

# Monthly Report

A Report by the  
New York Independent System Operator

**December 2021**

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



## ***December 2021 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 January 11, 2022.

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## December 2021 Operations Performance Highlights

- Peak load of 21,146 MW occurred on 12/20/2021 HB 17
- All-time winter capability period peak load of 25,738 MW occurred on 01/07/2014 HB 18
- 0 hours of Thunderstorm Alerts were declared
- 42 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.
- NEETNY (NextEra) commissioned a New York Control Center to facilitate operation of the company's Western NY Public Policy Project assets associated with the new Dysinger 345kV station.

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

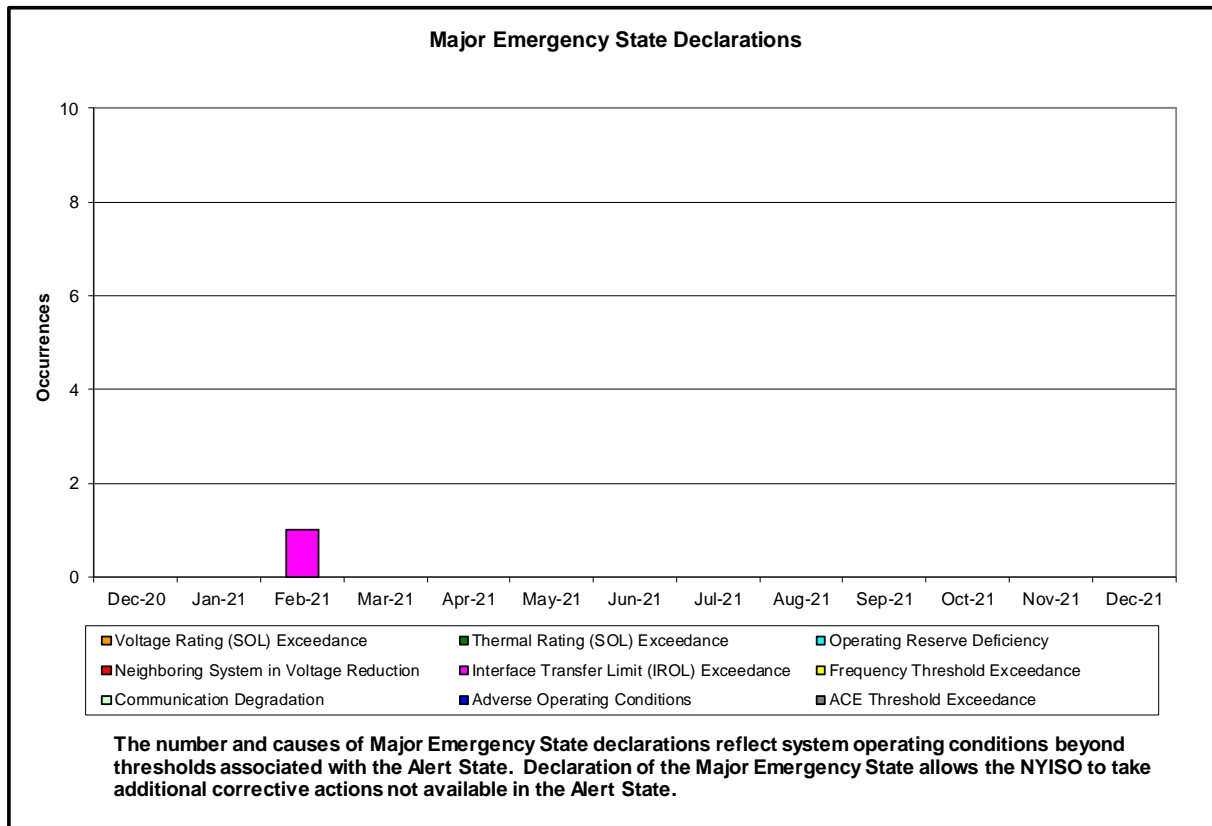
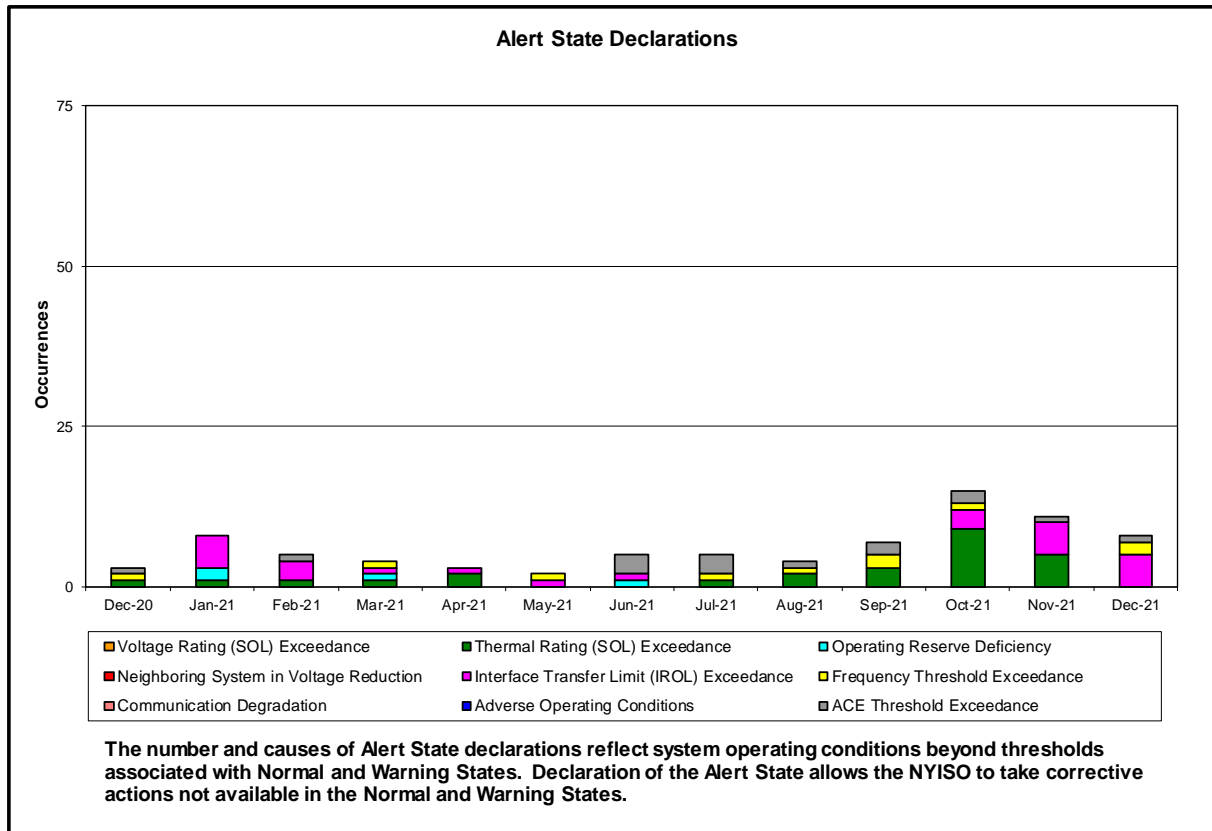
	Current Month Value (\$M)	Year-to-Date Value (\$M)
<b>NY Savings from PJM-NY Congestion Coordination</b>	\$2.16	\$18.38
<b>NY Savings from PJM-NY Coordinated Transaction Scheduling</b>	\$0.26	\$1.12
<b>NY Savings from NE-NY Coordinated Transaction Scheduling</b>	\$0.34	\$0.45
<b>Total NY Savings</b>	<b>\$2.76</b>	<b>\$19.94</b>
<b>Regional Savings from PJM-NY Coordinated Transaction Scheduling</b>	\$0.33	\$5.67
<b>Regional Savings from NE-NY Coordinated Transaction Scheduling</b>	\$0.08	\$0.43
<b>Total Regional Savings</b>	<b>\$0.42</b>	<b>\$6.10</b>

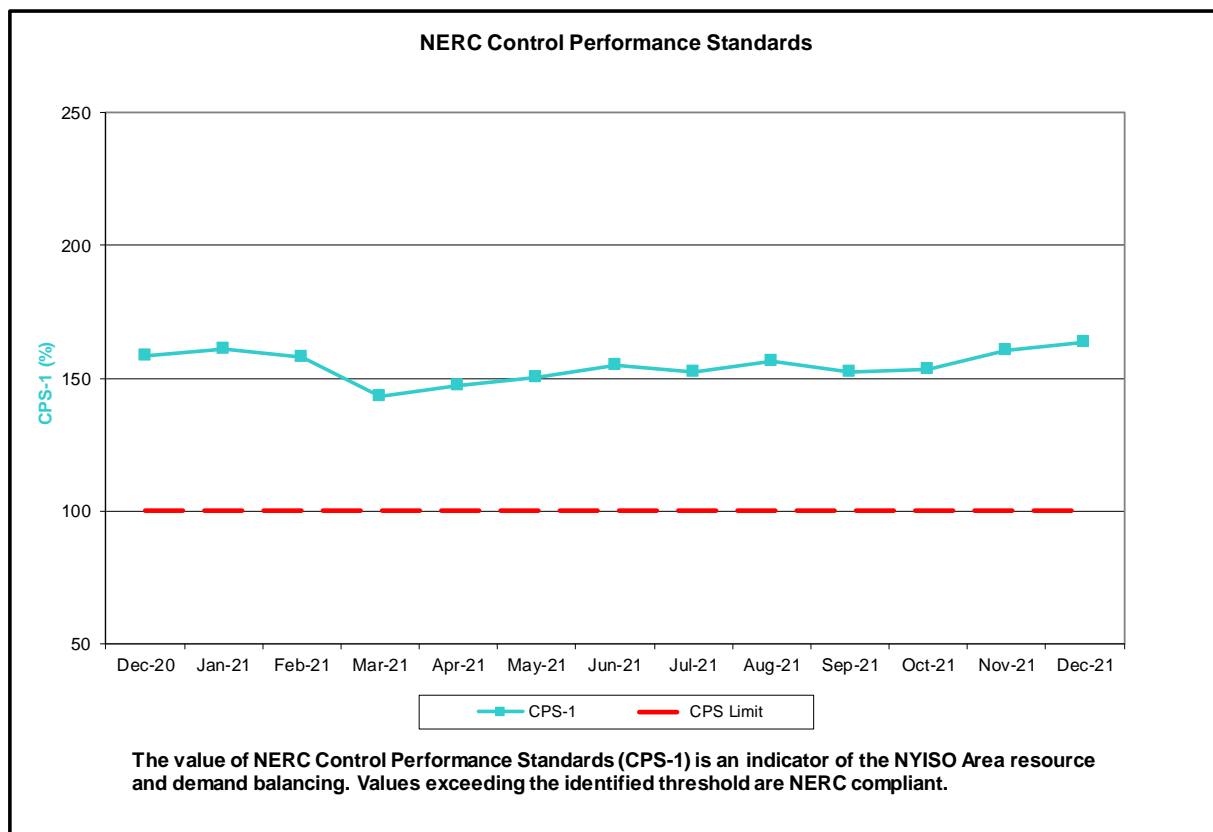
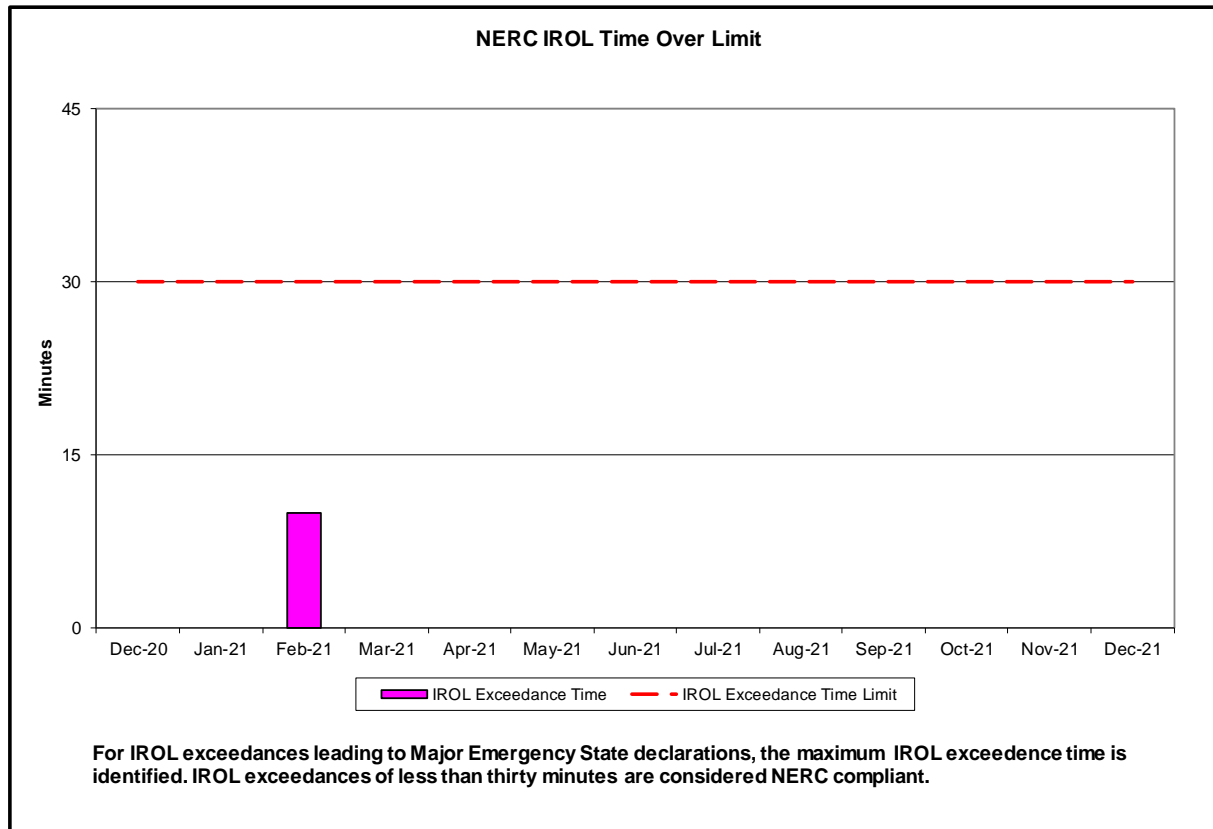
- Statewide uplift cost monthly average was (\$0.53)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
January 2022 Spot Price	\$3.82	\$3.82	\$3.82	\$3.82
December 2021 Spot Price	\$2.95	\$2.95	\$2.95	\$2.95
Delta	\$0.87	\$0.87	\$0.87	\$0.87

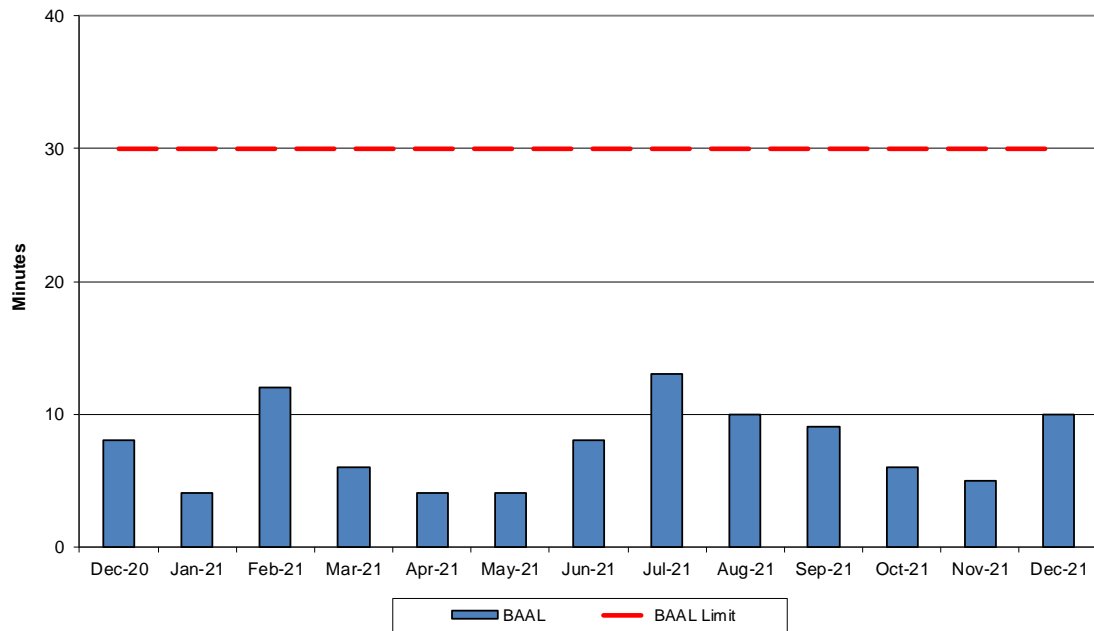
- NYCA experienced \$0.87 clearing price increase due to a decrease in net Imports. The clearing price for Lower Hudson Valley, New York City, and Long Island zones were set by NYCA.

## Reliability Performance Metrics



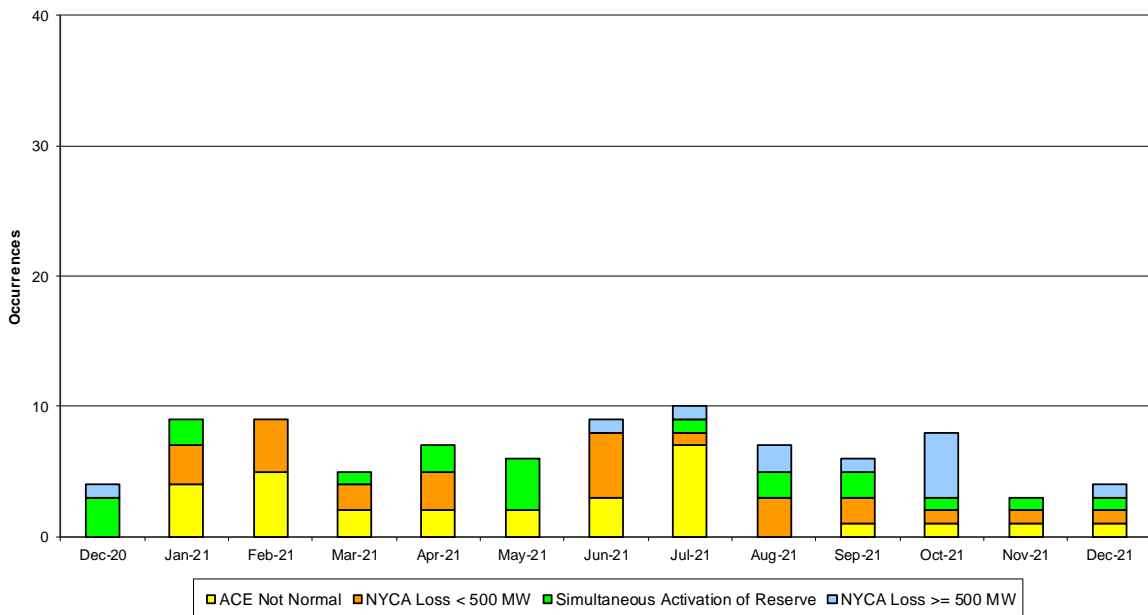


### NERC Balancing Authority ACE Limit Standard



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

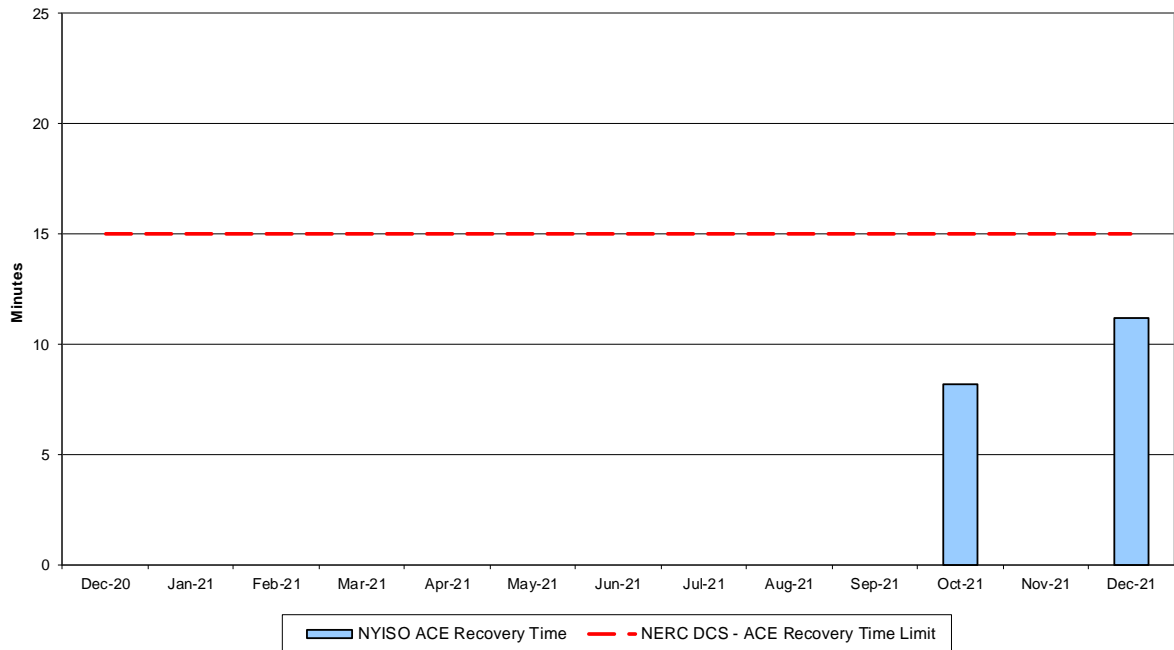
### Reserve Activations



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

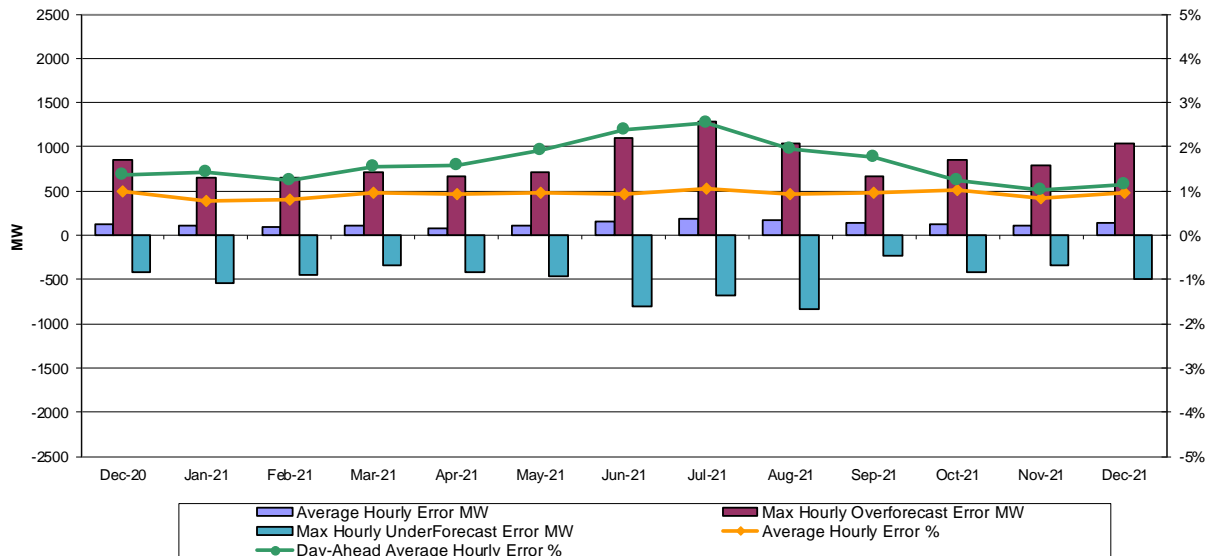


### DCS Event Time to ACE Recovery



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

### Load Forecast Performance

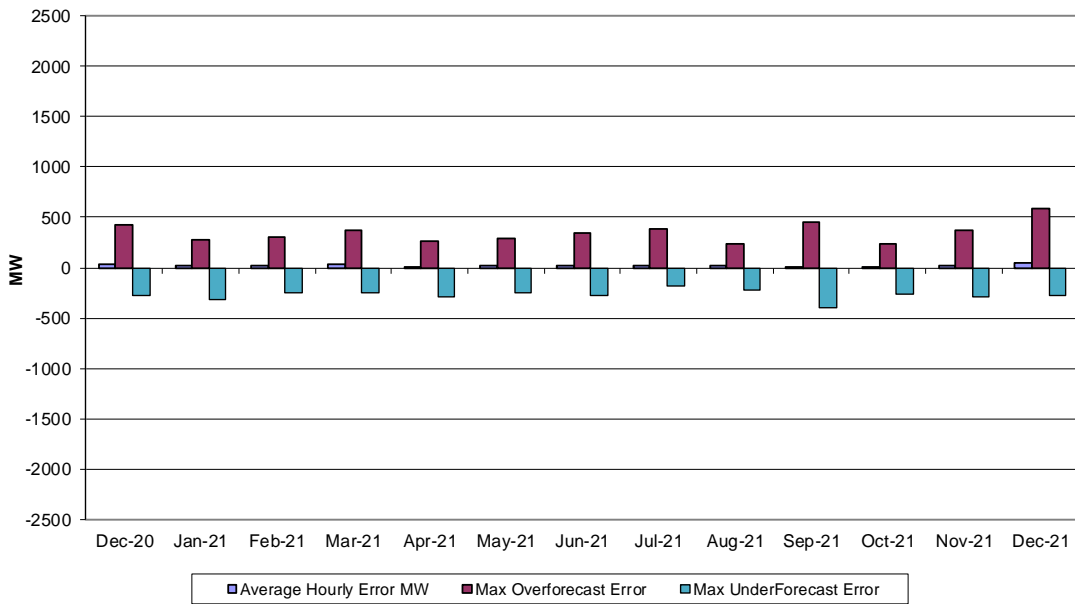


**Hourly Error MW** - Value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

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

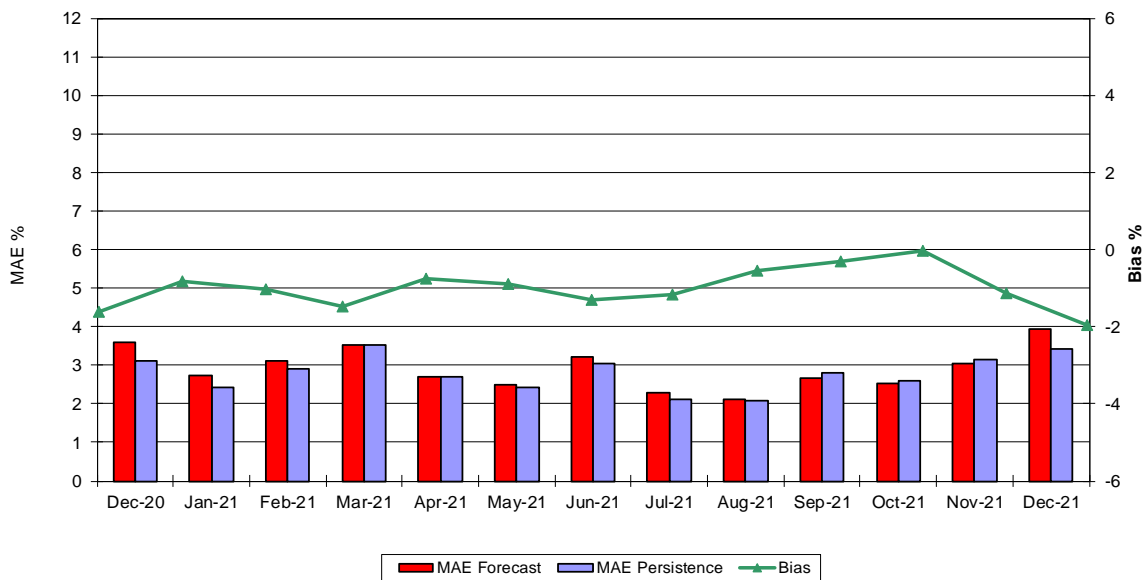
**Day-Ahead Average Hourly Error %** - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

### Wind Forecast Performance Hour Ahead MW Error

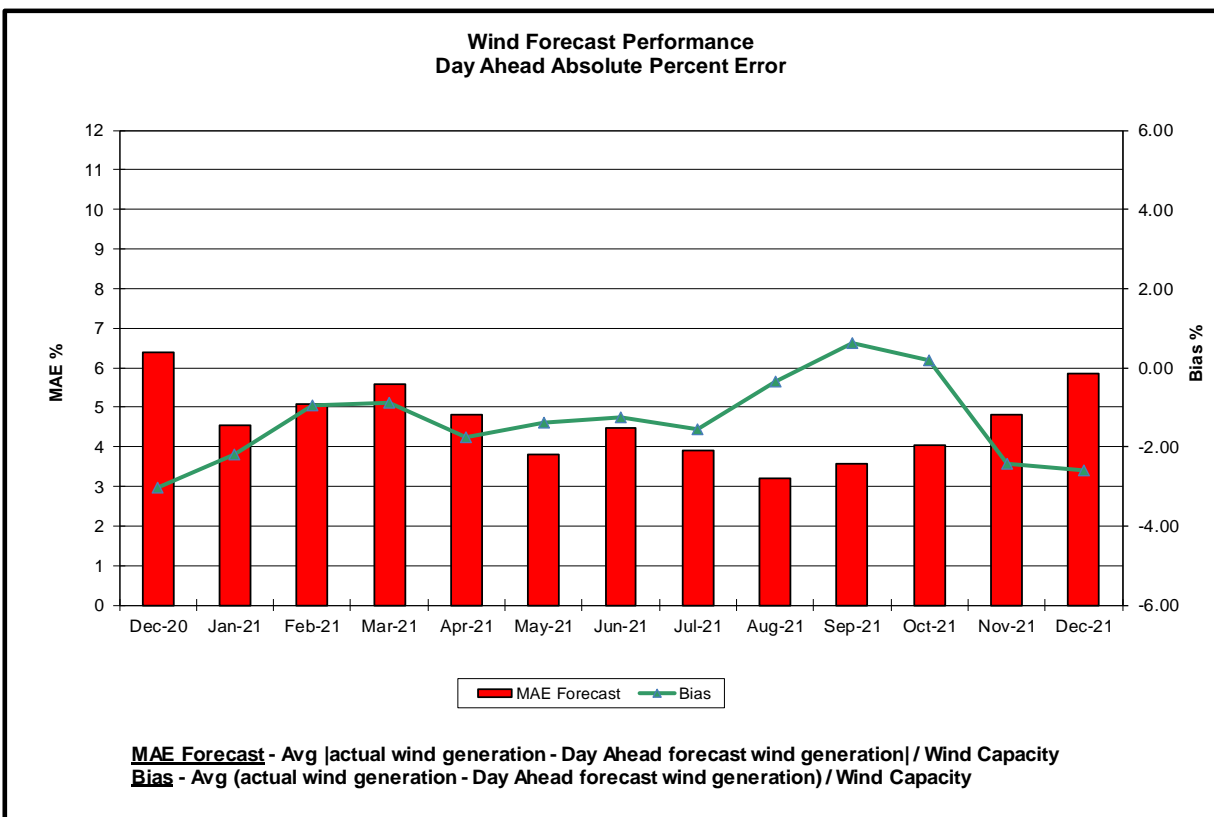
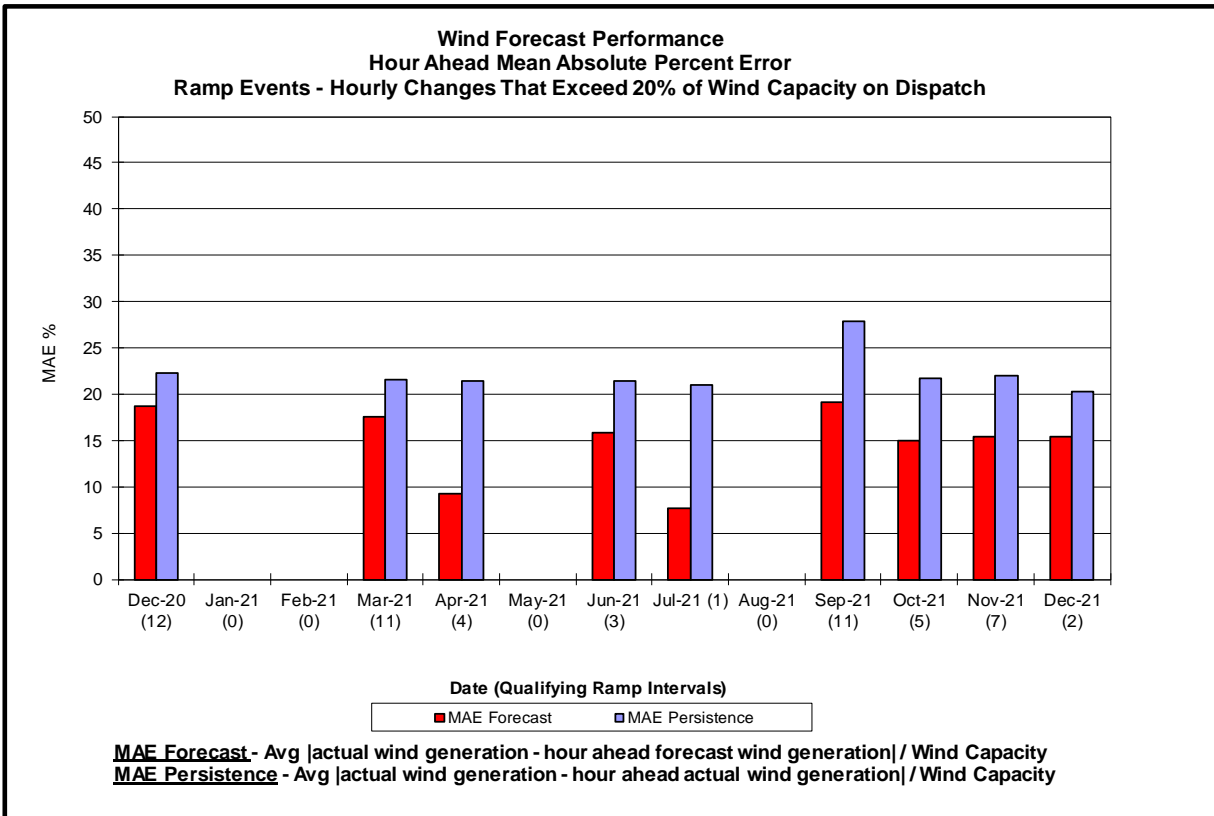


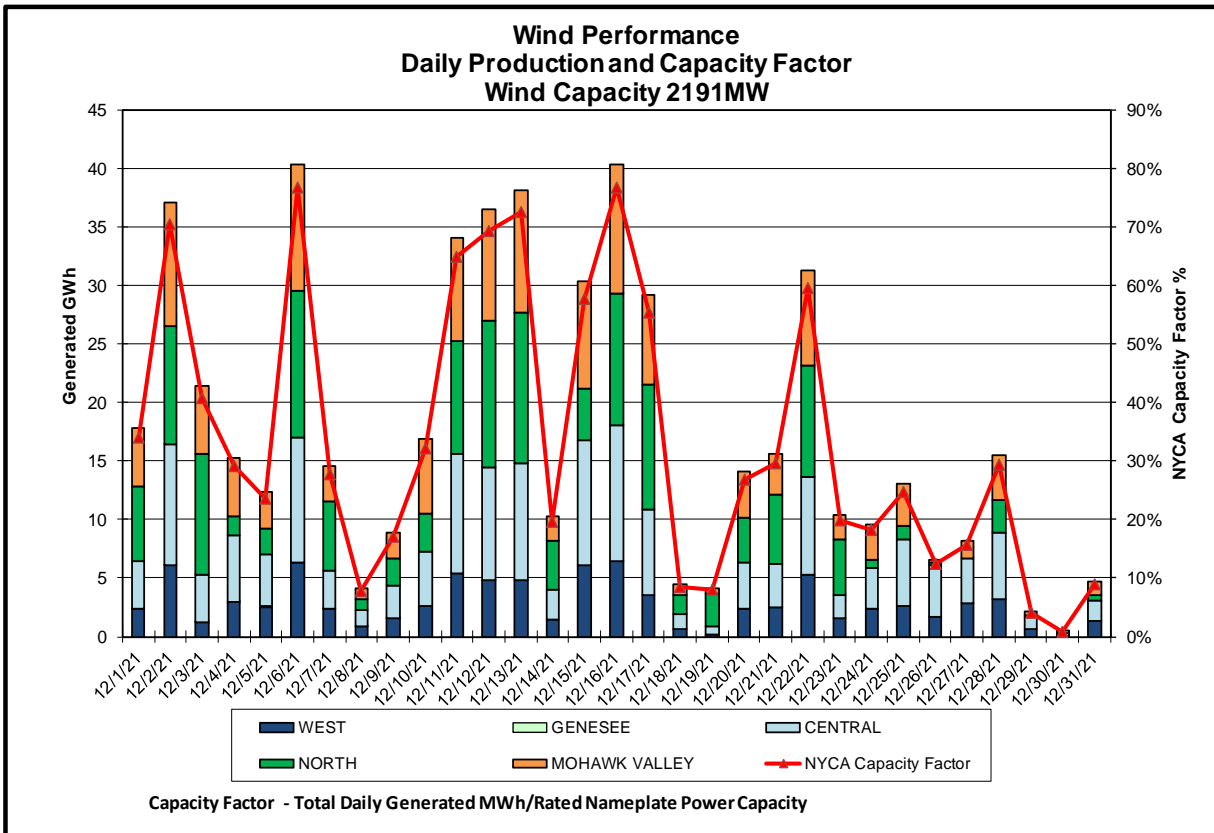
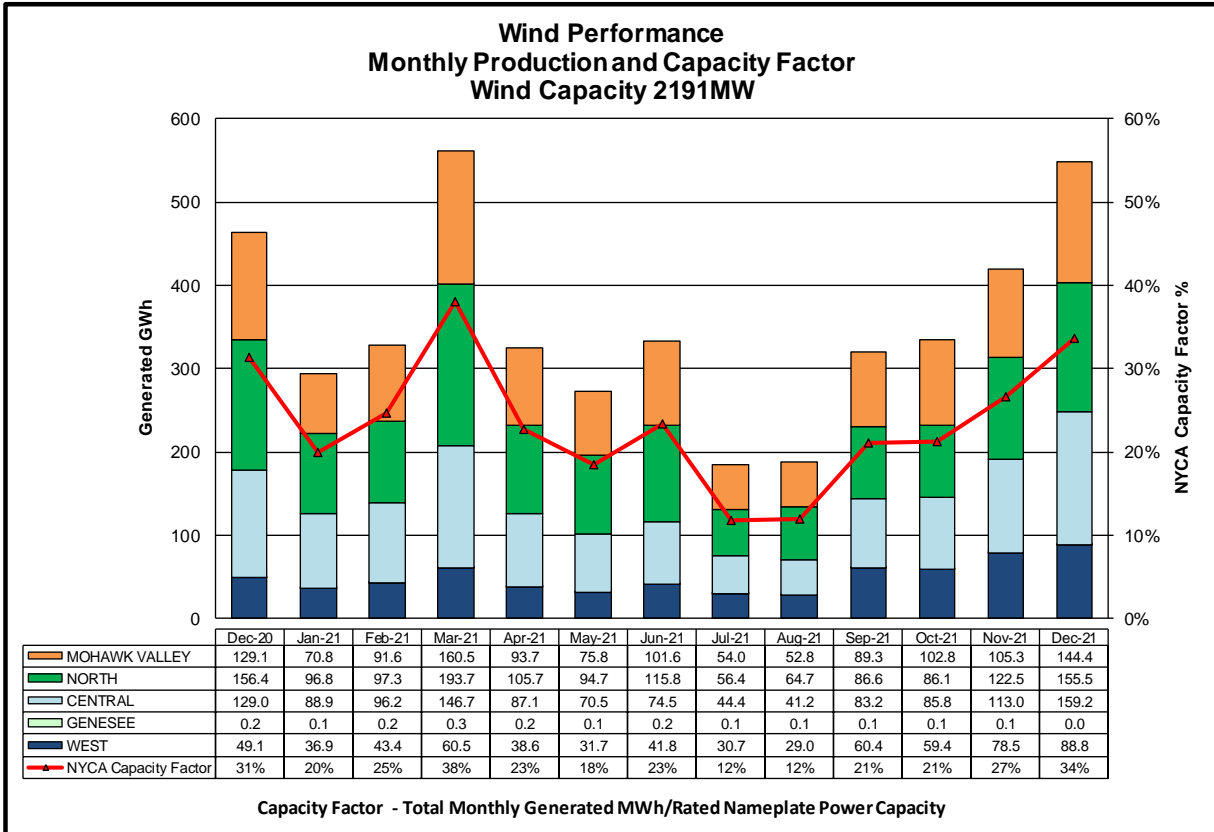
**Hourly Error MW** - Value of the difference between the hourly average actual wind generation and the average hour ahead forecast wind generation.

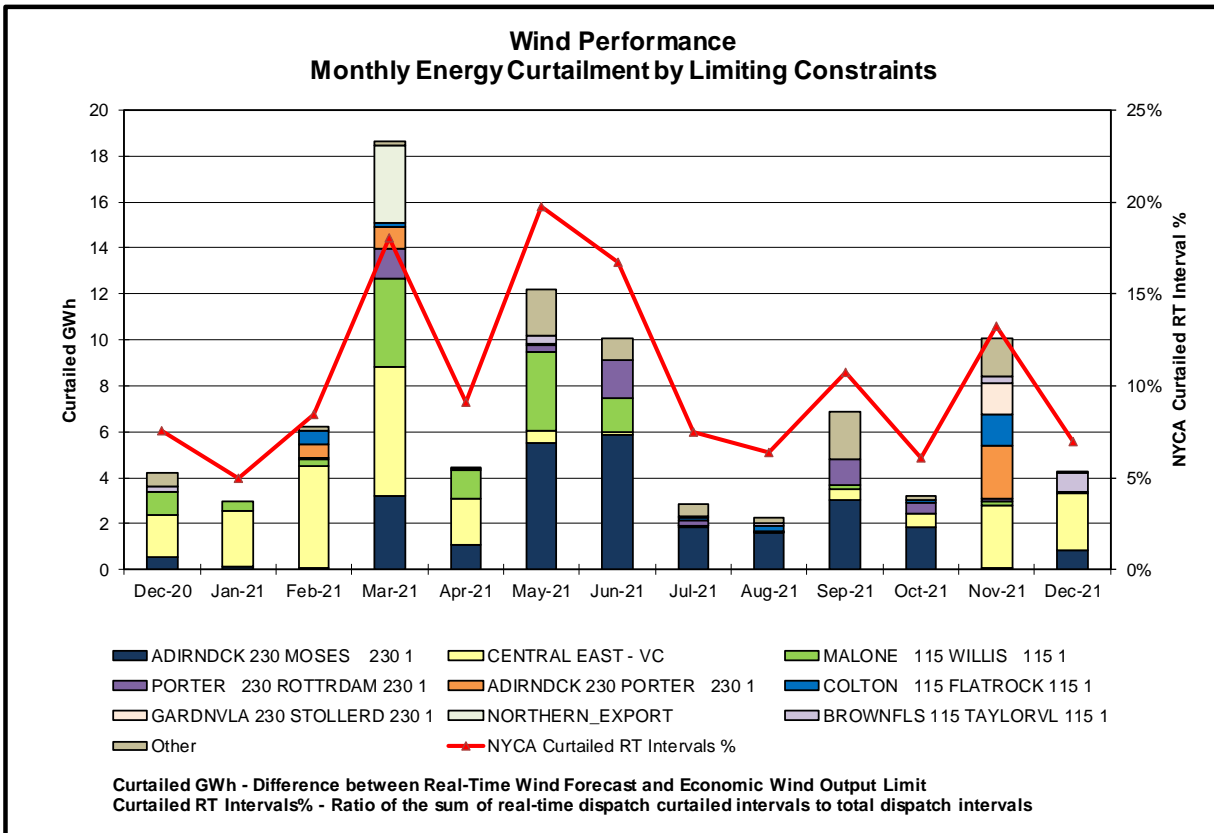
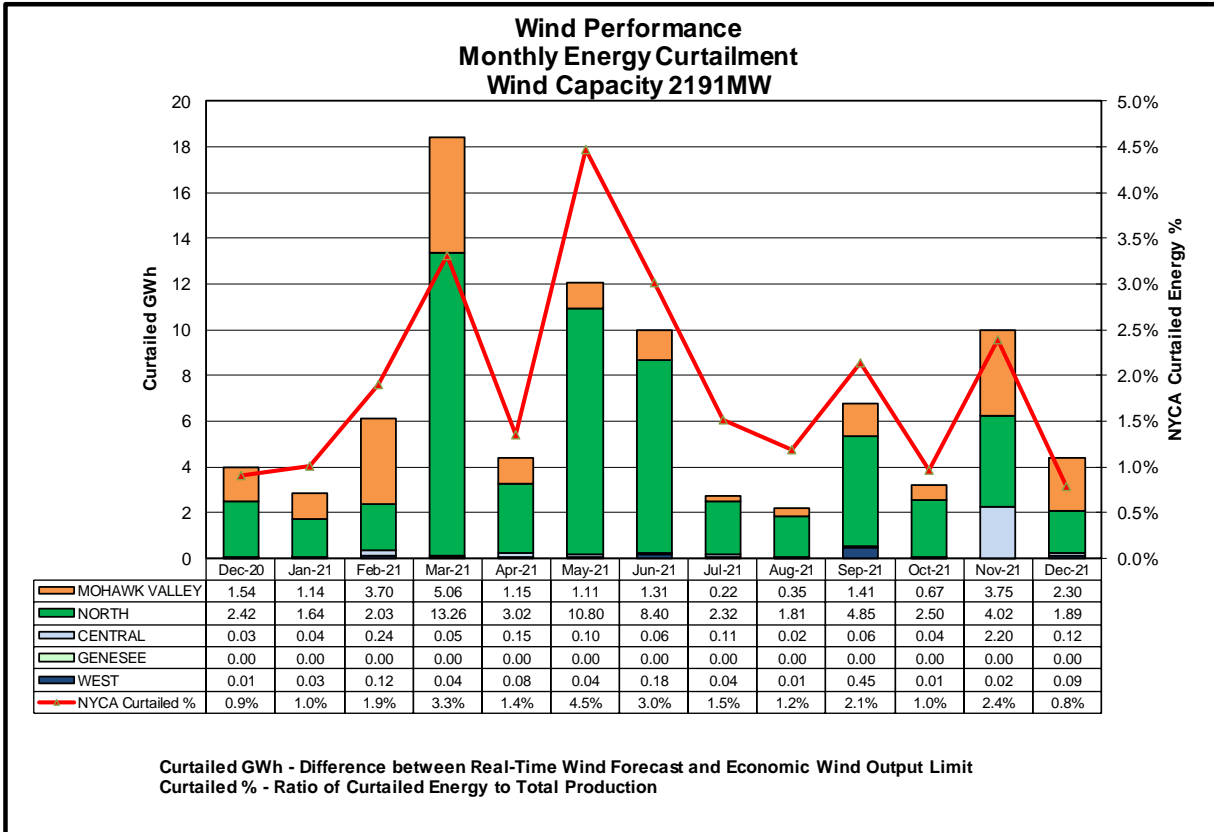
### Wind Forecast Performance Hour Ahead Percent Error

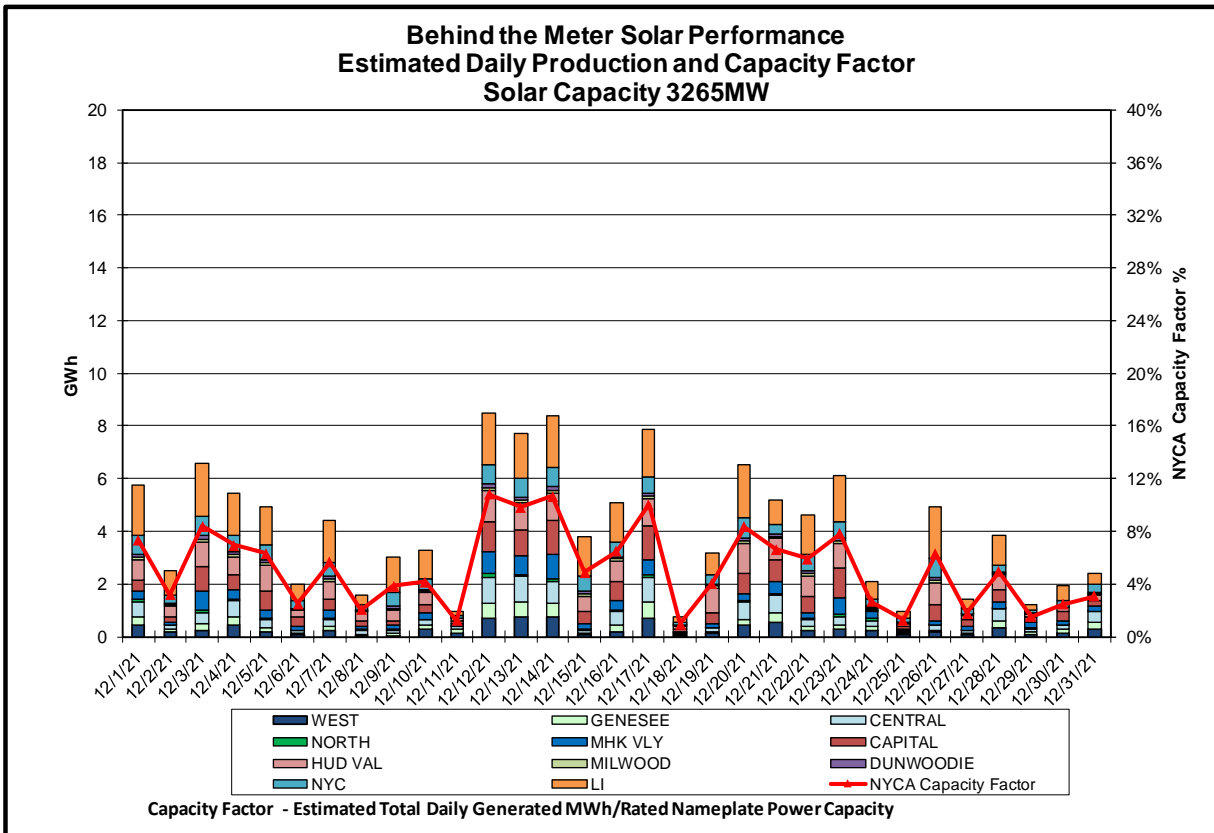
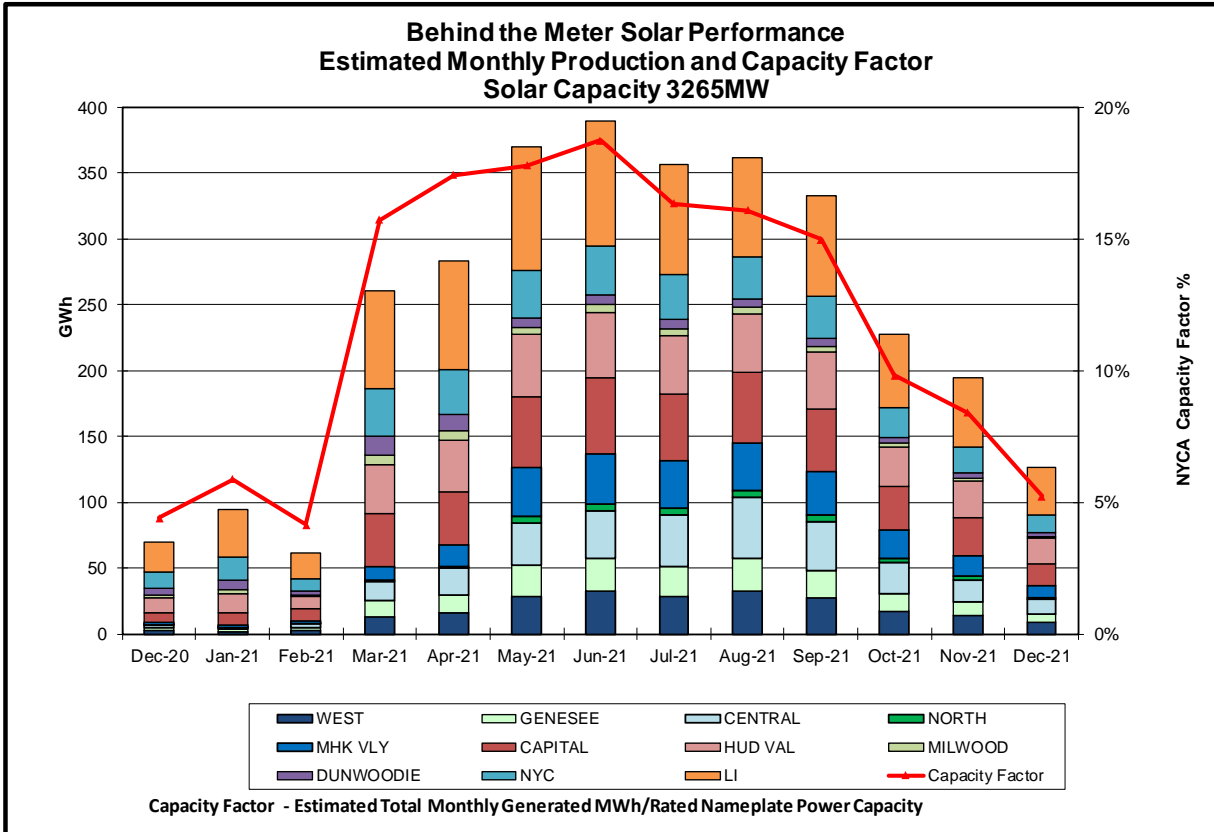


**MAE Forecast** - Avg |actual wind generation - hour ahead forecast wind generation| / Wind Capacity  
**MAE Persistence** - Avg |actual wind generation - hour ahead actual wind generation| / Wind Capacity  
**Bias** - Avg (actual wind generation - hour ahead forecast wind generation) / Wind Capacity

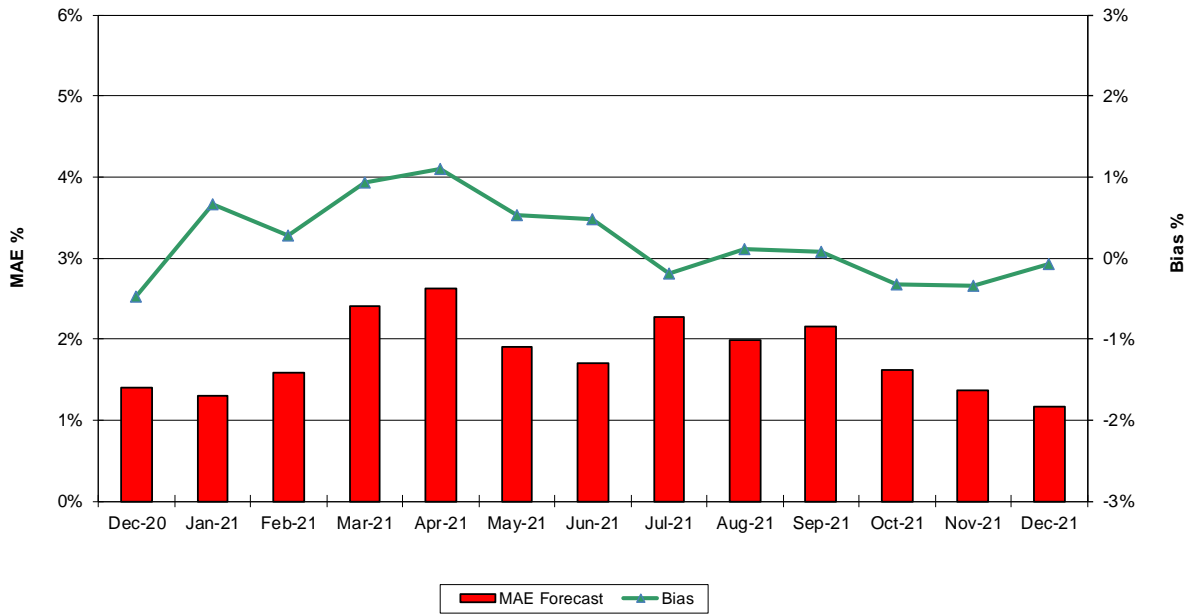






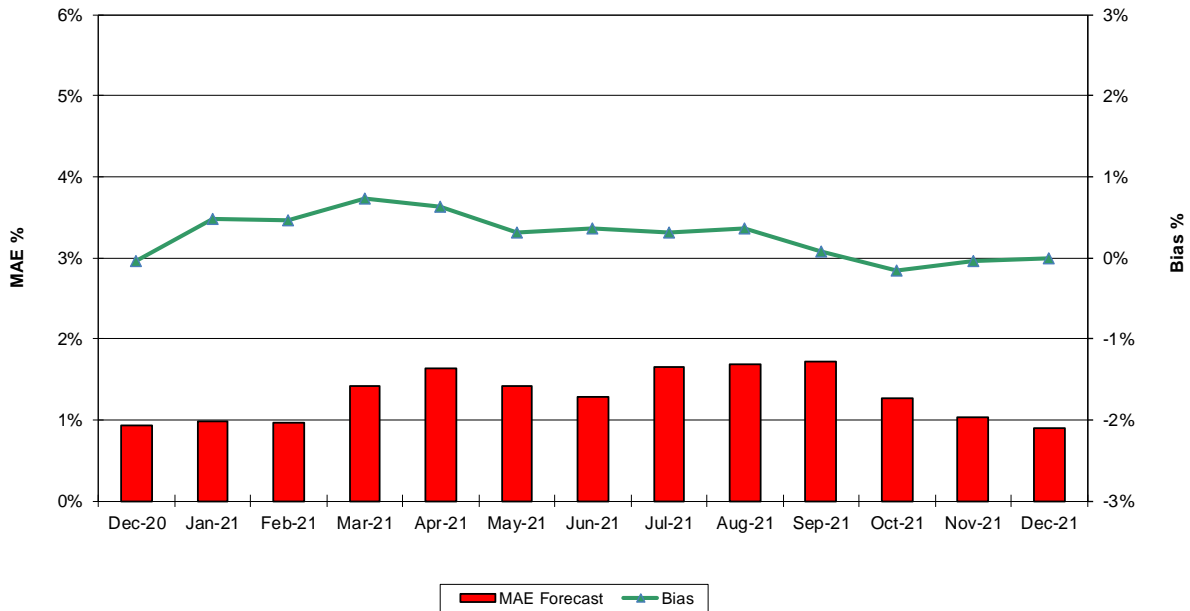


### Behind the Meter Solar Forecast Performance Day Ahead Percent Error

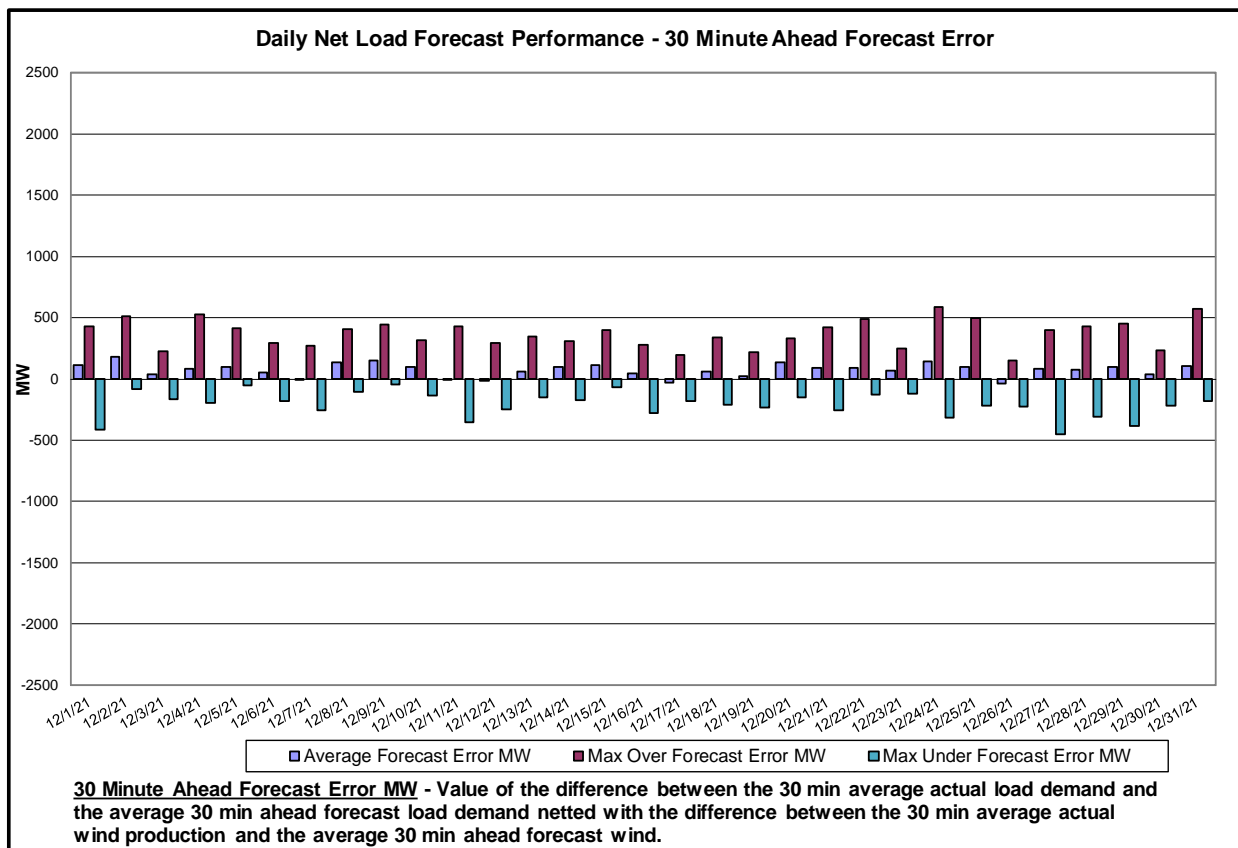
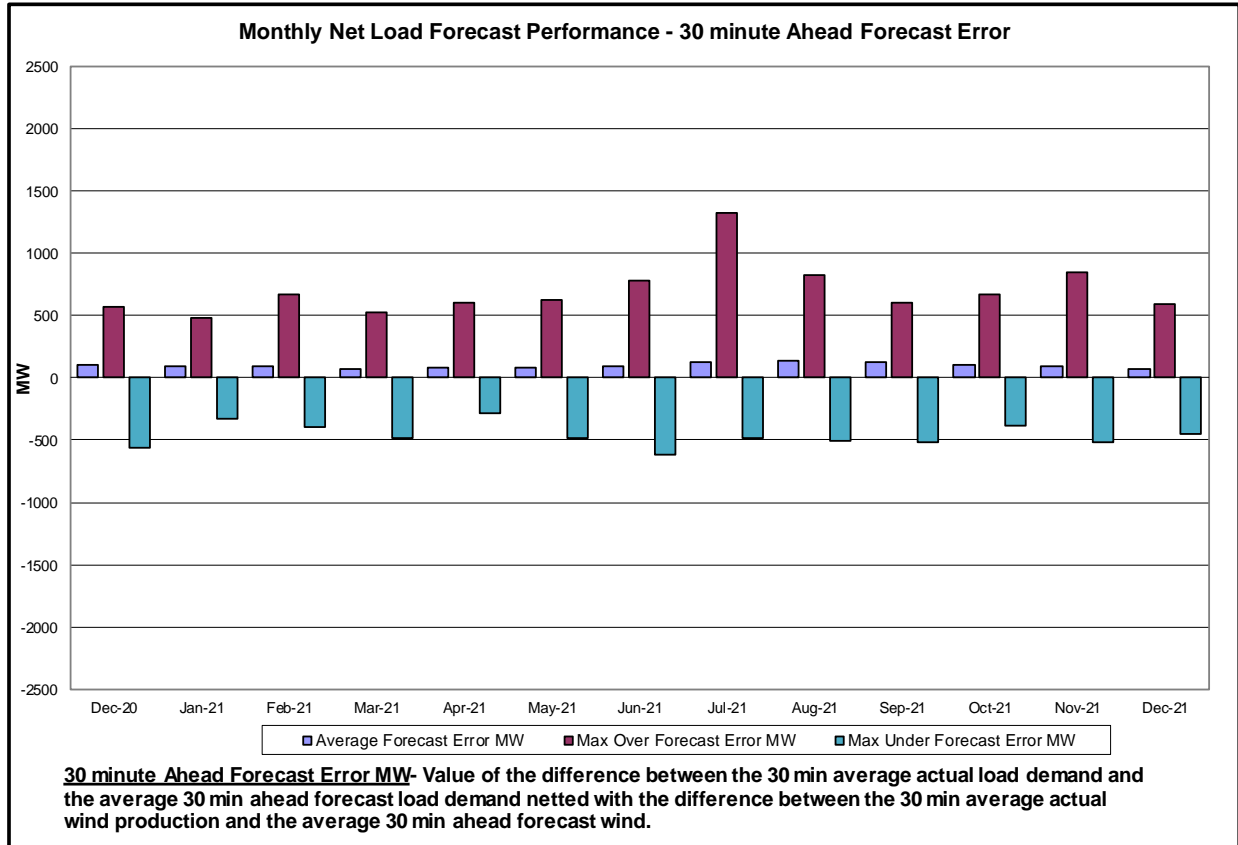


**MAE Forecast** - Avg |est. actual solar generation - Day Ahead forecast solar generation| / Solar Capacity  
**Bias** - Avg (est. actual solar generation - Day Ahead forecast solar generation) / Solar Capacity

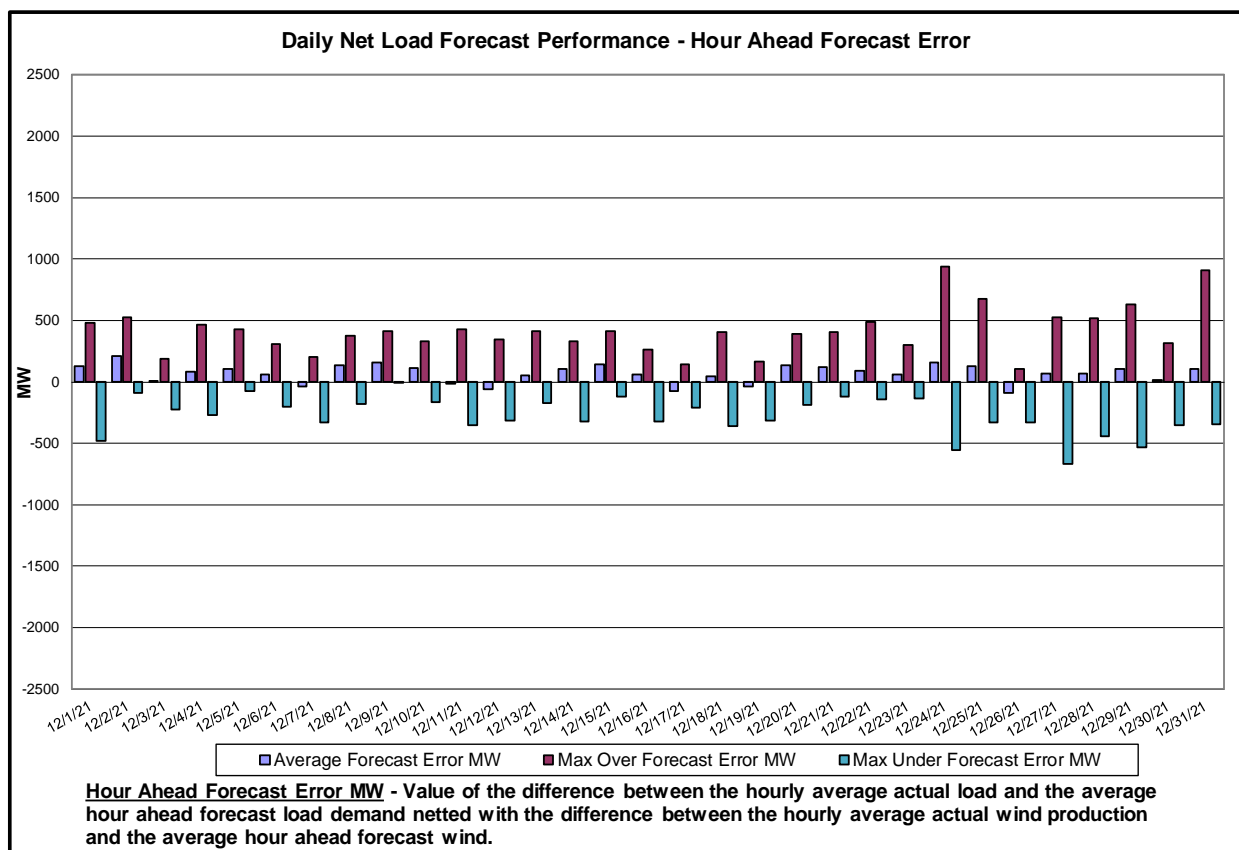
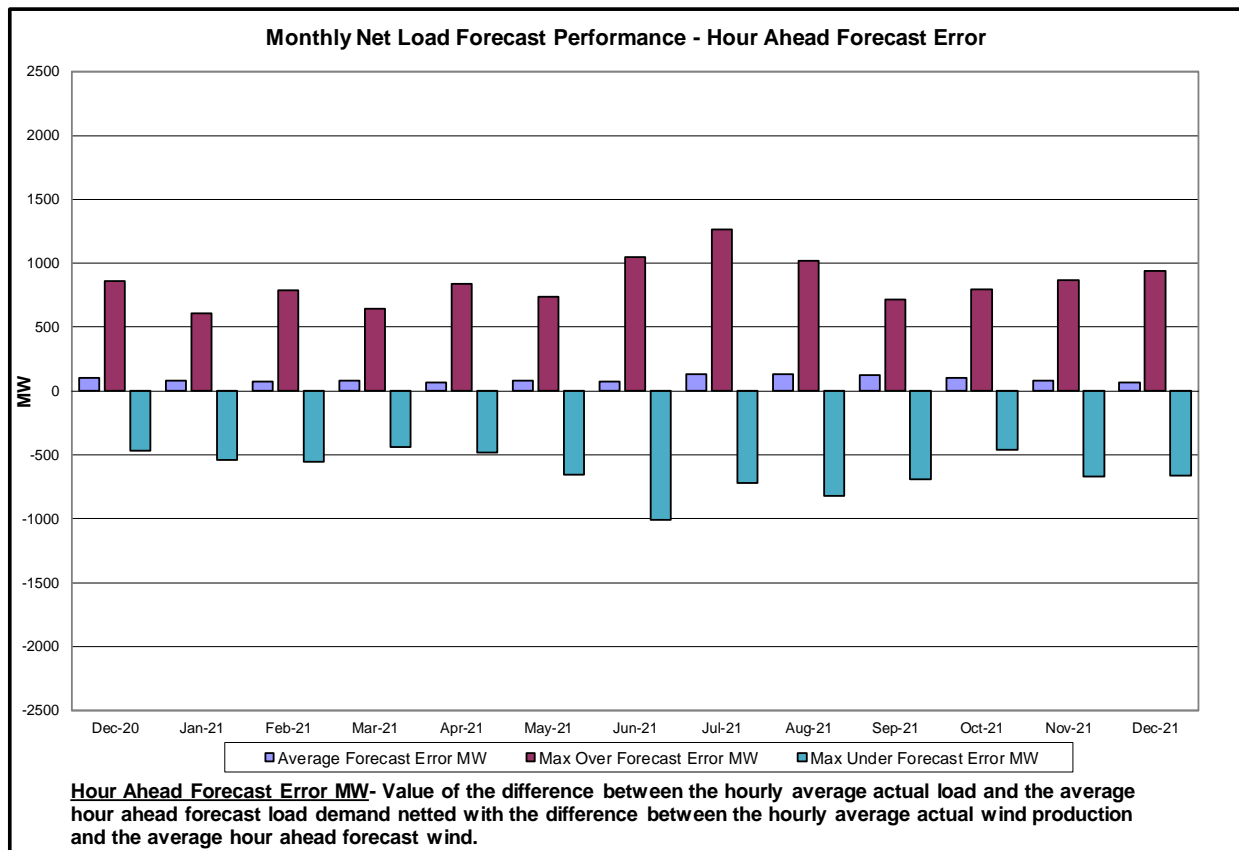
### Behind the Meter Solar Forecast Performance Hour Ahead Percent Error

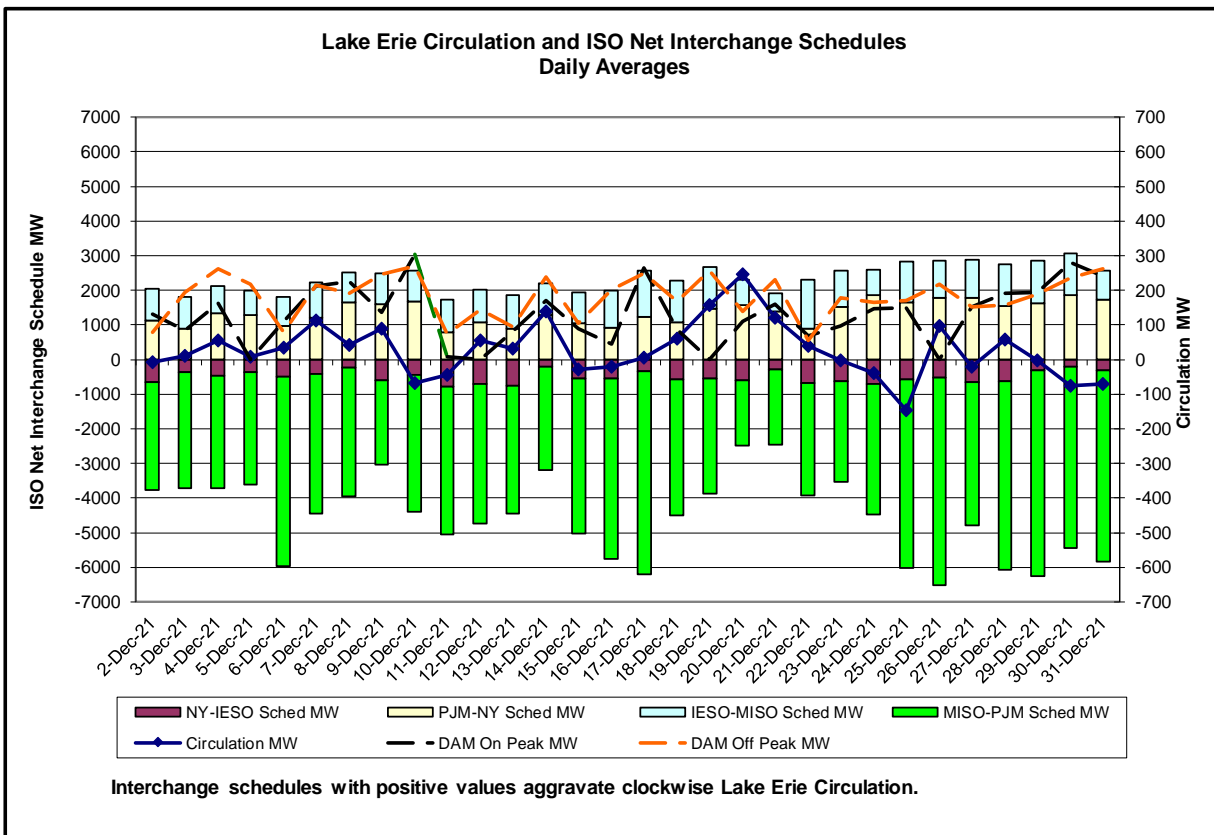
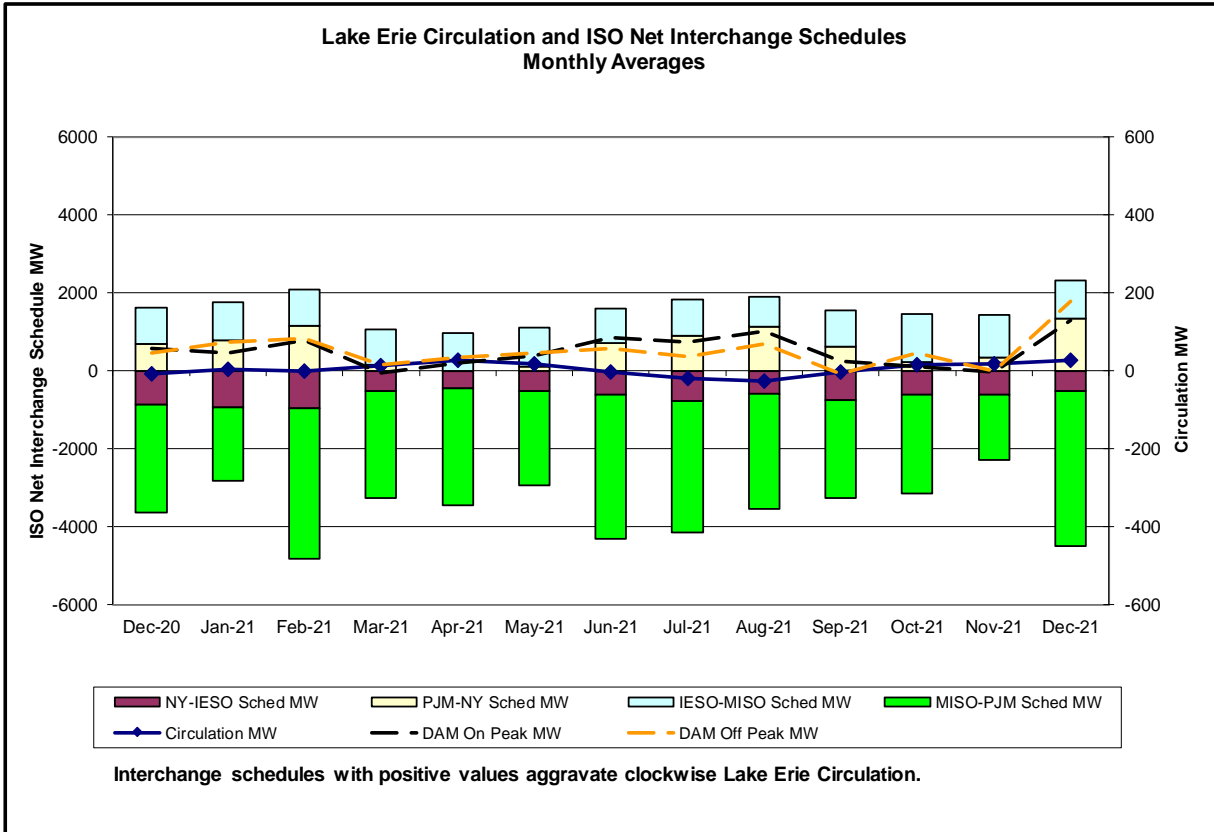


**MAE Forecast** - Avg |est. actual solar generation - Hour Ahead forecast solar generation| / Solar Capacity  
**Bias** - Avg (est. actual solar generation - Hour Ahead forecast solar generation) / Solar Capacity

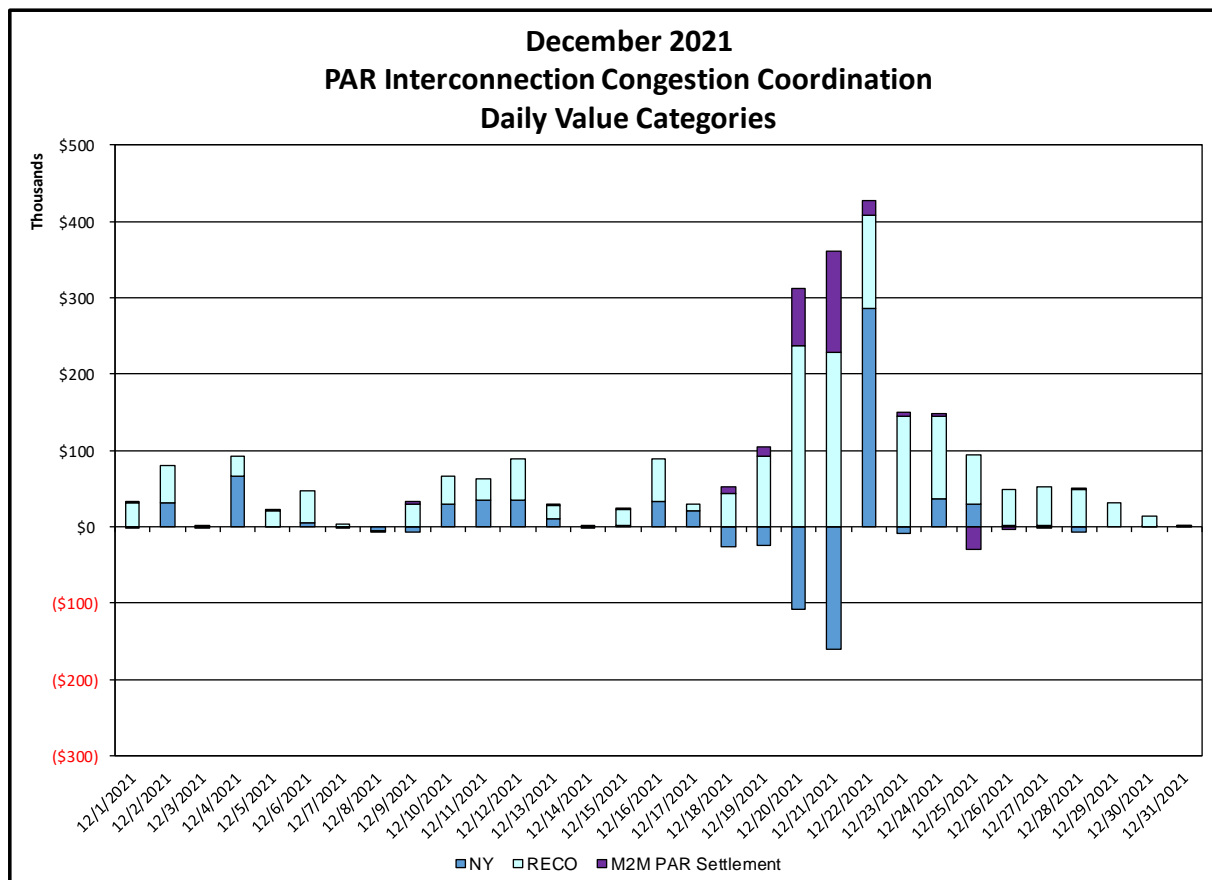
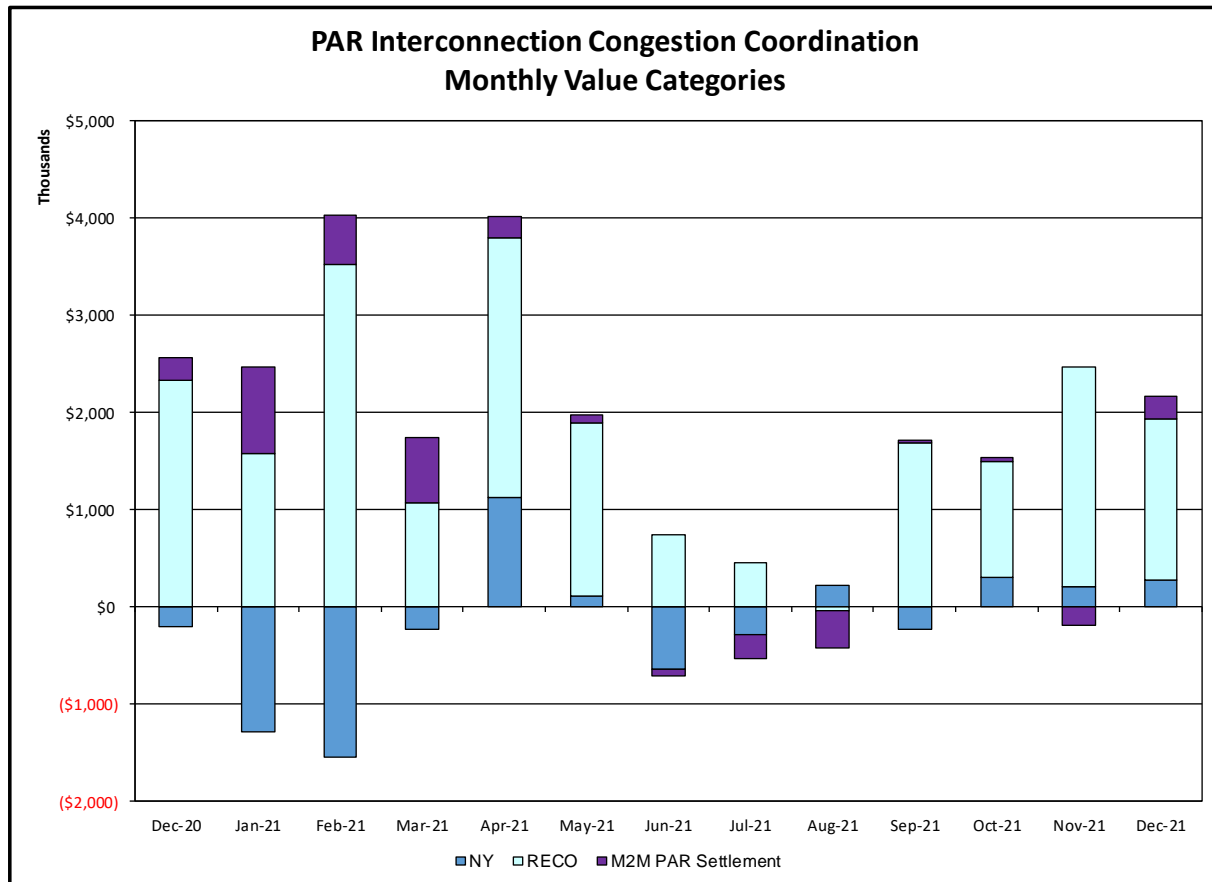




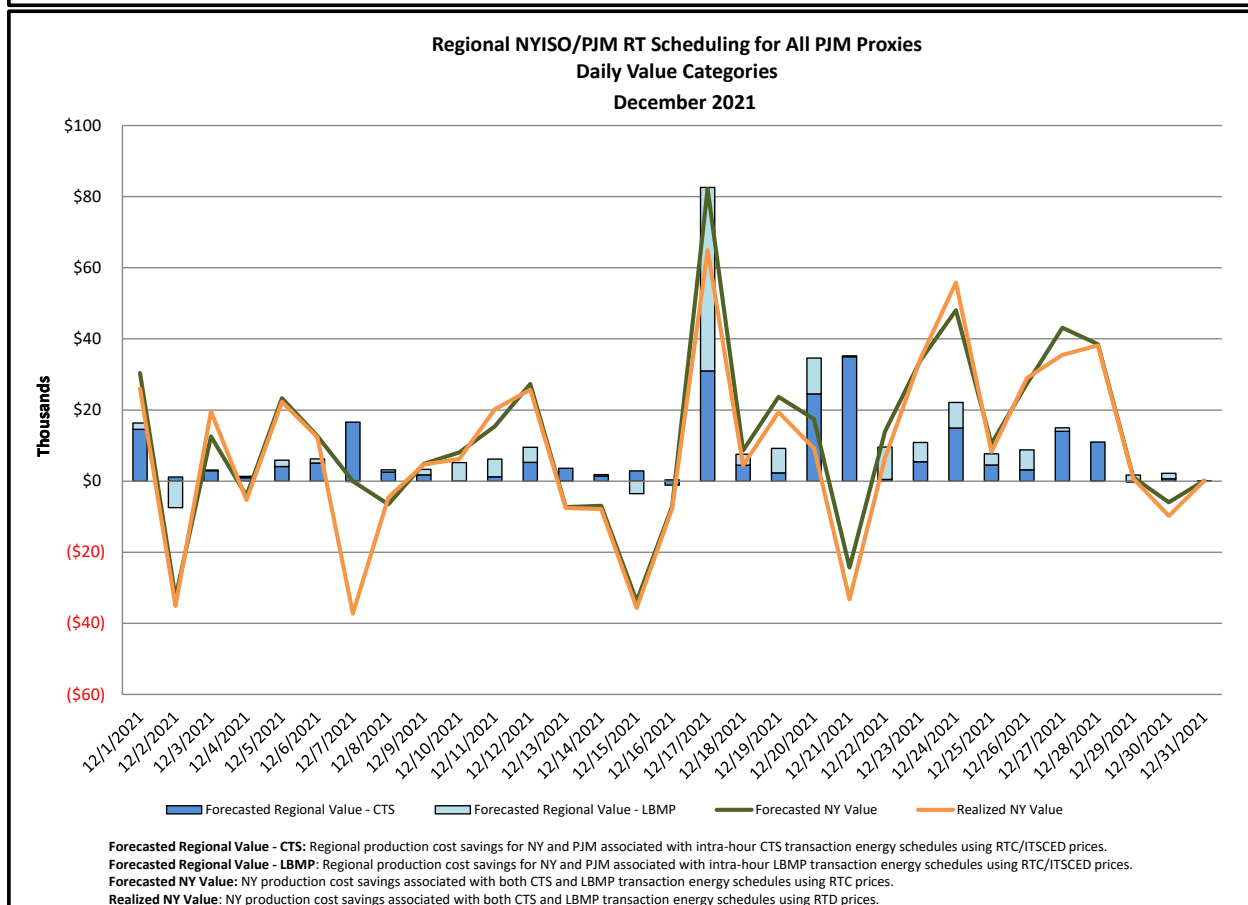
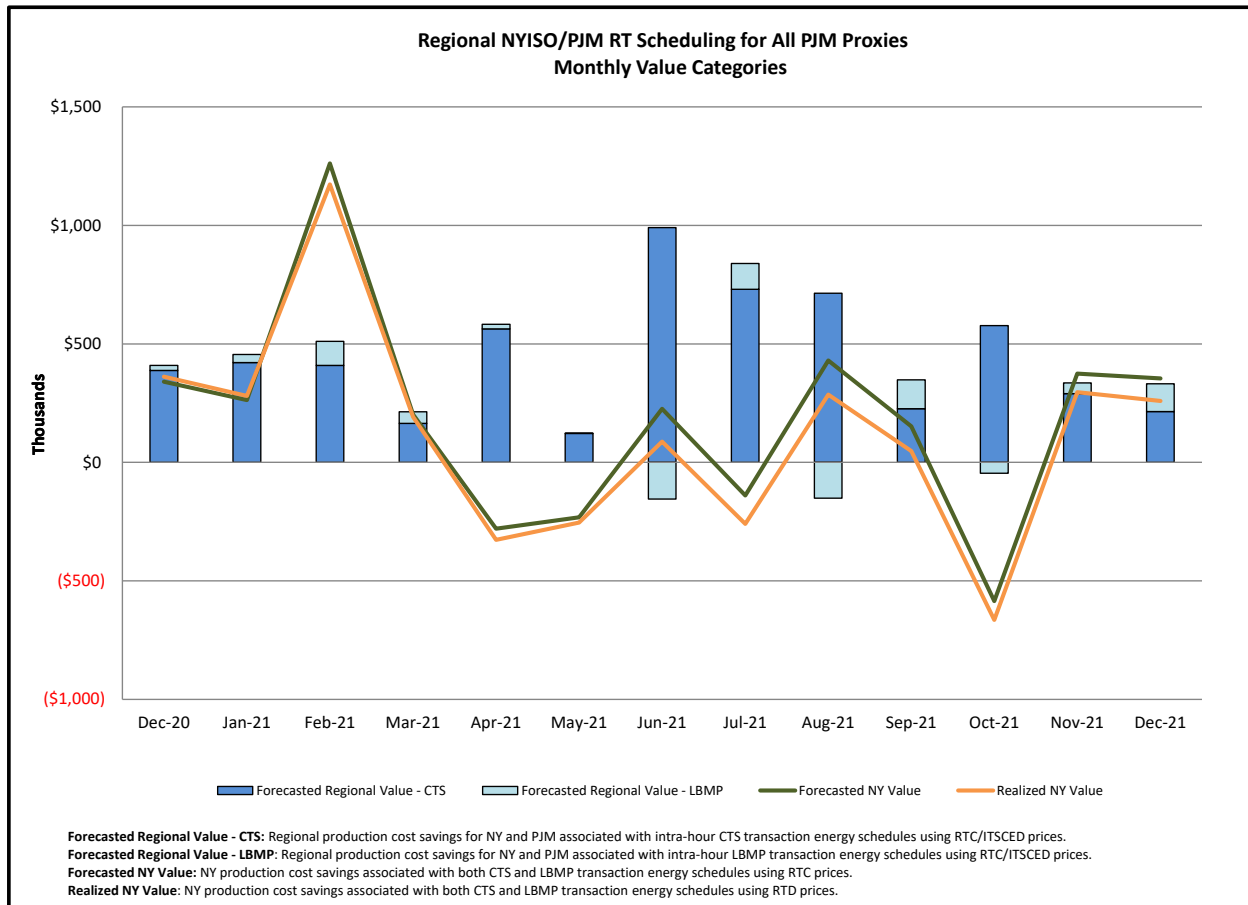




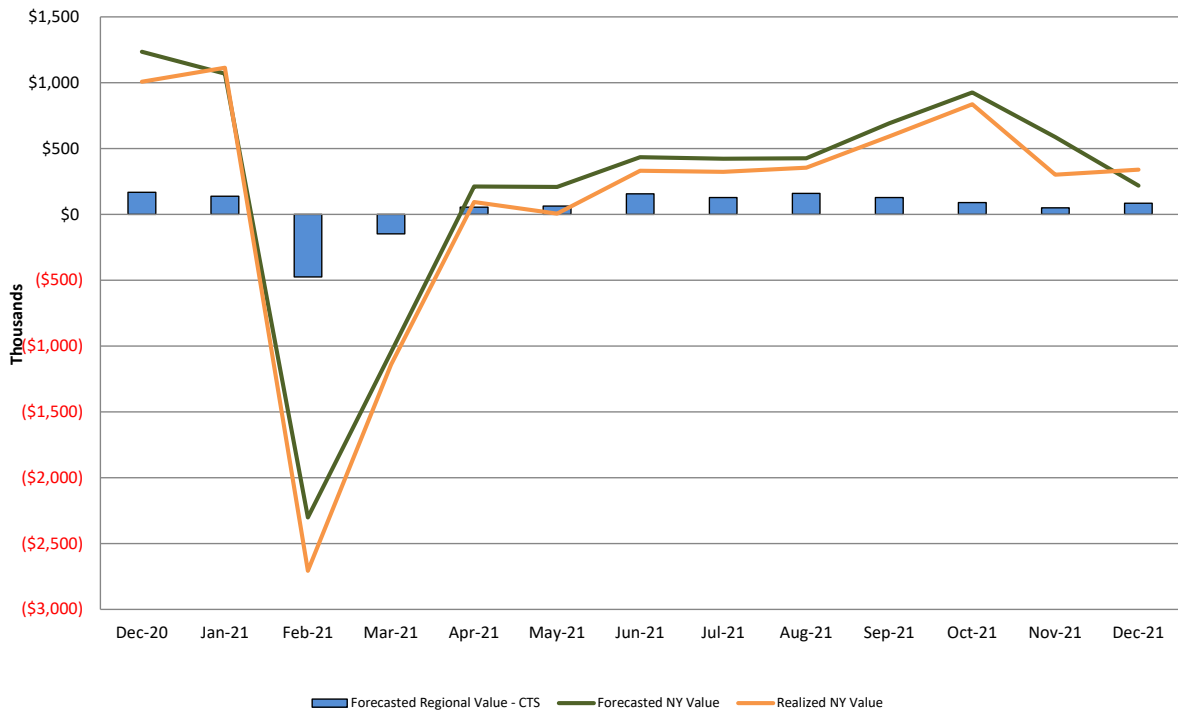
## Broader Regional Market Performance Metrics



<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.

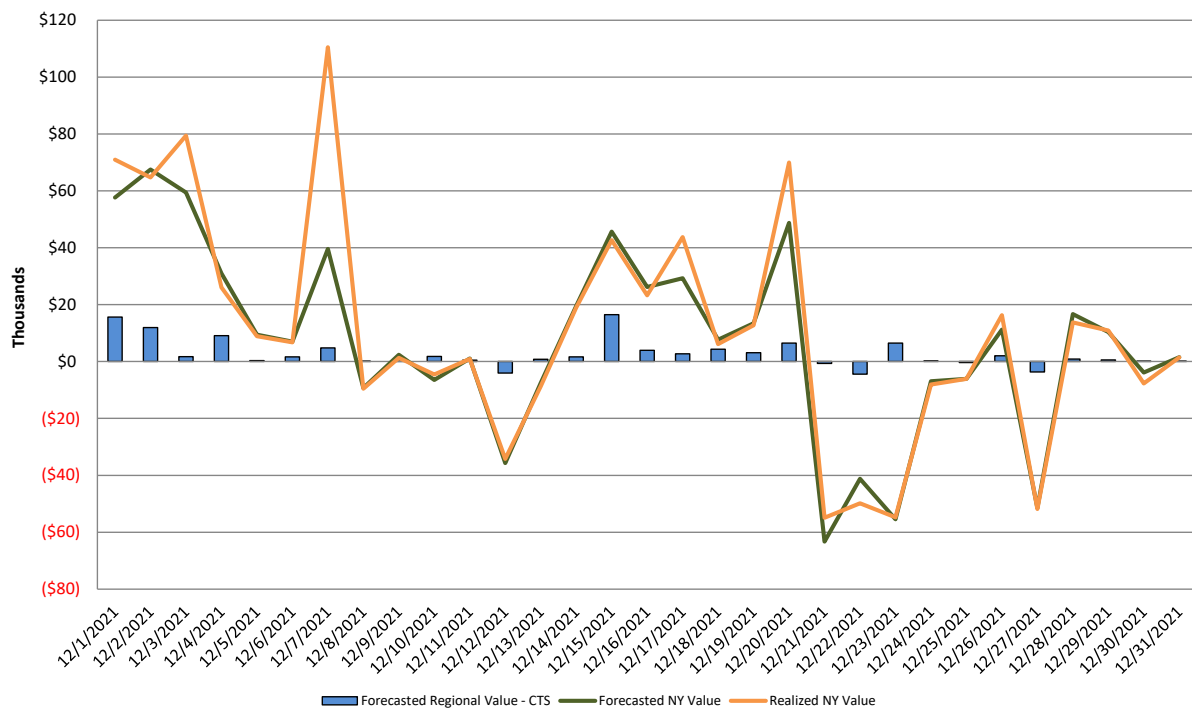


### Regional NYISO/NE RT Scheduling for ISO-NE AC Monthly Value Categories



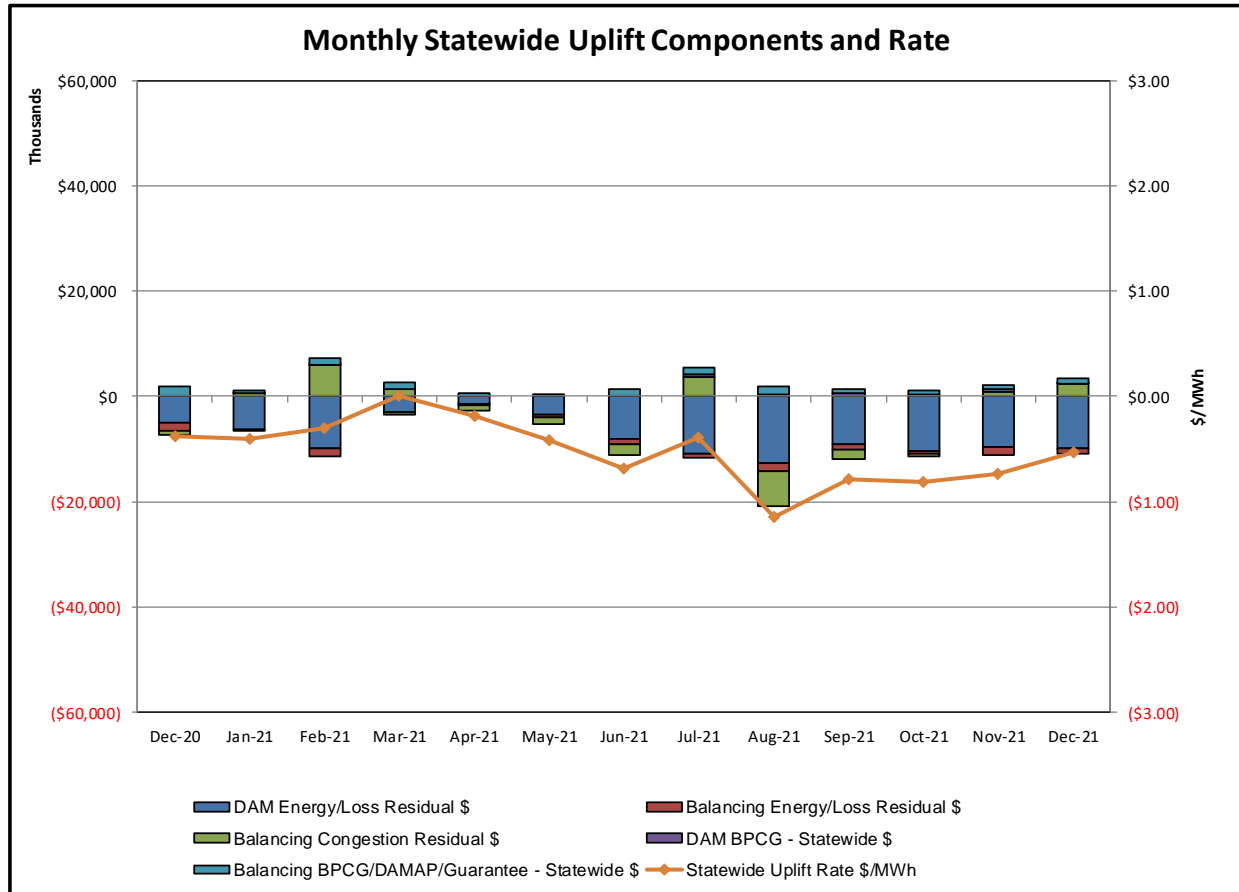
**Forecasted Regional Value - CTS:** Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices.  
**Forecasted NY Value:** NY production cost savings associated with CTS transaction energy schedules using RTC prices.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

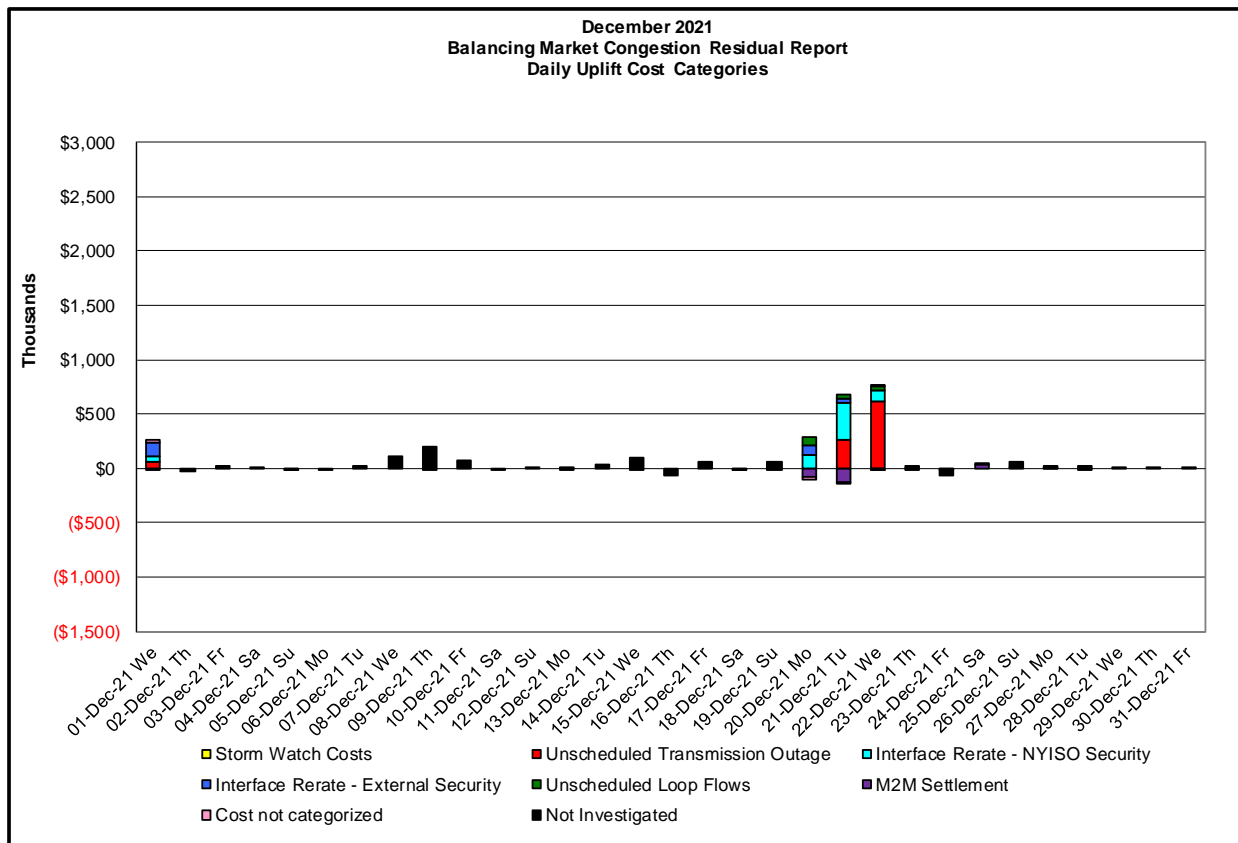
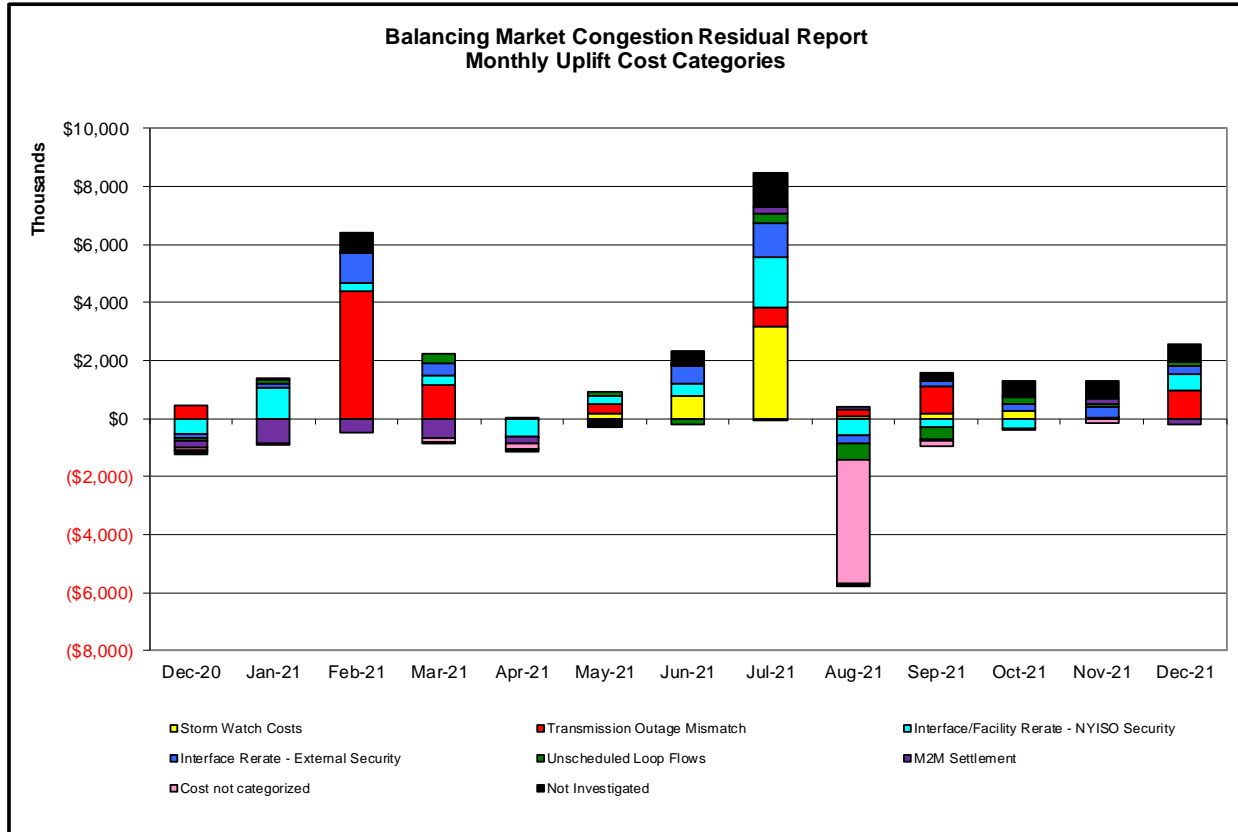
### Regional NYISO/NE RT Scheduling for ISO-NE AC Daily Value Categories December 2021



**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



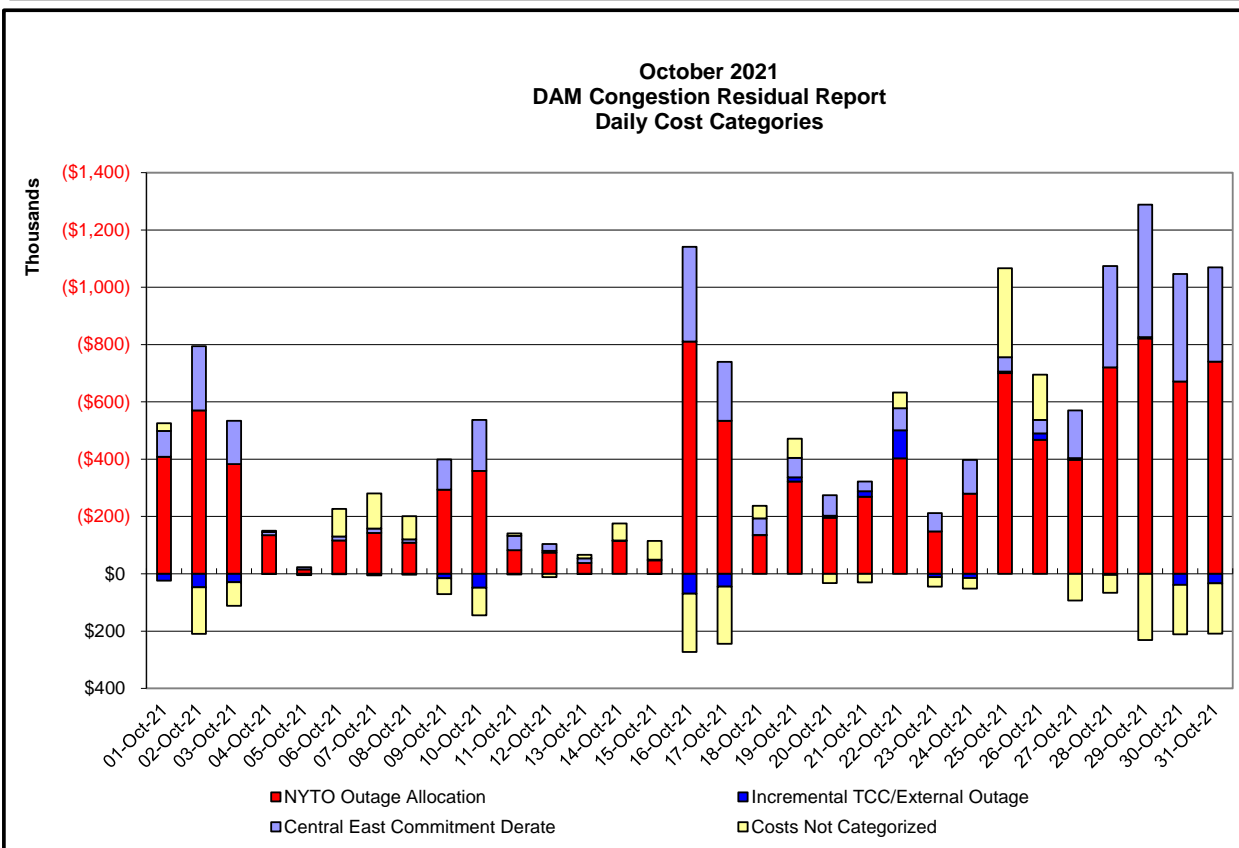
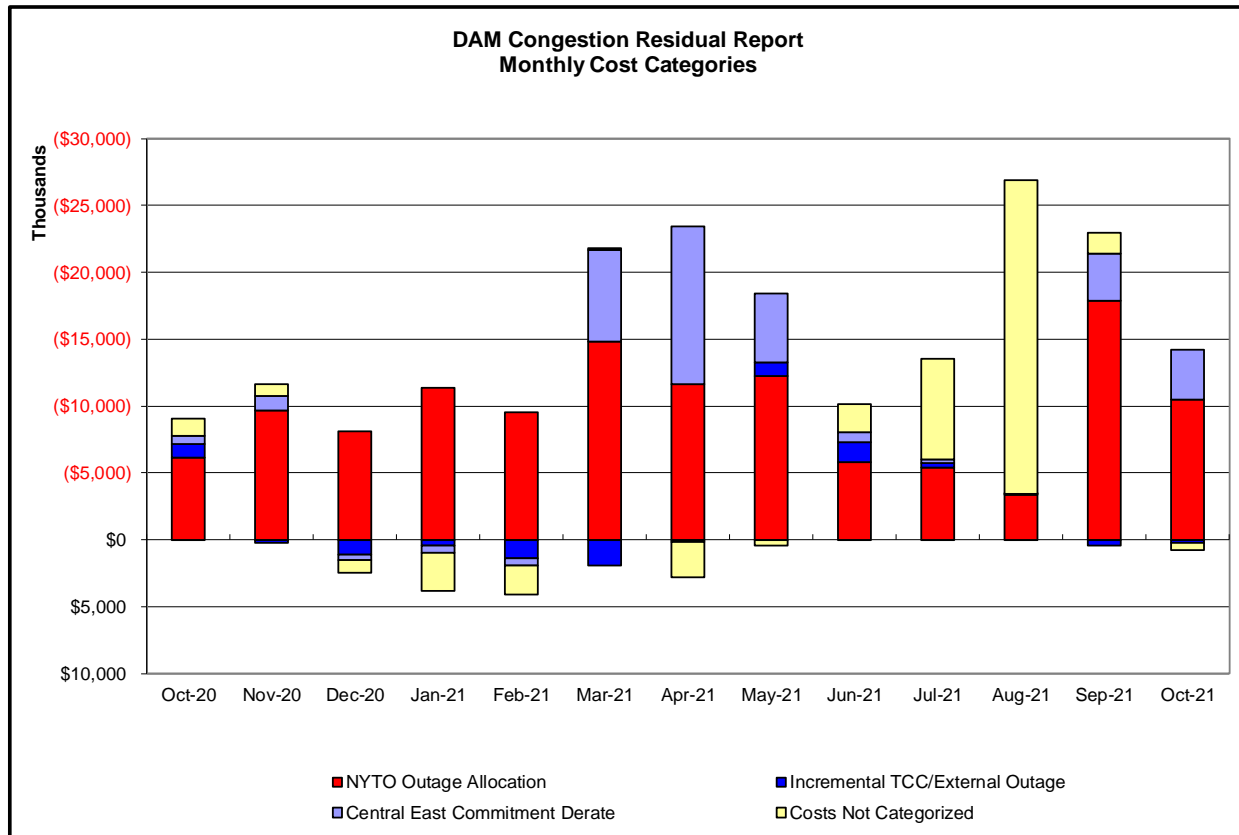




Day's investigated in December: 1, 20, 21, 22			
Event	Date (yyyymmdd)	Hours	Description
	12/1/2021	1, 3, 4	Forced Outage Marcy-Massena 765kV (#MSU1)
	12/1/2021	12	NYCA DNI Ramp Limit
	12/1/2021	4	Derate Adirondack-Porter 230kV (#12) I/o ChasesLake-Porter 230kV (#11)
	12/1/2021	10-13, 21-22	NE_AC-NY Scheduling Limit
	12/1/2021	13	NE_AC Active DNI Ramp Limit
	12/1/2021	0, 1	HQ_Cedars-NY Scheduling Limit
	12/1/2021	13	HQ_Chat Active DNI Ramp Limit
	12/20/2021	9, 18, 21, 23	NYCA DNI Ramp Limit
	12/20/2021	9, 15, 18-23	Derate Central East
	12/20/2021	2, 3, 6	Uprate Central East
	12/20/2021	9, 21-23	NE_AC Active DNI Ramp Limit
	12/20/2021	6	IESO AC Active DNI Ramp Limit
	12/21/2021	17-23	Extended Outage Gilboa-Fraser 345kV (#GF5-35)
	12/21/2021	0, 22	NYCA DNI Ramp Limit
	12/21/2021	0-6, 8	Derate Central East
	12/21/2021	4, 5	NE_AC Active DNI Ramp Limit
	12/21/2021	0, 11, 13-15, 19, 20	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	12/22/2021	0-11	Extended Outage Gilboa-Fraser 345kV (#GF5-35)
	12/22/2021	0-18	Forced Outage Hopatcon-Ramapo 500kV (#5018)
	12/22/2021	9, 10	Derate Gowanus-Goethals 345kV (#26)
	12/22/2021	17-19	Mortimer-Sweden 115kV (#113) I/o Niagara-Sta255 345kV (#NH2)
	12/22/2021	22	Uprate Central East
	12/22/2021	22	IESO AC Active DNI Ramp
	12/22/2021	6	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	12/22/2021	15, 18	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West

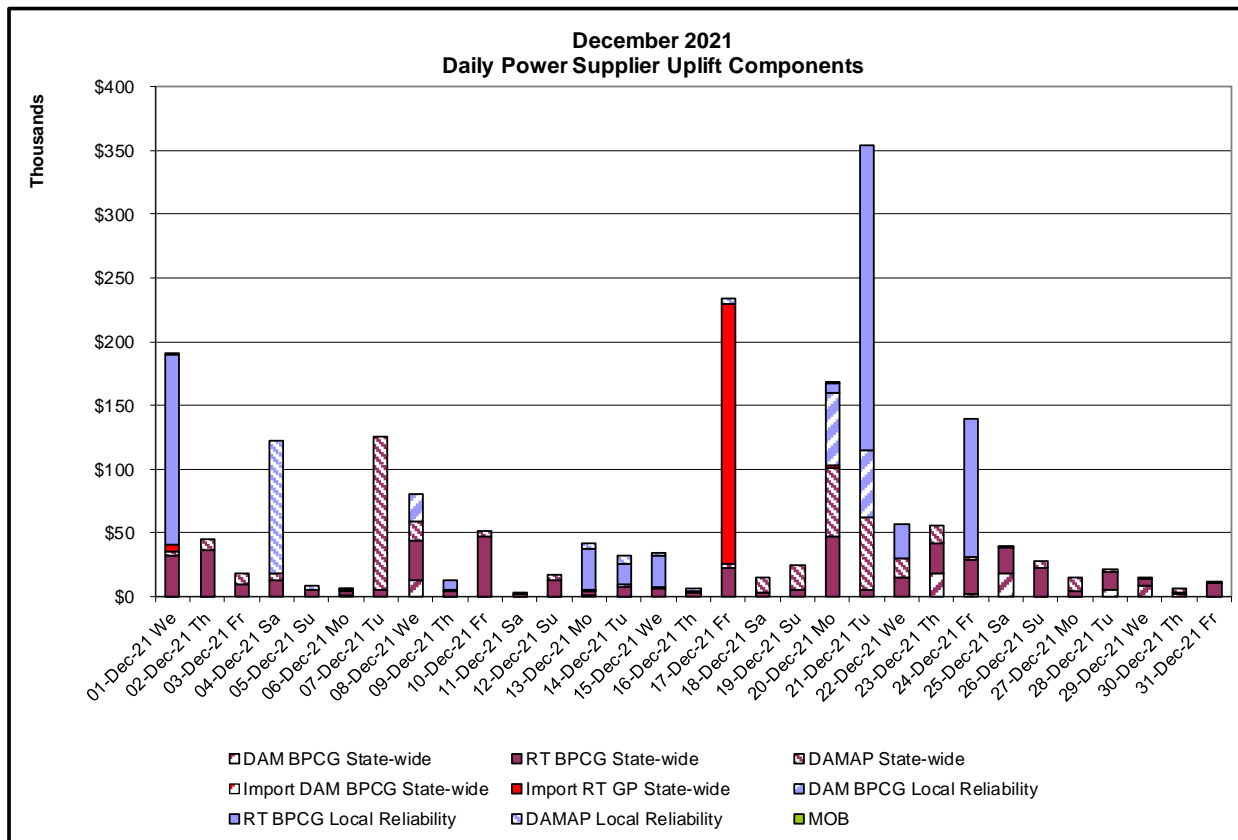
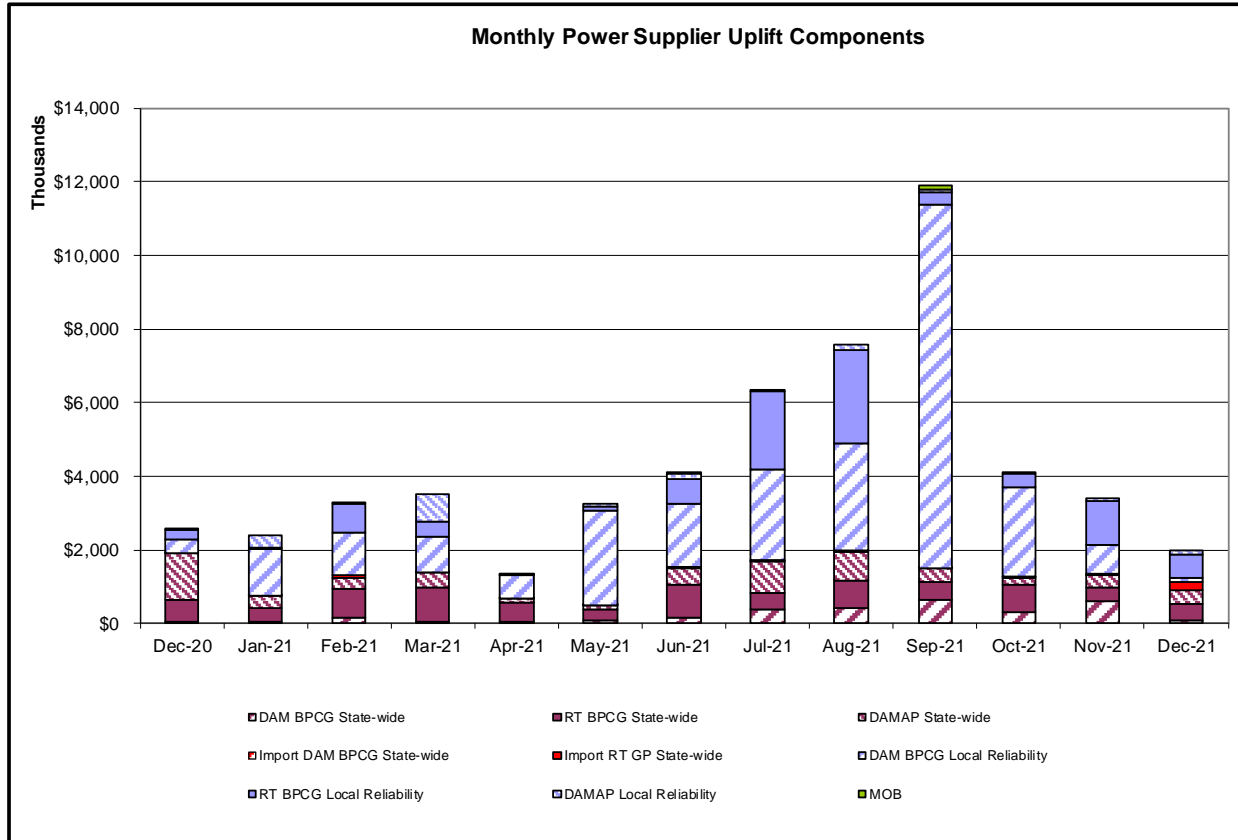
#### Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

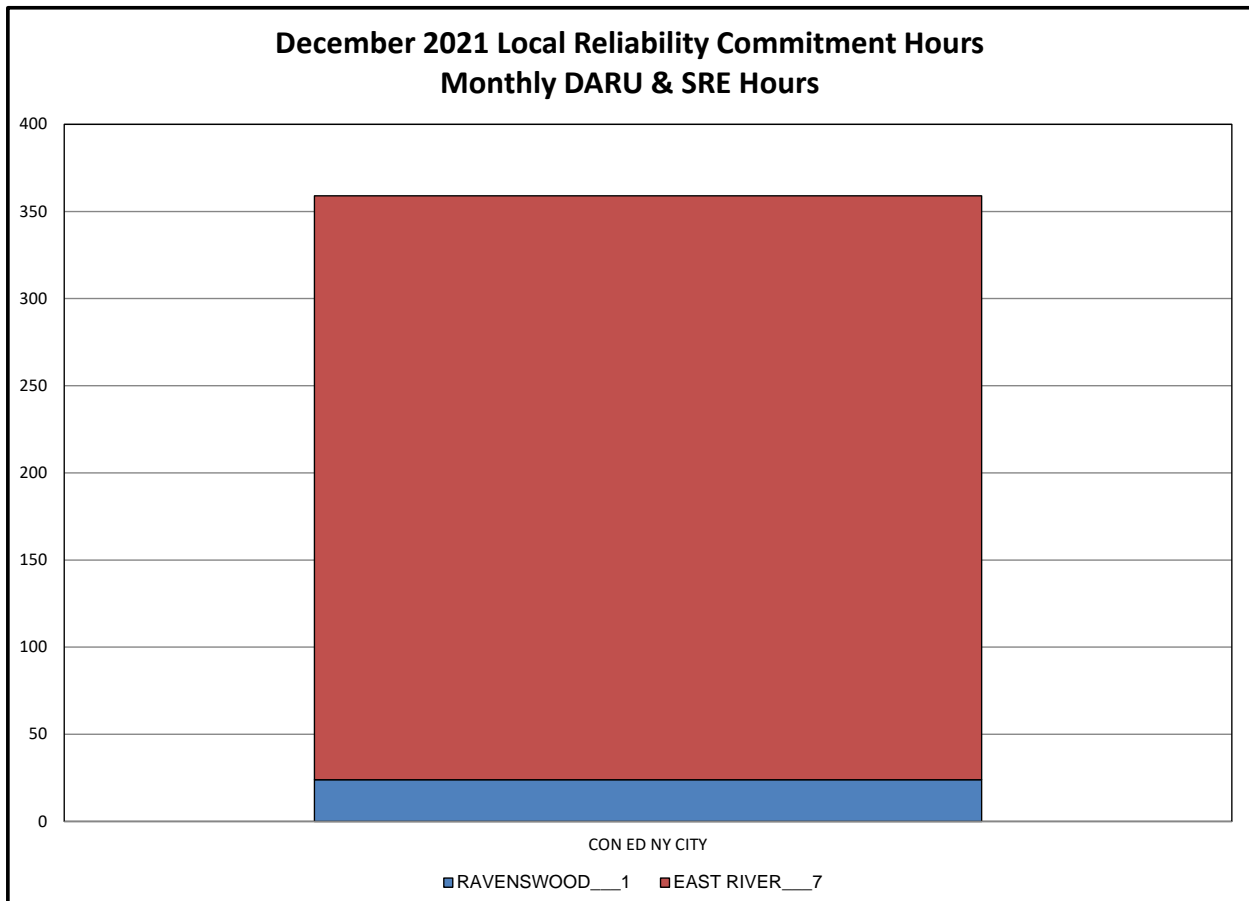
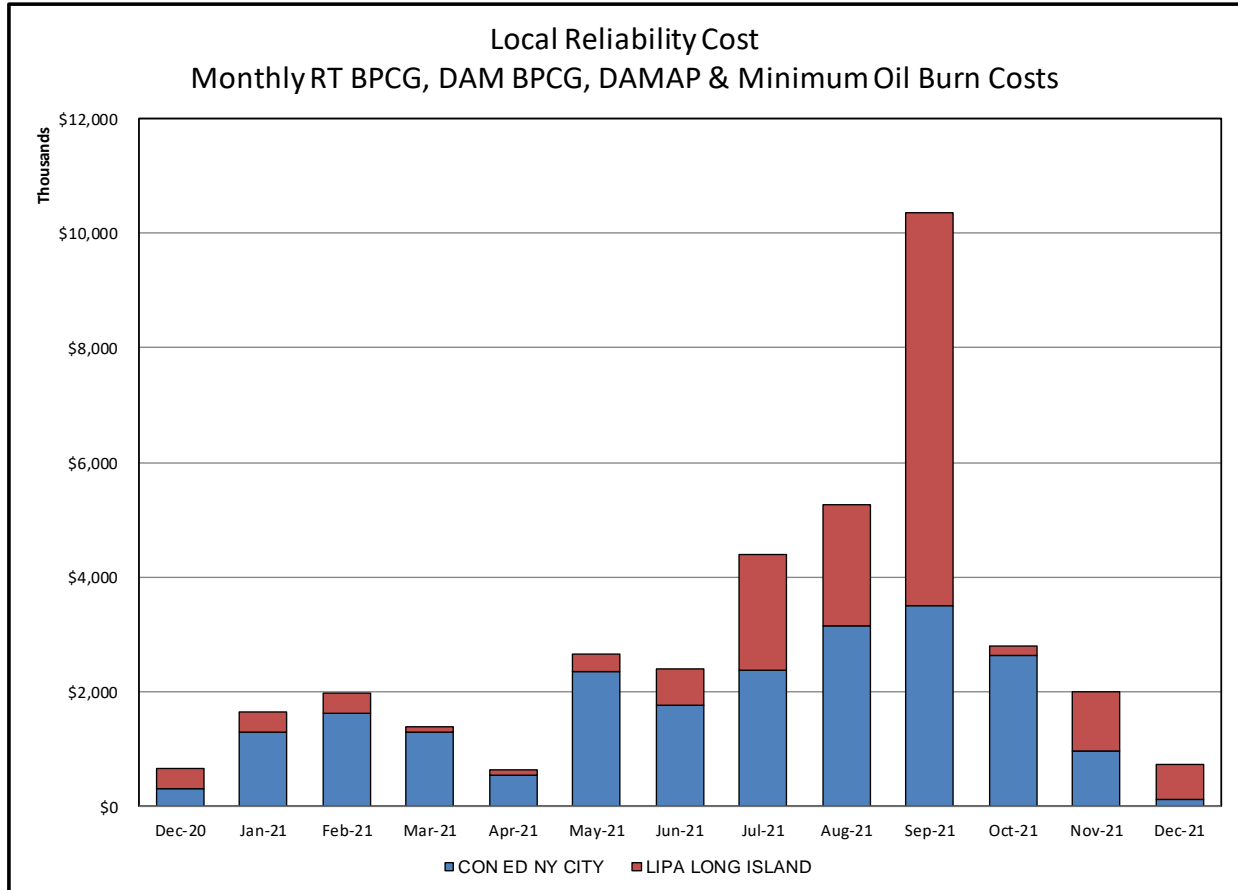
<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations
Transmission Outage Mismatch	Market-wide	Changes in DAM to RTM transfers related to transmission outage mismatch	Forced Line Outage, Unit AVR Outages Early Line 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	
<u>Monthly Balancing Market Congestion Report Assumptions/Notes</u>			
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			

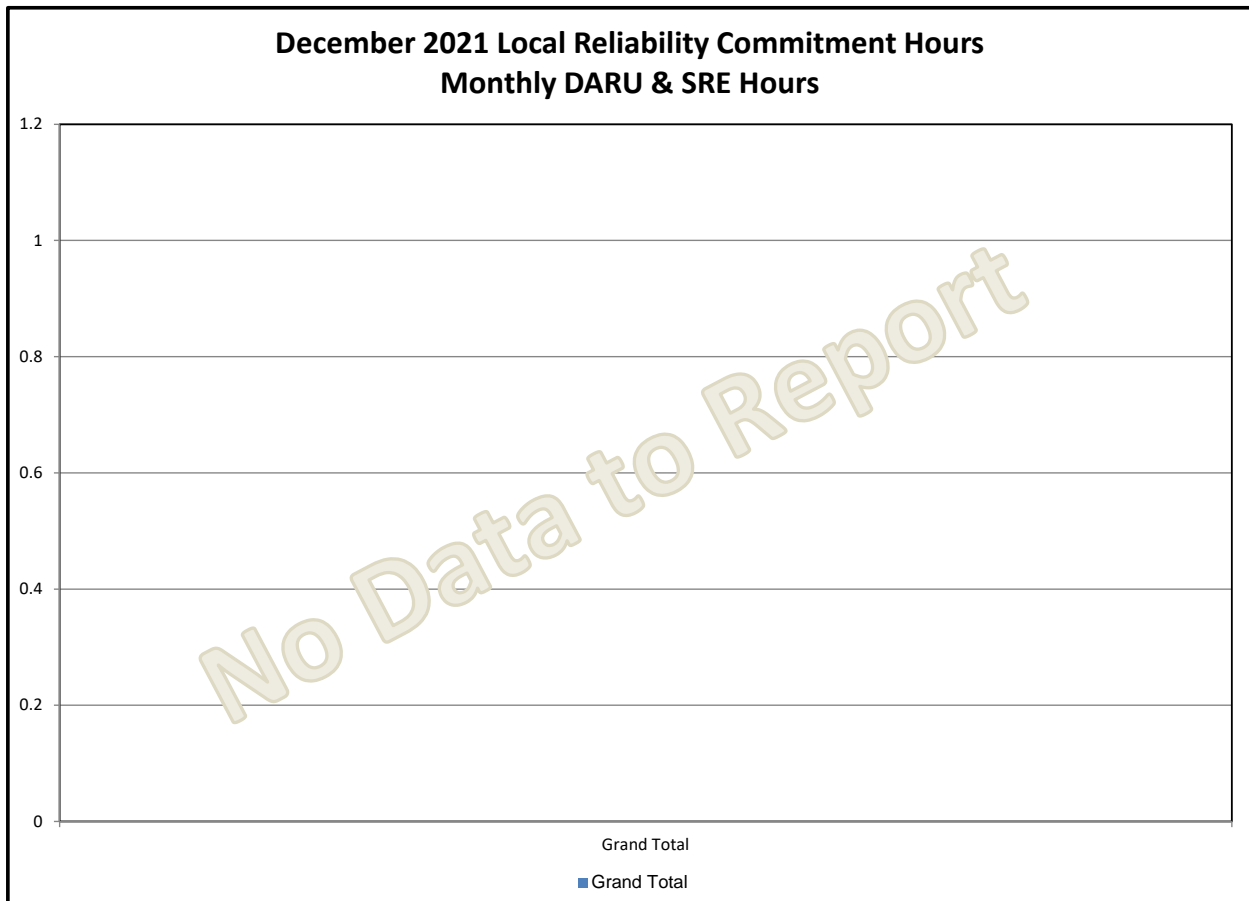
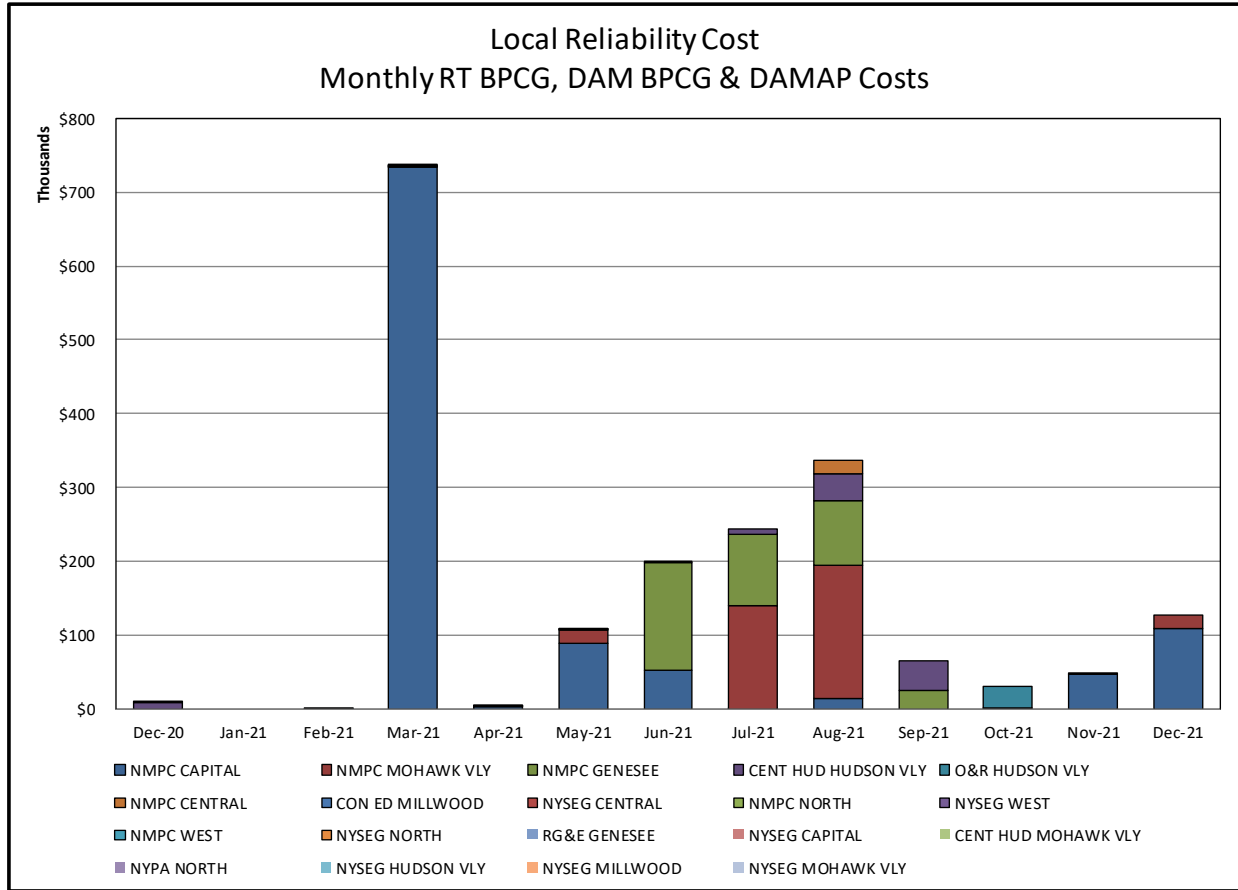


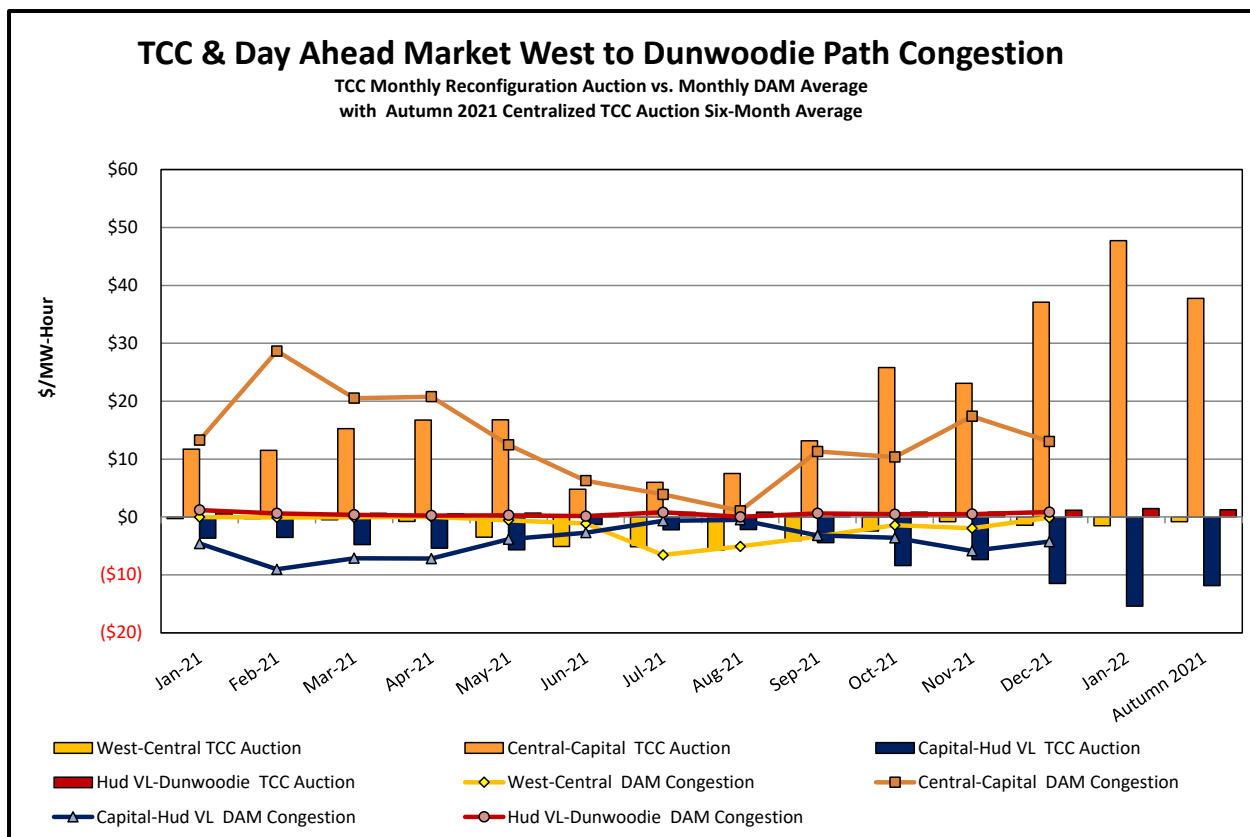
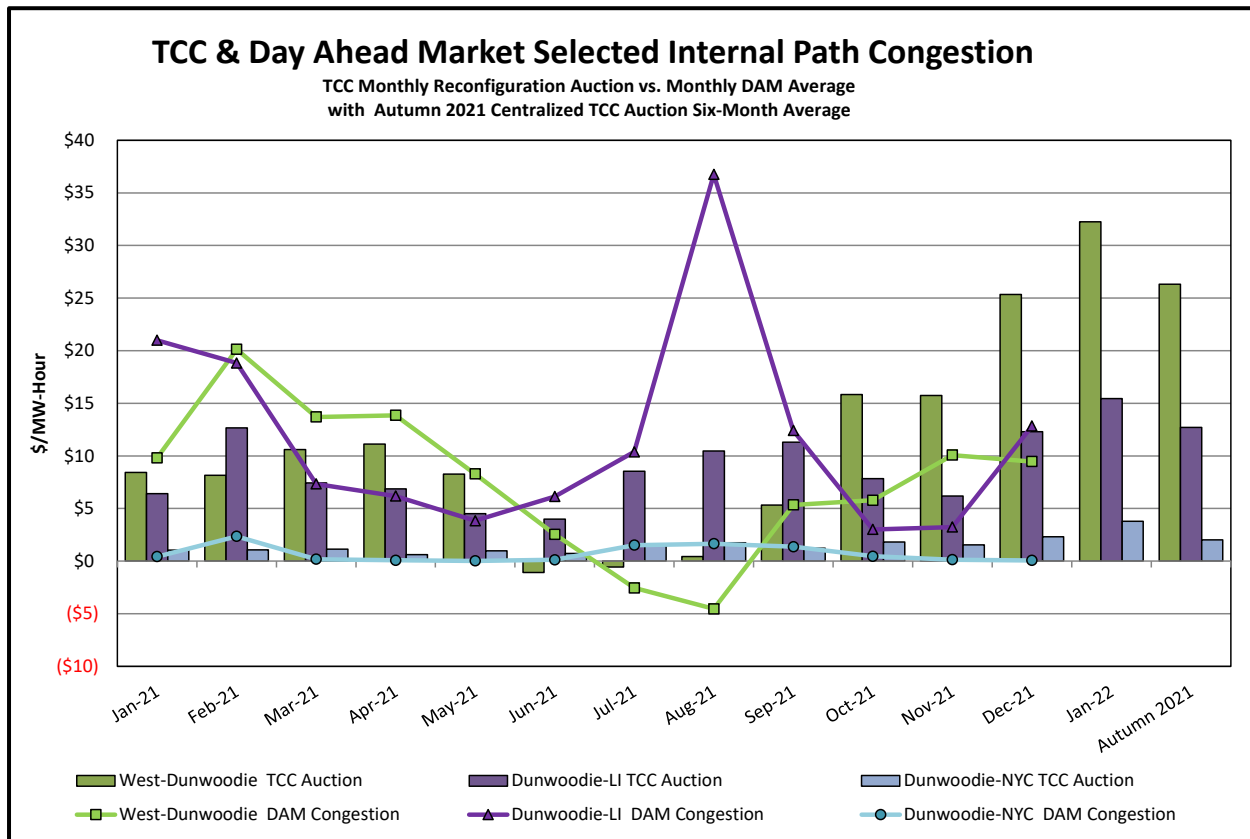
### Day-Ahead Market Congestion Residual Categories

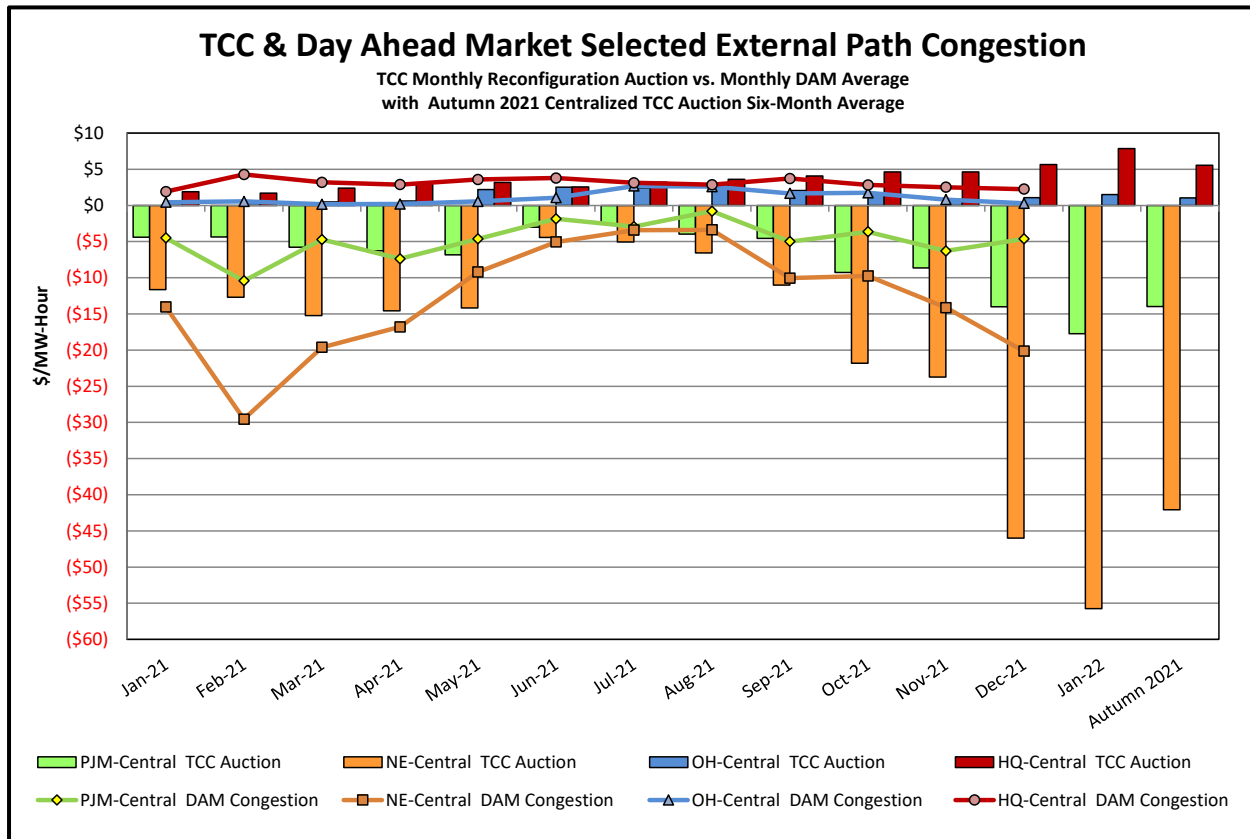
<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
Incremental TCC/External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



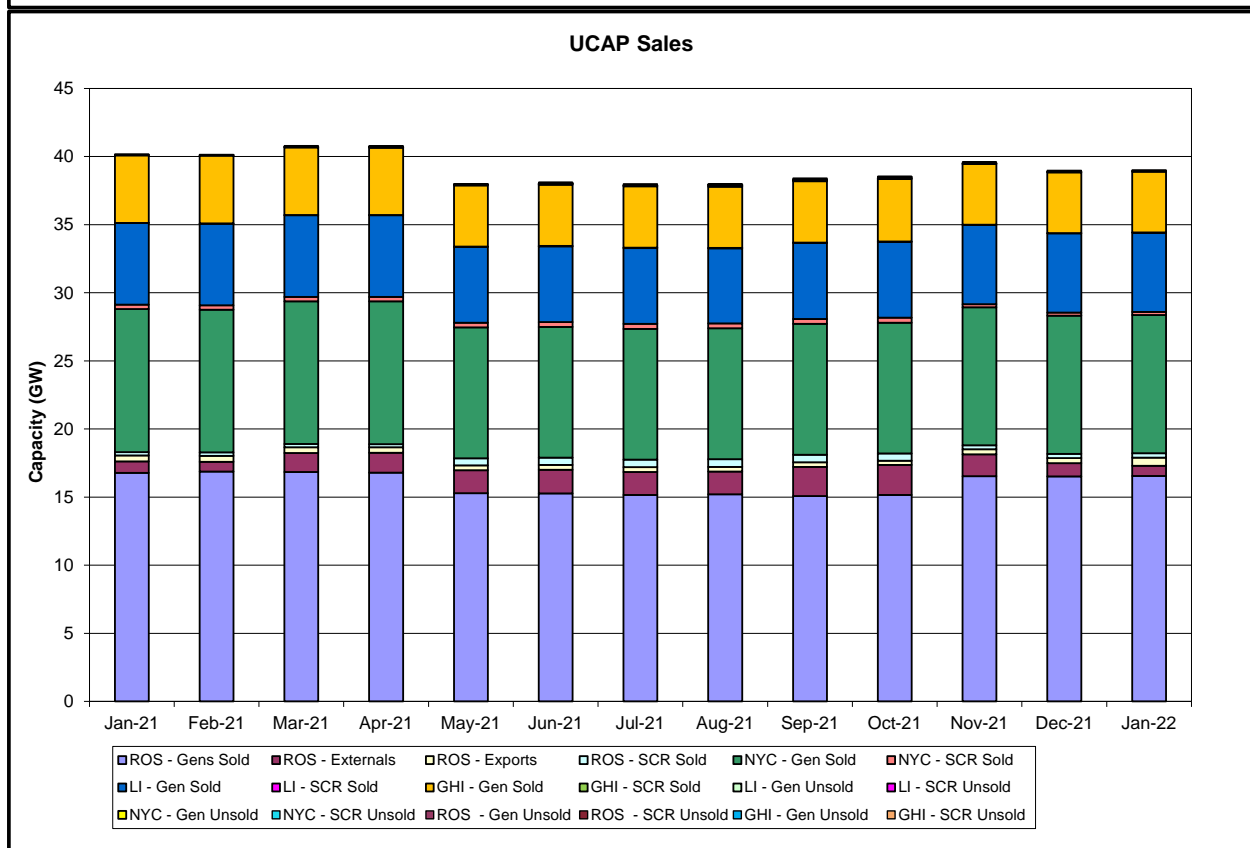
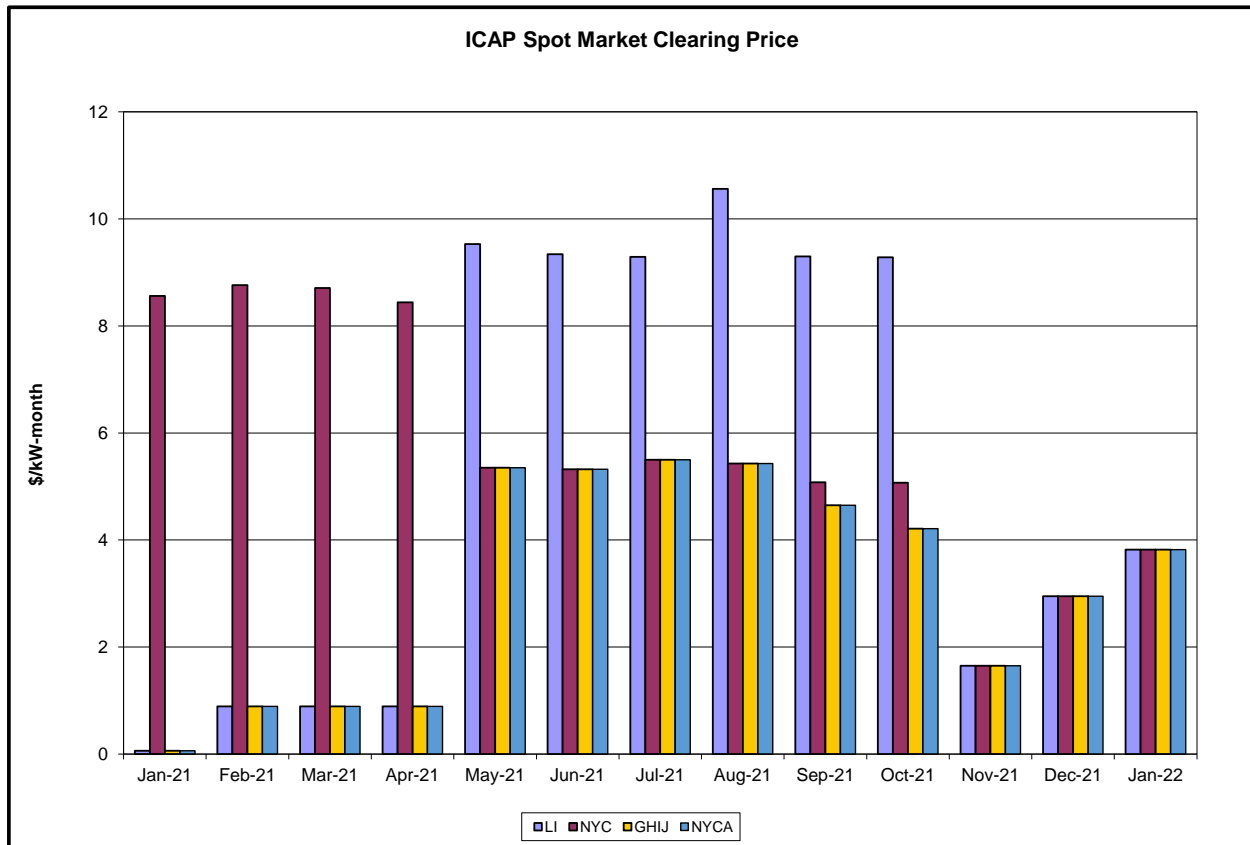










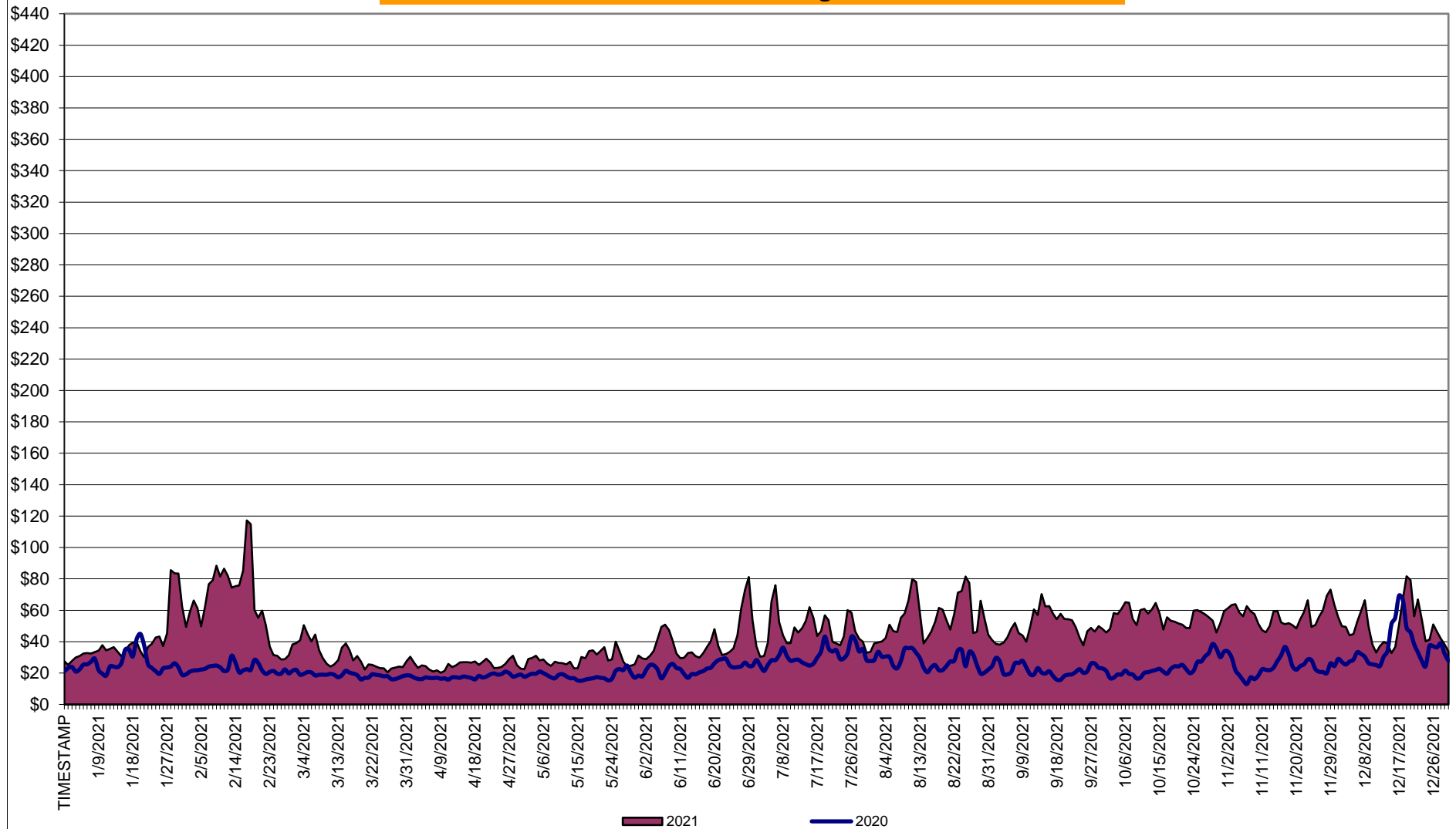


# Market Performance Highlights

## December 2021

- LBMP for December is \$47.99/MWh; lower than \$53.92/MWh in November 2021 and higher than \$33.70/MWh in December 2020.
  - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are lower compared to November.
- December 2021 average year-to-date monthly cost of \$47.59/MWh is an 85% increase from \$25.70/MWh in December 2020.
- Average daily sendout is 408 GWh/day in December; higher than 387 GWh/day in November 2021 and lower than 417 GWh/day in December 2020.
- Natural gas prices and distillate prices are lower compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$3.47/MMBtu, down from \$4.93/MMBtu in November.
  - Natural gas prices are up 25% year-over-year.
  - Jet Kerosene Gulf Coast was \$15.44/MMBtu, down from \$16.34/MMBtu in November.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$15.99/MMBtu, down from \$17.15/MMBtu in November.
  - Distillate prices are up 56.1% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.48)/MWh; higher than (\$0.58)/MWh in November.
    - Local Reliability Share is \$0.05/MWh, lower than \$0.16/MWh in November.
    - Statewide Share is (\$0.53)/MWh, higher than (\$0.74)/MWh in November.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than November.

**Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\***  
**2020 Annual Average \$25.70/MWh**  
**December 2020 YTD Average \$25.70/MWh**  
**December 2021 YTD Average \$47.59/MWh**



\* Excludes ICAP payments.

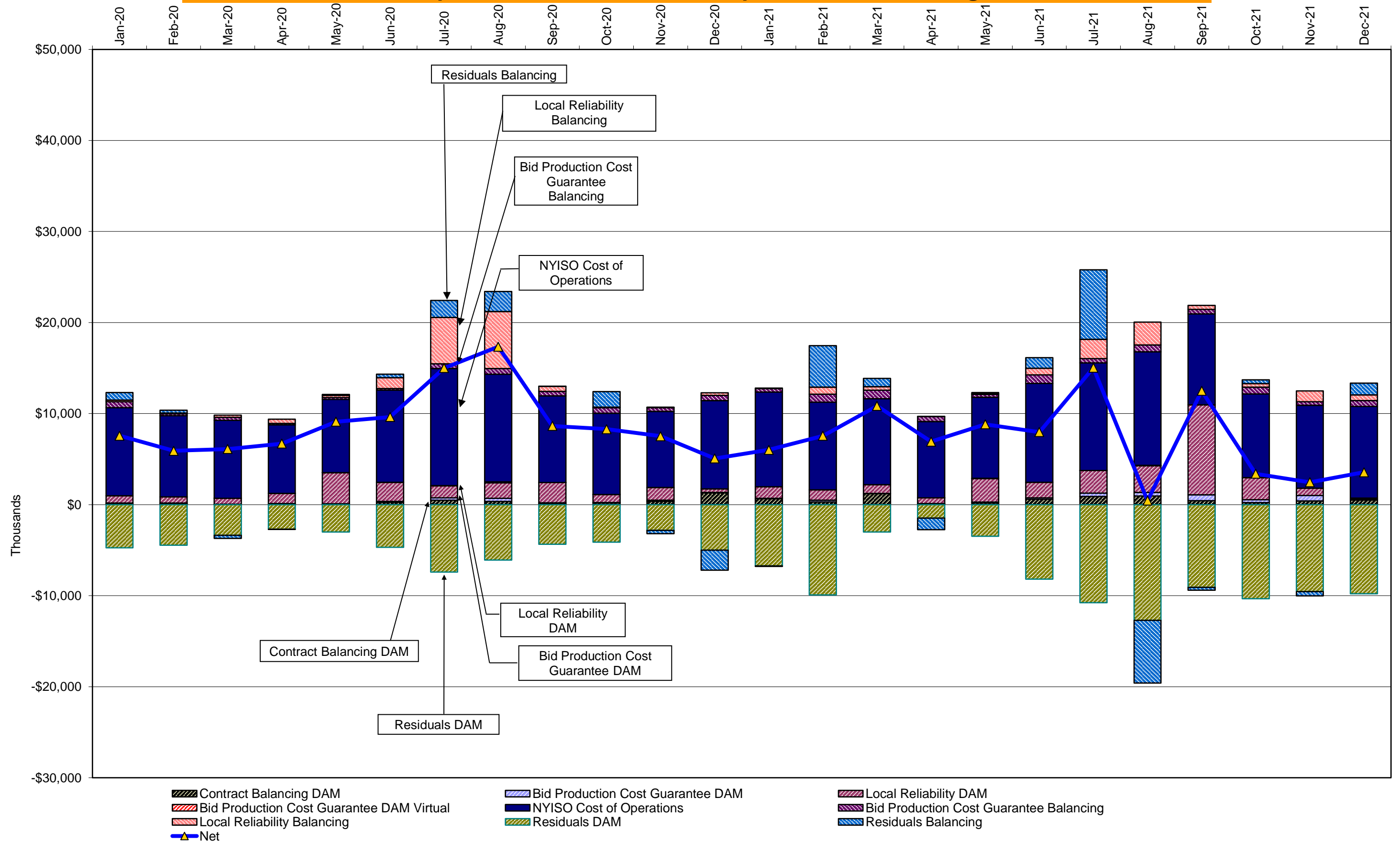
**NYISO Average Cost/MWh (Energy and Ancillary Services) \***  
**from the LBMP Customer point of view**

<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
 <b>2020</b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	24.77	21.11	17.11	15.77	16.14	21.36	28.86	26.13	20.52	20.90	22.57	33.70
NTAC	0.91	0.70	0.86	0.91	1.05	0.95	1.24	1.03	0.78	0.84	1.05	1.35
Reserve	0.46	0.43	0.47	0.50	0.53	0.45	0.39	0.39	0.42	0.61	0.51	0.49
Regulation	0.09	0.08	0.09	0.08	0.10	0.08	0.06	0.07	0.09	0.11	0.09	0.08
NYISO Cost of Operations	0.68	0.69	0.68	0.66	0.71	0.74	0.76	0.75	0.74	0.73	0.69	0.70
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.11	0.09	0.06	0.07	0.09	0.10	0.10	0.08
Uplift	(0.15)	(0.23)	(0.19)	(0.08)	0.09	(0.05)	0.07	0.17	(0.07)	(0.05)	(0.07)	(0.33)
Uplift: Local Reliability Share	0.07	0.06	0.07	0.14	0.32	0.24	0.38	0.50	0.22	0.08	0.12	0.05
Uplift: Statewide Share	(0.22)	(0.29)	(0.26)	(0.21)	(0.23)	(0.29)	(0.31)	(0.33)	(0.28)	(0.13)	(0.19)	(0.38)
Voltage Support and Black Start	0.44	0.44	0.44	0.43	0.45	0.45	0.46	0.46	0.45	0.45	0.44	0.45
<b>Avg Monthly Cost</b>	27.29	23.32	19.55	18.38	19.16	24.09	31.91	29.07	23.03	23.70	25.40	36.52
 Avg YTD Cost	27.29	25.40	23.48	22.38	21.82	22.21	24.11	24.88	24.69	24.62	24.68	25.70
 TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.04	0.18	0.54	0.00	0.00	0.00	0.00

\* Excludes ICAP payments.  
Market Mitigation and Analysis  
Prepared: 1/12/2022 1:20 PM

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

# NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through December 31, 2021



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

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

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

## NYISO Markets Transactions

<u>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>
<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

<u>2020</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>Day Ahead Market MWh</u></b>	14,194,609	13,172,669	12,495,999	11,372,390	11,462,320	13,825,178	16,629,337	15,671,629	13,122,542	12,338,638	12,157,281	13,748,181
DAM LSE Internal LBMP Energy Sales	56%	56%	59%	54%	55%	58%	65%	63%	60%	56%	57%	59%
DAM External TC LBMP Energy Sales	6%	5%	5%	7%	4%	3%	2%	4%	4%	5%	5%	5%
DAM Bilateral - Internal Bilaterals	30%	30%	27%	30%	31%	29%	26%	27%	30%	32%	33%	31%
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	6%	6%	6%	5%	3%	3%	2%	3%	3%	2%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	1%	1%	2%	2%	2%	2%	2%	0%	2%
<b><u>Balancing Energy Market MWh</u></b>	-26,753	-142,168	144,076	22,599	-137,565	-180,149	403,914	212,307	-173,115	-89,451	-54,598	156,891
Balancing Energy LSE Internal LBMP Energy Sales	-1080%	-221%	-85%	-884%	-187%	-134%	85%	99%	-95%	-220%	-459%	-12%
Balancing Energy External TC LBMP Energy Sales	1156%	181%	240%	1233%	137%	99%	35%	43%	104%	187%	382%	107%
Balancing Energy Bilateral - Internal Bilaterals	62%	5%	12%	55%	12%	7%	2%	1%	0%	4%	3%	7%
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	20%	9%	6%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	127%	16%	18%	92%	12%	5%	2%	4%	7%	17%	33%	11%
Balancing Energy Bilateral - Wheel Through Bilaterals	-365%	-81%	-85%	-396%	-74%	-77%	-24%	-46%	-116%	-107%	-69%	-19%
<b><u>Transactions Summary</u></b>												
LBMP	62%	62%	65%	61%	59%	62%	68%	67%	64%	61%	62%	64%
Internal Bilaterals	31%	31%	27%	30%	32%	30%	26%	27%	31%	32%	33%	31%
Import Bilaterals	5%	5%	6%	6%	6%	5%	3%	3%	2%	3%	3%	2%
Export Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%	2%
Wheels Through	0%	1%	0%	0%	0%	1%	1%	1%	1%	2%	0%	2%
<b><u>Market Share of Total Load</u></b>												
Day Ahead Market	100.2%	101.1%	98.9%	99.8%	101.2%	101.3%	97.6%	98.7%	101.3%	100.7%	100.5%	98.9%
Balancing Energy +	-0.2%	-1.1%	1.1%	0.2%	-1.2%	-1.3%	2.4%	1.3%	-1.3%	-0.7%	-0.5%	1.1%
Total MWH	14,167,856	13,030,501	12,640,075	11,394,989	11,324,755	13,645,029	17,033,251	15,883,935	12,949,426	12,249,187	12,102,682	13,905,071
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430	530	489	408	367	377	417

+ 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 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

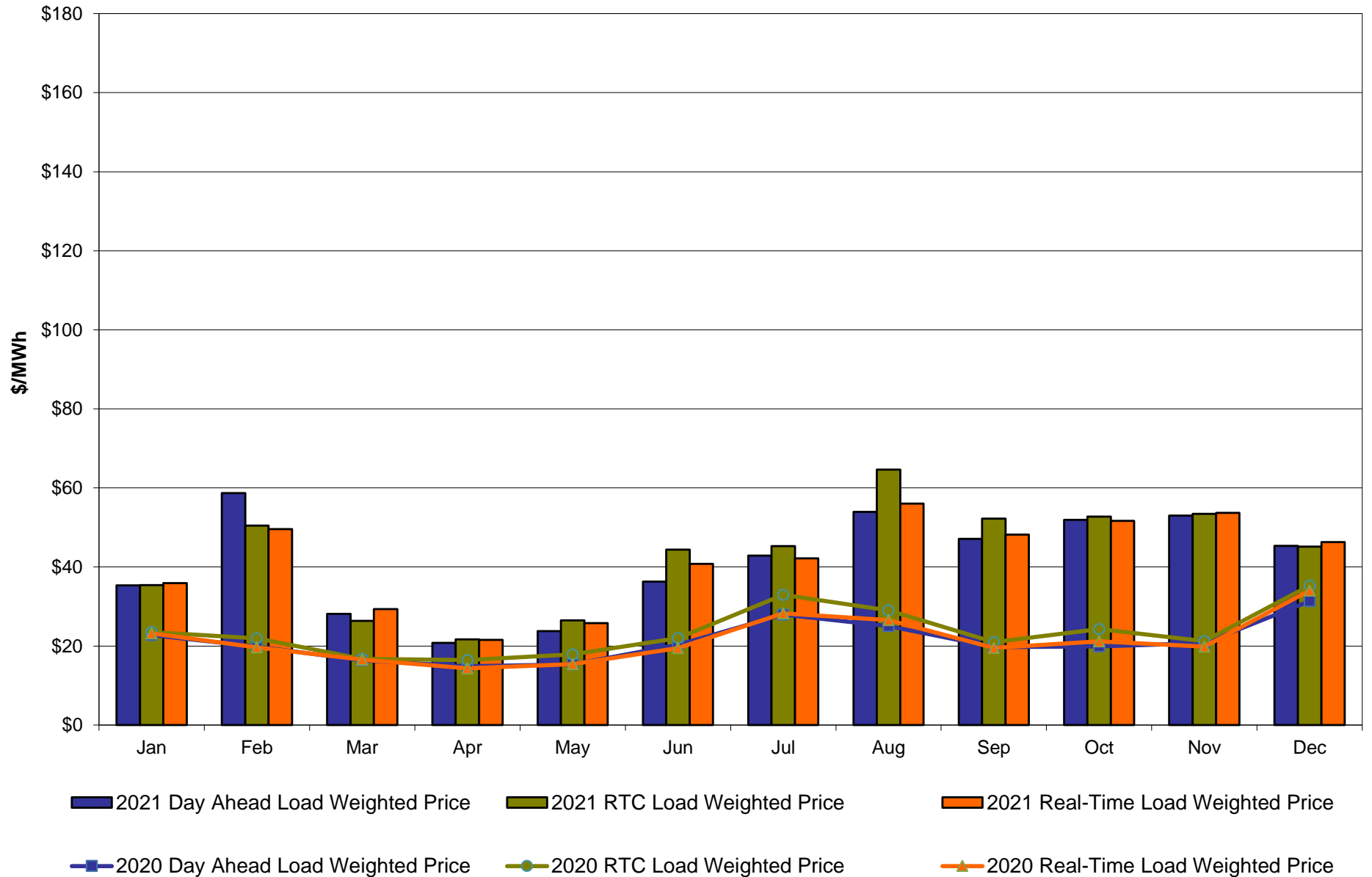
### **NYISO Markets 2020 Energy Statistics**

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>DAY AHEAD LBMP</u></b>												
Price *	\$22.11	\$19.48	\$16.07	\$14.67	\$14.97	\$19.15	\$26.30	\$23.61	\$18.88	\$19.40	\$20.07	\$30.45
Standard Deviation	\$7.43	\$4.45	\$3.21	\$2.71	\$3.55	\$6.40	\$10.45	\$8.56	\$5.41	\$6.36	\$7.15	\$12.35
Load Weighted Price **	\$22.77	\$19.84	\$16.36	\$14.86	\$15.37	\$20.28	\$27.94	\$25.01	\$19.72	\$19.91	\$20.75	\$31.36
<b><u>RTC LBMP</u></b>												
Price *	\$22.86	\$21.48	\$16.48	\$16.23	\$17.46	\$20.84	\$30.70	\$26.86	\$19.90	\$23.35	\$20.39	\$34.01
Standard Deviation	\$9.33	\$53.30	\$4.84	\$5.17	\$8.61	\$11.26	\$17.92	\$17.17	\$11.37	\$14.44	\$14.19	\$25.41
Load Weighted Price **	\$23.50	\$21.94	\$16.74	\$16.44	\$17.89	\$22.01	\$32.92	\$29.01	\$20.99	\$24.25	\$21.23	\$35.28
<b><u>REAL TIME LBMP</u></b>												
Price *	\$22.53	\$19.29	\$16.24	\$14.14	\$14.90	\$18.35	\$26.56	\$24.68	\$18.63	\$20.44	\$18.96	\$32.72
Standard Deviation	\$11.90	\$8.68	\$7.48	\$6.98	\$8.35	\$9.33	\$16.45	\$13.95	\$7.15	\$12.01	\$12.66	\$24.29
Load Weighted Price **	\$23.20	\$19.68	\$16.58	\$14.35	\$15.42	\$19.46	\$28.27	\$26.53	\$19.54	\$21.15	\$19.84	\$34.04
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430	530	489	408	367	377	417

\* Average zonal load weighted prices.

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

# **NYISO Monthly Average Internal LBMPs 2020 - 2021**



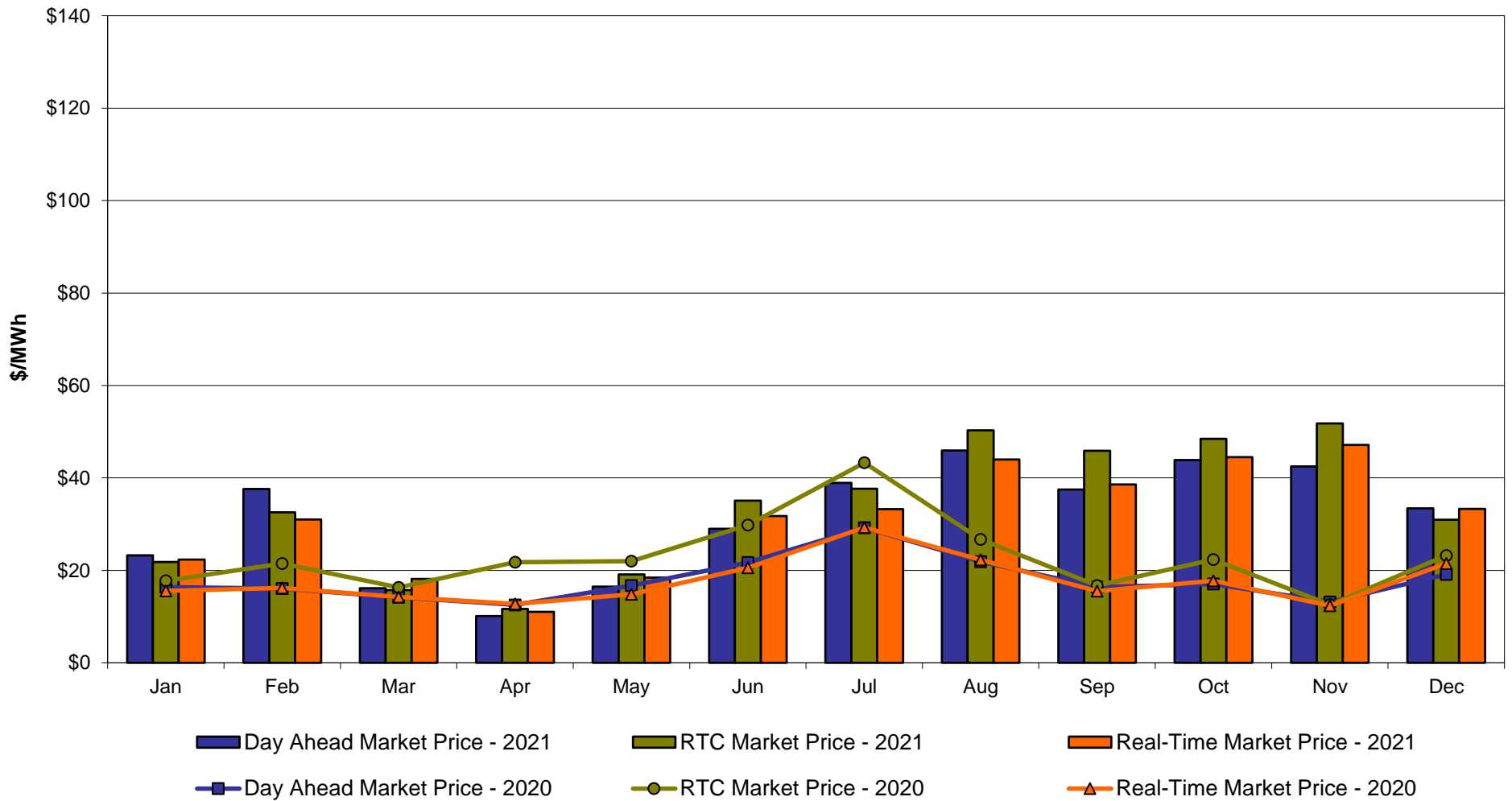


**December 2021 Zonal LBMP Statistics for NYISO (\$/MWh)**

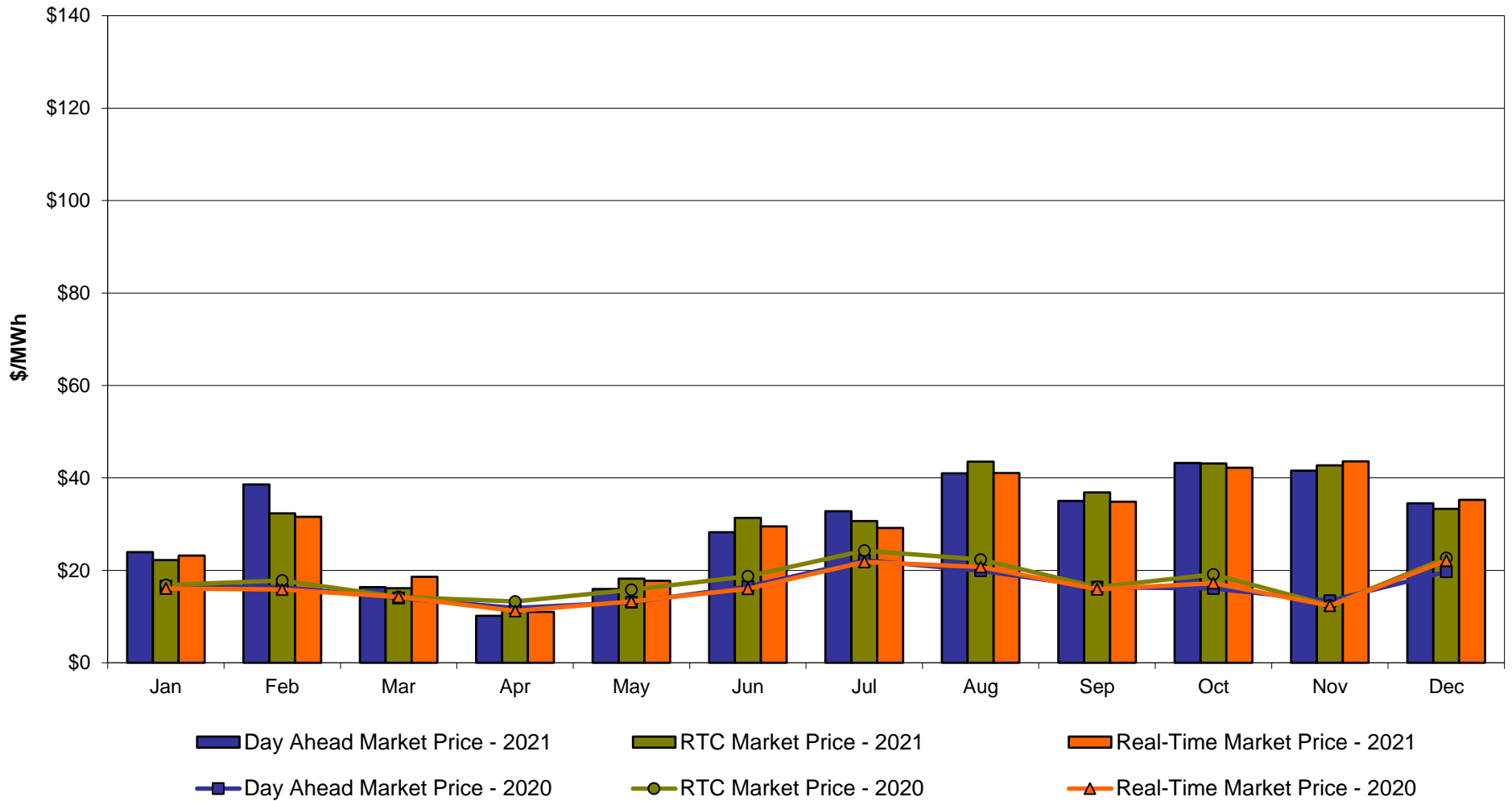
	<b><u>WEST Zone A</u></b>	<b><u>GENESEE Zone B</u></b>	<b><u>NORTH Zone D</u></b>	<b><u>CENTRAL Zone C</u></b>	<b><u>MOHAWK VALLEY Zone E</u></b>	<b><u>CAPITAL Zone F</u></b>	<b><u>HUDSON VALLEY Zone G</u></b>	<b><u>MILLWOOD Zone H</u></b>	<b><u>DUNWOODIE Zone I</u></b>	<b><u>NEW YORK CITY Zone J</u></b>	<b><u>LONG ISLAND Zone K</u></b>
<b><u>DAY AHEAD LBMP</u></b>											
Unweighted Price *	33.41	33.37	29.31	34.51	35.66	49.72	45.86	47.70	47.16	47.29	60.85
Standard Deviation	9.95	9.78	11.26	9.87	10.20	17.92	13.76	17.17	15.42	15.43	25.73
<b><u>RTC LBMP</u></b>											
Unweighted Price *	30.97	32.18	30.45	33.31	34.63	48.56	44.34	45.59	45.38	45.49	70.12
Standard Deviation	13.55	13.54	15.53	13.55	13.60	23.76	16.18	18.36	17.59	17.60	69.10
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	33.29	34.19	32.33	35.28	36.66	50.90	46.67	47.99	47.76	47.90	63.58
Standard Deviation	20.74	21.34	22.58	21.53	21.88	33.23	25.94	27.49	27.15	27.20	44.68
	<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 *	31.90	31.10	31.10	39.77	57.00	62.31	60.71	59.64	46.96	47.04	29.10
Standard Deviation	8.83	9.75	9.75	10.64	25.41	30.86	24.51	23.52	15.30	15.35	10.83
<b><u>RTC LBMP</u></b>											
Unweighted Price *	29.26	30.88	30.88	37.32	58.23	74.63	68.19	67.51	45.30	45.28	30.23
Standard Deviation	12.57	15.22	15.22	12.61	29.95	81.39	65.49	65.37	17.99	18.35	16.08
<b><u>REAL TIME LBMP</u></b>											
Unweighted Price *	32.21	32.70	32.70	39.60	54.98	66.51	61.81	61.60	47.62	47.81	31.89
Standard Deviation	20.76	22.47	22.47	22.08	32.27	51.54	45.07	42.98	27.55	27.66	22.51

\* Straight LBMP averages

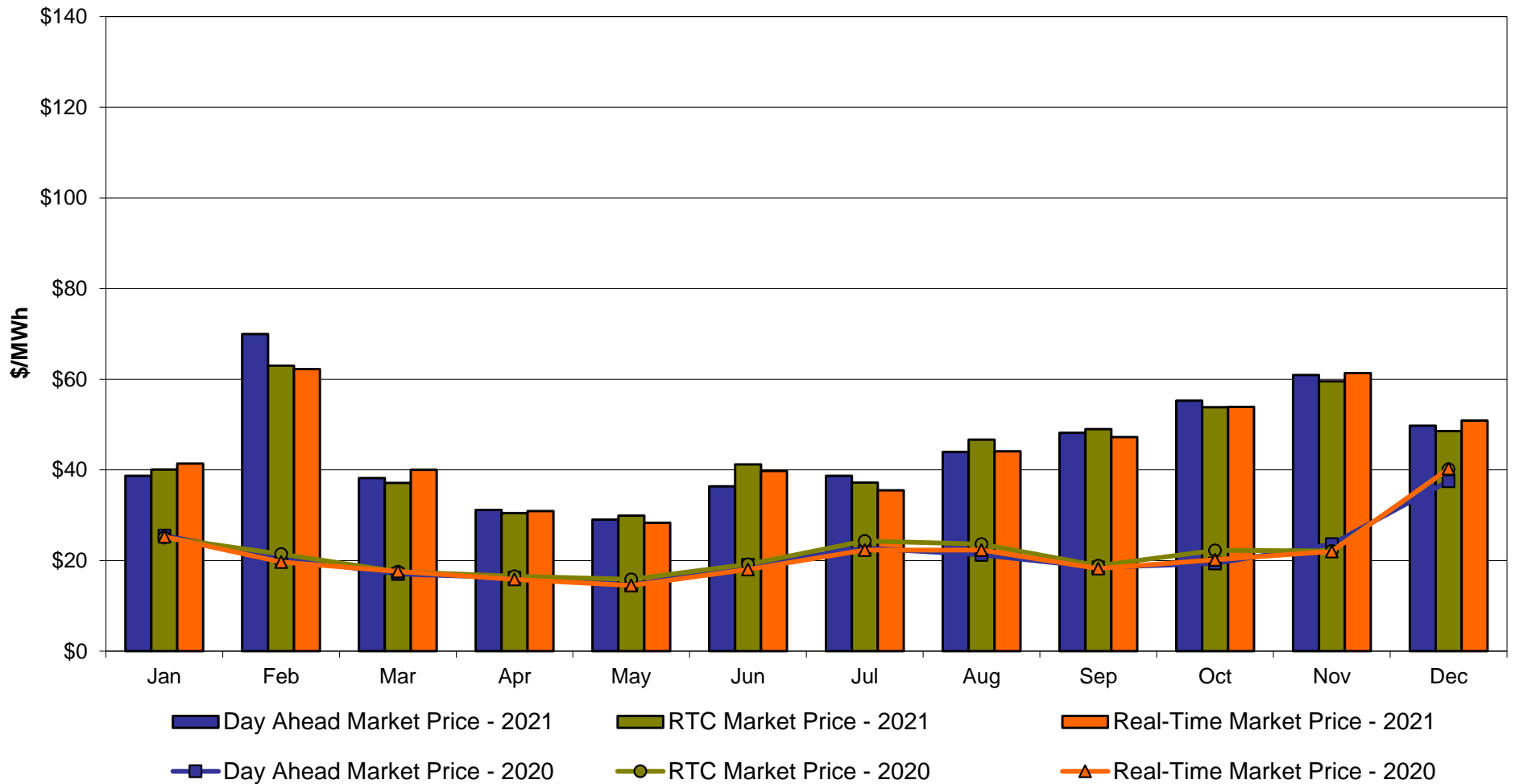
**West Zone A**  
**Monthly Average LBMP Prices 2020 - 2021**



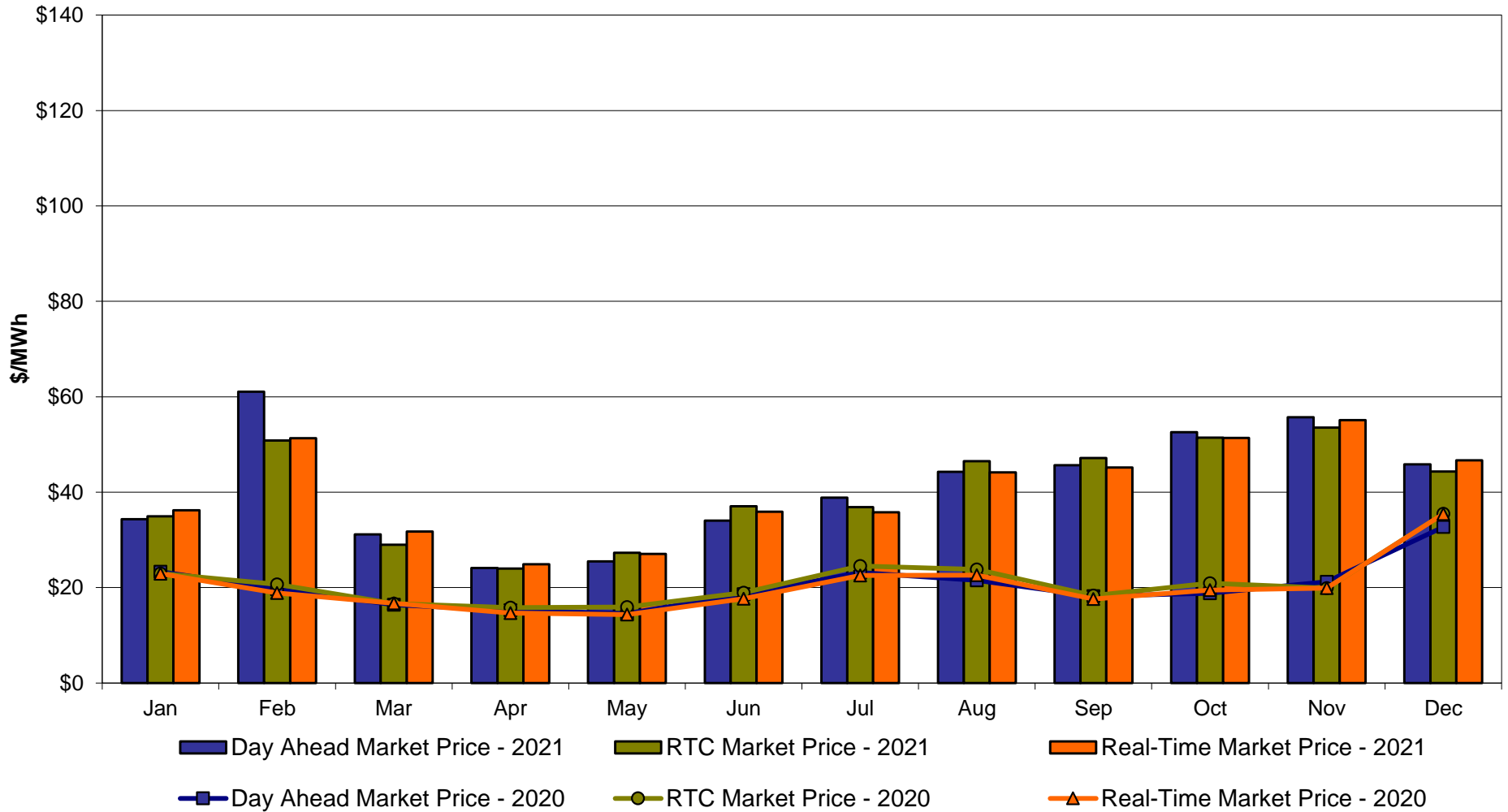
# Central Zone C Monthly Average LBMP Prices 2020 - 2021



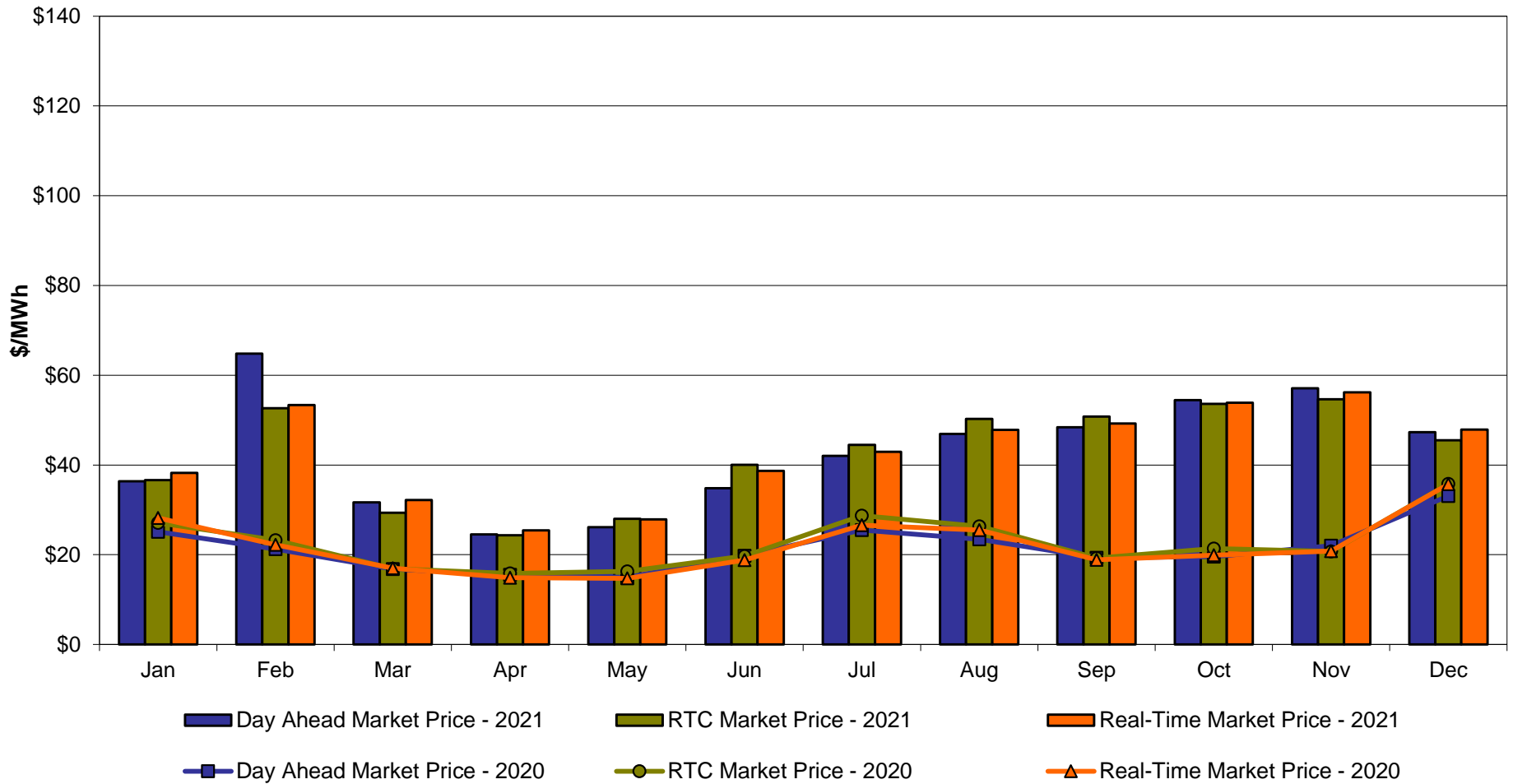
# **Capital Zone F** **Monthly Average LBMP Prices 2020 - 2021**



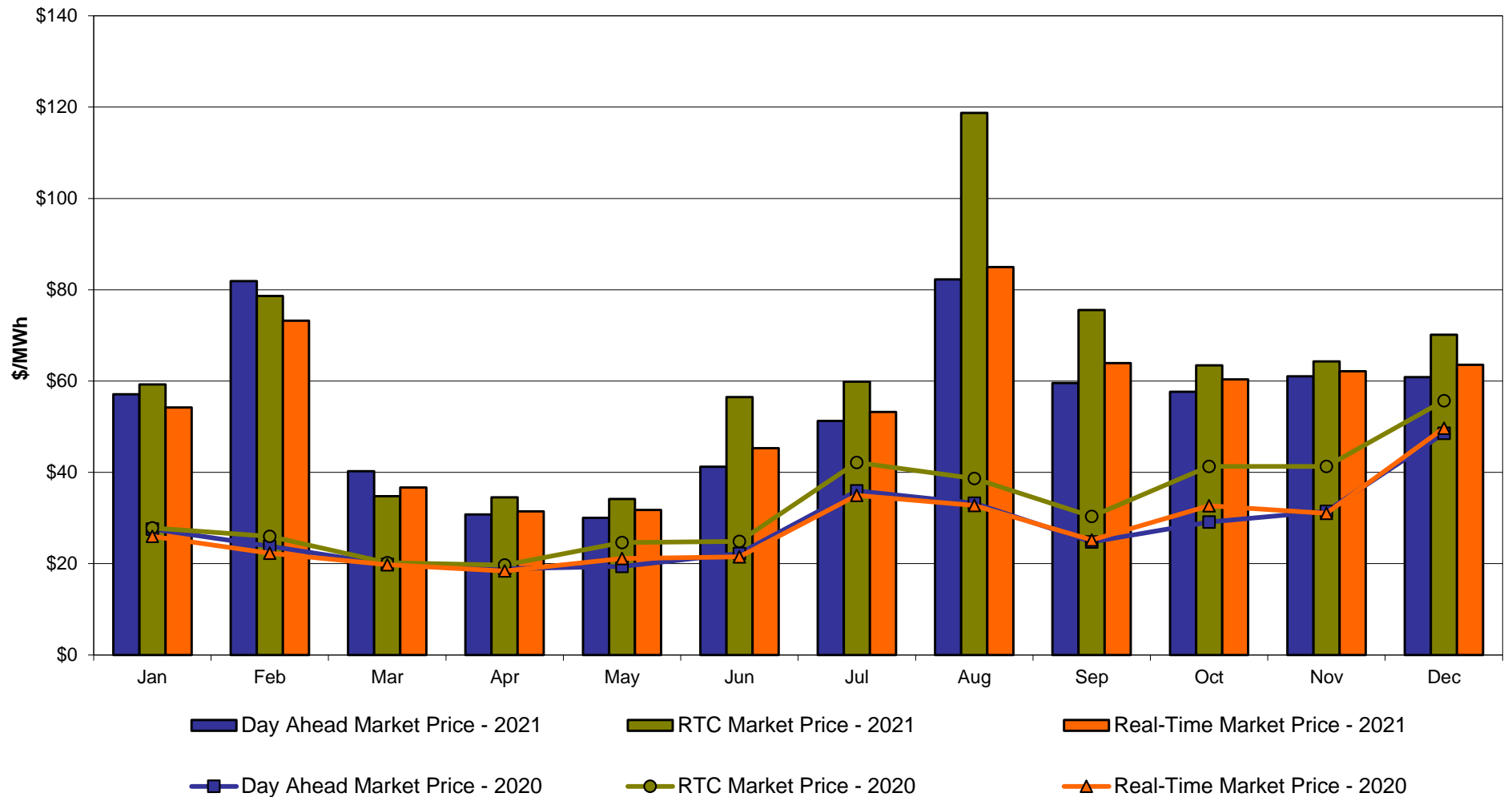
## Hudson Valley Zone G Monthly Average LBMP Prices 2020 - 2021



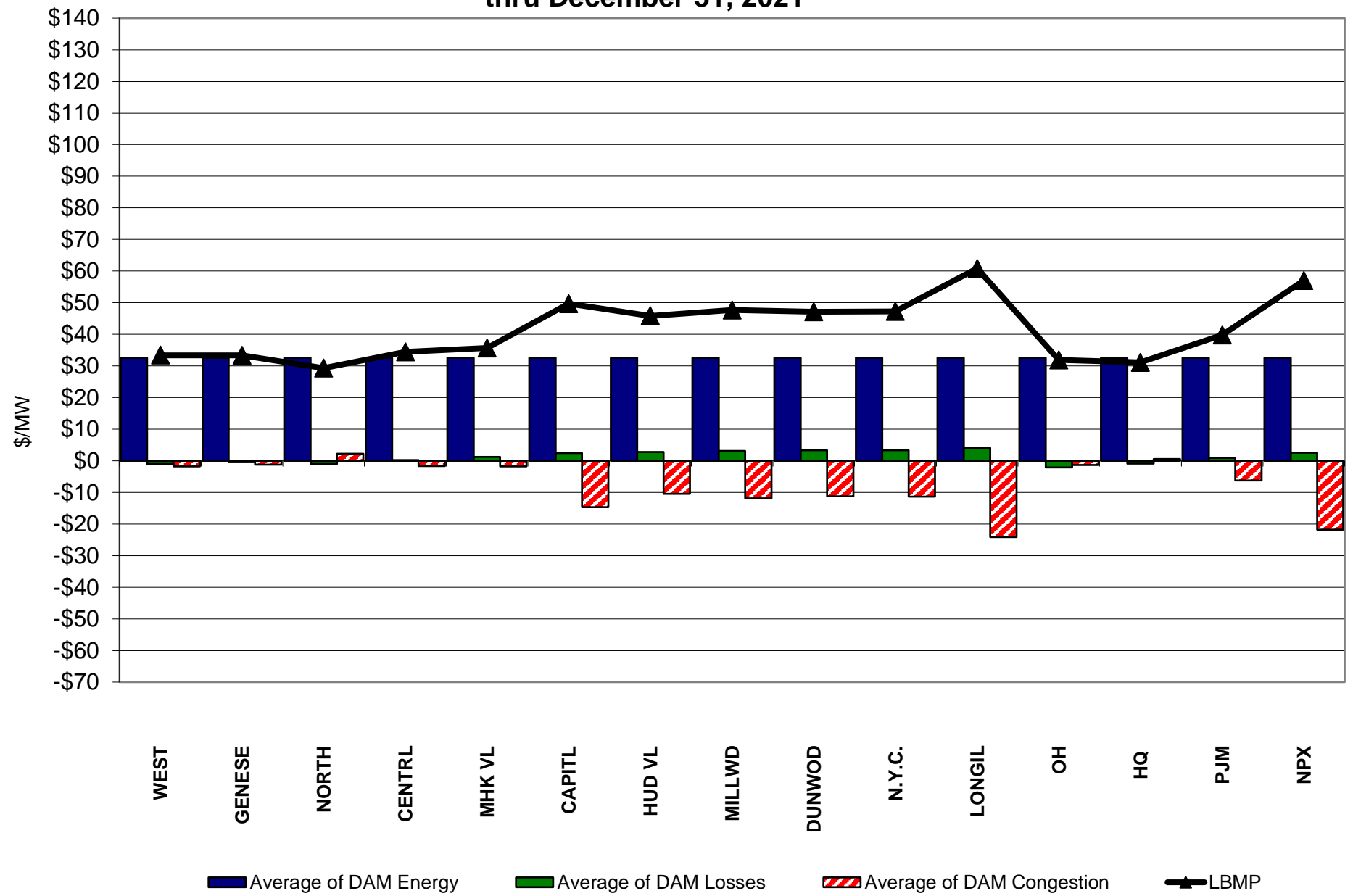
# **NYC Zone J** **Monthly Average LBMP Prices 2020 - 2021**



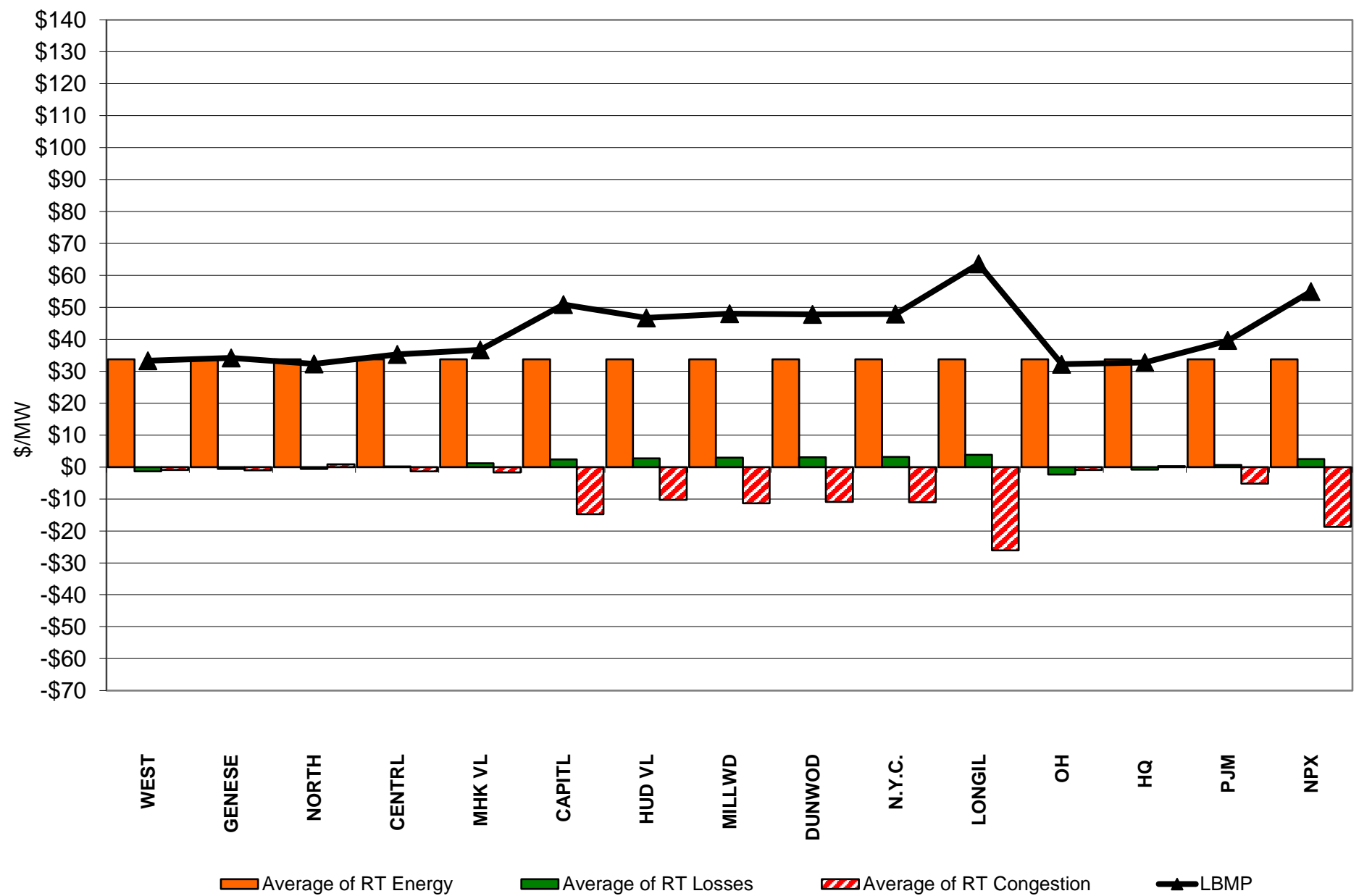
# Long Island Zone K Monthly Average LBMP Prices 2020 - 2021



**DAM Zonal Unweighted Monthly Average LBMP Components  
thru December 31, 2021**

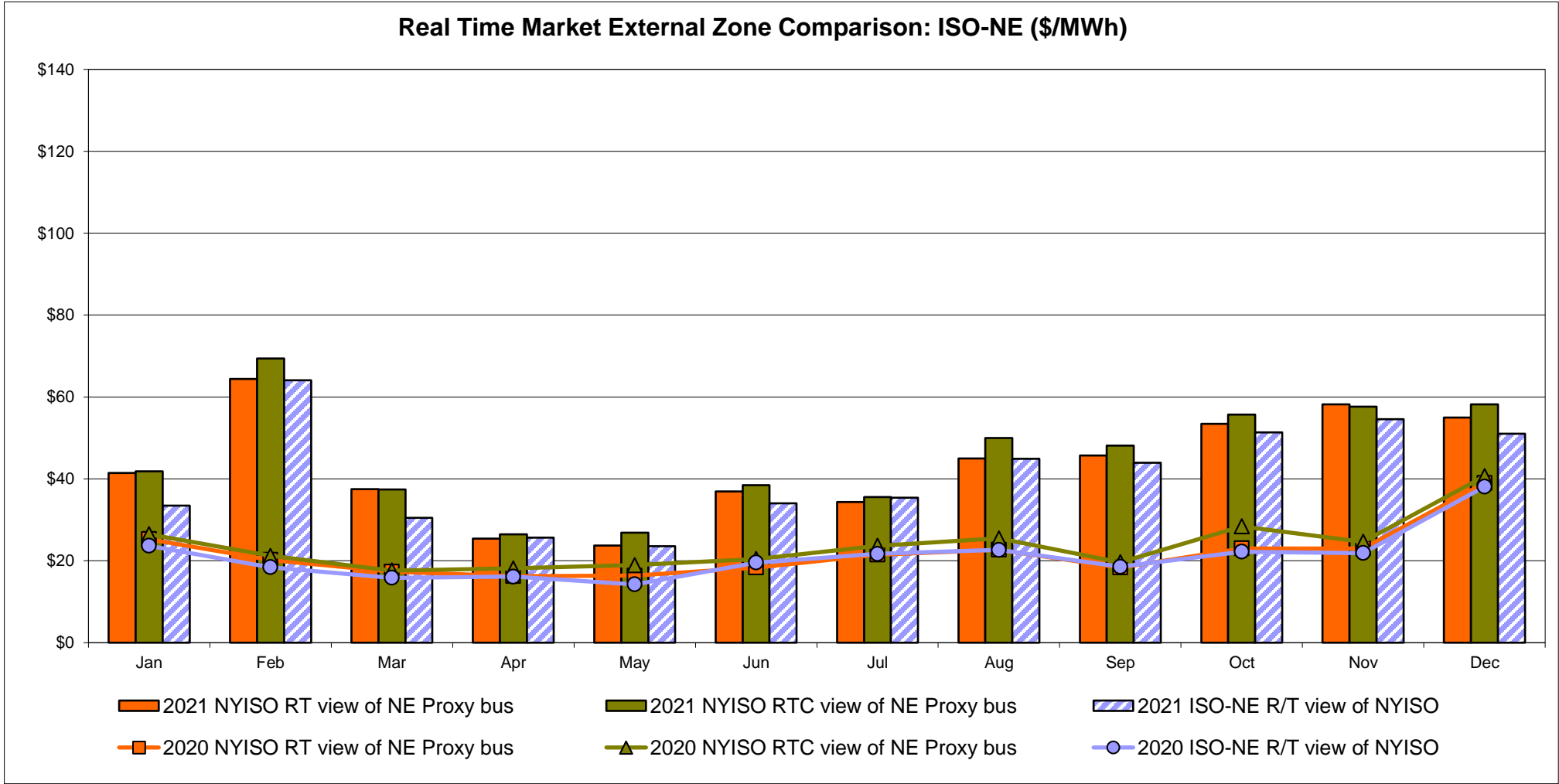
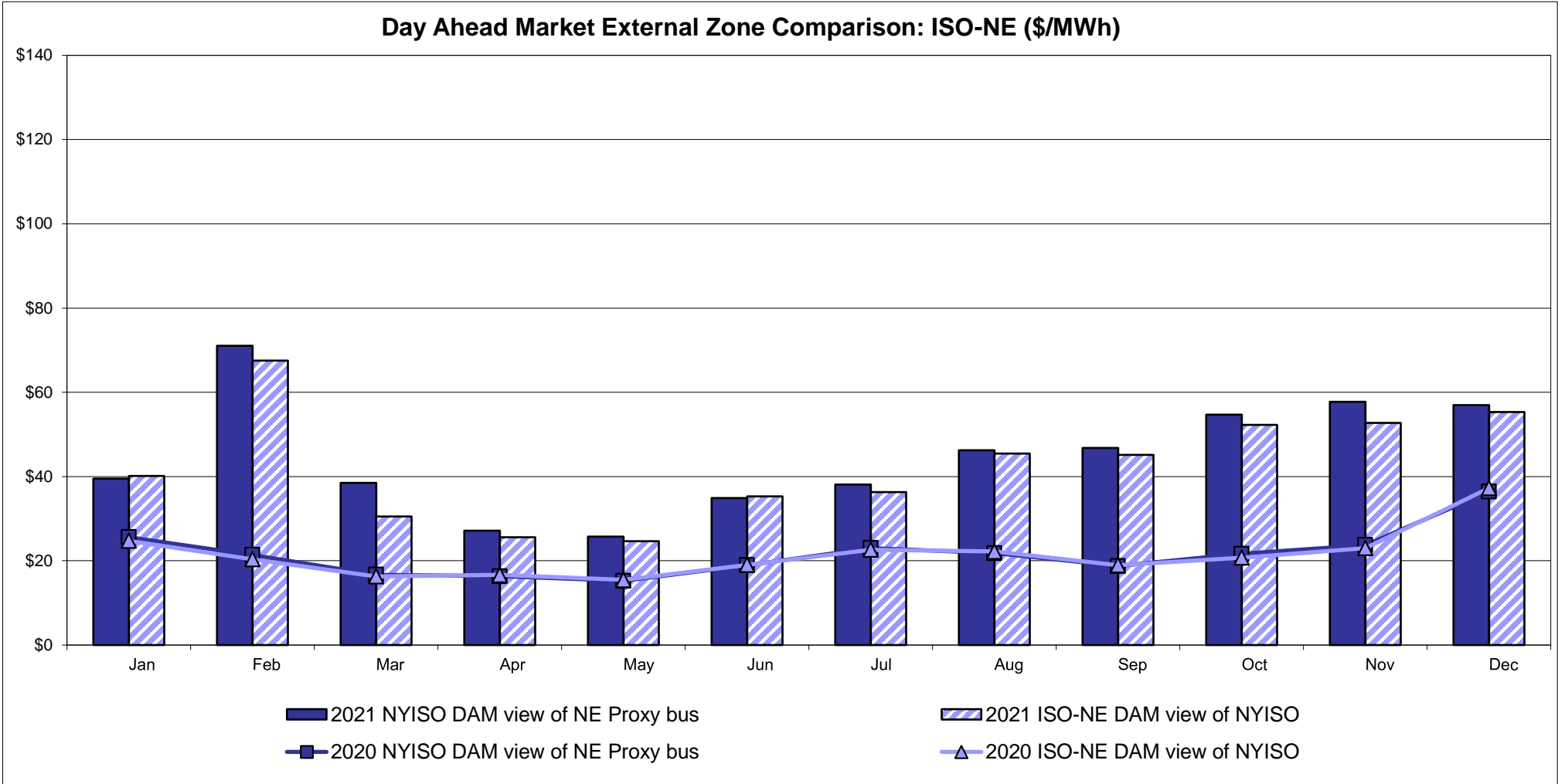


**RT Zonal Unweighted Monthly Average LBMP Components  
thru December 31, 2021**



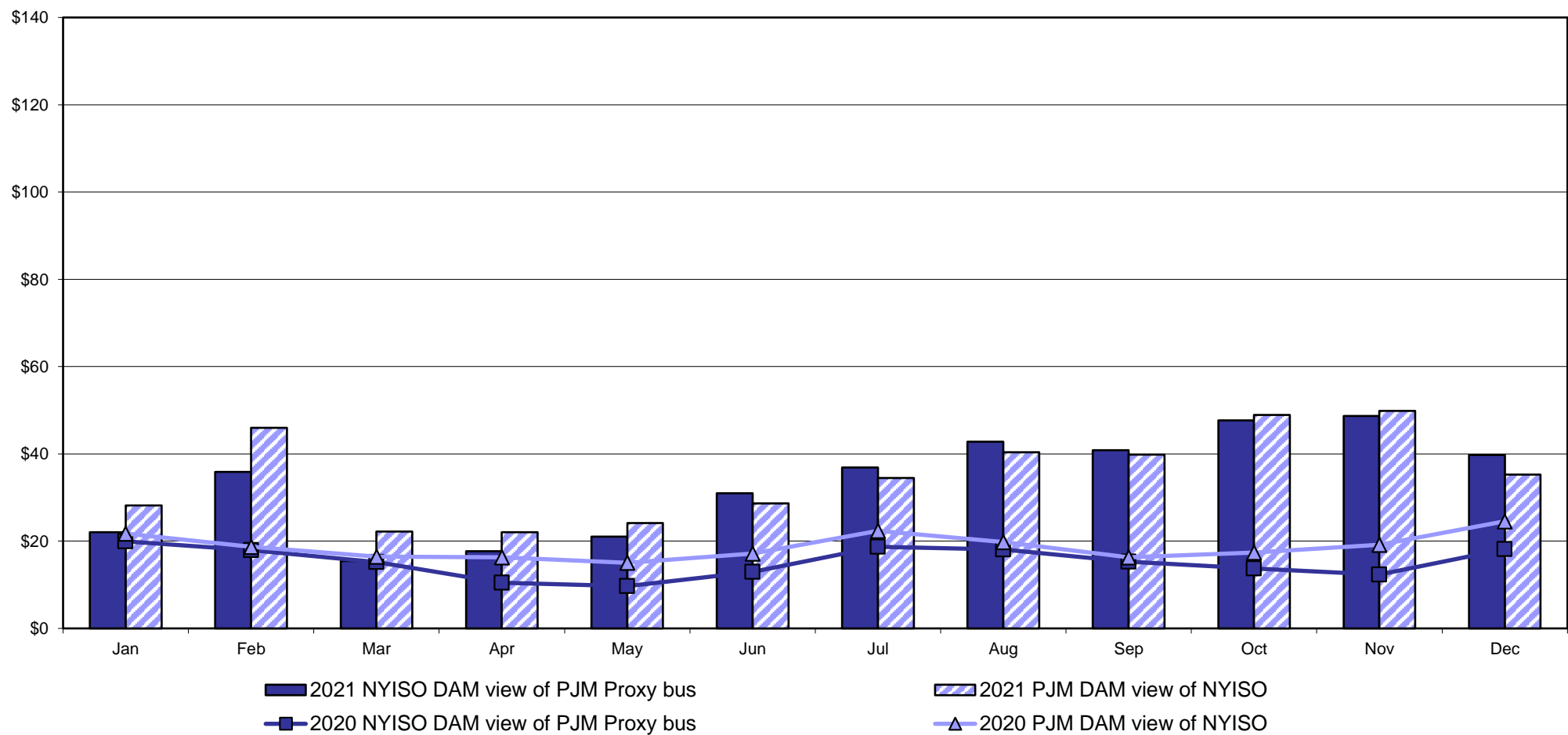


External Comparison ISO-New England

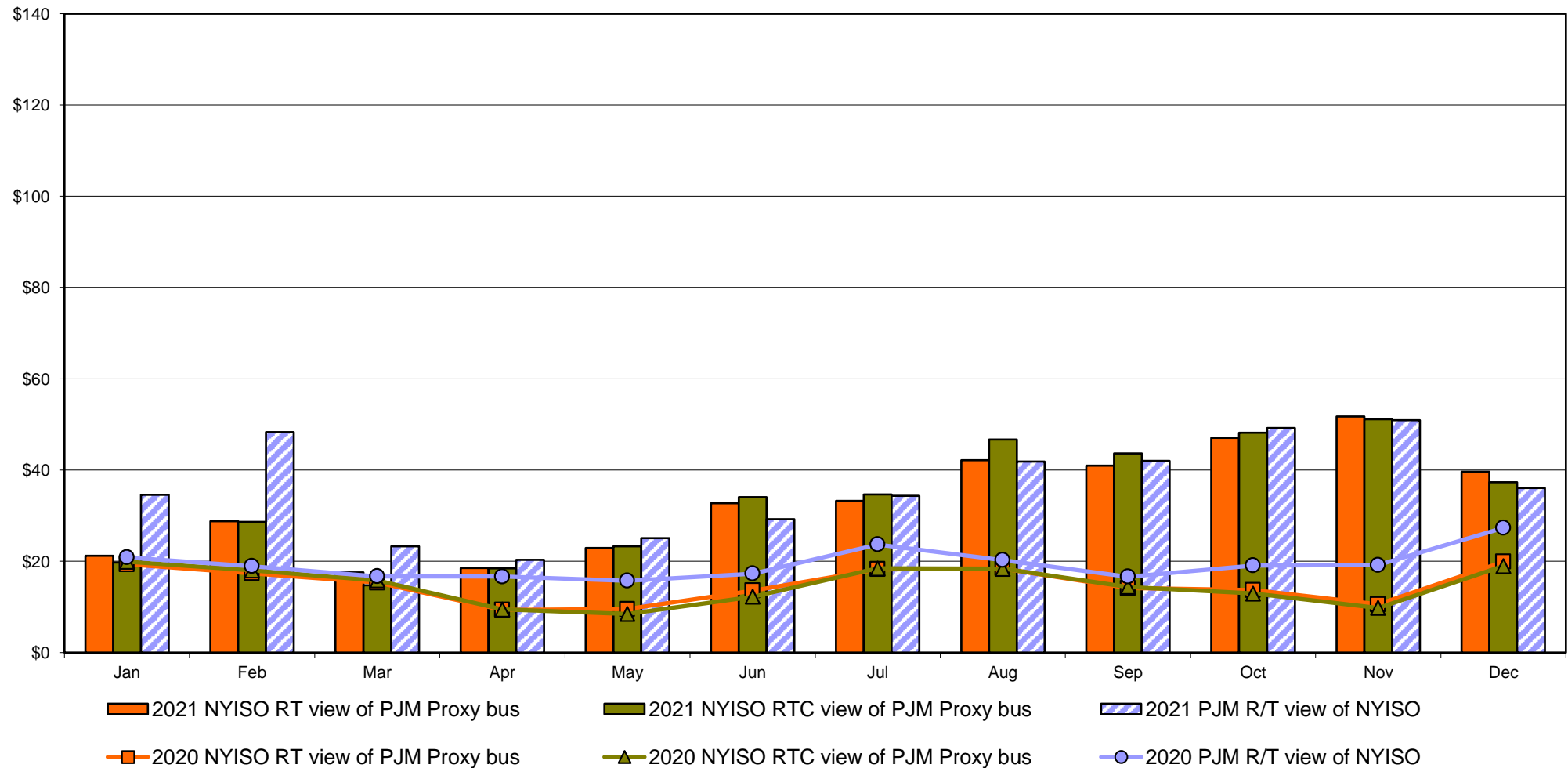


# External Comparison PJM

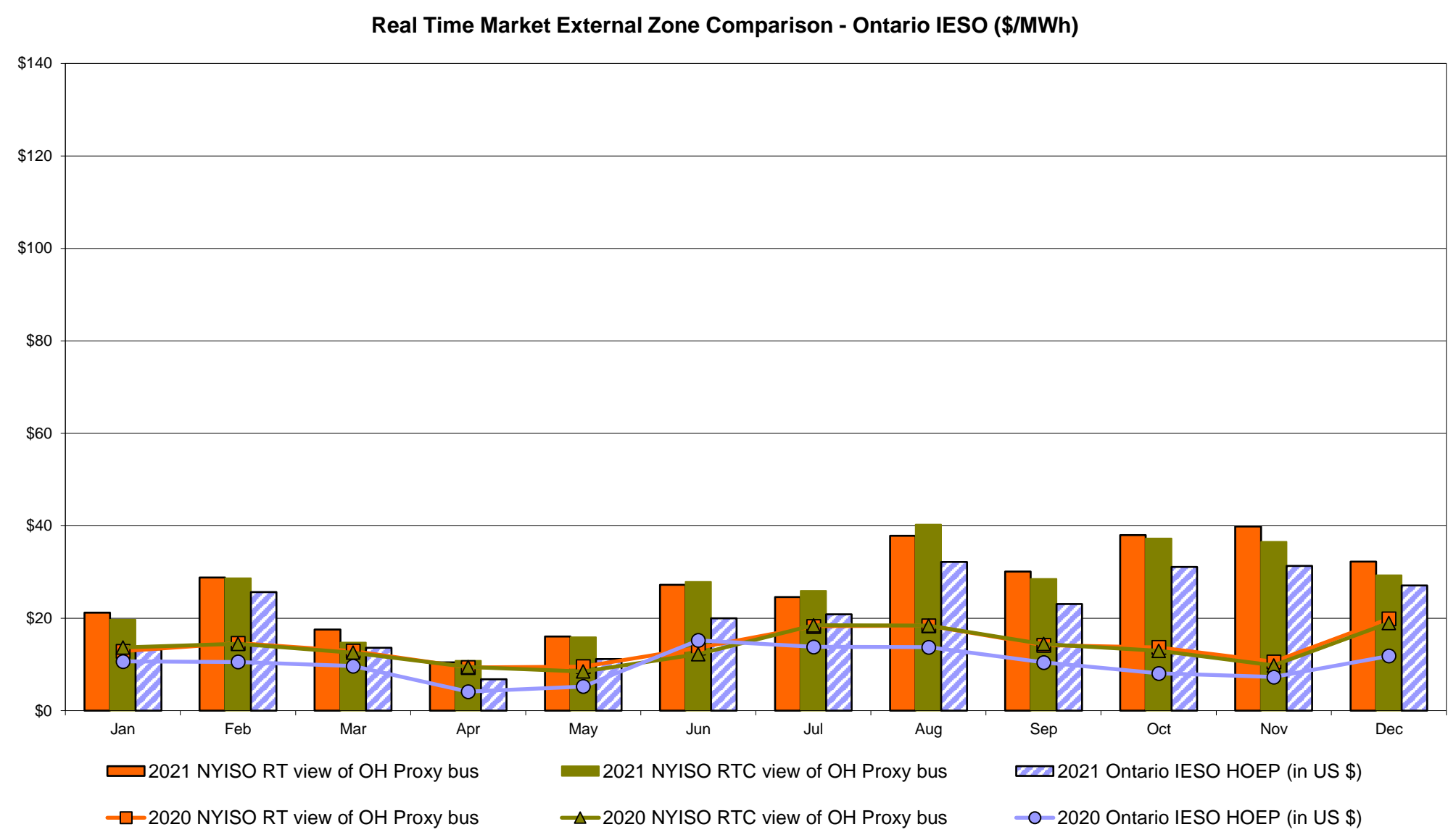
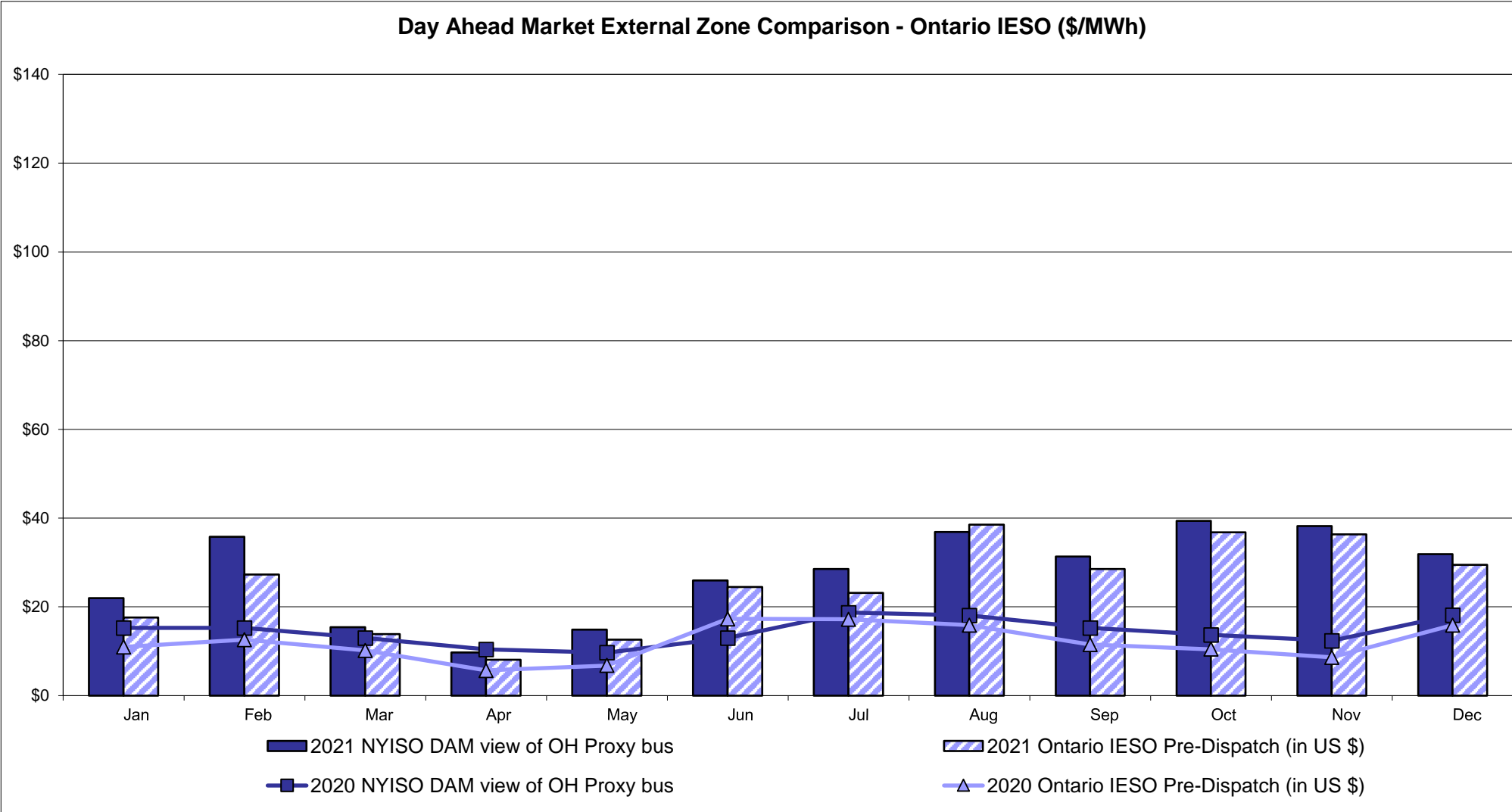
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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



External Comparison Ontario IESO



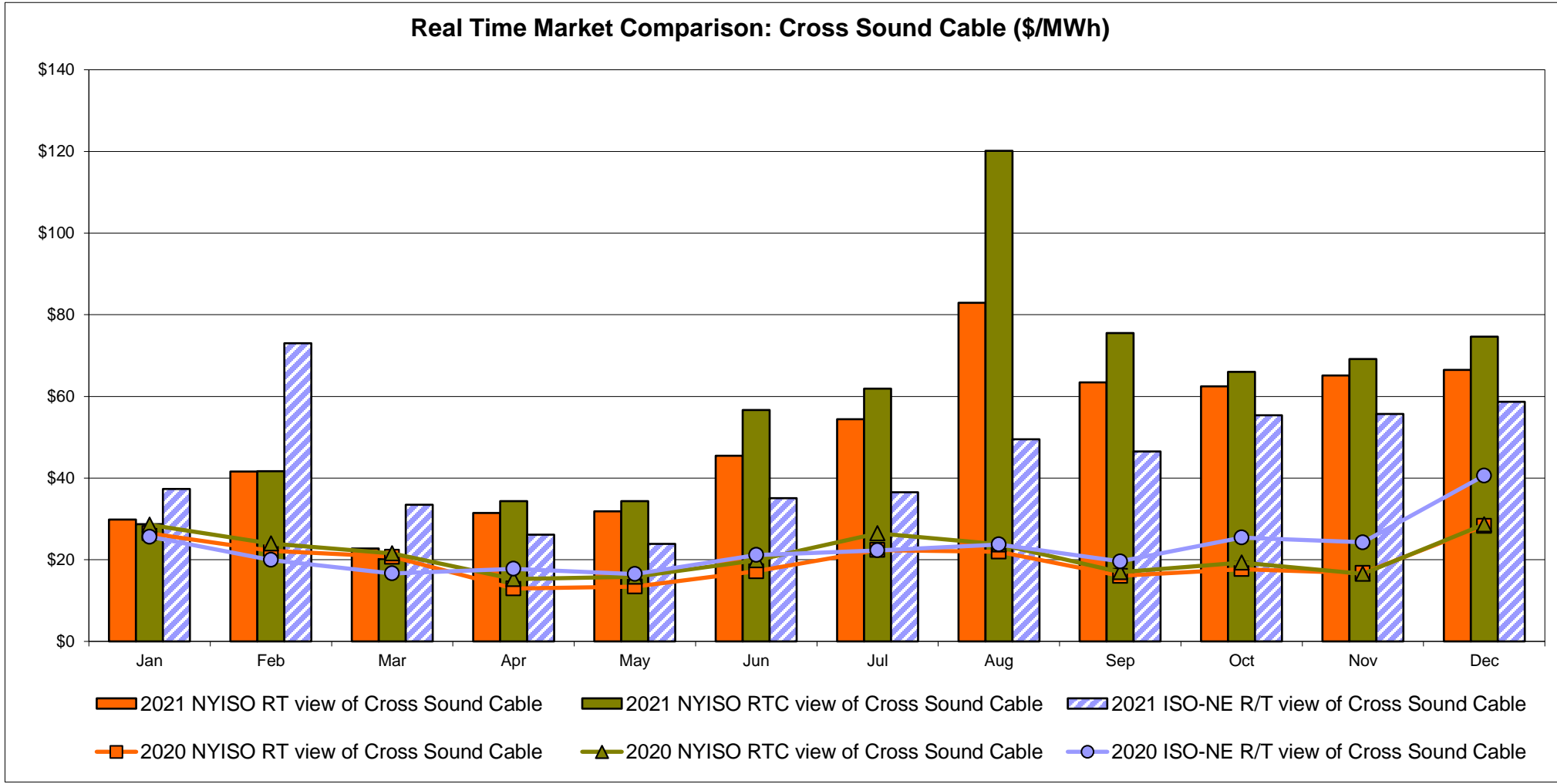
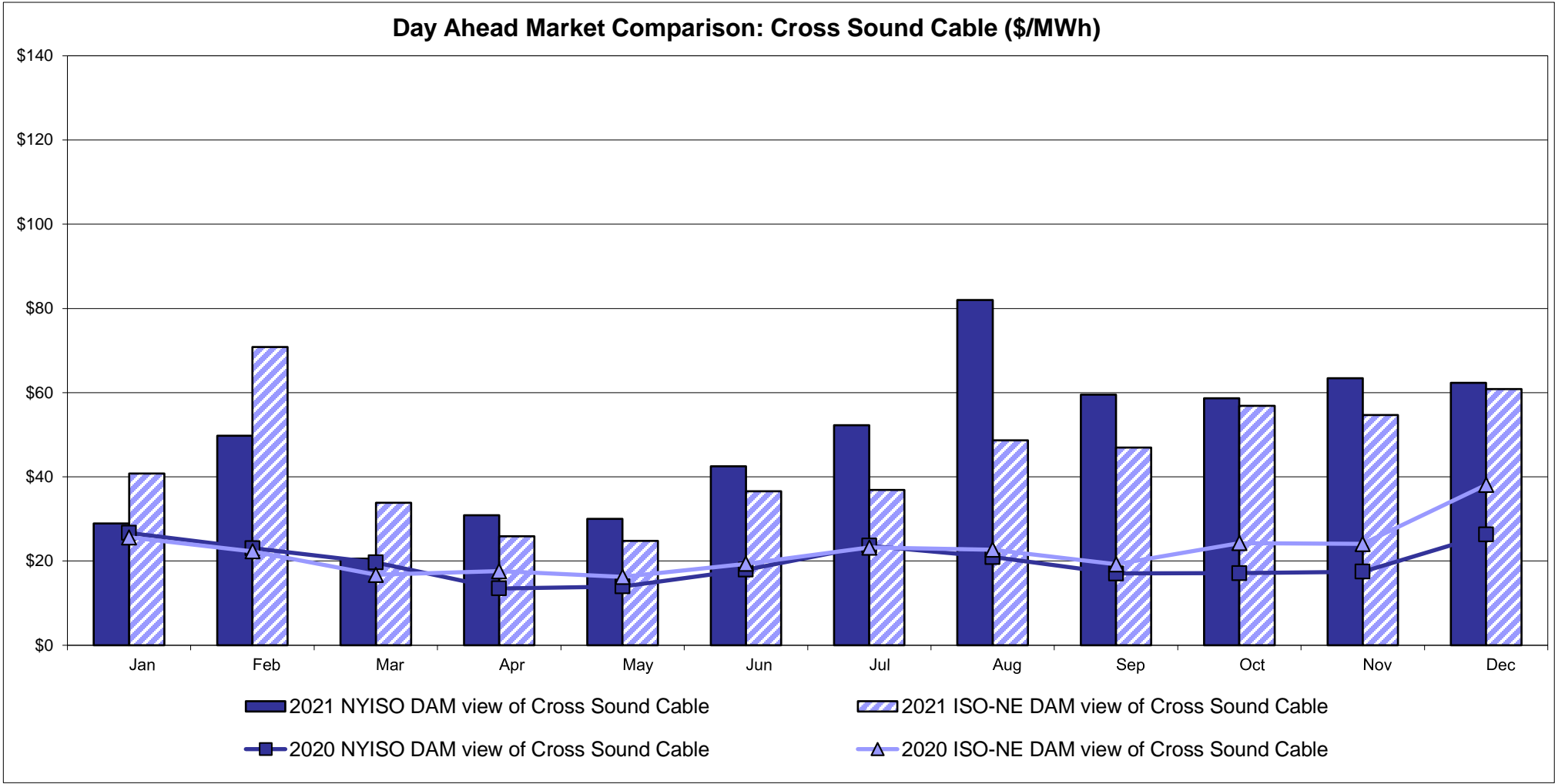
Notes:

Exchange factor used for December 2021 was 0.78125 to US

HOEP: Hourly Ontario Energy Price

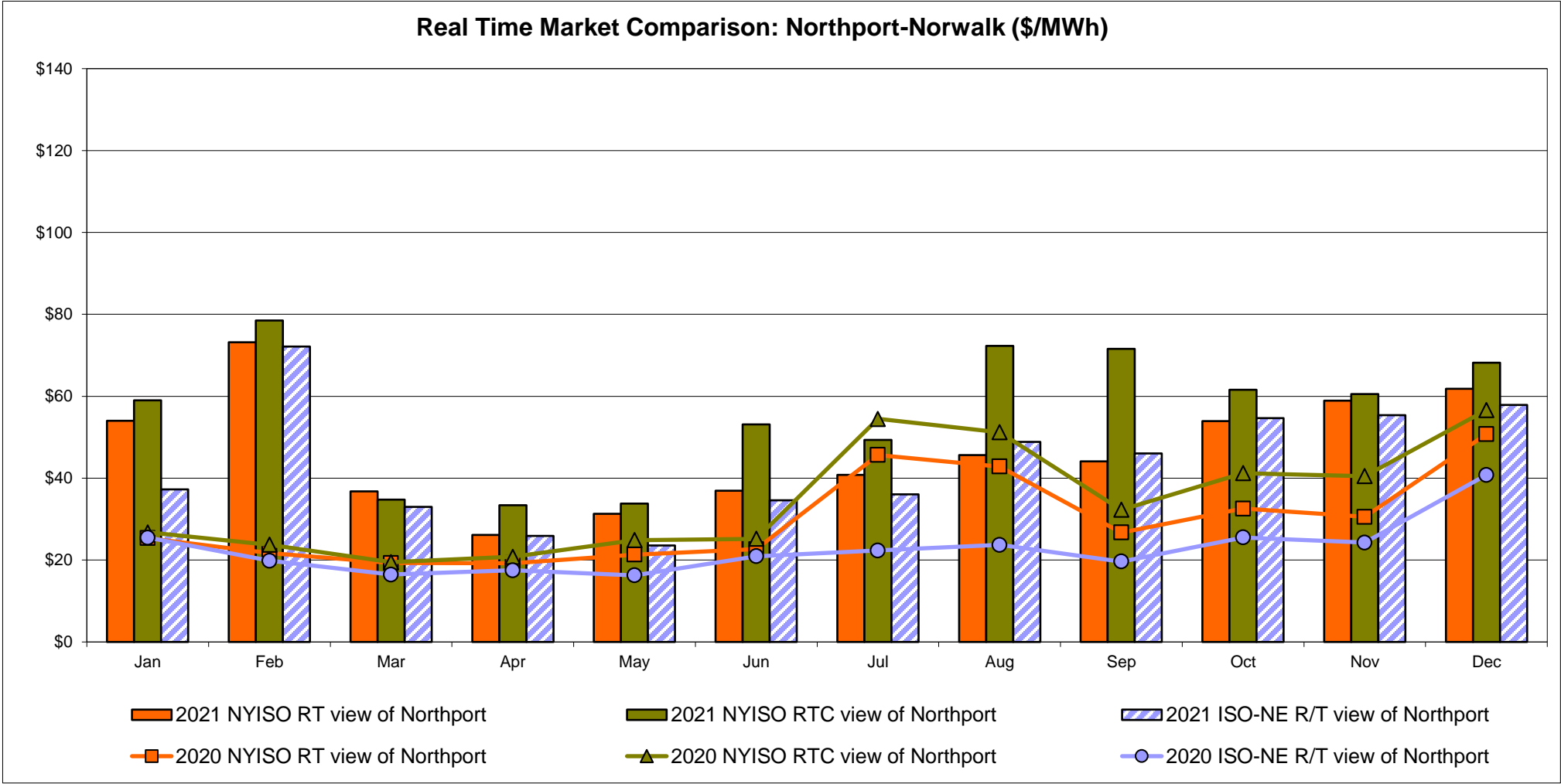
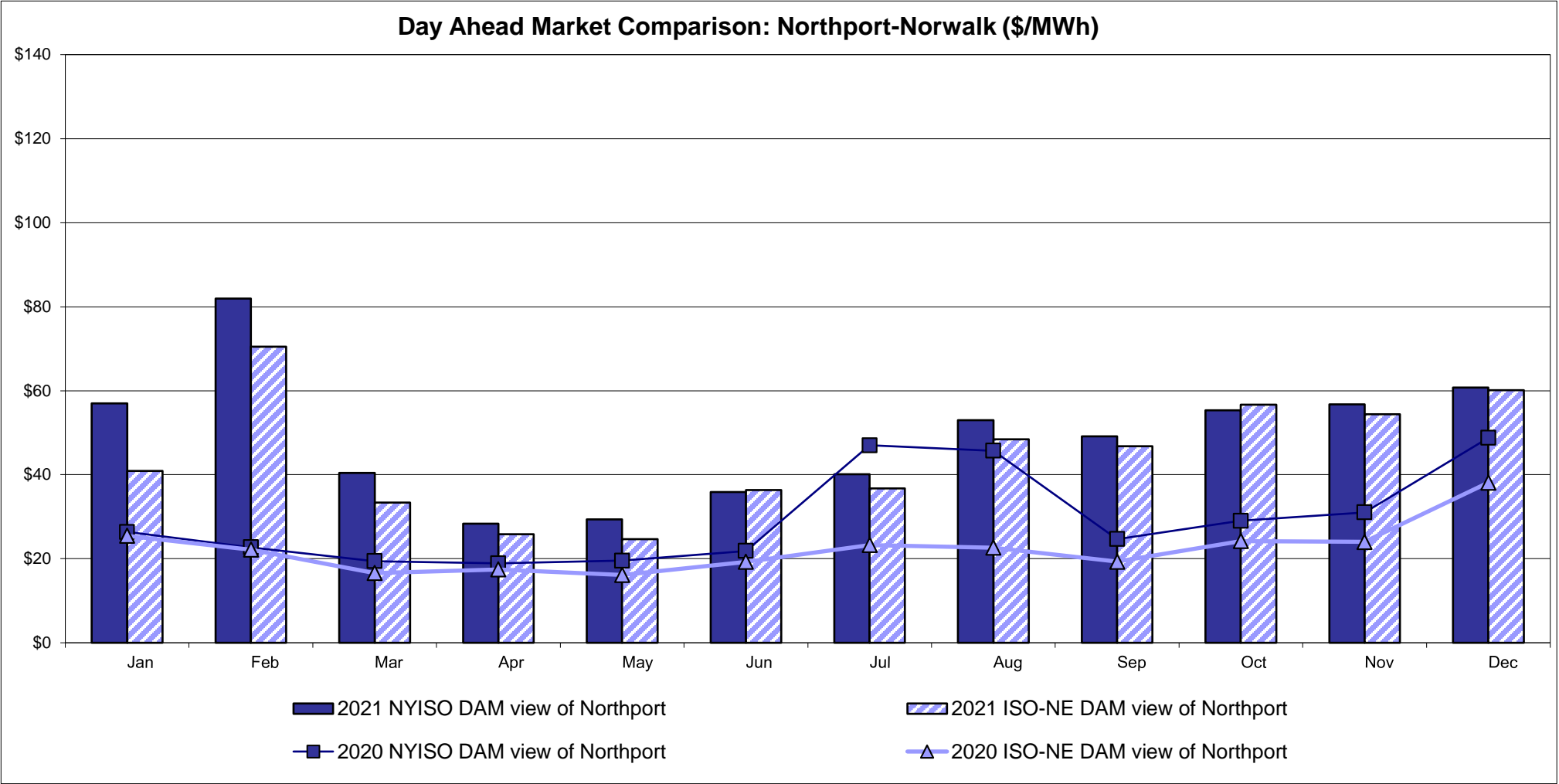
Pre-Dispatch: Projected Energy Price

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



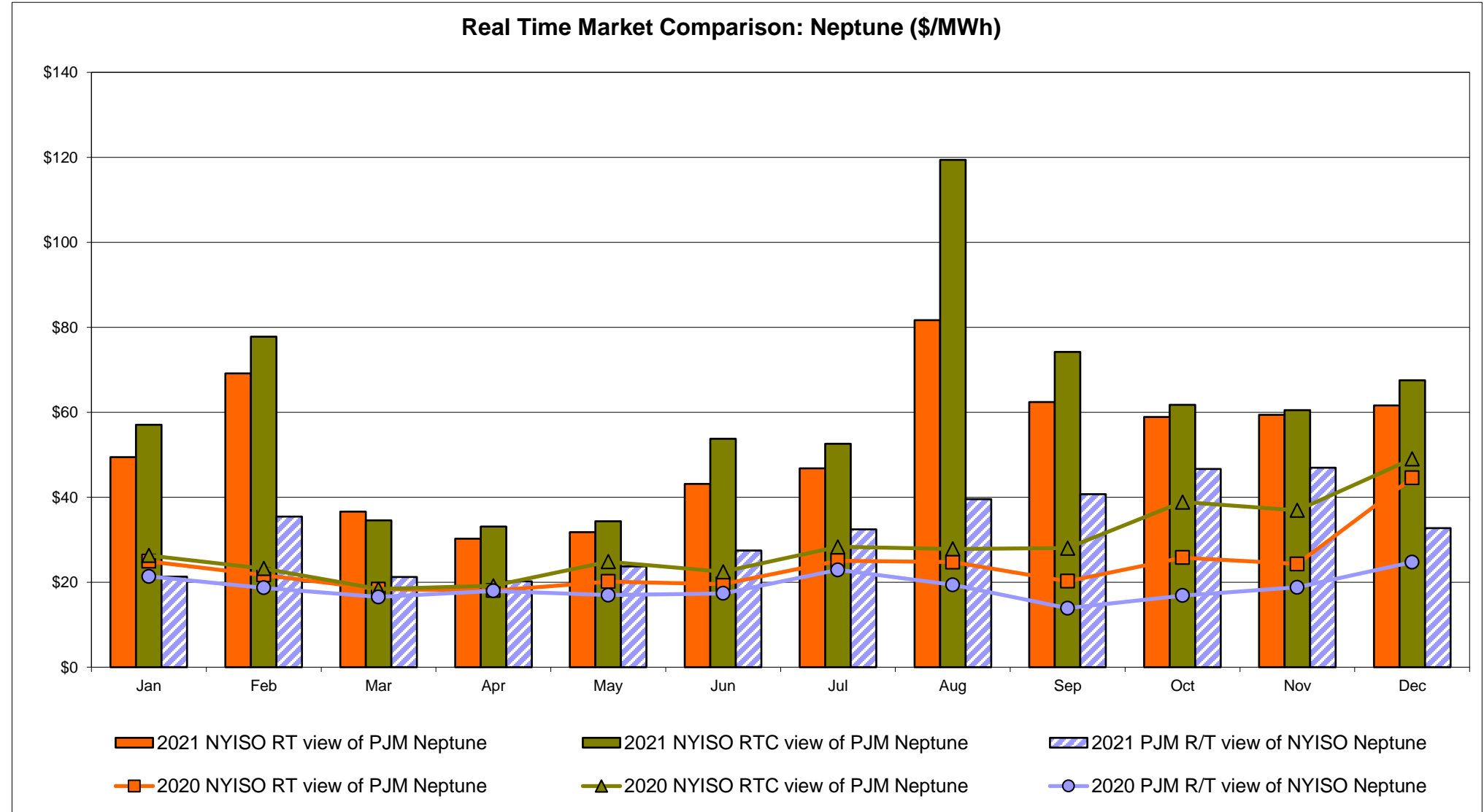
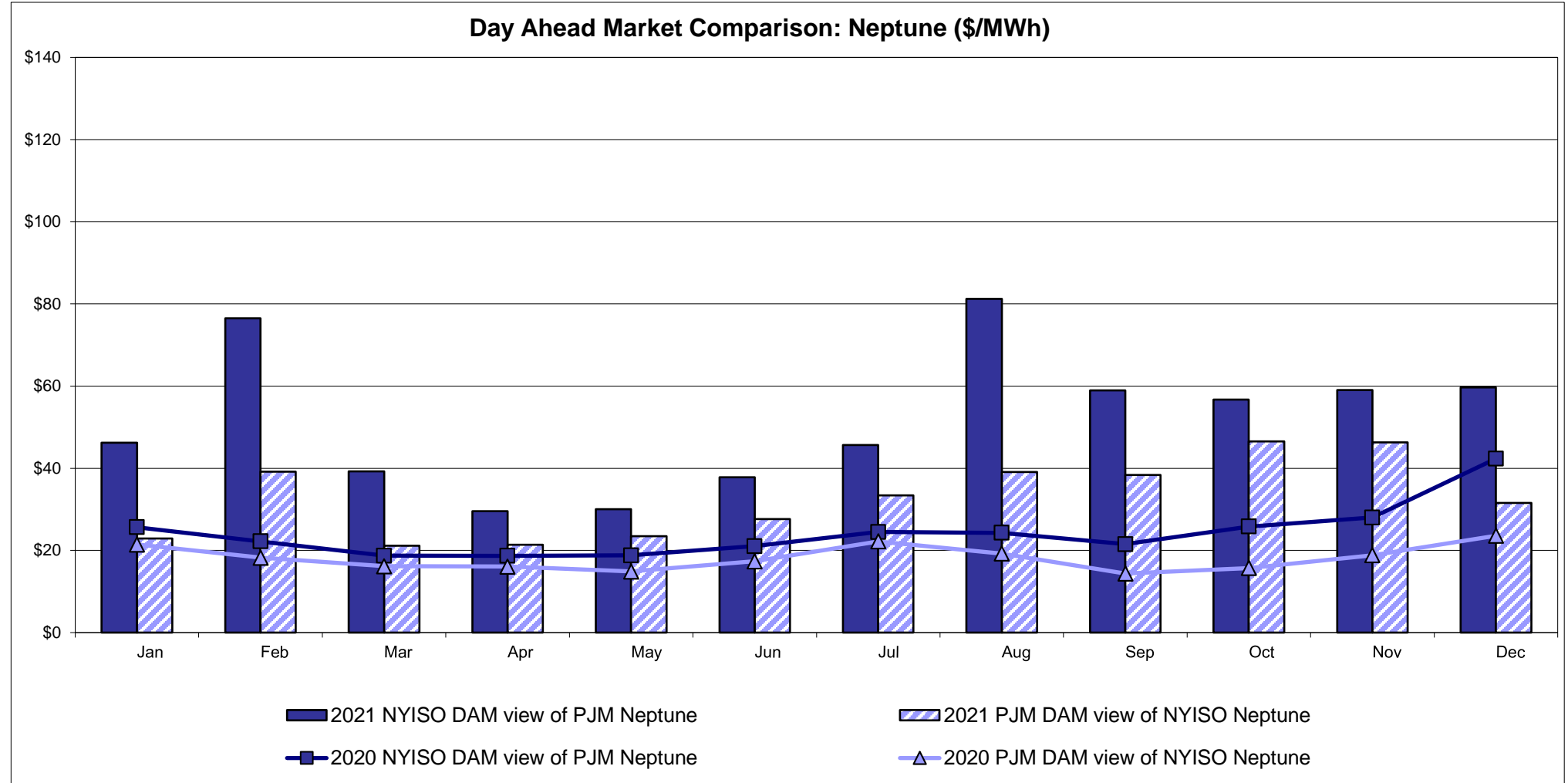
Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.  
The DAM and R/T prices at the CSC interface are used for NYISO.

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

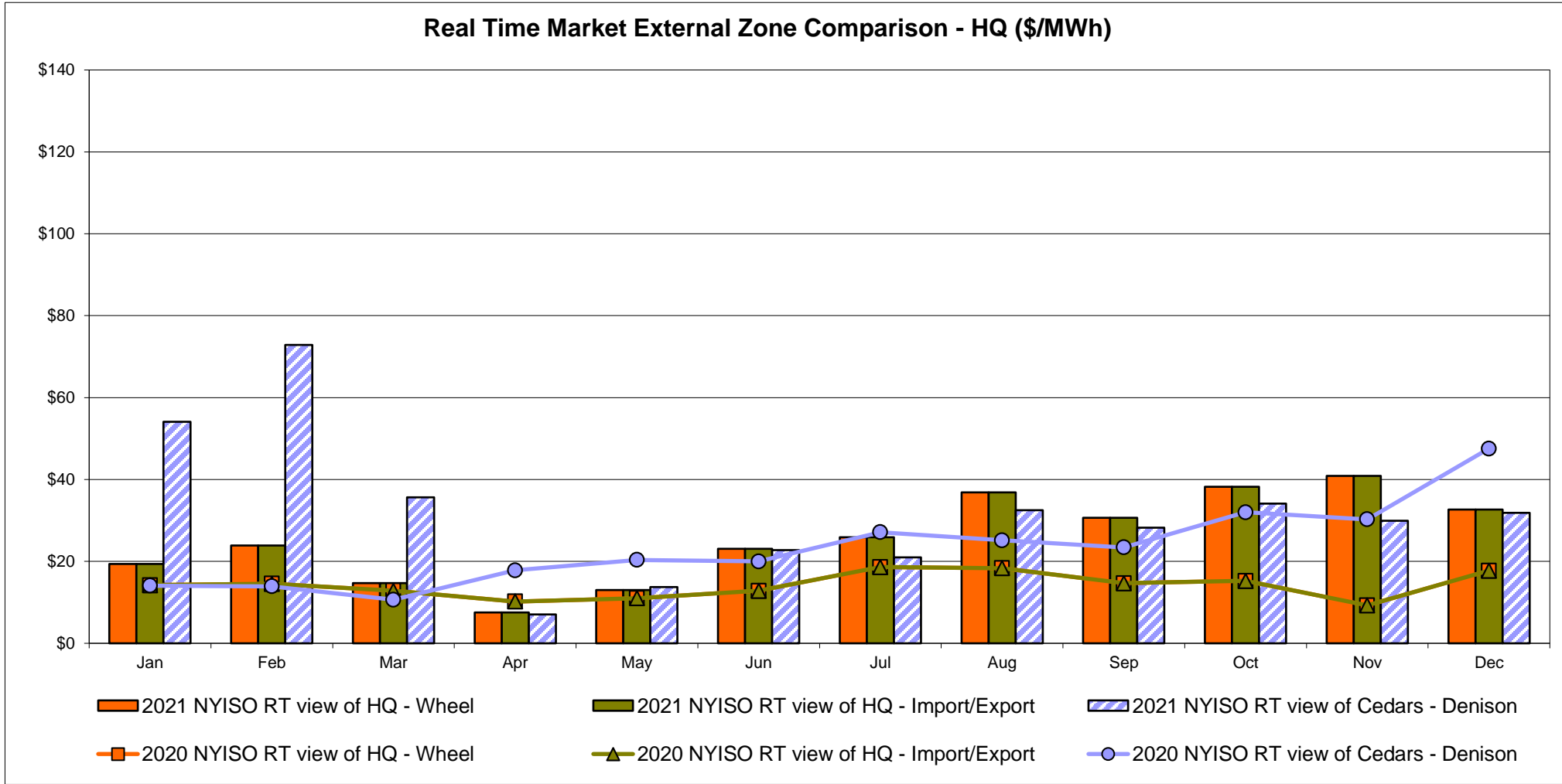
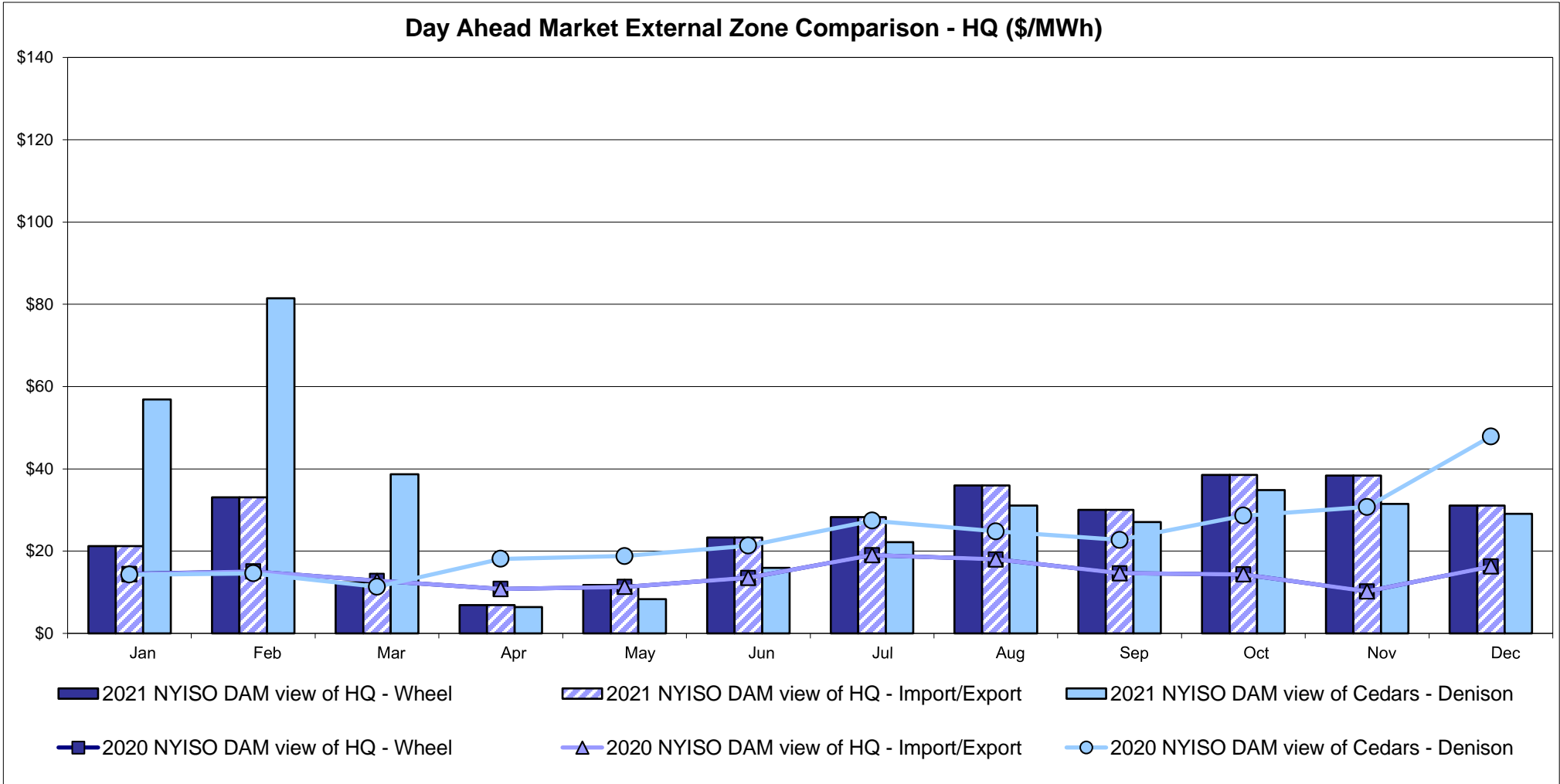


Note:  
ISO-NE Forecast is an advisory posting @ 18:00 day before.  
The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.  
The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

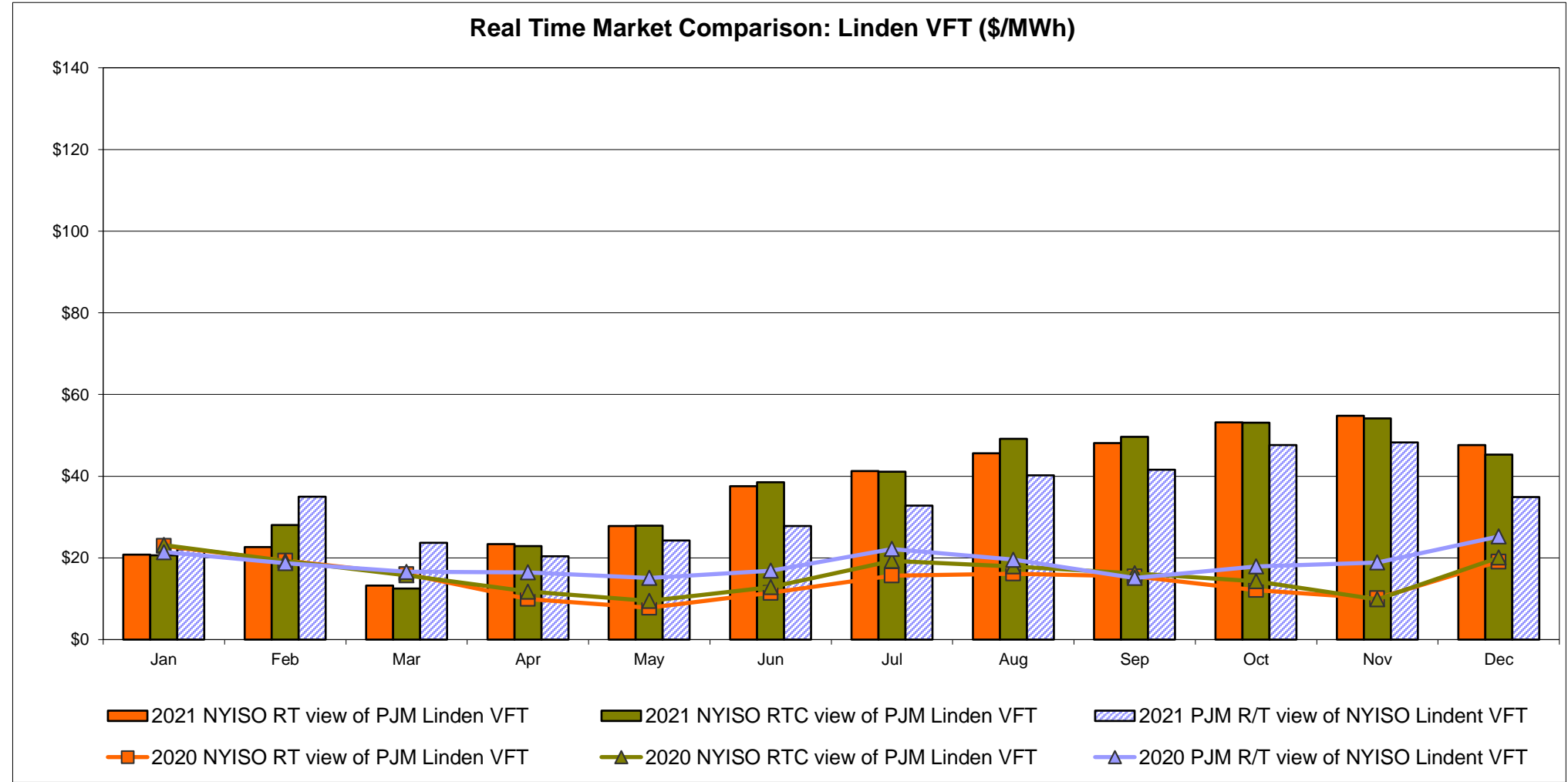
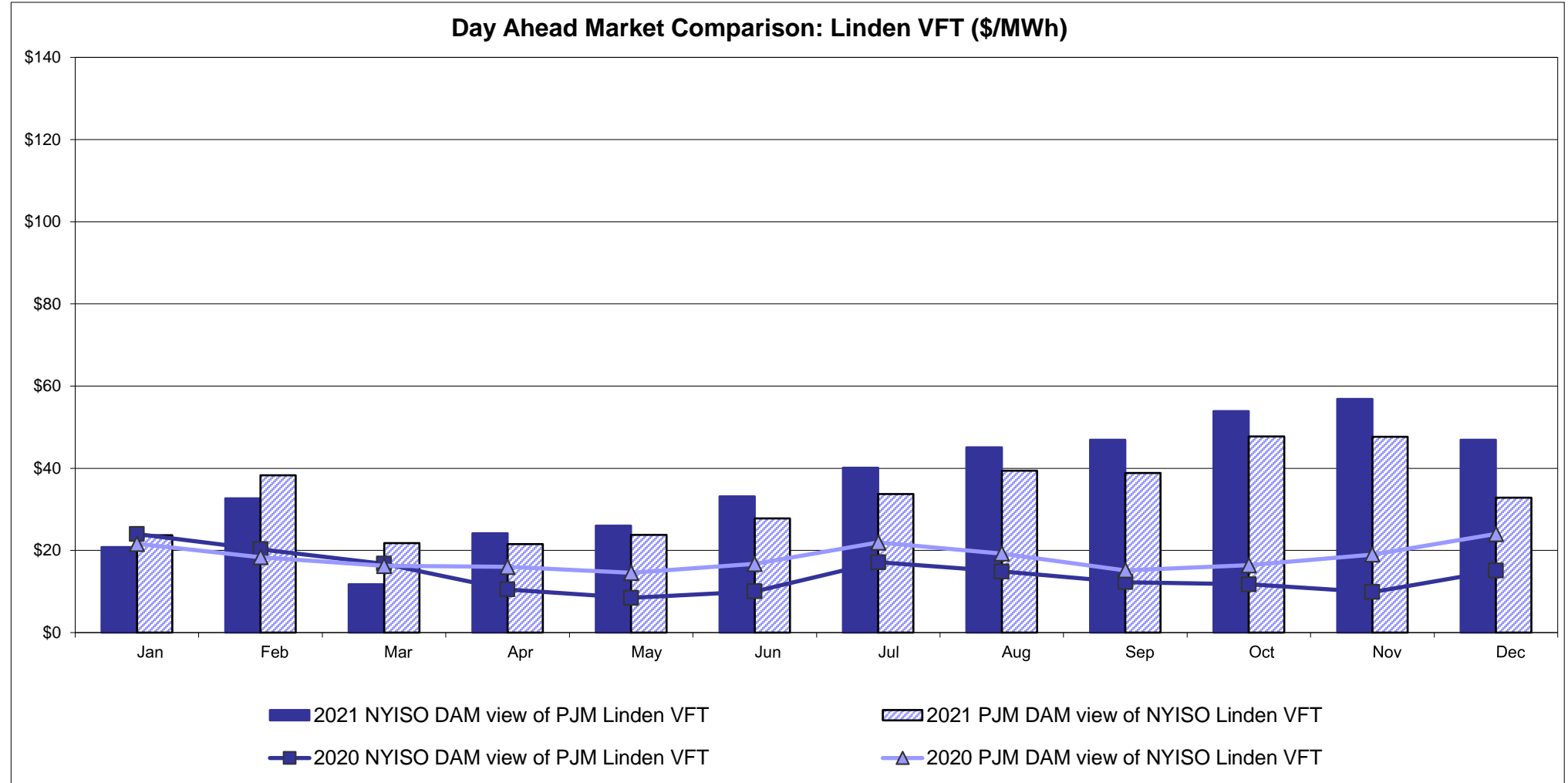


External Comparison Hydro-Quebec



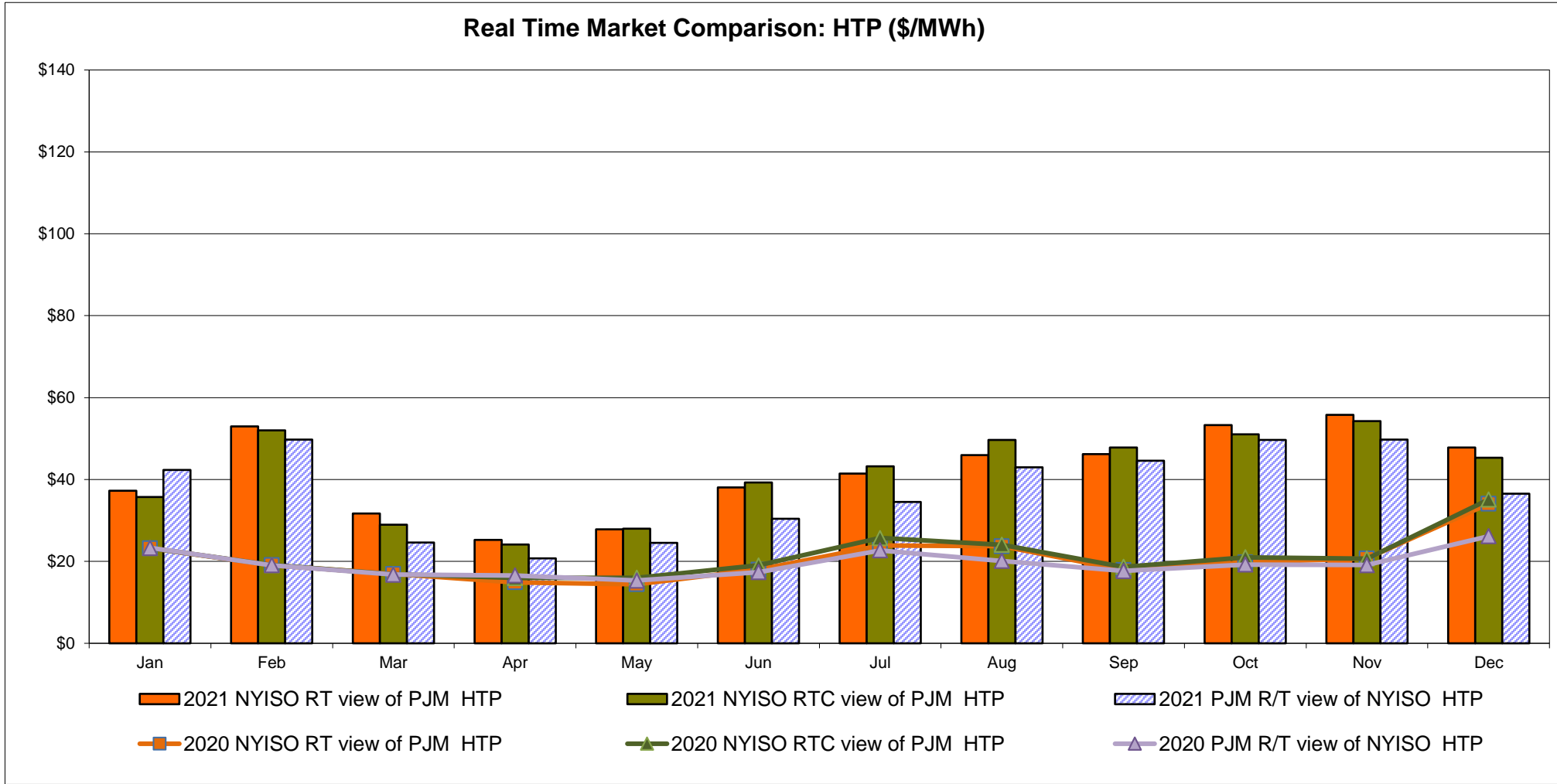
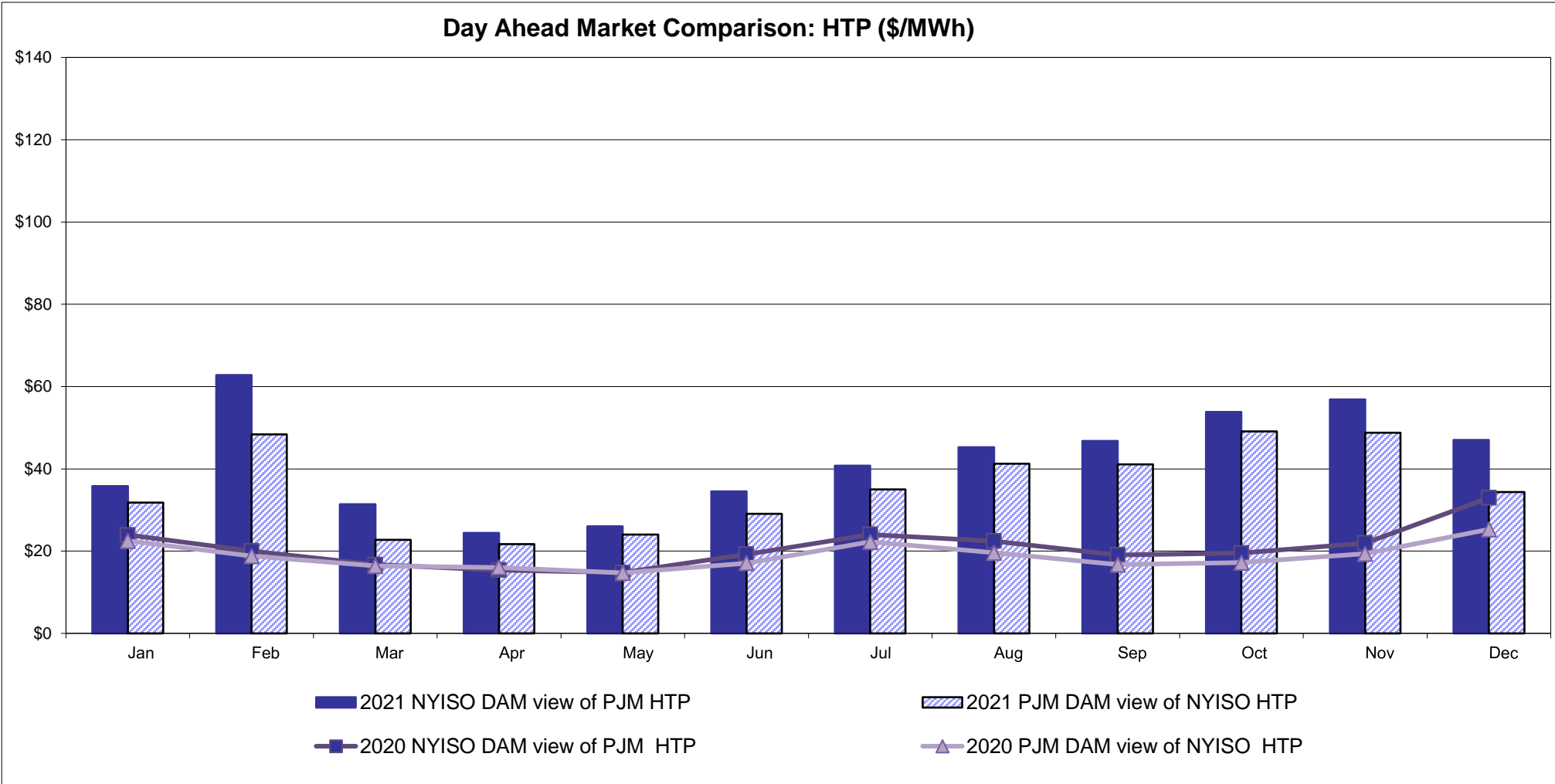
Note:  
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)





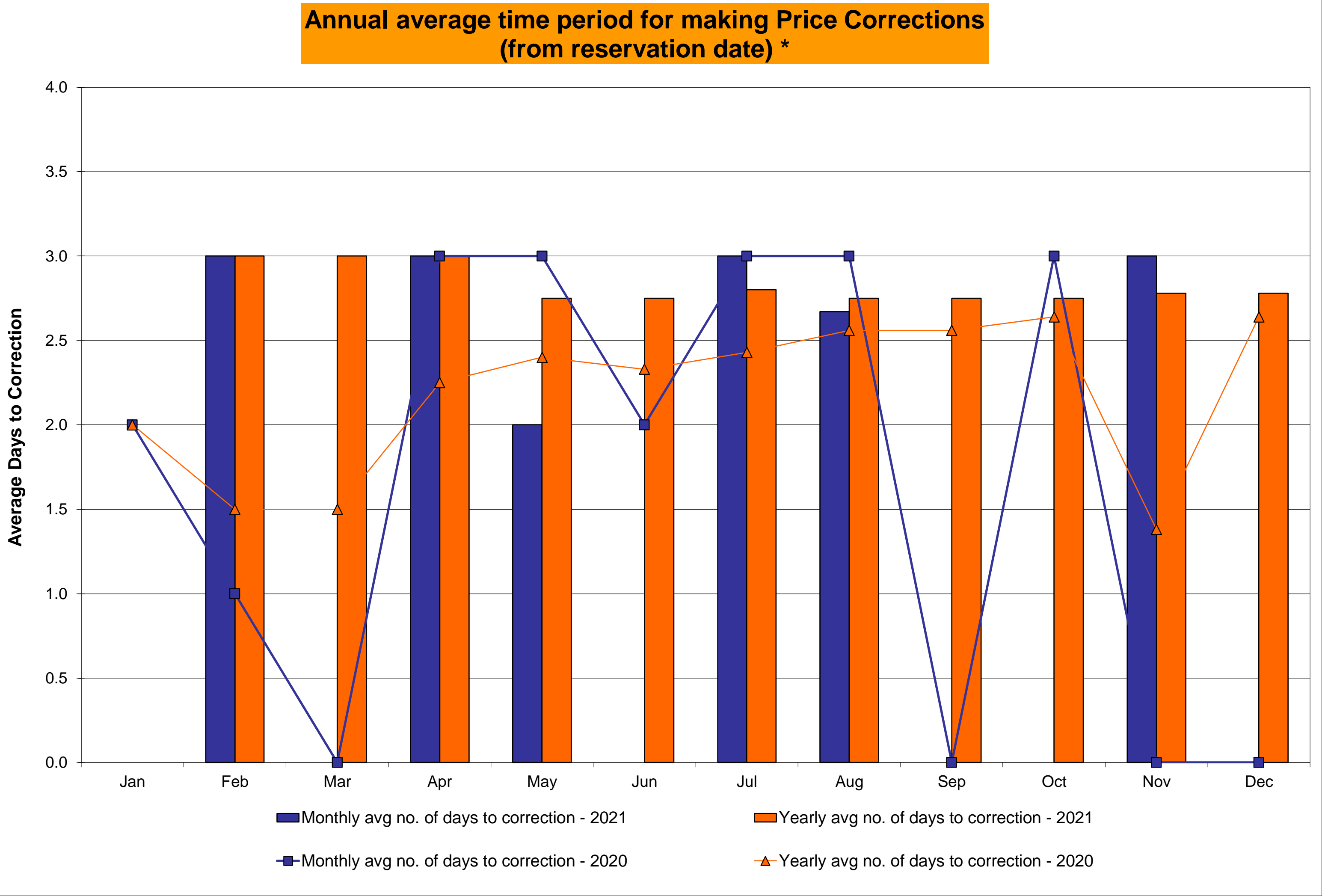
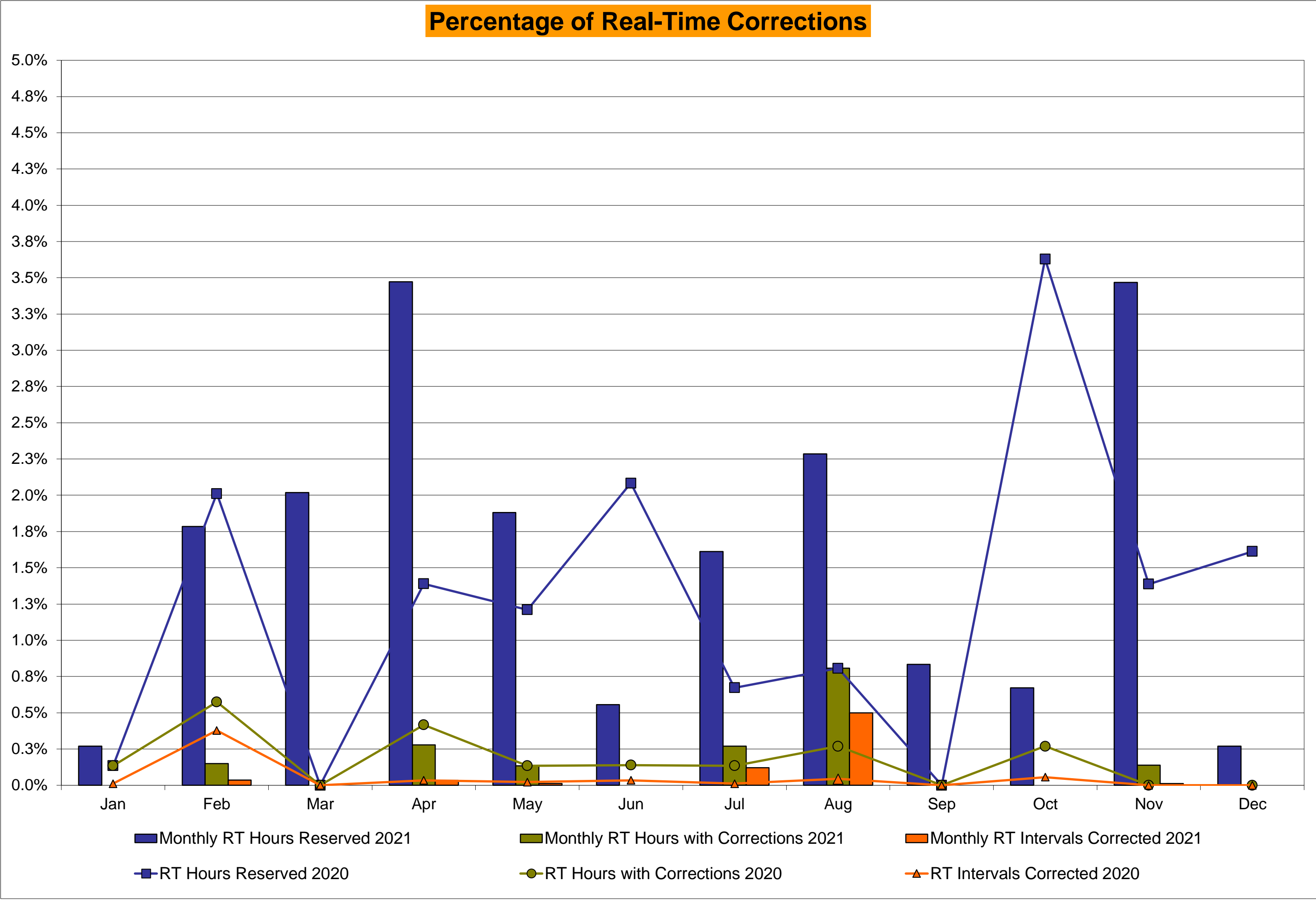
External Controllable Line: Hudson (PJM)



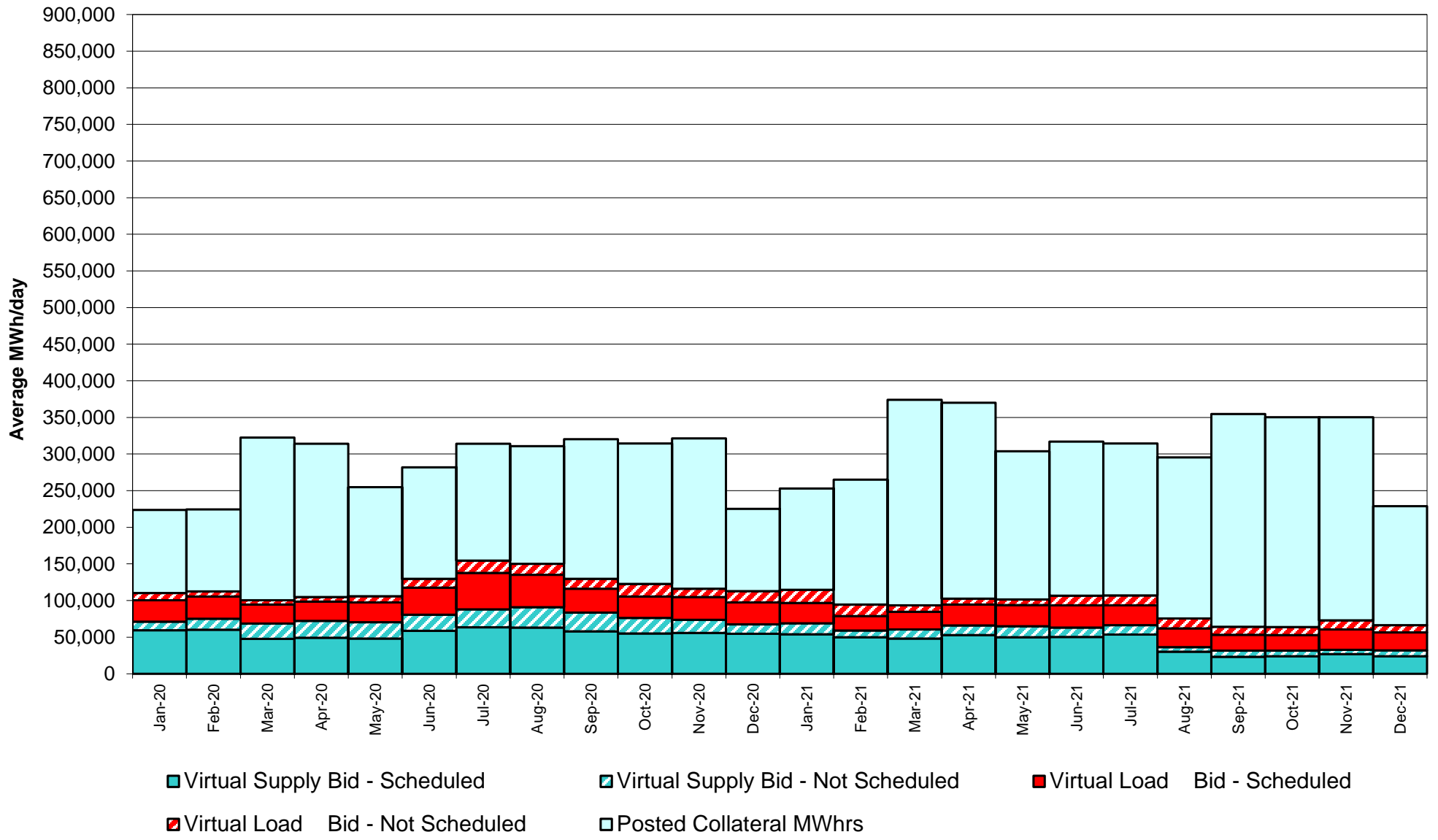
## NYISO Real Time Price Correction Statistics

<b>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><u>Hour Corrections</u></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><u>Interval Corrections</u></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><u>Hours Reserved</u></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><u>Days to Correction</u> *</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><u>Days Without Corrections</u></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
<b>2020</b>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>Hour Corrections</u></b>													
Number of hours with corrections	in the month	1	4	0	3	1	1	1	2	0	2	0	0
Number of hours	in the month	744	696	743	720	744	720	744	744	720	744	721	744
% of hours with corrections	in the month	0.13%	0.57%	0.00%	0.42%	0.13%	0.14%	0.13%	0.27%	0.00%	0.27%	0.00%	0.00%
% of hours with corrections	year-to-date	0.13%	0.35%	0.23%	0.28%	0.25%	0.23%	0.22%	0.22%	0.20%	0.20%	0.19%	0.17%
<b><u>Interval Corrections</u></b>													
Number of intervals corrected	in the month	1	32	0	3	2	3	1	4	0	5	0	0
Number of intervals	in the month	9,088	8,460	9,011	8,776	9,030	8,826	9,128	9,156	8,810	9,048	8,790	9,083
% of intervals corrected	in the month	0.01%	0.38%	0.00%	0.03%	0.02%	0.03%	0.01%	0.04%	0.00%	0.06%	0.00%	0.00%
% of intervals corrected	year-to-date	0.01%	0.19%	0.12%	0.10%	0.09%	0.08%	0.07%	0.06%	0.06%	0.06%	0.05%	0.05%
<b><u>Hours Reserved</u></b>													
Number of hours reserved	in the month	1	14	0	10	9	15	5	6	0	27	10	12
Number of hours	in the month	744	696	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	0.13%	2.01%	0.00%	1.39%	1.21%	2.08%	0.67%	0.81%	0.00%	3.63%	1.39%	1.61%
% of hours reserved	year-to-date	0.13%	1.04%	0.69%	0.86%	0.93%	1.12%	1.06%	1.02%	0.91%	1.19%	1.21%	1.24%
<b><u>Days to Correction</u> *</b>													
Avg. number of days to correction	in the month	2.00	1.00	0.00	3.00	3.00	2.00	3.00	3.00	0.00	3.00	0.00	0.00
Avg. number of days to correction	year-to-date	2.00	1.50	1.50	2.25	2.40	2.33	2.43	2.56	2.56	2.64	1.38	2.64
<b><u>Days Without Corrections</u></b>													
Days without corrections	in the month	30	28	31	28	30	29	30	29	30	29	30	31
Days without corrections	year-to-date	30	58	89	117	147	176	206	235	265	294	324	355

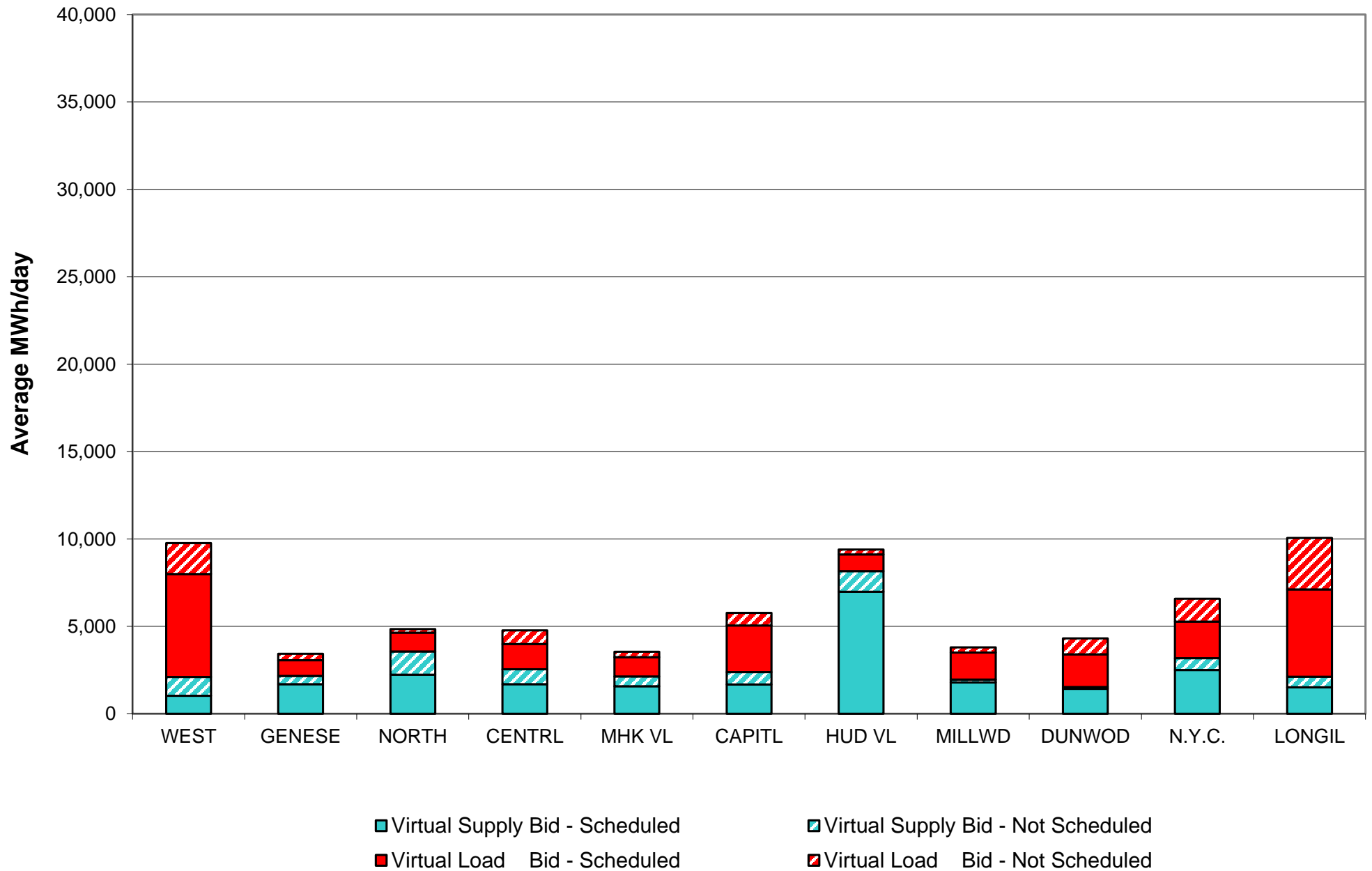
\*Calendar days from reservation date; for June 2018 forward, business days from market date



# NYISO Virtual Trading Average MWh per day



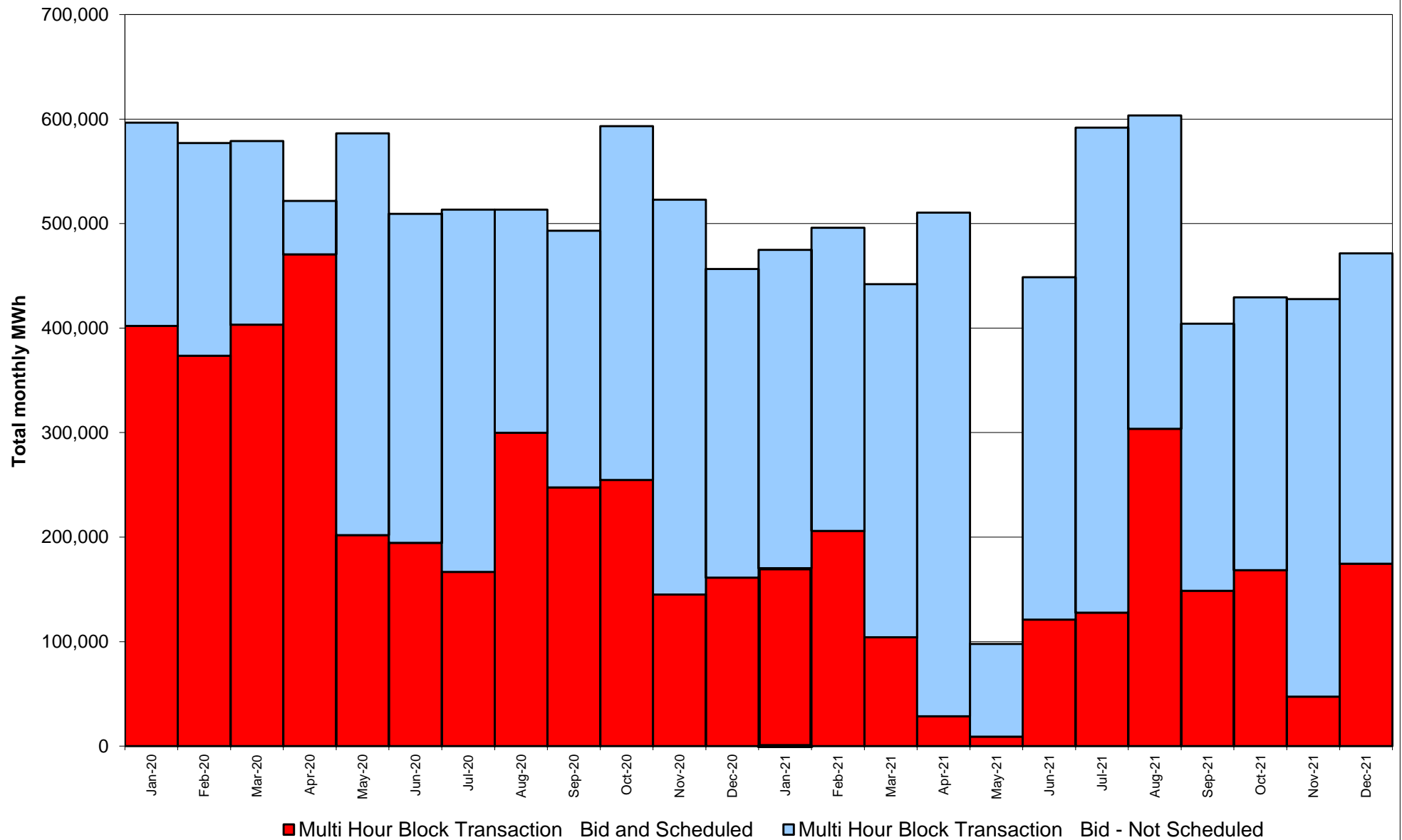
# Virtual Load and Supply Zonal Statistics through December 31, 2021



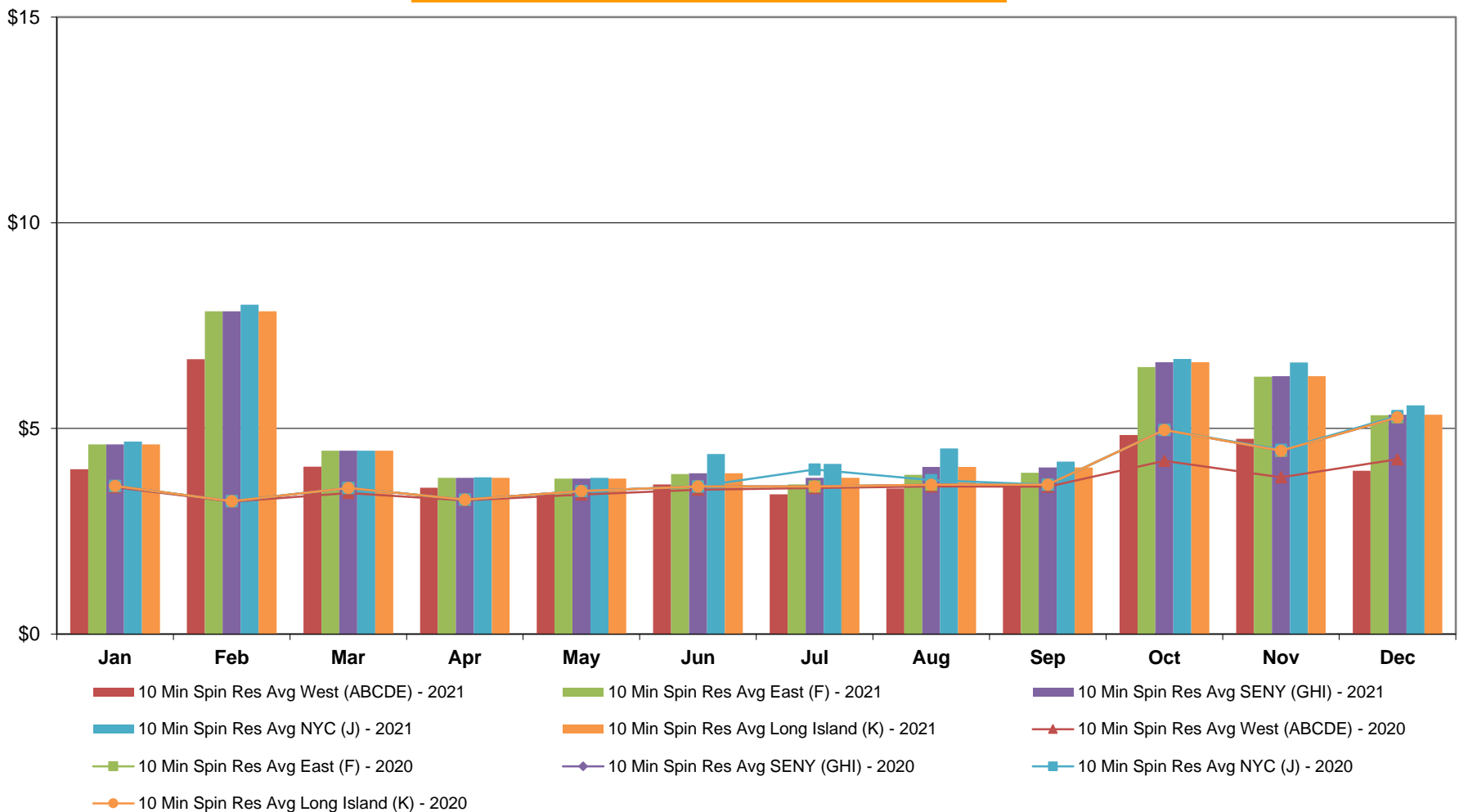
## Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2021

		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
WEST	Jan-21	6,262	1,726	2,018	1,076		MHK VL	Jan-21	1,537	548	1,967	531		DUNWOD	Jan-21	1,881	2,339
	Feb-21	4,588	1,544	1,842	959			Feb-21	1,031	584	2,081	392			Feb-21	912	1,806
	Mar-21	5,696	840	1,144	893			Mar-21	1,669	305	1,402	524			Mar-21	1,303	817
	Apr-21	6,747	1,100	1,948	873			Apr-21	1,741	366	1,982	670			Apr-21	1,519	638
	May-21	7,289	1,632	1,432	630			May-21	1,279	353	2,009	447			May-21	3,219	868
	Jun-21	4,916	1,989	1,498	559			Jun-21	1,400	438	1,637	283			Jun-21	2,411	1,770
	Jul-21	3,954	2,328	1,857	1,390			Jul-21	951	412	2,439	413			Jul-21	2,349	1,494
	Aug-21	4,542	3,007	1,848	1,078			Aug-21	928	532	1,641	337			Aug-21	1,769	1,260
	Sep-21	4,520	2,511	1,473	777			Sep-21	758	447	1,865	660			Sep-21	1,347	718
	Oct-21	5,995	2,737	1,161	766			Oct-21	846	564	1,589	192			Oct-21	1,314	594
	Nov-21	6,723	2,557	1,142	776			Nov-21	1,255	578	1,527	281			Nov-21	1,103	1,325
	Dec-21	5,888	1,764	1,032	1,073			Dec-21	1,105	299	1,572	566			Dec-21	1,872	919
GENESE	Jan-21	1,117	329	1,085	853		CAPITL	Jan-21	3,046	1,995	2,207	792		N.Y.C.	Jan-21	3,486	2,580
	Feb-21	857	390	1,310	617			Feb-21	2,483	1,967	2,065	535			Feb-21	1,983	2,475
	Mar-21	817	295	1,433	833			Mar-21	3,192	1,581	2,230	1,041			Mar-21	2,149	1,385
	Apr-21	1,396	466	1,251	834			Apr-21	2,770	1,075	3,404	694			Apr-21	2,116	602
	May-21	862	431	1,680	486			May-21	1,417	532	2,776	837			May-21	2,664	678
	Jun-21	653	393	1,426	390			Jun-21	2,396	994	2,144	636			Jun-21	5,791	1,832
	Jul-21	603	394	2,451	500			Jul-21	1,350	632	2,598	1,069			Jul-21	6,538	2,006
	Aug-21	660	614	1,289	395			Aug-21	1,478	548	2,052	657			Aug-21	7,676	2,095
	Sep-21	672	435	1,692	455			Sep-21	1,145	664	1,885	922			Sep-21	5,286	2,466
	Oct-21	653	567	2,139	272			Oct-21	1,376	622	1,860	382			Oct-21	3,123	1,818
	Nov-21	890	575	1,835	385			Nov-21	4,596	1,041	1,676	480			Nov-21	2,539	1,610
	Dec-21	905	367	1,695	463			Dec-21	2,669	721	1,679	706			Dec-21	2,086	1,306
NORTH	Jan-21	830	498	3,280	1,220		HUD VL	Jan-21	1,666	1,215	5,917	7,429		LONGIL	Jan-21	4,341	4,976
	Feb-21	405	410	2,654	1,258			Feb-21	1,685	1,148	4,967	2,247			Feb-21	3,899	3,560
	Mar-21	641	125	3,152	2,052			Mar-21	1,013	455	5,555	3,086			Mar-21	4,846	2,196
	Apr-21	1,031	278	3,310	1,622			Apr-21	1,096	411	6,547	5,166			Apr-21	6,288	1,581
	May-21	1,041	164	3,171	1,703			May-21	1,658	425	5,040	8,201			May-21	6,112	1,898
	Jun-21	1,051	294	2,897	1,454			Jun-21	1,758	692	7,862	7,556			Jun-21	6,451	3,532
	Jul-21	839	217	2,827	1,134			Jul-21	934	547	7,395	5,215			Jul-21	5,218	3,792
	Aug-21	876	525	2,125	733			Aug-21	1,199	533	5,596	798			Aug-21	2,406	2,764
	Sep-21	696	462	2,757	1,413			Sep-21	1,091	498	5,982	2,490			Sep-21	3,229	1,448
	Oct-21	551	449	3,166	768			Oct-21	1,044	557	6,779	3,416			Oct-21	4,411	1,433
	Nov-21	732	438	3,141	1,221			Nov-21	935	547	9,027	1,163			Nov-21	5,443	2,001
	Dec-21	1,073	202	2,242	1,322			Dec-21	958	282	6,973	1,185			Dec-21	4,992	2,944
CENTRL	Jan-21	2,124	938	28,034	1,094		MILLWD	Jan-21	1,368	672	1,820	139		NYISO	Jan-21	27,659	17,816
	Feb-21	1,357	1,102	27,531	954			Feb-21	530	541	1,463	115			Feb-21	19,732	15,526
	Mar-21	2,108	541	24,874	888			Mar-21	731	240	1,732	175			Mar-21	24,164	8,780
	Apr-21	3,179	941	25,006	1,249			Apr-21	775	359	2,106	126			Apr-21	28,658	7,818
	May-21	1,973	708	27,134	433			May-21	1,245	245	1,386	145			May-21	28,758	7,933
	Jun-21	1,508	672	27,029	512			Jun-21	2,049	506	1,203	85			Jun-21	30,385	13,112
	Jul-21	974	820	27,958	965			Jul-21	3,381	822	1,292	293			Jul-21	27,090	13,465
	Aug-21	1,269	1,070	9,724	646			Aug-21	2,800	650	1,197	259			Aug-21	25,602	13,598
	Sep-21	1,031	831	1,870	591			Sep-21	1,750	635	1,335	234			Sep-21	21,526	11,116
	Oct-21	1,039	1,010	1,841	459			Oct-21	996	367	1,324	183			Oct-21	21,349	10,720
	Nov-21	1,690	1,301	2,127	594			Nov-21	1,914	439	1,473	152			Nov-21	27,820	12,411
	Dec-21	1,448	775	1,684	860			Dec-21	1,540	300	1,791	171			Dec-21	24,536	9,879

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

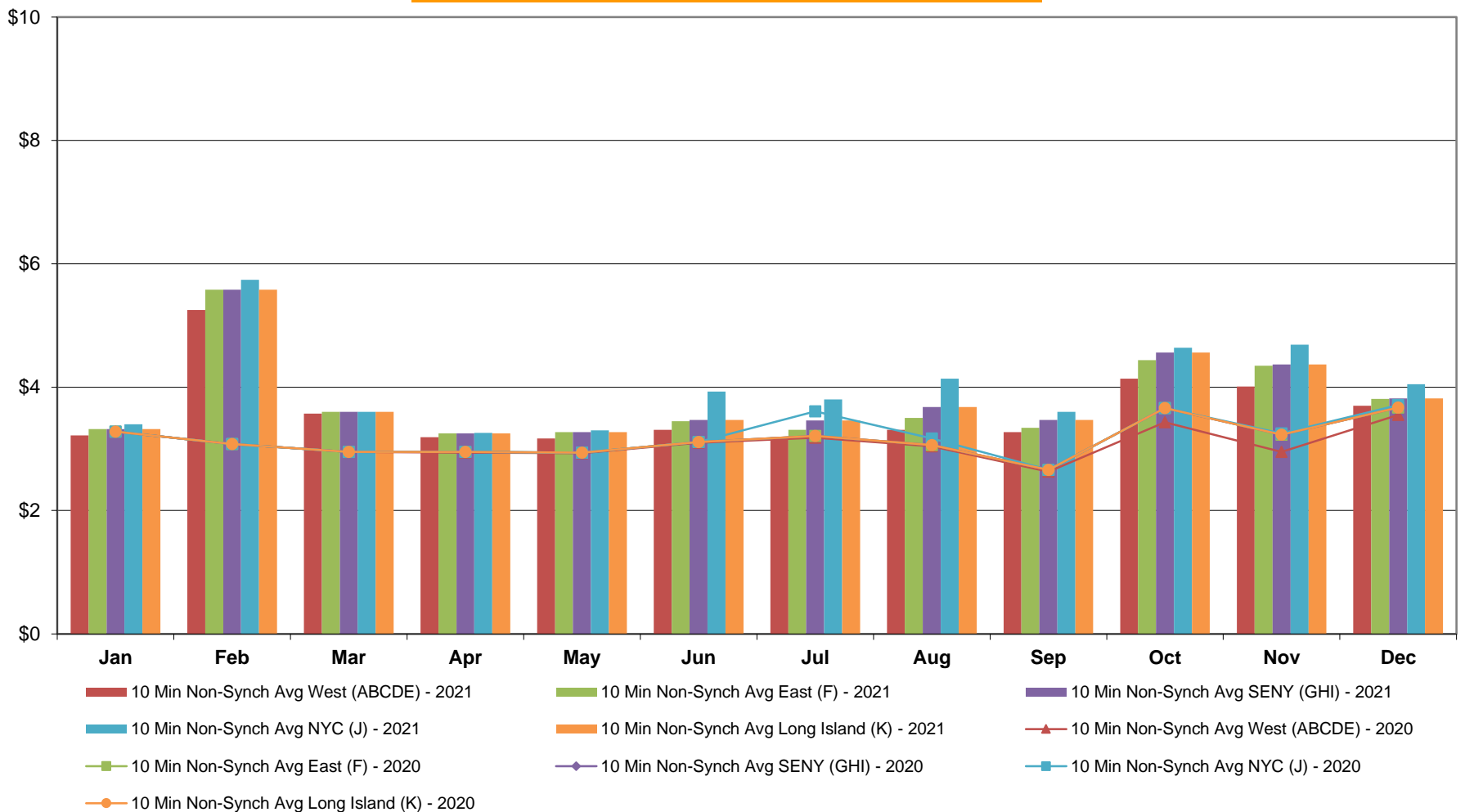


**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 10 Min Spin 2020 - 2021**

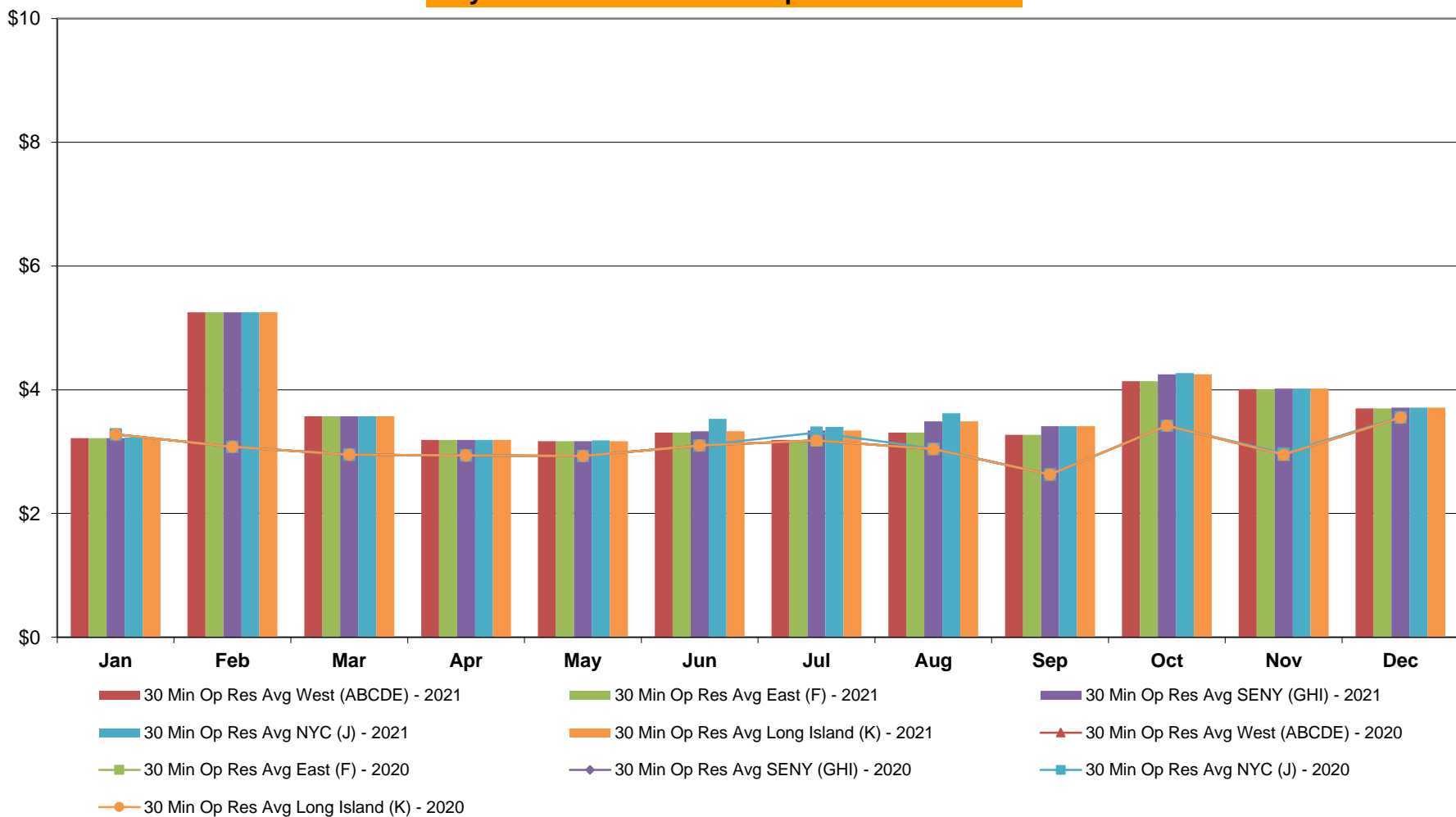




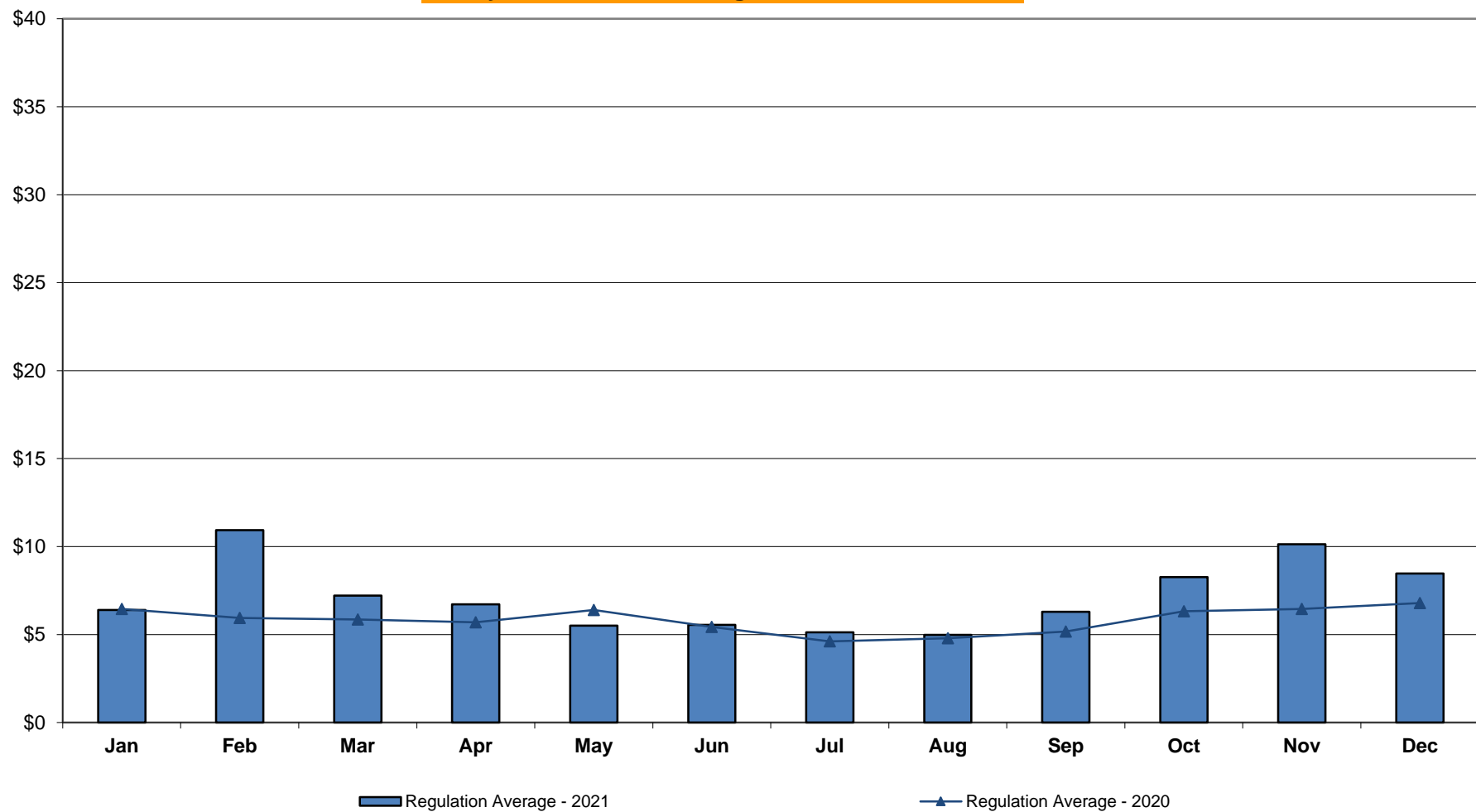
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 10 Min Non-Synch 2020 - 2021**



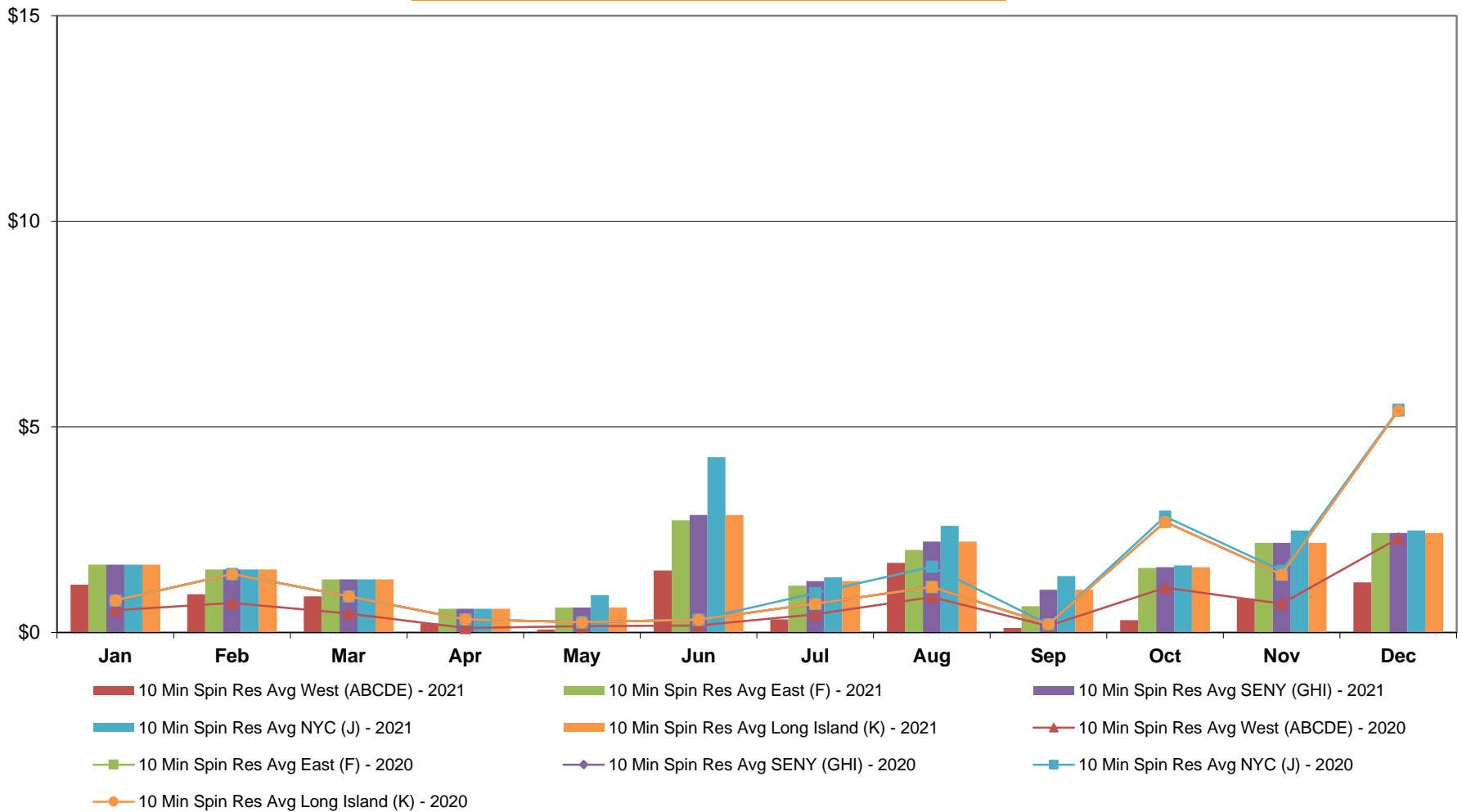
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - 30 Min Op Res 2020 - 2021**



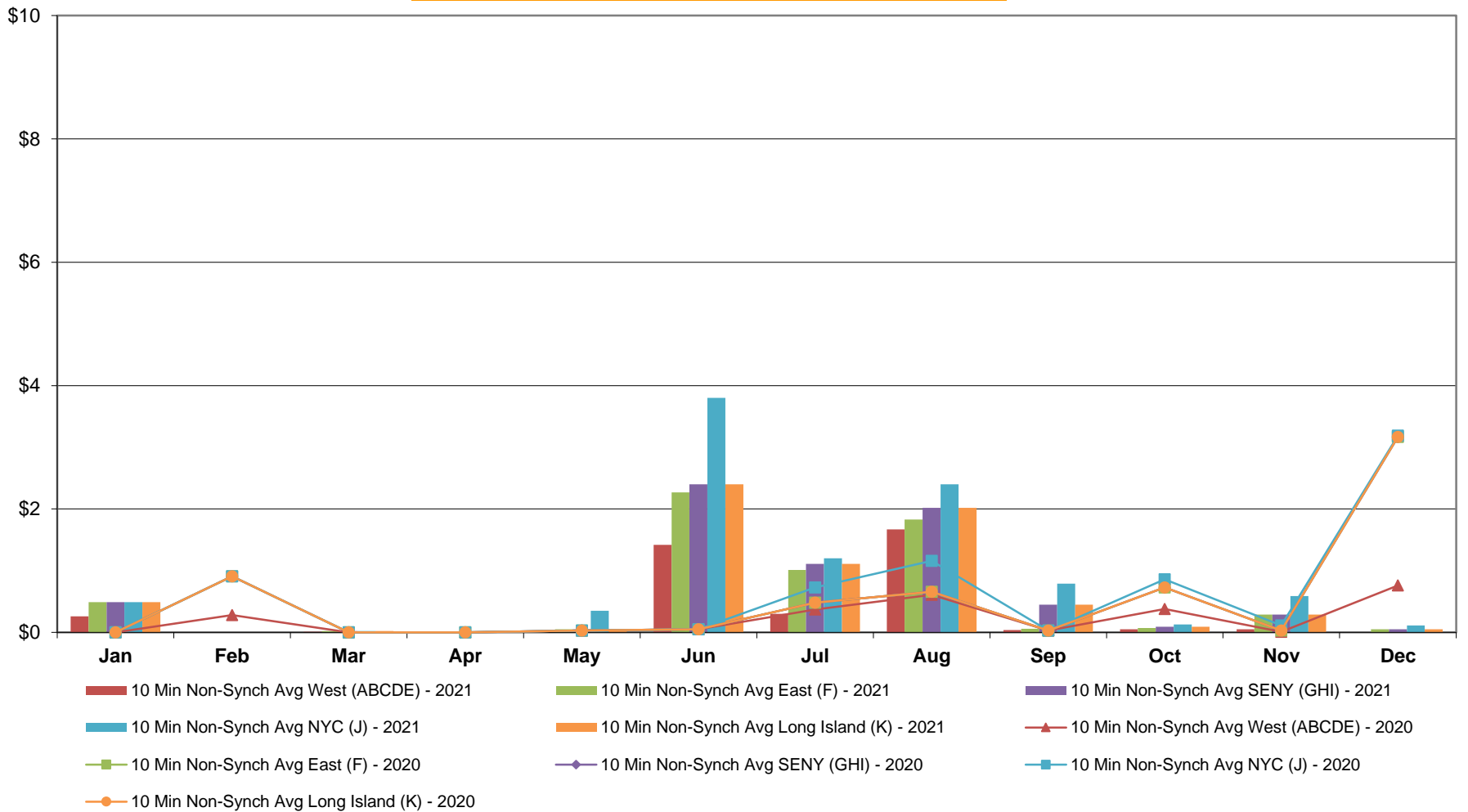
**NYISO Monthly Average Ancillary Service Prices  
Day Ahead Market - Regulation 2020 - 2021**



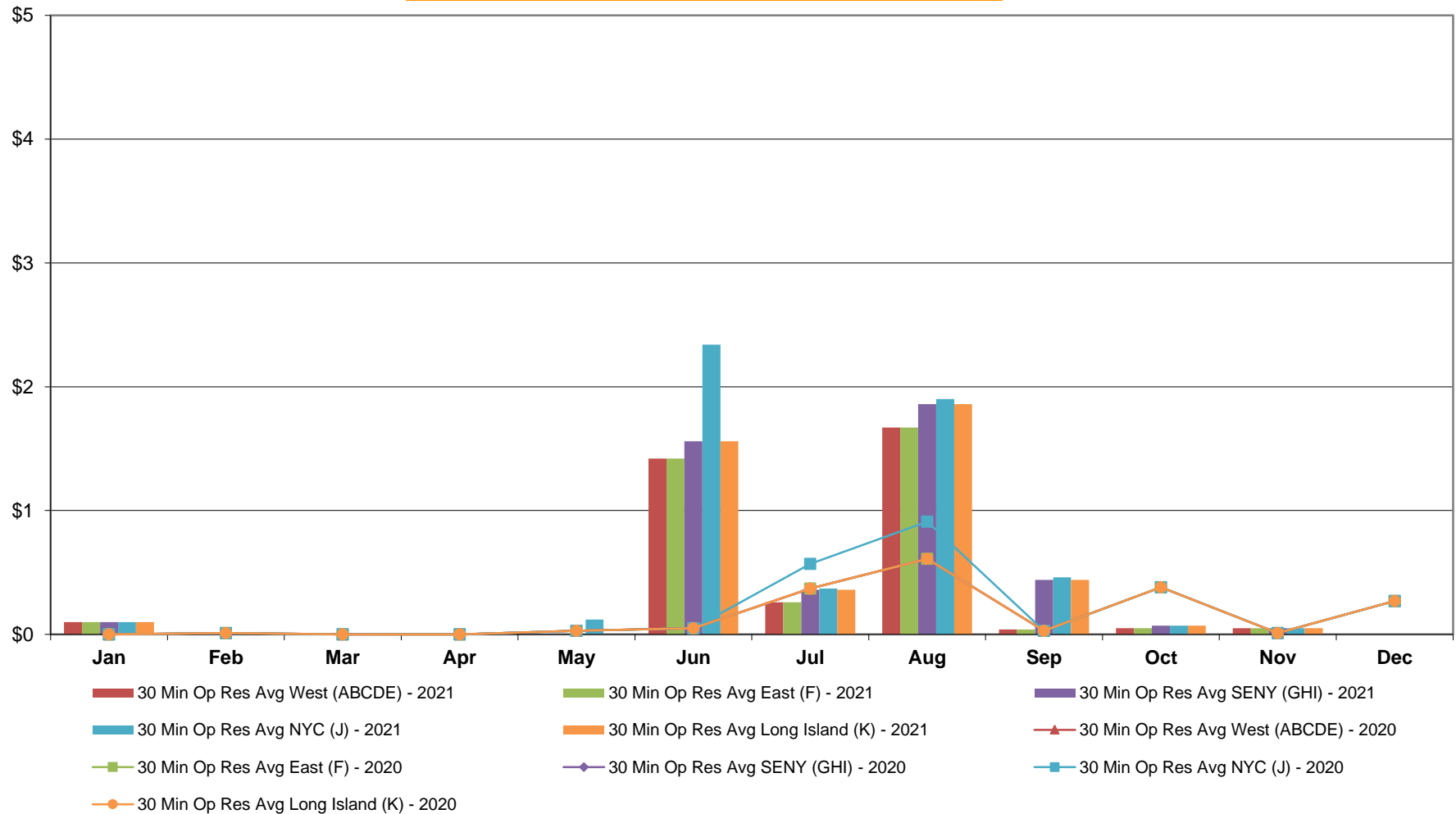
# **NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Spin 2020 - 2021**



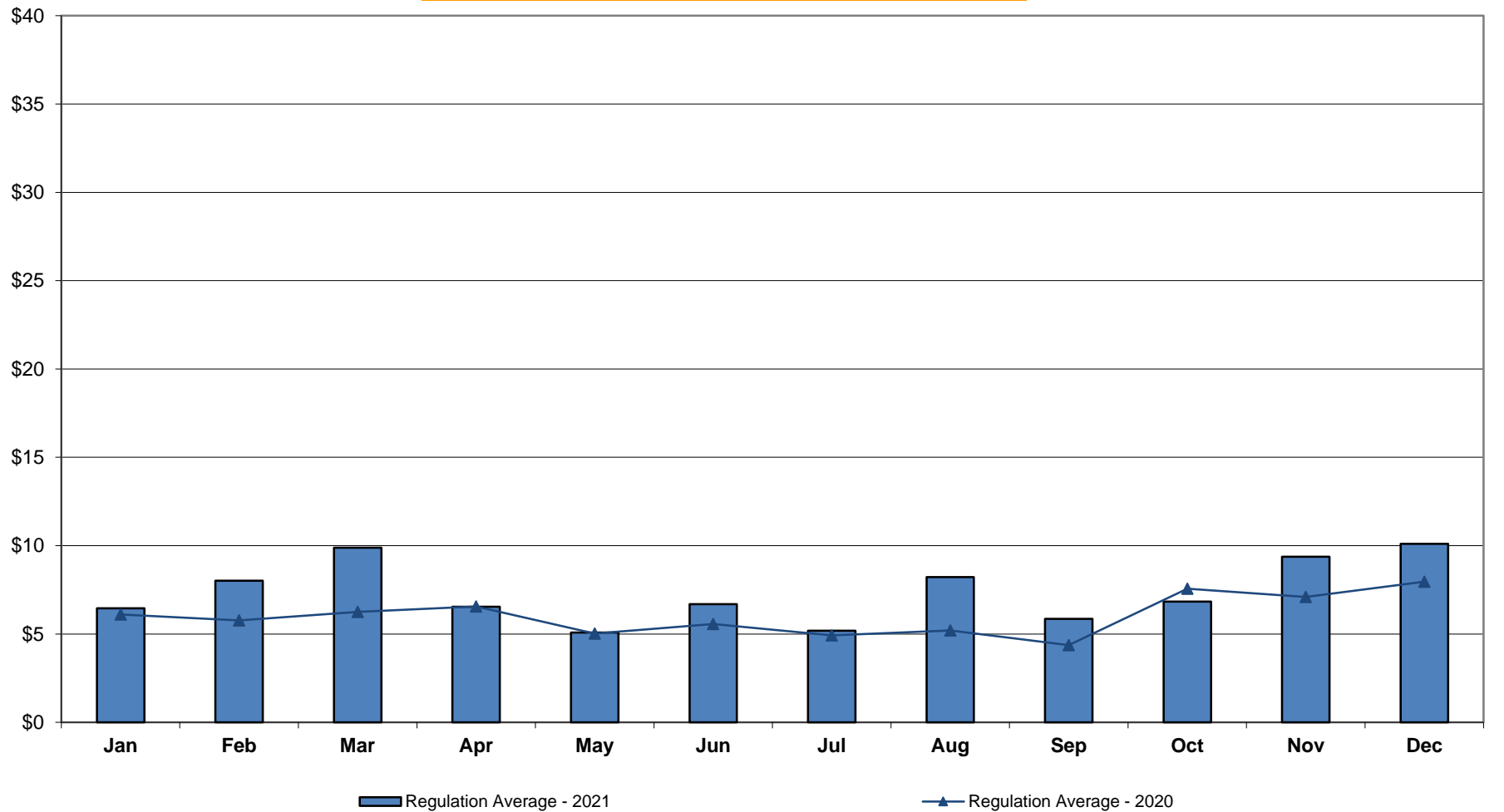
# **NYISO Monthly Average Ancillary Service Prices RTC Market - 10 Min Non-Synch 2020 - 2021**



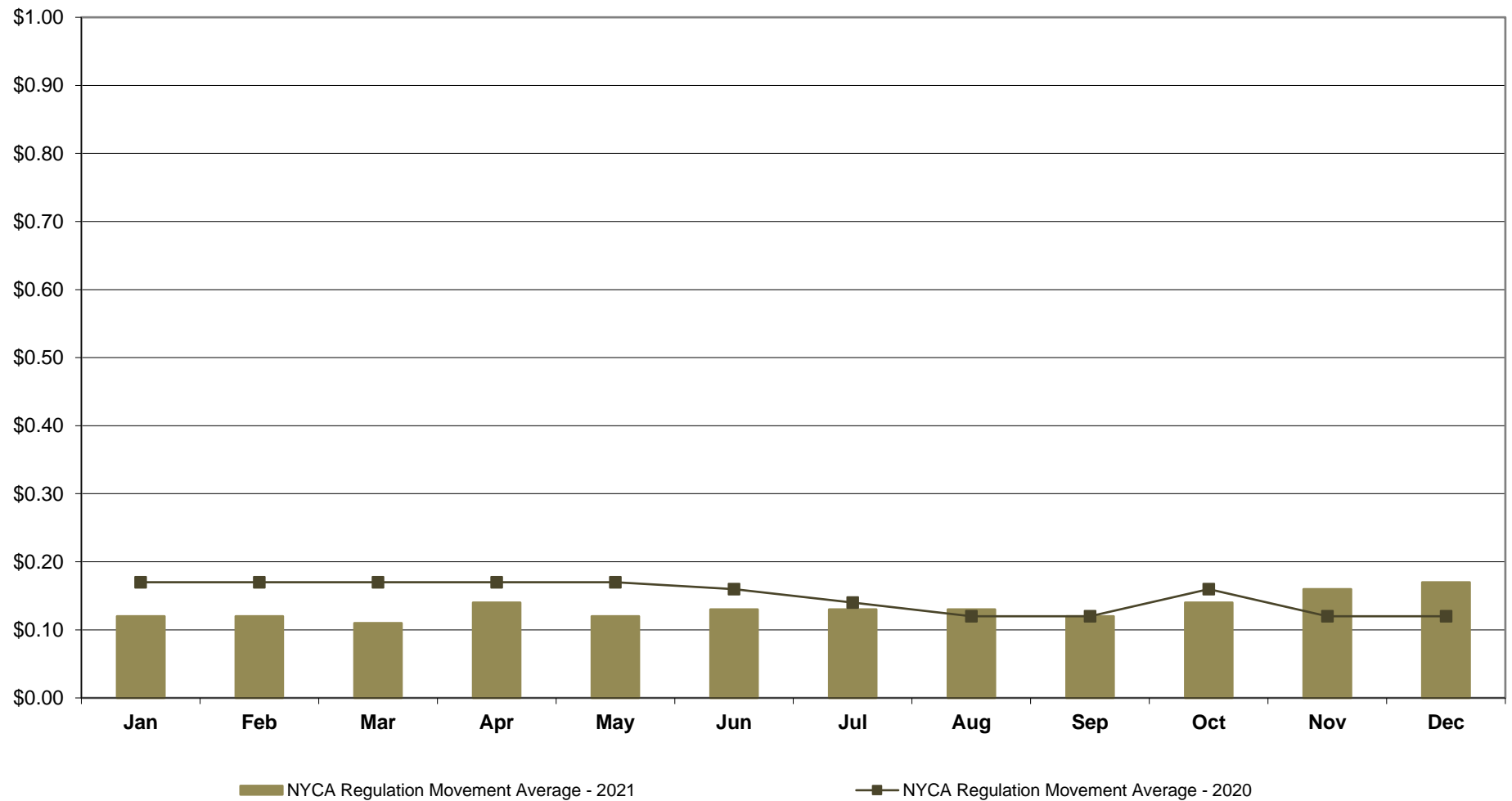
# **NYISO Monthly Average Ancillary Service Prices RTC Market - 30 Min Op Res 2020 - 2021**



**NYISO Monthly Average Ancillary Service Prices  
RTC Market - Regulation 2020 - 2021**

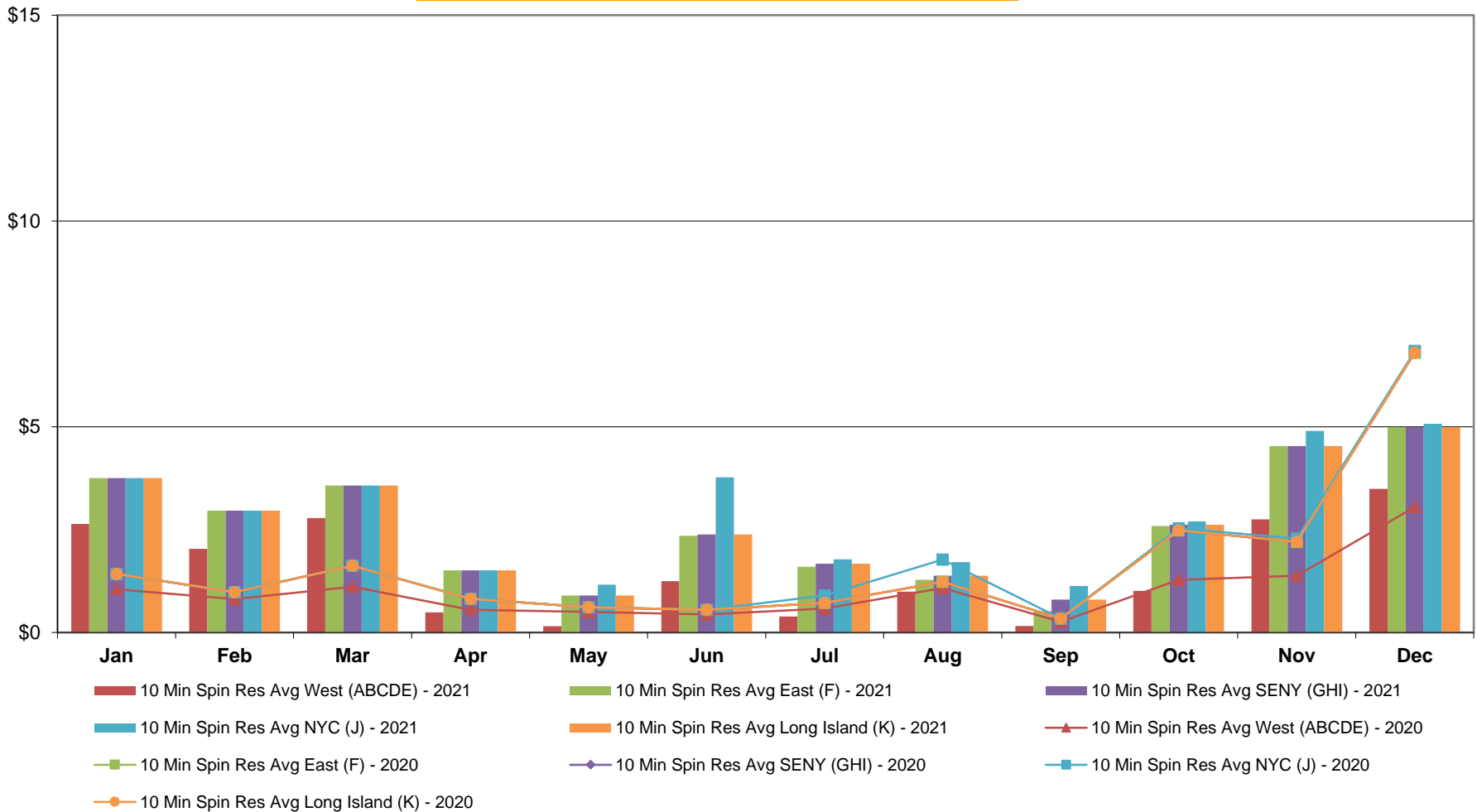


# **NYISO Monthly Average Ancillary Service Prices RTC Market - Regulation Movement 2020 - 2021**

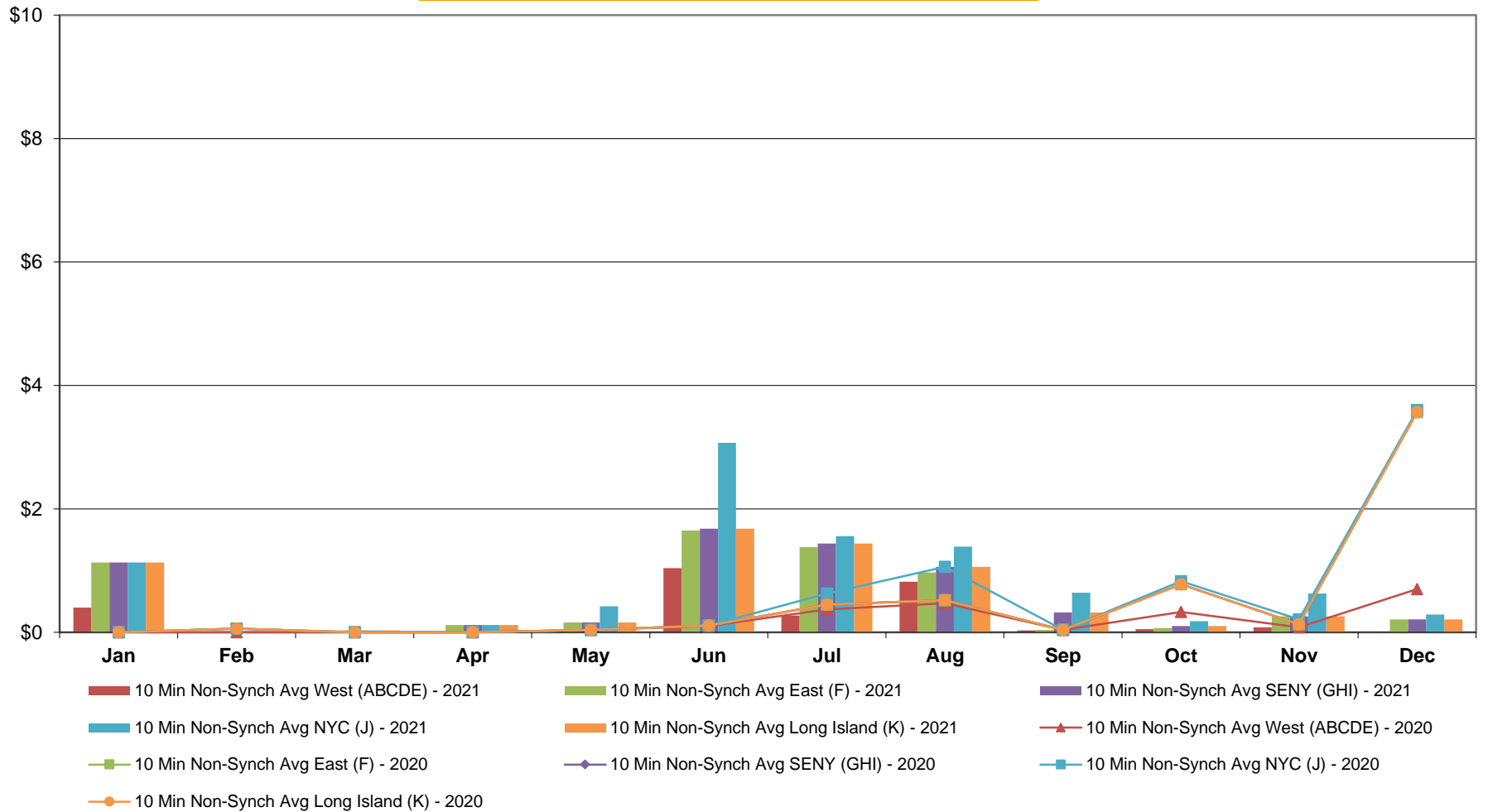




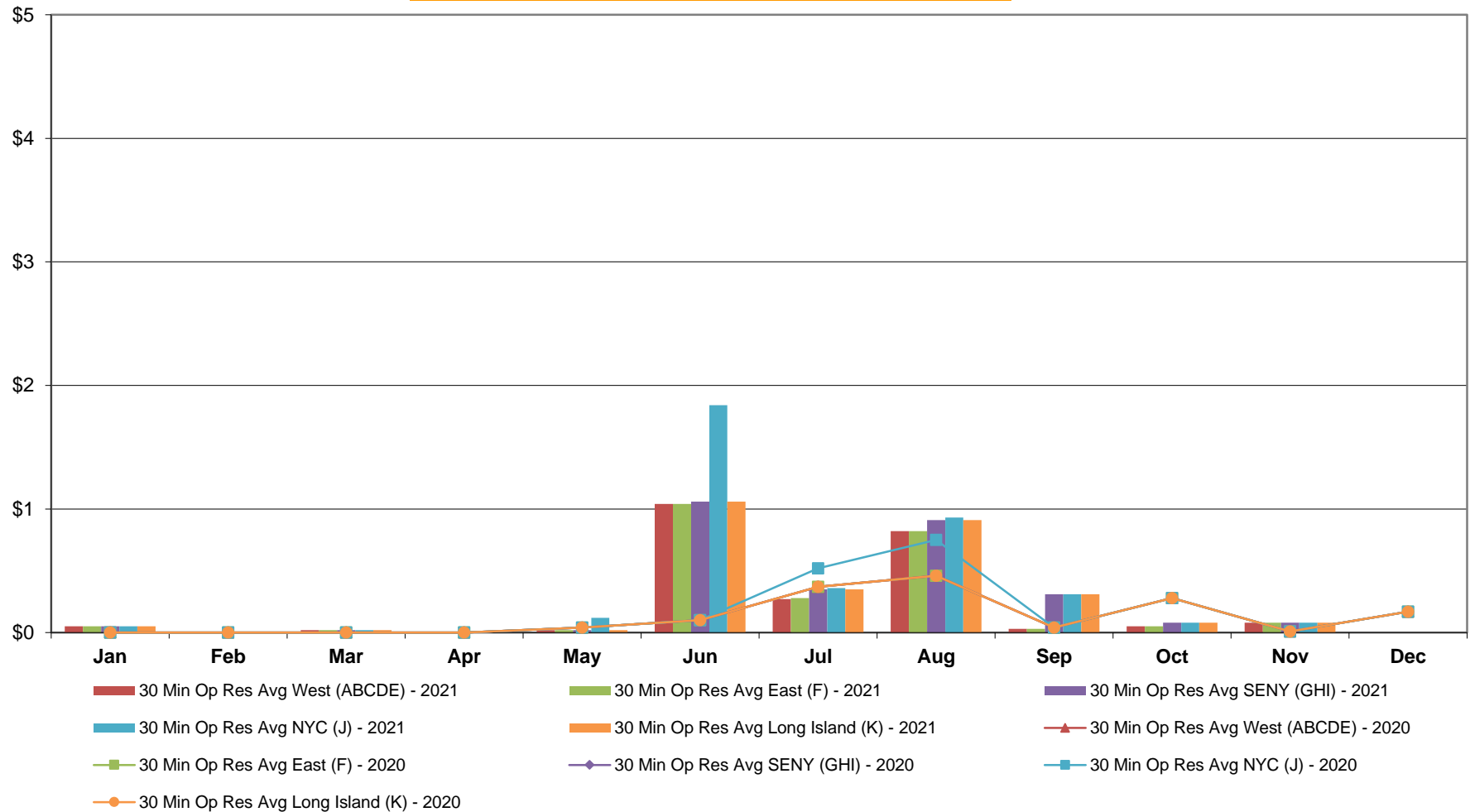
**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - 10 Min Spin 2020 - 2021**



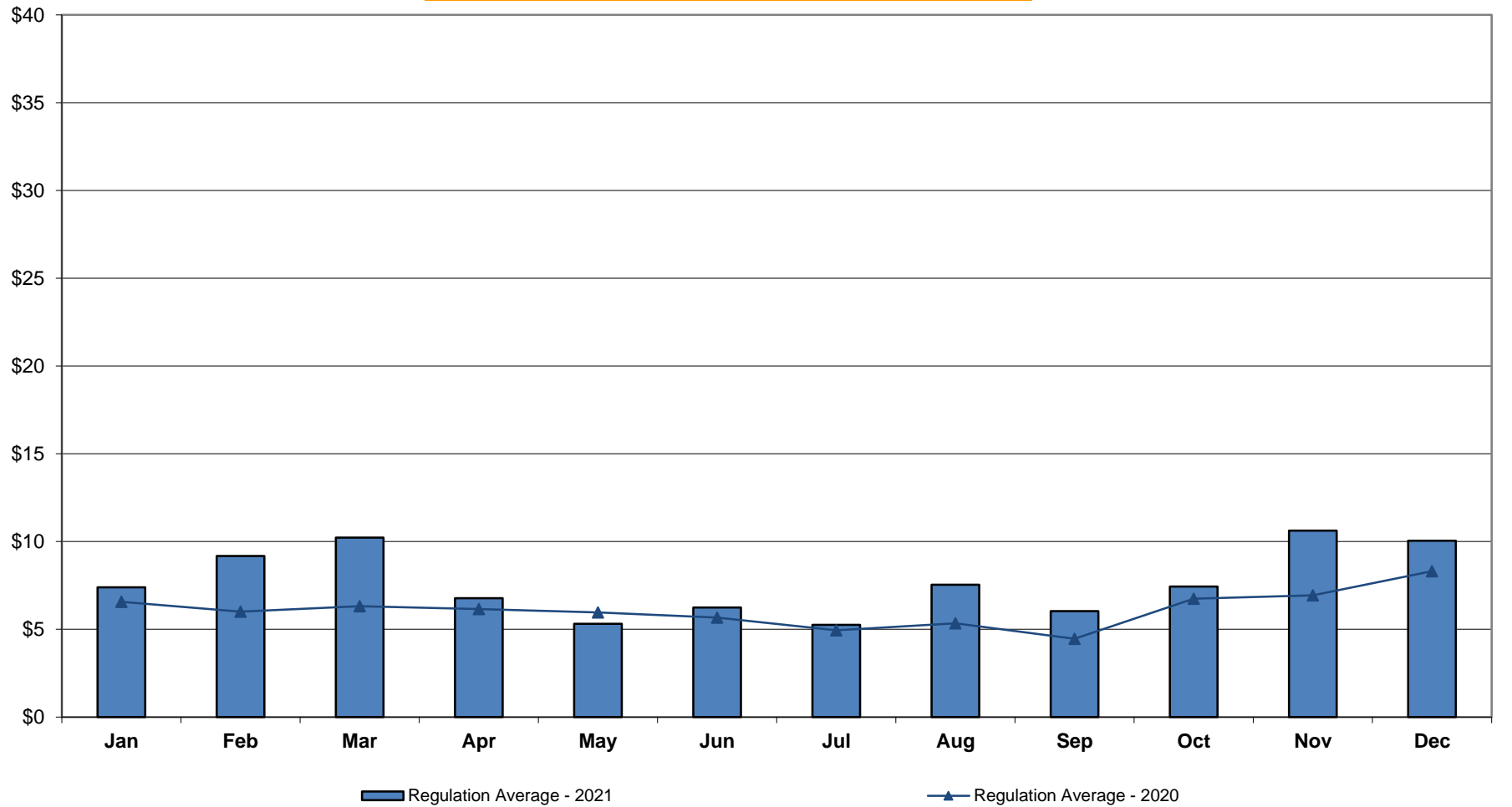
# **NYISO Monthly Average Ancillary Service Prices Real Time Market - 10 Min Non-Synch 2020 - 2021**



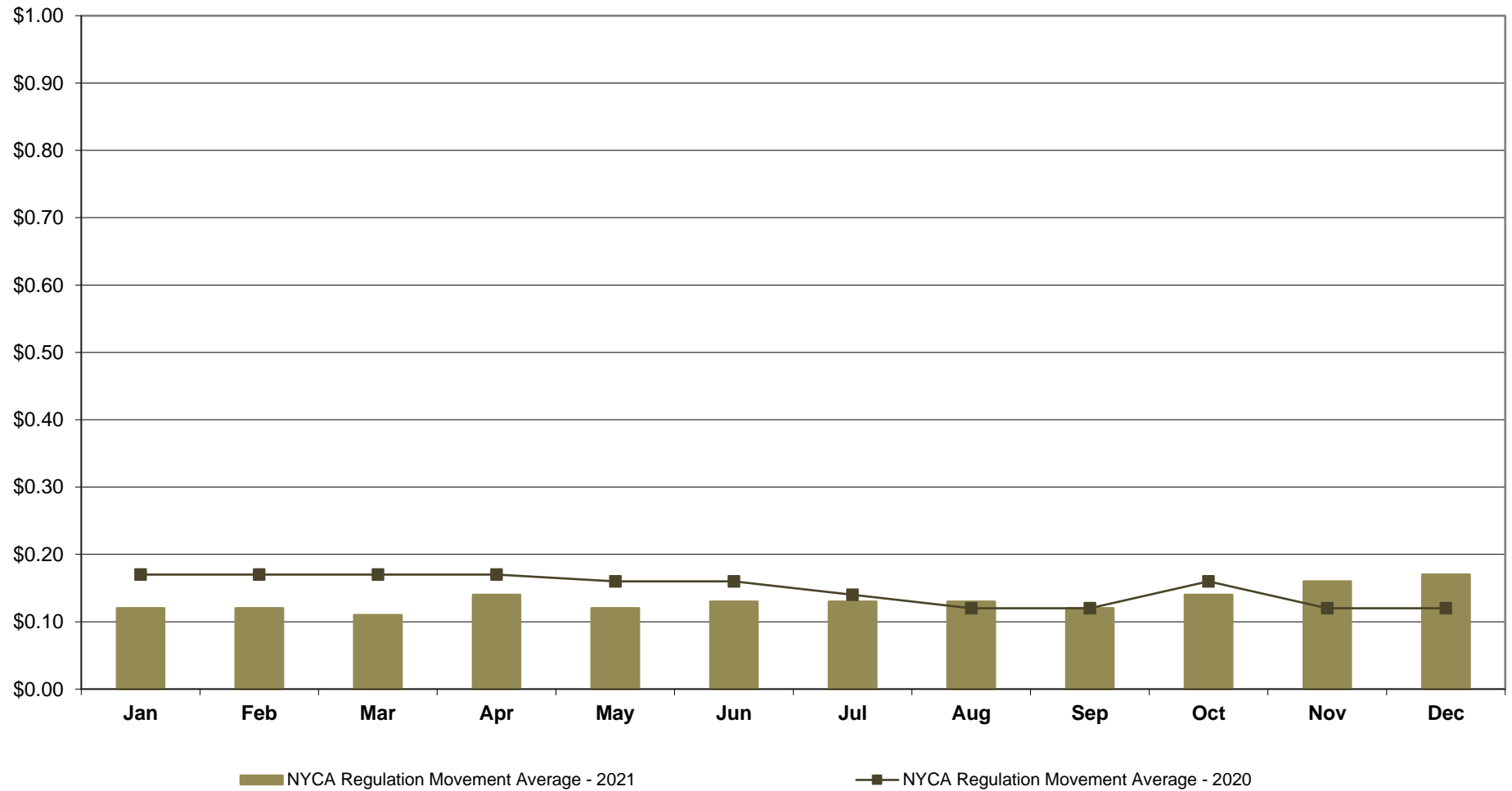
**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - 30 Min Op Res 2020 - 2021**



**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - Regulation 2020 - 2021**



**NYISO Monthly Average Ancillary Service Prices  
Real Time Market - Regulation Movement 2020 - 2021**



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

<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
<b><u>2020</u></b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>Day Ahead Market</u></b>												
10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	4.96	4.46	5.27
10 Min Spin NYC (J)	3.60	3.23	3.55	3.27	3.48	3.64	4.00	3.74	3.63	4.96	4.48	5.30
10 Min Spin SENY (GHI)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	4.96	4.46	5.27
10 Min Spin East (F)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	4.96	4.46	5.27
10 Min Spin West (ABCDE)	3.57	3.22	3.43	3.25	3.39	3.51	3.55	3.59	3.58	4.21	3.81	4.25
10 Min Non Synch Long Island (K)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	3.66	3.23	3.67
10 Min Non Synch NYC (J)	3.28	3.08	2.95	2.95	2.94	3.17	3.61	3.17	2.66	3.66	3.25	3.71
10 Min Non Synch SENY (GHI)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	3.66	3.23	3.67
10 Min Non Synch East (F)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	3.66	3.23	3.67
10 Min Non Synch West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.43	2.95	3.55
30 Min Long Island (K)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.42	2.95	3.55
30 Min NYC (J)	3.28	3.08	2.95	2.94	2.93	3.10	3.31	3.05	2.63	3.42	2.97	3.56
30 Min SENY (GHI)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.42	2.95	3.55
30 Min East (F)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.42	2.95	3.55
30 Min West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	3.42	2.95	3.55
Regulation	6.46	5.94	5.86	5.70	6.40	5.44	4.61	4.79	5.17	6.32	6.45	6.79

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

<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
<b><u>2020</u></b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>RTC Market</u></b>												
10 Min Spin Long Island (K)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin NYC (J)	0.78	1.46	0.88	0.32	0.26	0.31	0.96	1.60	0.20	2.82	1.50	5.42
10 Min Spin SENY (GHI)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin East (F)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin West (ABCDE)	0.54	0.72	0.46	0.11	0.15	0.17	0.44	0.86	0.16	1.09	0.70	2.29
10 Min Non Synch Long Island (K)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch NYC (J)	0.00	0.95	0.00	0.00	0.04	0.06	0.73	1.16	0.03	0.86	0.11	3.19
10 Min Non Synch SENY (GHI)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch East (F)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch West (ABCDE)	0.00	0.28	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.76
30 Min Long Island (K)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min NYC (J)	0.00	0.01	0.00	0.00	0.03	0.05	0.57	0.91	0.03	0.38	0.01	0.27
30 Min SENY (GHI)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min East (F)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min West (ABCDE)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
Regulation	6.11	5.77	6.25	6.56	5.02	5.56	4.92	5.20	4.37	7.57	7.09	7.96
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.17	0.16	0.14	0.12	0.12	0.16	0.12	0.12

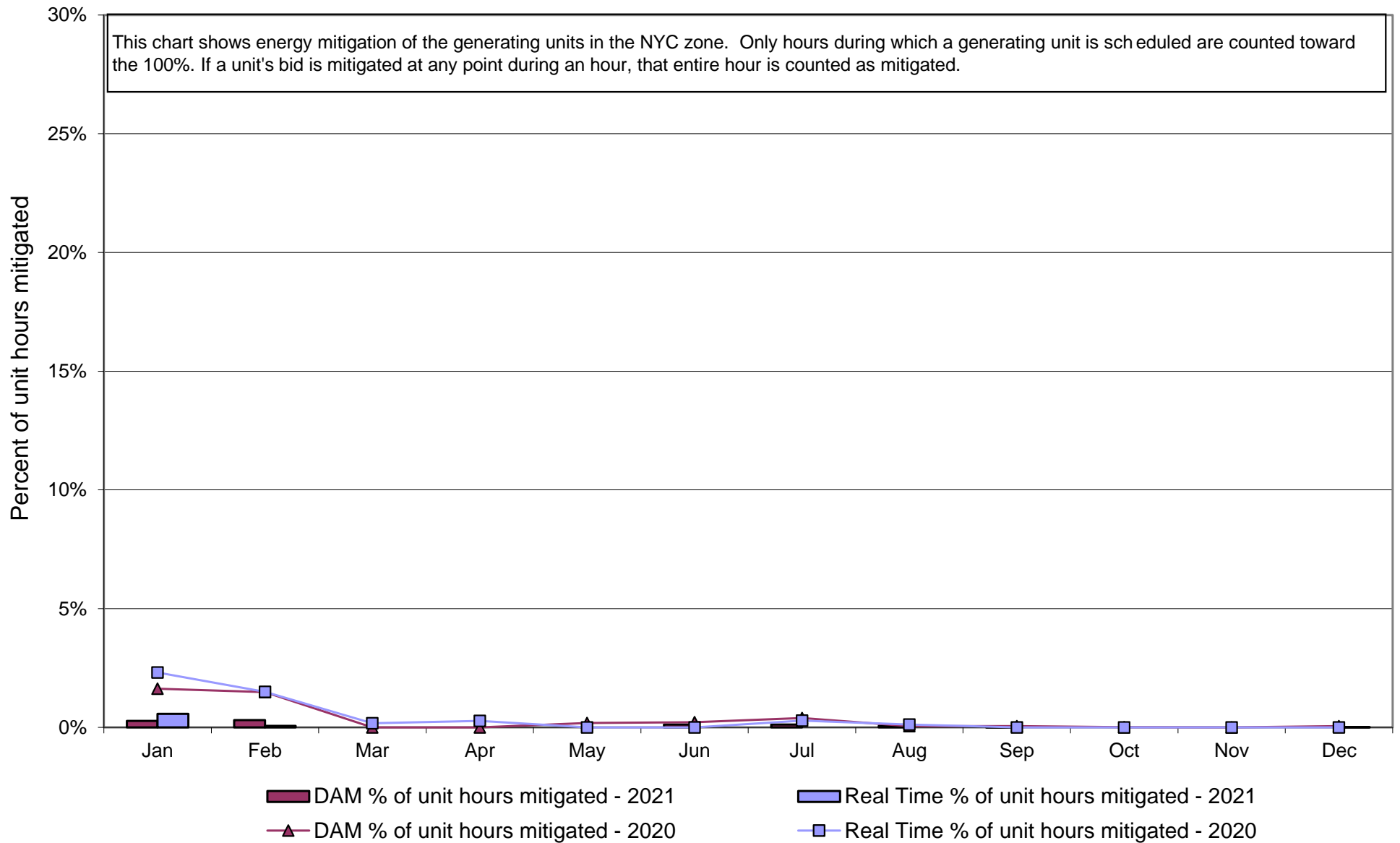
## **NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT**

<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>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
<b><u>2020</u></b>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<b><u>Real Time Market</u></b>												
10 Min Spin Long Island (K)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin NYC (J)	1.42	0.98	1.62	0.82	0.63	0.56	0.90	1.77	0.34	2.53	2.28	6.84
10 Min Spin SENY (GHI)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin East (F)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin West (ABCDE)	1.05	0.81	1.11	0.55	0.50	0.44	0.58	1.08	0.26	1.28	1.38	3.05
10 Min Non Synch Long Island (K)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch NYC (J)	0.00	0.06	0.00	0.00	0.07	0.12	0.63	1.06	0.04	0.83	0.21	3.60
10 Min Non Synch SENY (GHI)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch East (F)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.47	0.04	0.33	0.08	0.70
30 Min Long Island (K)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min NYC (J)	0.00	0.00	0.00	0.00	0.04	0.10	0.52	0.75	0.04	0.28	0.01	0.17
30 Min SENY (GHI)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min East (F)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
Regulation	6.57	6.00	6.32	6.16	5.96	5.67	4.94	5.34	4.46	6.75	6.93	8.31
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.16	0.16	0.14	0.12	0.12	0.16	0.12	0.12

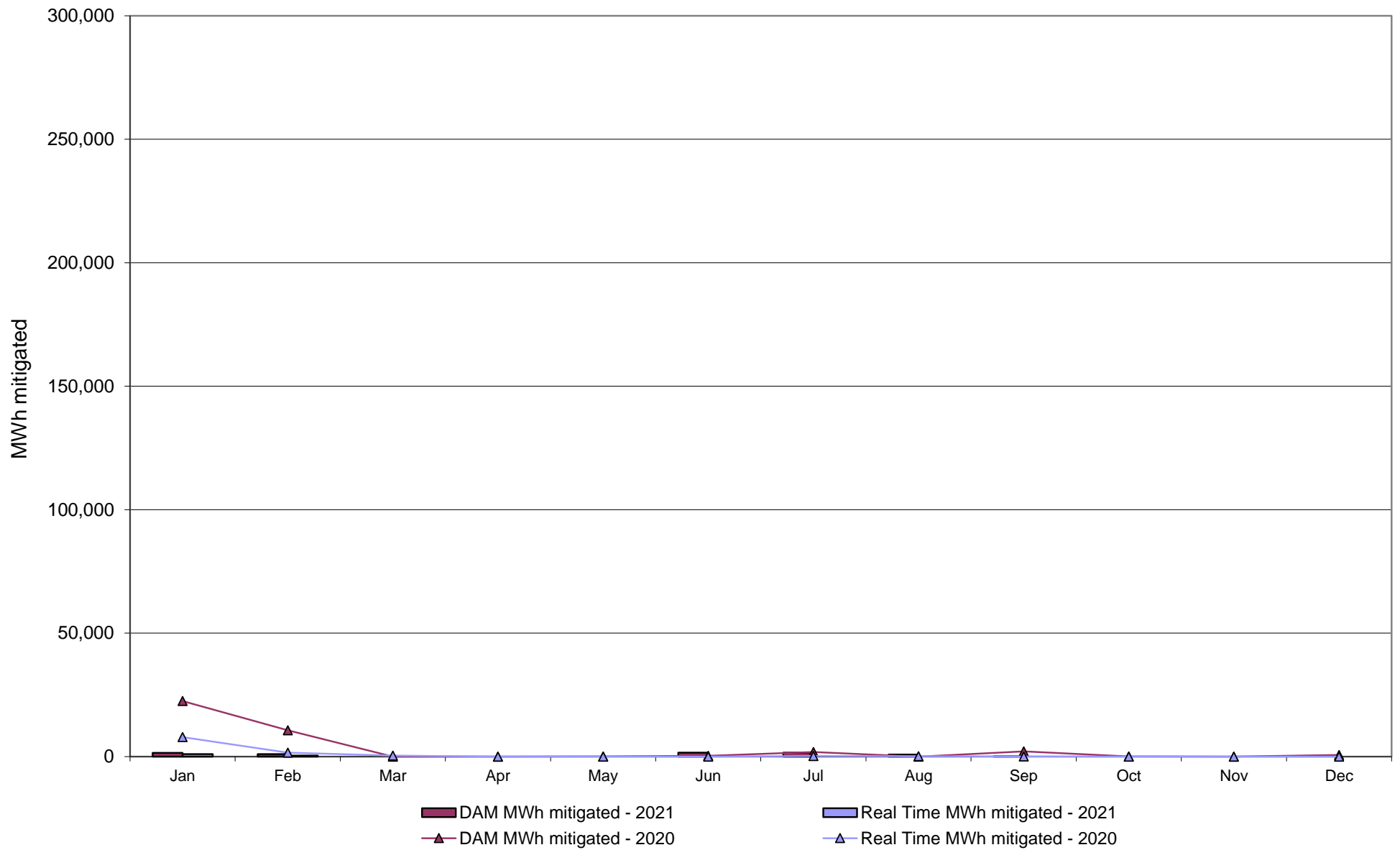


## NYISO In City Energy Mitigation - AMP (NYC Zone) 2020 - 2021

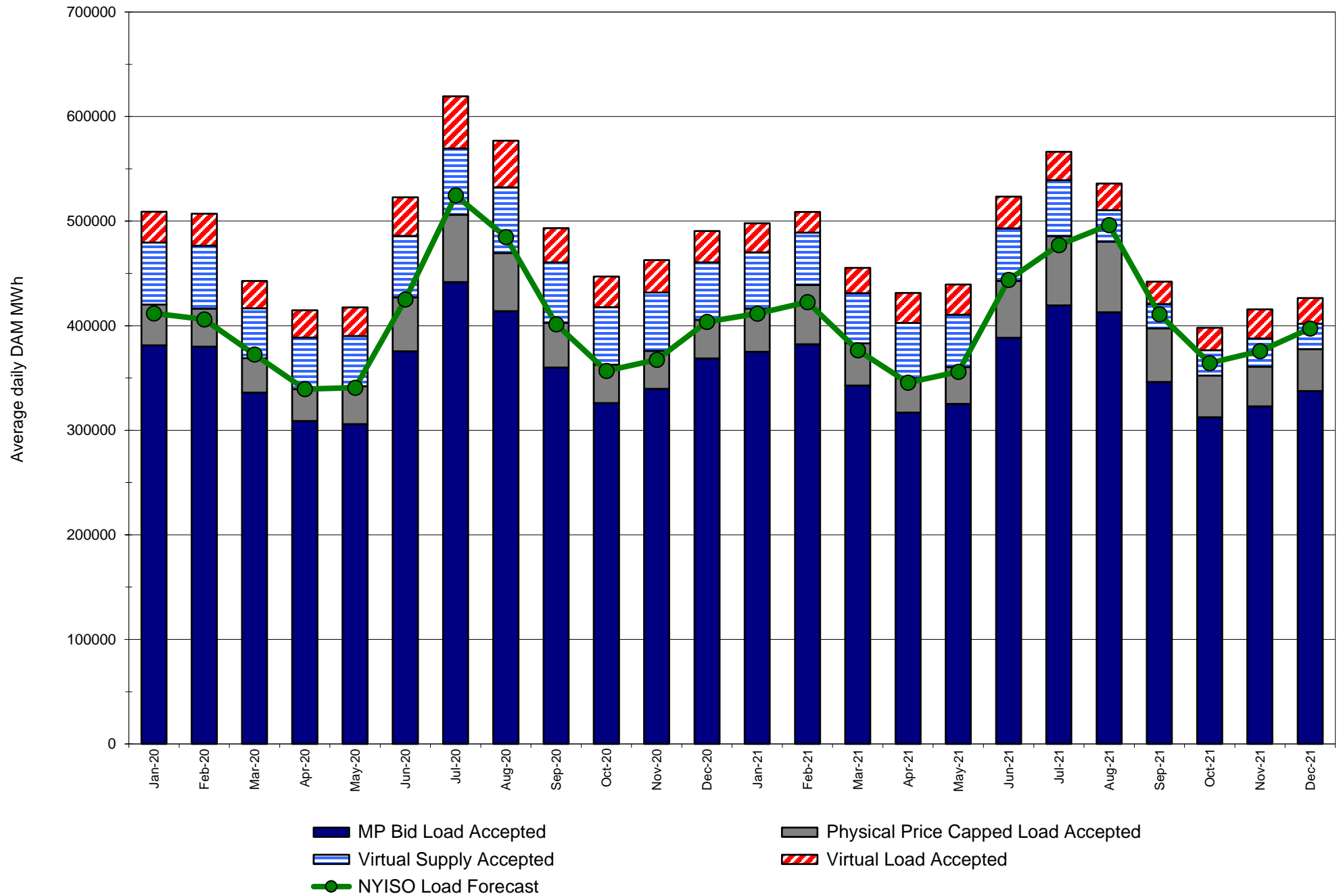
### Percentage of committed unit-hours mitigated



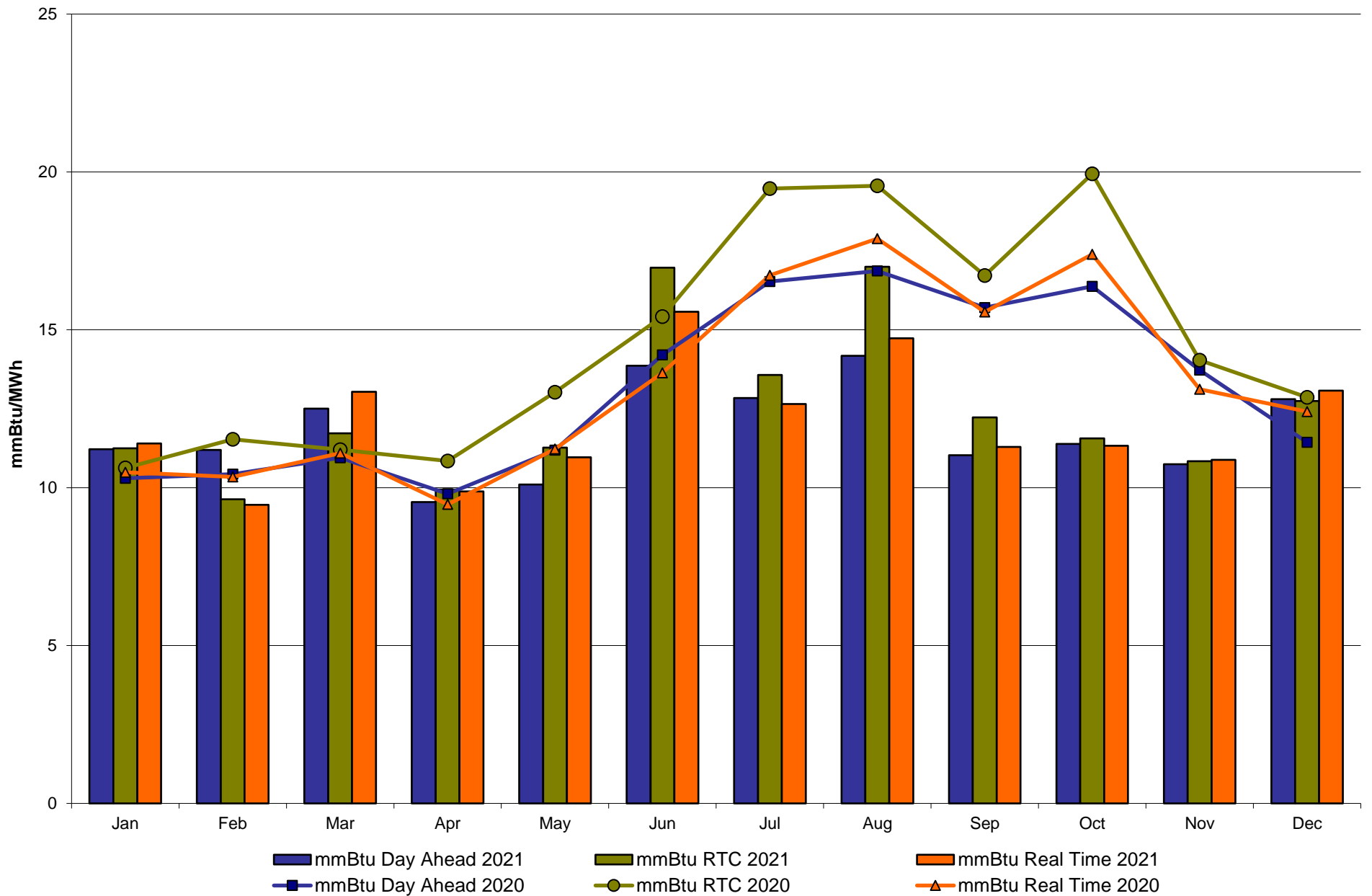
**NYISO In City Energy Mitigation (NYC Zone) 2020 - 2021**  
**Monthly megawatt hours mitigated**



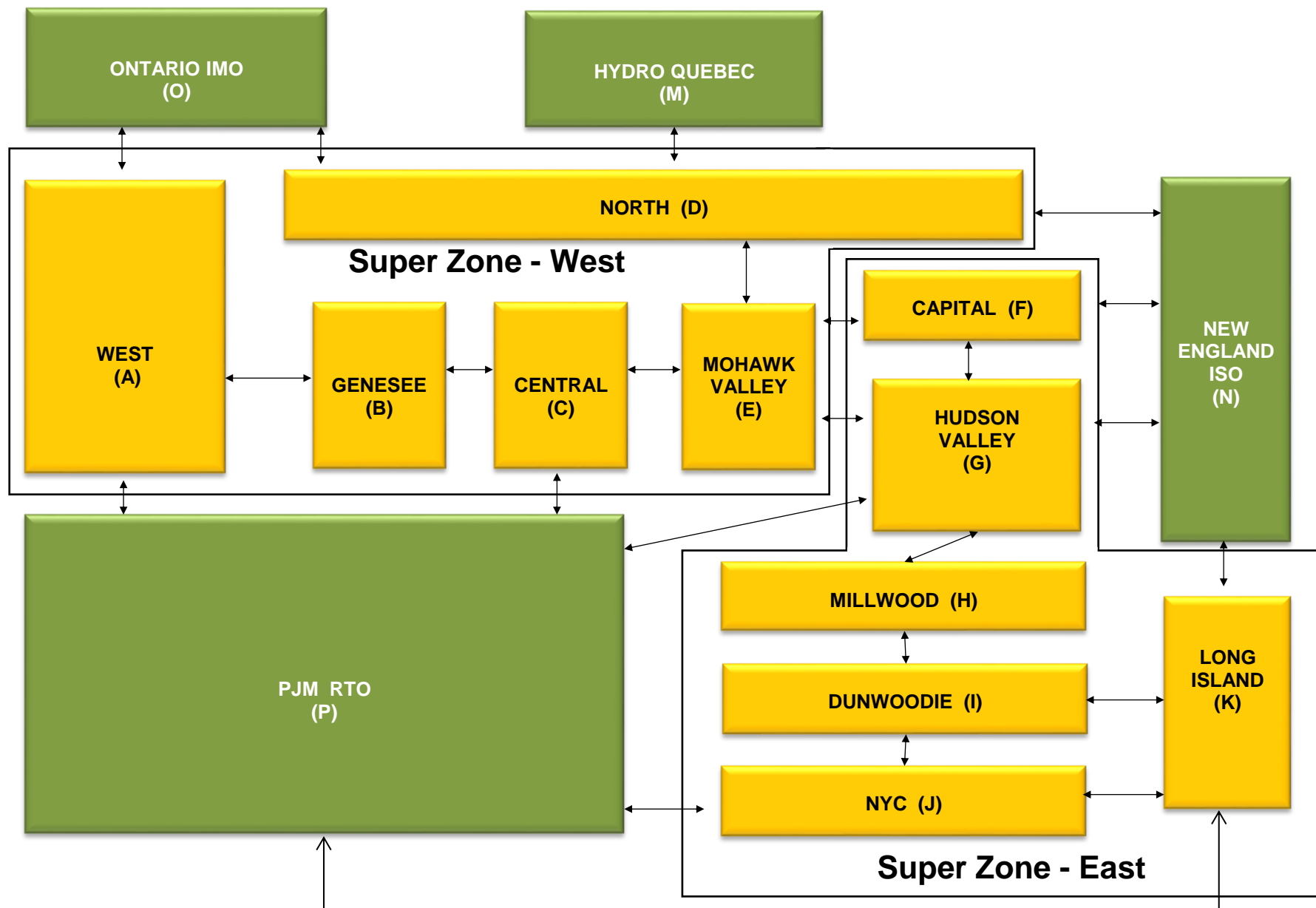
# NYISO Average Daily DAM Load Bid Summary



# Monthly Implied Heat Rate 2020-2021



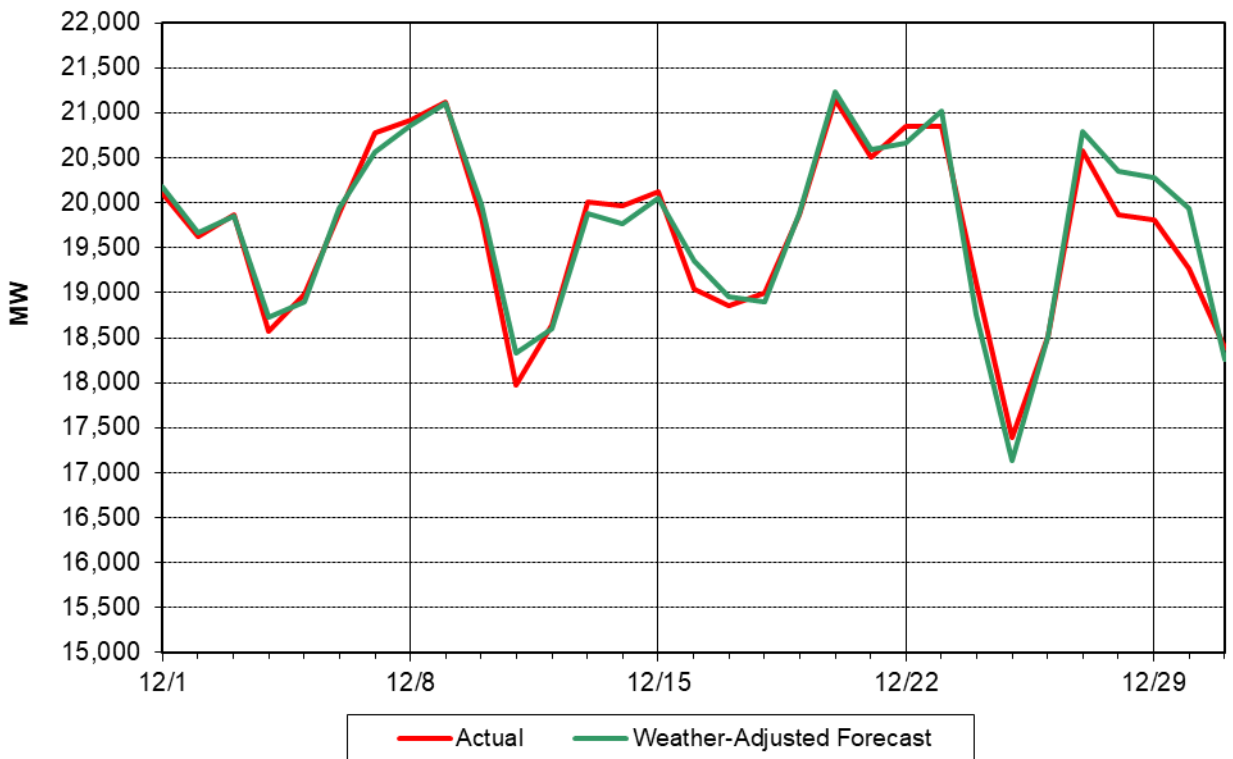
# NYISO LBMP ZONES



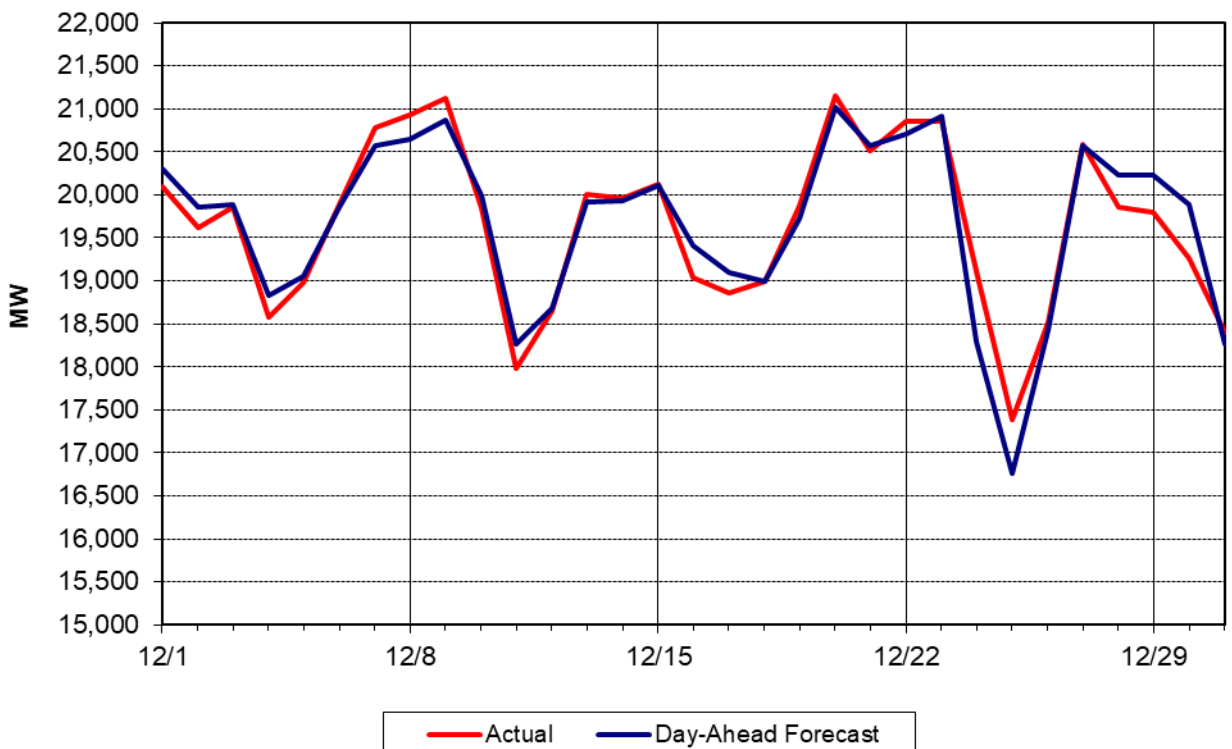
### Billing Codes for Chart C

<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

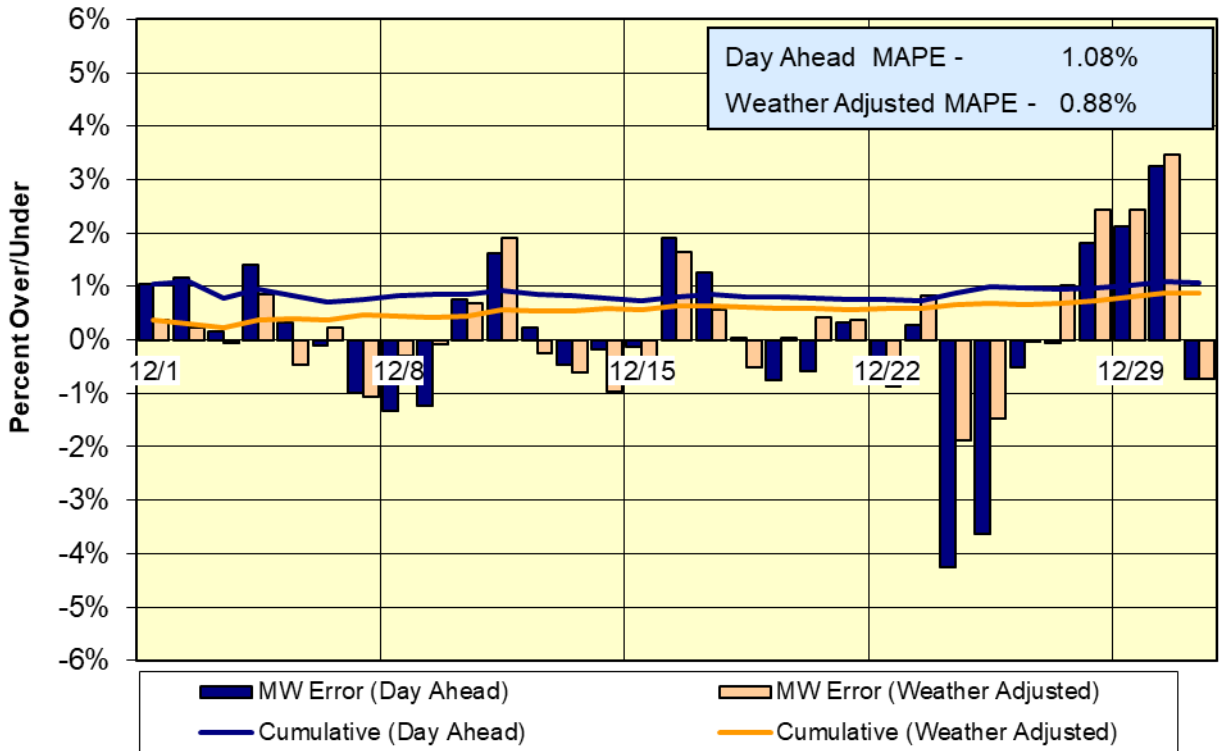
**NYISO Daily Peak Load - December 2021**  
**Actual vs. Weather-Adjusted Forecast**



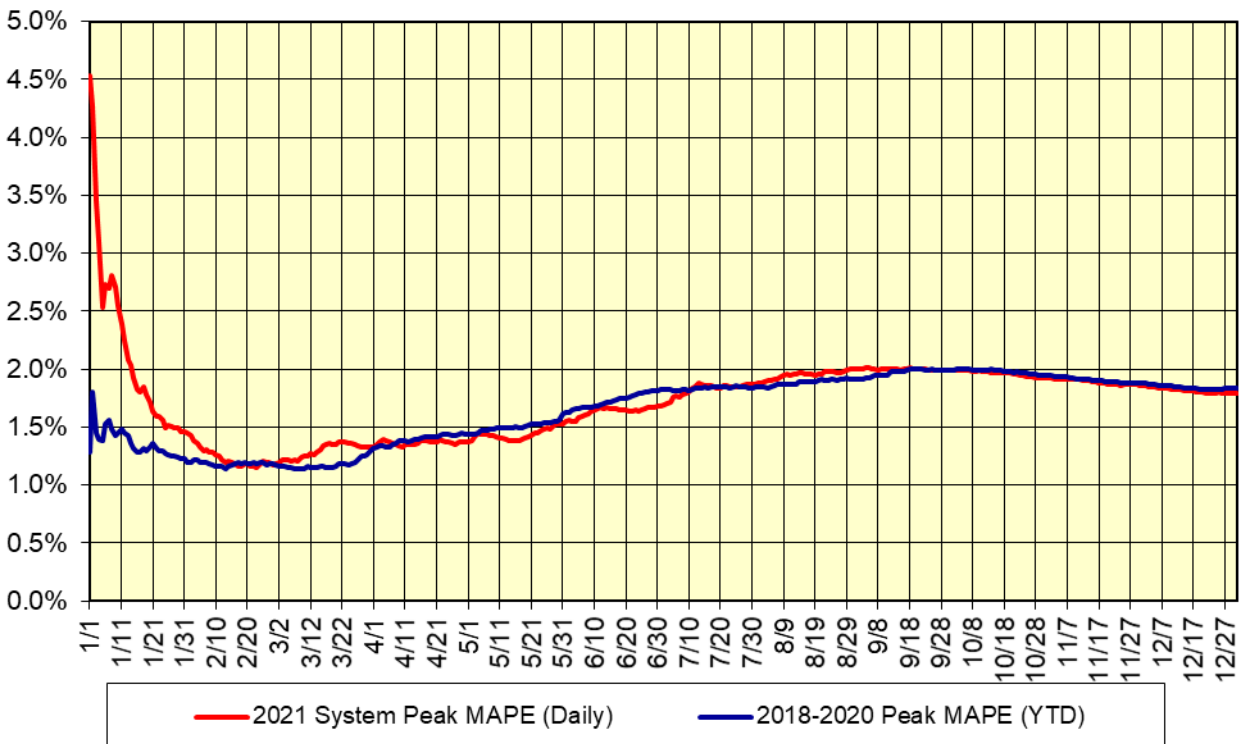
**NYISO Daily Peak Load - December 2021**  
**Actual vs. Forecast**



### Day Ahead Peak Forecast - December 2021 Percent Error - Actual & Weather-Adjusted



### Day-Ahead Forecast Accuracy - Cumulative Performance 2021 Year-to-Date





**Summary Description of Regulatory Filings, Investigations,  
Rulemakings and Related Orders in NYISO Matters – December 2021**

<b>Filing Date</b>	<b>Filing Summary</b>	<b>Docket</b>	<b>Order Summary</b>	<b>Order Date</b>
08/17/2021 11/05/2021	NYISO filing to FERC, on behalf of LS Power Grid New York Corporation, of compliance revisions to the LS Power formula rate template in the NYISO OATT and subsequent errata	ER20-716-005 ER20-716-006	A letter order accepted the submissions, effective May 27, 2021, as requested	12/03/2021
10/25/2021	NYISO Section 205 filing to FERC, on behalf of Long Island Power Authority, of revisions to LIPA's Wholesale Transmission Service Charge calculation in Attachment H of the OATT	ER22-203-000	A letter order accepted the submission, effective November 1, 2021, as requested	12/09/2021
10/15/2021	NYISO Section 205 filing to FERC, on behalf of LS Power Grid New York, of a request for authorization of, and a date to commence, the collection of the regulatory asset authorized by the Commission in its May 2020 Order	ER22-122-000	A letter order accepted the submission, effective January 1, 2022, as requested	12/14/2021
10/22/2021	NYISO-Con Edison joint Section 205 filing to FERC of a Transmission Project Interconnection Agreement among the NYISO, Con Edison, and New York Transco for the New York Energy Solution Project	ER22-189-000	A letter order accepted the submission, effective October 8, 2021, as requested	12/20/2021
10/28/2021	NYISO filing to FERC of a motion to intervene and comments in response to the Empire Offshore Wind request for a limited waiver of NYISO's tariff	ER22-98-000	An order granted the limited waiver	12/21/2021
10/25/2021	NYISO-Con Edison joint Section 205 filing to FERC of Large Generator Interconnection Agreement among the NYISO, Con Edison, and NRG Berrians East Development for the Berrians East Replacement Project	ER21-198-000	A letter order accepted the submission, effective October 8, 2021, as requested	12/22/2021
12/01/2021	NYISO compliance report to FERC of Form 3Q Quarterly financial report of electric utilities, licensees, and natural gas companies	No docket no.		
12/10/2021	NYISO Section 205 filing to FERC, on behalf of Niagara Mohawk, of a Cost Reimbursement Agreement between Niagara Mohawk Power Corporation and New York Power Authority for the Smart Path project	ER22-606-000		
12/22/2021	NYISO Section 205 filing to FERC of proposed tariff revisions to modify the Mitigation Measures that Apply to Uneconomic Production and Uneconomic Withdrawal	ER22-705-000		

12/29/2021	NYISO-Orange and Rockland joint Section 205 filing to FERC of a Transmission Interconnection Agreement among NYISO and Orange and Rockland and NY Transco for Segment B Public Policy Transmission Project	ER22-741-000		
12/30/2021	NYISO-Long Island Power Authority joint Section 205 filing to FERC of a Large Generator Interconnection Agreement between NYISO and Long Island Power Authority for the South Fork Wind project	ER22-752-000		