

# Monthly Report

A Report by the  
New York Independent System Operator

**June 2022**

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# ***Operations Performance Metrics Monthly Report***



## ***June 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 July 11, 2022.

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## June 2022 Operations Performance Highlights

- June 2022 peak load of 24,563 MW occurred on 6/30/2022 HB 17
- Summer 2022 capability period peak load to date 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
- 1.1 hours of Thunderstorm Alerts were declared
- 0 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.
- NYISO began securing Niagara 345/230kV transformer banks AT4 & AT5 in the Real-Time Market on 06/01/2022 and in the Day-Ahead Market execution occurring on 06/02/2022 for the 06/03/2022 market day.

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

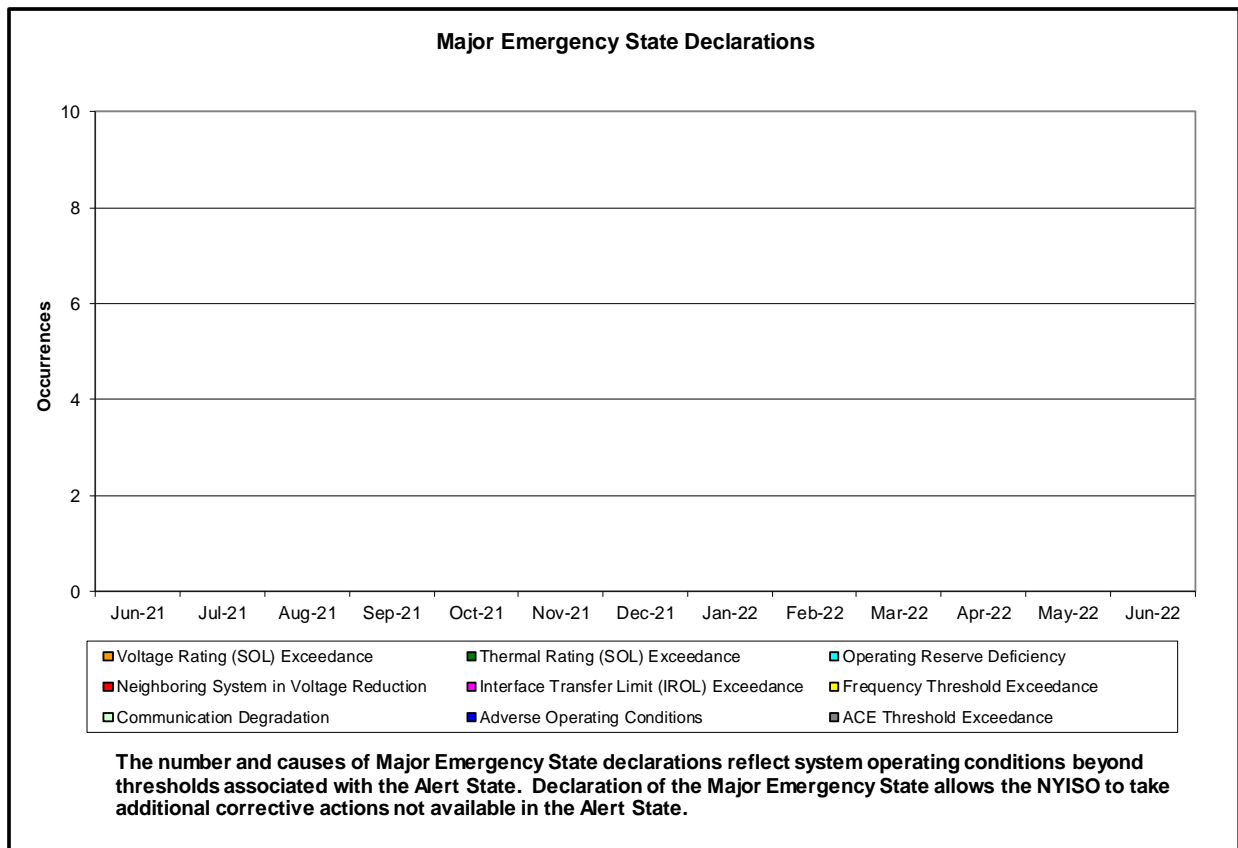
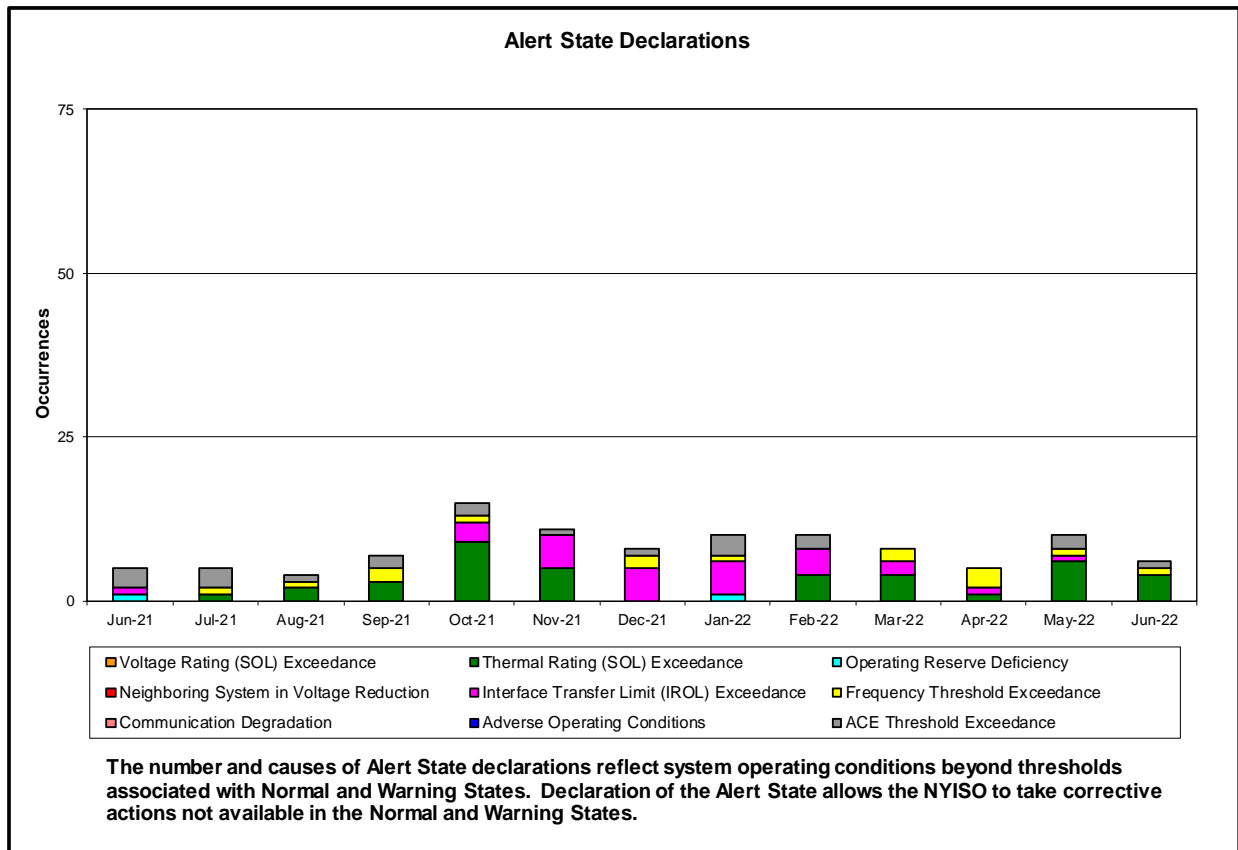
	Current Month Value (\$M)	Year-to-Date Value (\$M)
<b>NY Savings from PJM-NY Congestion Coordination</b>	\$2.79	\$23.15
<b>NY Savings from PJM-NY Coordinated Transaction Scheduling</b>	\$0.55	(\$0.59)
<b>NY Savings from NE-NY Coordinated Transaction Scheduling</b>	\$0.97	\$3.66
<b>Total NY Savings</b>	<b>\$4.31</b>	<b>\$26.22</b>
<b>Regional Savings from PJM-NY Coordinated Transaction Scheduling</b>	\$0.90	\$3.88
<b>Regional Savings from NE-NY Coordinated Transaction Scheduling</b>	\$0.24	\$2.17
<b>Total Regional Savings</b>	<b>\$1.14</b>	<b>\$6.05</b>

- Statewide uplift cost monthly average was (\$1.07)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

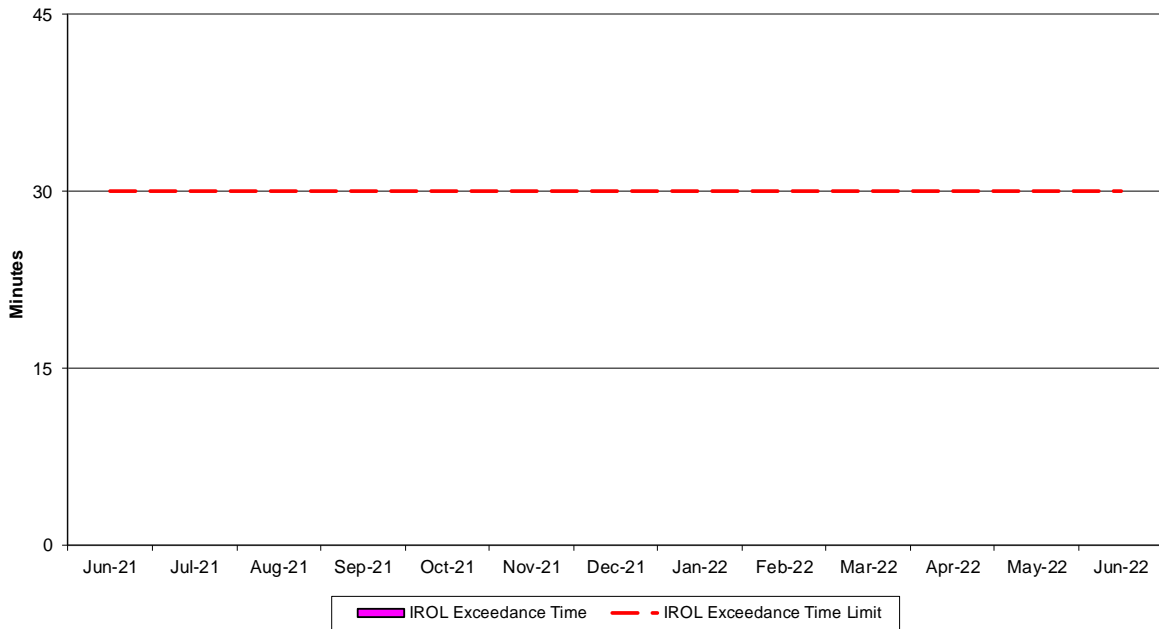
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
July 2022 Spot Price	\$3.32	\$3.32	\$3.55	\$6.71
June 2022 Spot Price	\$3.33	\$3.33	\$3.51	\$6.74
Delta	(\$0.01)	(\$0.01)	\$0.04	(\$0.03)

- No significant changes in market clearing price occurred since the June 2022 spot auction.

## Reliability Performance Metrics

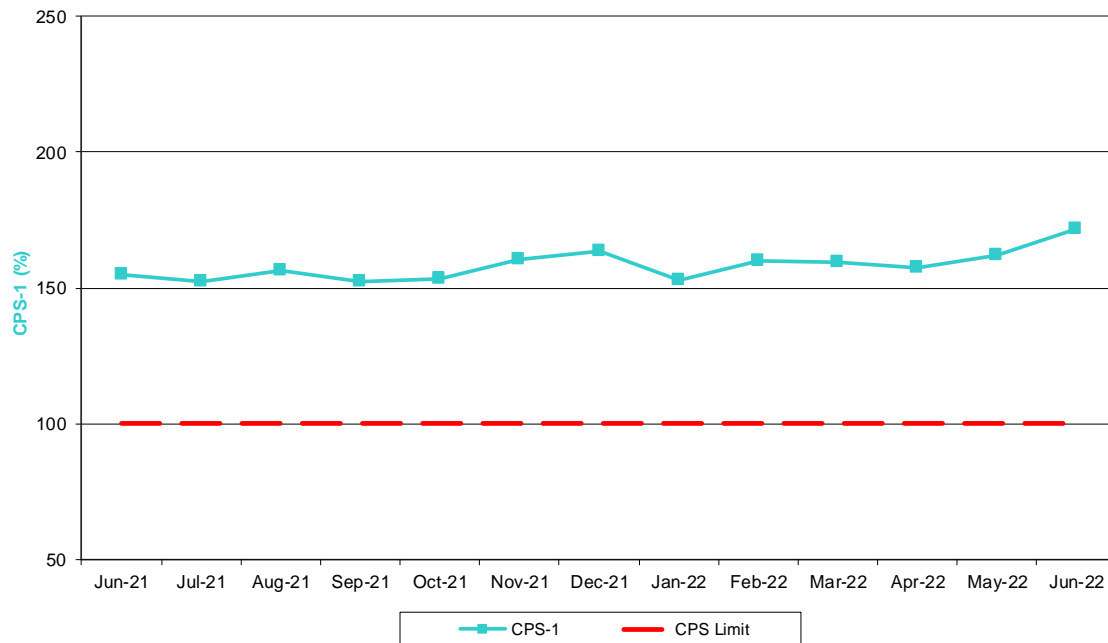


### NERC IROL Time Over Limit



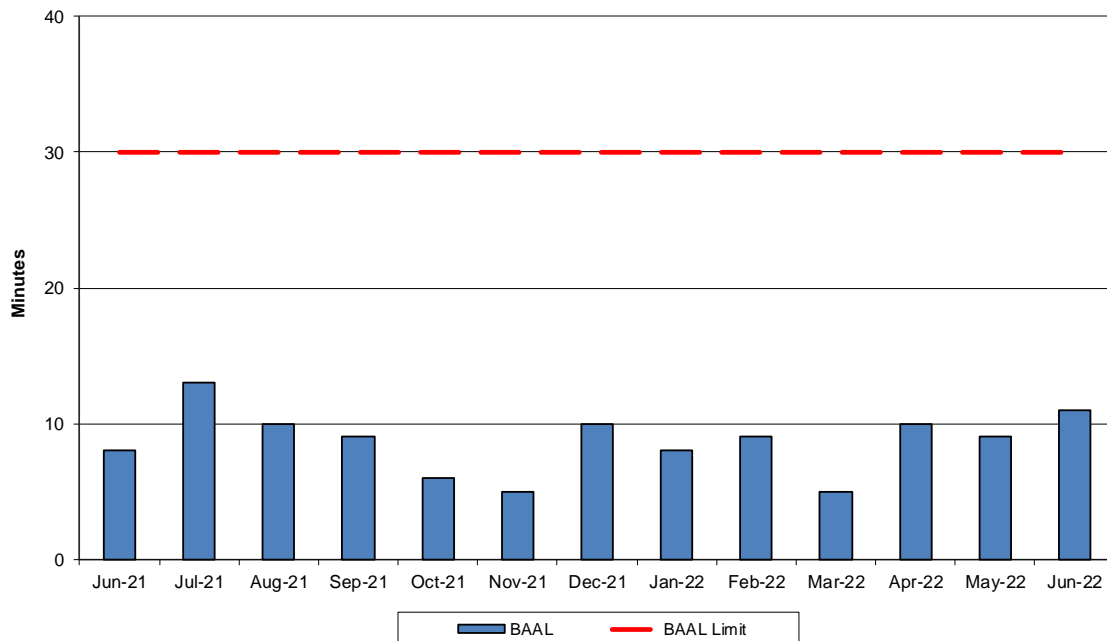
For IROL exceedances leading to Major Emergency State declarations, the maximum IROL exceedance time is identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

### NERC Control Performance Standards



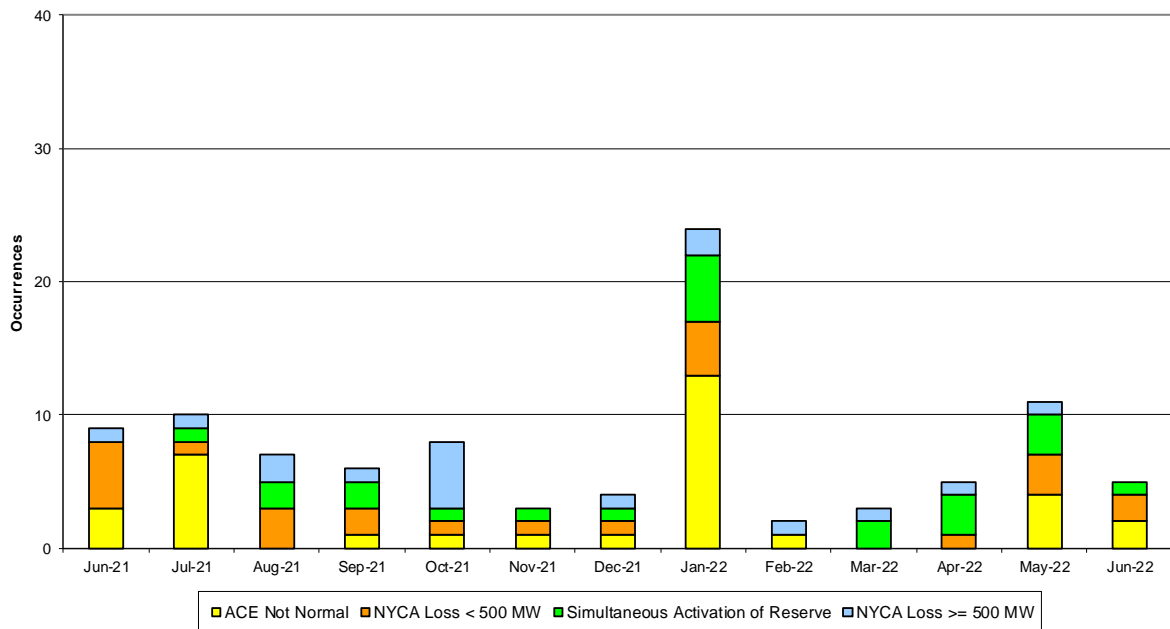
The value of NERC Control Performance Standards (CPS-1) is an indicator of the NYISO Area resource and demand balancing. Values exceeding the identified threshold are NERC compliant.

### 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.

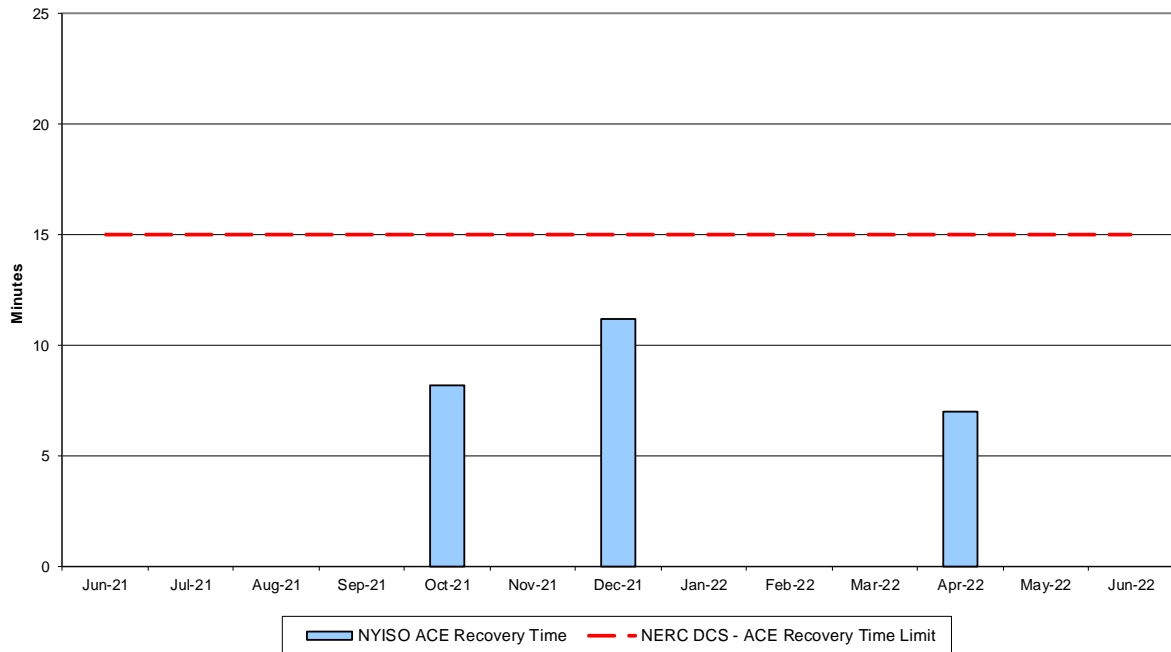
### Reserve Activations



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.

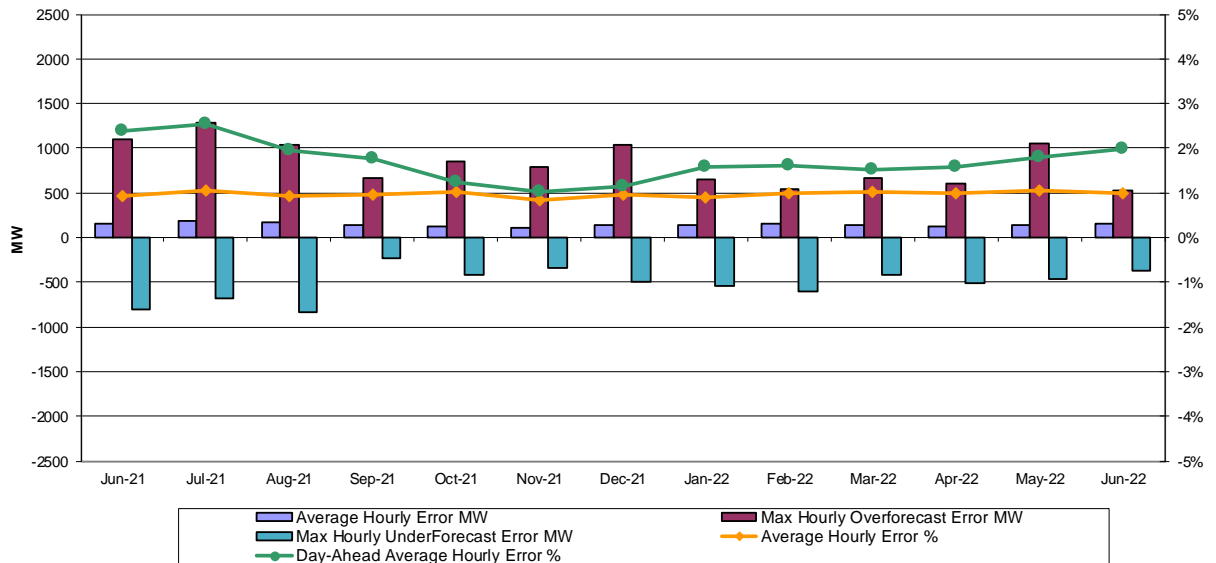


### DCS Event Time to ACE Recovery



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

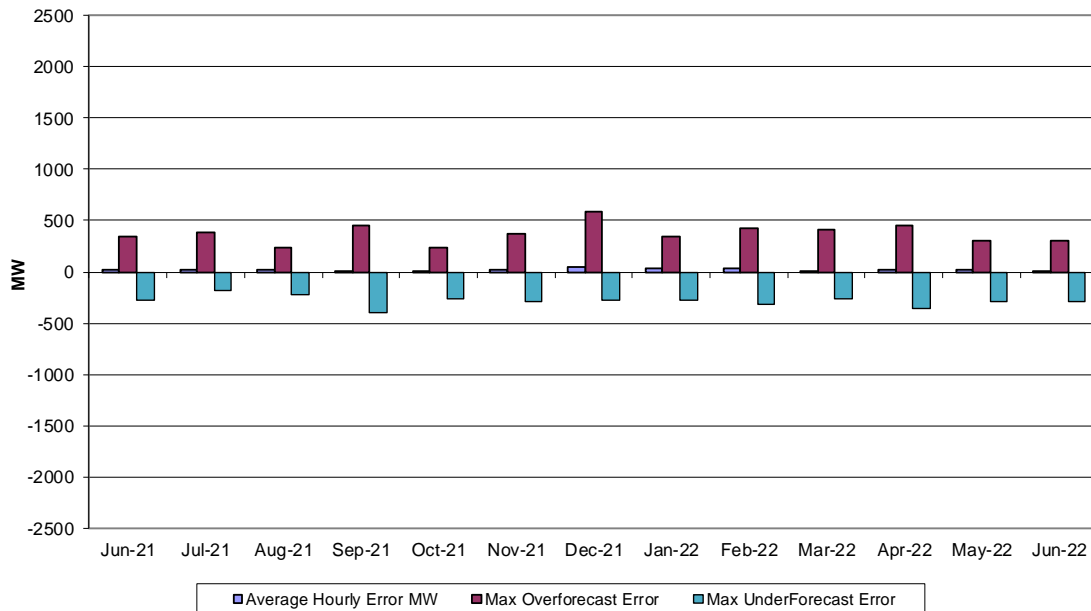


**Hourly Error MW** - Value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

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

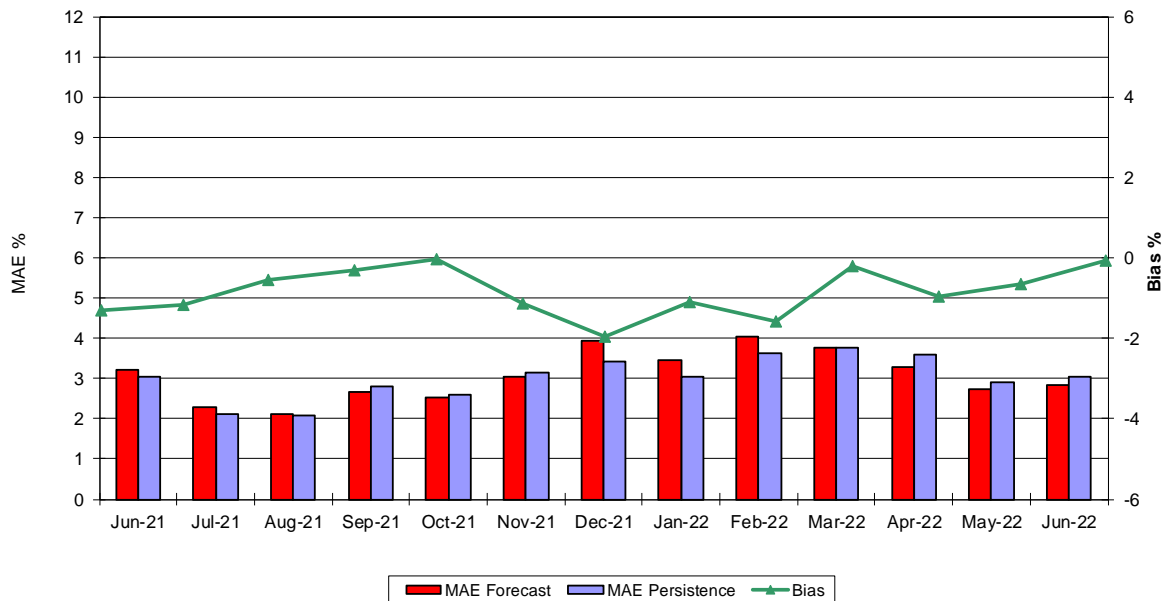
**Day-Ahead Average Hourly Error %** - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

### Wind Forecast Performance Hour Ahead MW Error

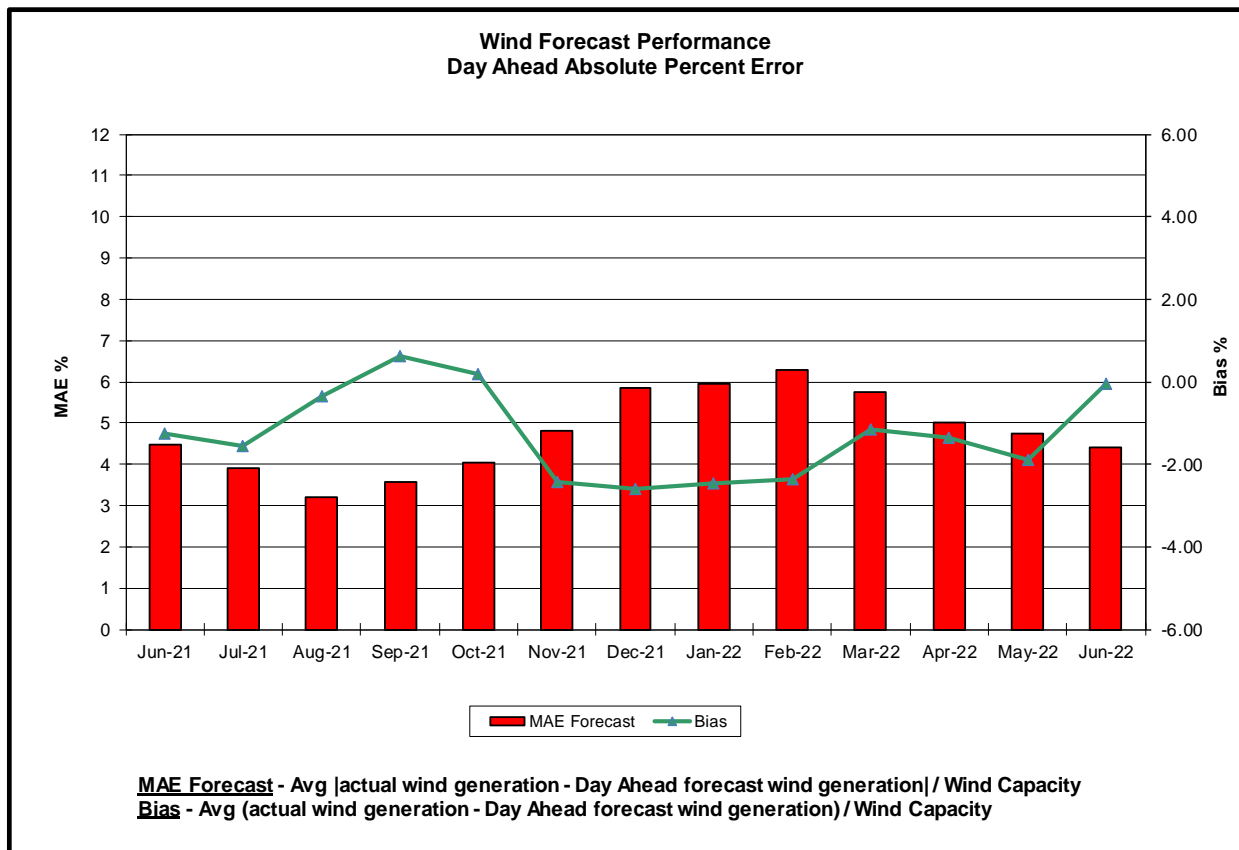
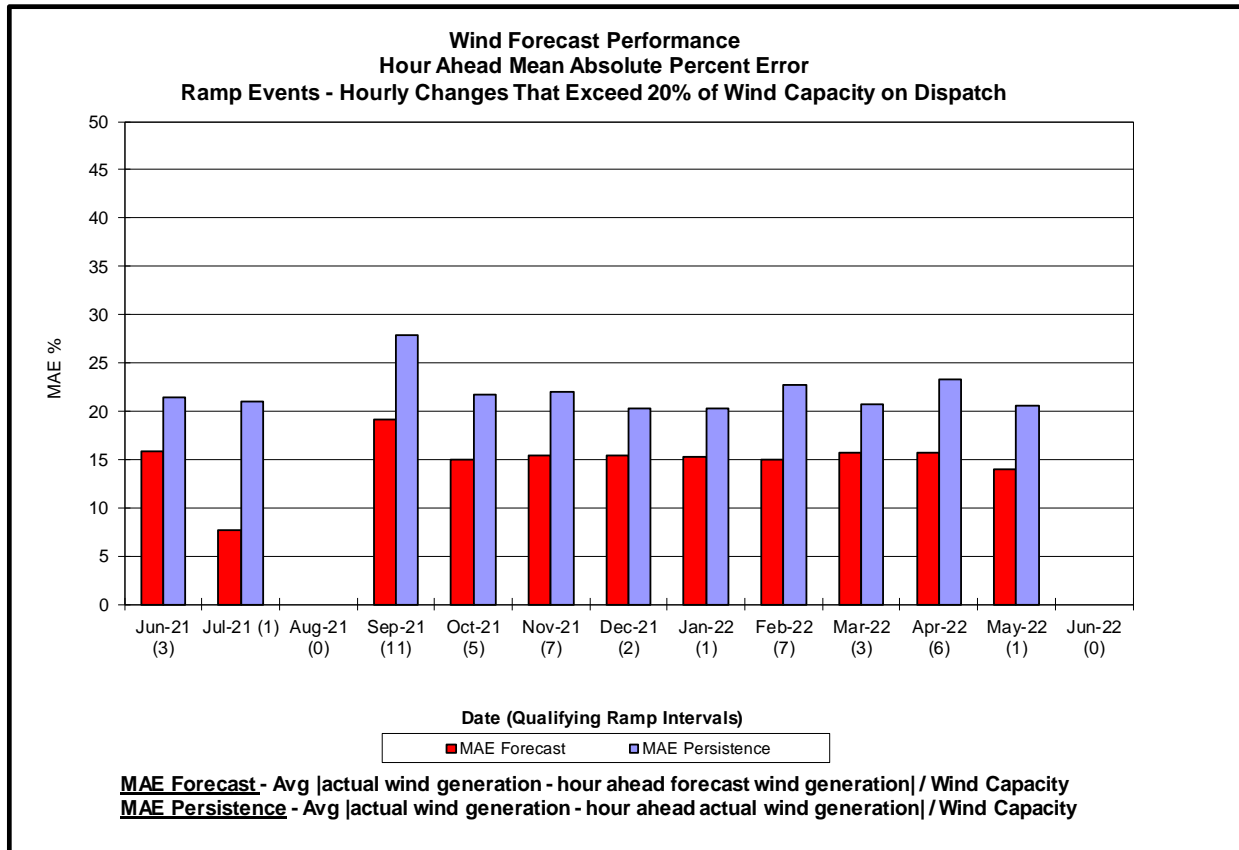


**Hourly Error MW** - Value of the difference between the hourly average actual wind generation and the average hour ahead forecast wind generation.

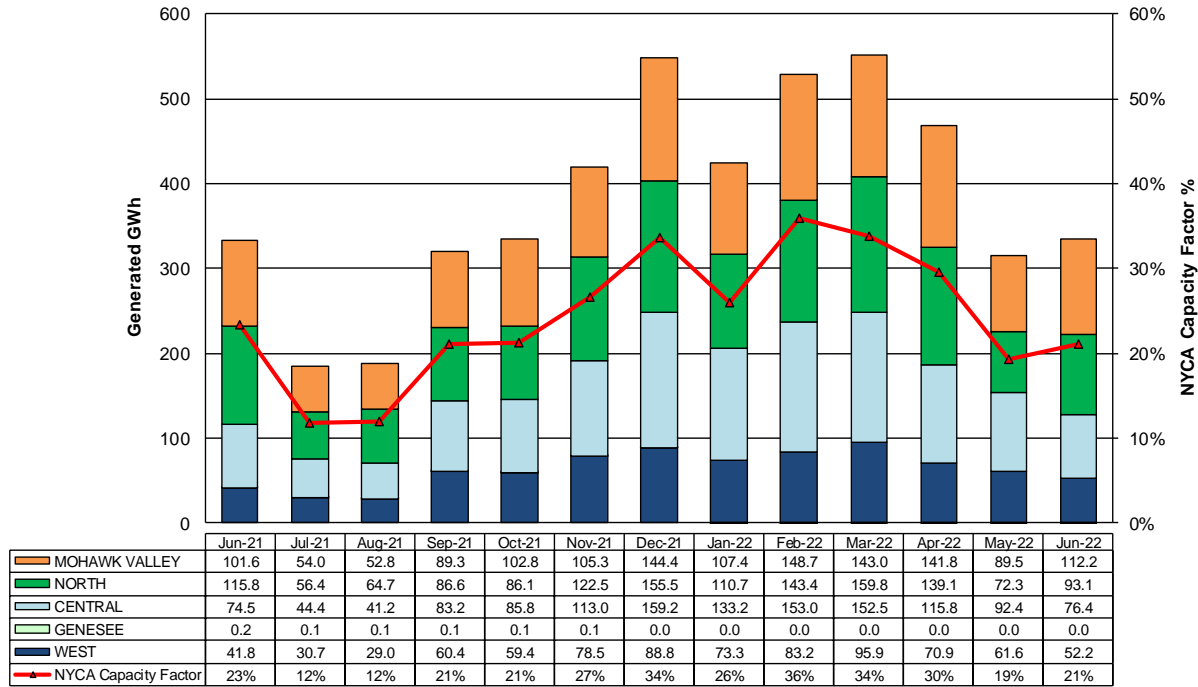
### Wind Forecast Performance Hour Ahead Percent Error



**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

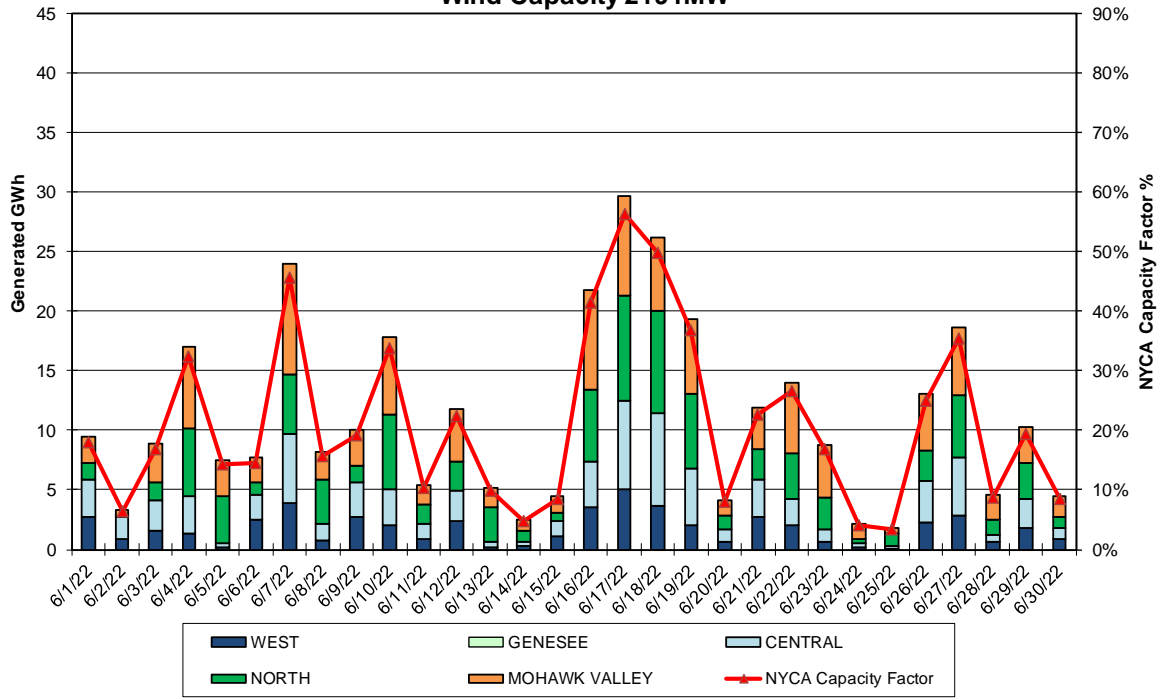


### Wind Performance Monthly Production and Capacity Factor Wind Capacity 2191MW

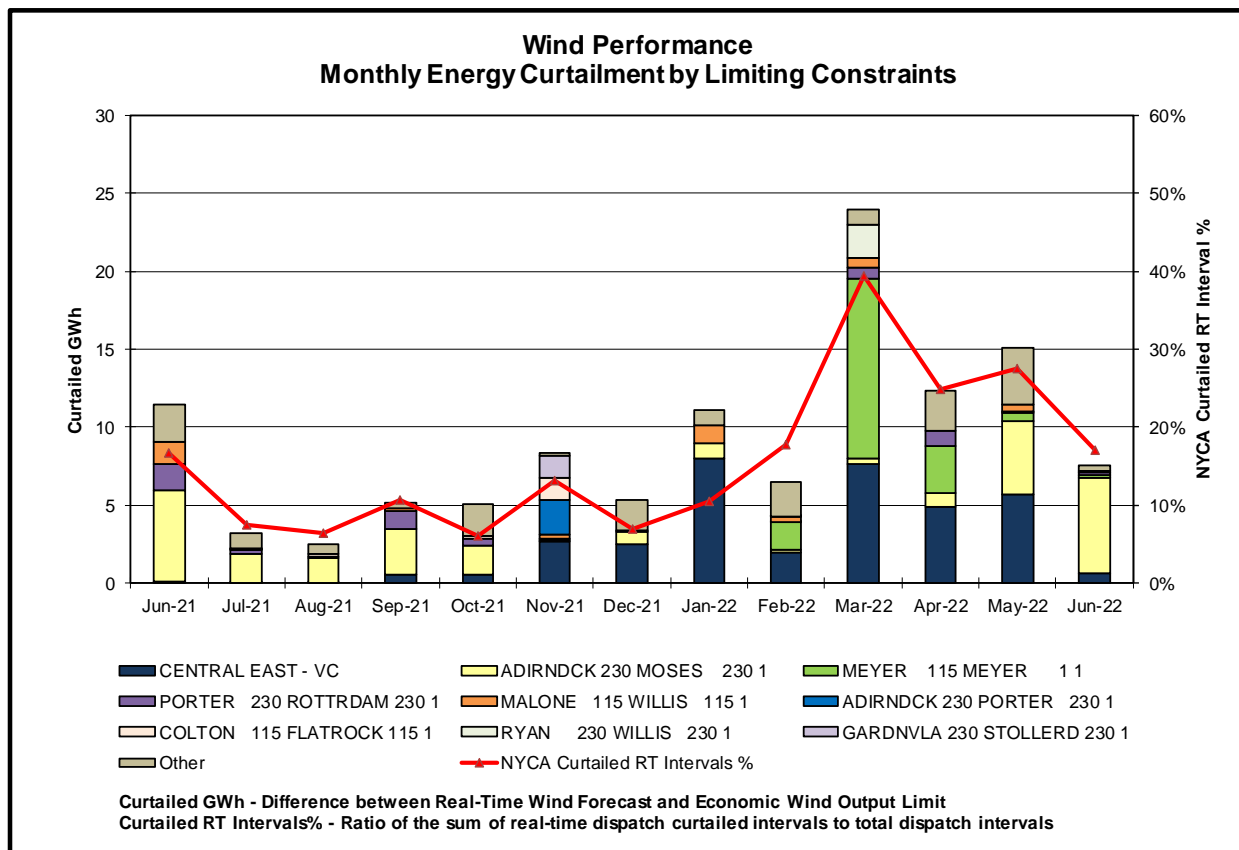
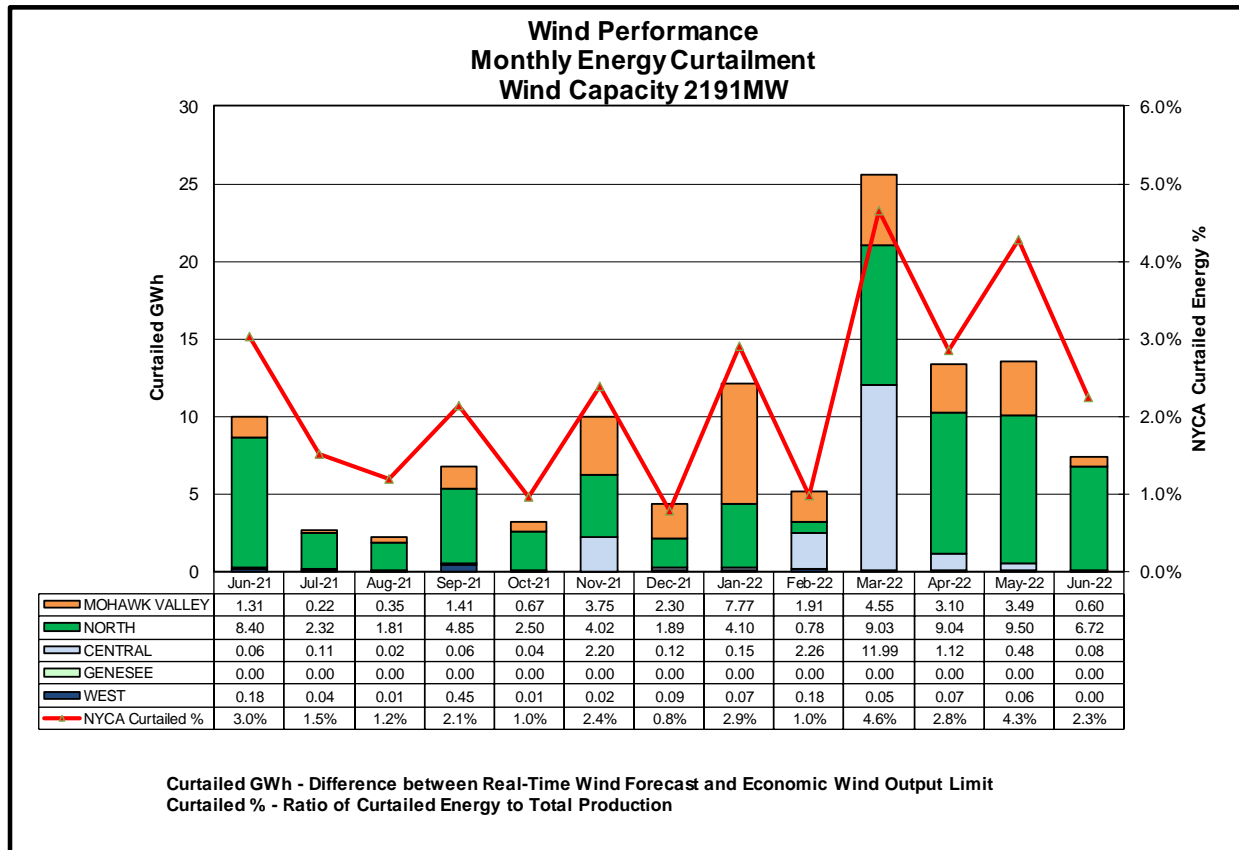


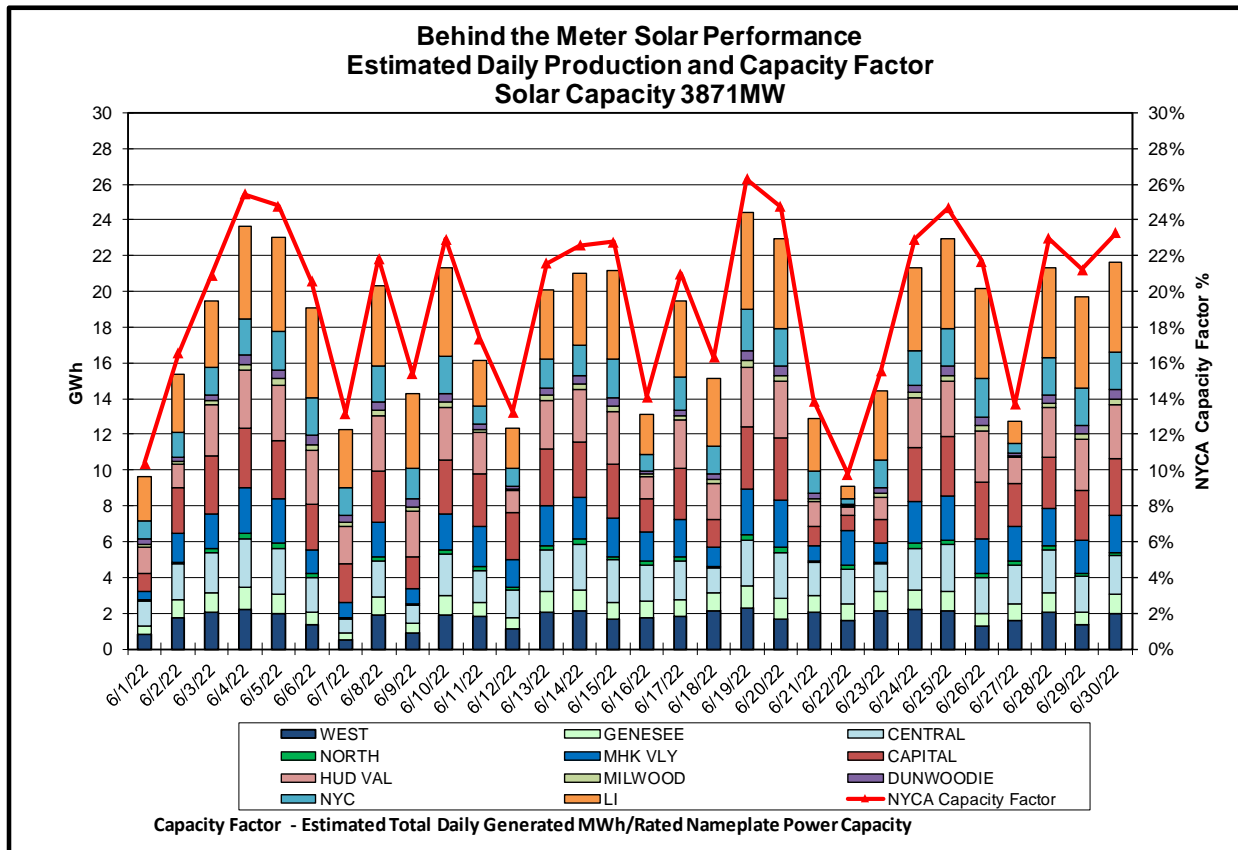
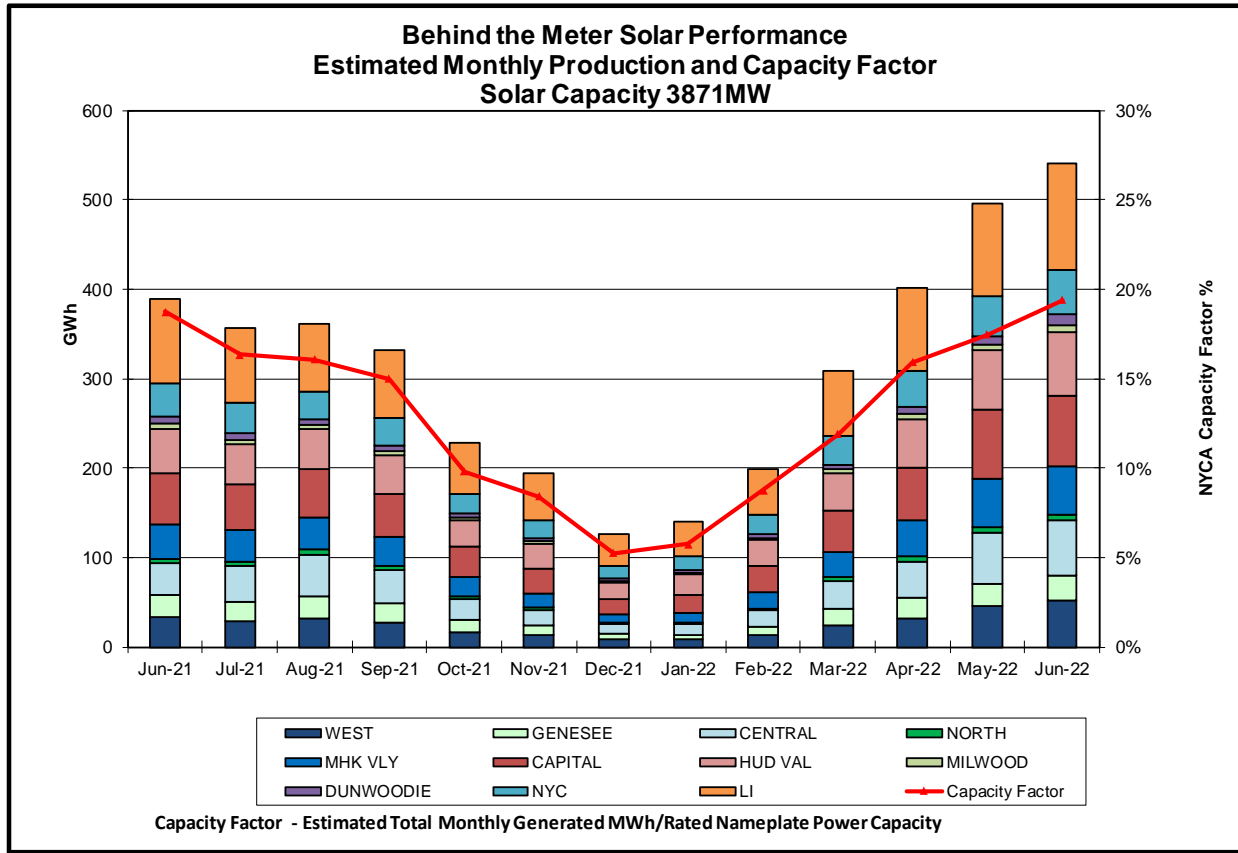
Capacity Factor - Total Monthly Generated MWh/Rated Nameplate Power Capacity

### Wind Performance Daily Production and Capacity Factor Wind Capacity 2191MW

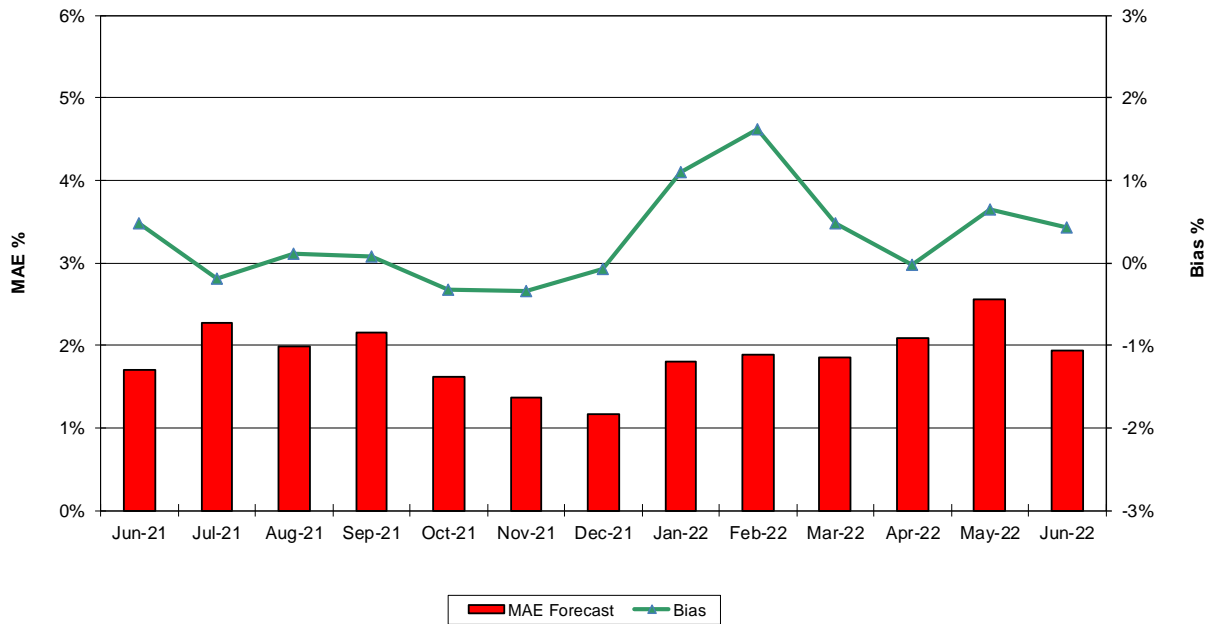


Capacity Factor - Total Daily Generated MWh/Rated Nameplate Power Capacity

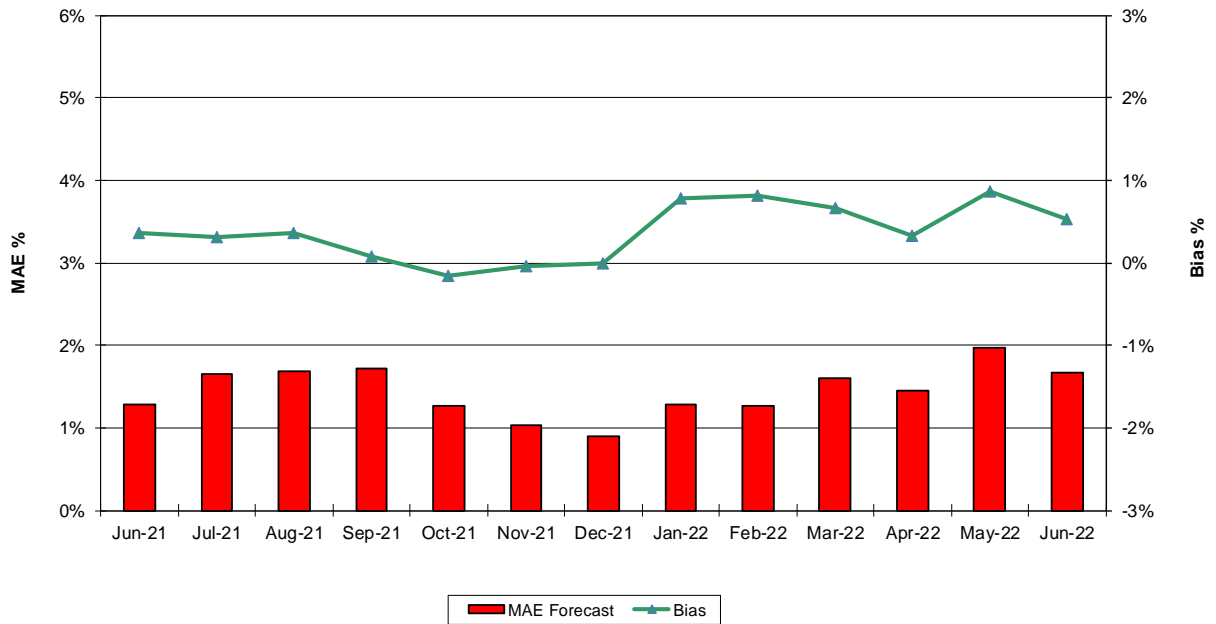


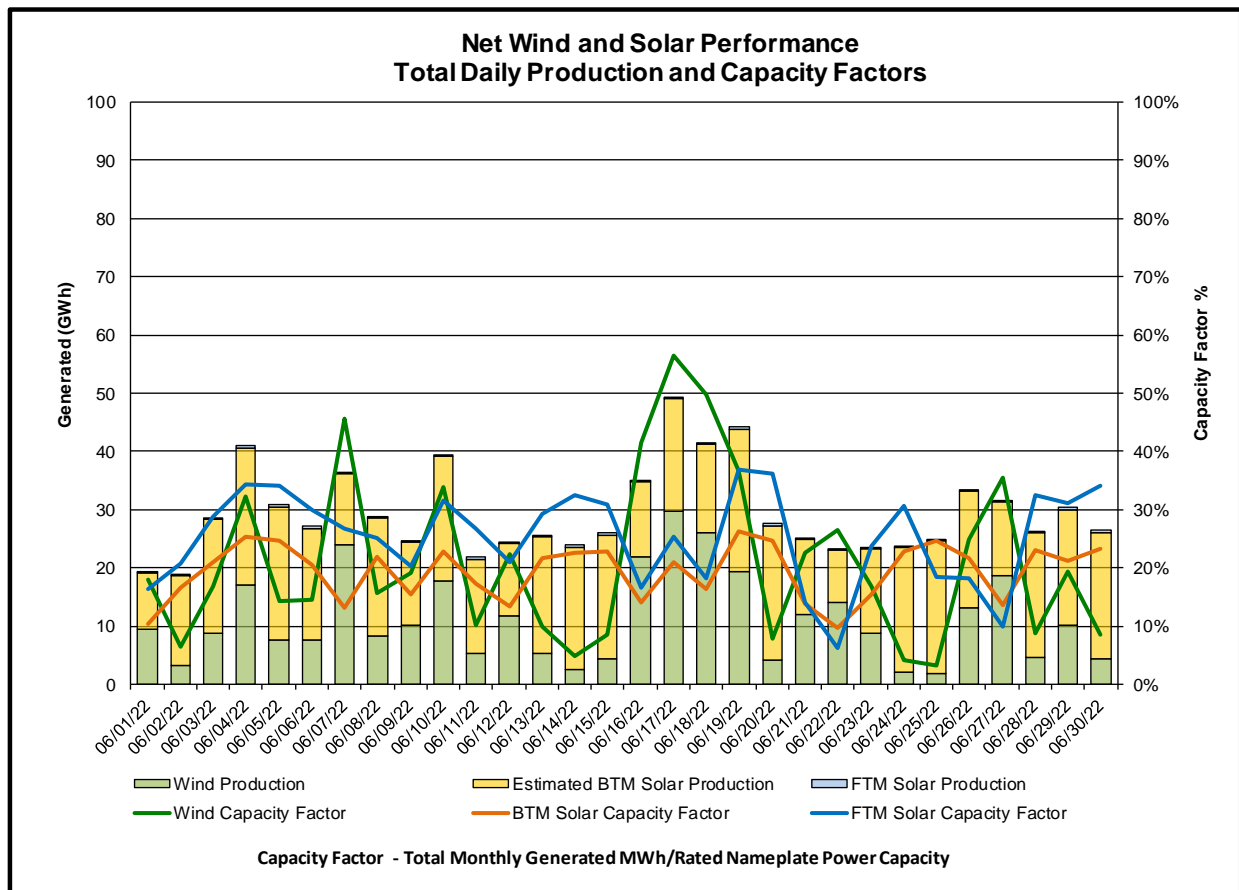
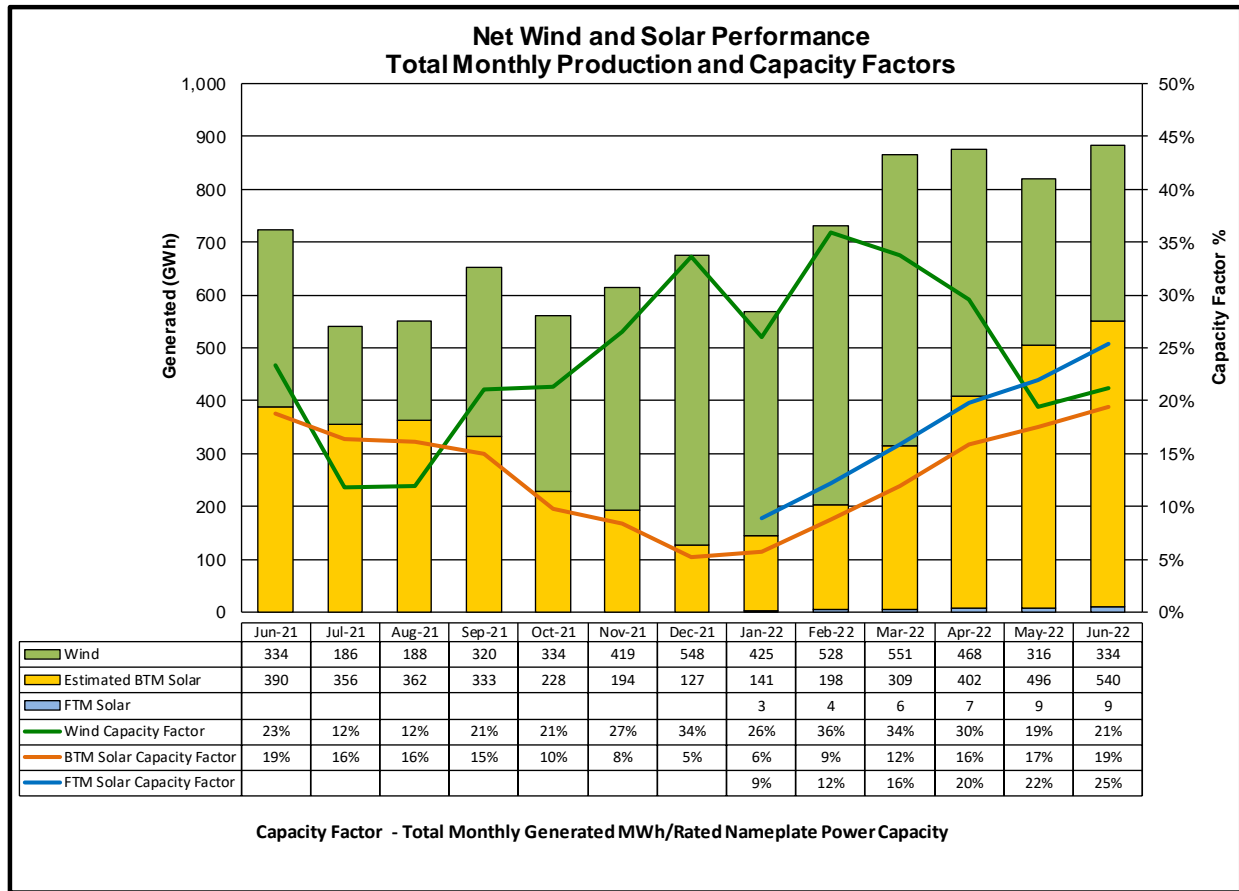


### Behind the Meter Solar Forecast Performance Day Ahead Percent Error

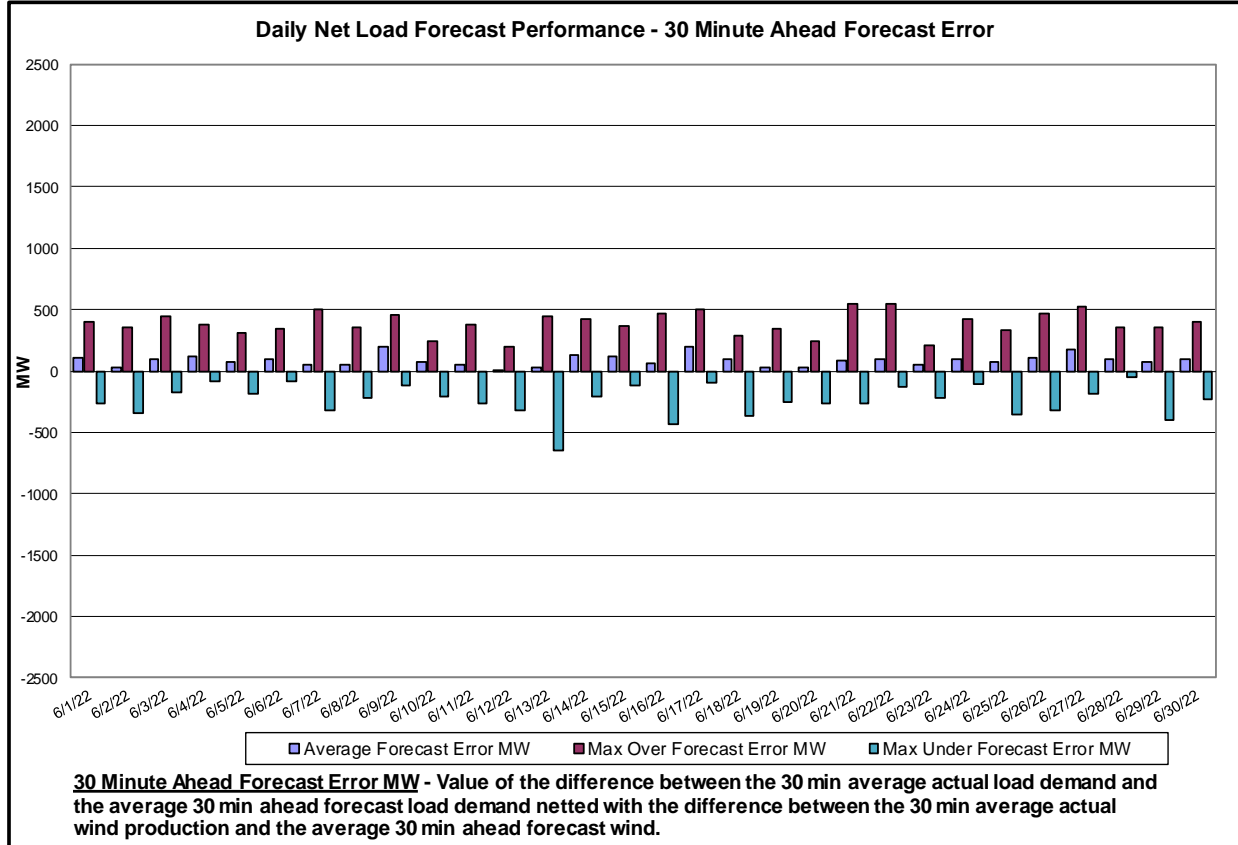
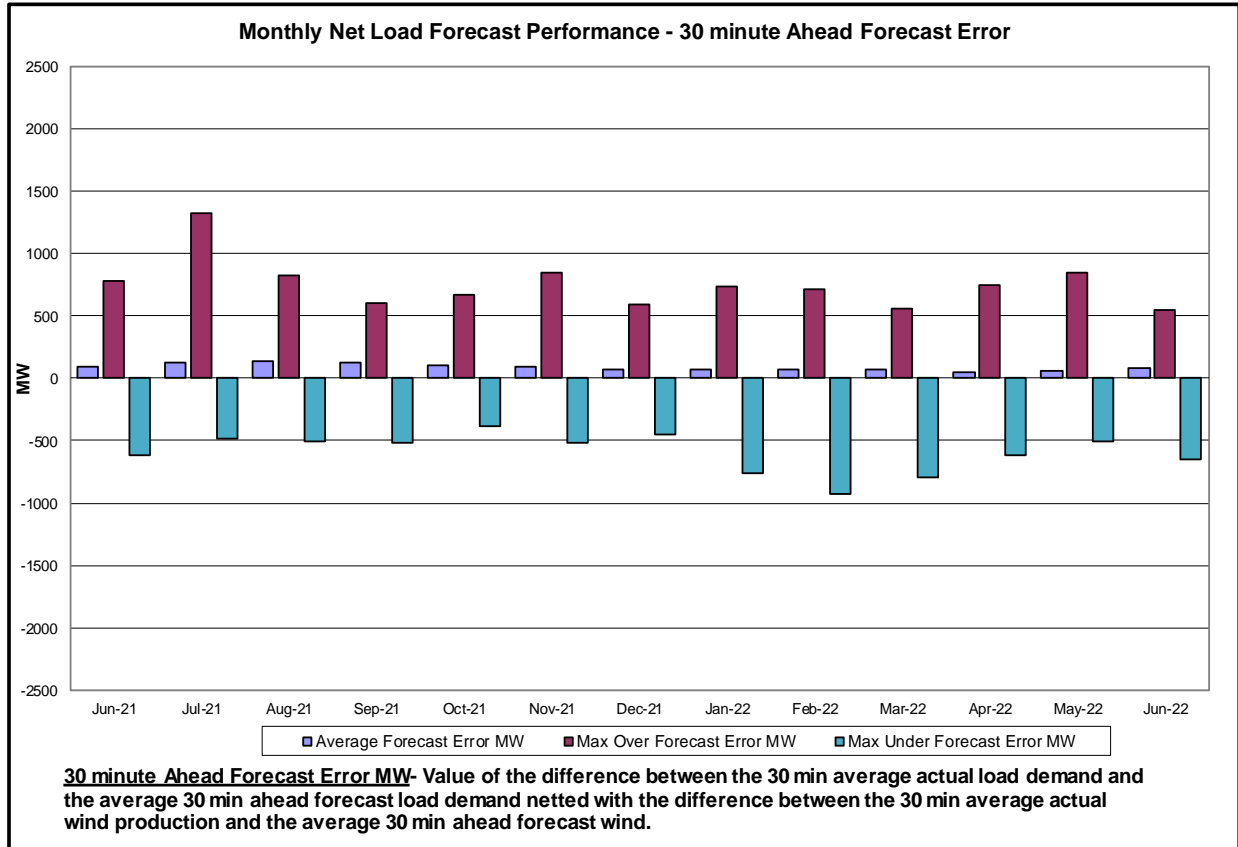


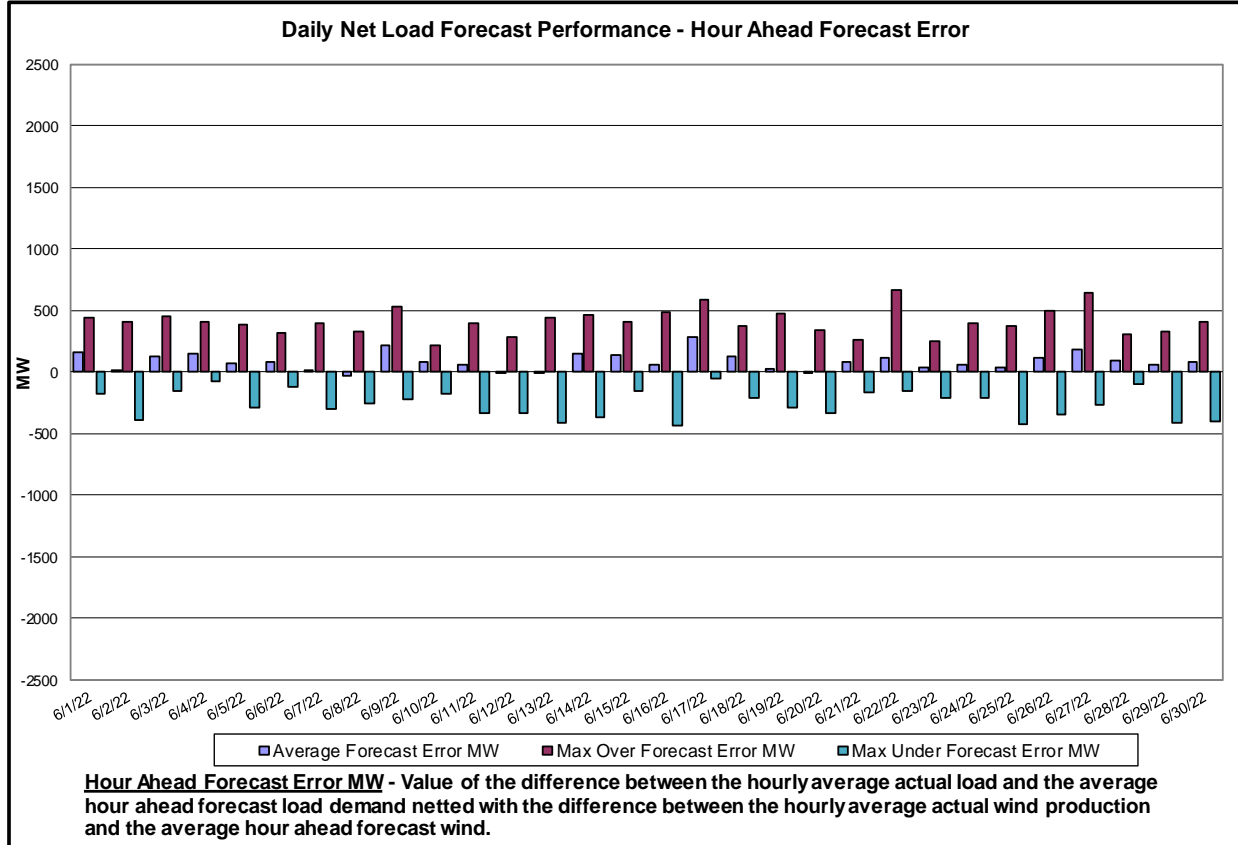
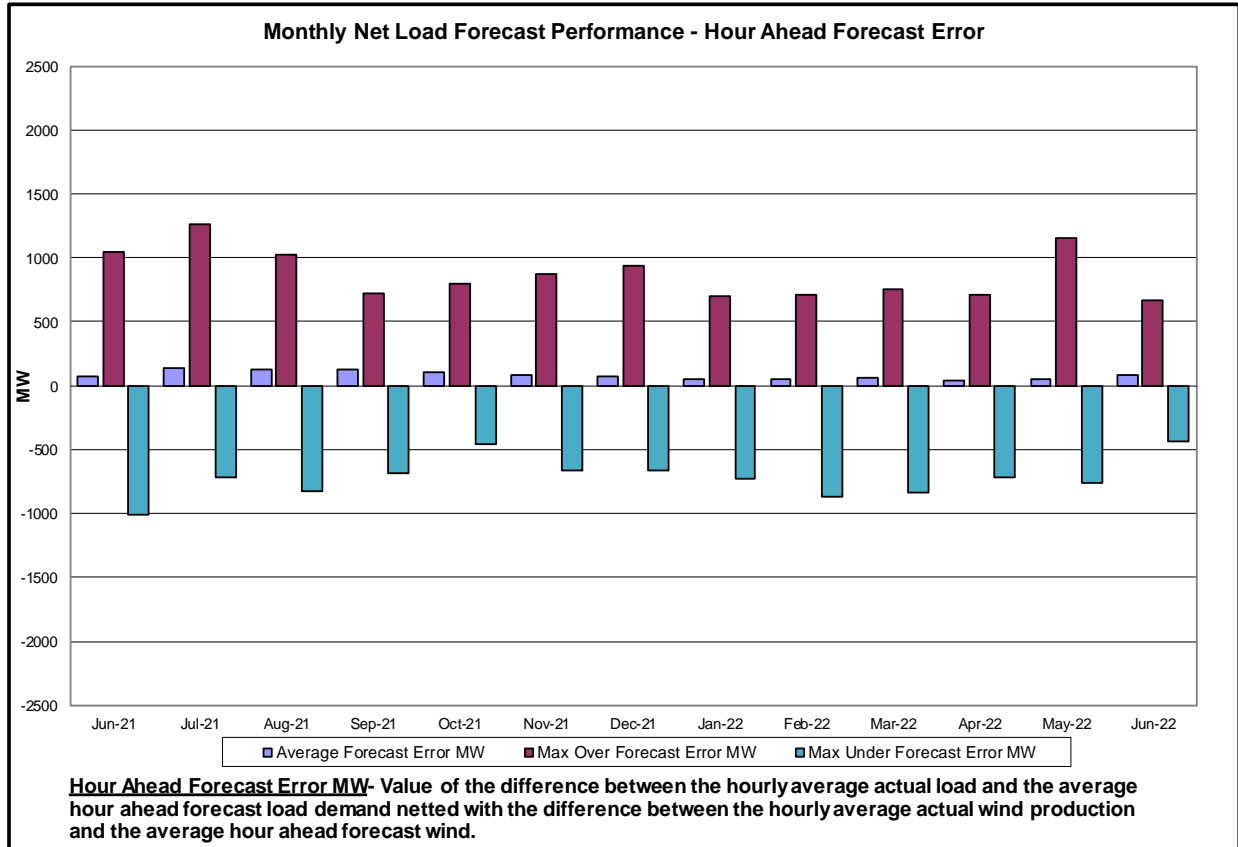
### Behind the Meter Solar Forecast Performance Hour Ahead Percent Error

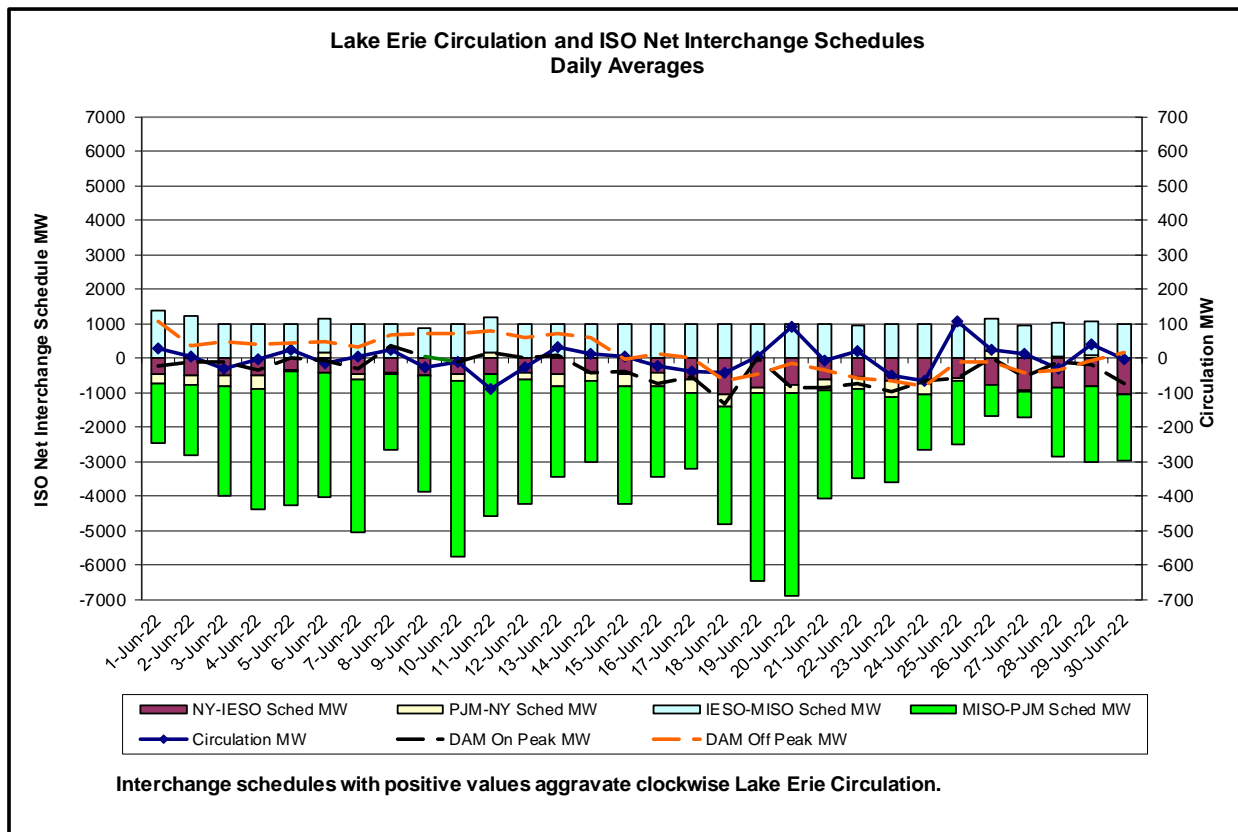
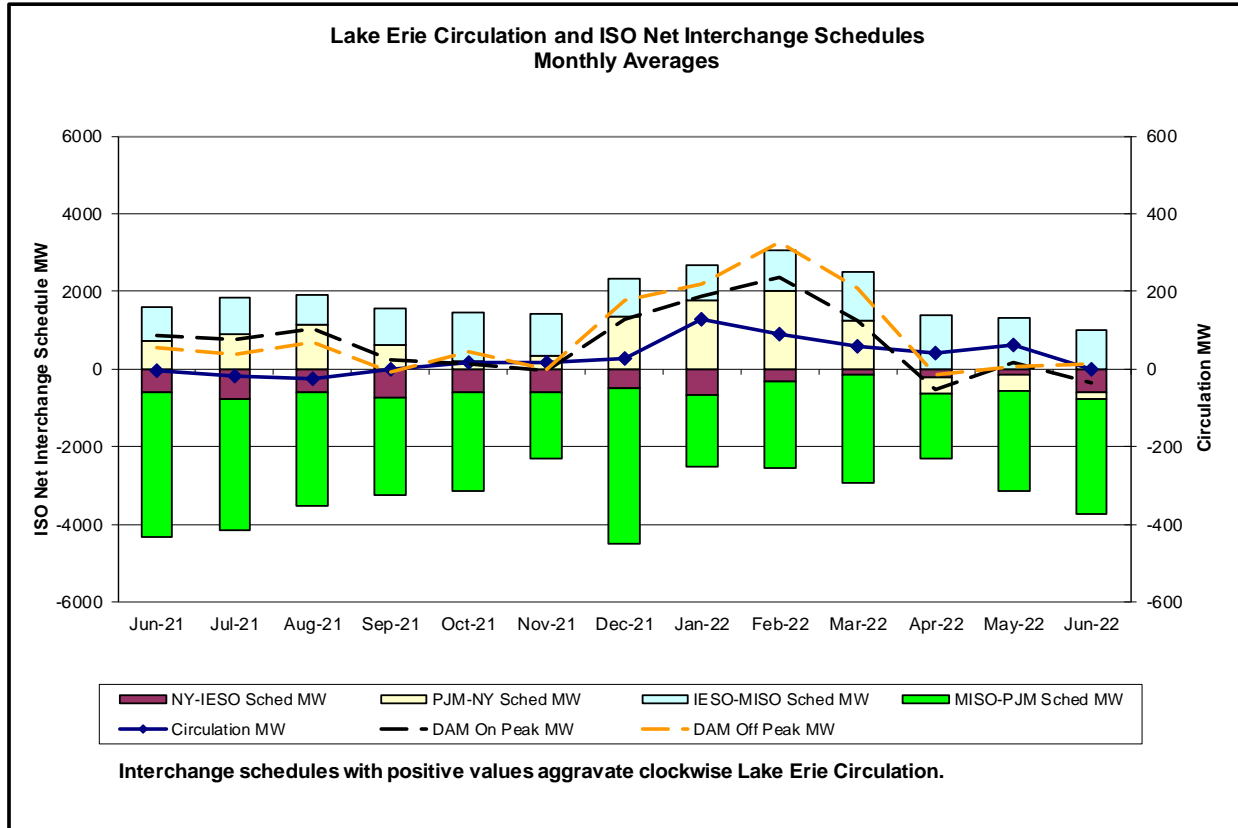




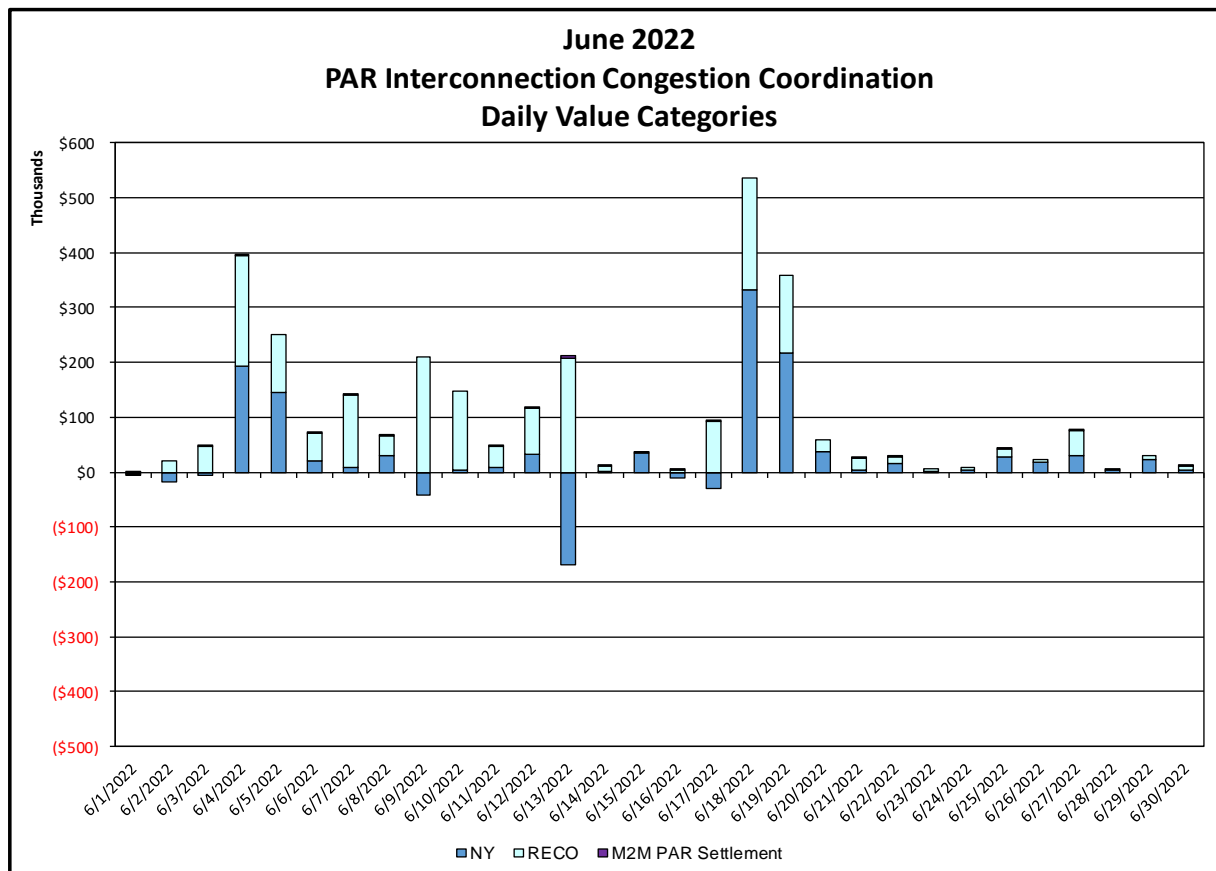
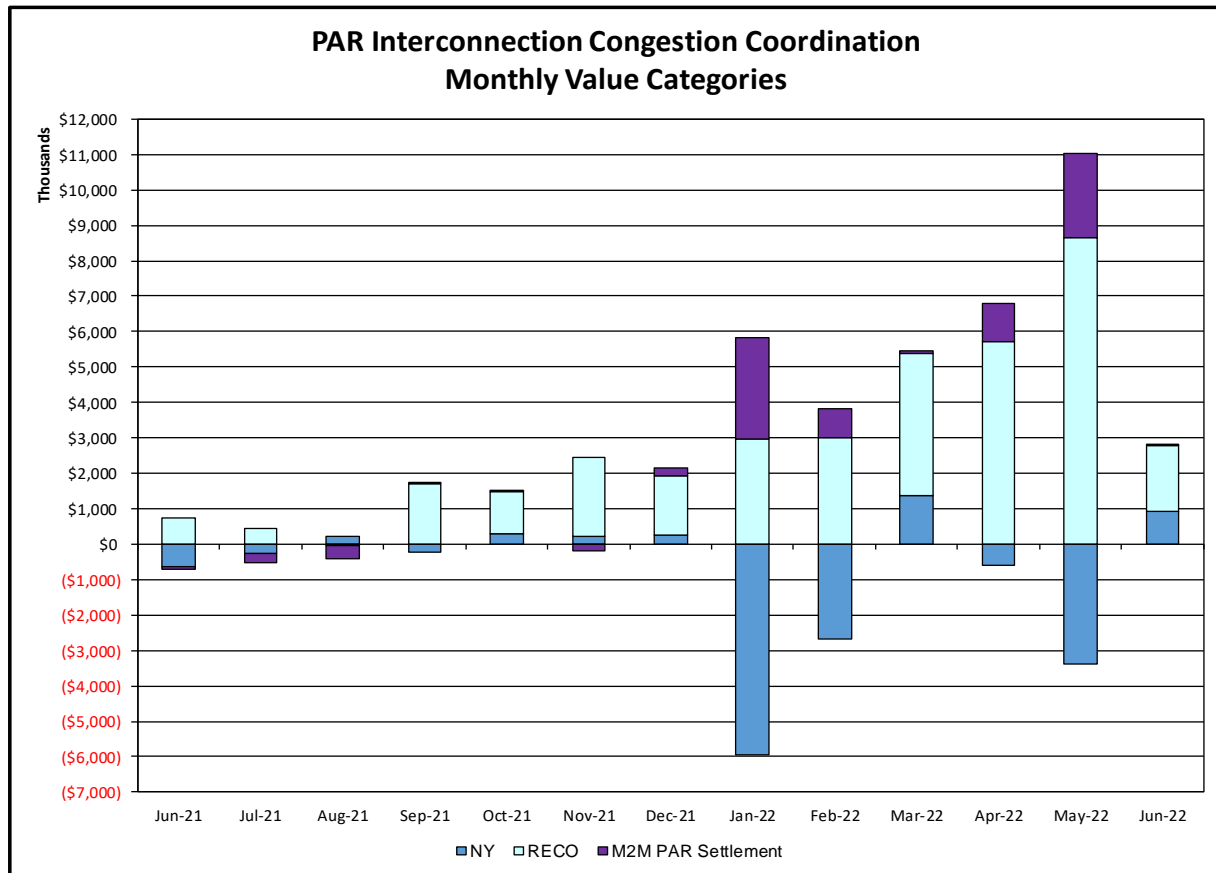




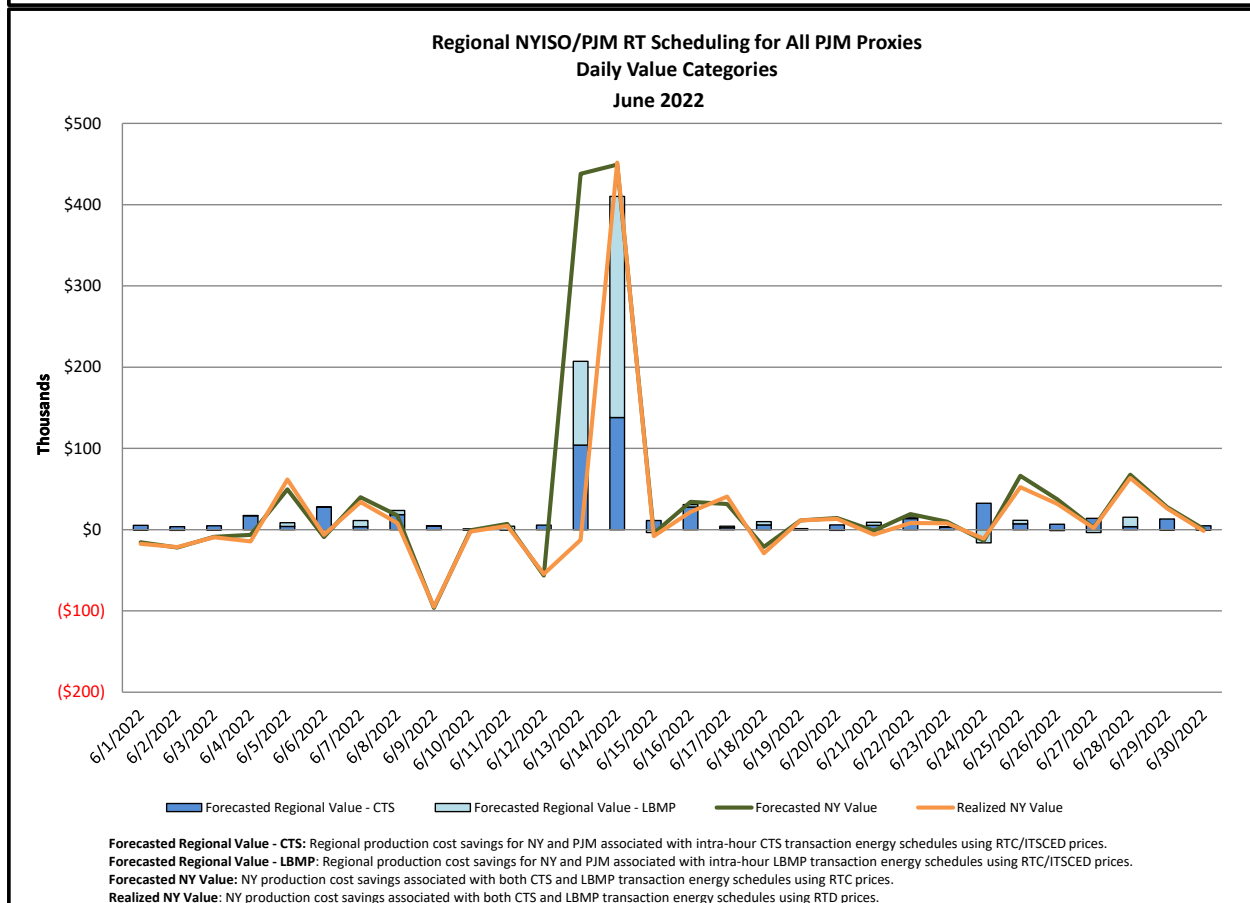
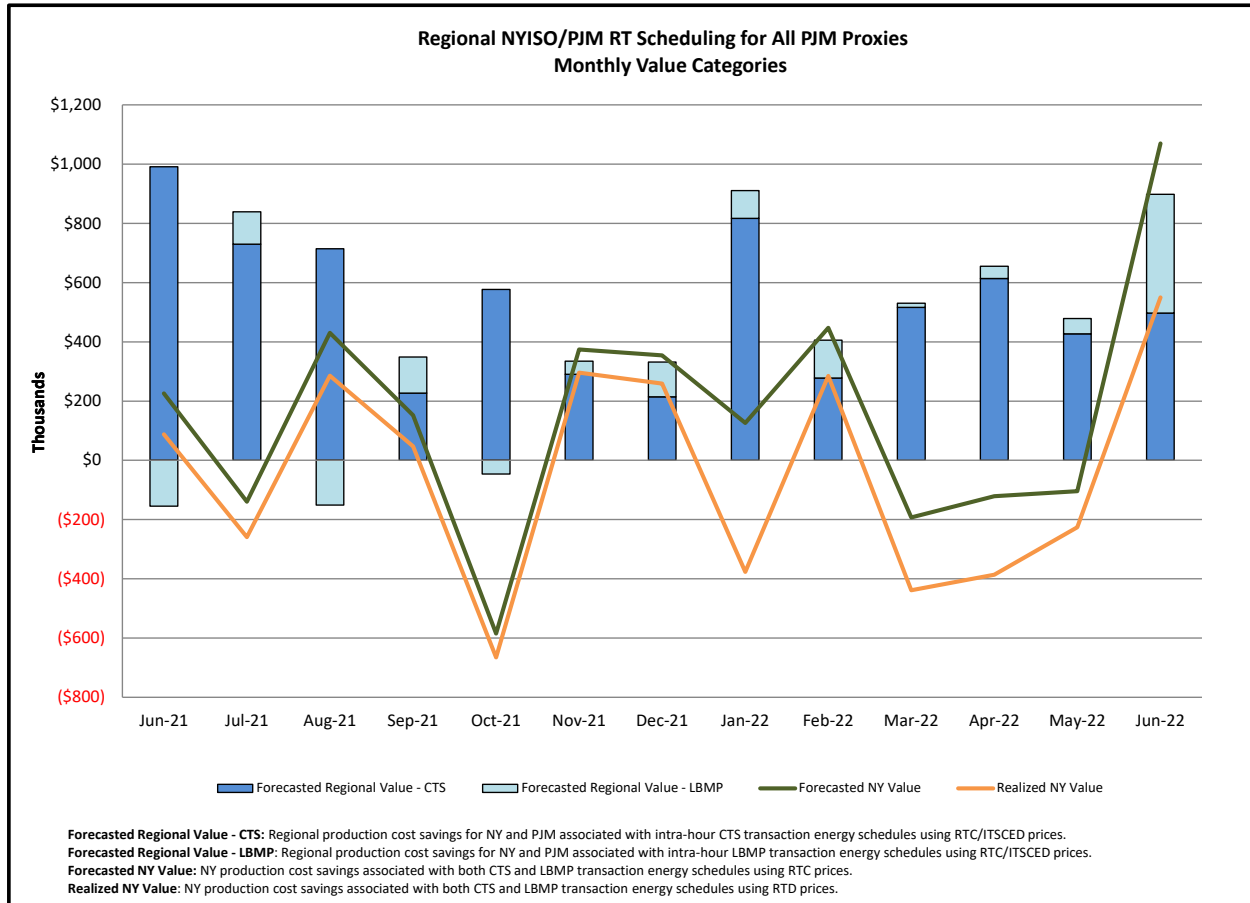




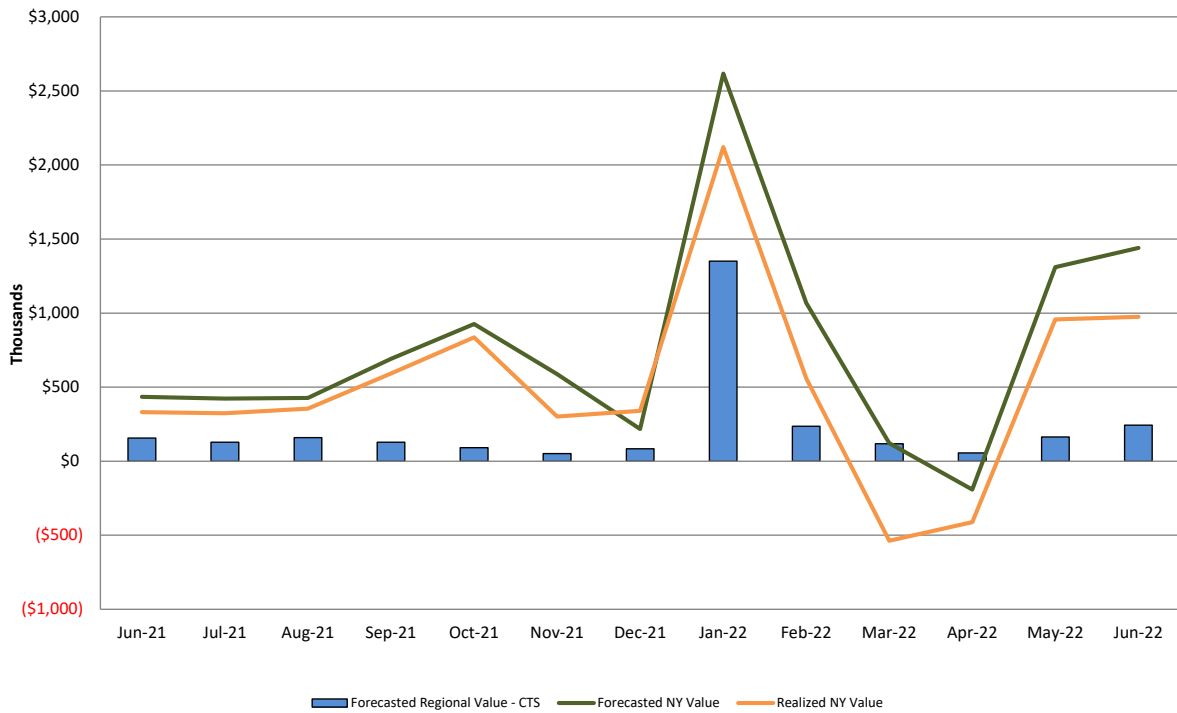
## Broader Regional Market Performance Metrics



<b><u>PAR Interconnection Congestion Coordination</u></b>	
<b><u>Category</u></b>	<b><u>Description</u></b>
<b>NY</b>	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
<b>RECO</b>	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.
<b>M2M PAR Settlement</b>	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.

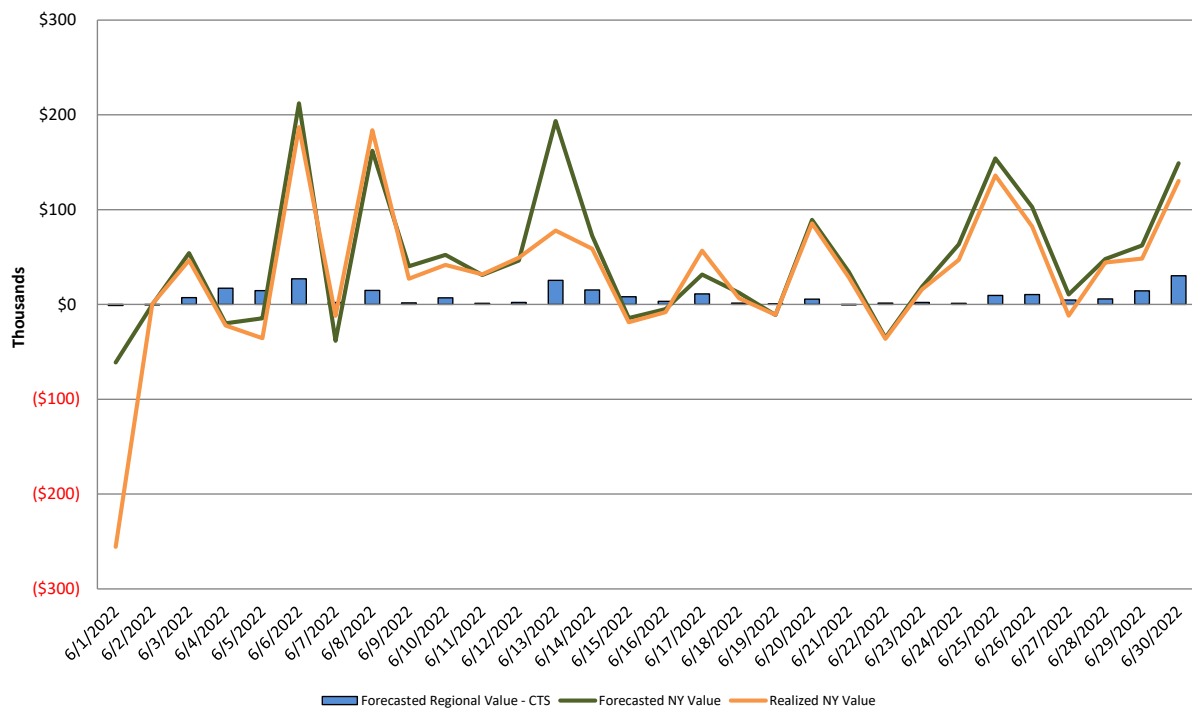


### Regional NYISO/NE RT Scheduling for ISO-NE AC Monthly Value Categories



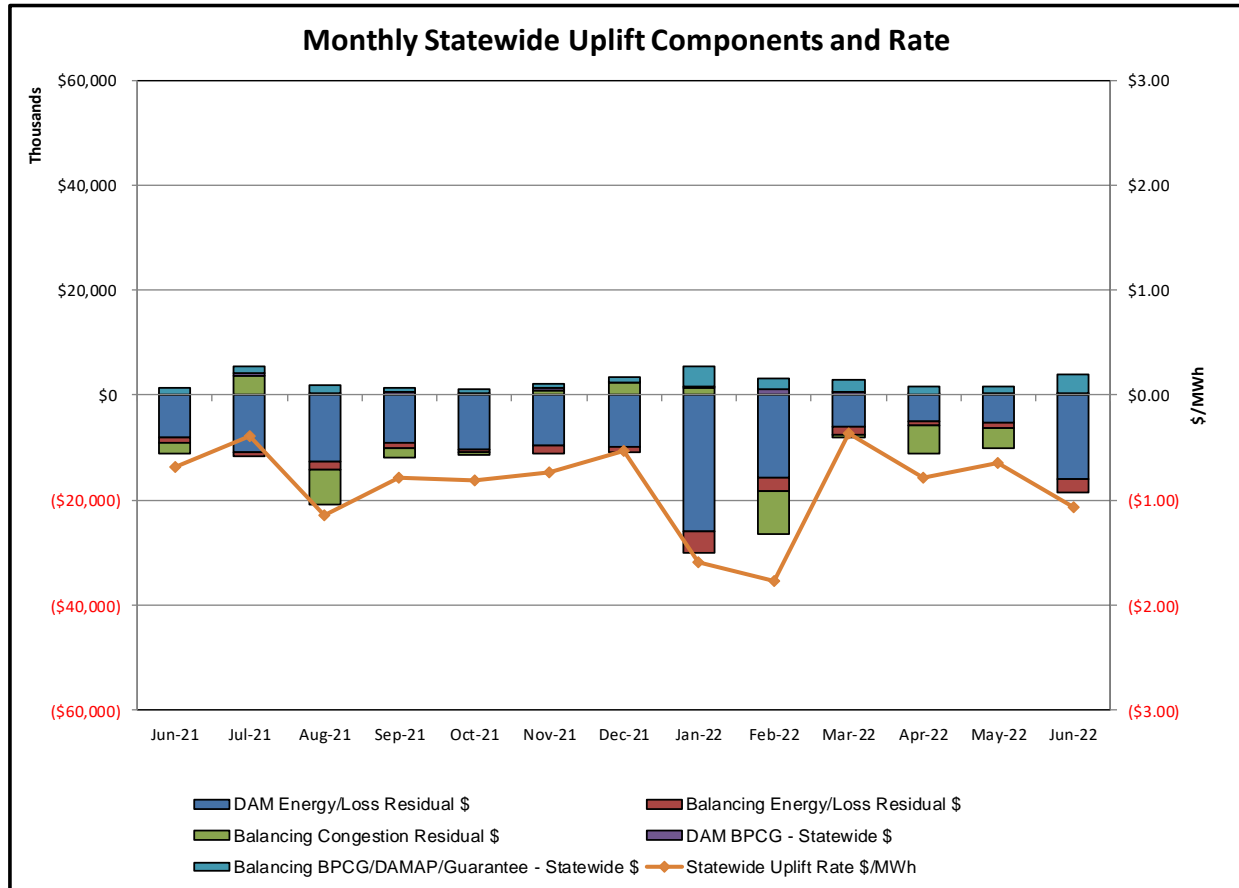
**Forecasted Regional Value - CTS:** Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices.  
**Forecasted NY Value:** NY production cost savings associated with CTS transaction energy schedules using RTC prices.  
**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 June 2022

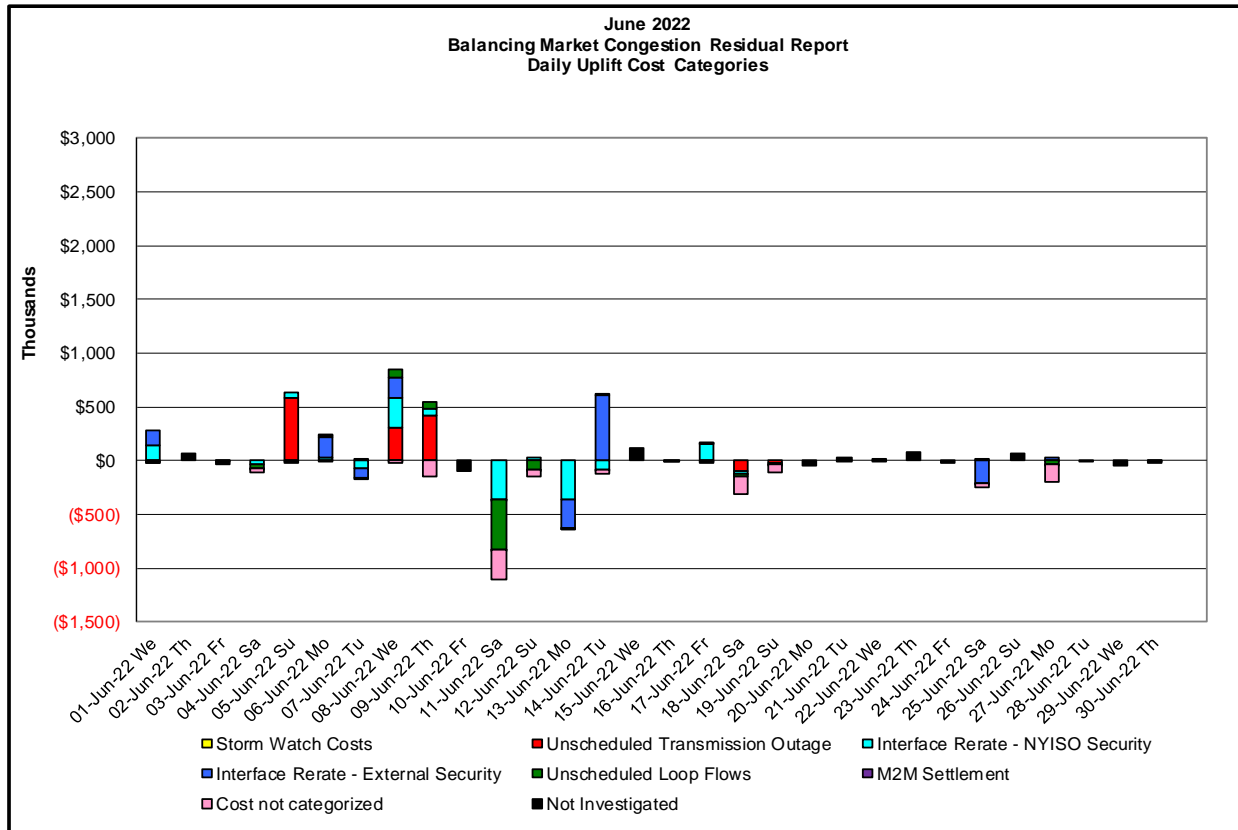
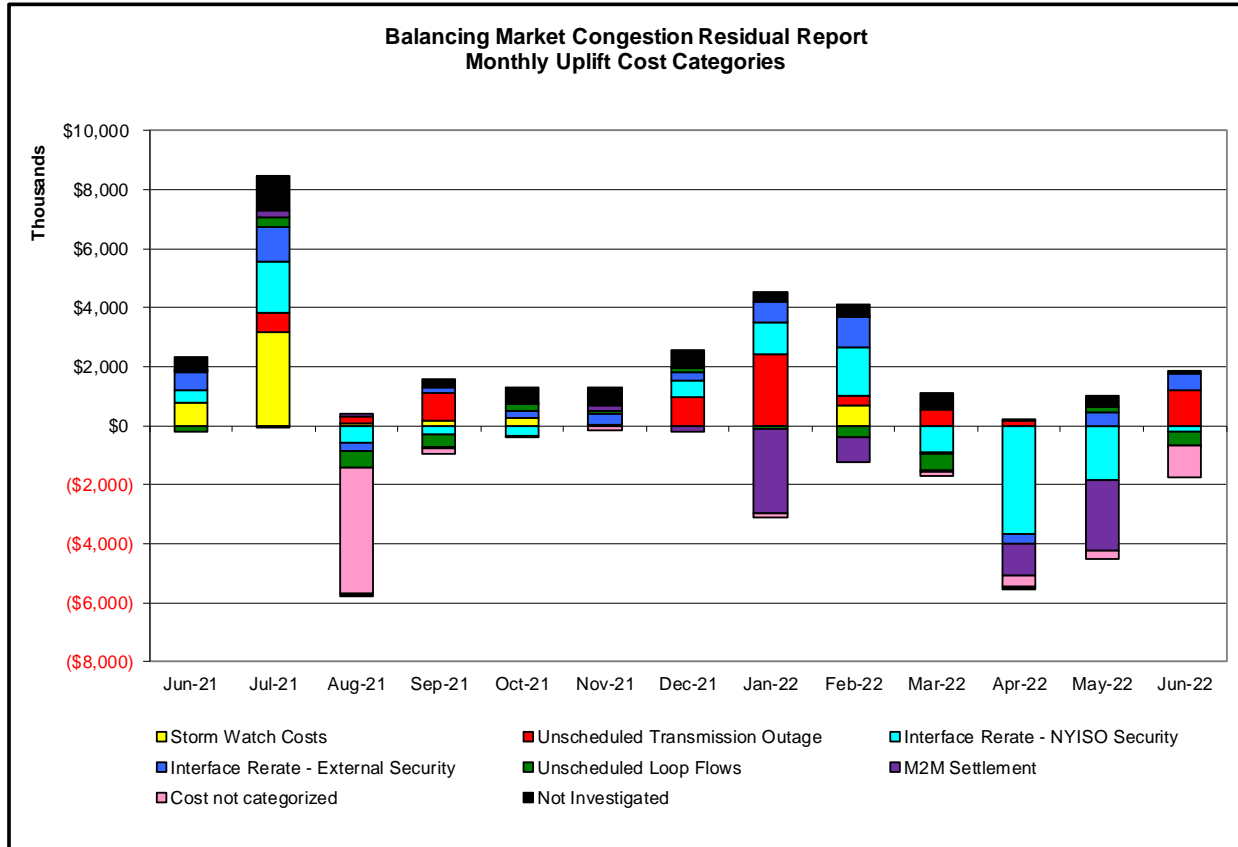


**Forecasted Regional Value - CTS:** Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices.  
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## Market Performance Metrics







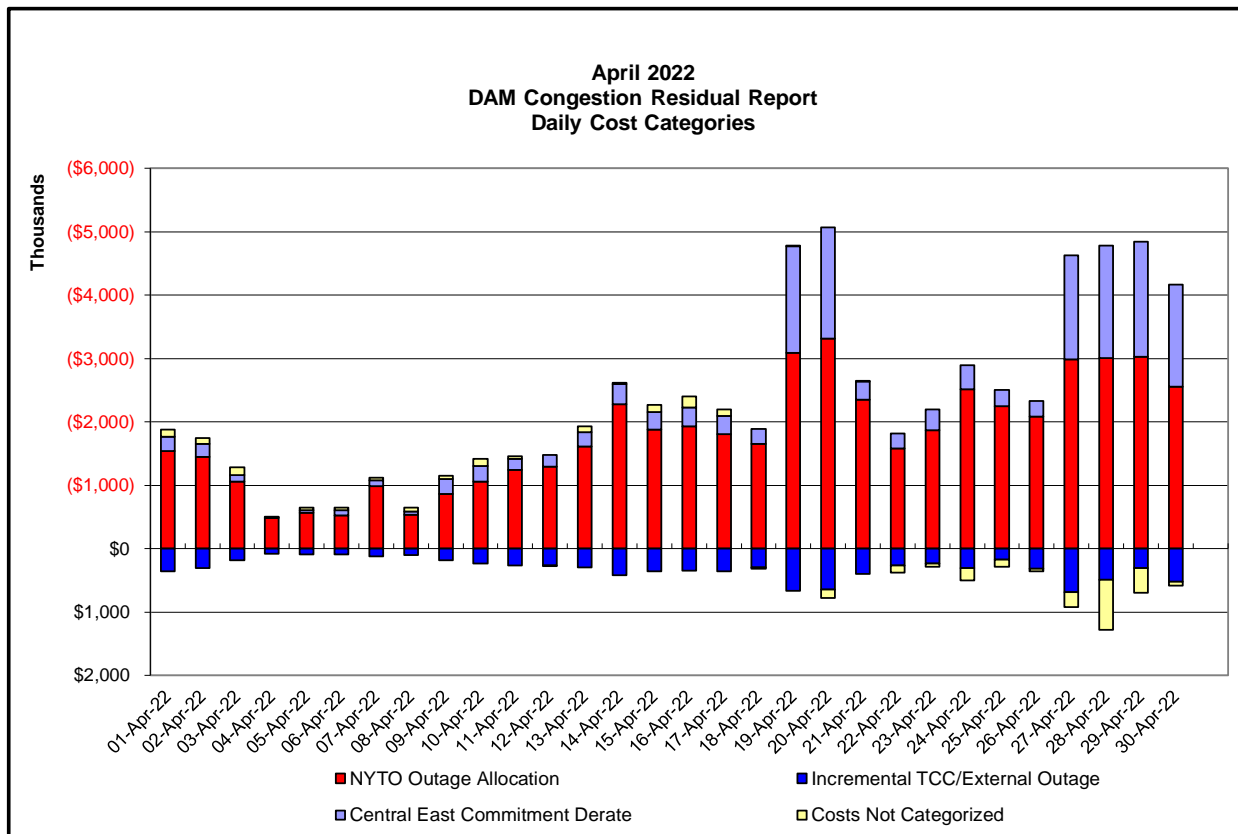
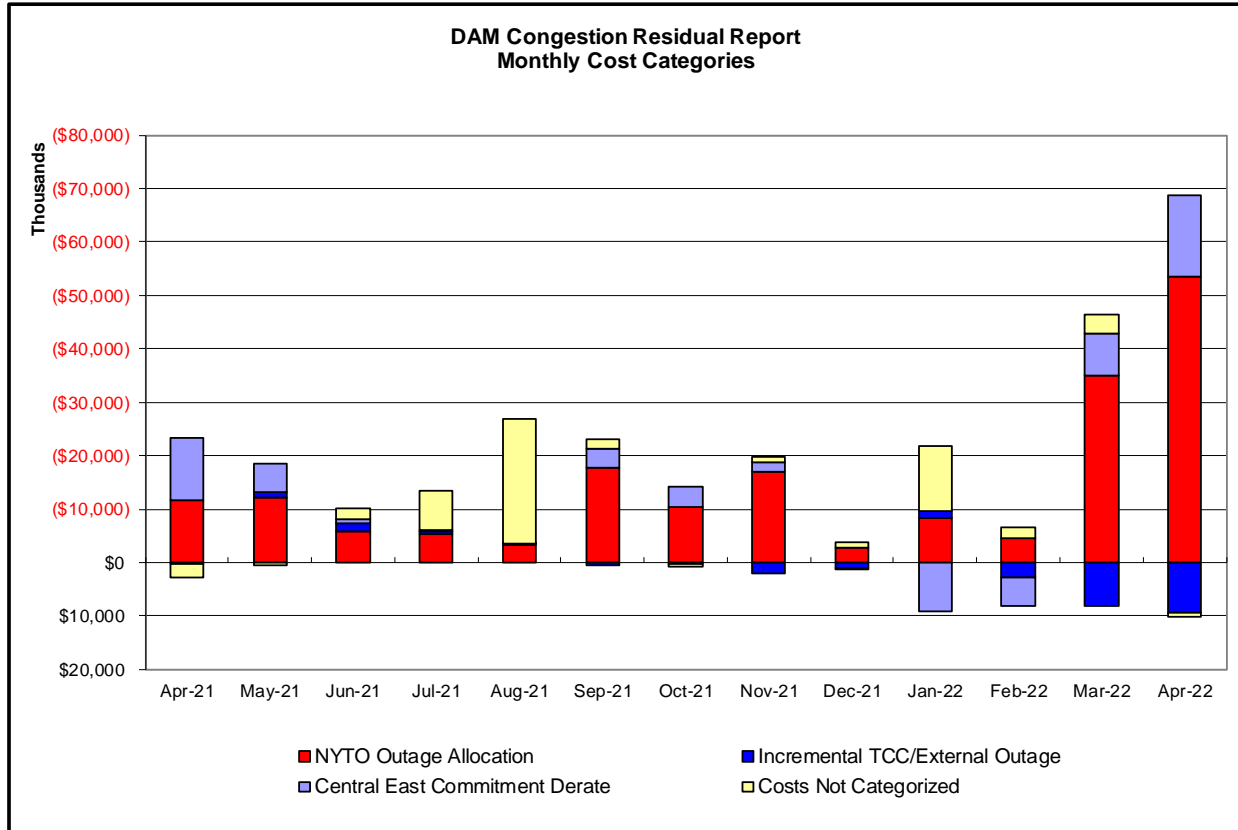
Day's investigated in June: 1,4,5,6,7,8,9,11,12,13,14,17,18,19,25,27		
Event	Description	June Dates
	Early Return to Service Marcy-Edic 345kV (#UE1-7)	18,19
	Forced Outage Niagara-Packard 115kV (#195)	5
	Forced Outage Pleasant Valley North Bus	8,9
	Derate Adirondack-Moses 230kV (#MA1) I/o SIN:MSU1&7040& HQ GN&LD PROXY	8,9,14,17
	Derate Central East	4-7,12,18
	Derate Greenbush-Regeneron 115kV (#9)	1
	Derate Greenbush-Regeneron 115kV (#9) I/o SEABROOK	1
	Derate Leeds-Hurly Avenue 345kV (#301) I/o TWR F30&W80&F31&W81	8,9,18
	Derate Pleasant Valley-Leeds 345kV (#92) I/o Athens-Pleasant Valley 345kV (#91)	17
	Derate Porter-Rotterdam 230kV (#30) I/o SEABROOK	1
	NYCA DNI Ramp Limit	1,5,6,8,12,13,27
	Uprate Central East	4,7-9,11-13,17-19
	Uprate Chestor-Shoemaker 138kV (#27) I/o TWR:Ramapo 76&77&BK1112	4,13
	Uprate ECWABALP-NiagaraBlvd 115kV (#182) I/o TWR:PACKARD 77&78	13
	Uprate Freshkills-Willowbrook 138kV (#29211)	13
	Uprate Leeds-New Scotland 345kV (#93) for I/o Leeds-New Scotland 345kV (#94)	11,18
	Uprate NiagaraBlvd-Packard 115kV (#181-922)	7,13
	Uprate NiagaraBlvd-Packard 115kV (#181-922) I/o \$SCB NIAG 3122 W/ND1 O/S	13
	Uprate NiagaraBlvd-Packard 115kV (#181-922) I/o SCB:DYSINGER(1B3211)ND2&DH2	13
	Uprate NiagaraBlvd-Packard 115kV (#181-922) I/o SCB:DYSINGER(1B3411)DES1_PAR	13
	Uprate Niagara-Packard 230kV (#61) I/o TWR:PACKARD 62 & BP76	13
	Uprate Niagara-Packard 230kV I/o TWR:PACKARD 62 & BP76	7
	Uprate Pleasant Valley-Athens 345kV (#91) I/o Leeds-Pleasant Valley 345kV (#92)	13
	Uprate Pleasant Valley-Leeds 345kV (#92) I/o Athens-Pleasant Valley 345kV (#91)	13,17
	Uprate Porter-Rotterdam 230kV (#30) I/o BUS:NSCTLD#77 14&2&93&BK2&C1&3	7
	Uprate Scriba-Volney 345kV (#20) I/o Scriba-Volney 345kV (#21)	14
	HQ_CEDARS-NY Scheduling Limit	14
	HQ_CHAT-NY Scheduling Limit	1,6-8,13,27
	IESO_AC-NY Scheduling Limit	11,17,25,27
	NE_AC Active DNI Ramp Limit	1,8,13,14
	NE_AC-NY Scheduling Limit	1,13,18
	NE_NNC1385-NY Scheduling Limit	7,25,27
	PJM_AC-NY Scheduling Limit	13,14,17
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East	1,4,5,9,11,12,18,19
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West	6,8,9,14,17,25,27

### 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	

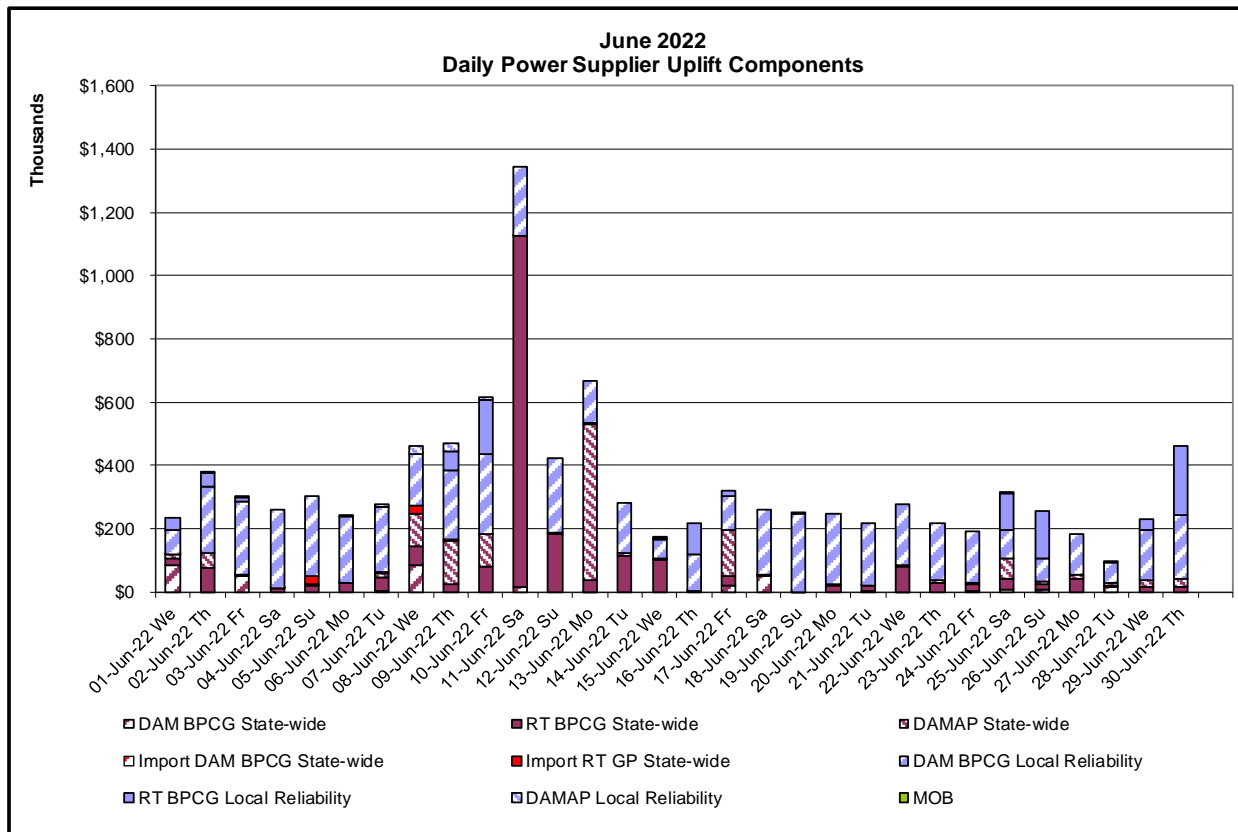
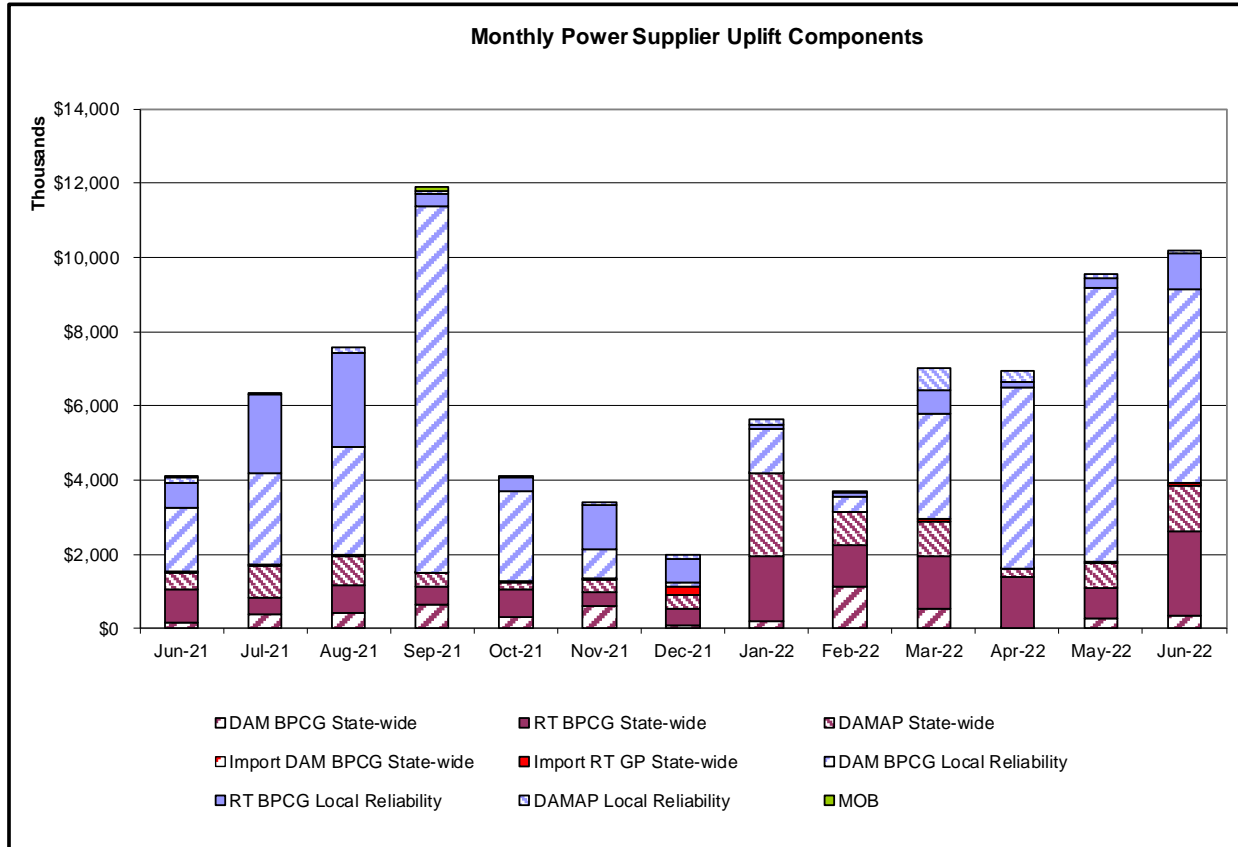
#### Monthly Balancing Market Congestion Report Assumptions/Notes

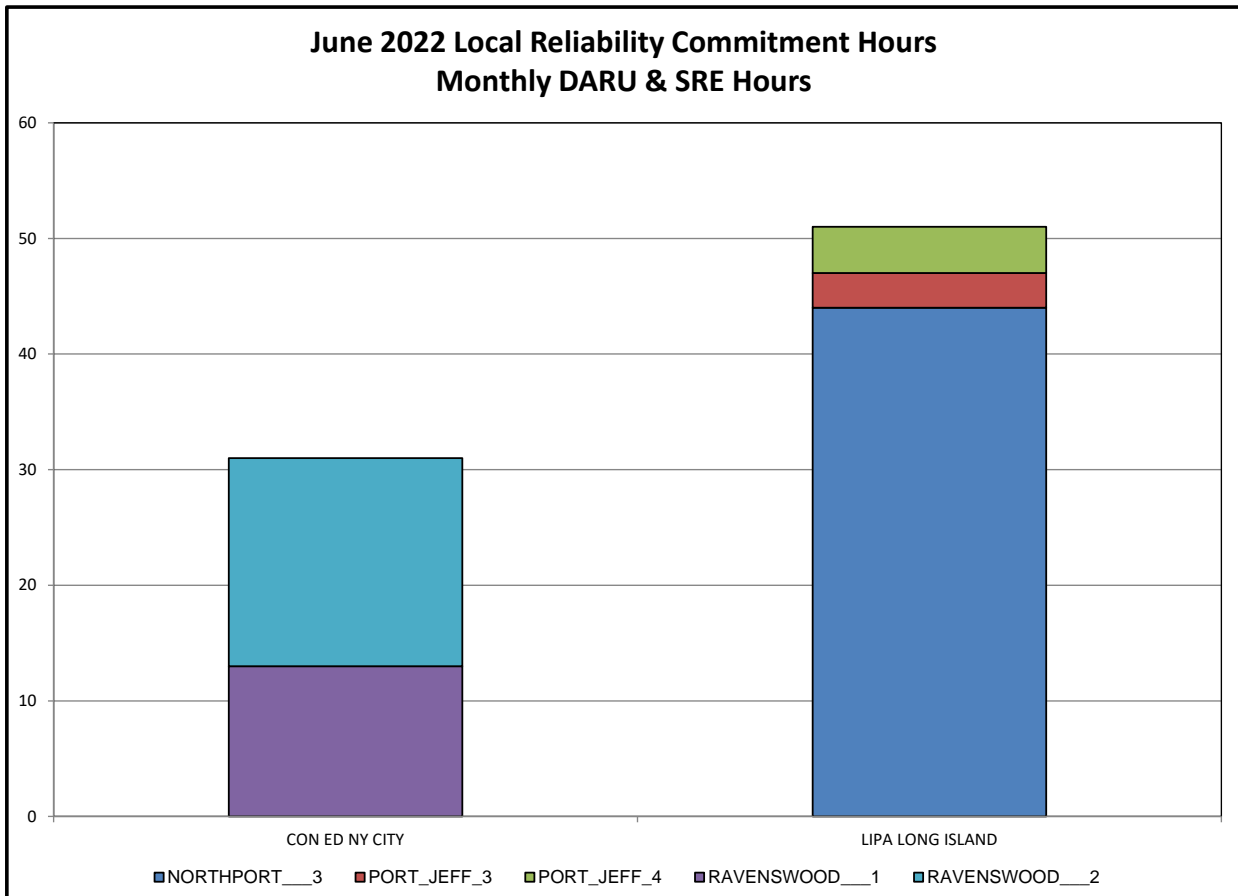
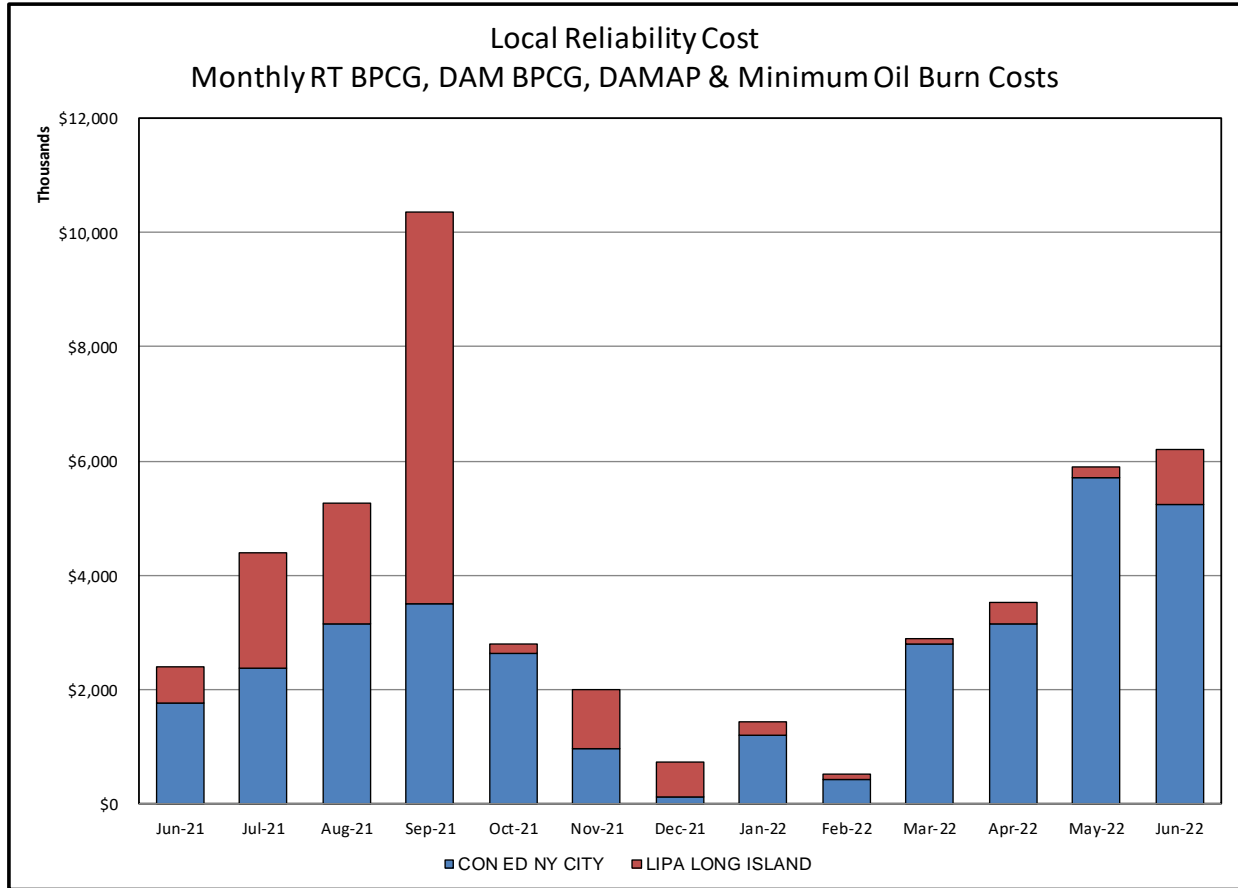
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

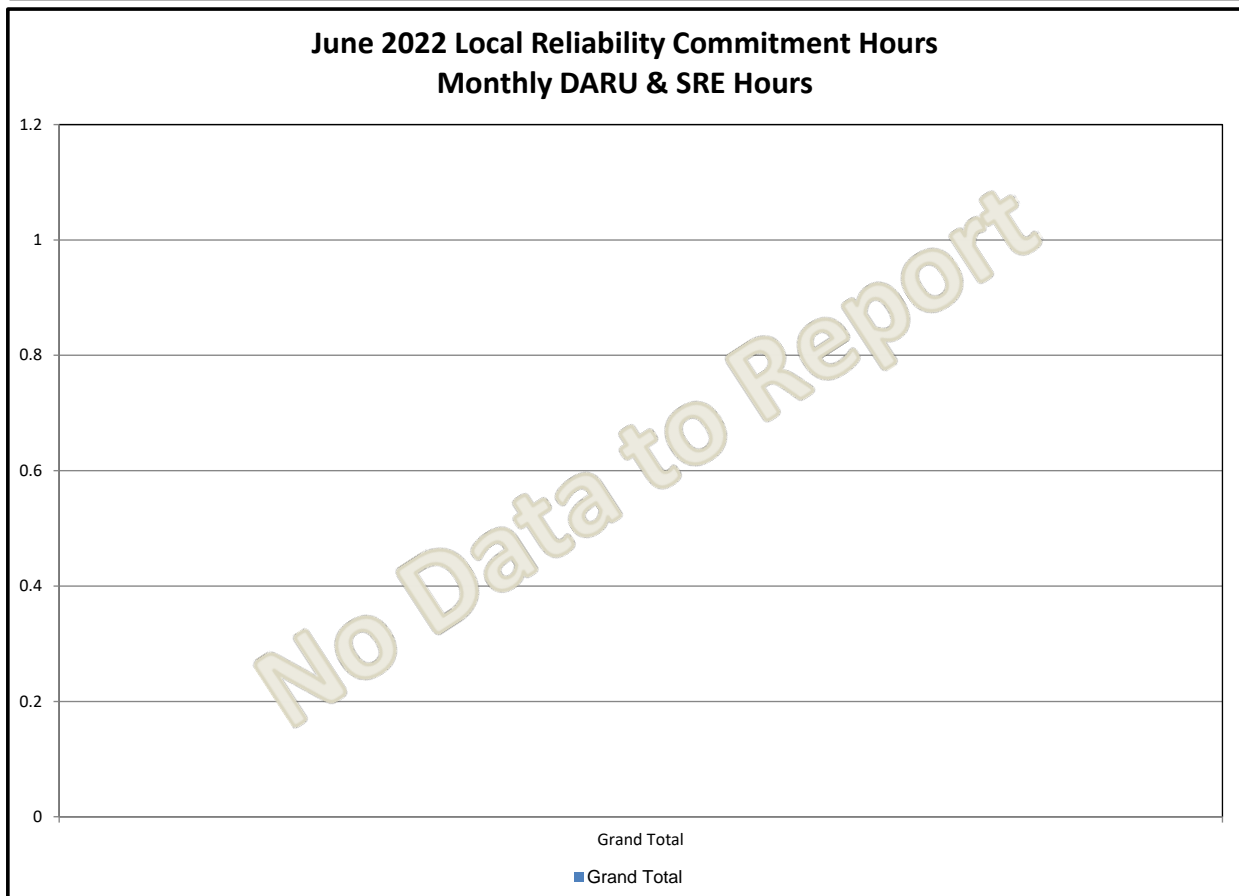
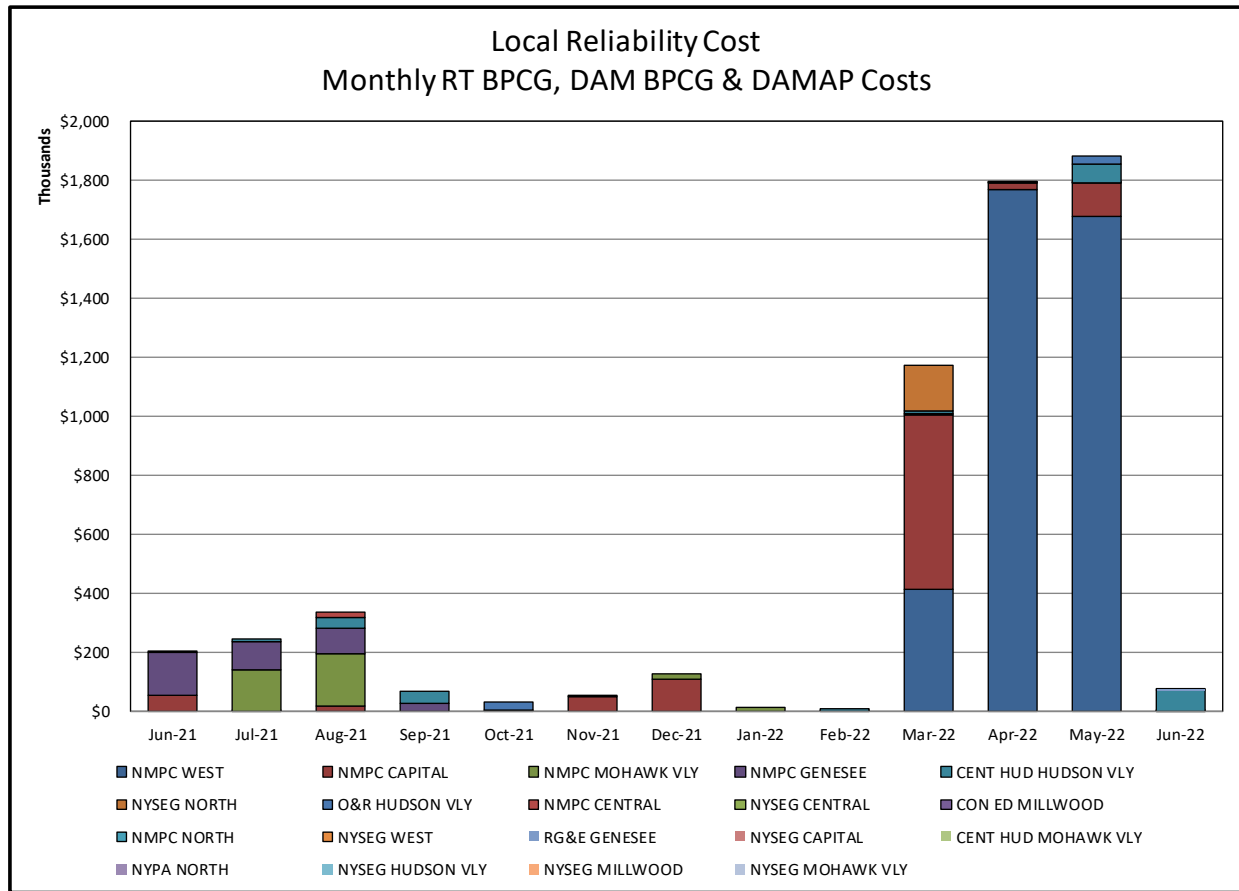


### Day-Ahead Market Congestion Residual Categories

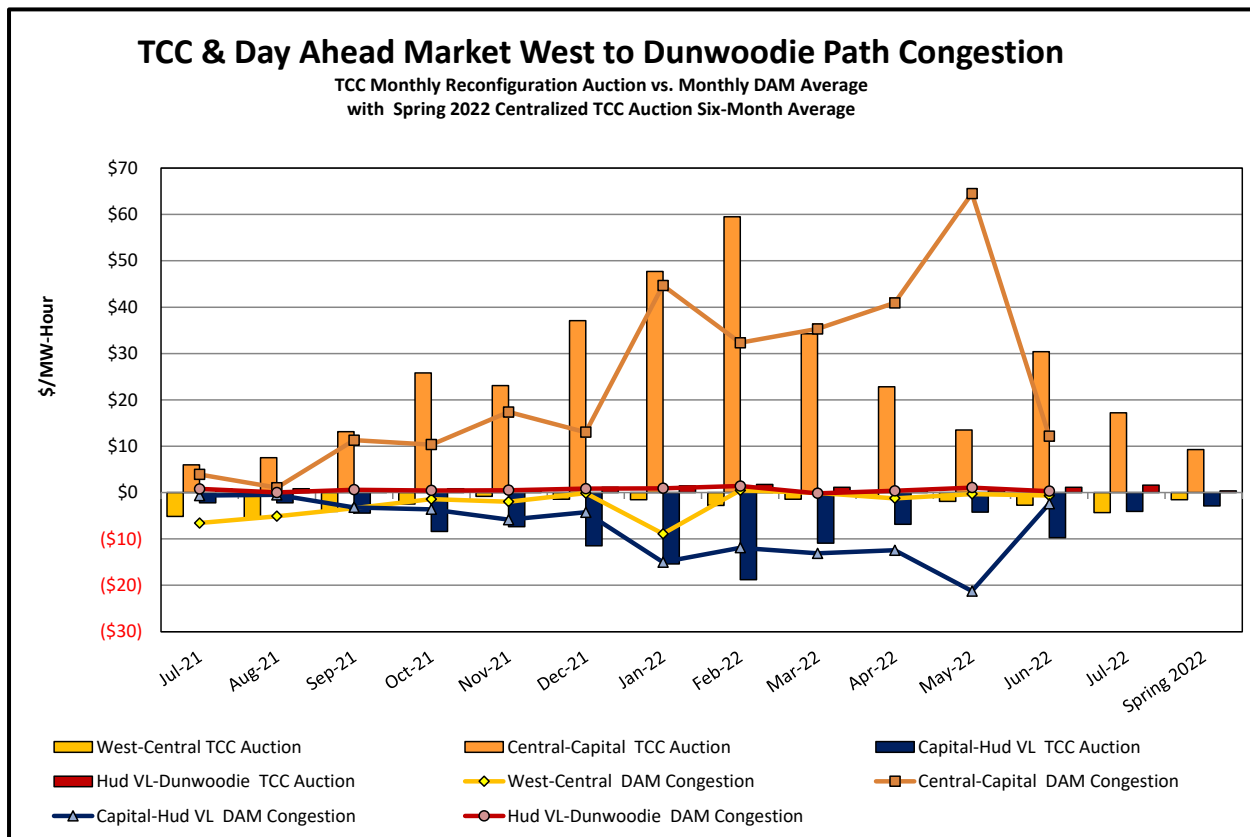
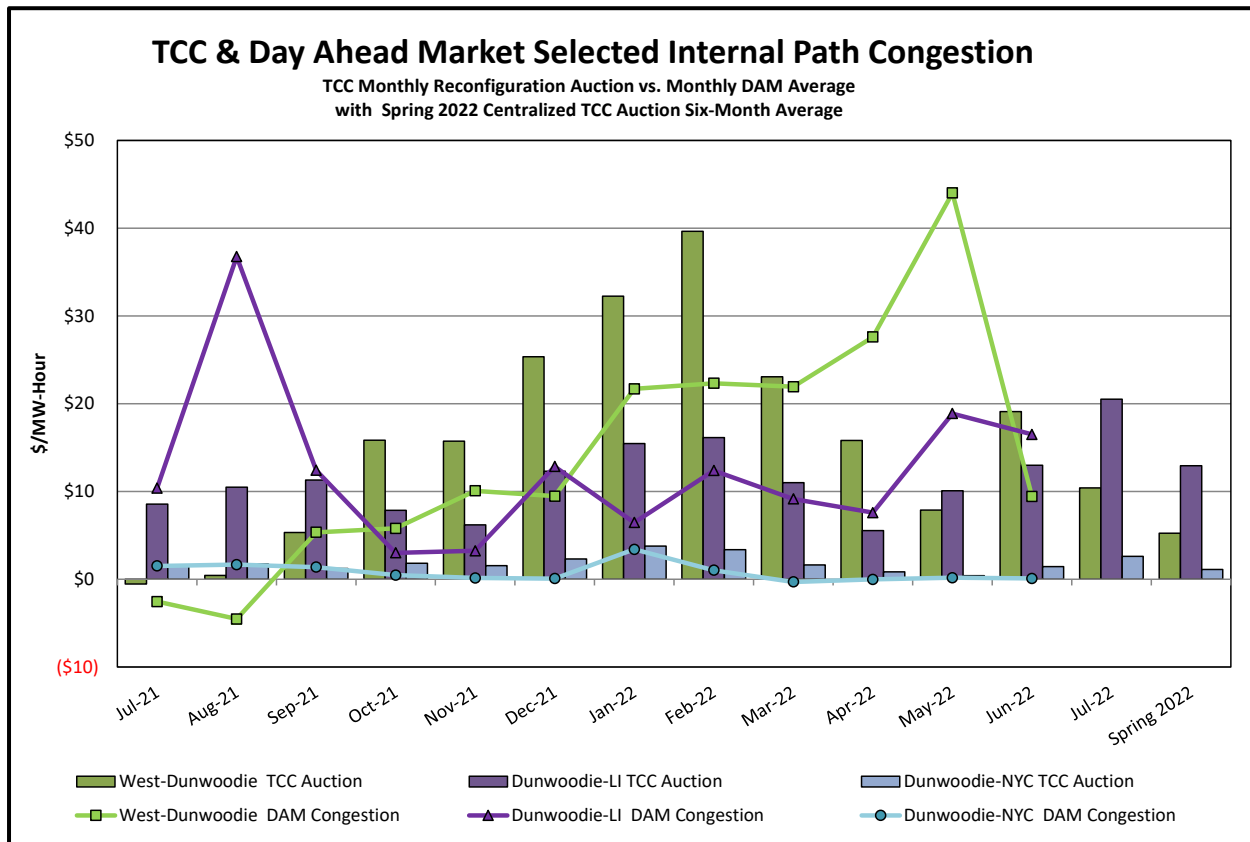
<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
Incremental TCC/External 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.	

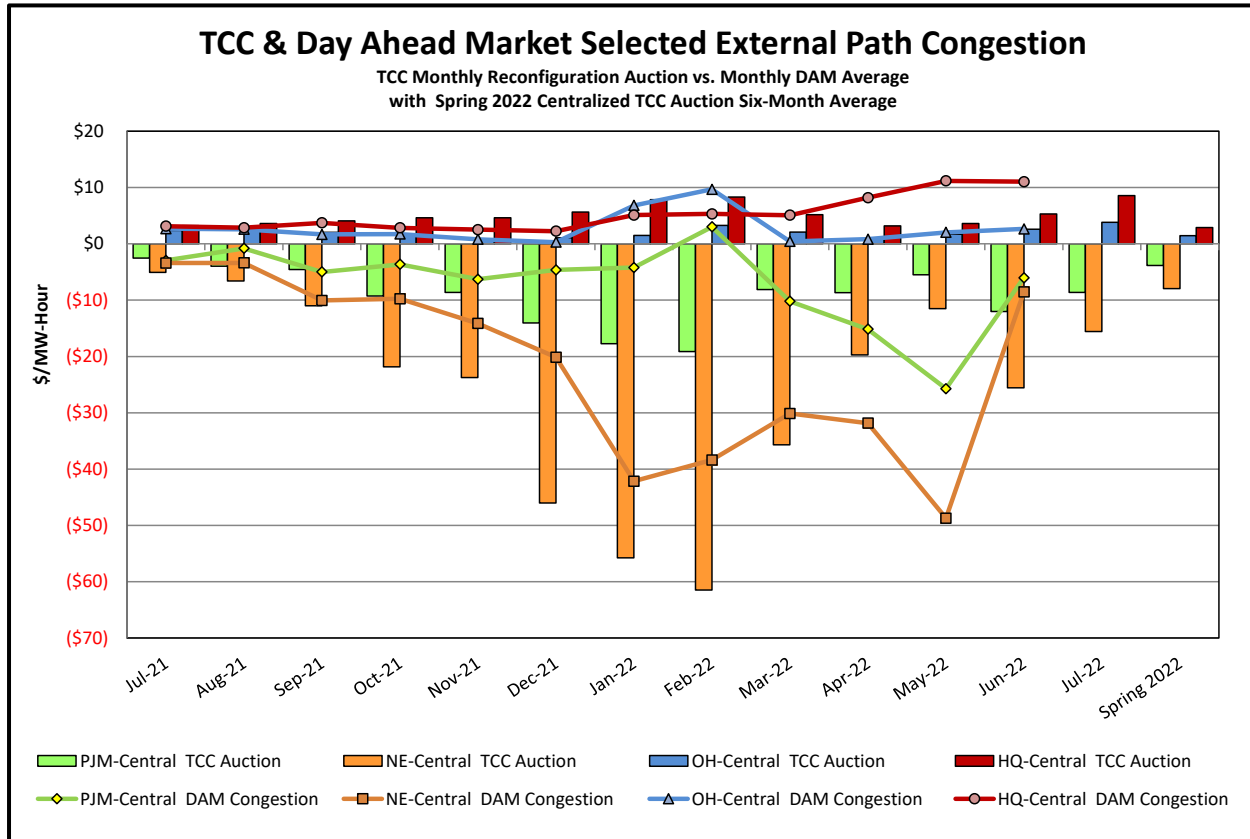




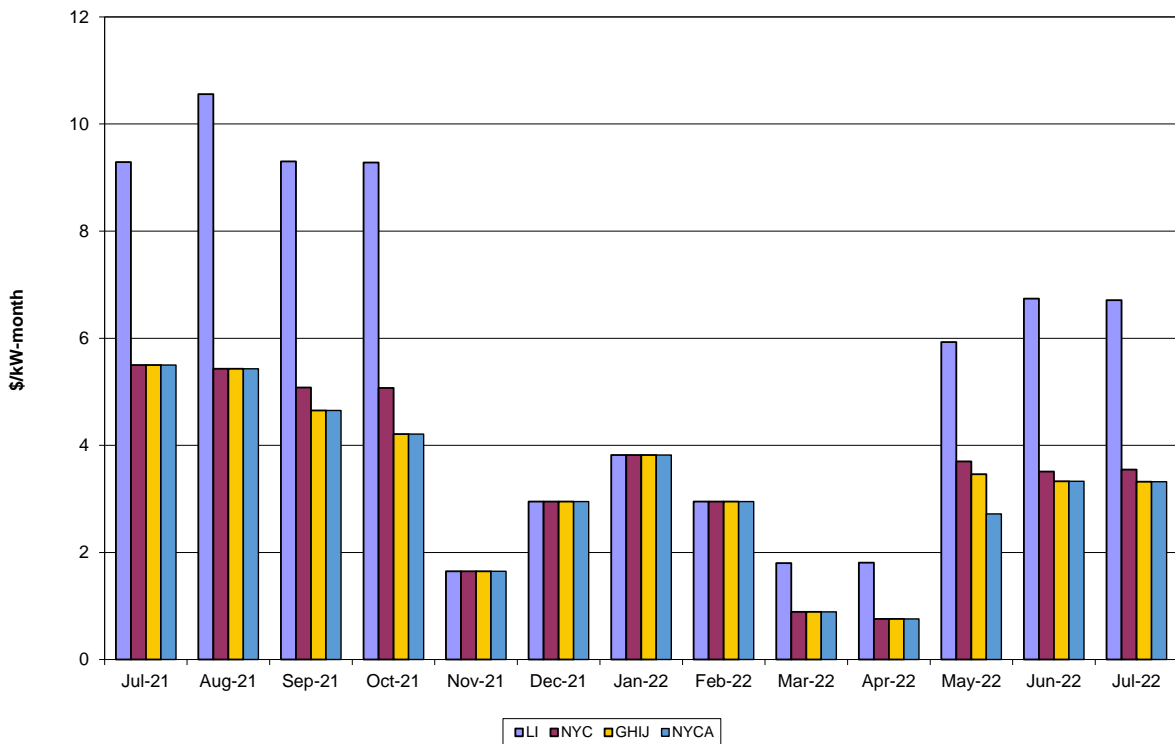




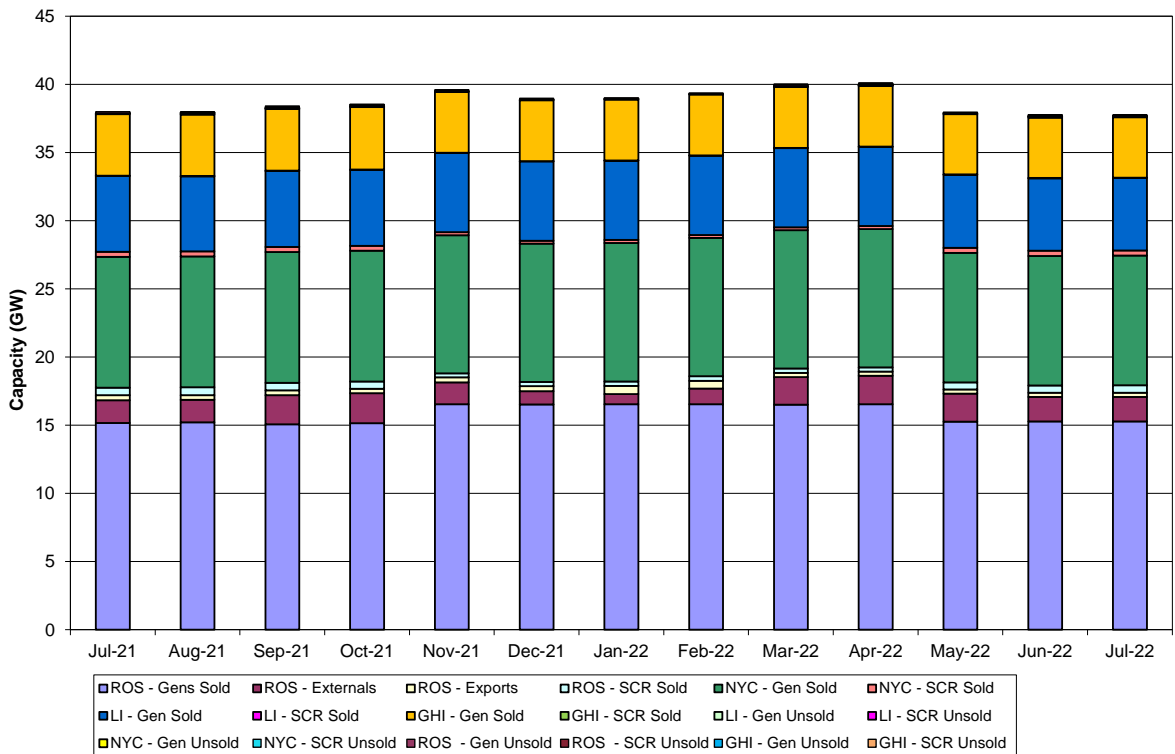




ICAP Spot Market Clearing Price



UCAP Sales

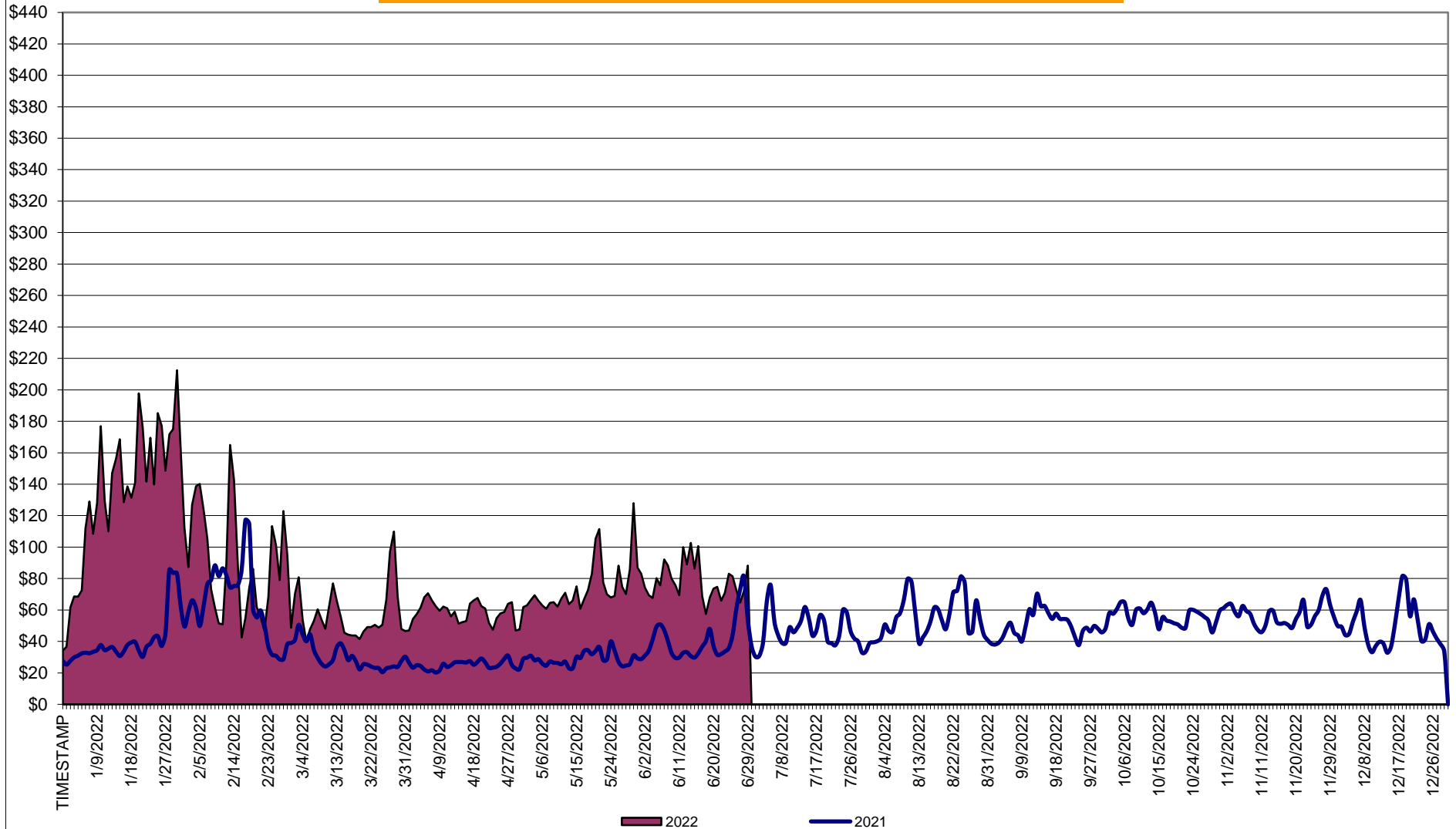


# Market Performance Highlights

## June 2022

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

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



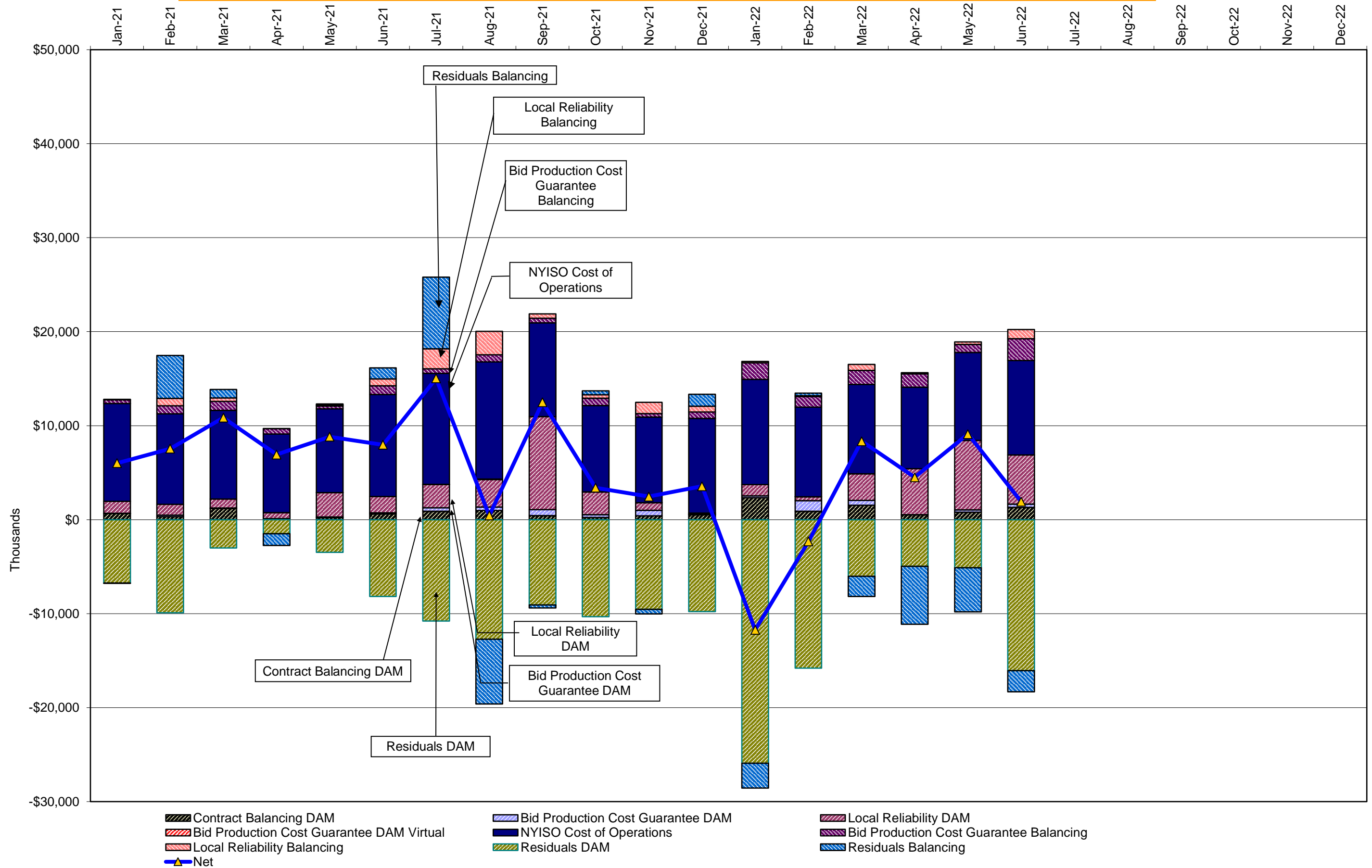
\* Excludes ICAP payments.

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

<b>2022</b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	134.79	94.06	56.78	56.46	70.60	76.72						
NTAC	1.43	0.95	1.48	1.17	2.46	2.07						
Reserve	1.26	1.21	0.83	0.81	0.74	0.66						
Regulation	0.27	0.19	0.17	0.12	0.13	0.15						
NYISO Cost of Operations	0.73	0.72	0.74	0.74	0.74	0.75						
FERC Fee Recovery	0.07	0.08	0.09	0.10	0.09	0.08						
Uplift	(1.50)	(1.73)	(0.09)	(0.36)	(0.05)	(0.61)						
Uplift: Local Reliability Share	0.09	0.04	0.27	0.43	0.60	0.46						
Uplift: Statewide Share	(1.59)	(1.77)	(0.36)	(0.79)	(0.65)	(1.07)						
Voltage Support and Black Start	0.42	0.41	0.43	0.43	0.43	0.43						
<b>Avg Monthly Cost</b>	137.41	95.82	60.34	59.38	75.07	80.17						
 Avg YTD Cost	137.49	118.36	100.65	91.92	88.82	87.37						
 TSA \$ per NYC MWh	0.00	2.98	0.00	0.00	0.11	0.00						
 <b>2021</b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	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
<b>Avg Monthly Cost</b>	40.61	66.87	31.81	26.06	29.45	42.65	48.79	57.73	50.70	56.11	57.43	50.76
 Avg YTD Cost	40.69	52.99	46.57	42.41	40.10	40.59	42.05	44.63	45.34	46.35	47.29	47.59
 TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.52	0.90	0.93	0.24	0.56	0.39	0.10	0.00

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

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



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

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

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

## NYISO Markets Transactions

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

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

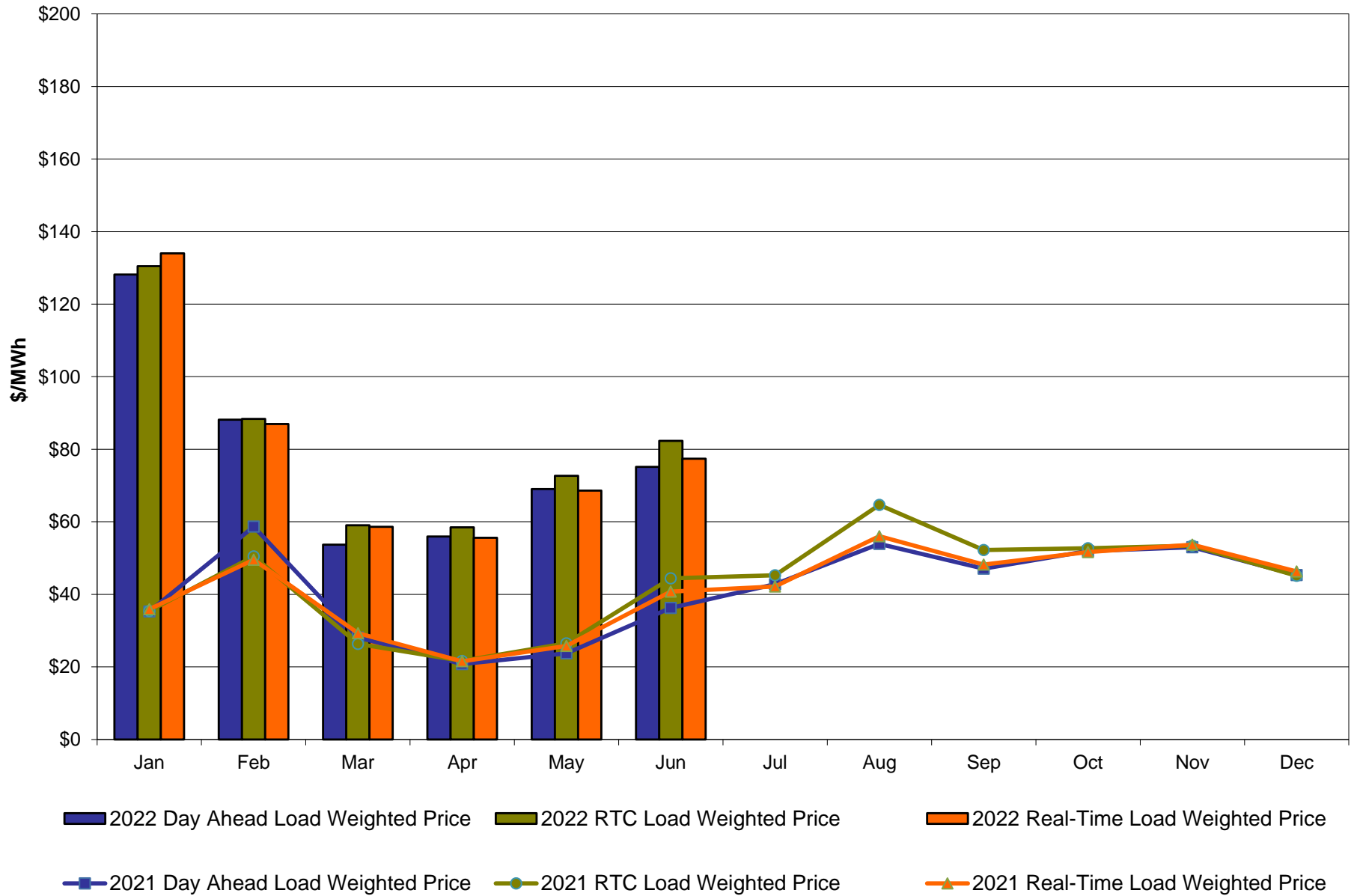
### **NYISO Markets 2021 Energy Statistics**

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>DAY AHEAD LBMP</u></b>												
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
<b><u>RTC LBMP</u></b>												
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
<b><u>REAL TIME LBMP</u></b>												
Price *	\$34.59	\$48.22	\$28.06	\$21.10	\$24.62	\$36.58	\$39.61	\$51.46	\$46.37	\$50.41	\$52.52	\$45.13
Standard Deviation	\$29.47	\$26.46	\$26.13	\$10.07	\$10.91	\$25.43	\$26.73	\$37.53	\$18.08	\$14.93	\$20.97	\$23.65
Load Weighted Price **	\$35.89	\$49.57	\$29.33	\$21.55	\$25.78	\$40.76	\$42.20	\$56.04	\$48.21	\$51.66	\$53.68	\$46.29
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458	483	504	420	373	387	408

\* Average zonal load weighted prices.

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

# **NYISO Monthly Average Internal LBMPs 2021 - 2022**

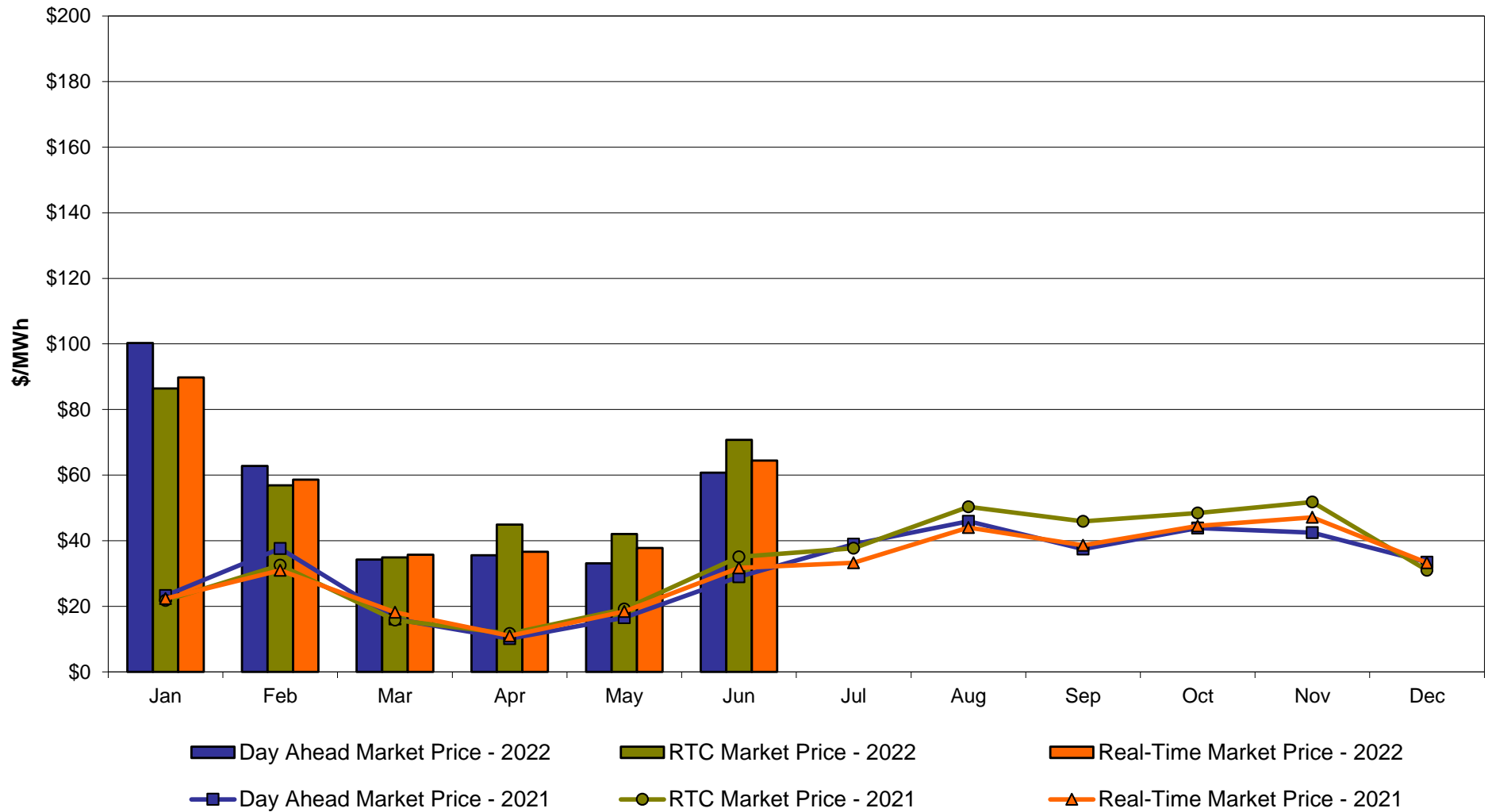


**June 2022 Zonal LBMP Statistics for NYISO (\$/MWh)**

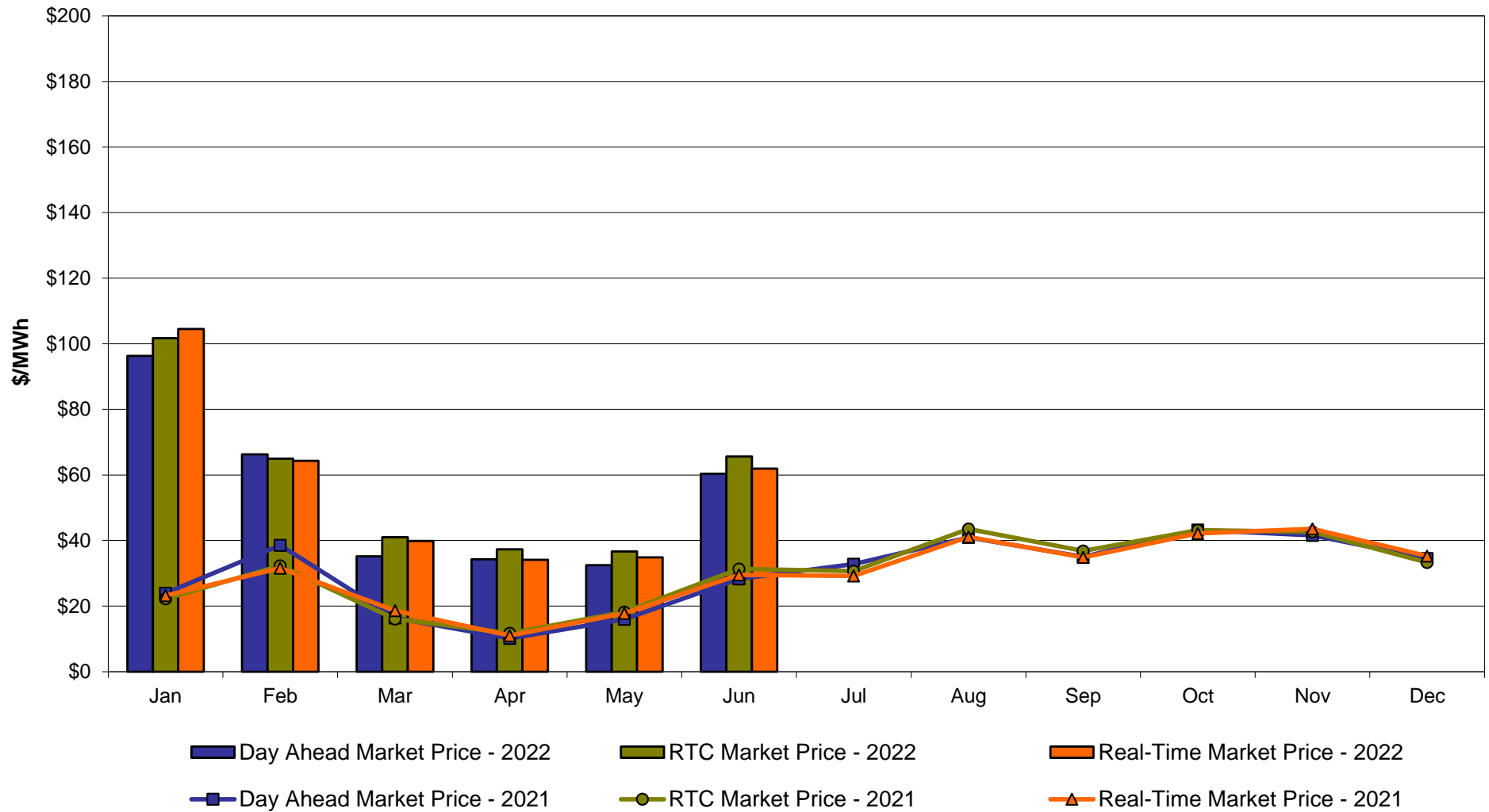
	<b><u>WEST Zone A</u></b>	<b><u>GENESEE Zone B</u></b>	<b><u>NORTH Zone D</u></b>	<b><u>CENTRAL Zone C</u></b>	<b><u>MOHAWK VALLEY Zone E</u></b>	<b><u>CAPITAL Zone F</u></b>	<b><u>HUDSON VALLEY Zone G</u></b>	<b><u>MILLWOOD Zone H</u></b>	<b><u>DUNWOODIE Zone I</u></b>	<b><u>NEW YORK CITY Zone J</u>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

\* Straight LBMP averages

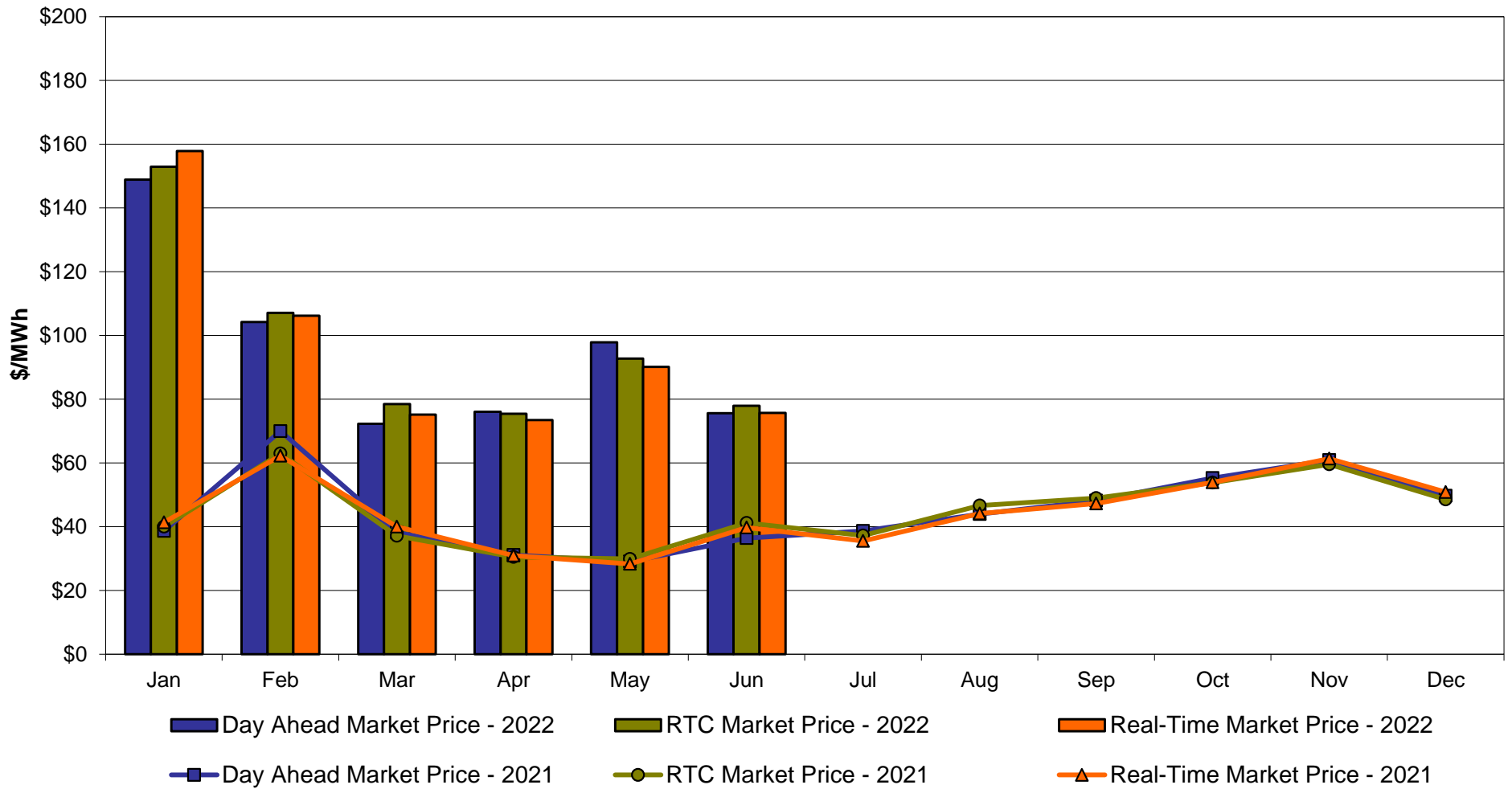
# **West Zone A** **Monthly Average LBMP Prices 2021 - 2022**



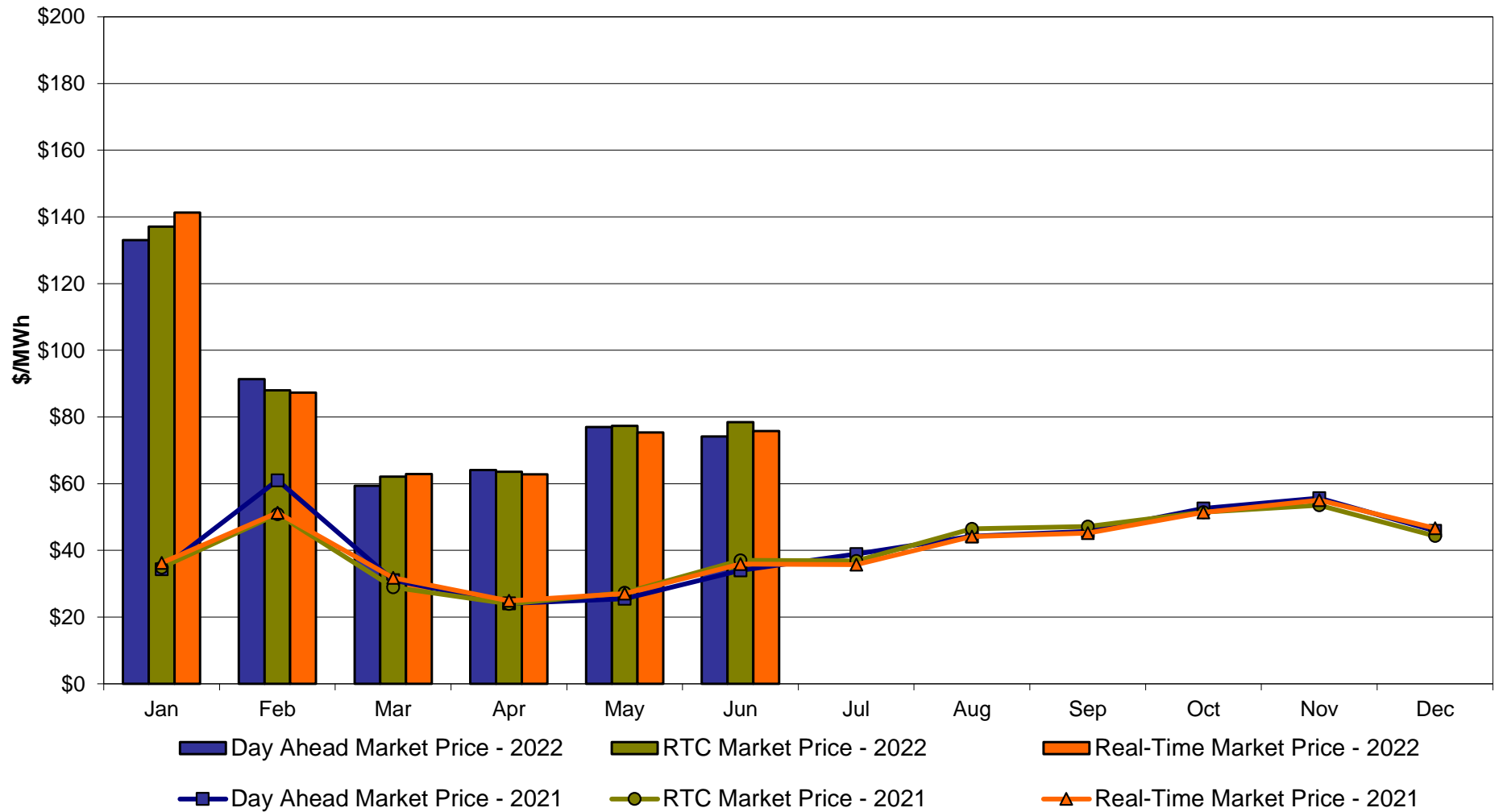
# Central Zone C Monthly Average LBMP Prices 2020 - 2021



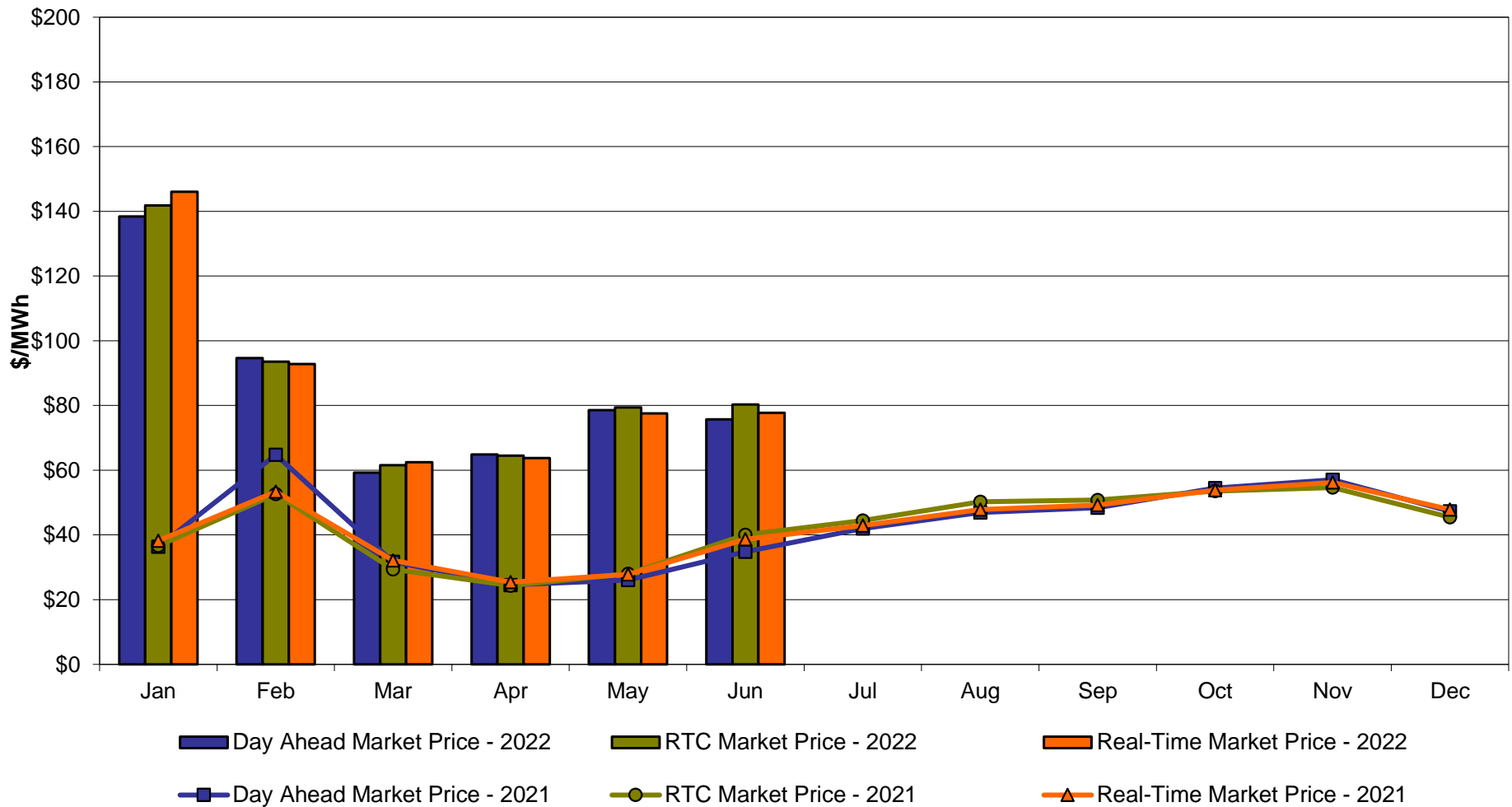
# **Capital Zone F** **Monthly Average LBMP Prices 2021 - 2022**



## Hudson Valley Zone G Monthly Average LBMP Prices 2020 - 2021

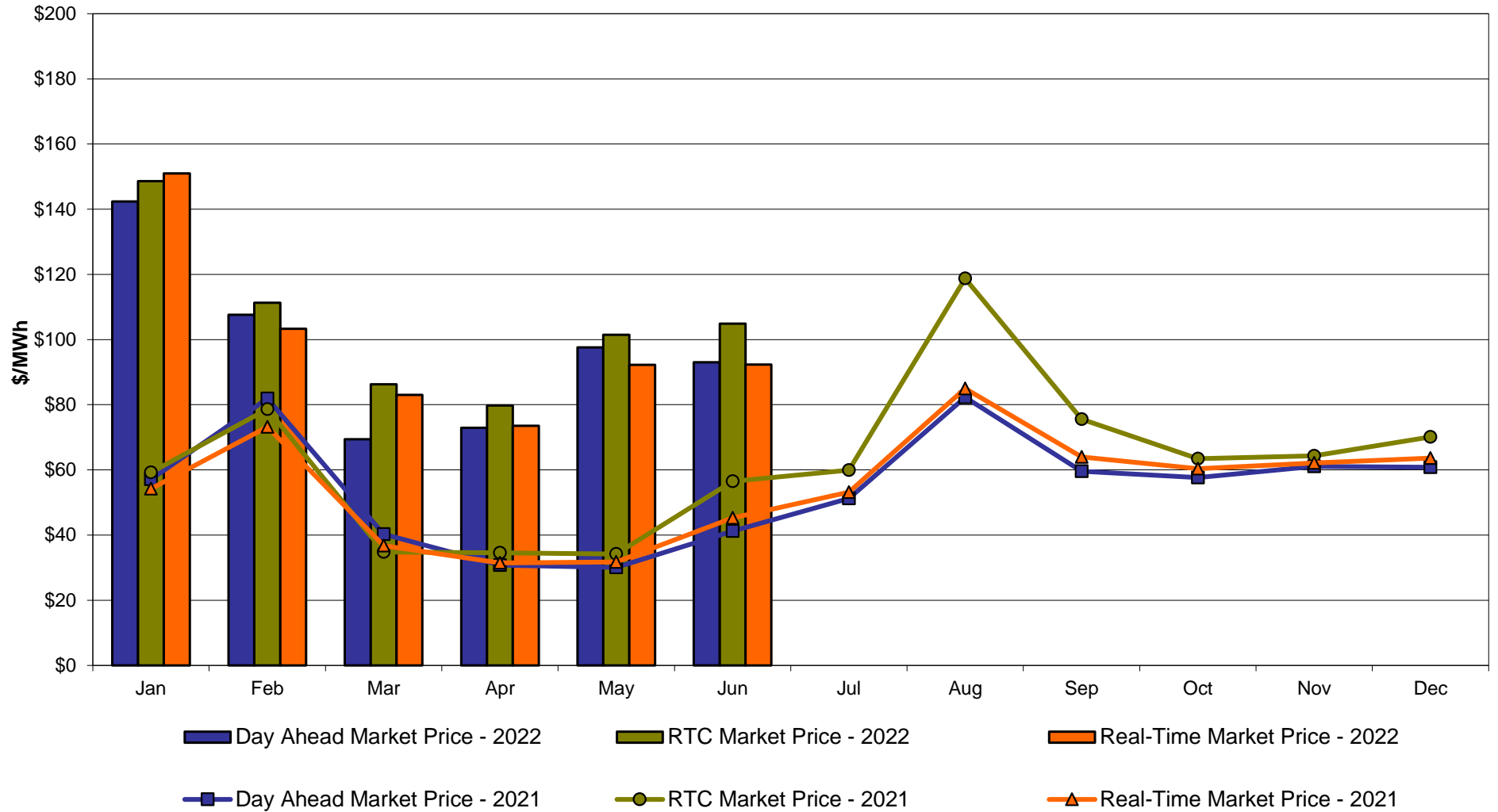


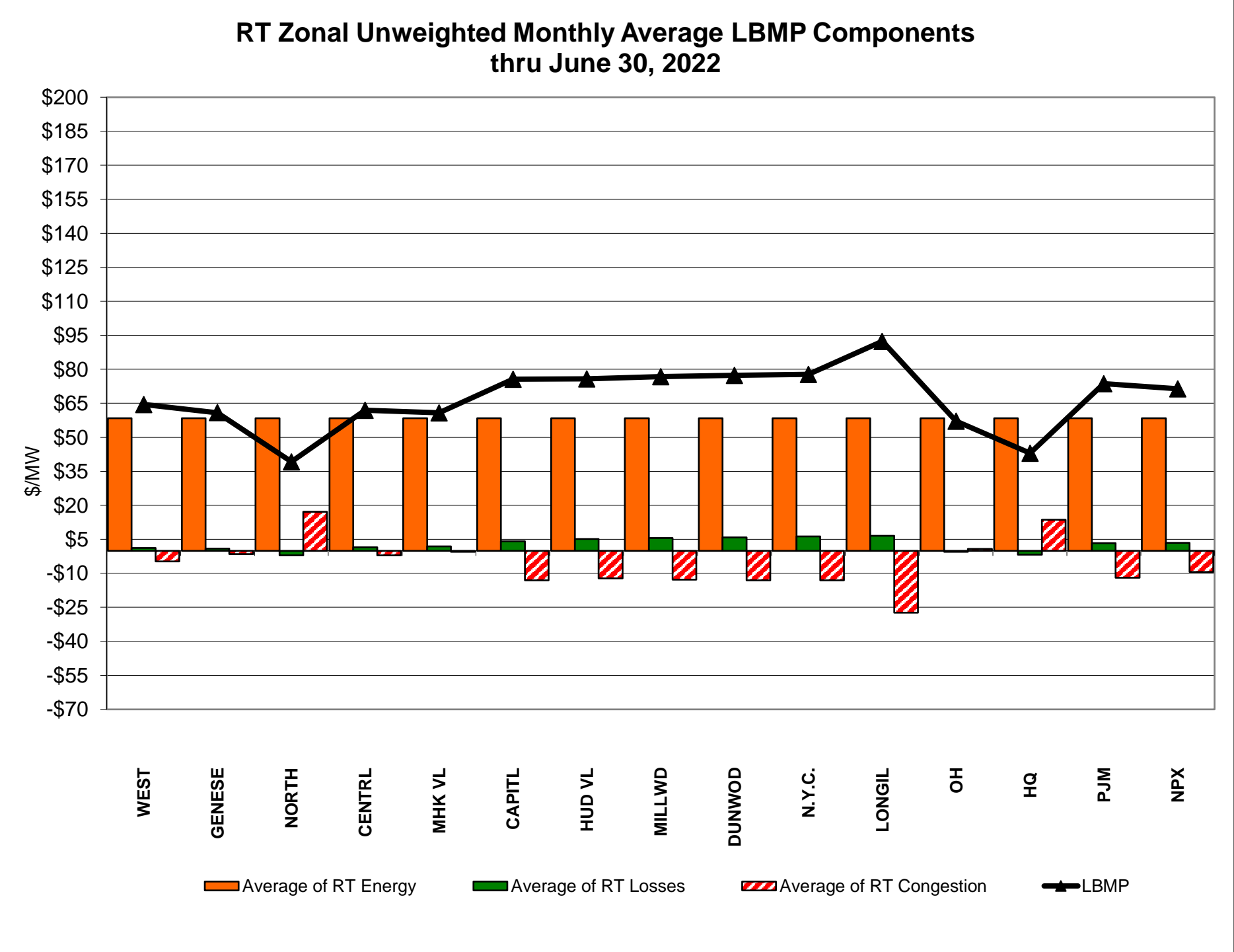
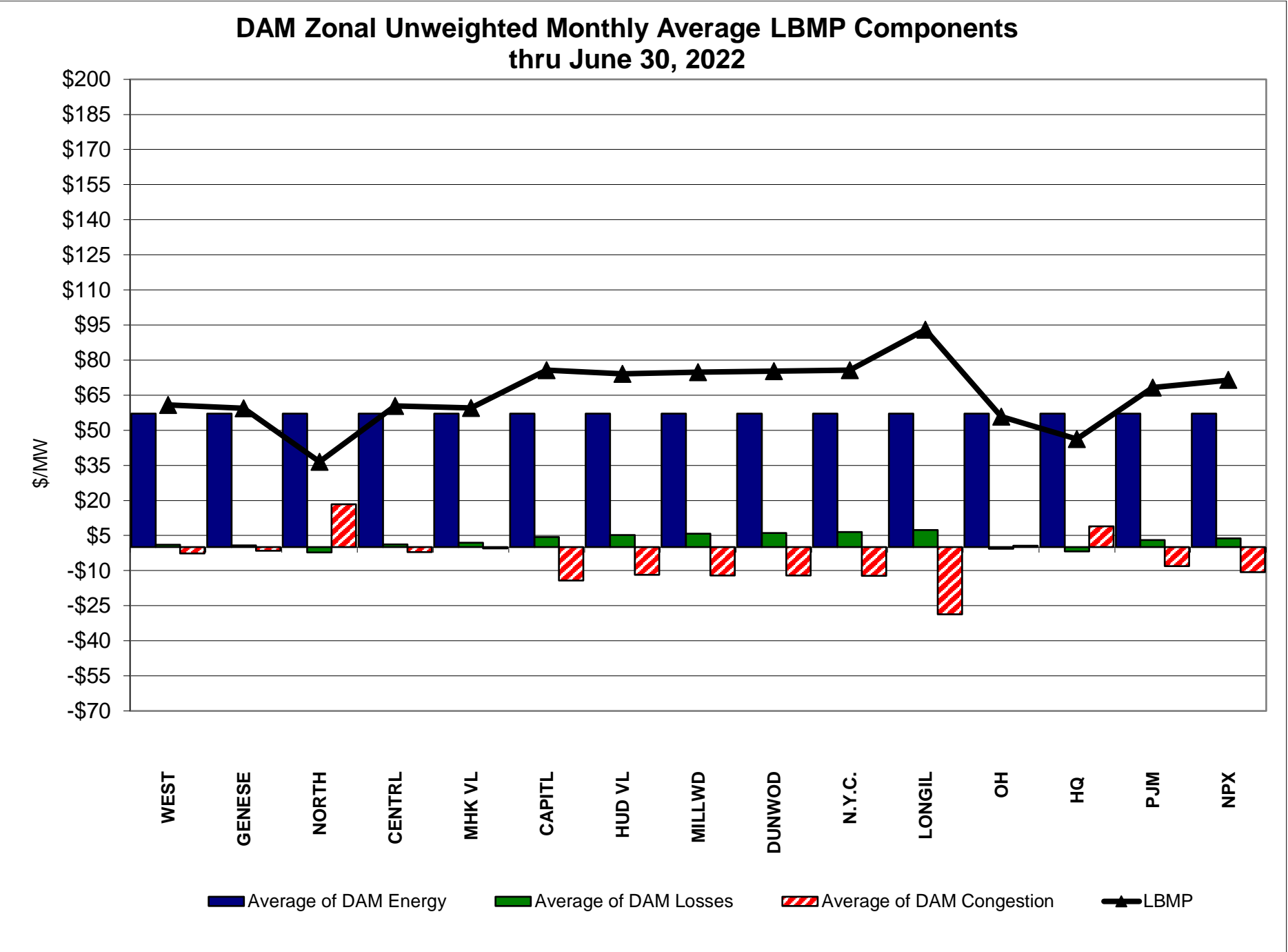
## NYC Zone J Monthly Average LBMP Prices 2021 - 2022



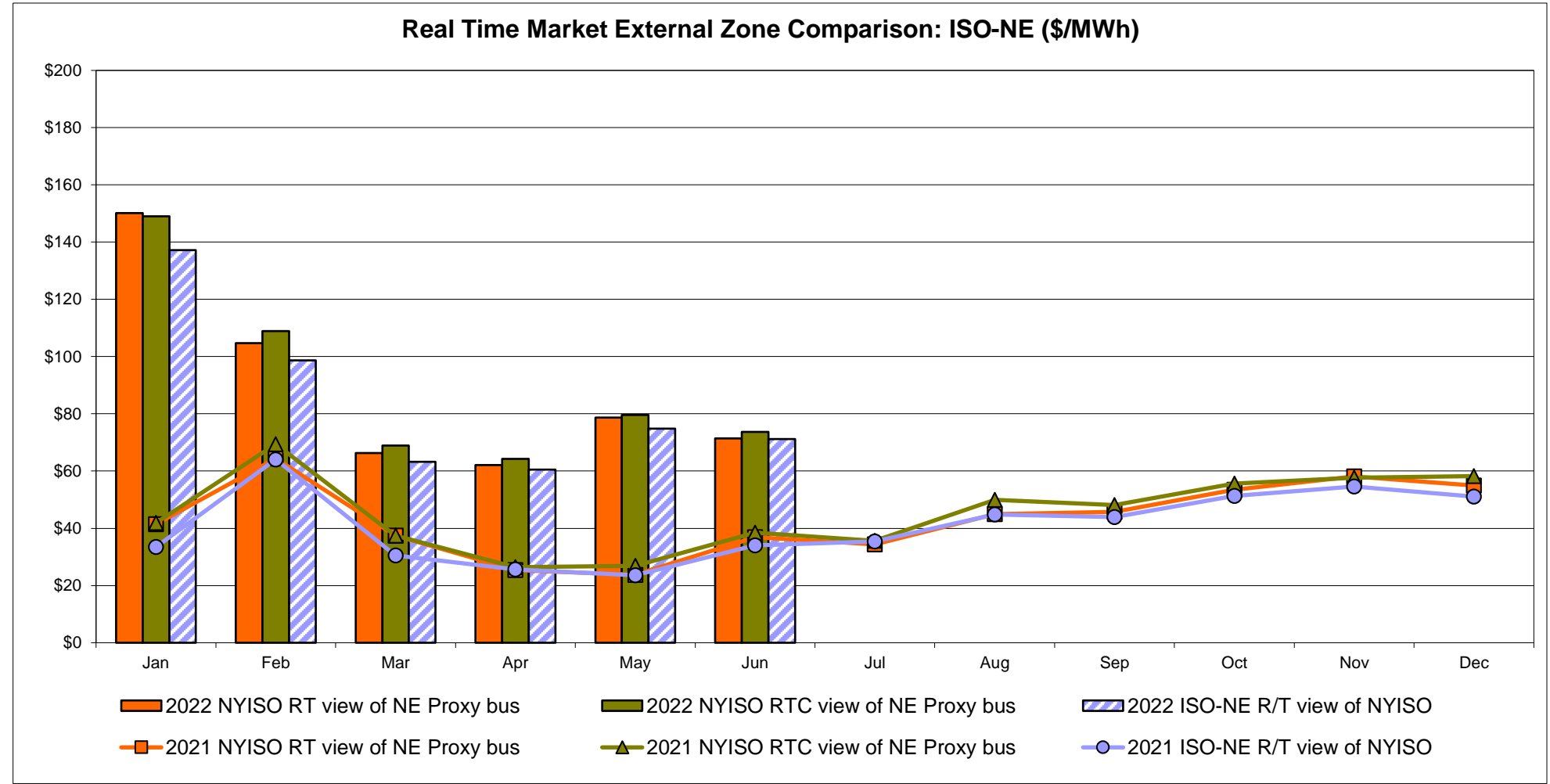
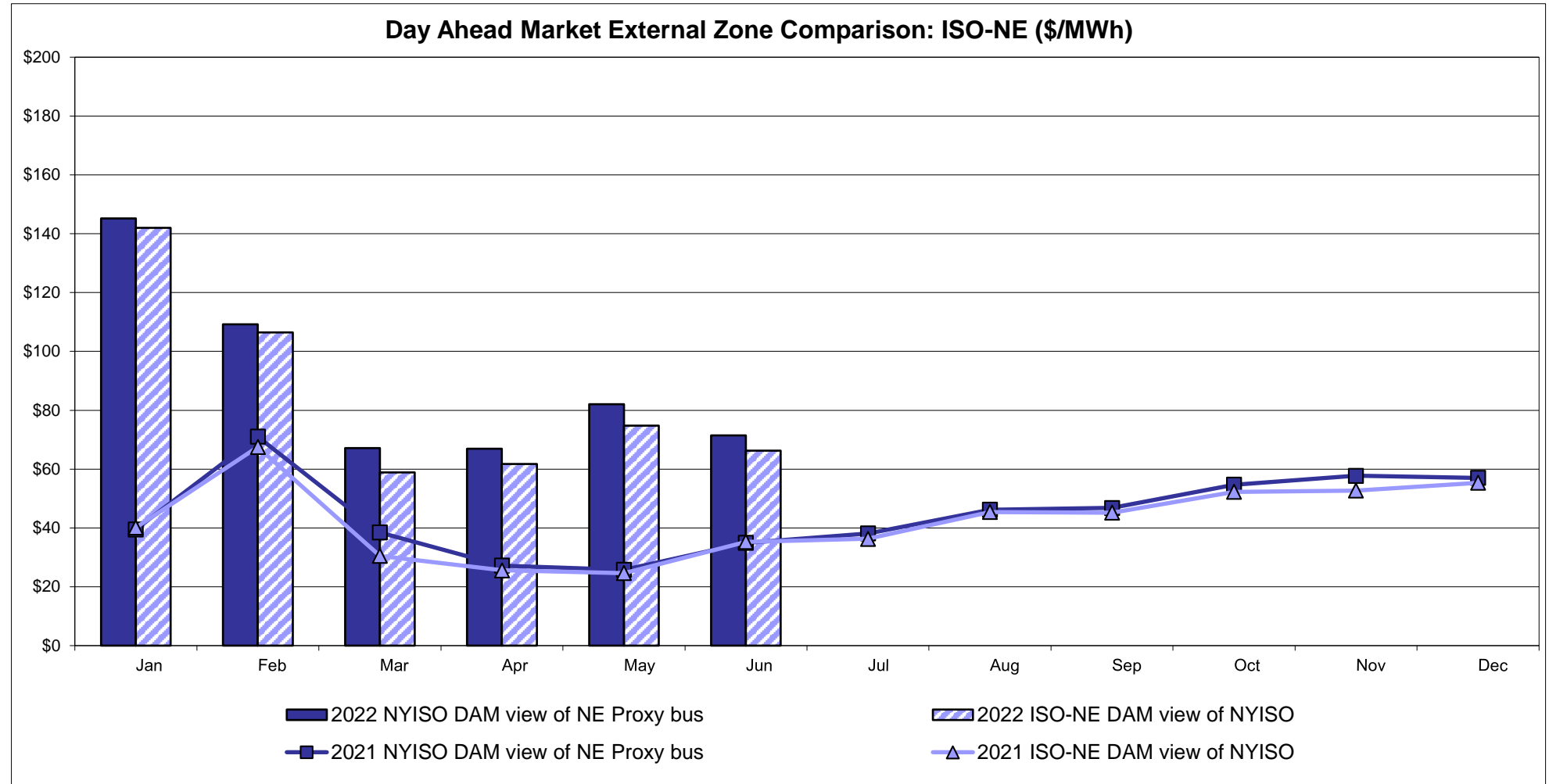


# Long Island Zone K Monthly Average LBMP Prices 2020 - 2021



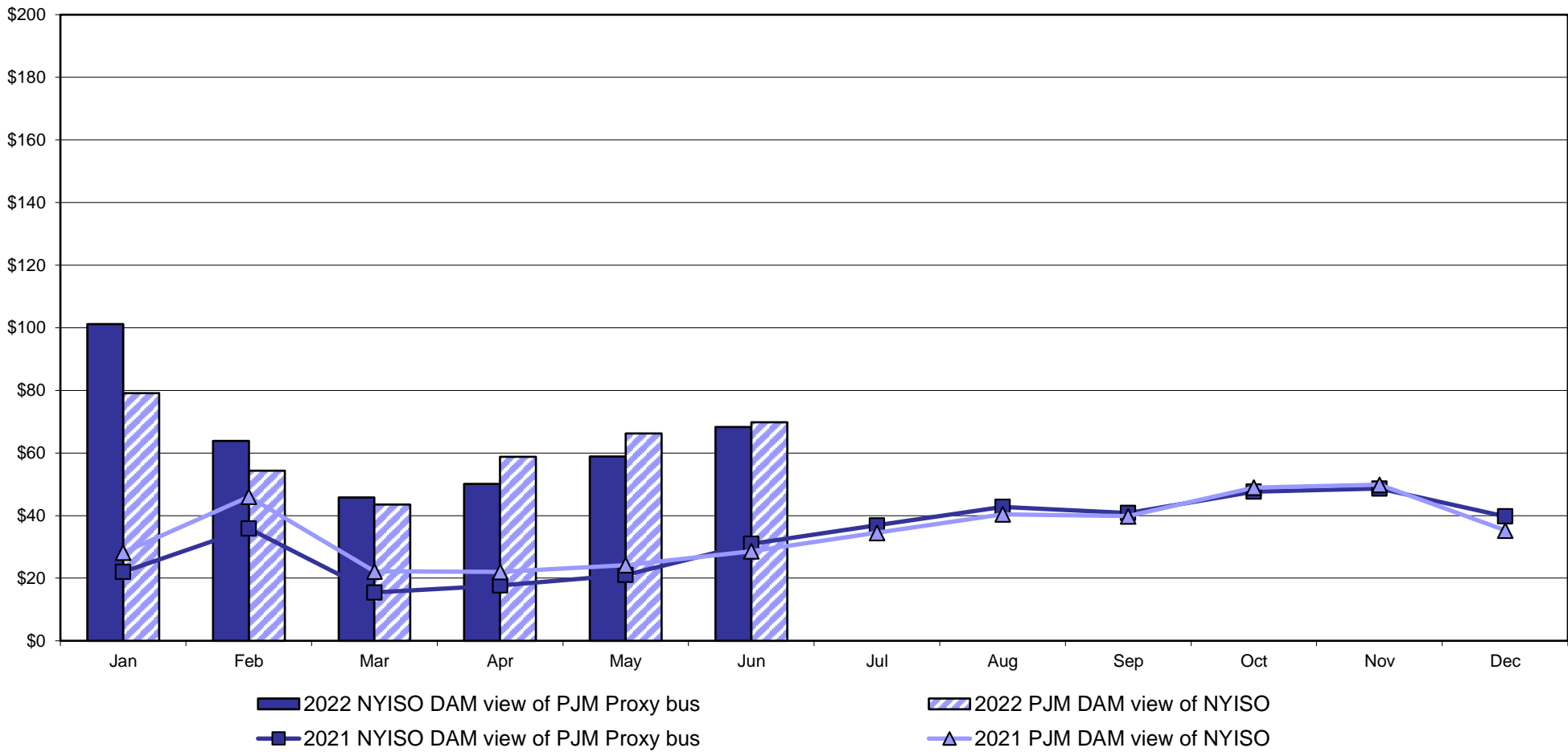


External Comparison ISO-New England

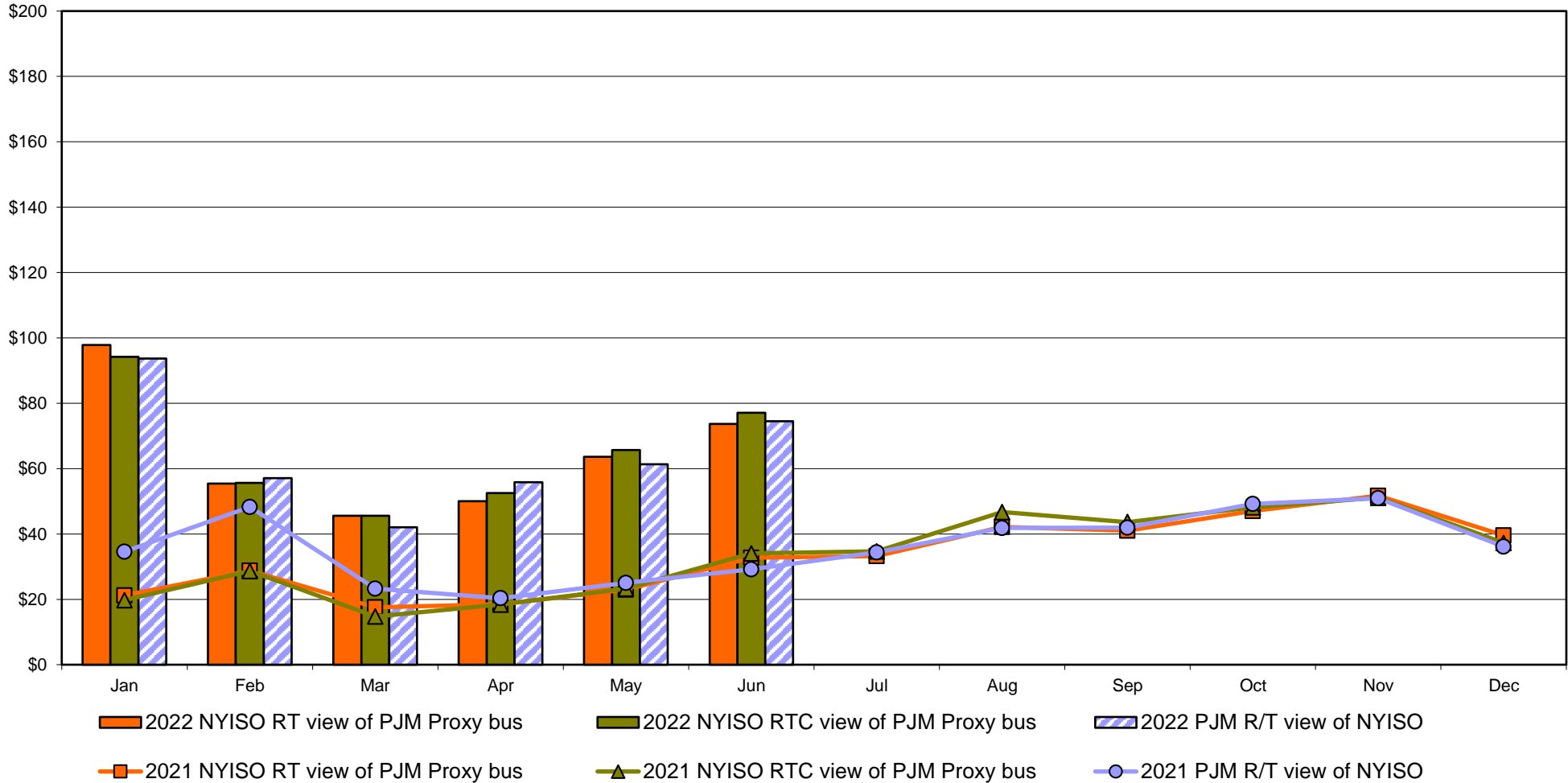


# External Comparison PJM

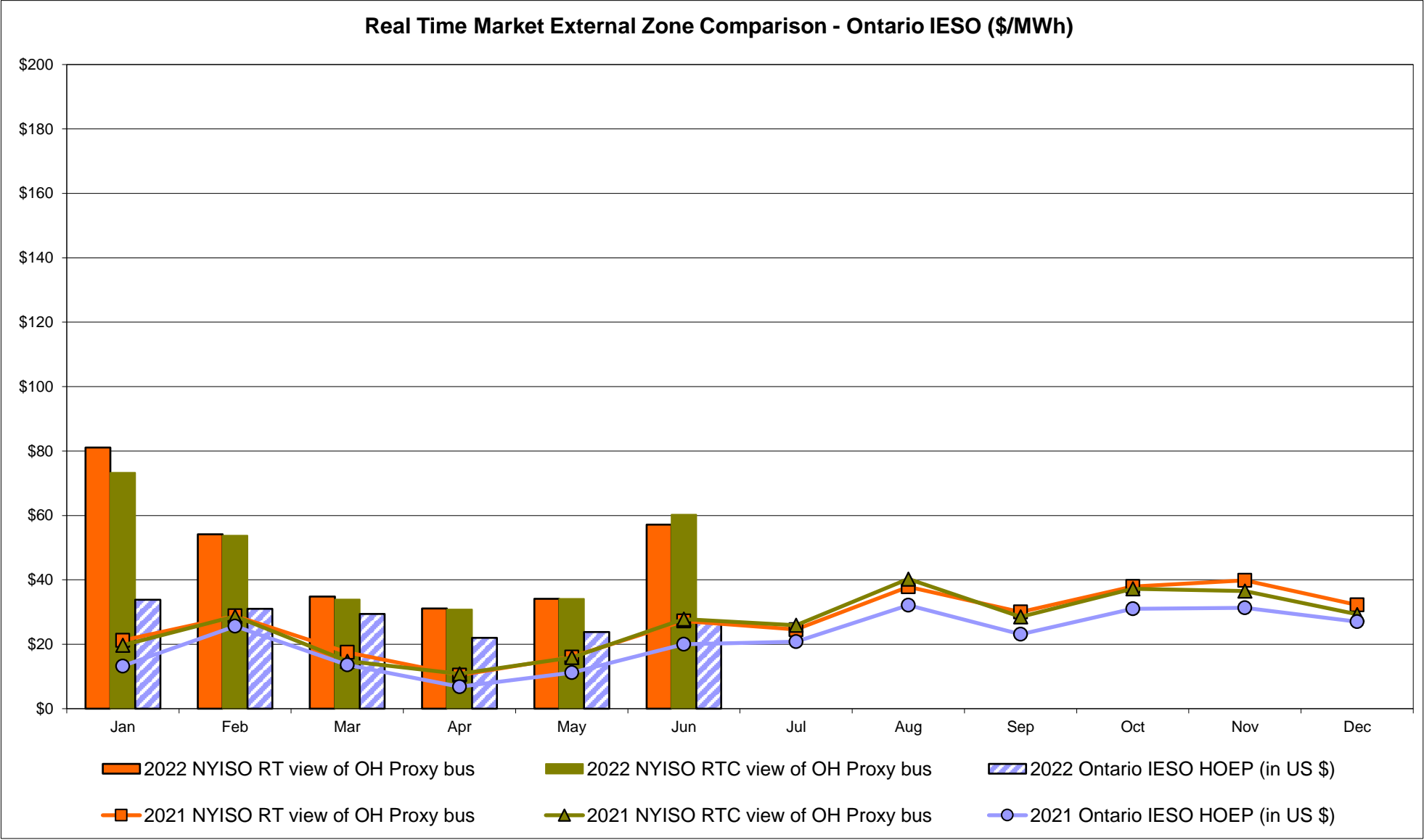
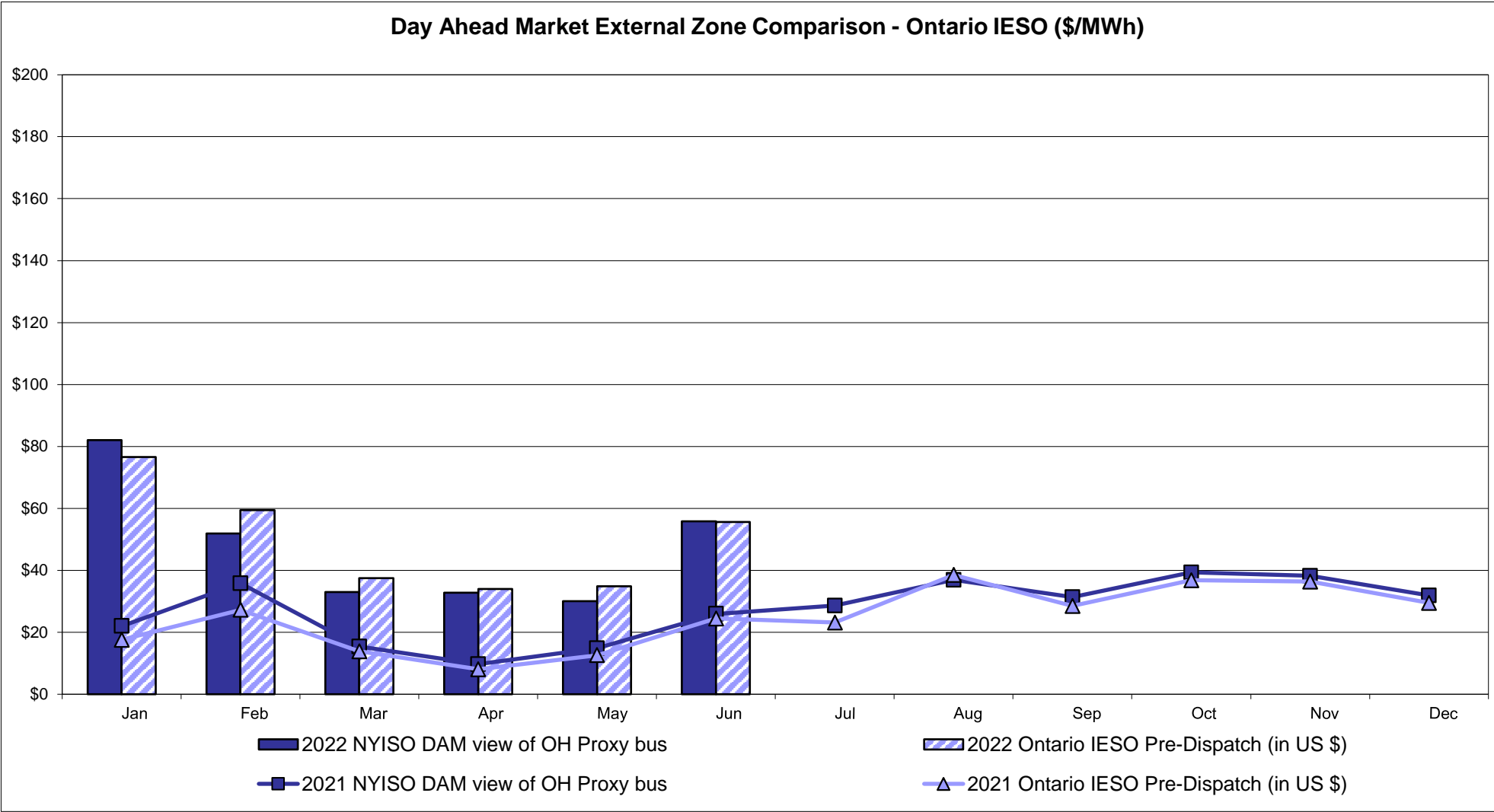
## Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

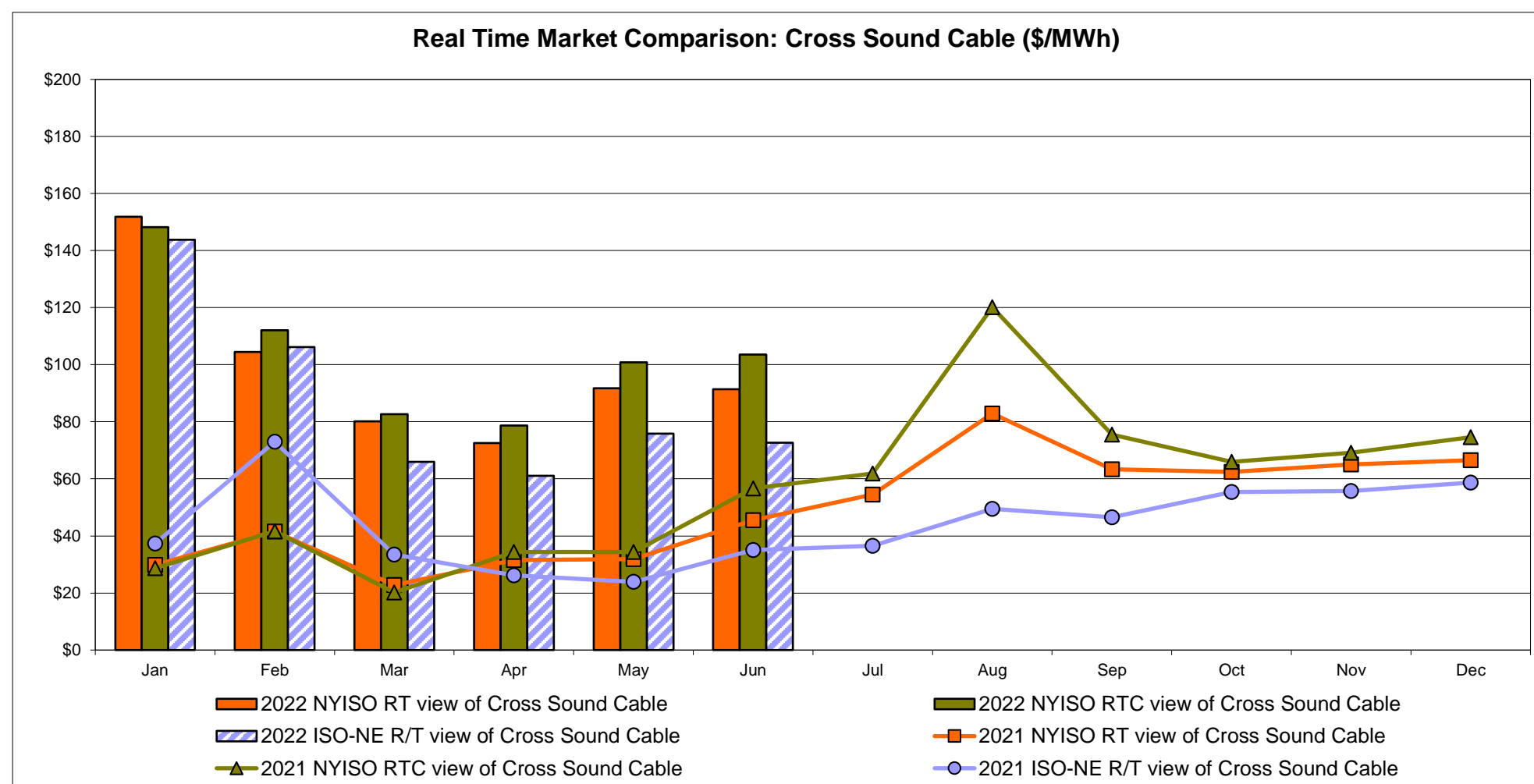
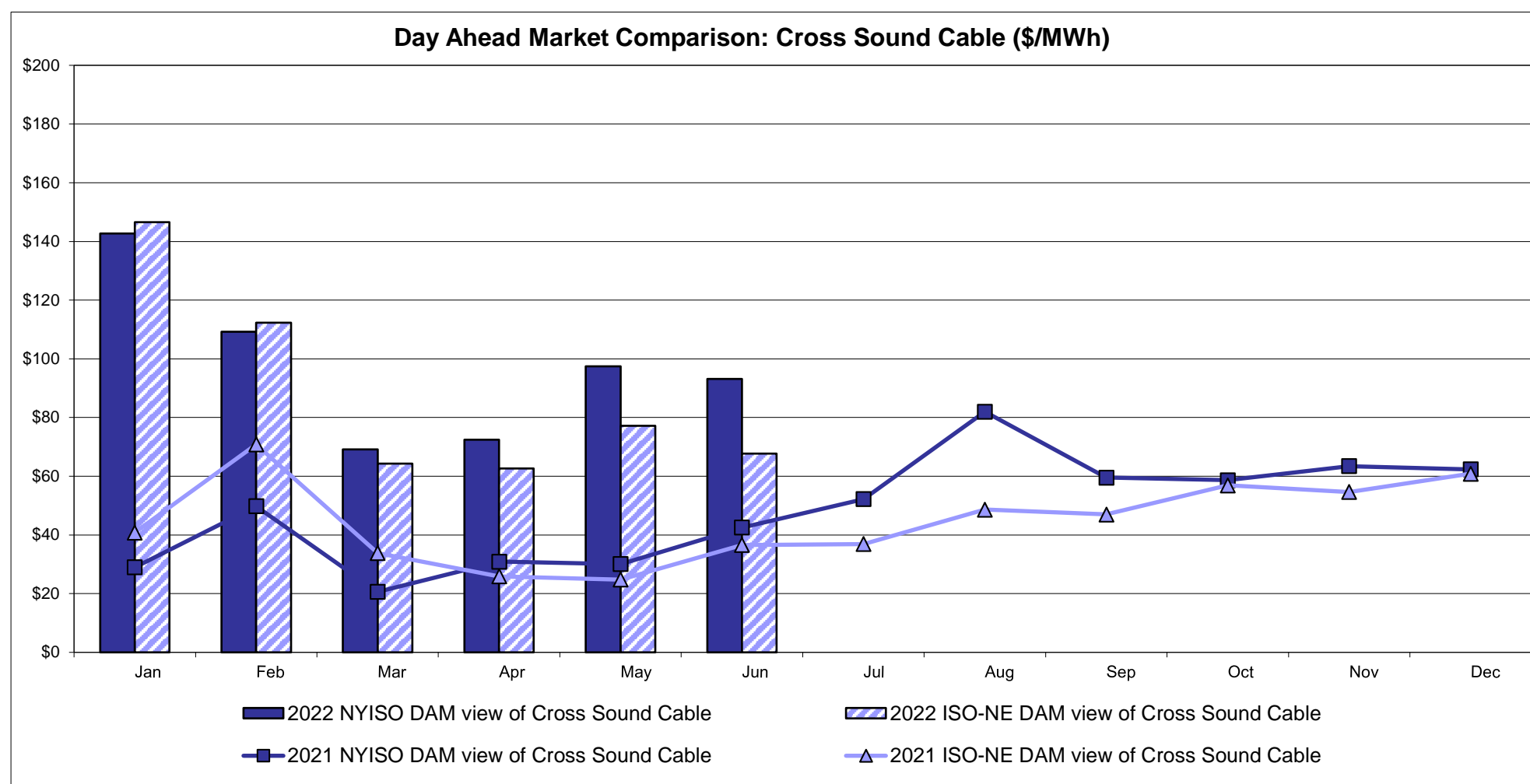


External Comparison Ontario IESO



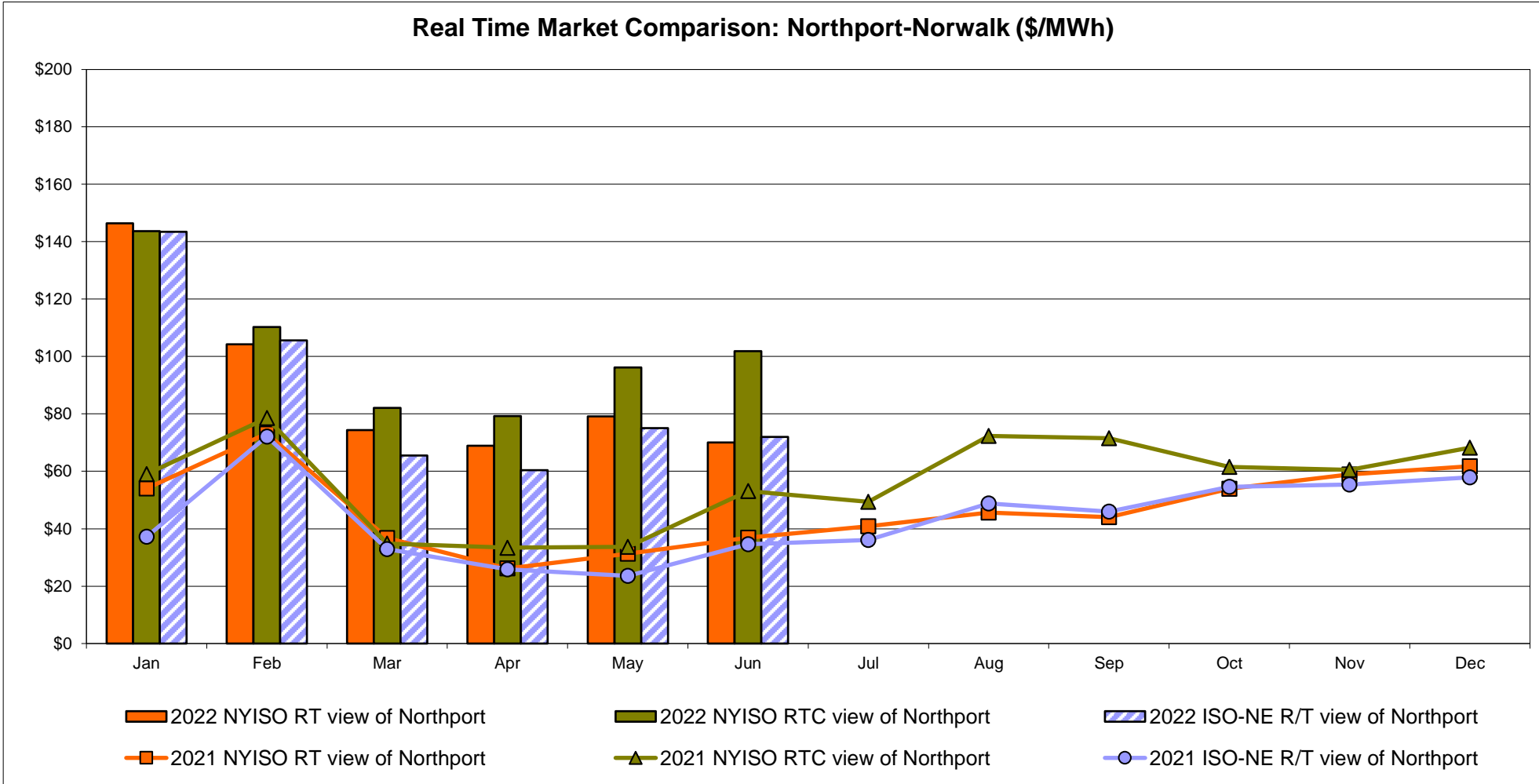
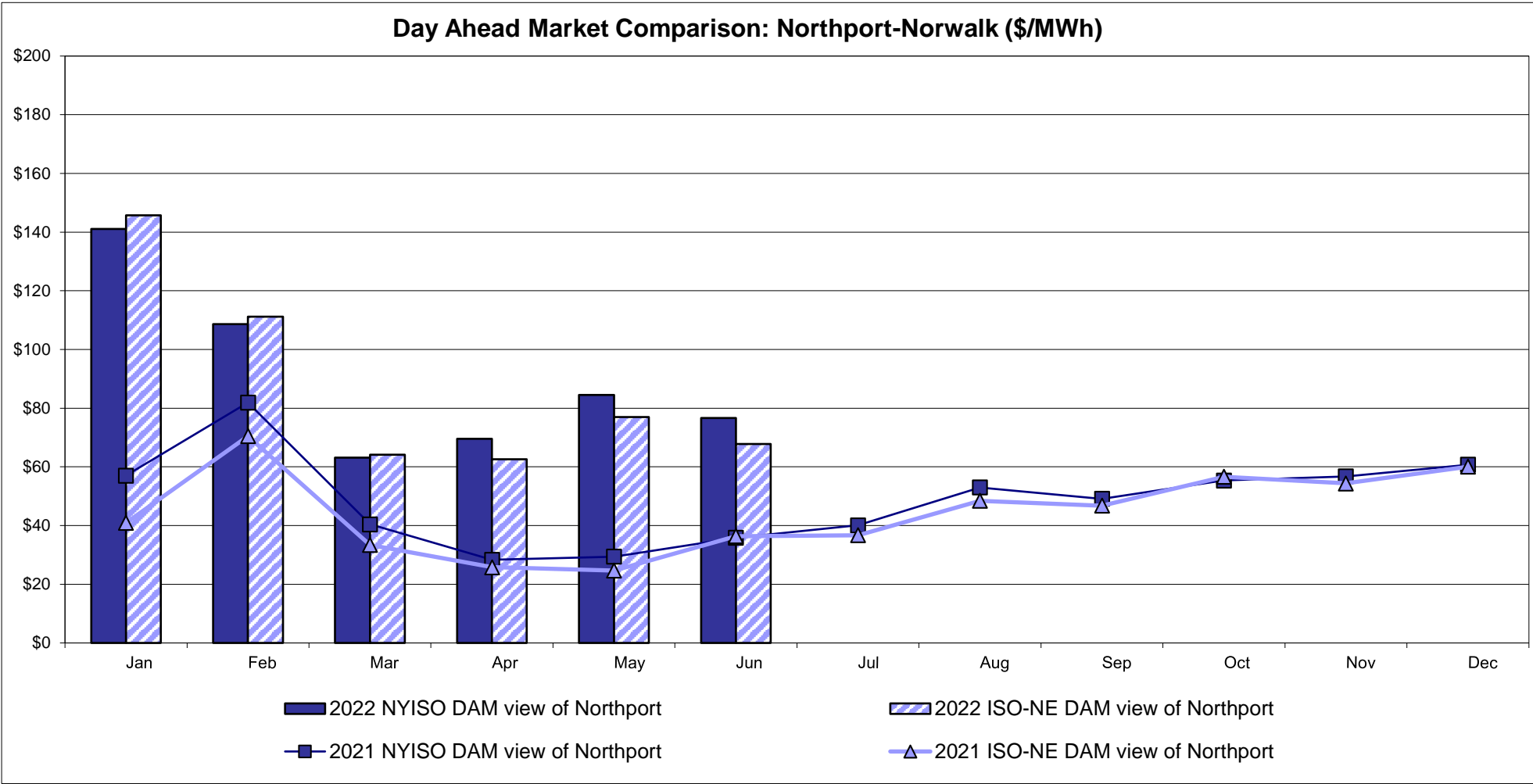
Notes: Exchange factor used for June 2022 was 0.781005935645111 to US  
HOEP: Hourly Ontario Energy Price  
Pre-Dispatch: Projected Energy Price

# External Controllable Line: Cross Sound Cable (New England)



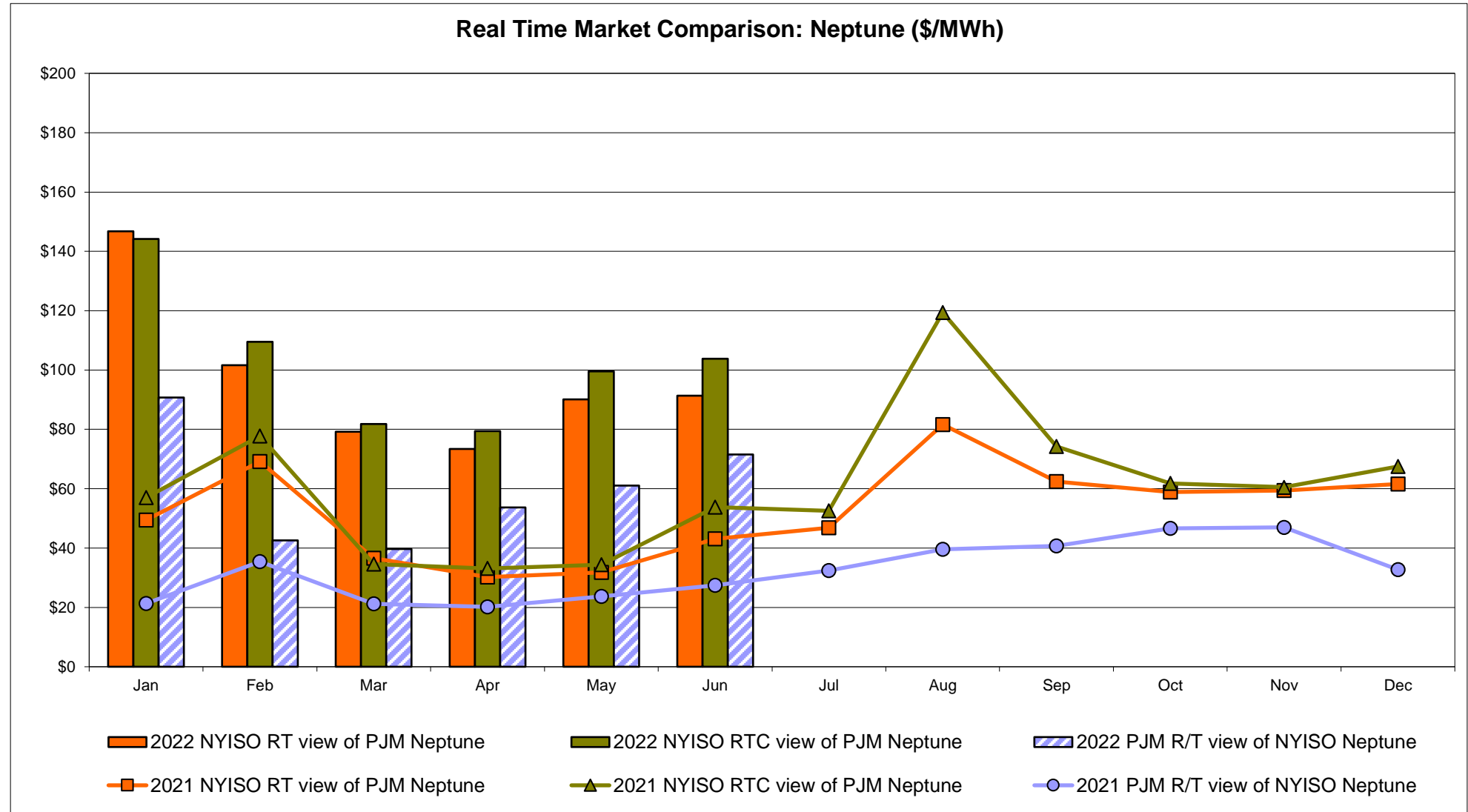
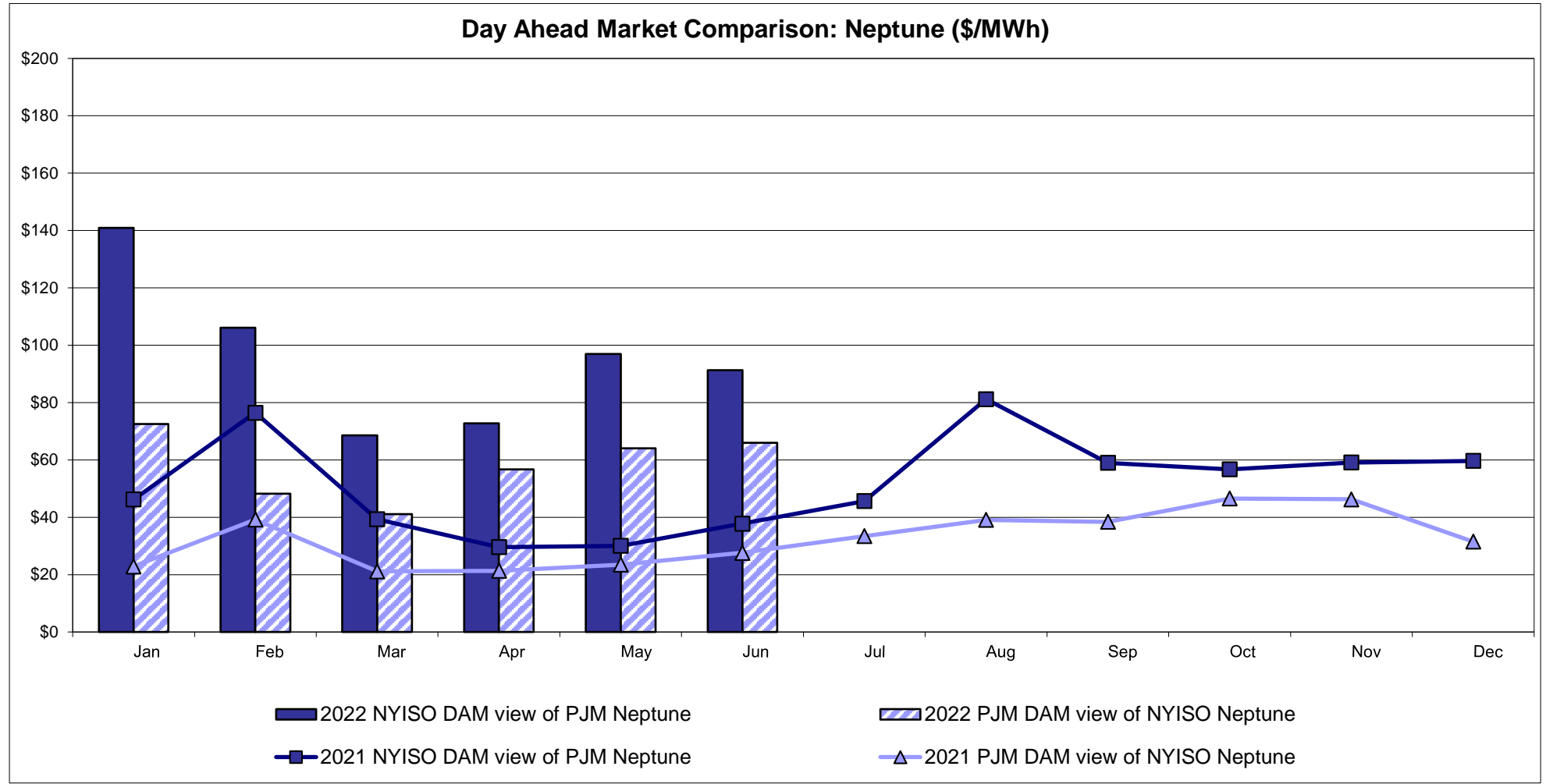
Note:  
 ISO-NE Forecast is an advisory posting @ 18:00 day before.  
 The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.  
 The DAM and R/T prices at the CSC interface are used for NYISO.

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



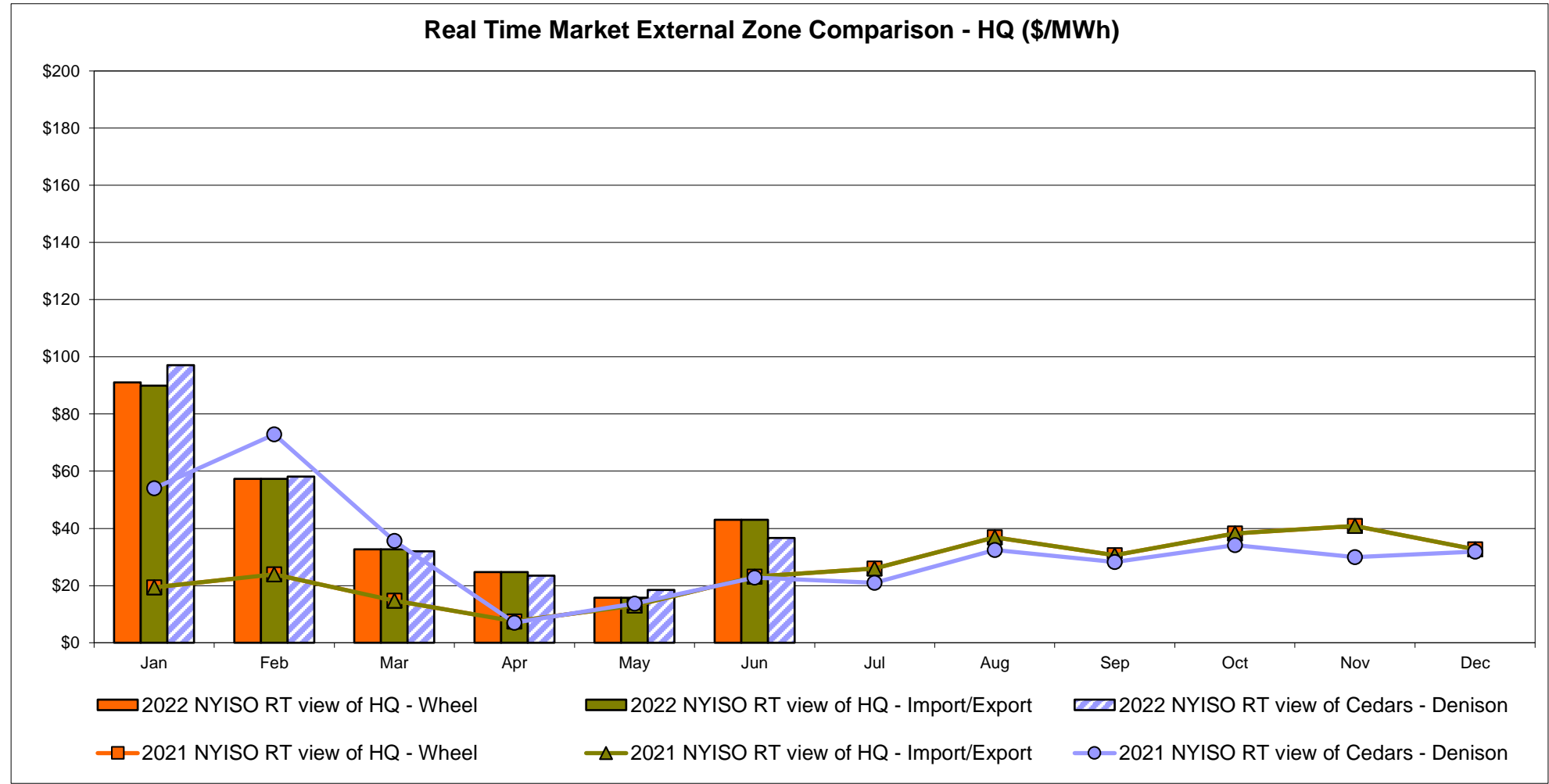
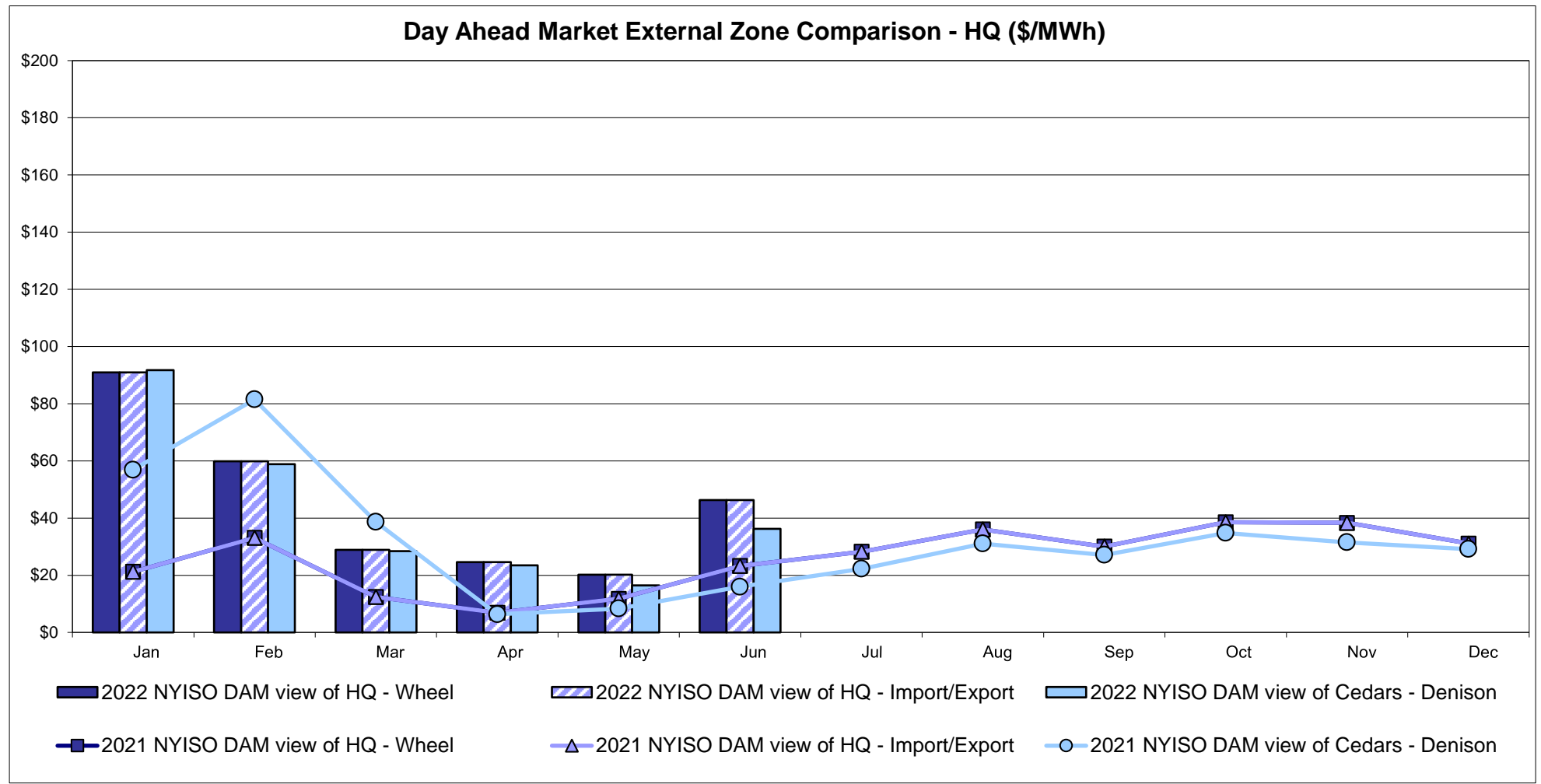
Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)



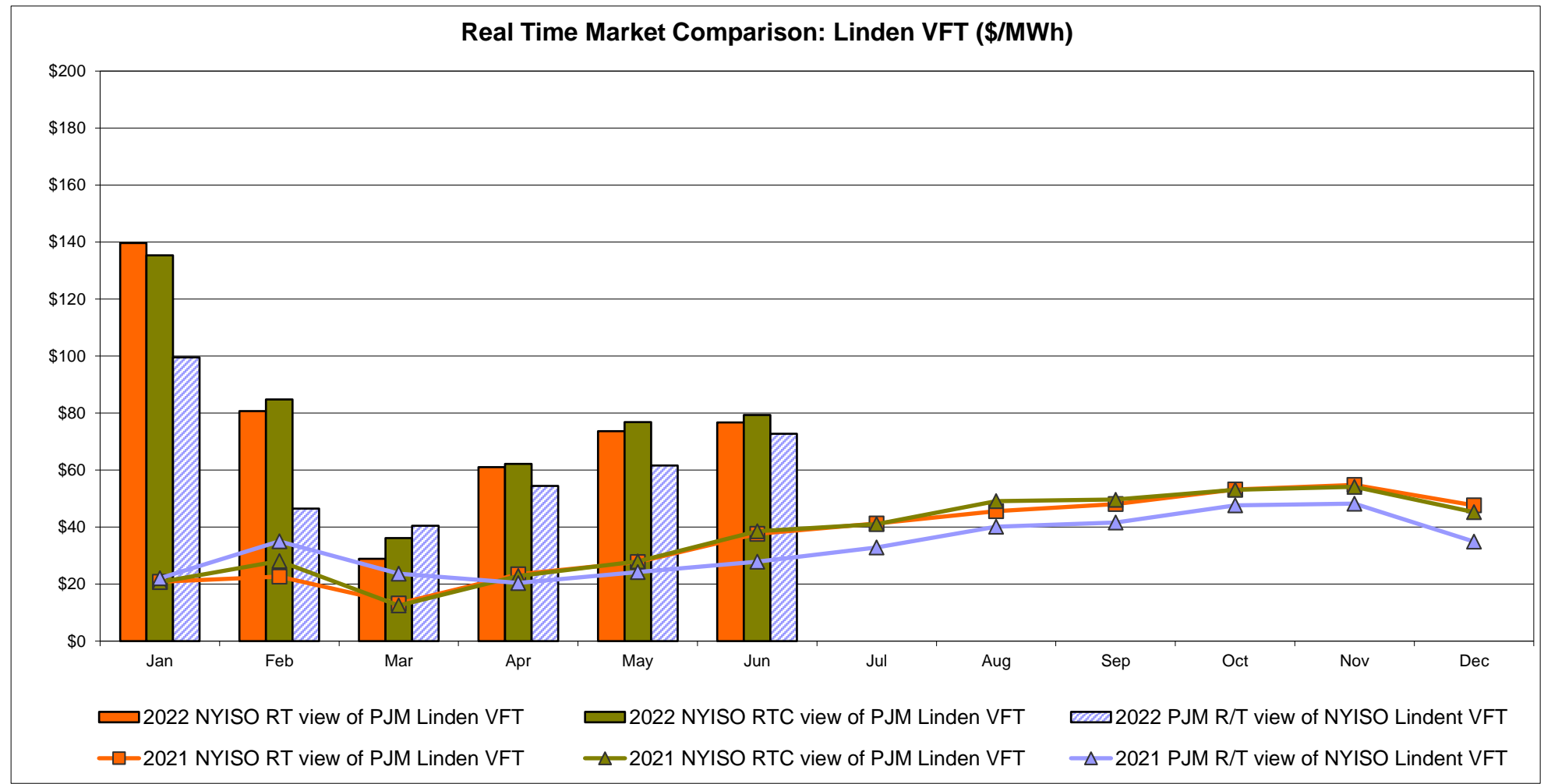
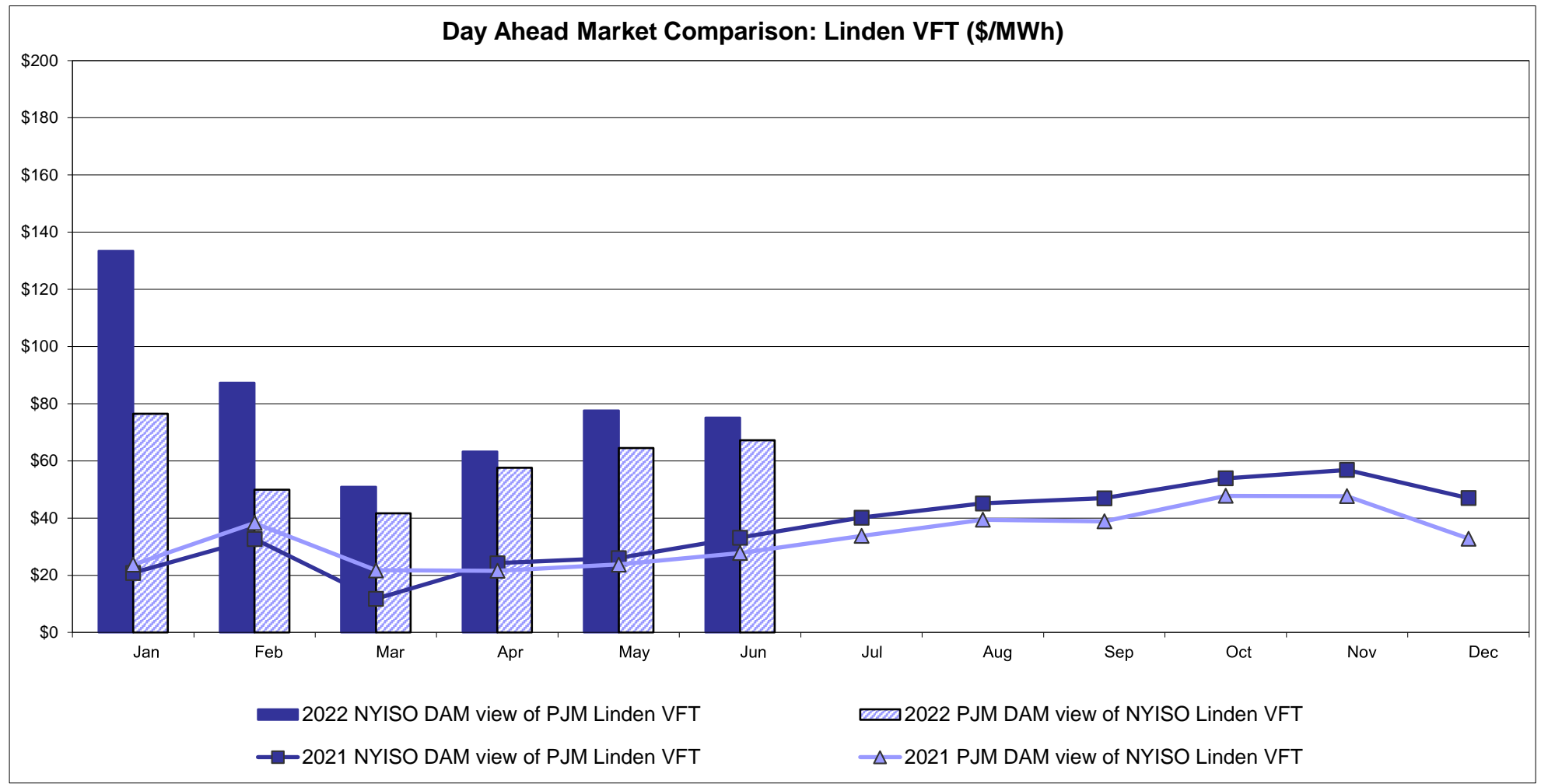


External Comparison Hydro-Quebec

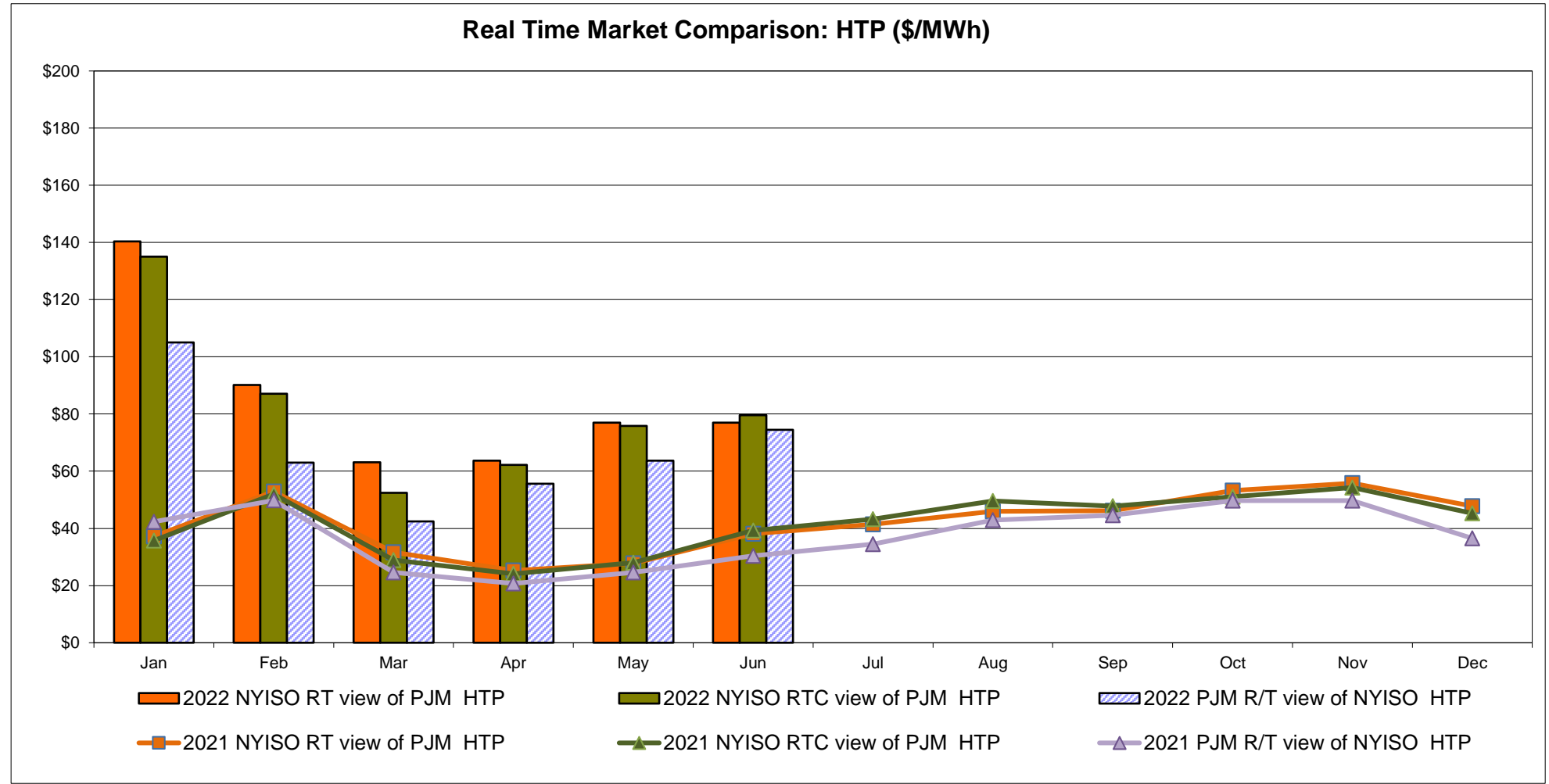
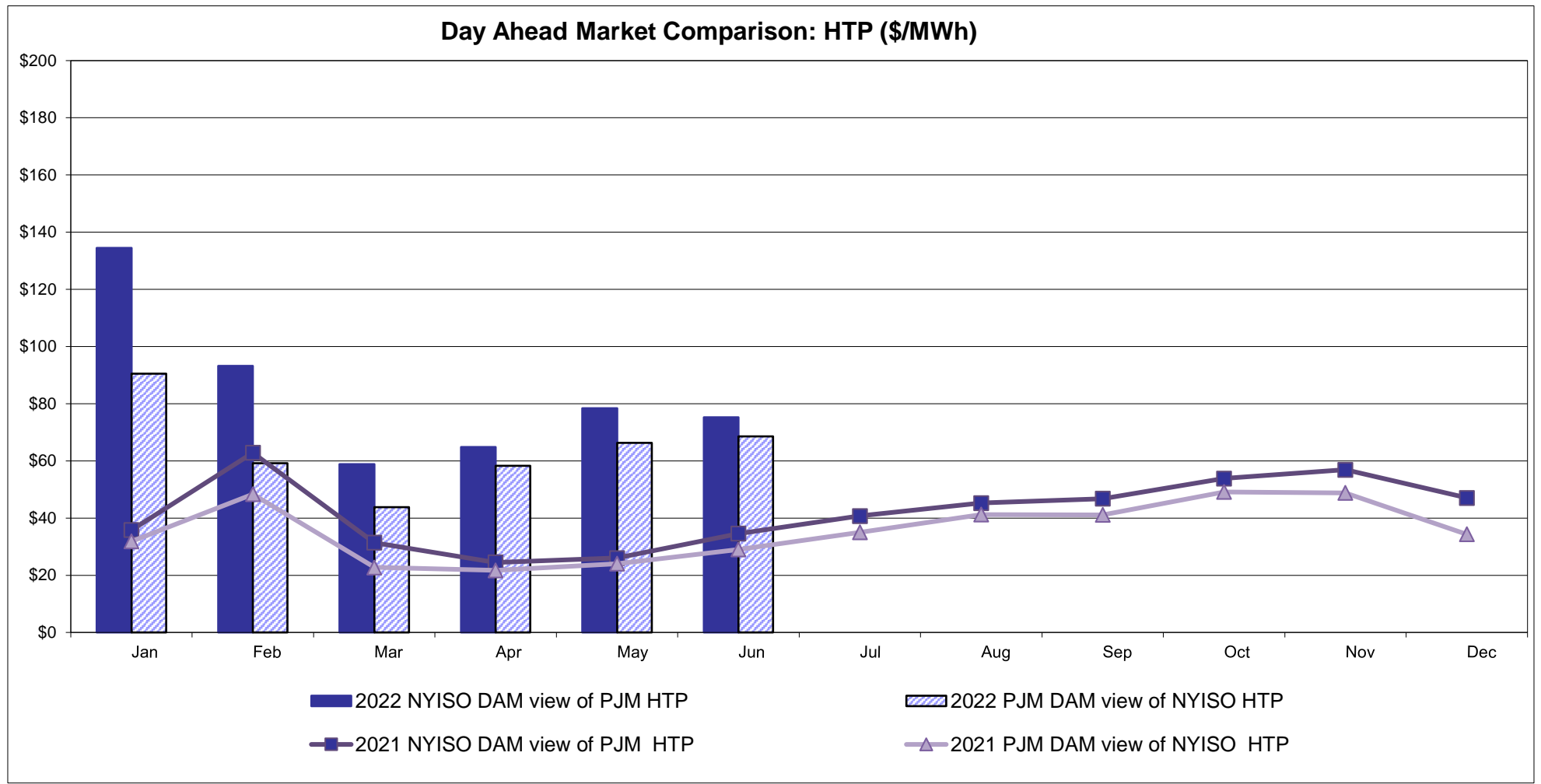


Note:  
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

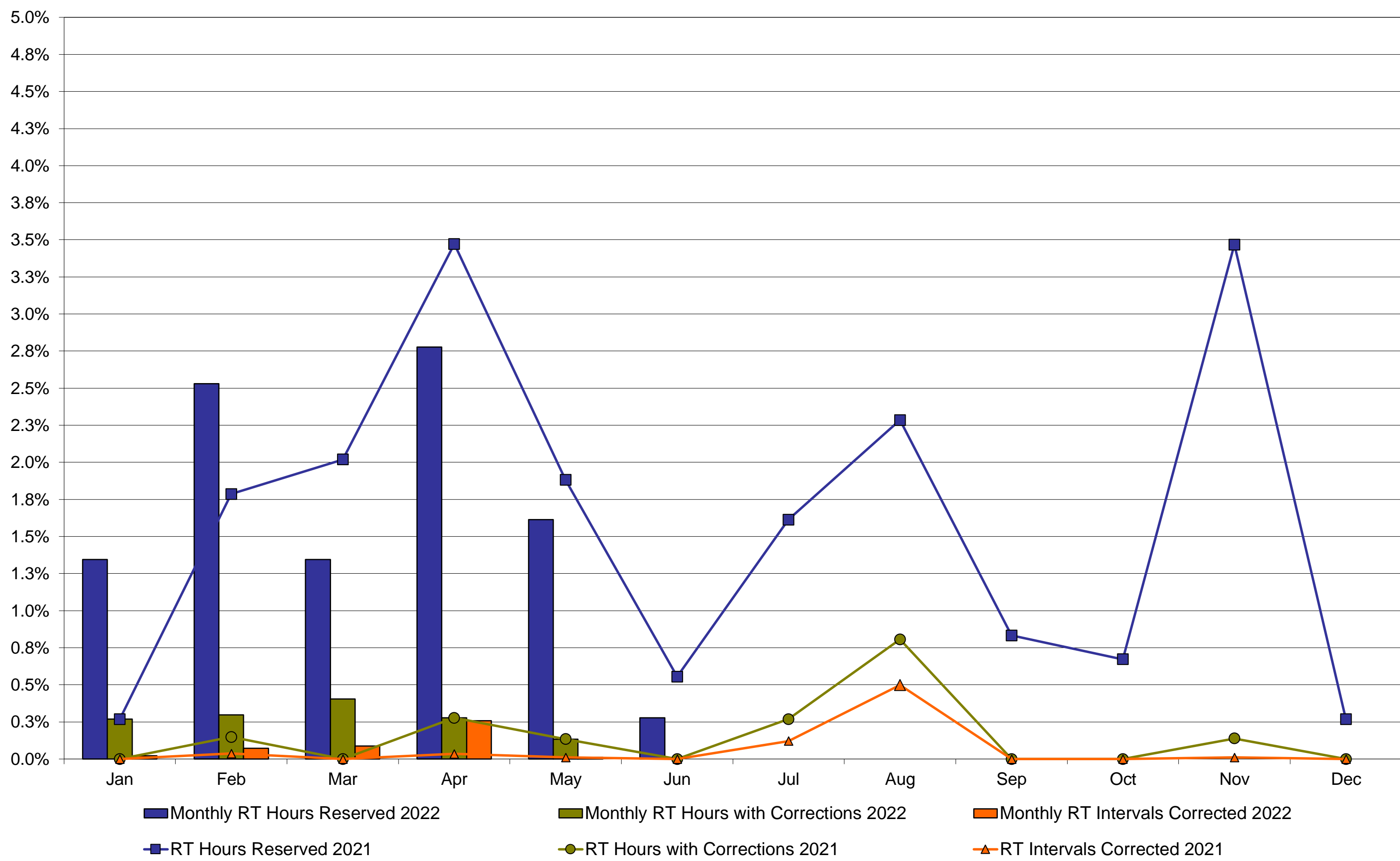


## NYISO Real Time Price Correction Statistics

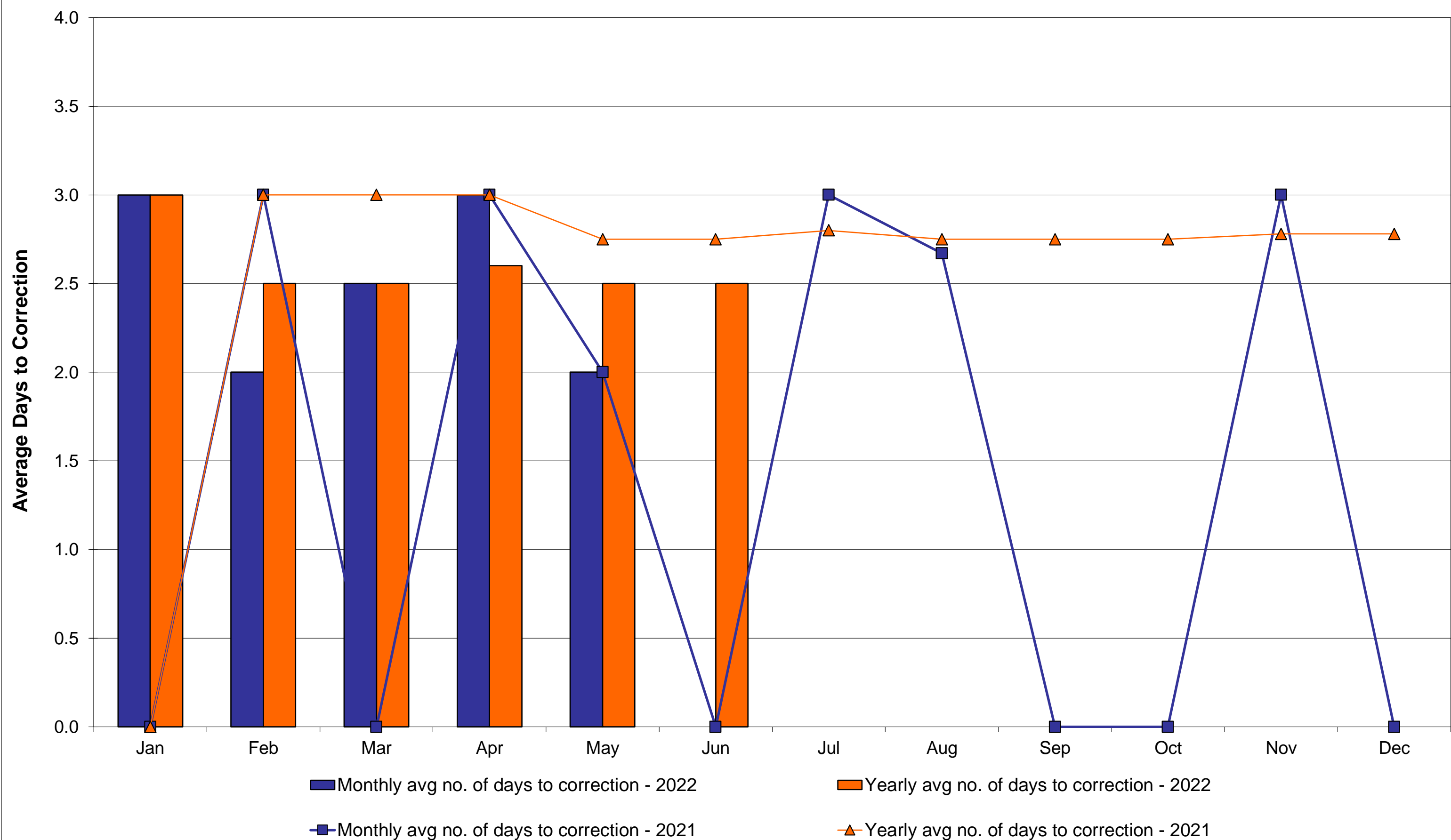
<b>2022</b>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b>Hour Corrections</b>													
Number of hours with corrections	in the month	2	2	3	2	1	0						
Number of hours	in the month	744	672	743	720	744	720						
% of hours with corrections	in the month	0.27%	0.30%	0.40%	0.28%	0.13%	0.00%						
% of hours with corrections	year-to-date	0.27%	0.28%	0.32%	0.31%	0.28%	0.23%						
<b>Interval Corrections</b>													
Number of intervals corrected	in the month	2	6	8	23	1	0						
Number of intervals	in the month	9,258	8,338	9,118	8,908	9,181	8,864						
% of intervals corrected	in the month	0.02%	0.07%	0.09%	0.26%	0.01%	0.00%						
% of intervals corrected	year-to-date	0.02%	0.05%	0.06%	0.11%	0.09%	0.07%						
<b>Hours Reserved</b>													
Number of hours reserved	in the month	10	17	10	20	12	2						
Number of hours	in the month	744	672	743	720	744	720						
% of hours reserved	in the month	1.34%	2.53%	1.35%	2.78%	1.61%	0.28%						
% of hours reserved	year-to-date	1.34%	1.91%	1.71%	1.98%	1.90%	1.63%						
<b>Days to Correction *</b>													
Avg. number of days to correction	in the month	3.00	2.00	2.50	3.00	2.00	0.00						
Avg. number of days to correction	year-to-date	3.00	2.50	2.50	2.60	2.50	2.50						
<b>Days Without Corrections</b>													
Days without corrections	in the month	30	27	29	29	30	30						
Days without corrections	year-to-date	30	57	86	115	145	175						
<b>2021</b>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b>Hour Corrections</b>													
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%
<b>Interval Corrections</b>													
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%
<b>Hours Reserved</b>													
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%
<b>Days to Correction *</b>													
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
<b>Days Without Corrections</b>													
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) \*



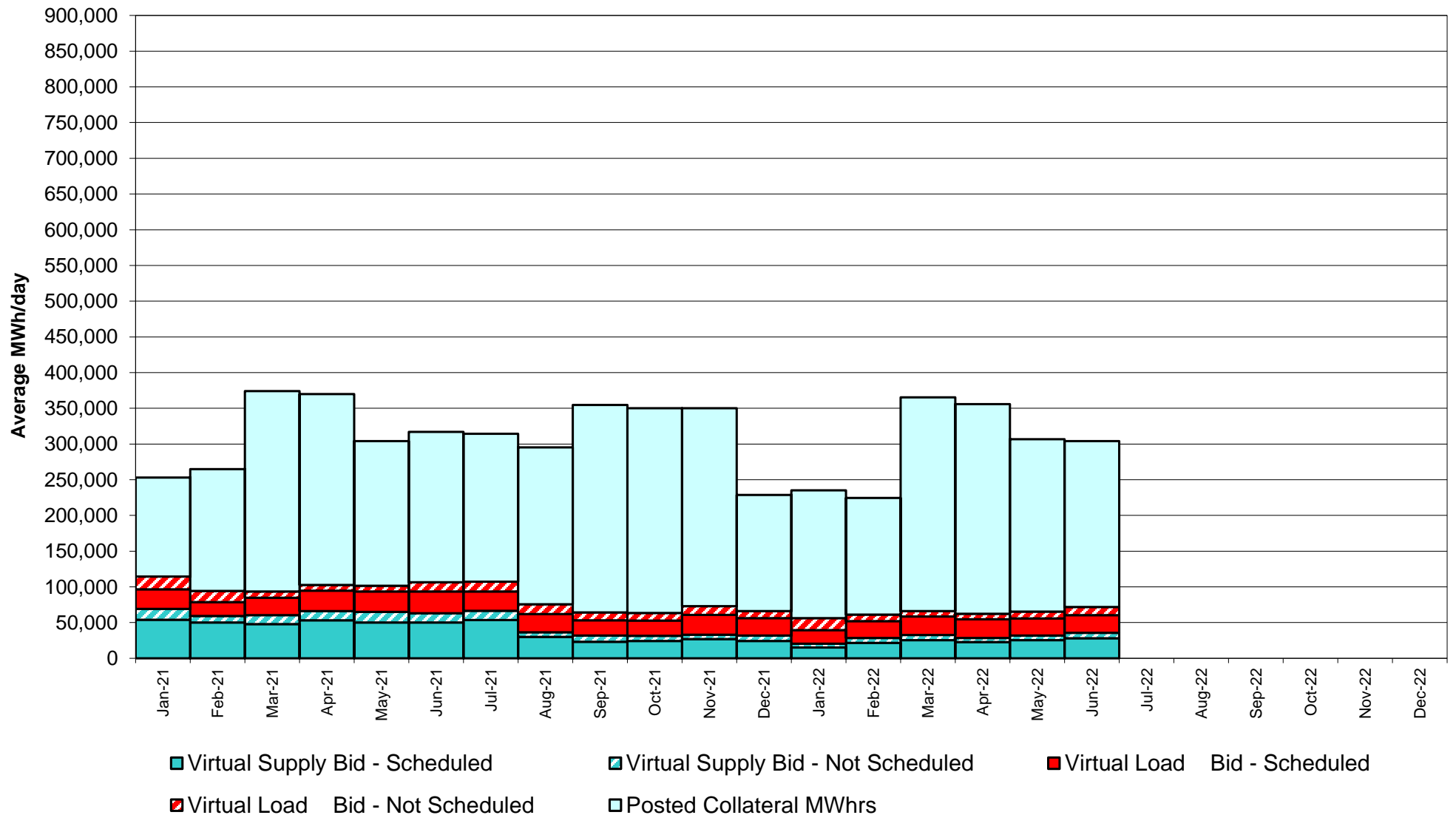
\*Calendar days from reservation date; for June 2018 forward, business days from market date

Market Mitigation and Analysis  
Prepared: 7/12/2022 2:05 PM

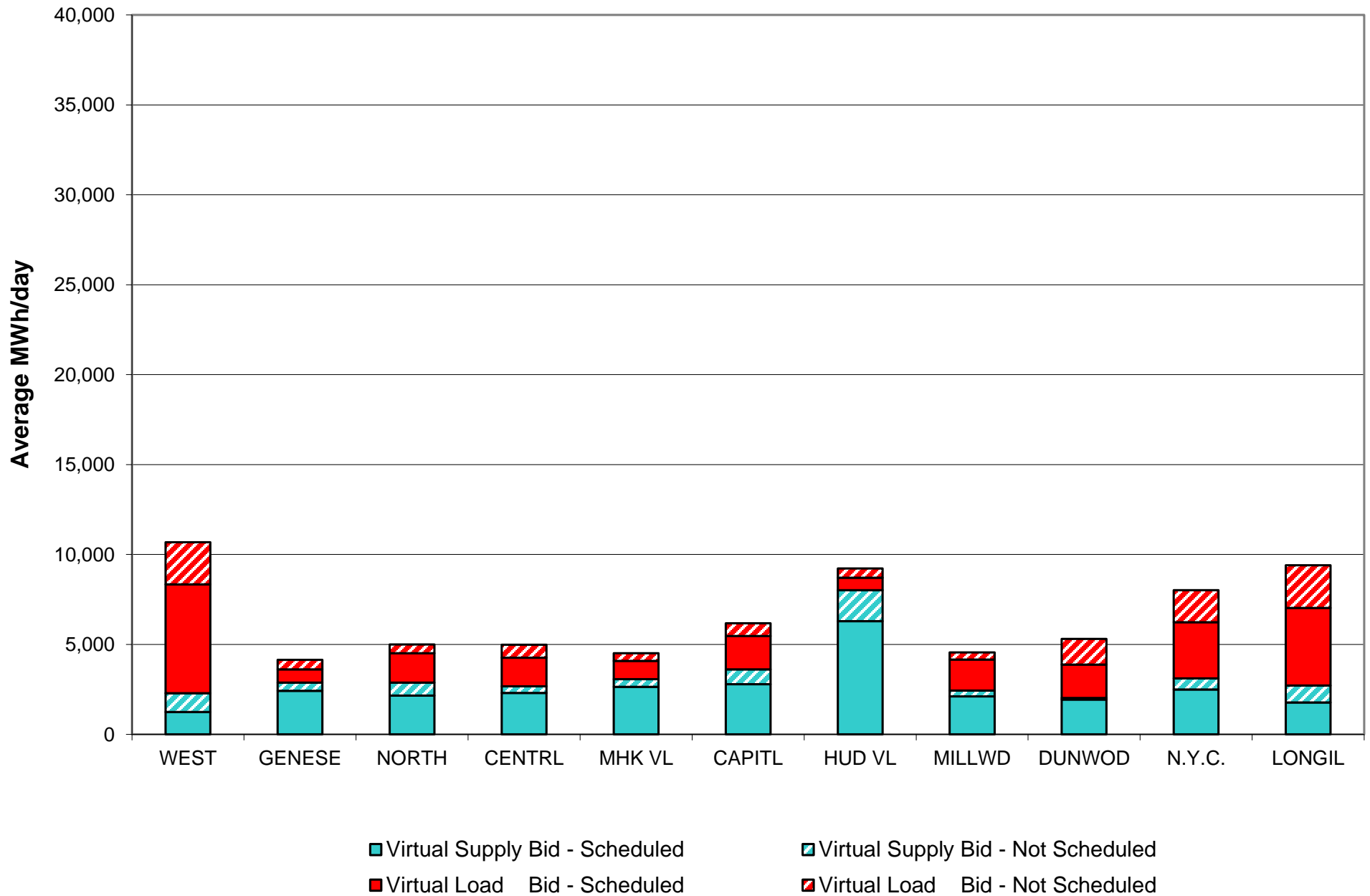
Y

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 June 30, 2022

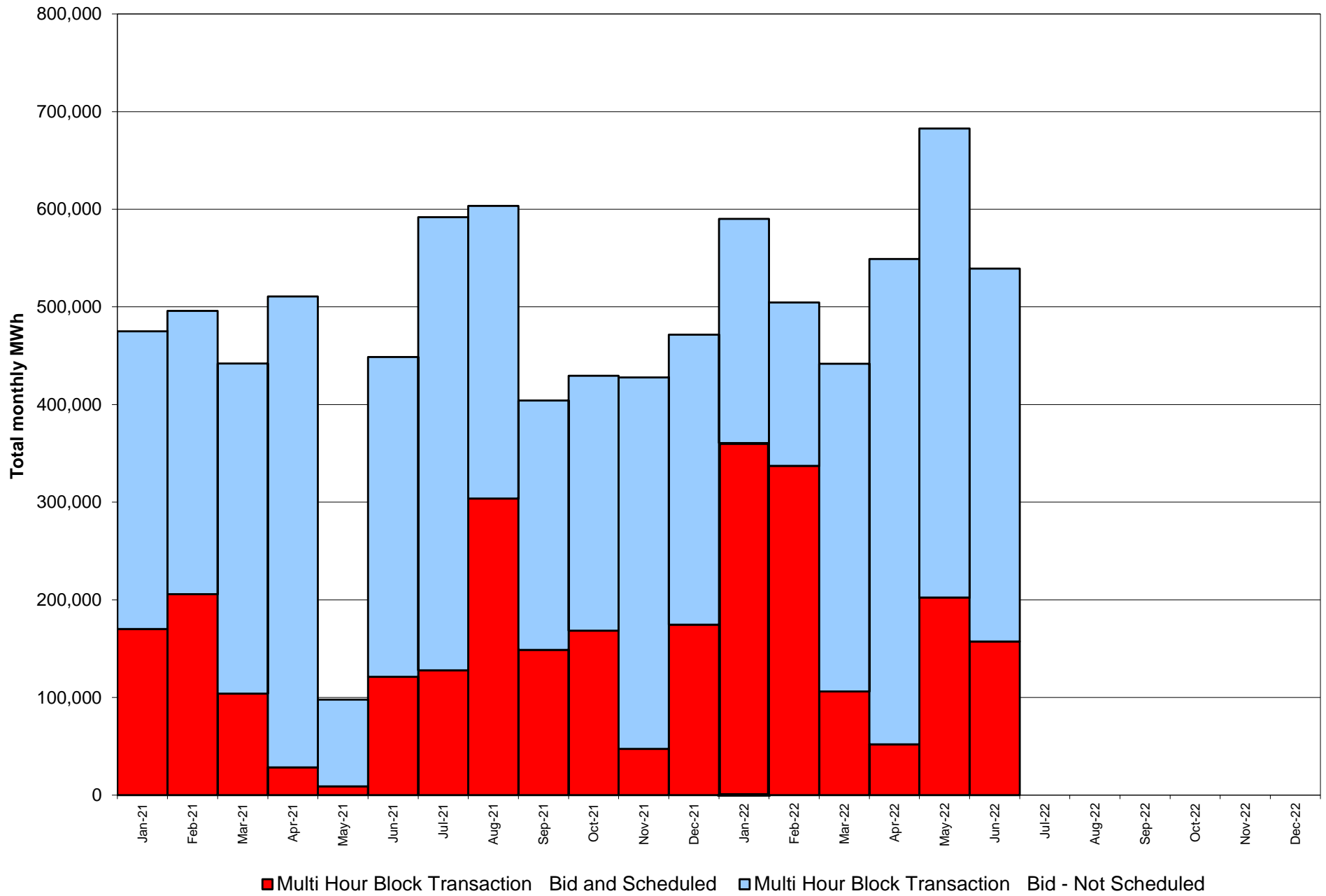


## Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2022

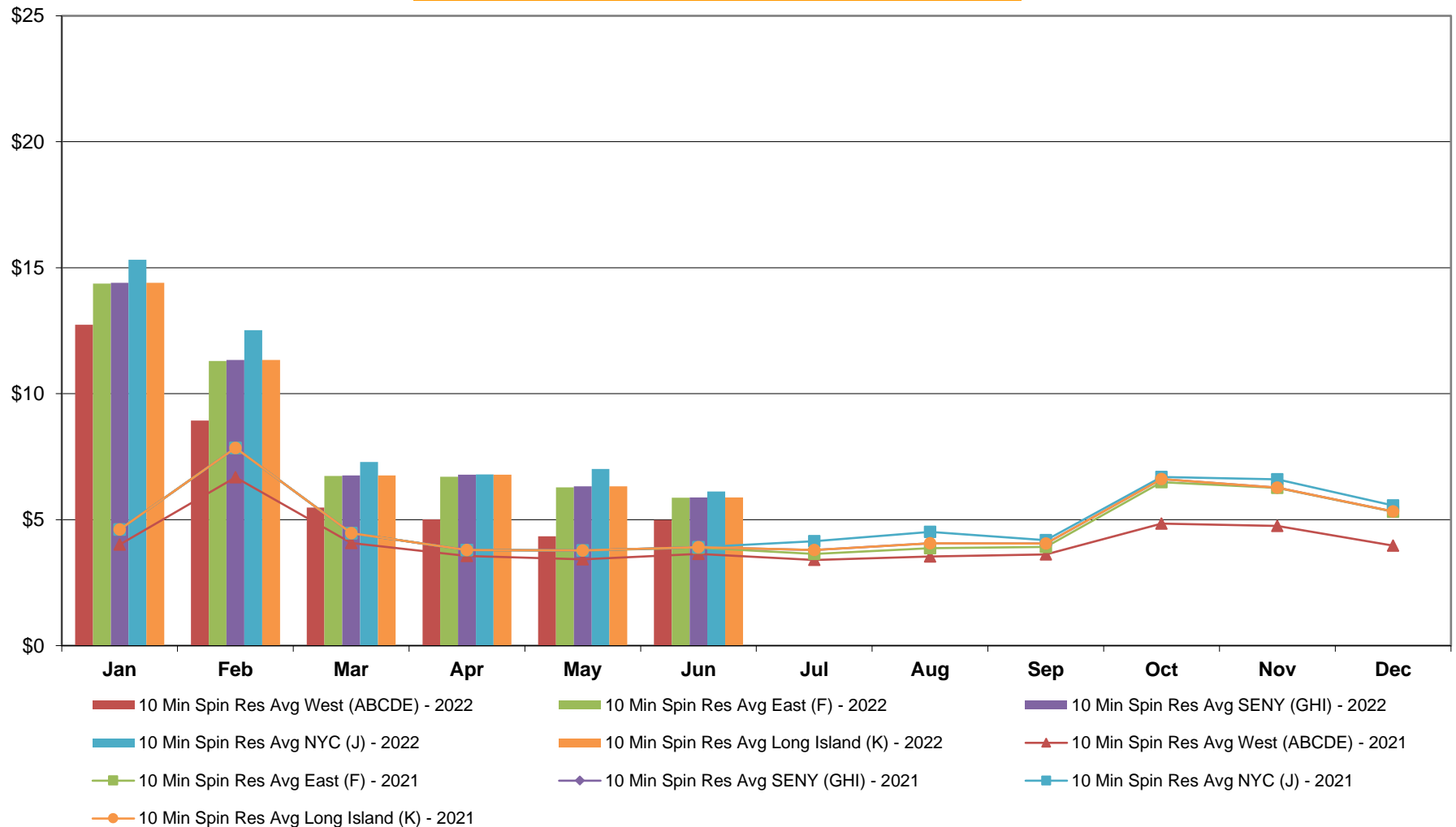
		Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
WEST	Jan-22	2,754	1,900	2,076	1,276	MHK VL	Jan-22	722	621	1,245	204	DUNWOD	Jan-22	1,376	1,851	652	54
	Feb-22	2,773	1,170	3,027	908		Feb-22	1,830	386	1,518	349		Feb-22	1,696	1,004	1,218	86
	Mar-22	3,702	830	2,480	526		Mar-22	2,263	131	1,506	371		Mar-22	1,427	954	1,944	68
	Apr-22	3,967	1,016	2,214	402		Apr-22	1,848	208	1,483	379		Apr-22	2,229	1,069	1,219	46
	May-22	5,740	1,247	1,473	670		May-22	1,108	254	2,338	538		May-22	1,752	1,335	1,505	58
	Jun-22	6,049	2,343	1,239	1,048		Jun-22	1,021	423	2,636	425		Jun-22	1,859	1,430	1,940	77
	Jul-22						Jul-22						Jul-22				
	Aug-22						Aug-22						Aug-22				
	Sep-22						Sep-22						Sep-22				
	Oct-22						Oct-22						Oct-22				
	Nov-22						Nov-22						Nov-22				
	Dec-22						Dec-22						Dec-22				
GENESE	Jan-22	722	464	1,058	319	CAPITL	Jan-22	2,536	2,157	749	695	N.Y.C.	Jan-22	2,341	3,279	1,155	349
	Feb-22	853	293	1,560	395		Feb-22	3,700	1,211	1,075	785		Feb-22	2,889	1,668	1,938	607
	Mar-22	1,615	190	1,176	265		Mar-22	2,660	1,045	1,450	879		Mar-22	1,769	1,526	2,728	629
	Apr-22	1,226	244	1,415	354		Apr-22	1,761	610	2,274	843		Apr-22	1,341	1,172	2,530	492
	May-22	994	302	2,104	636		May-22	2,118	868	2,609	669		May-22	2,215	1,517	2,425	405
	Jun-22	728	542	2,426	453		Jun-22	1,856	697	2,784	832		Jun-22	3,113	1,786	2,501	613
	Jul-22						Jul-22						Jul-22				
	Aug-22						Aug-22						Aug-22				
	Sep-22						Sep-22						Sep-22				
	Oct-22						Oct-22						Oct-22				
	Nov-22						Nov-22						Nov-22				
	Dec-22						Dec-22						Dec-22				
NORTH	Jan-22	938	469	1,778	643	HUD VL	Jan-22	1,062	1,130	3,738	1,083	LONGIL	Jan-22	4,217	2,685	601	241
	Feb-22	1,019	231	1,899	887		Feb-22	1,288	390	5,143	1,806		Feb-22	4,110	1,658	1,021	355
	Mar-22	1,192	148	2,020	699		Mar-22	960	308	7,017	2,760		Mar-22	5,091	1,935	1,581	408
	Apr-22	1,046	165	2,180	885		Apr-22	1,400	172	5,721	1,227		Apr-22	4,736	2,343	918	469
	May-22	1,501	233	1,889	1,039		May-22	1,035	300	5,637	889		May-22	3,361	2,766	2,045	554
	Jun-22	1,641	492	2,160	710		Jun-22	697	518	6,290	1,725		Jun-22	4,316	2,375	1,773	941
	Jul-22						Jul-22						Jul-22				
	Aug-22						Aug-22						Aug-22				
	Sep-22						Sep-22						Sep-22				
	Oct-22						Oct-22						Oct-22				
	Nov-22						Nov-22						Nov-22				
	Dec-22						Dec-22						Dec-22				
CENTRL	Jan-22	1,317	1,284	1,104	364	MILLWD	Jan-22	1,104	654	867	262	NYISO	Jan-22	19,089	16,494	15,023	5,489
	Feb-22	1,665	499	1,780	409		Feb-22	1,805	462	1,367	312		Feb-22	23,629	8,972	21,545	6,898
	Mar-22	3,731	251	1,490	338		Mar-22	1,413	234	2,038	338		Mar-22	25,823	7,554	25,430	7,281
	Apr-22	4,837	390	1,415	307		Apr-22	2,136	172	1,257	309		Apr-22	26,526	7,560	22,626	5,713
	May-22	2,265	267	1,845	543		May-22	2,011	277	1,628	269		May-22	24,099	9,366	25,500	6,269
	Jun-22	1,597	718	2,303	368		Jun-22	1,725	393	2,111	320		Jun-22	24,602	11,717	28,164	7,511
	Jul-22						Jul-22						Jul-22				
	Aug-22						Aug-22						Aug-22				
	Sep-22						Sep-22						Sep-22				
	Oct-22						Oct-22						Oct-22				
	Nov-22						Nov-22						Nov-22				
	Dec-22						Dec-22						Dec-22				



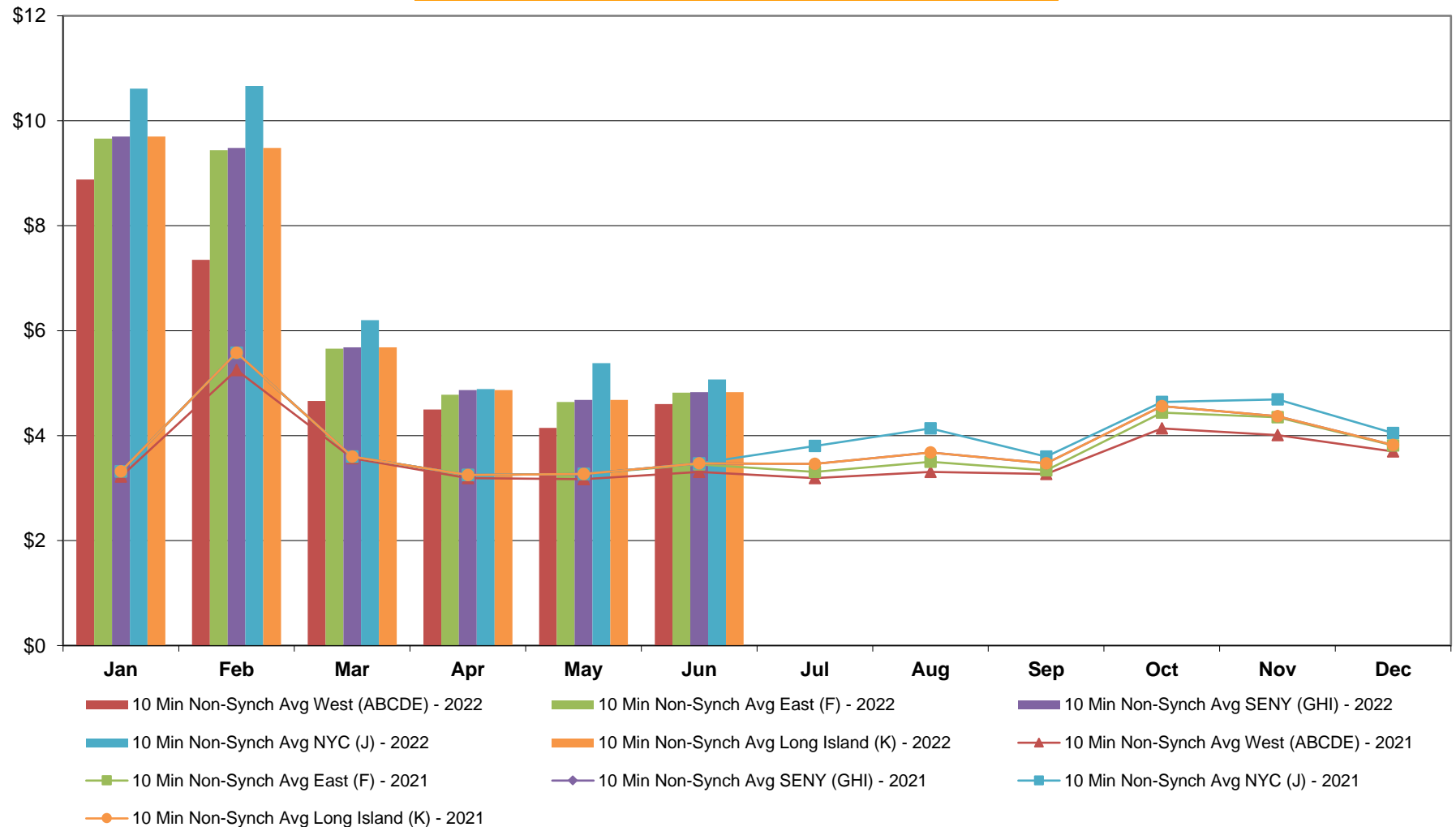
# **NYISO Multi Hour Block Transactions Monthly Total MWh**



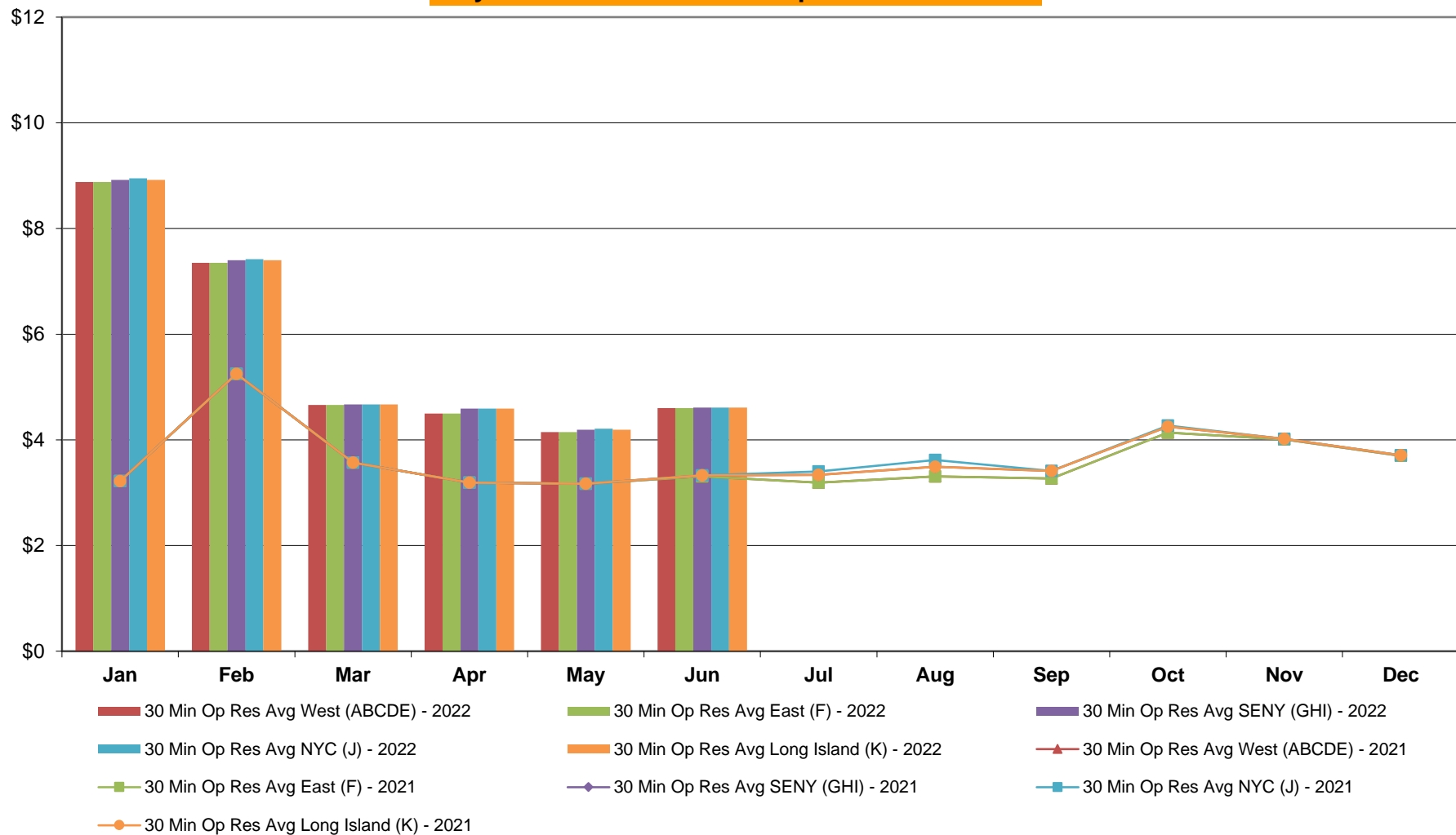
# **NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 10 Min Spin 2021 - 2022**



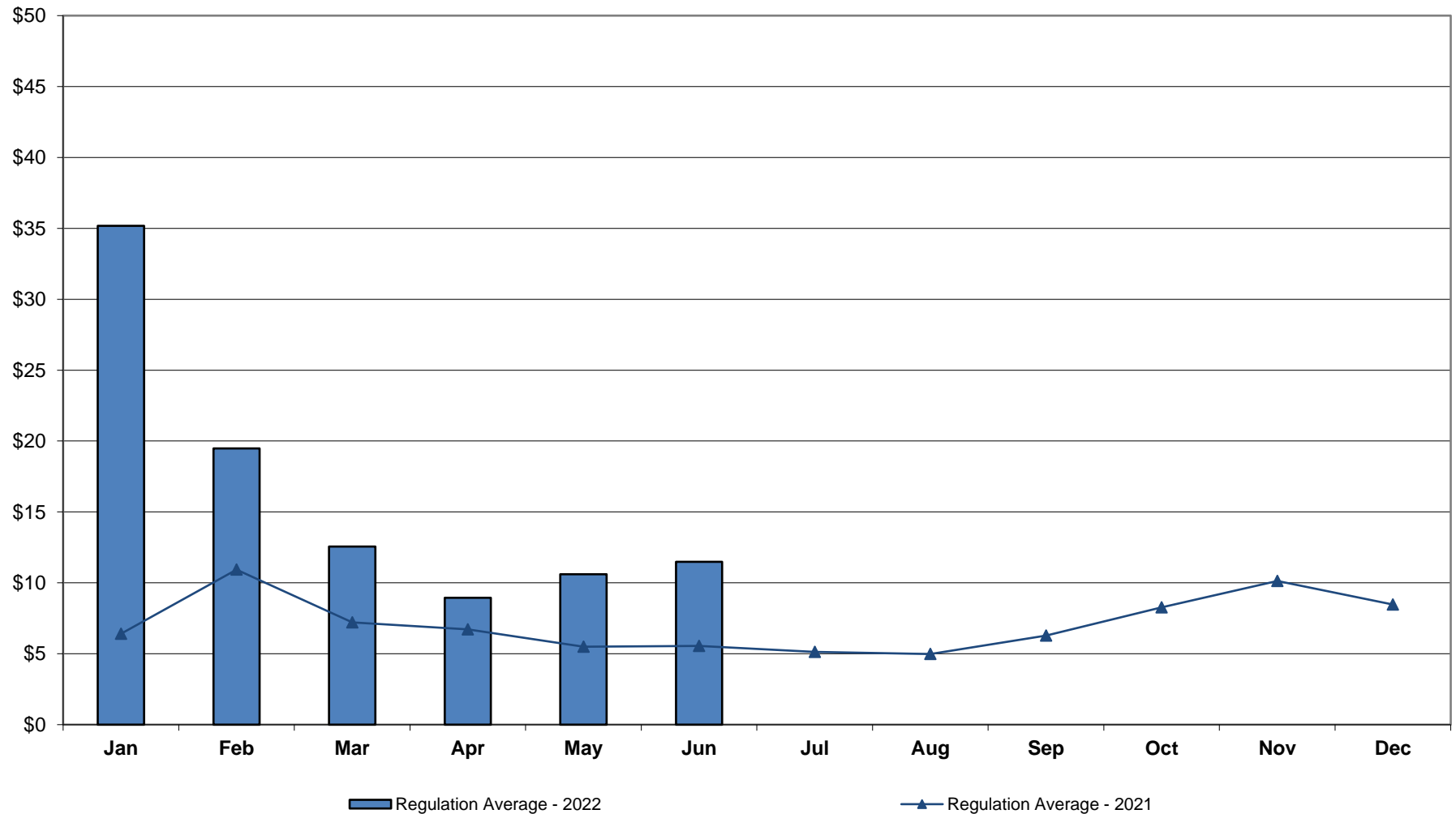
# **NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 10 Min Non-Synch 2021 - 2022**



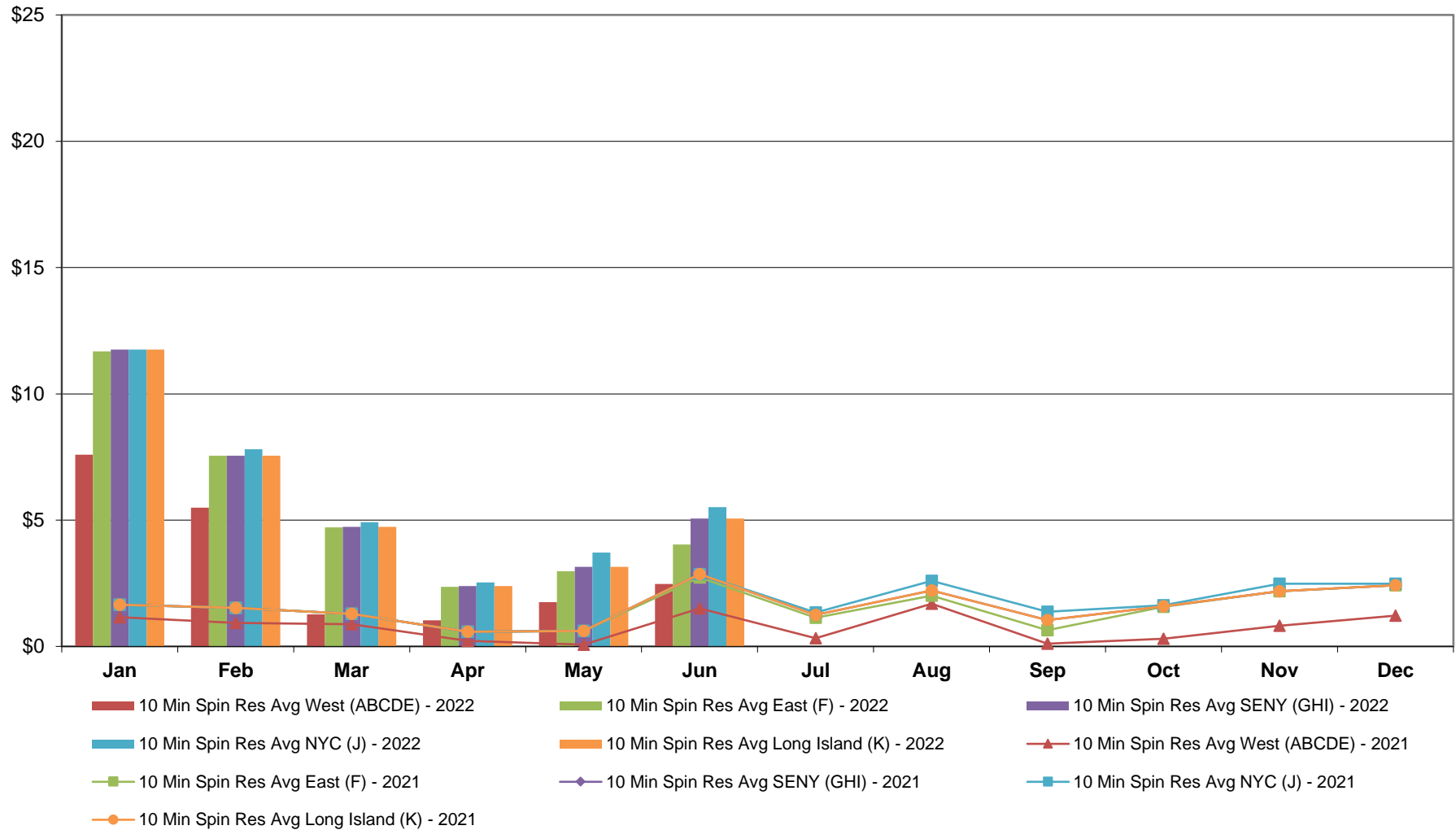
# **NYISO Monthly Average Ancillary Service Prices Day Ahead Market - 30 Min Op Res 2021 - 2022**



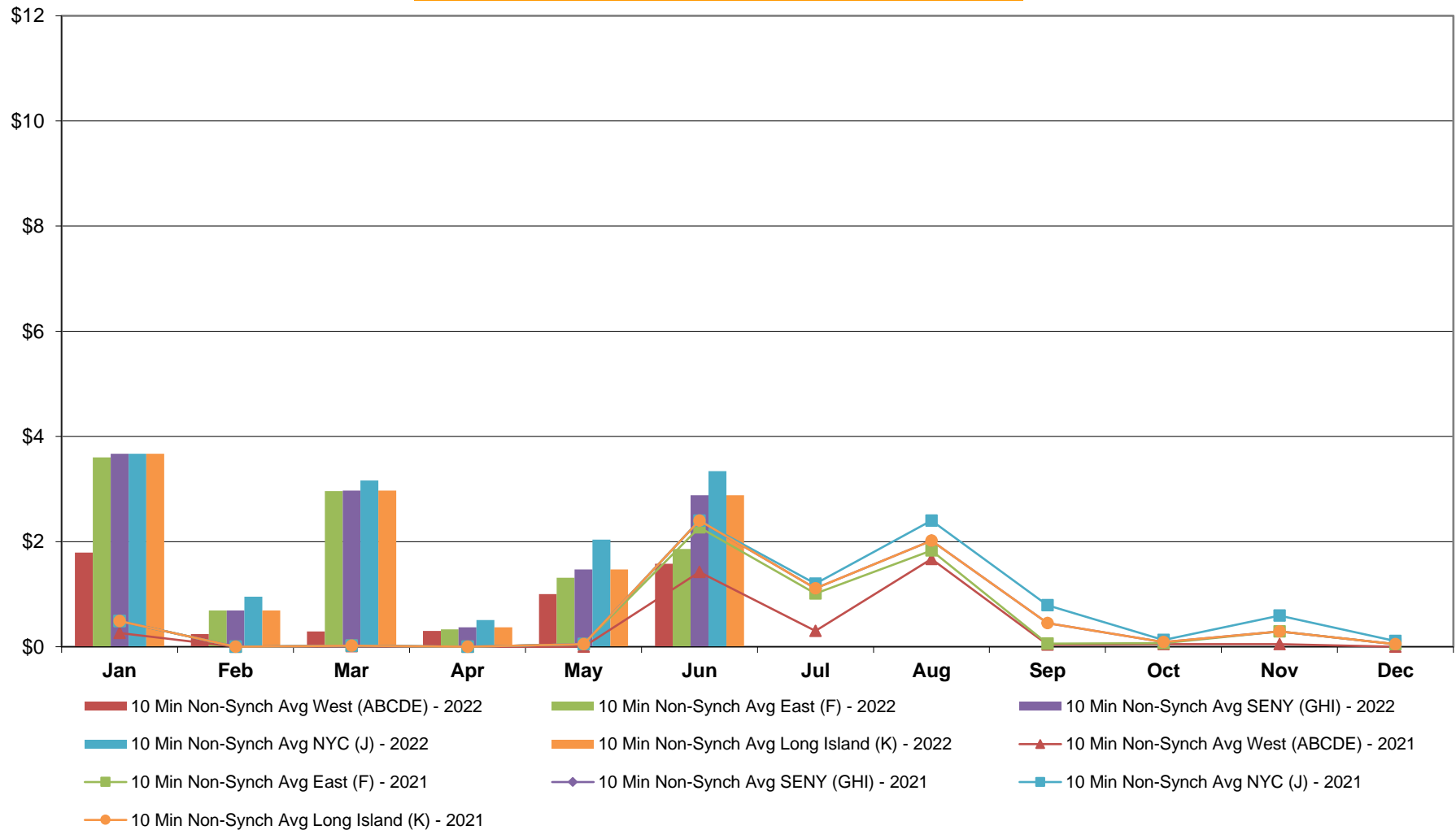
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - Regulation 2021 - 2022**



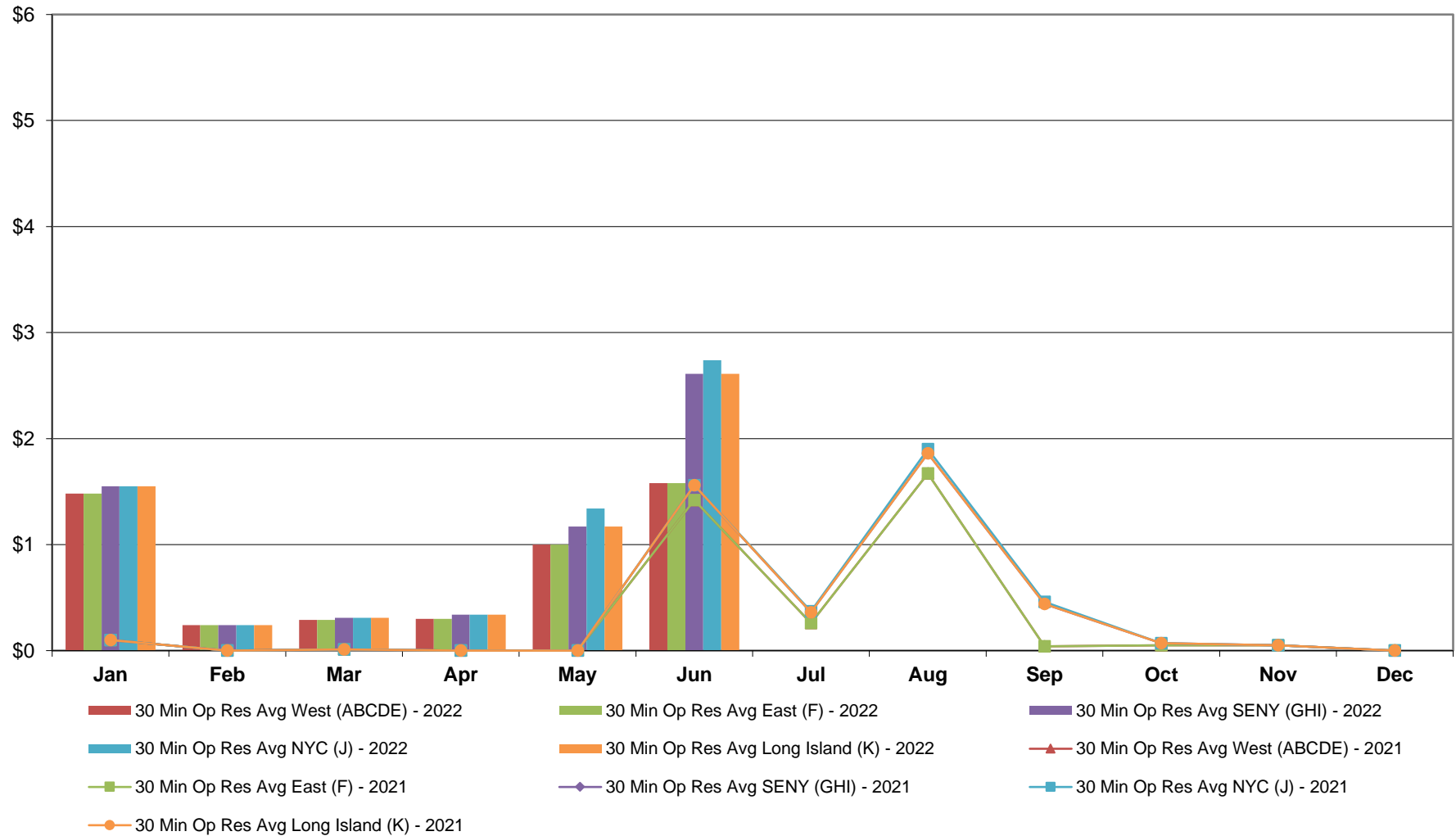
# **NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Spin 2021 - 2022**



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

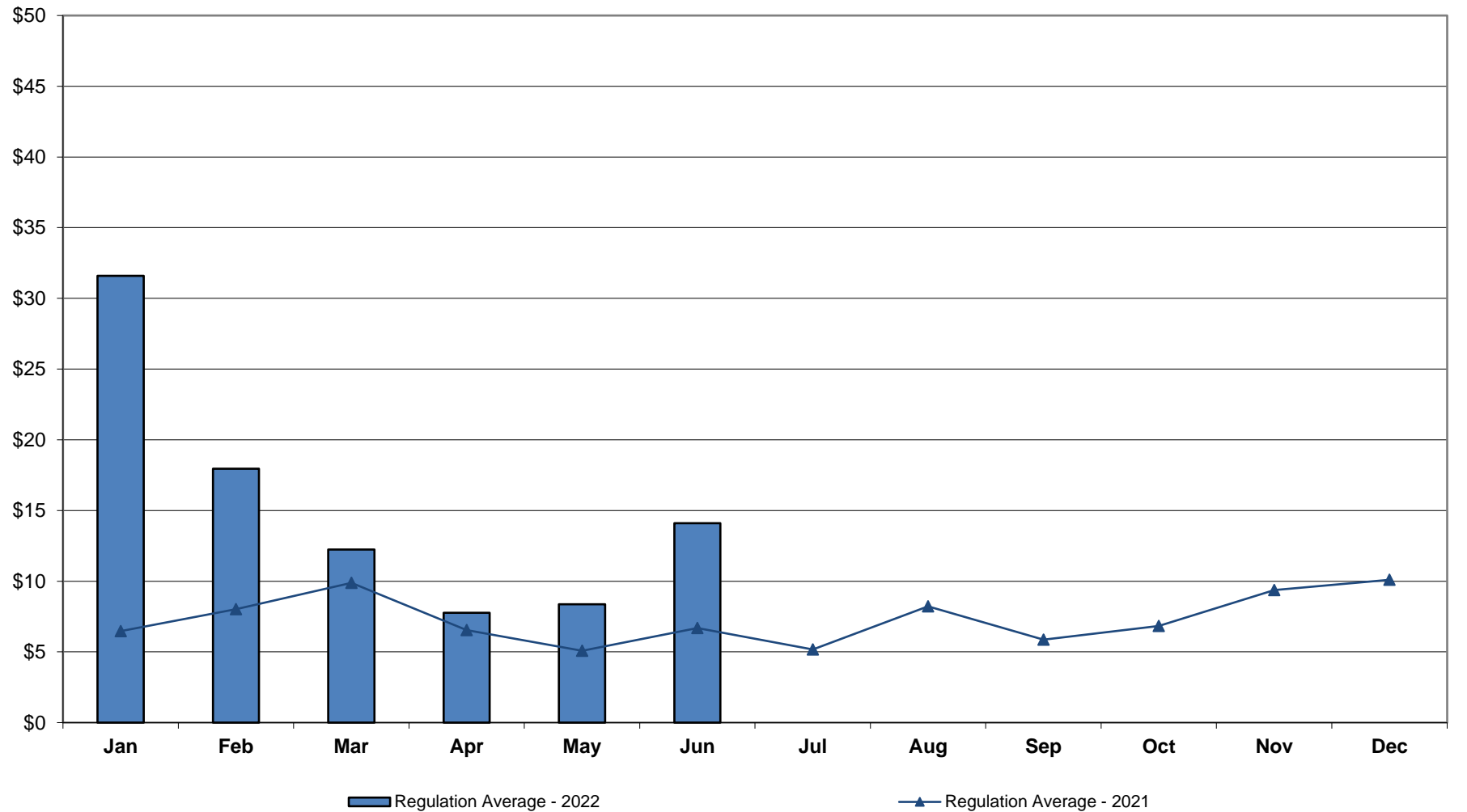


# **NYISO Monthly Average Ancillary Service Prices RTC Market - 30 Min Op Res 2021 - 2022**

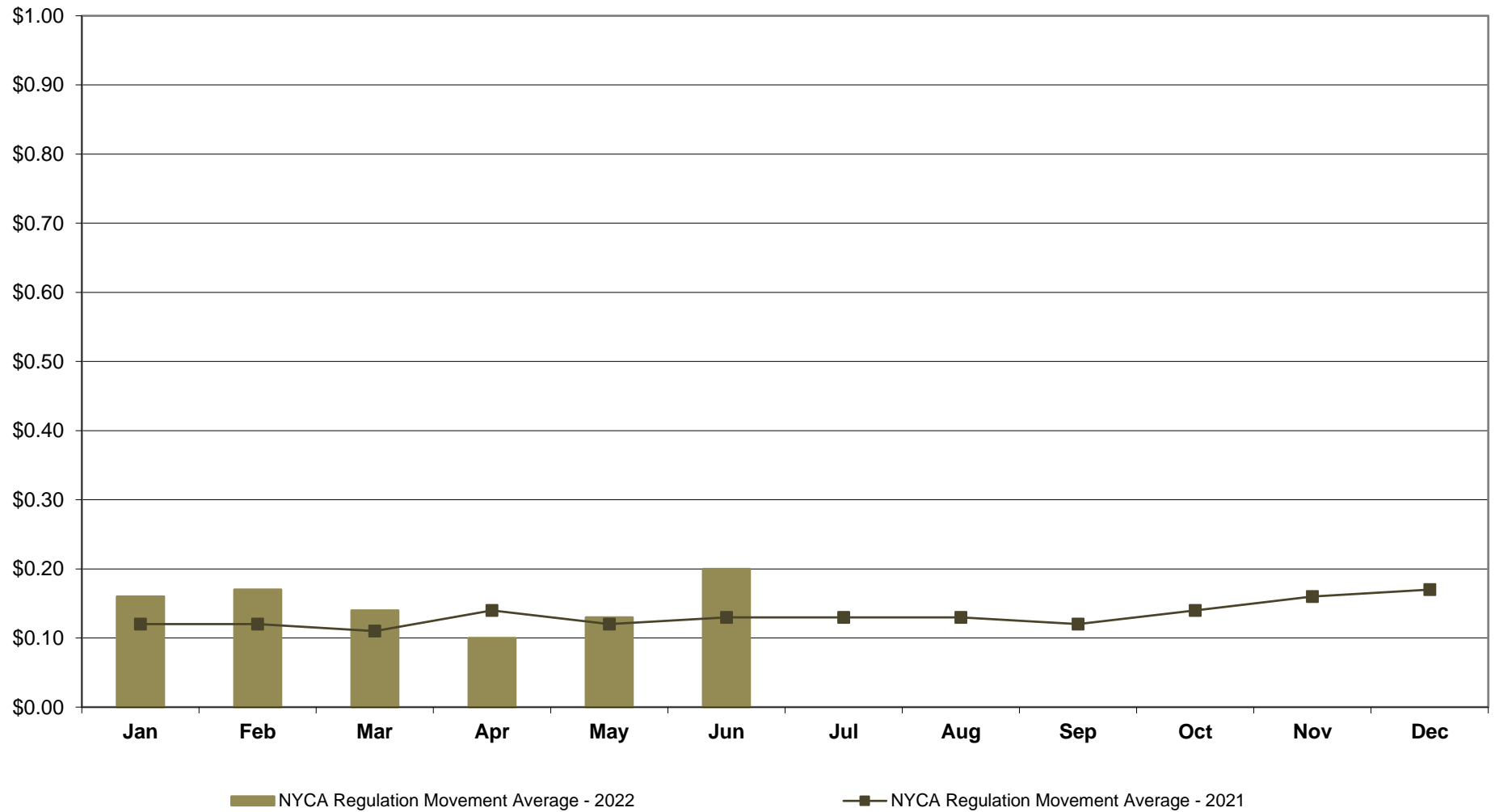




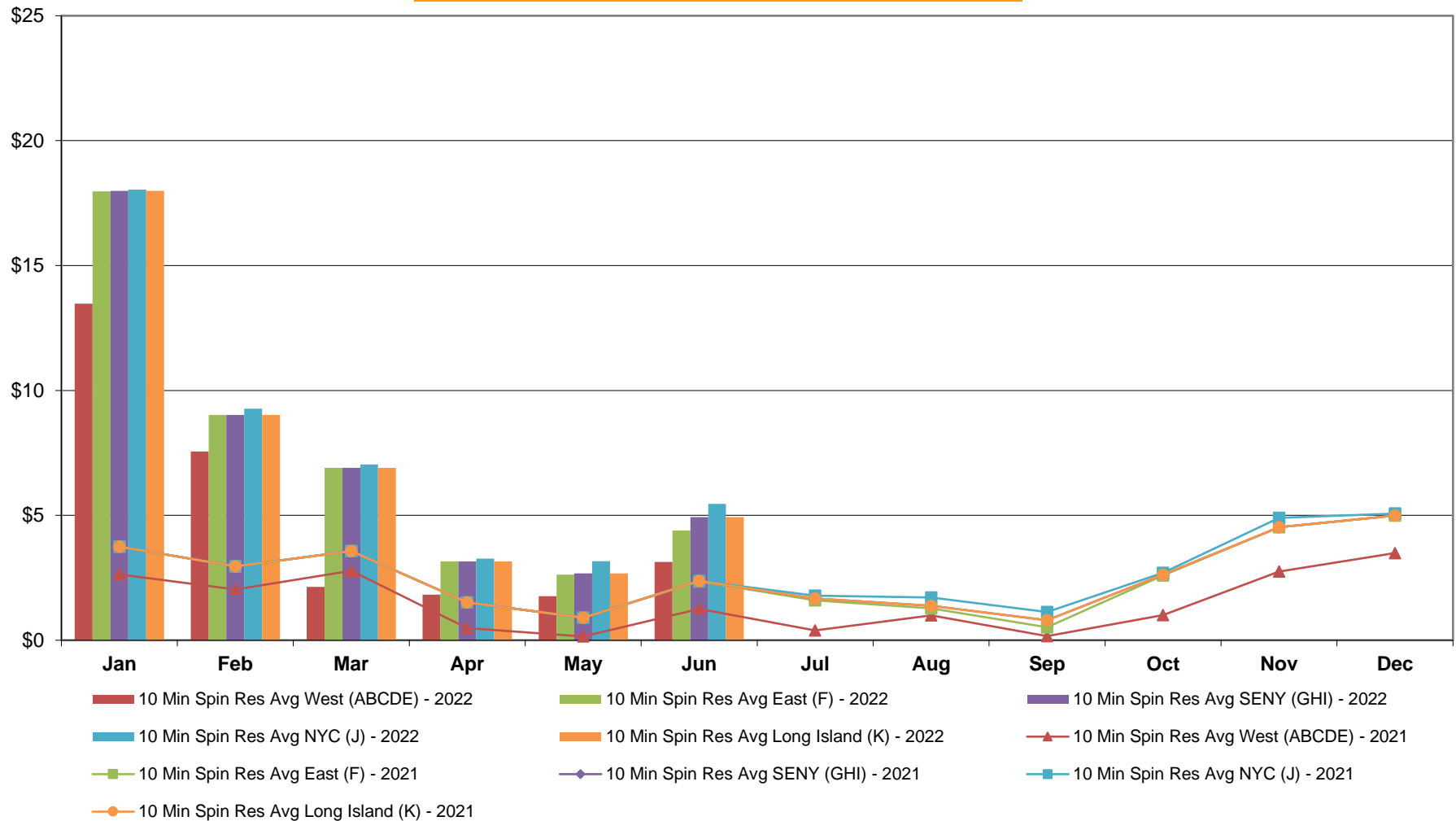
**NYISO Monthly Average Ancillary Service Prices  
RTC Market - Regulation 2021 - 2022**



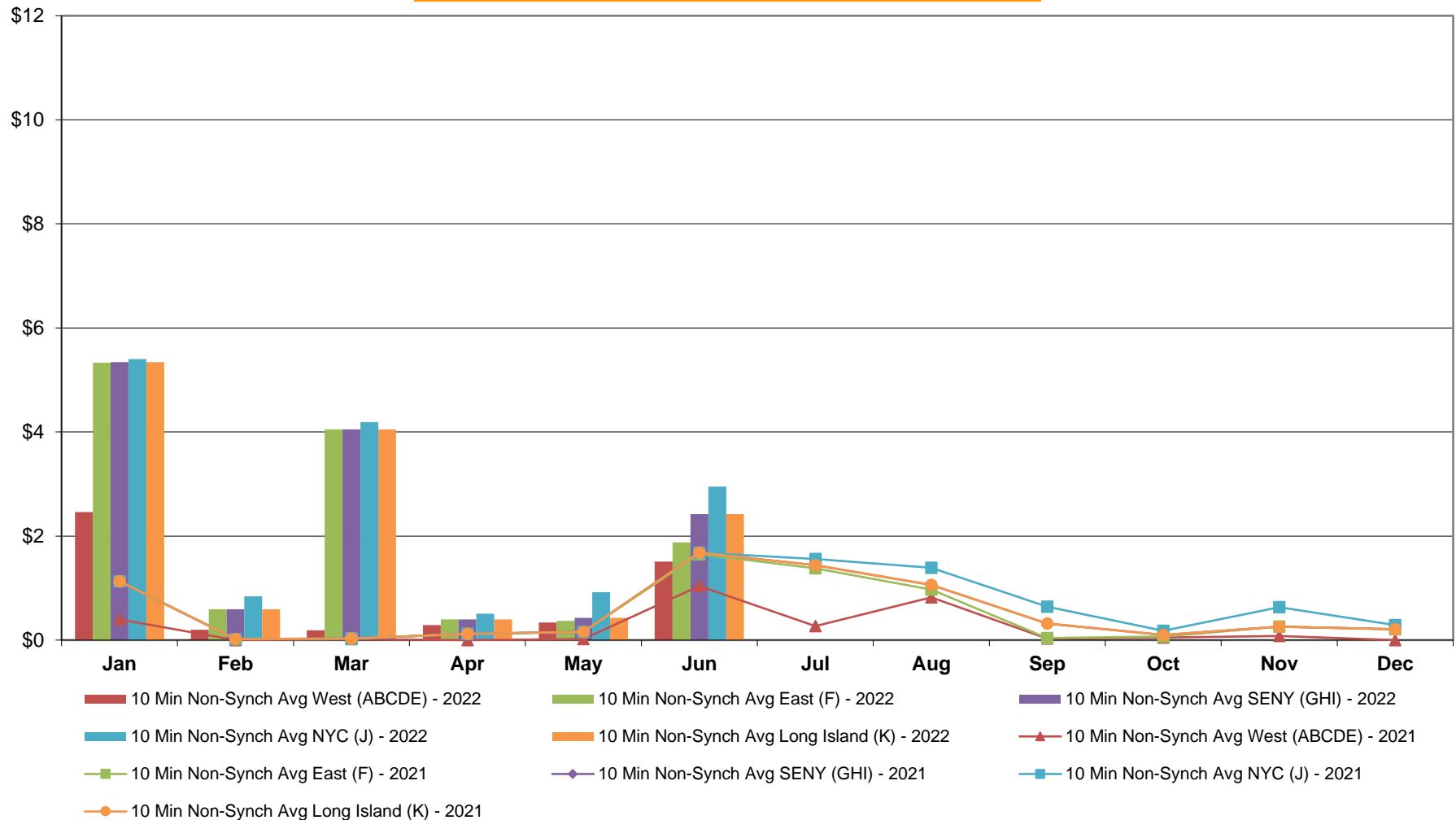
# **NYISO Monthly Average Ancillary Service Prices RTC Market - Regulation Movement 2021 - 2022**



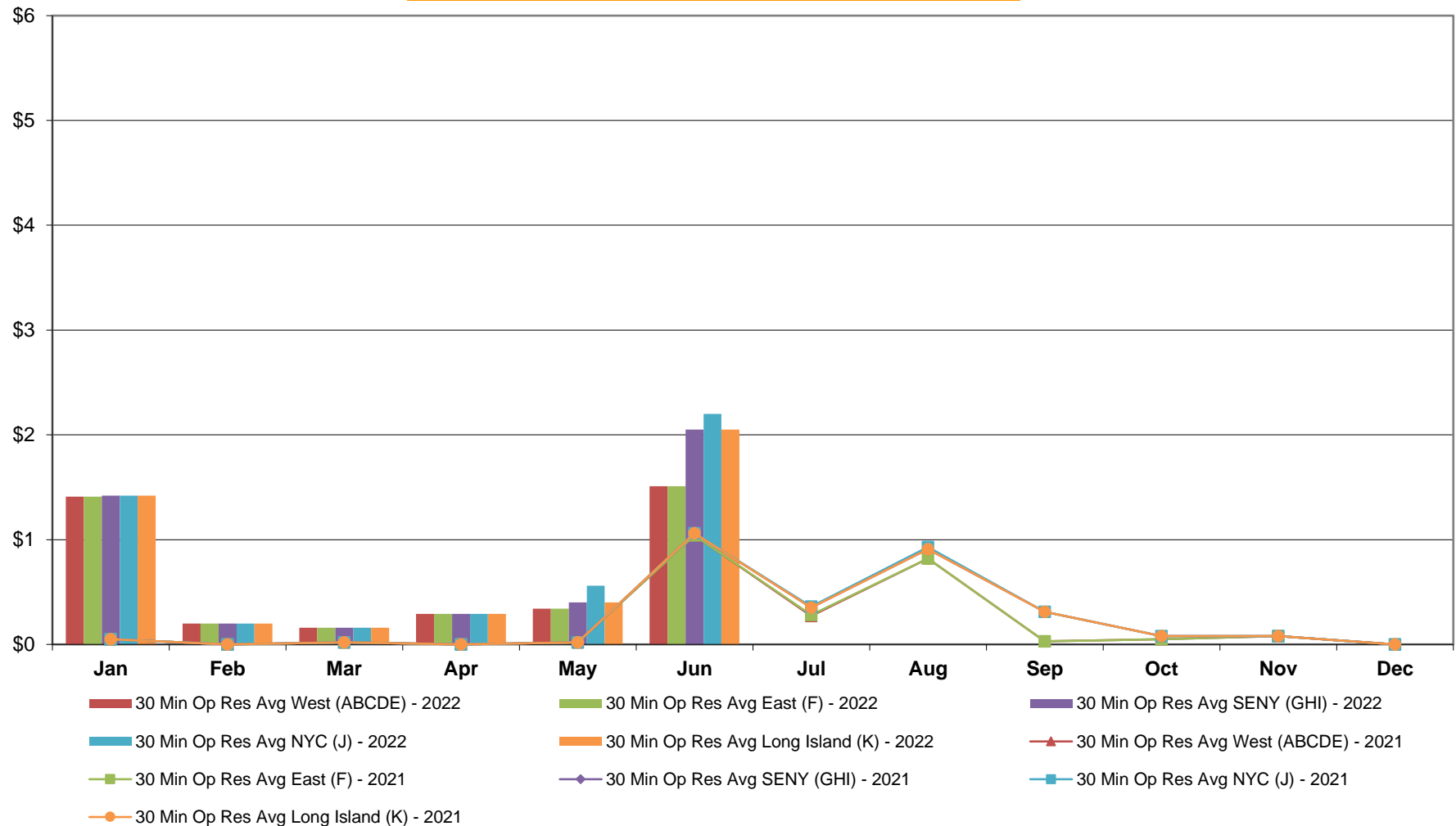
# **NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Spin 2021 - 2022**



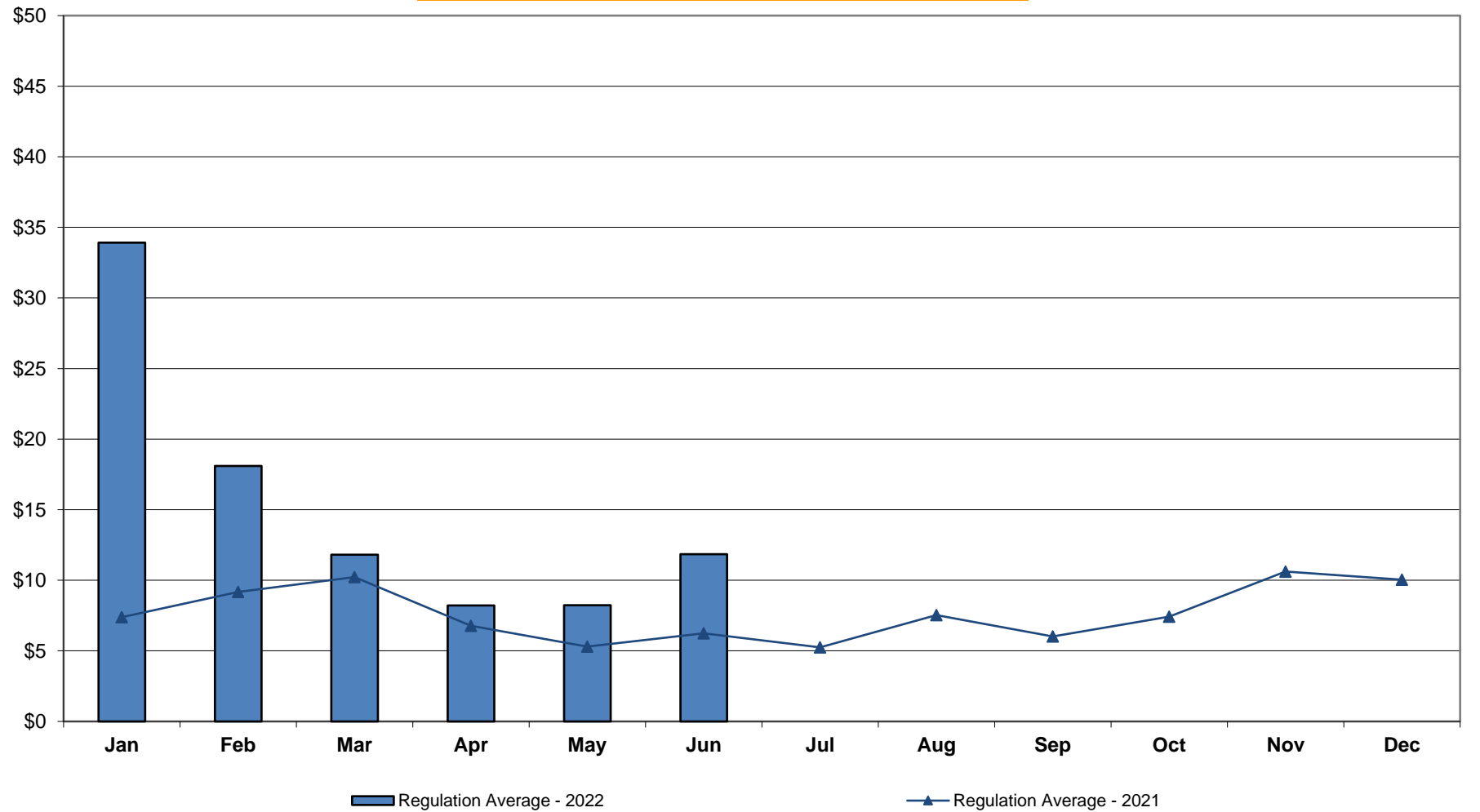
# **NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Non-Synch 2021 - 2022**



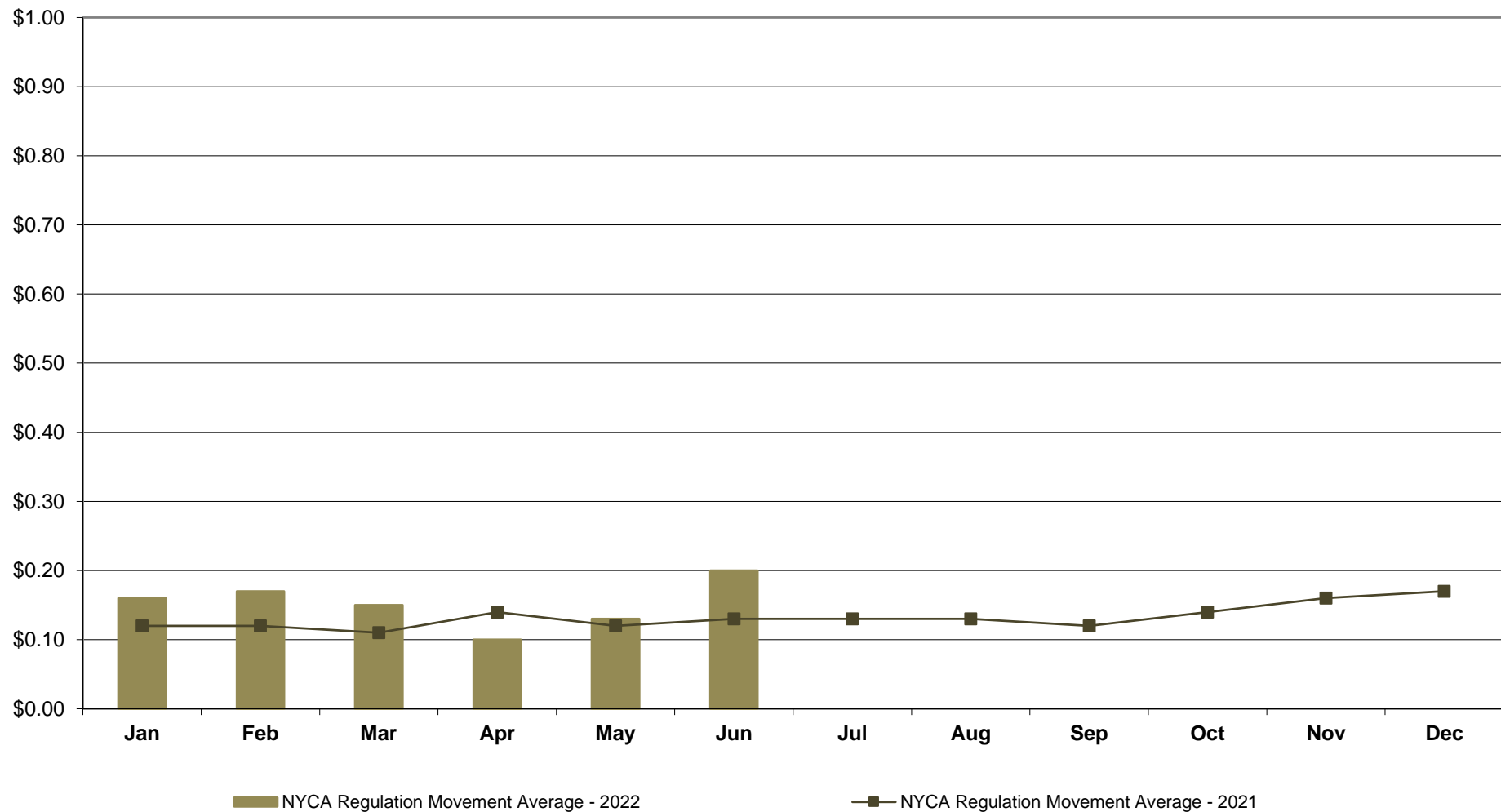
# **NYISO Monthly Average Ancillary Service Prices Real Time Market - 30 Min Op Res 2021 - 2022**



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



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



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

<b><u>2022</u></b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>Day Ahead Market</u></b>												
10 Min Spin Long Island (K)	14.40	11.34	6.76	6.79	6.32	5.88						
10 Min Spin NYC (J)	15.32	12.52	7.29	6.80	7.01	6.12						
10 Min Spin SENY (GHI)	14.40	11.34	6.76	6.79	6.32	5.88						
10 Min Spin East (F)	14.37	11.30	6.74	6.70	6.28	5.87						
10 Min Spin West (ABCDE)	12.74	8.93	5.48	5.01	4.34	4.99						
10 Min Non Synch Long Island (K)	9.70	9.48	5.68	4.87	4.68	4.83						
10 Min Non Synch NYC (J)	10.61	10.66	6.20	4.89	5.38	5.07						
10 Min Non Synch SENY (GHI)	9.70	9.48	5.68	4.87	4.68	4.83						
10 Min Non Synch East (F)	9.66	9.44	5.66	4.78	4.64	4.82						
10 Min Non Synch West (ABCDE)	8.88	7.35	4.66	4.50	4.15	4.60						
30 Min Long Island (K)	8.92	7.40	4.67	4.59	4.19	4.61						
30 Min NYC (J)	8.95	7.42	4.67	4.59	4.21	4.61						
30 Min SENY (GHI)	8.92	7.40	4.67	4.59	4.19	4.61						
30 Min East (F)	8.88	7.35	4.66	4.50	4.15	4.60						
30 Min West (ABCDE)	8.88	7.35	4.66	4.50	4.15	4.60						
Regulation	35.17	19.48	12.56	8.94	10.61	11.49						
<b><u>2021</u></b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>Day Ahead Market</u></b>												
10 Min Spin Long Island (K)	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

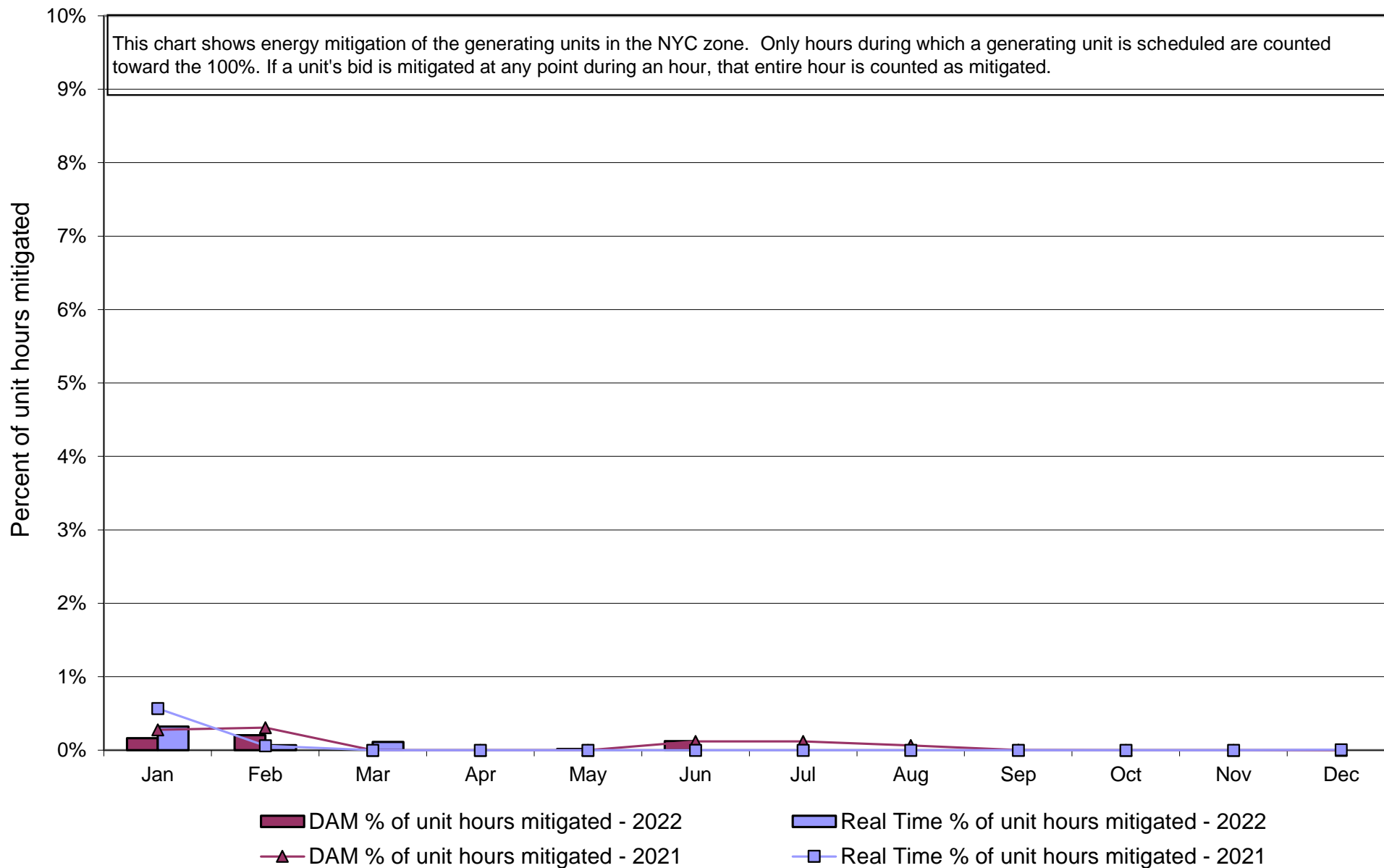
<u>2022</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>RTC Market</u></b>												
10 Min Spin Long Island (K)	11.75	7.55	4.73	2.39	3.15	5.06						
10 Min Spin NYC (J)	11.75	7.81	4.92	2.53	3.72	5.51						
10 Min Spin SENY (GHI)	11.75	7.55	4.73	2.39	3.15	5.06						
10 Min Spin East (F)	11.68	7.55	4.71	2.36	2.98	4.03						
10 Min Spin West (ABCDE)	7.59	5.49	1.27	1.03	1.75	2.47						
10 Min Non Synch Long Island (K)	3.67	0.69	2.97	0.37	1.47	2.88						
10 Min Non Synch NYC (J)	3.67	0.95	3.16	0.51	2.04	3.34						
10 Min Non Synch SENY (GHI)	3.67	0.69	2.97	0.37	1.47	2.88						
10 Min Non Synch East (F)	3.60	0.69	2.96	0.33	1.31	1.86						
10 Min Non Synch West (ABCDE)	1.79	0.24	0.29	0.30	1.00	1.58						
30 Min Long Island (K)	1.55	0.24	0.31	0.34	1.17	2.61						
30 Min NYC (J)	1.55	0.24	0.31	0.34	1.34	2.74						
30 Min SENY (GHI)	1.55	0.24	0.31	0.34	1.17	2.61						
30 Min East (F)	1.48	0.24	0.29	0.30	1.00	1.58						
30 Min West (ABCDE)	1.48	0.24	0.29	0.30	1.00	1.58						
Regulation	31.59	17.95	12.23	7.77	8.36	14.11						
NYCA Regulation Movement	0.16	0.17	0.14	0.10	0.13	0.20						
<b><u>2021</u></b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>RTC Market</u></b>												
10 Min Spin Long Island (K)	1.65	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

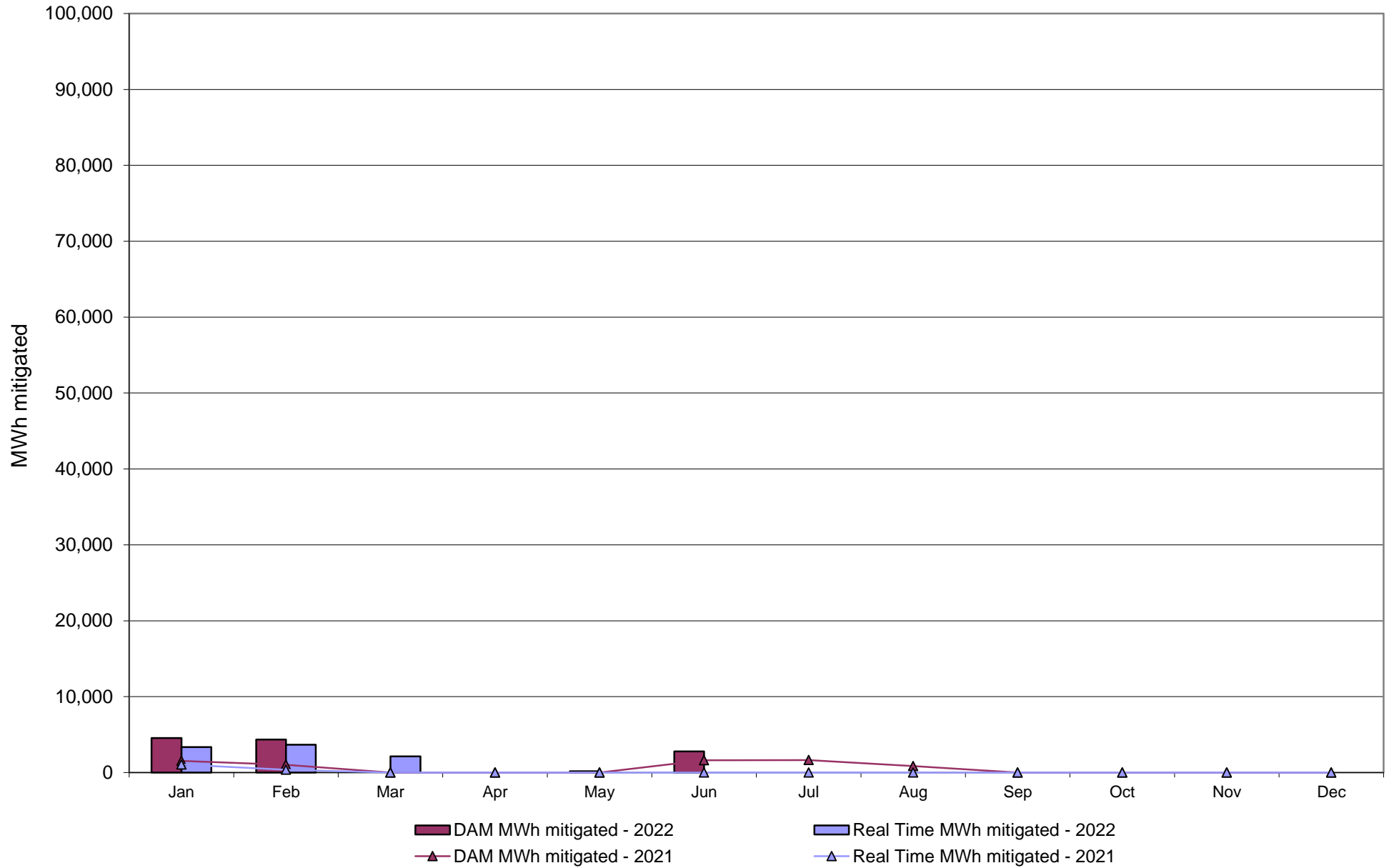
<u>2022</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>Real Time Market</u></b>												
10 Min Spin Long Island (K)	17.99	9.02	6.90	3.15	2.68	4.93						
10 Min Spin NYC (J)	18.04	9.27	7.04	3.27	3.17	5.46						
10 Min Spin SENY (GHI)	17.99	9.02	6.90	3.15	2.68	4.93						
10 Min Spin East (F)	17.97	9.02	6.90	3.15	2.62	4.39						
10 Min Spin West (ABCDE)	13.47	7.56	2.14	1.83	1.76	3.13						
10 Min Non Synch Long Island (K)	5.34	0.59	4.05	0.40	0.43	2.42						
10 Min Non Synch NYC (J)	5.40	0.84	4.19	0.51	0.92	2.95						
10 Min Non Synch SENY (GHI)	5.34	0.59	4.05	0.40	0.43	2.42						
10 Min Non Synch East (F)	5.33	0.59	4.05	0.40	0.37	1.88						
10 Min Non Synch West (ABCDE)	2.46	0.20	0.19	0.29	0.34	1.51						
30 Min Long Island (K)	1.42	0.20	0.16	0.29	0.40	2.05						
30 Min NYC (J)	1.42	0.20	0.16	0.29	0.56	2.20						
30 Min SENY (GHI)	1.42	0.20	0.16	0.29	0.40	2.05						
30 Min East (F)	1.41	0.20	0.16	0.29	0.34	1.51						
30 Min West (ABCDE)	1.41	0.20	0.16	0.29	0.34	1.51						
Regulation	33.92	18.10	11.81	8.22	8.23	11.84						
NYCA Regulation Movement	0.16	0.17	0.15	0.10	0.13	0.20						
<b><u>2021</u></b>	<b><u>January</u></b>	<b><u>February</u></b>	<b><u>March</u></b>	<b><u>April</u></b>	<b><u>May</u></b>	<b><u>June</u></b>	<b><u>July</u></b>	<b><u>August</u></b>	<b><u>September</u></b>	<b><u>October</u></b>	<b><u>November</u></b>	<b><u>December</u></b>
<b><u>Real Time Market</u></b>												
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

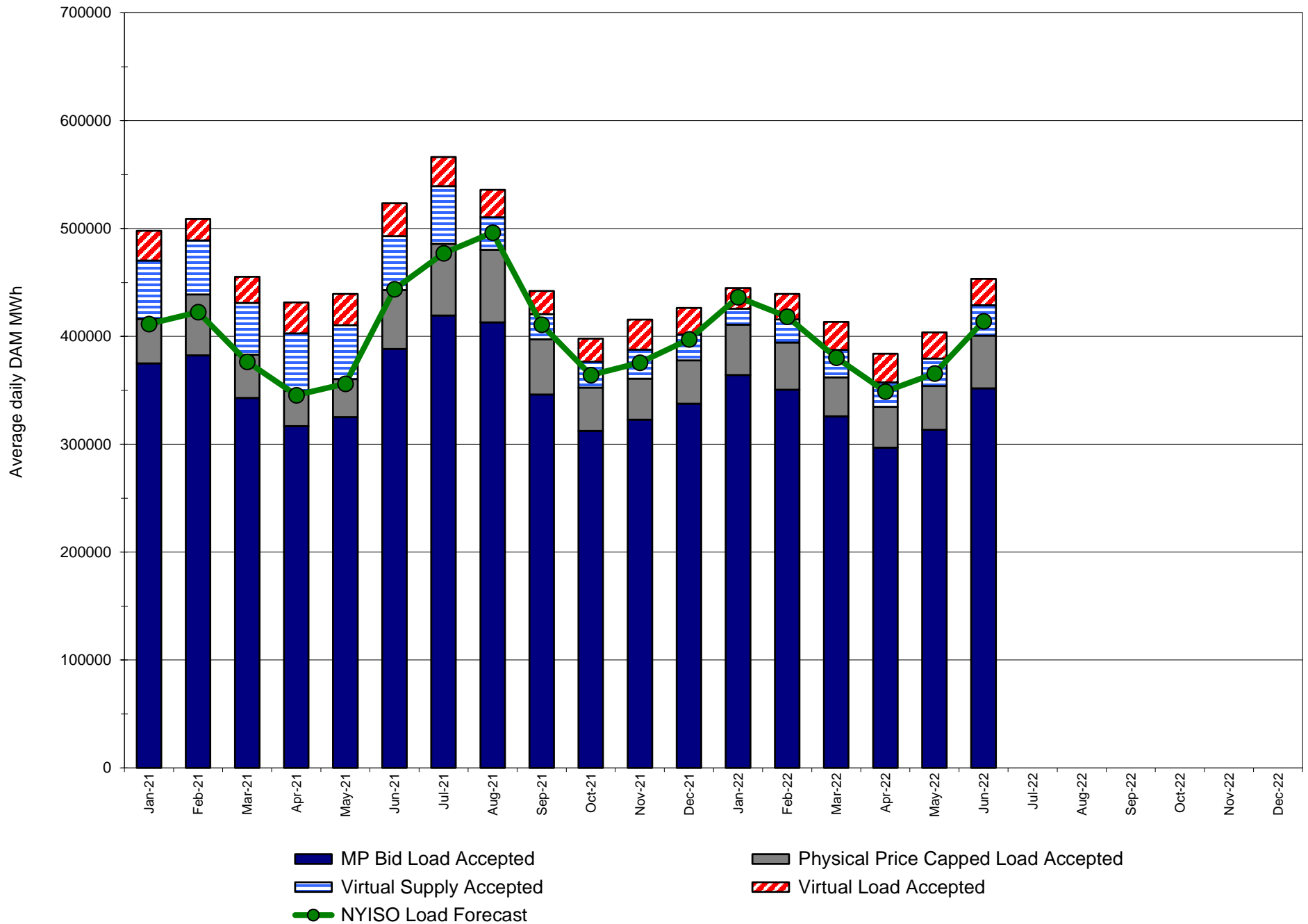
### Percentage of committed unit-hours mitigated



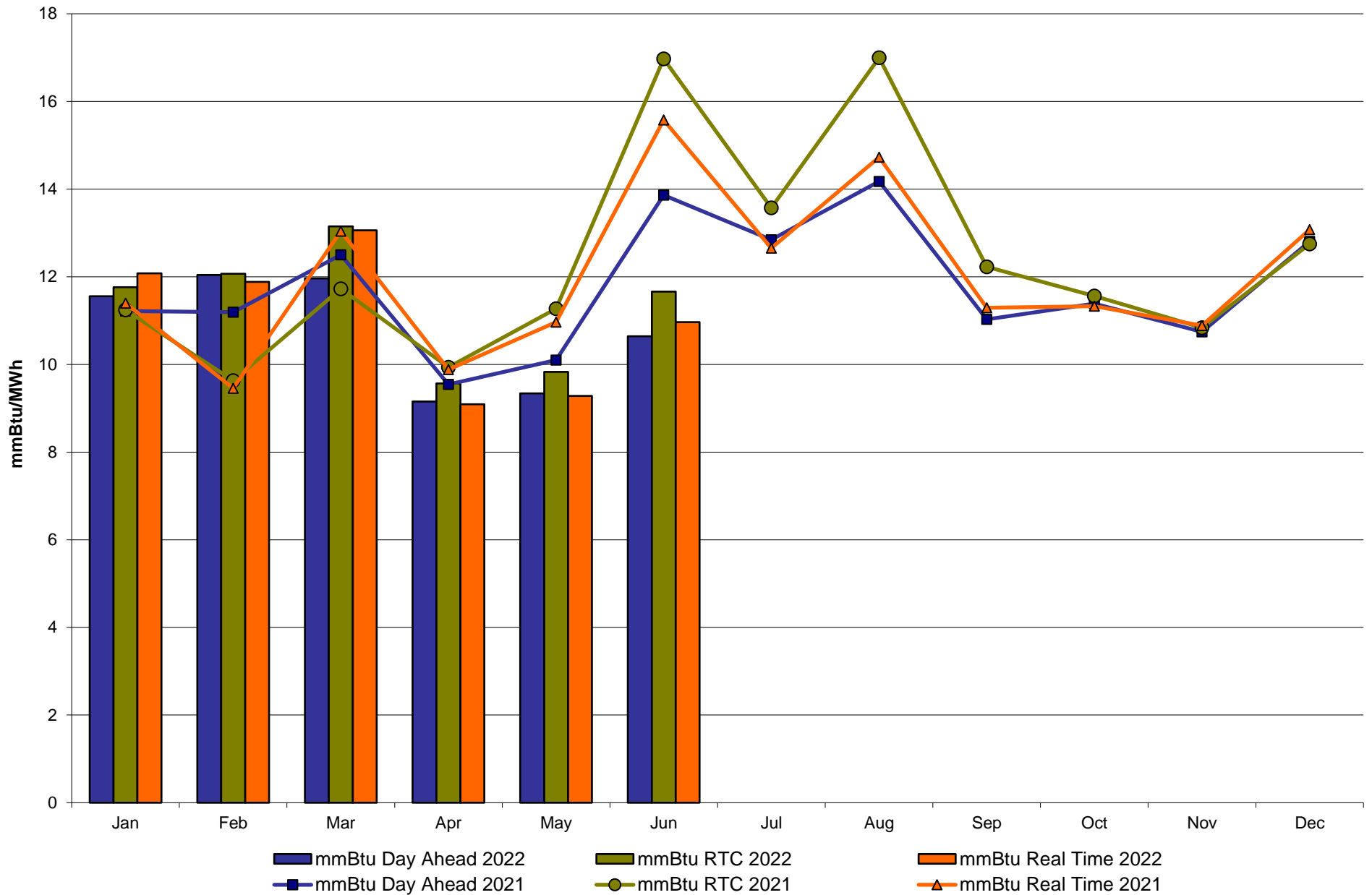
# **NYISO In City Energy Mitigation (NYC Zone) 2021 - 2022** **Monthly megawatt hours mitigated**



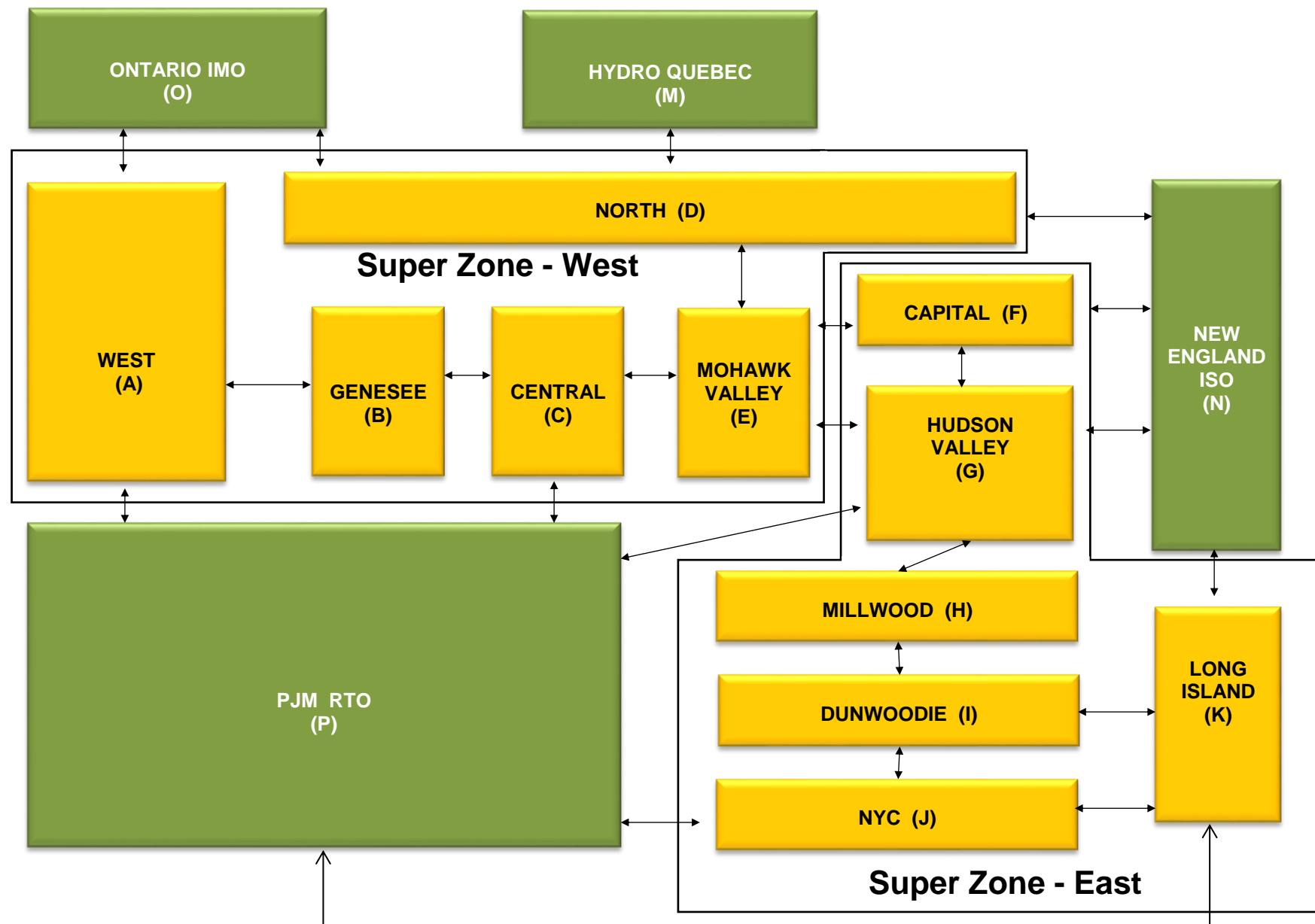
# NYISO Average Daily DAM Load Bid Summary



# Monthly Implied Heat Rate 2021-2022



# NYISO LBMP ZONES

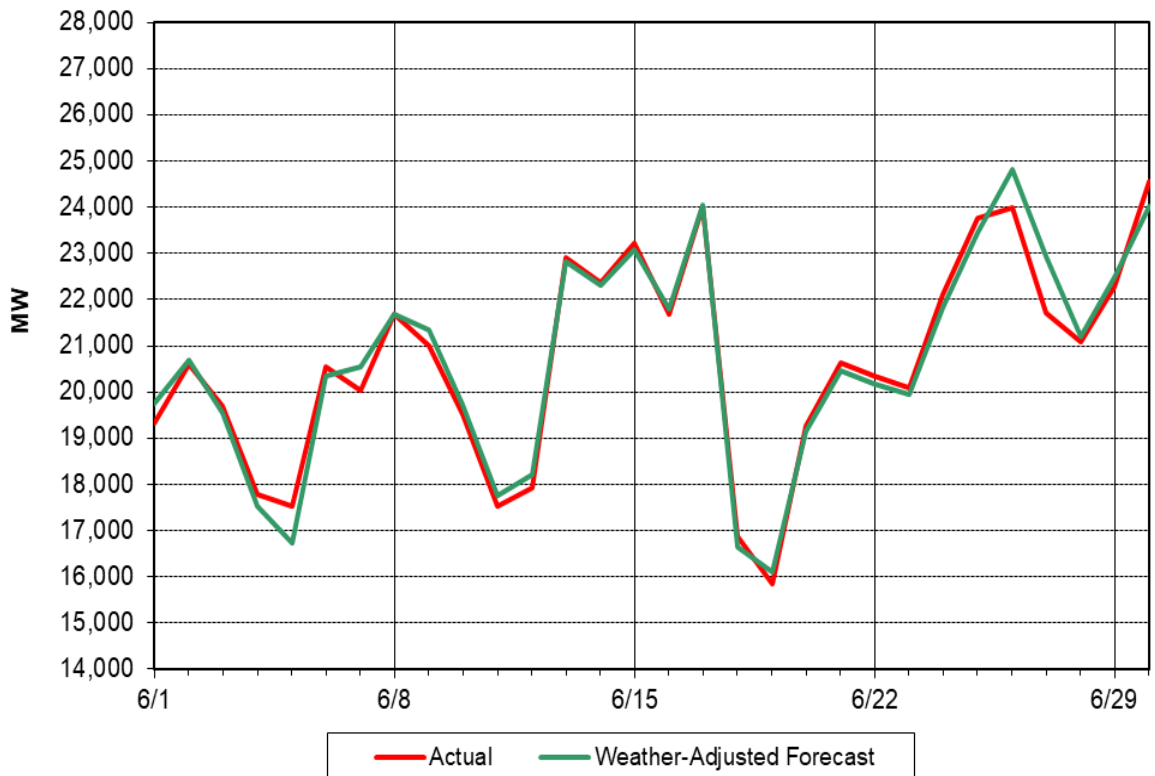


### Billing Codes for Chart C

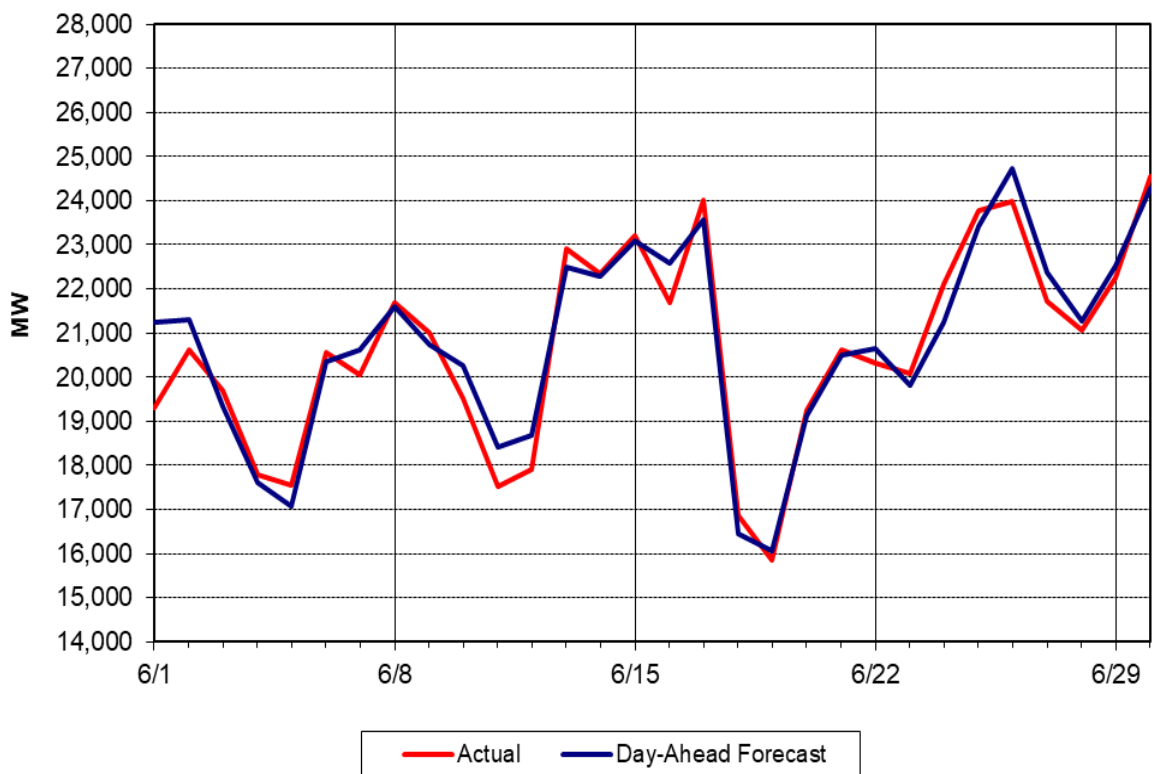
<u>Chart - C Category Name</u>	<u>Billing Code</u>	<u>Billing Category Name</u>
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid 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



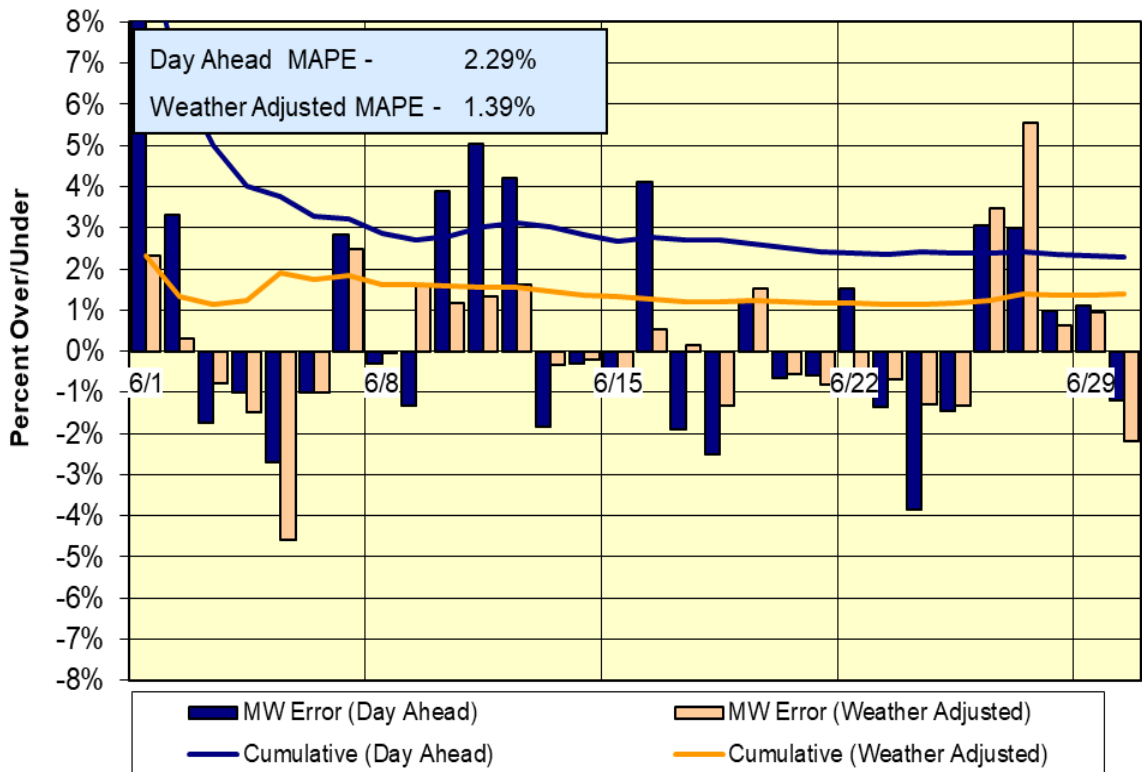
**NYISO Daily Peak Load - June 2022**  
**Actual vs. Weather-Adjusted Forecast**



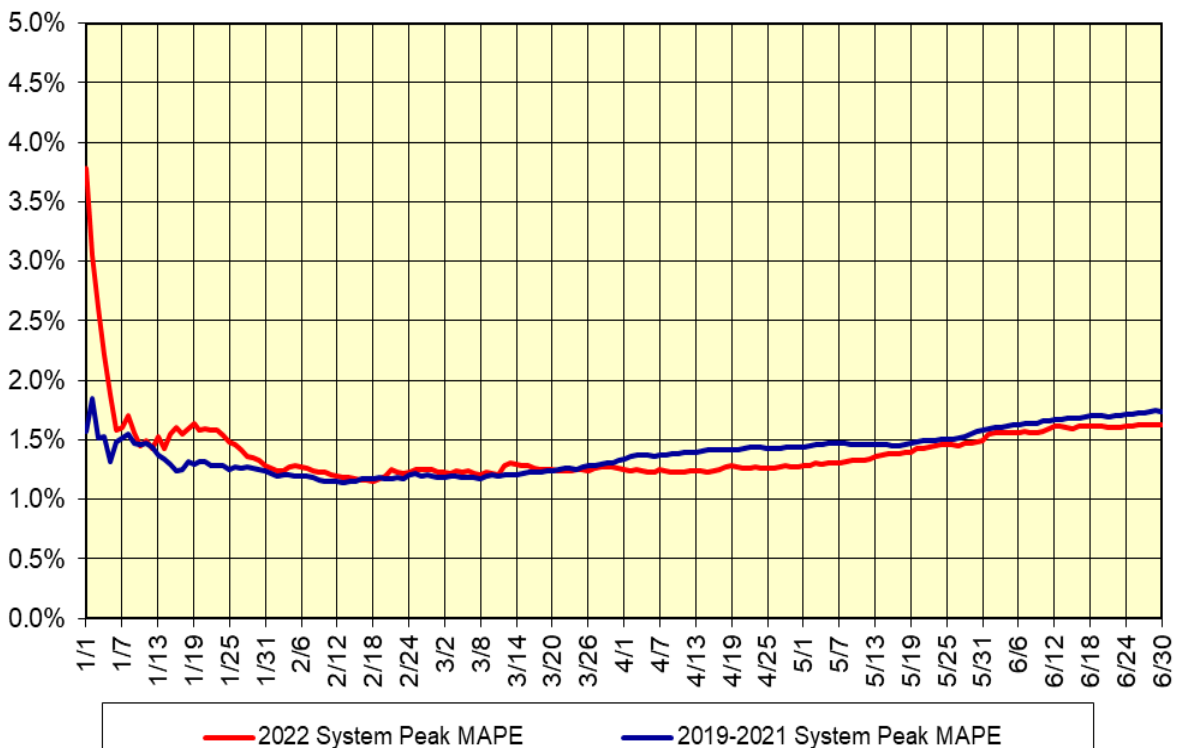
**NYISO Daily Peak Load - June 2022**  
**Actual vs. Forecast**



### Day Ahead Peak Forecast - June 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 – June 2022

<b>Filing Date</b>	<b>Filing Summary</b>	<b>Docket</b>	<b>Order Summary</b>	<b>Order Date</b>
03/21/2022	NYISO compliance filing directed by FERC's February 17, 2022 Order related to Part A Test Enhancements to the NYISO's Installed Capacity buyer-side market power mitigation measures	ER20-1718-003	An Order directed the NYISO to submit a further compliance filing no later than August 1, 2022	06/02/2022
04/14/2022	NYISO-NYSEG joint Section 205 filing to FERC of a Transmission Project Interconnection Agreement among NYISO, NYSEG and NY Transco for the New York Energy Solution Project	ER22-1635-000	An Order accepted the submission, effective April 6, 2022, as requested	06/10/2022
04/29/2022	NYISO Section 205 filing to FERC of tariff revisions regarding real-time BPCGs	ER22-1733-000	An Order accepted the submission, effective June 29, 2022, as requested	06/16/2022
11/19/2021	NYISO filing to FERC of a response to questions concerning the NYISO's compliance filing in response to Order No. 2222 Participation of Distributed Energy Resource Aggregations in Markets Operated by RTOs and ISOs	ER21-2460-001	An Order accepted the submission directed NYISO for further compliance filing within 60 days of the date of this order	06/17/2022
04/28/2022	NYISO filing on behalf of NMPC to FERC of a Section 205 filing of a Cost Reimbursement Agreement between Niagara Mohawk and RG&E for expansion of Farmington Substation 168	ER22-1700-000	An Order accepted the submission, effective April 1, 2022, as requested	06/24/2022
04/28/2022	NYISO filing on behalf of NMPC to FERC of a Section 205 filing of a Small Generator Interconnection Agreements with affiliated interconnection customers, each individually an agreement, between Niagara Mohawk and Bayside Solar, Beta Solar, Central Solar, Creek Solar and Helmet Solar	ER22-1702-000	A letter of deficiency notice directed NMPC to provide additional information within 30 days of the notice date	06/23/2022
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	An Order accepted the submission, effective May 1, 2022, as requested	06/29/2022

<b>Filing Date</b>	<b>Filing Summary</b>	<b>Docket</b>	<b>Order Summary</b>	<b>Order Date</b>
06/03/2022	NYISO-National Grid joint Section 205 filing to FERC of a Small Generator Interconnection Agreement among NYISO, National Grid and SunEast Watkins Road Solar for Watkins Road Solar Project	ER22-2020-000		
06/06/2022	NYISO-National Grid joint Section 205 filing to FERC of a Small Generator Interconnection Agreement among NYISO, National Grid and Hecate Energy Albany 1 LLC, for the Albany County 1 Solar Project	ER22-2032-000		
06/06/2022	NYISO-National Grid joint Section 205 filing to FERC of a Small Generator Interconnection Agreement among NYISO, National Grid and Hecate Energy Albany 2 LLC, for the Albany County 2 Solar Project	ER22-2036-000		
06/06/2022	NYISO filing to FERC on behalf of NEET New York proposed second amendments to NEET New York's April 4, 2022 filing including the ministerial amendments proposed in the May 20, 2022 amendment to its formula rate revisions	ER22-1571-002		
06/08/2022	NYISO filing to FERC in compliance with a May 2022 order, of proposed Services Tariff revisions to reflect UCAP formula modifications	ER22-772-002		
06/09/2022	NYISO-National Grid joint Section 205 filing to FERC of a Small Generator Interconnection Agreement among NYISO, National Grid and SunEast Solar for the Solar for the Hills Solar Project	ER22-2062-000		
06/13/2022	NYISO filing to FERC of a notice of the immediate termination of ICON Energy, LLC from the ISO-Administered Markets	No docket no.		
06/20/2022	NYISO-NYPA joint filing to FERC of a Merchant Transmission Facility Interconnection Agreement for the Champlain Hudson Power Express Project among the NYISO, NYPA, and Champlain Hudson Power Express	ER22-2151-000		
06/21/2022	NYISO filing on behalf of NYTOs to FERC of proposed tariff amendments for regional allocation and recovery of the costs of new local transmission projects selected and authorized by the New York State Public Service Commission as necessary to meet requirements of New York State law	ER22-2154-000		

06/23/2022	NYISO filing to FERC of confidential copy of the Consolidated Edison System Restoration Plan dated June 1, 2022	ER12-2568-000		
06/28/2022	NYISO filing to FERC of motion to intervene and comments in response to Bear Ridge Solar limited waiver request of NYISO tariff provisions related to a regulatory milestone and withdrawal from the NYISO's Interconnection Queue	ER22-2085-000		