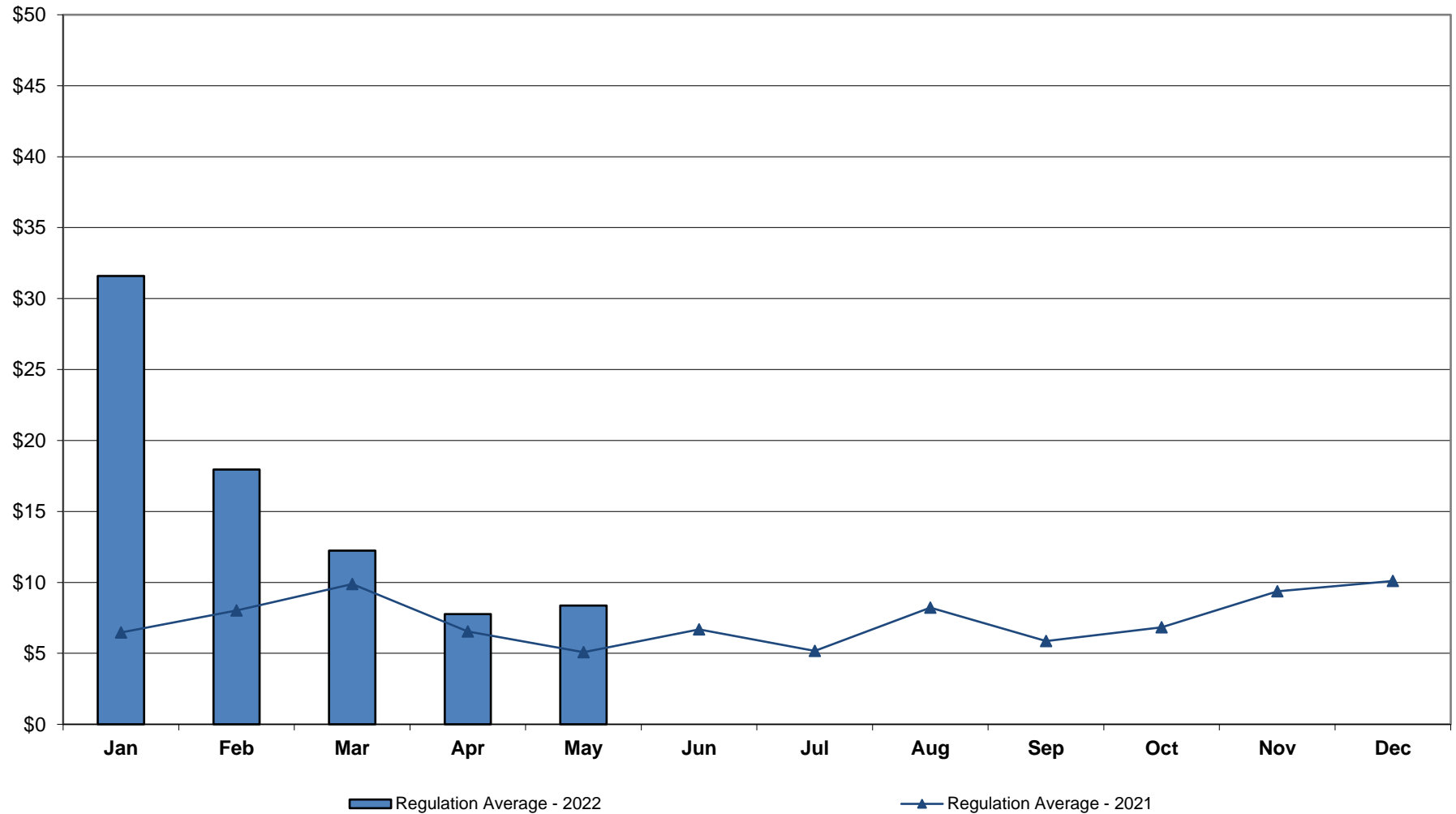
NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Non-Synch 2021 - 2022



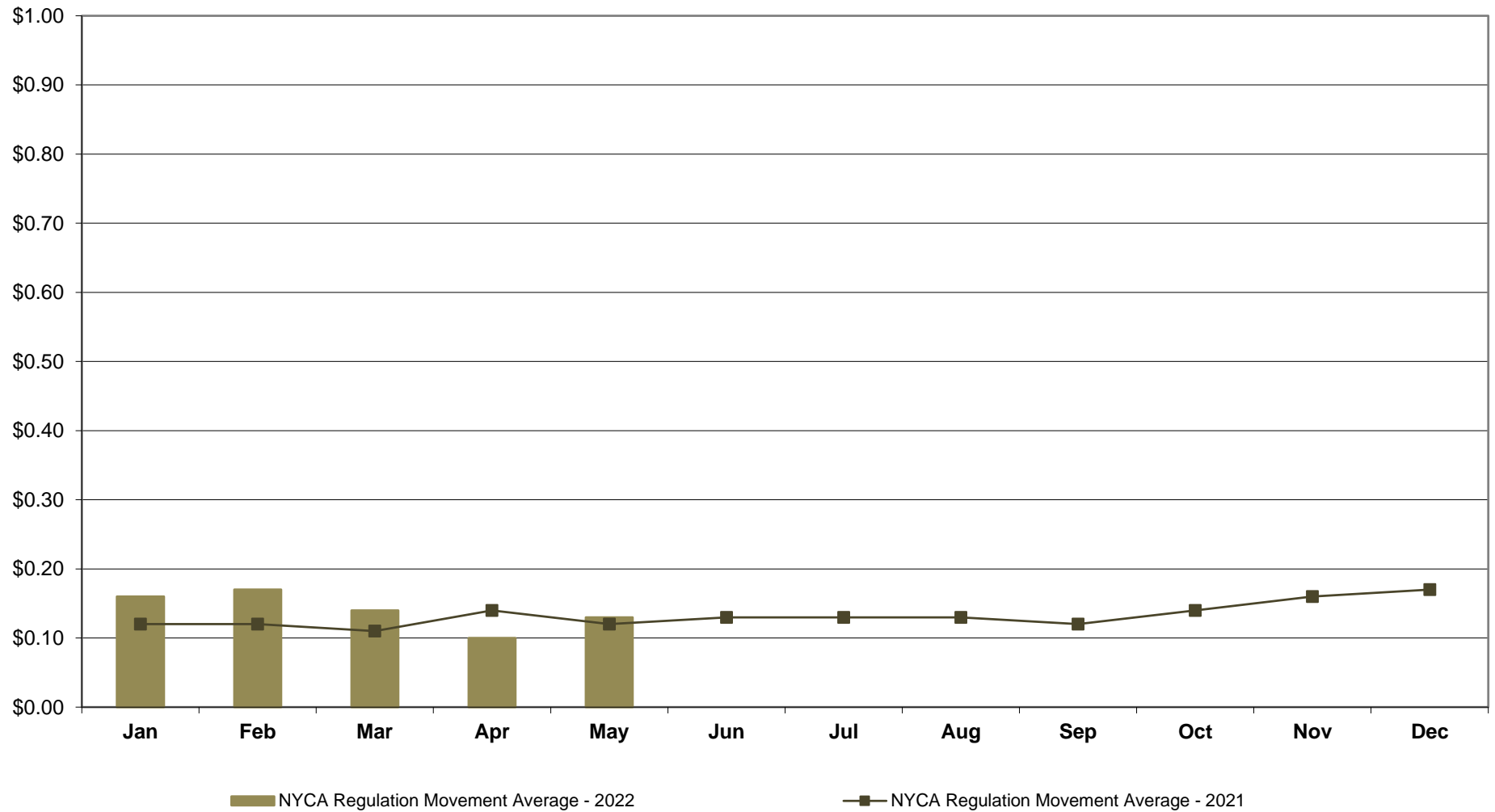
NYISO Monthly Average Ancillary Service Prices RTC Market - 30 Min Op Res 2021 - 2022



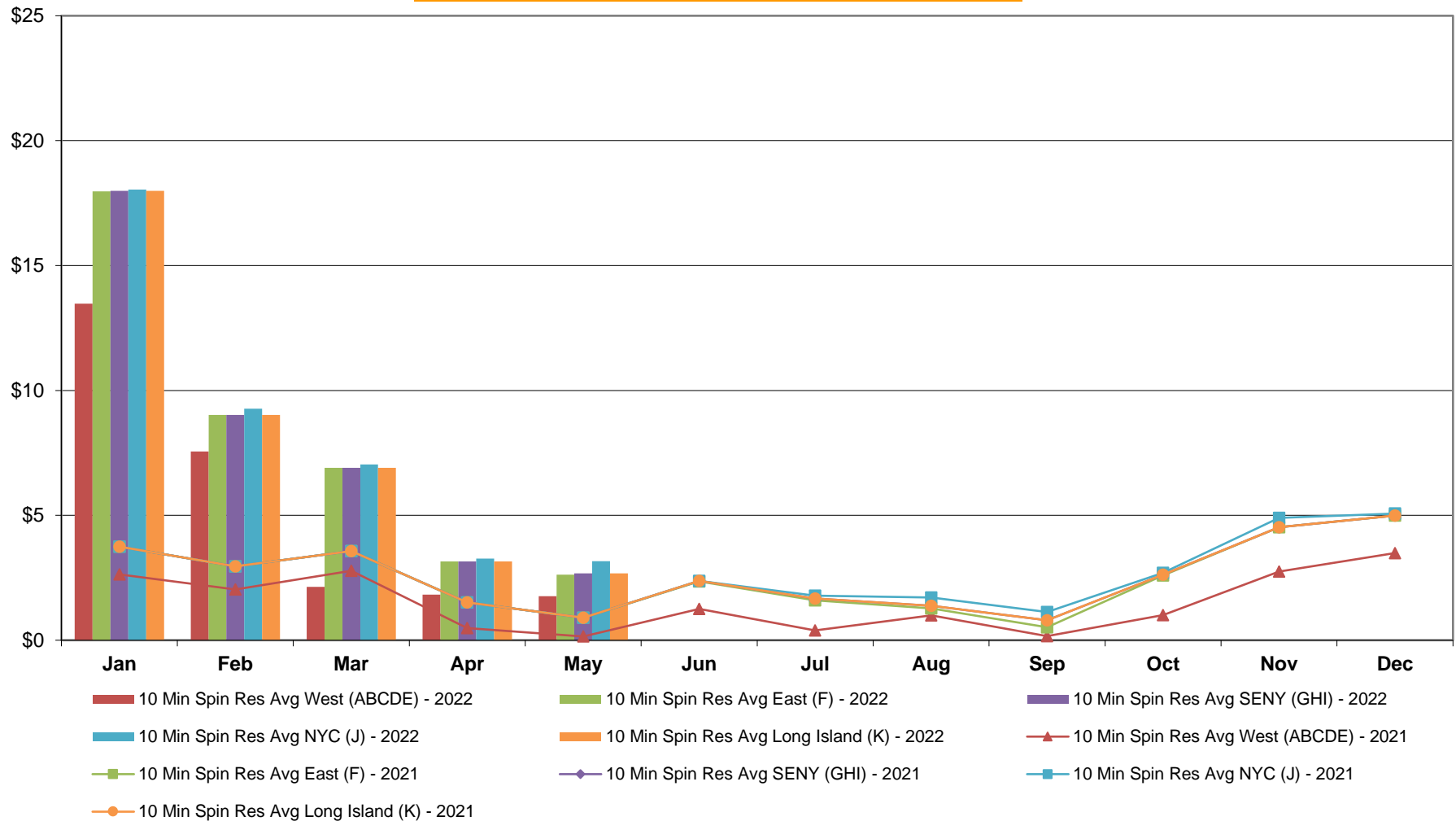
NYISO Monthly Average Ancillary Service Prices RTC Market - Regulation 2021 - 2022



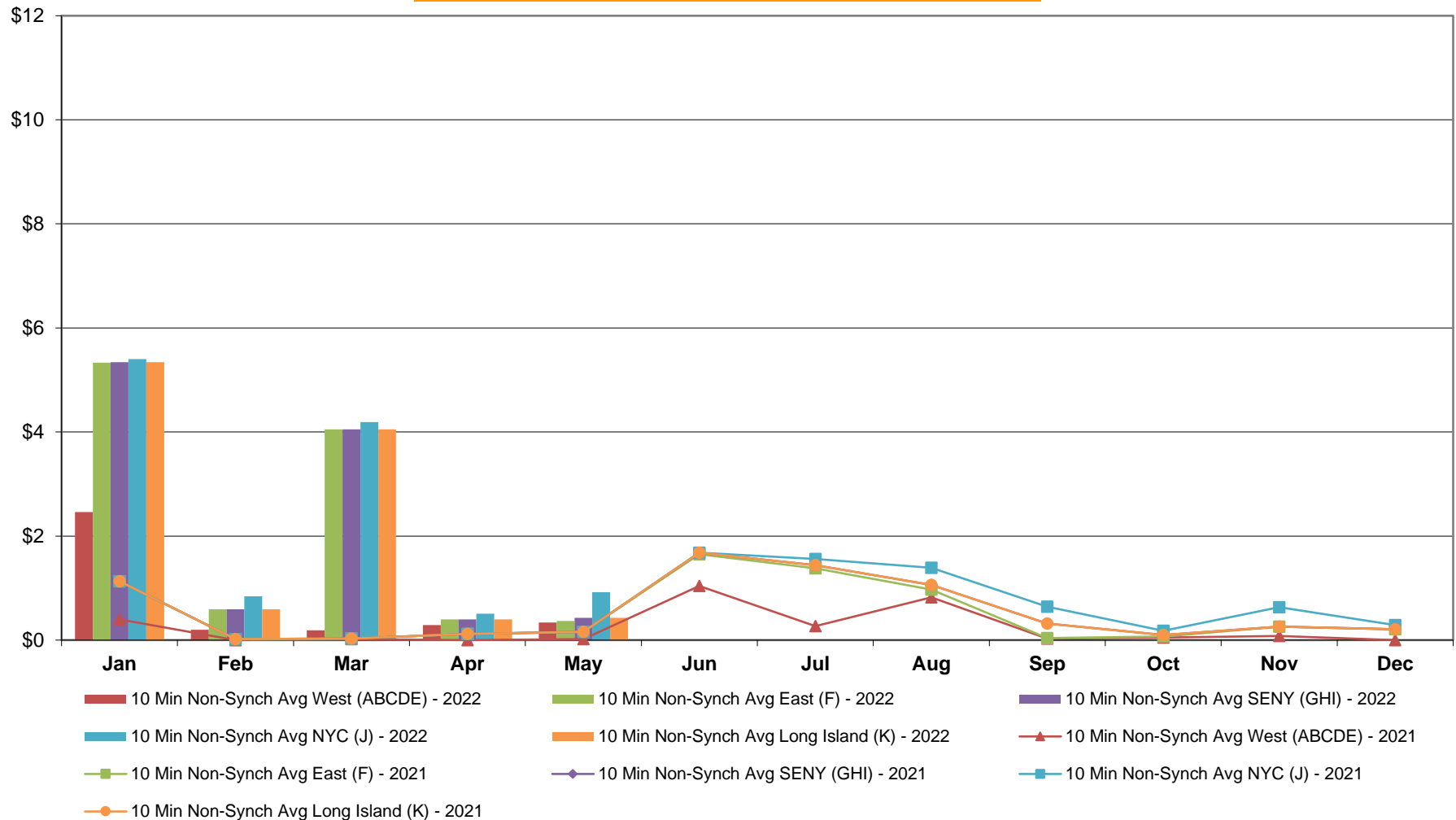
NYISO Monthly Average Ancillary Service Prices RTC Market - Regulation Movement 2021 - 2022



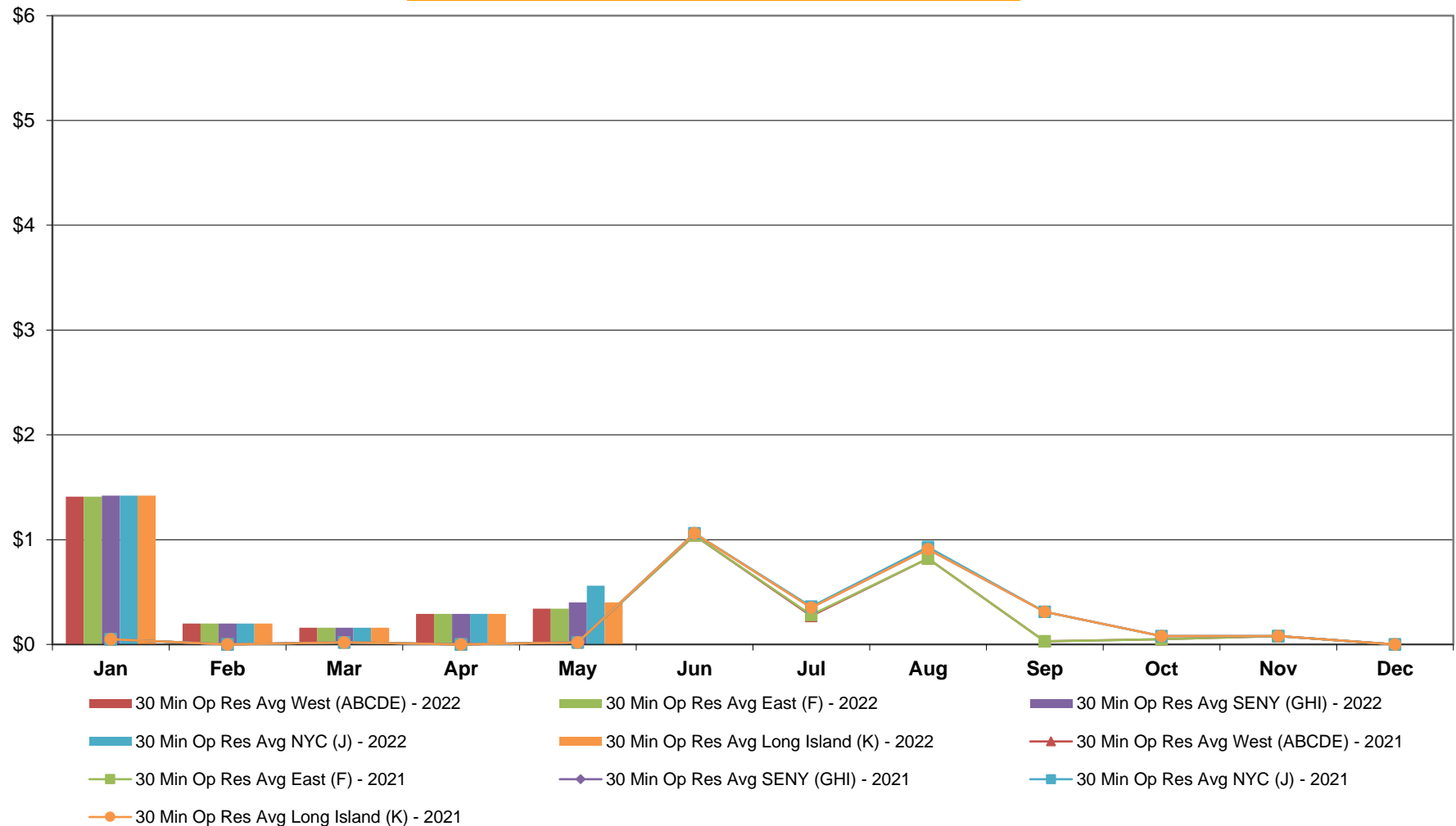
NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Spin 2021 - 2022



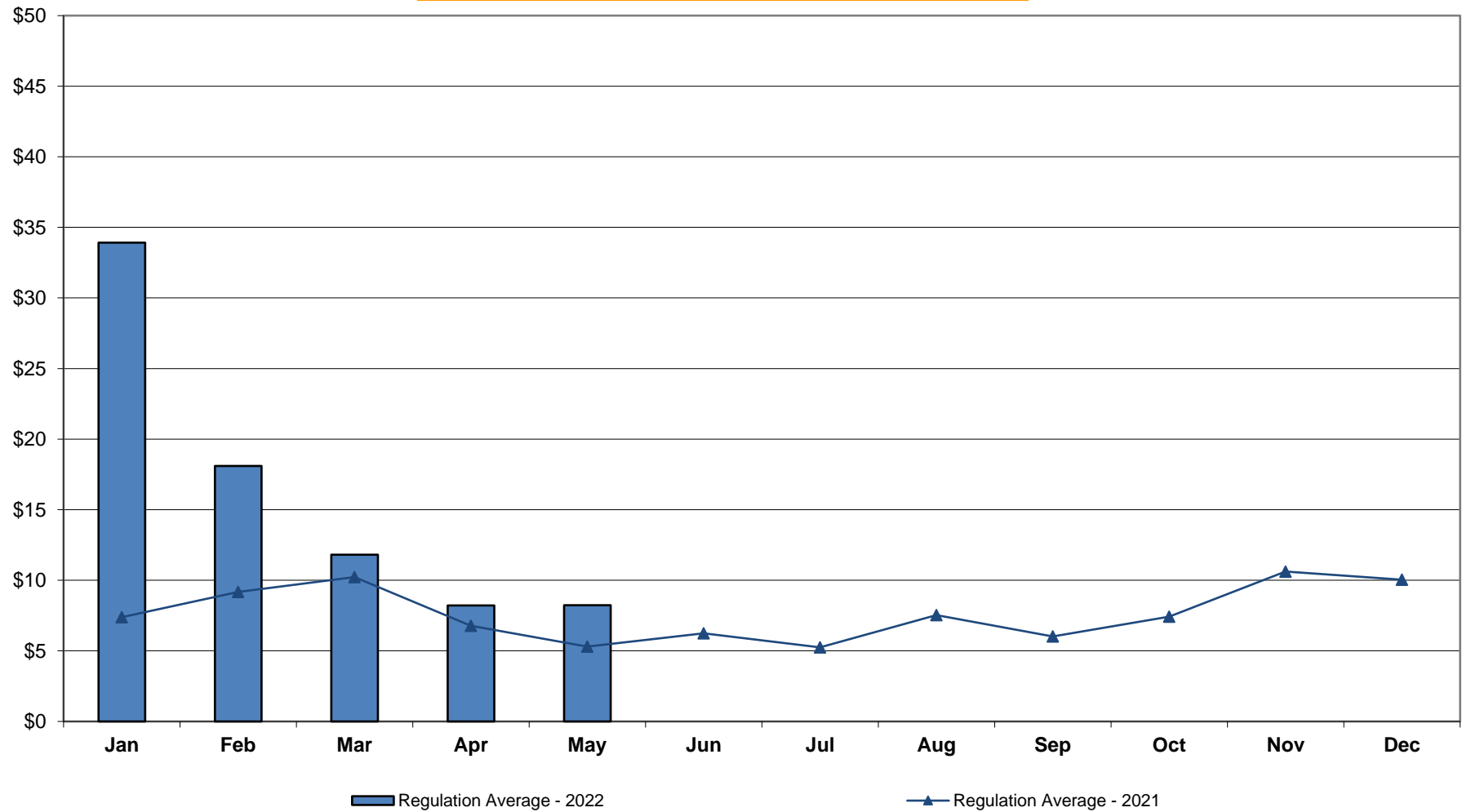
NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Non-Synch 2021 - 2022



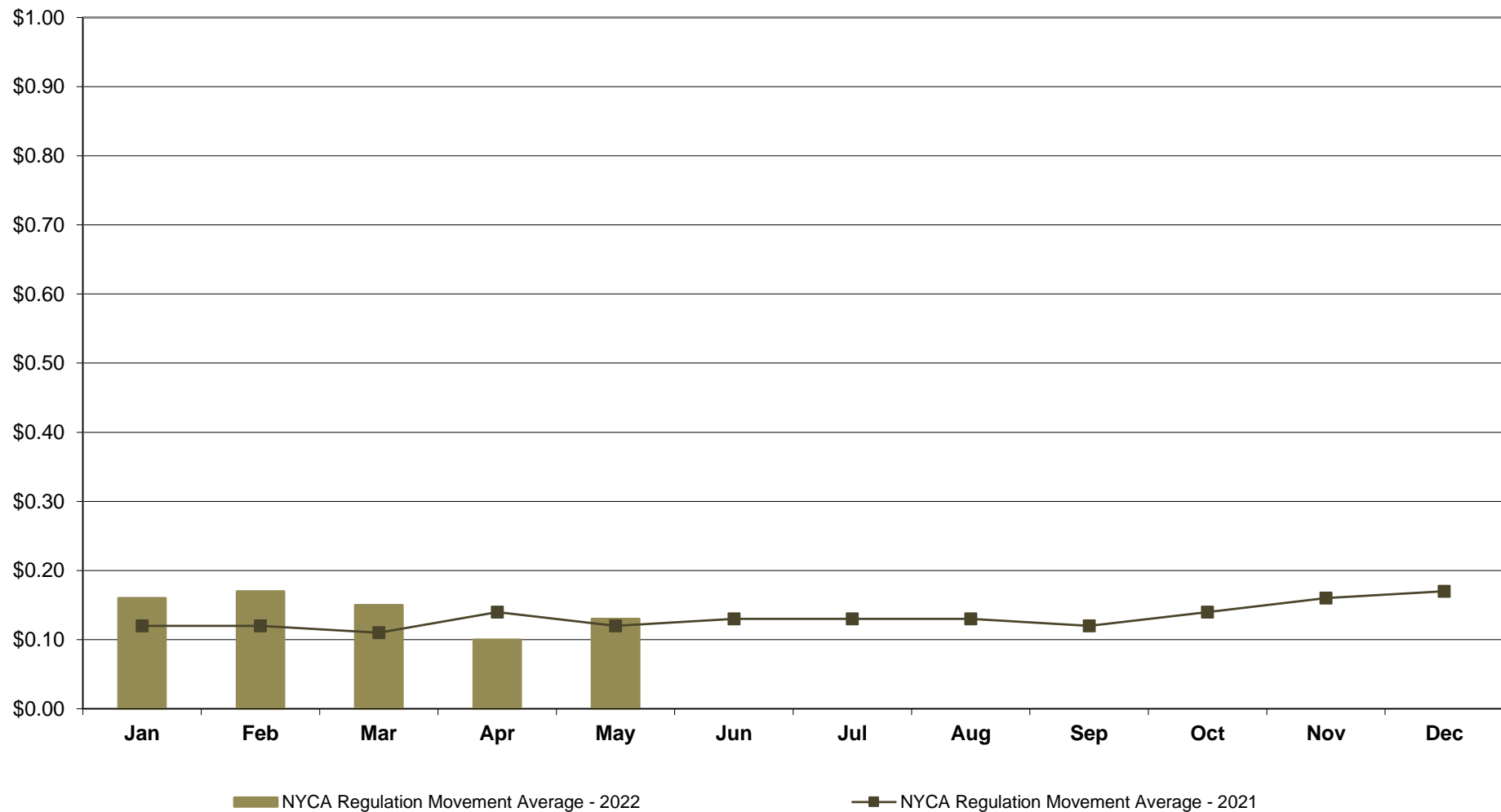
NYISO Monthly Average Ancillary Service Prices Real Time Market - 30 Min Op Res 2021 - 2022



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



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



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

| <u>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>Day Ahead Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 14.40 | 11.34 | 6.76 | 6.79 | 6.32 | | | | | | | |
| 10 Min Spin NYC (J) | 15.32 | 12.52 | 7.29 | 6.80 | 7.01 | | | | | | | |
| 10 Min Spin SENY (GHI) | 14.40 | 11.34 | 6.76 | 6.79 | 6.32 | | | | | | | |
| 10 Min Spin East (F) | 14.37 | 11.30 | 6.74 | 6.70 | 6.28 | | | | | | | |
| 10 Min Spin West (ABCDE) | 12.74 | 8.93 | 5.48 | 5.01 | 4.34 | | | | | | | |
| 10 Min Non Synch Long Island (K) | 9.70 | 9.48 | 5.68 | 4.87 | 4.68 | | | | | | | |
| 10 Min Non Synch NYC (J) | 10.61 | 10.66 | 6.20 | 4.89 | 5.38 | | | | | | | |
| 10 Min Non Synch SENY (GHI) | 9.70 | 9.48 | 5.68 | 4.87 | 4.68 | | | | | | | |
| 10 Min Non Synch East (F) | 9.66 | 9.44 | 5.66 | 4.78 | 4.64 | | | | | | | |
| 10 Min Non Synch West (ABCDE) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | | | | | | | |
| 30 Min Long Island (K) | 8.92 | 7.40 | 4.67 | 4.59 | 4.19 | | | | | | | |
| 30 Min NYC (J) | 8.95 | 7.42 | 4.67 | 4.59 | 4.21 | | | | | | | |
| 30 Min SENY (GHI) | 8.92 | 7.40 | 4.67 | 4.59 | 4.19 | | | | | | | |
| 30 Min East (F) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | | | | | | | |
| 30 Min West (ABCDE) | 8.88 | 7.35 | 4.66 | 4.50 | 4.15 | | | | | | | |
| Regulation | 35.17 | 19.48 | 12.56 | 8.94 | 10.61 | | | | | | | |
| <u>2021</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| <u>Day Ahead Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 4.61 | 7.85 | 4.46 | 3.80 | 3.78 | 3.91 | 3.80 | 4.06 | 4.05 | 6.61 | 6.27 | 5.33 |
| 10 Min Spin NYC (J) | 4.68 | 8.01 | 4.46 | 3.81 | 3.80 | 4.38 | 4.14 | 4.51 | 4.19 | 6.69 | 6.60 | 5.56 |
| 10 Min Spin SENY (GHI) | 4.61 | 7.85 | 4.46 | 3.80 | 3.78 | 3.91 | 3.80 | 4.06 | 4.05 | 6.61 | 6.27 | 5.33 |
| 10 Min Spin East (F) | 4.61 | 7.85 | 4.46 | 3.80 | 3.78 | 3.89 | 3.64 | 3.87 | 3.92 | 6.49 | 6.26 | 5.32 |
| 10 Min Spin West (ABCDE) | 4.01 | 6.68 | 4.07 | 3.56 | 3.43 | 3.64 | 3.40 | 3.54 | 3.62 | 4.84 | 4.75 | 3.97 |
| 10 Min Non Synch Long Island (K) | 3.32 | 5.58 | 3.60 | 3.25 | 3.27 | 3.47 | 3.46 | 3.68 | 3.47 | 4.56 | 4.37 | 3.82 |
| 10 Min Non Synch NYC (J) | 3.40 | 5.74 | 3.60 | 3.26 | 3.30 | 3.93 | 3.80 | 4.14 | 3.60 | 4.64 | 4.69 | 4.05 |
| 10 Min Non Synch SENY (GHI) | 3.32 | 5.58 | 3.60 | 3.25 | 3.27 | 3.47 | 3.46 | 3.68 | 3.47 | 4.56 | 4.37 | 3.82 |
| 10 Min Non Synch East (F) | 3.32 | 5.58 | 3.60 | 3.25 | 3.27 | 3.45 | 3.31 | 3.50 | 3.34 | 4.44 | 4.35 | 3.81 |
| 10 Min Non Synch West (ABCDE) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.31 | 3.19 | 3.31 | 3.27 | 4.14 | 4.01 | 3.70 |
| 30 Min Long Island (K) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.33 | 3.34 | 3.49 | 3.41 | 4.25 | 4.02 | 3.71 |
| 30 Min NYC (J) | 3.23 | 5.25 | 3.57 | 3.19 | 3.18 | 3.53 | 3.40 | 3.62 | 3.41 | 4.27 | 4.02 | 3.71 |
| 30 Min SENY (GHI) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.33 | 3.34 | 3.49 | 3.41 | 4.25 | 4.02 | 3.71 |
| 30 Min East (F) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.31 | 3.19 | 3.31 | 3.27 | 4.14 | 4.01 | 3.70 |
| 30 Min West (ABCDE) | 3.22 | 5.25 | 3.57 | 3.19 | 3.17 | 3.31 | 3.19 | 3.31 | 3.27 | 4.14 | 4.01 | 3.70 |
| Regulation | 6.40 | 10.93 | 7.21 | 6.72 | 5.50 | 5.55 | 5.13 | 4.98 | 6.29 | 8.27 | 10.13 | 8.47 |

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

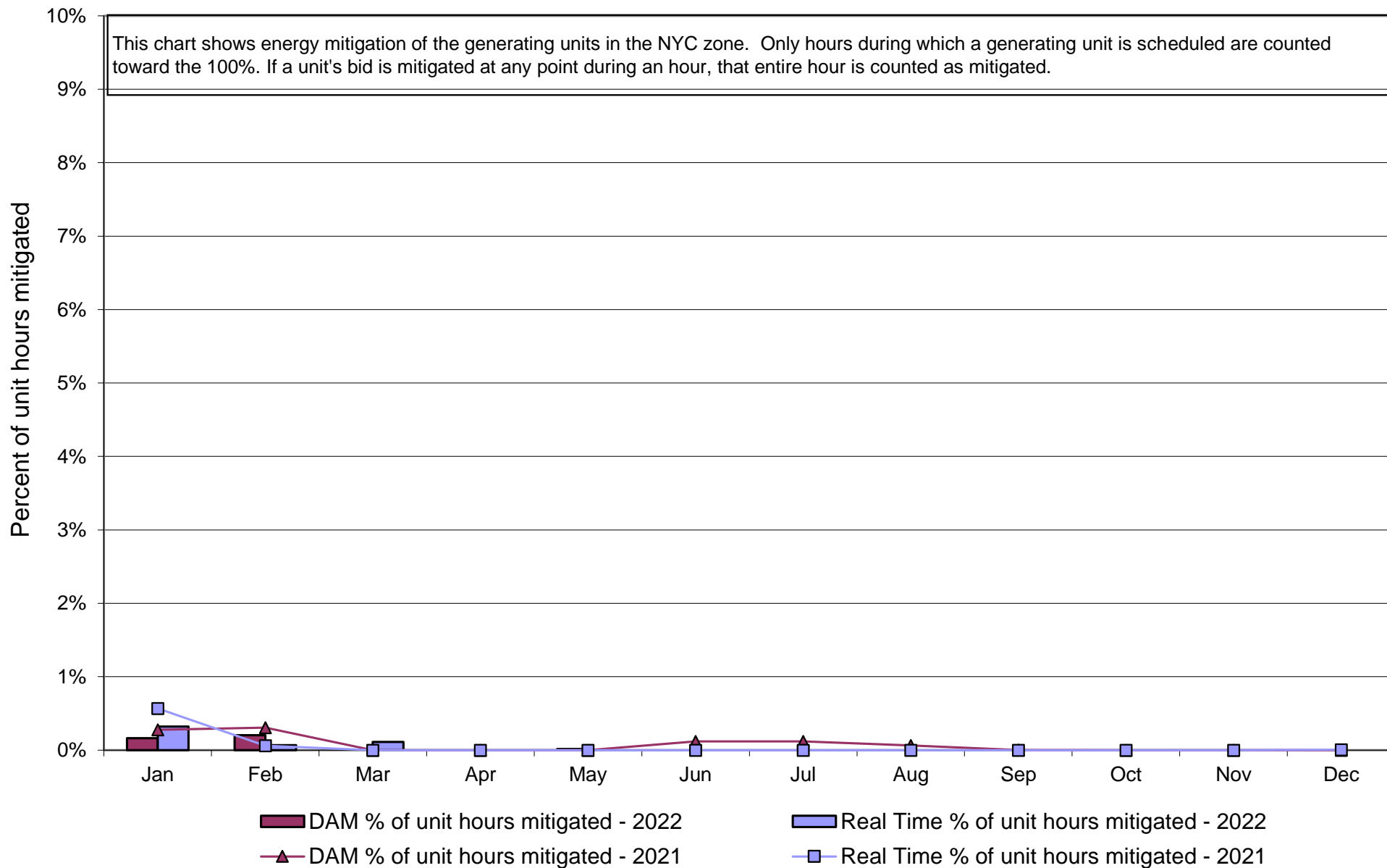
| <u>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>RTC Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 11.75 | 7.55 | 4.73 | 2.39 | 3.15 | | | | | | | |
| 10 Min Spin NYC (J) | 11.75 | 7.81 | 4.92 | 2.53 | 3.72 | | | | | | | |
| 10 Min Spin SENY (GHI) | 11.75 | 7.55 | 4.73 | 2.39 | 3.15 | | | | | | | |
| 10 Min Spin East (F) | 11.68 | 7.55 | 4.71 | 2.36 | 2.98 | | | | | | | |
| 10 Min Spin West (ABCDE) | 7.59 | 5.49 | 1.27 | 1.03 | 1.75 | | | | | | | |
| 10 Min Non Synch Long Island (K) | 3.67 | 0.69 | 2.97 | 0.37 | 1.47 | | | | | | | |
| 10 Min Non Synch NYC (J) | 3.67 | 0.95 | 3.16 | 0.51 | 2.04 | | | | | | | |
| 10 Min Non Synch SENY (GHI) | 3.67 | 0.69 | 2.97 | 0.37 | 1.47 | | | | | | | |
| 10 Min Non Synch East (F) | 3.60 | 0.69 | 2.96 | 0.33 | 1.31 | | | | | | | |
| 10 Min Non Synch West (ABCDE) | 1.79 | 0.24 | 0.29 | 0.30 | 1.00 | | | | | | | |
| 30 Min Long Island (K) | 1.55 | 0.24 | 0.31 | 0.34 | 1.17 | | | | | | | |
| 30 Min NYC (J) | 1.55 | 0.24 | 0.31 | 0.34 | 1.34 | | | | | | | |
| 30 Min SENY (GHI) | 1.55 | 0.24 | 0.31 | 0.34 | 1.17 | | | | | | | |
| 30 Min East (F) | 1.48 | 0.24 | 0.29 | 0.30 | 1.00 | | | | | | | |
| 30 Min West (ABCDE) | 1.48 | 0.24 | 0.29 | 0.30 | 1.00 | | | | | | | |
| Regulation | 31.59 | 17.95 | 12.23 | 7.77 | 8.36 | | | | | | | |
| NYCA Regulation Movement | 0.16 | 0.17 | 0.14 | 0.10 | 0.13 | | | | | | | |
| <u>2021</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| <u>RTC Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 1.65 | 1.53 | 1.29 | 0.58 | 0.61 | 2.86 | 1.25 | 2.21 | 1.04 | 1.59 | 2.18 | 2.42 |
| 10 Min Spin NYC (J) | 1.65 | 1.53 | 1.29 | 0.58 | 0.91 | 4.26 | 1.34 | 2.59 | 1.37 | 1.63 | 2.48 | 2.48 |
| 10 Min Spin SENY (GHI) | 1.65 | 1.53 | 1.29 | 0.58 | 0.61 | 2.86 | 1.25 | 2.21 | 1.04 | 1.59 | 2.18 | 2.42 |
| 10 Min Spin East (F) | 1.65 | 1.53 | 1.29 | 0.58 | 0.61 | 2.73 | 1.14 | 2.01 | 0.64 | 1.57 | 2.18 | 2.42 |
| 10 Min Spin West (ABCDE) | 1.16 | 0.93 | 0.88 | 0.22 | 0.07 | 1.51 | 0.32 | 1.69 | 0.11 | 0.30 | 0.82 | 1.22 |
| 10 Min Non Synch Long Island (K) | 0.49 | 0.00 | 0.02 | 0.00 | 0.05 | 2.40 | 1.11 | 2.02 | 0.45 | 0.09 | 0.29 | 0.05 |
| 10 Min Non Synch NYC (J) | 0.49 | 0.00 | 0.02 | 0.00 | 0.35 | 3.80 | 1.20 | 2.40 | 0.79 | 0.13 | 0.59 | 0.11 |
| 10 Min Non Synch SENY (GHI) | 0.49 | 0.00 | 0.02 | 0.00 | 0.05 | 2.40 | 1.11 | 2.02 | 0.45 | 0.09 | 0.29 | 0.05 |
| 10 Min Non Synch East (F) | 0.49 | 0.00 | 0.02 | 0.00 | 0.05 | 2.27 | 1.01 | 1.83 | 0.06 | 0.07 | 0.29 | 0.05 |
| 10 Min Non Synch West (ABCDE) | 0.26 | 0.00 | 0.01 | 0.00 | 0.00 | 1.42 | 0.30 | 1.67 | 0.04 | 0.05 | 0.05 | 0.00 |
| 30 Min Long Island (K) | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 1.56 | 0.36 | 1.86 | 0.44 | 0.07 | 0.05 | 0.00 |
| 30 Min NYC (J) | 0.10 | 0.00 | 0.01 | 0.00 | 0.12 | 2.34 | 0.37 | 1.90 | 0.46 | 0.07 | 0.05 | 0.00 |
| 30 Min SENY (GHI) | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 1.56 | 0.36 | 1.86 | 0.44 | 0.07 | 0.05 | 0.00 |
| 30 Min East (F) | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 1.42 | 0.26 | 1.67 | 0.04 | 0.05 | 0.05 | 0.00 |
| 30 Min West (ABCDE) | 0.10 | 0.00 | 0.01 | 0.00 | 0.00 | 1.42 | 0.26 | 1.67 | 0.04 | 0.05 | 0.05 | 0.00 |
| Regulation | 6.46 | 8.02 | 9.88 | 6.54 | 5.08 | 6.69 | 5.18 | 8.22 | 5.86 | 6.83 | 9.37 | 10.10 |
| NYCA Regulation Movement | 0.12 | 0.12 | 0.11 | 0.14 | 0.12 | 0.13 | 0.13 | 0.13 | 0.12 | 0.14 | 0.16 | 0.17 |

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

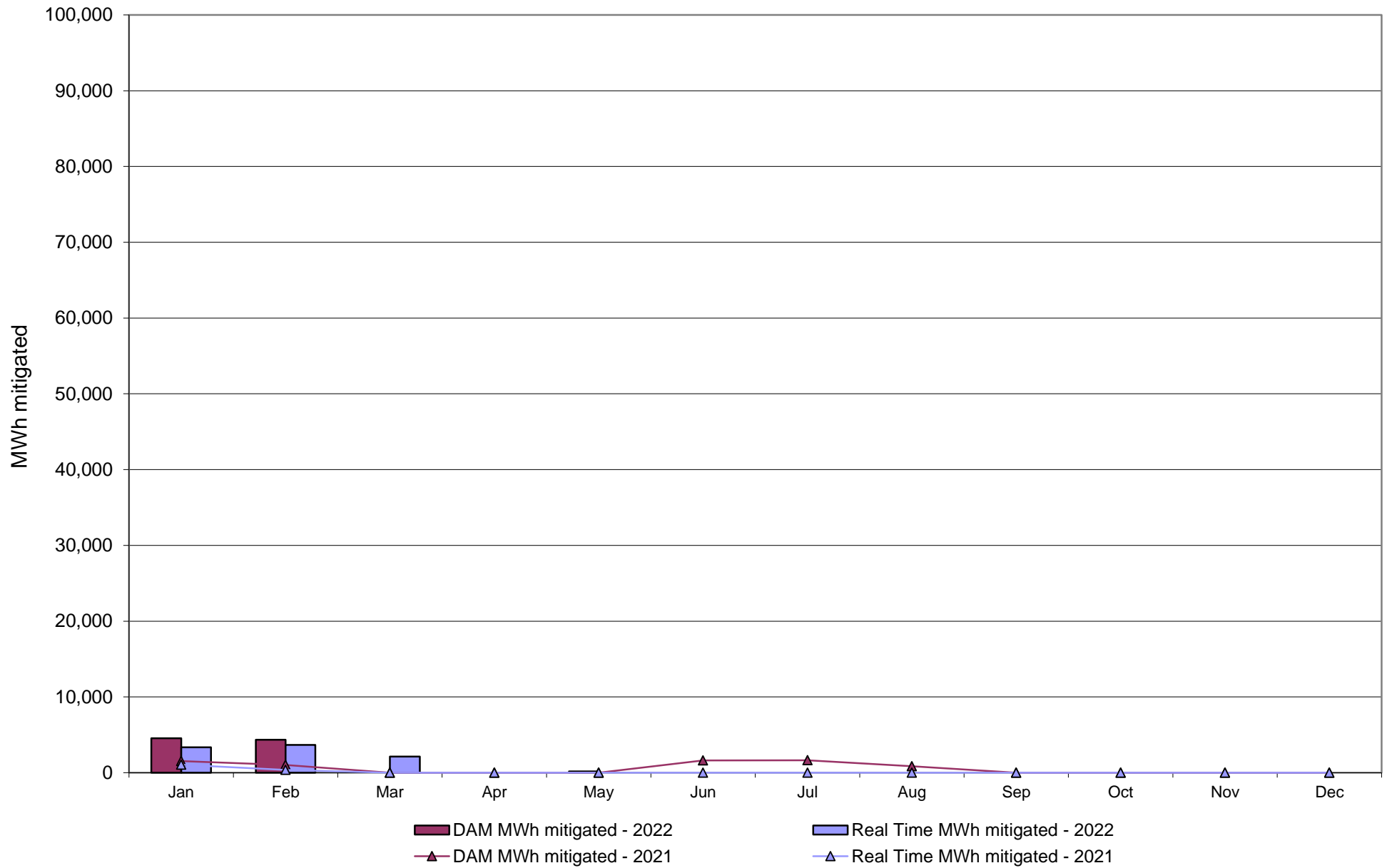
| <u>2022</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
|----------------------------------|----------------|-----------------|--------------|--------------|------------|-------------|-------------|---------------|------------------|----------------|-----------------|-----------------|
| <u>Real Time Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 17.99 | 9.02 | 6.90 | 3.15 | 2.68 | | | | | | | |
| 10 Min Spin NYC (J) | 18.04 | 9.27 | 7.04 | 3.27 | 3.17 | | | | | | | |
| 10 Min Spin SENY (GHI) | 17.99 | 9.02 | 6.90 | 3.15 | 2.68 | | | | | | | |
| 10 Min Spin East (F) | 17.97 | 9.02 | 6.90 | 3.15 | 2.62 | | | | | | | |
| 10 Min Spin West (ABCDE) | 13.47 | 7.56 | 2.14 | 1.83 | 1.76 | | | | | | | |
| 10 Min Non Synch Long Island (K) | 5.34 | 0.59 | 4.05 | 0.40 | 0.43 | | | | | | | |
| 10 Min Non Synch NYC (J) | 5.40 | 0.84 | 4.19 | 0.51 | 0.92 | | | | | | | |
| 10 Min Non Synch SENY (GHI) | 5.34 | 0.59 | 4.05 | 0.40 | 0.43 | | | | | | | |
| 10 Min Non Synch East (F) | 5.33 | 0.59 | 4.05 | 0.40 | 0.37 | | | | | | | |
| 10 Min Non Synch West (ABCDE) | 2.46 | 0.20 | 0.19 | 0.29 | 0.34 | | | | | | | |
| 30 Min Long Island (K) | 1.42 | 0.20 | 0.16 | 0.29 | 0.40 | | | | | | | |
| 30 Min NYC (J) | 1.42 | 0.20 | 0.16 | 0.29 | 0.56 | | | | | | | |
| 30 Min SENY (GHI) | 1.42 | 0.20 | 0.16 | 0.29 | 0.40 | | | | | | | |
| 30 Min East (F) | 1.41 | 0.20 | 0.16 | 0.29 | 0.34 | | | | | | | |
| 30 Min West (ABCDE) | 1.41 | 0.20 | 0.16 | 0.29 | 0.34 | | | | | | | |
| Regulation | 33.92 | 18.10 | 11.81 | 8.22 | 8.23 | | | | | | | |
| NYCA Regulation Movement | 0.16 | 0.17 | 0.15 | 0.10 | 0.13 | | | | | | | |
| <u>2021</u> | <u>January</u> | <u>February</u> | <u>March</u> | <u>April</u> | <u>May</u> | <u>June</u> | <u>July</u> | <u>August</u> | <u>September</u> | <u>October</u> | <u>November</u> | <u>December</u> |
| <u>Real Time Market</u> | | | | | | | | | | | | |
| 10 Min Spin Long Island (K) | 3.75 | 2.96 | 3.57 | 1.51 | 0.90 | 2.38 | 1.67 | 1.38 | 0.80 | 2.62 | 4.53 | 4.99 |
| 10 Min Spin NYC (J) | 3.75 | 2.96 | 3.57 | 1.51 | 1.16 | 3.77 | 1.78 | 1.71 | 1.13 | 2.70 | 4.90 | 5.07 |
| 10 Min Spin SENY (GHI) | 3.75 | 2.96 | 3.57 | 1.51 | 0.90 | 2.38 | 1.67 | 1.38 | 0.80 | 2.62 | 4.53 | 4.99 |
| 10 Min Spin East (F) | 3.75 | 2.96 | 3.57 | 1.51 | 0.90 | 2.35 | 1.60 | 1.28 | 0.52 | 2.59 | 4.53 | 4.99 |
| 10 Min Spin West (ABCDE) | 2.64 | 2.03 | 2.78 | 0.49 | 0.15 | 1.25 | 0.39 | 0.99 | 0.16 | 1.01 | 2.75 | 3.49 |
| 10 Min Non Synch Long Island (K) | 1.13 | 0.02 | 0.03 | 0.12 | 0.16 | 1.68 | 1.44 | 1.06 | 0.32 | 0.10 | 0.26 | 0.21 |
| 10 Min Non Synch NYC (J) | 1.13 | 0.02 | 0.03 | 0.12 | 0.42 | 3.07 | 1.56 | 1.39 | 0.64 | 0.18 | 0.63 | 0.29 |
| 10 Min Non Synch SENY (GHI) | 1.13 | 0.02 | 0.03 | 0.12 | 0.16 | 1.68 | 1.44 | 1.06 | 0.32 | 0.10 | 0.26 | 0.21 |
| 10 Min Non Synch East (F) | 1.13 | 0.02 | 0.03 | 0.12 | 0.16 | 1.65 | 1.38 | 0.97 | 0.04 | 0.07 | 0.26 | 0.21 |
| 10 Min Non Synch West (ABCDE) | 0.40 | 0.00 | 0.02 | 0.00 | 0.02 | 1.04 | 0.27 | 0.82 | 0.03 | 0.05 | 0.08 | 0.00 |
| 30 Min Long Island (K) | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 1.06 | 0.35 | 0.91 | 0.31 | 0.08 | 0.08 | 0.00 |
| 30 Min NYC (J) | 0.05 | 0.00 | 0.02 | 0.00 | 0.12 | 1.84 | 0.36 | 0.93 | 0.31 | 0.08 | 0.08 | 0.00 |
| 30 Min SENY (GHI) | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 1.06 | 0.35 | 0.91 | 0.31 | 0.08 | 0.08 | 0.00 |
| 30 Min East (F) | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 1.04 | 0.28 | 0.82 | 0.03 | 0.05 | 0.08 | 0.00 |
| 30 Min West (ABCDE) | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 1.04 | 0.27 | 0.82 | 0.03 | 0.05 | 0.08 | 0.00 |
| Regulation | 7.39 | 9.17 | 10.23 | 6.78 | 5.31 | 6.24 | 5.25 | 7.54 | 6.03 | 7.43 | 10.62 | 10.05 |
| NYCA Regulation Movement | 0.12 | 0.12 | 0.11 | 0.14 | 0.12 | 0.13 | 0.13 | 0.13 | 0.12 | 0.14 | 0.16 | 0.17 |

NYISO In City Energy Mitigation - AMP (NYC Zone) 2021 - 2022

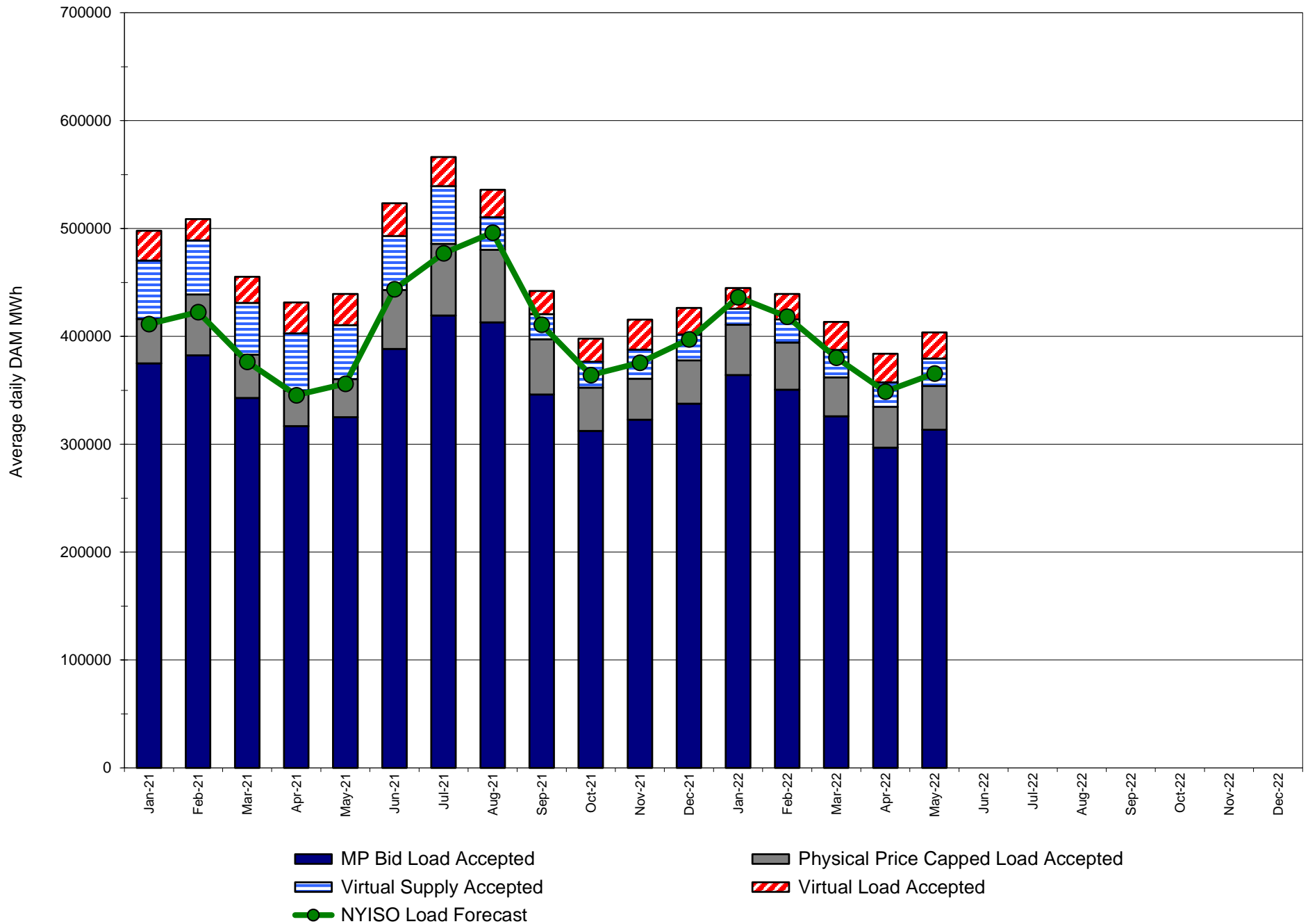
Percentage of committed unit-hours mitigated



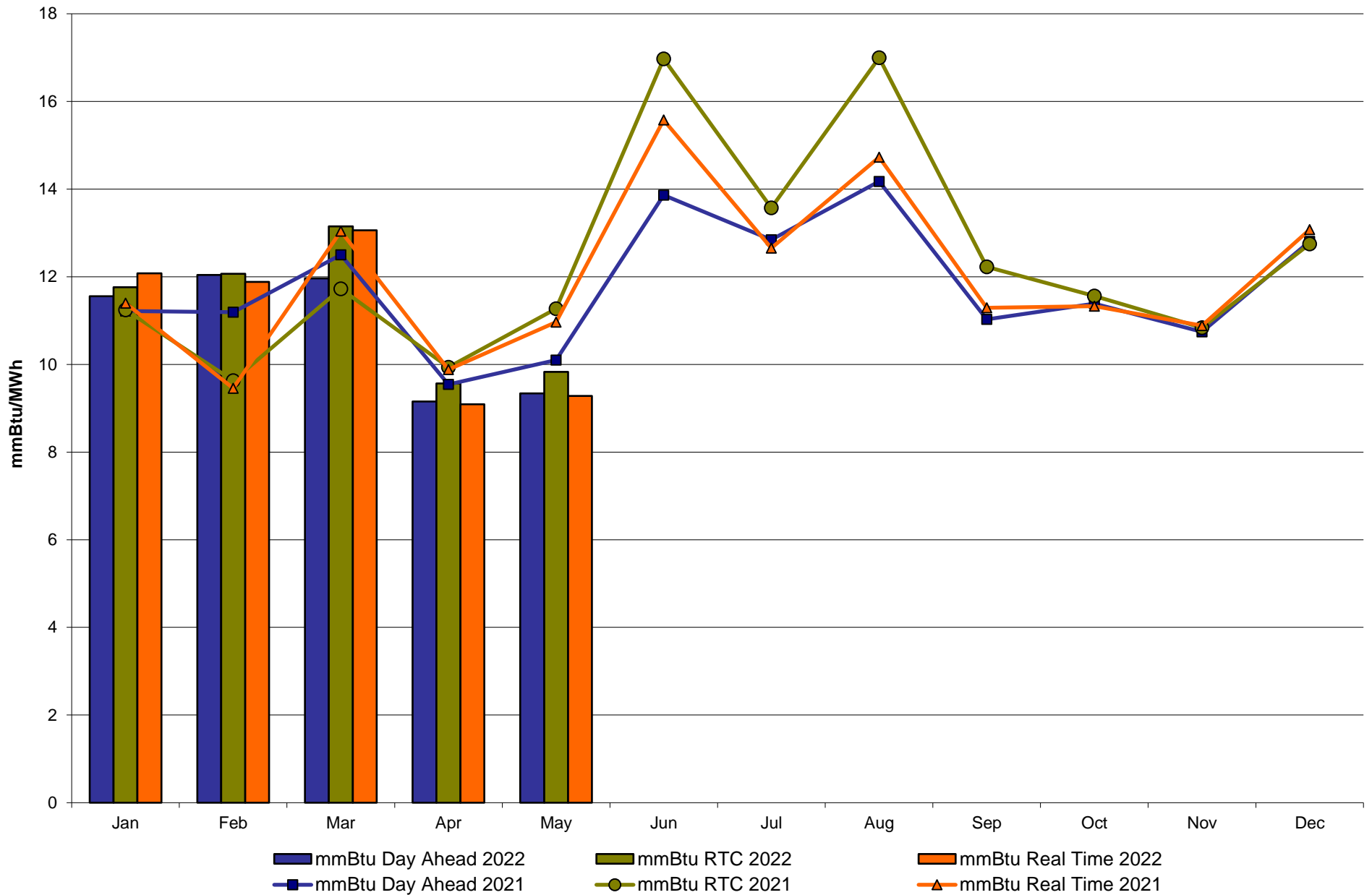
NYISO In City Energy Mitigation (NYC Zone) 2021 - 2022 **Monthly megawatt hours mitigated**



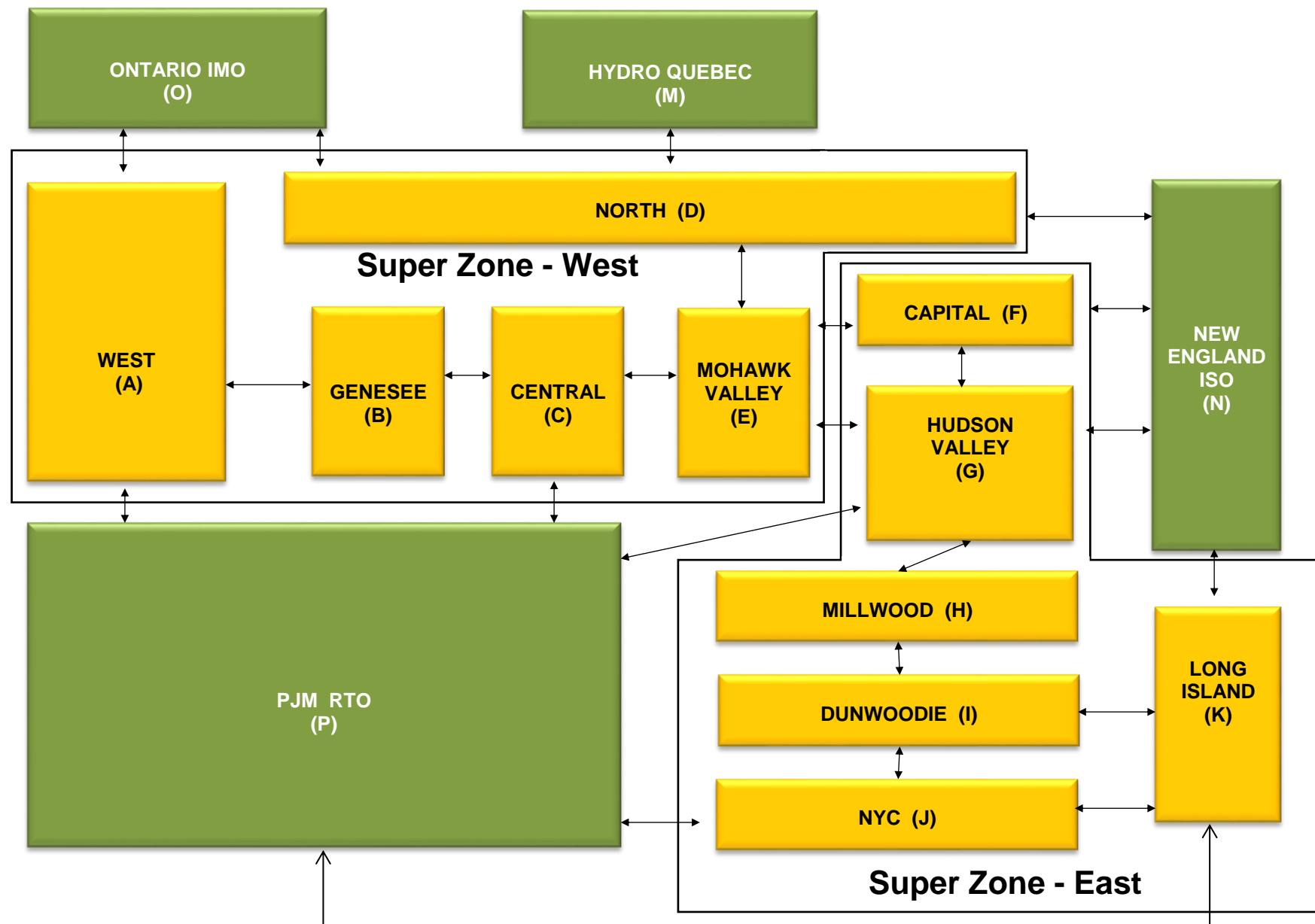
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2021-2022



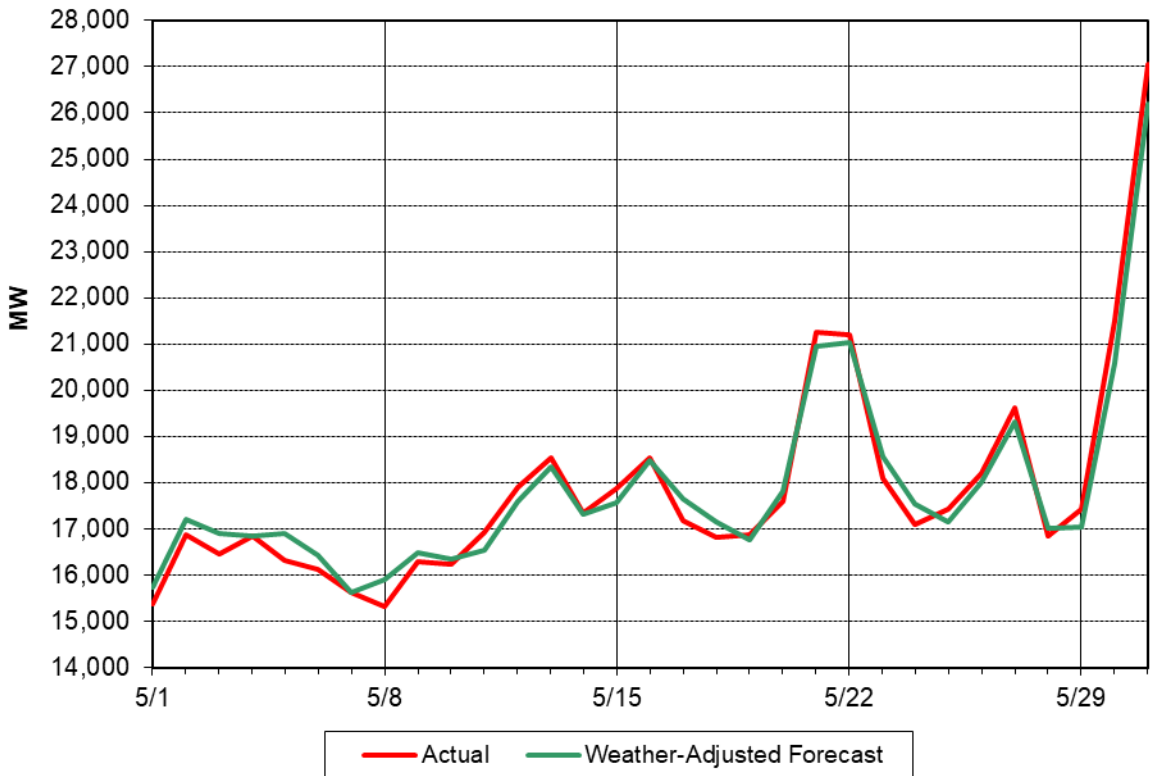
NYISO LBMP ZONES



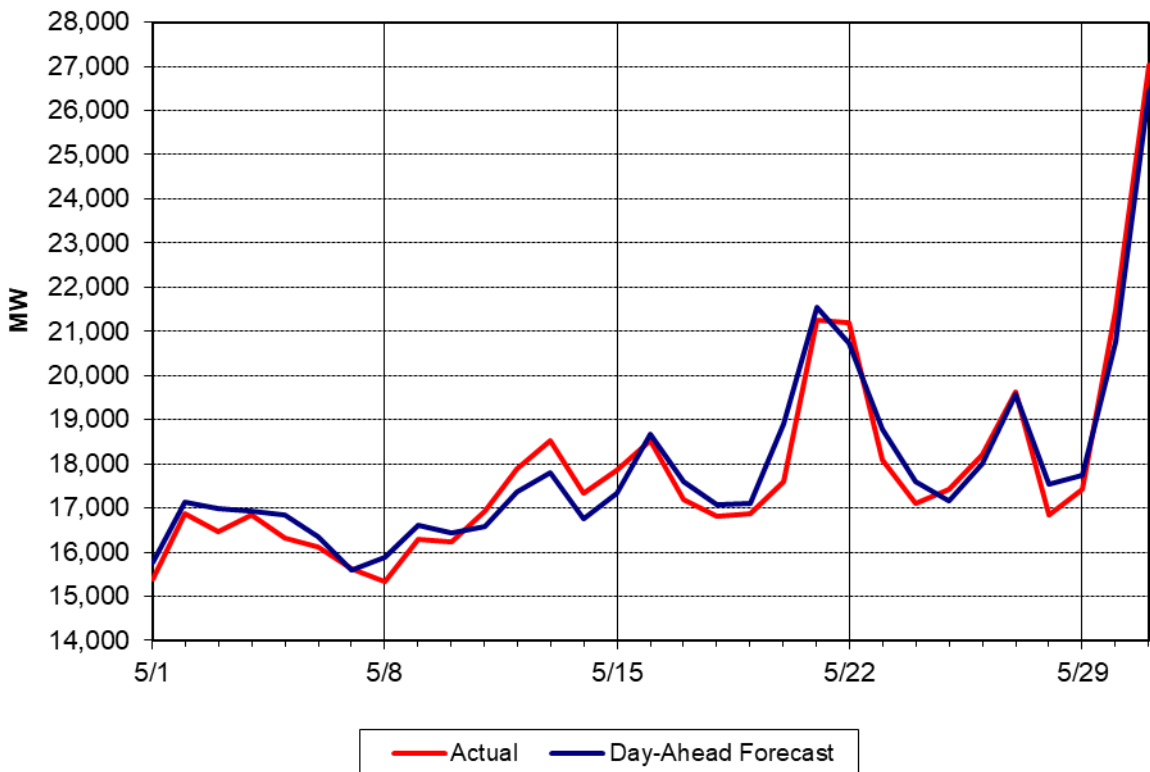
Billing Codes for Chart C

| <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 |

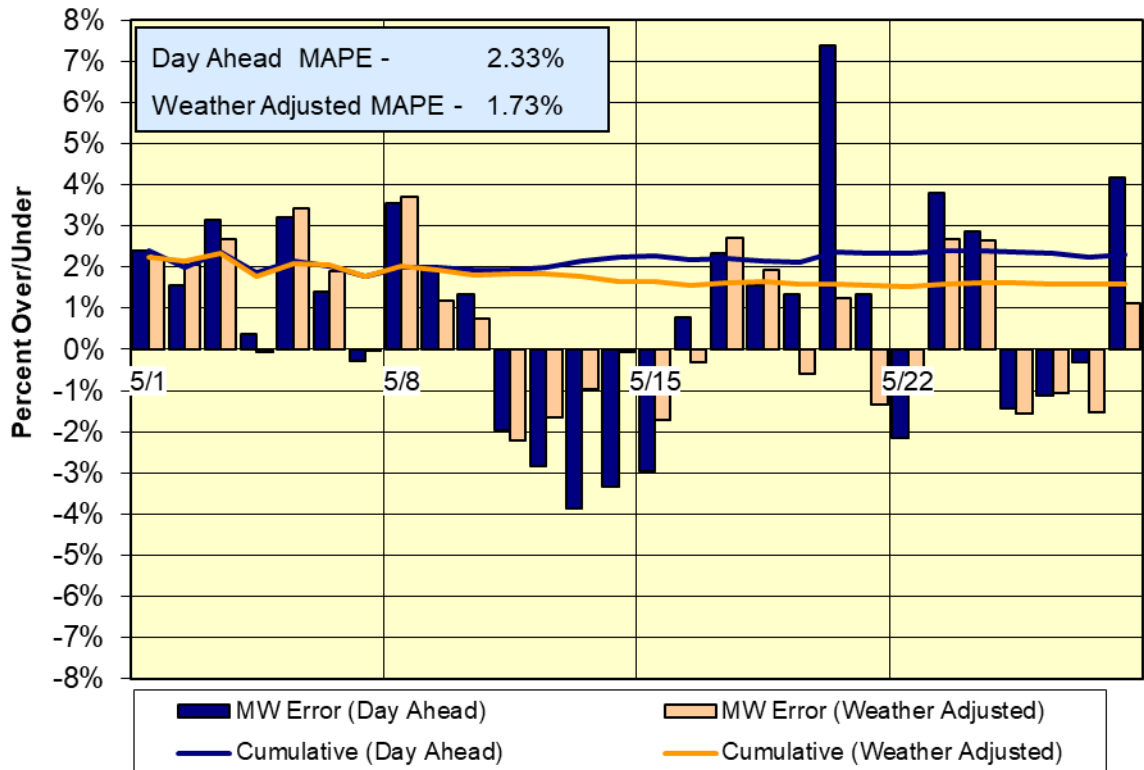
NYISO Daily Peak Load - May 2022
Actual vs. Weather-Adjusted Forecast



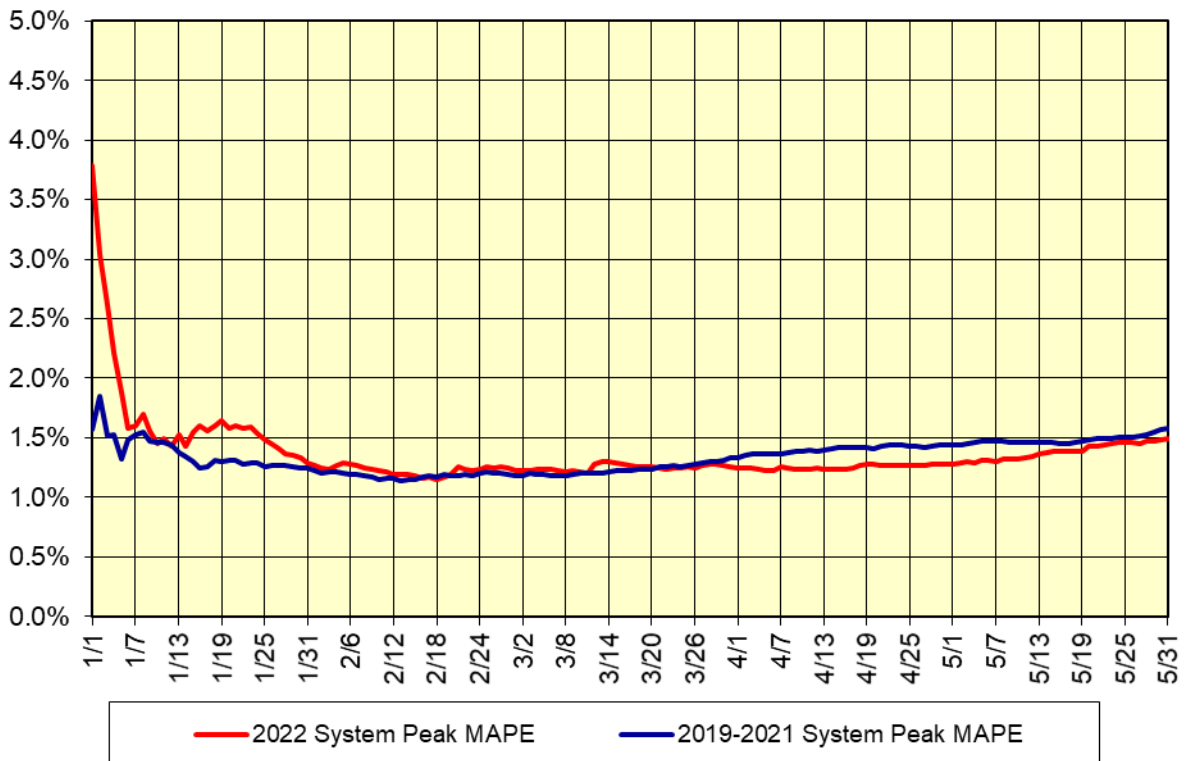
NYISO Daily Peak Load - May 2022
Actual vs. Forecast



Day Ahead Peak Forecast - May 2022 Percent Error - Actual & Weather-Adjusted



Day-Ahead Forecast Accuracy - Cumulative Performance 2022 Year-to-Date



Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – May 2022

| Filing Date | Filing Summary | Docket | Order Summary | Order Date |
|--------------------|---|---------------|---|-------------------|
| 03/07/2022 | NYISO-National Grid joint Section 205 filing to FERC of a Small Generator Interconnection Agreement among NYISO, NMPC and KCE NY6 for the KCE NY6 Battery Storage Project | ER22-1207-000 | An Order accepted the submission, effective February 18, 2022, as requested | 05/05/2022 |
| 03/09/2021 | NYISO compliance filing to FERC of a notice to set an early effective date for Distributed Energy Resources revisions to real-time telemetry provisions to accommodate implementation of Co-located Storage Resources | ER19-2276-004 | An Order accepted the submission, effective March 31, 2021, as requested | 05/06/2022 |
| 03/11/2022 | NYISO's initial Section 205 filing and filing to FERC of a response to FERC's February 9, 2022 deficiency letter requesting additional information related to NYISO's proposed tariff revisions addressing Buyer-Side Mitigation reforms and Capacity Accreditation Market Design | ER22-772-001 | An order accepted the submission, effective May 11, 2022, as requested, and directed further compliance filings | 05/10/2022 |
| 03/29/2022 | NYISO-National Grid joint Section 205 filing to FERC of a Small Generator Interconnection Agreement among NYISO, National Grid and ELP Ticonderoga Solar for Ticonderoga Solar Project | ER22-1489-000 | An Order accepted the submission, effective March 15, 2022, as requested | 05/16/2022 |
| 05/10/2022 | The ISO/RTO Council and Trade Associations filing to FERC of request for a 15-day extension to file comments on FERC's NOPR re: Building for the Future Through Electric Regional Transmission Planning and Cost Allocation and Generator Interconnection | RM21-17-000 | An order granted the ISO/RTO Council extension request | 05/25/2022 |
| 03/31/2022 | Joint NYISO-National Grid Section 205 filing to FERC of a Small Generator Interconnection Agreement among NYISO, National Grid and ELP Stillwater Solar for Stillwater Solar Project | ER22-1515-000 | An Order accepted the submission, effective March 21, 2022, as requested | 05/26/2022 |
| 03/28/2022 | NYISO-NYSEG joint Section 205 filing to FERC of a Large Generator Interconnection Agreement among NYISO, NYSEG and High Bridge Wind for High Bridge Wind Project | ER22-1472-000 | An Order accepted the submission, effective March 31, 2022, as requested | 05/26/2022 |

| Filing Date | Filing Summary | Docket | Order Summary | Order Date |
|--------------------|--|-------------------------------|----------------------|-------------------|
| 05/06/2022 | NYISO filing on behalf of the New York Power Authority to FERC of NYPA's response to the April 7, 2022 deficiency letter regarding NYPA's February 10, 2022 filing of request for incentive rate treatments and corresponding revisions to NYPA's formula rate | ER22-1014-001 | | |
| 05/13/2022 | NYISO informational filing to FERC of interconnection study metrics for the 1st quarter of 2022, consistent with the requirements of Order Nos. 845 and 845-A | ER19-1949-000 | | |
| 05/16/2022 | NYISO filing on behalf of Nation Grid to FERC of National Grid's response to the April 28, 2022 deficiency letter regarding May 16, 2022 filing of Smart Path Connect Project Cost Recovery and Incentive Rate Treatment tariff revisions | ER22-1201-001 | | |
| 05/17/2022 | NYISO filing to FERC of an executed Large Generator Interconnection Agreement for the Calverton Solar Energy Center project, entered into by the NYISO, Long Island Lighting Company | ER22-1887-000 | | |
| 05/18/2022 | NYISO compliance filing to FERC of an errata to correct ministerial errors in tariff sections filed April 6, 2022 in a compliance filing pertaining to NAESB WEQ business practices standards | ER21-2526-003 | | |
| 05/20/2022 | NYISO filing on behalf of NEET New York to FERC, of proposed revisions to NEET New York's April 4, 2022 filing of a new depreciation rate | ER22-1571-001 | | |
| 05/26/2022 | NYISO filing to FERC of Form 714 Annual Electric Balancing Authority Area and Planning Area Report | No docket no. | | |
| 05/27/2022 | NYISO filing of behalf of Niagara Mohawk to FERC of a compliance filing in response to the March 31, 2022 order on Niagara Mohawk's Order No. 864 compliance filing | ER20-2051-003 | | |
| 05/27/2022 | NYISO compliance report of FERC Form 3Q Quarterly financial report of electric utilities, licensees, and natural gas companies | No Docket No. | | |
| 05/27/2022 | NYISO filing to the U. S. Court of Appeals for the DC Circuit of an Intervenor Brief in Hecate Energy Greene County 3 LLC v. FERC in the US Court of Appeals for the DC Circuit | D.C. Circuit Case No. 21-1102 | | |