

Monthly Report

A Report by the
New York Independent System Operator

July 2021

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July 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 August 7, 2021.

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July 2021 Operations Performance Highlights

- Peak load of 28,359 MW occurred on 07/15/2021 HB 17
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 45.33 hours of Thunder Storm 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.

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

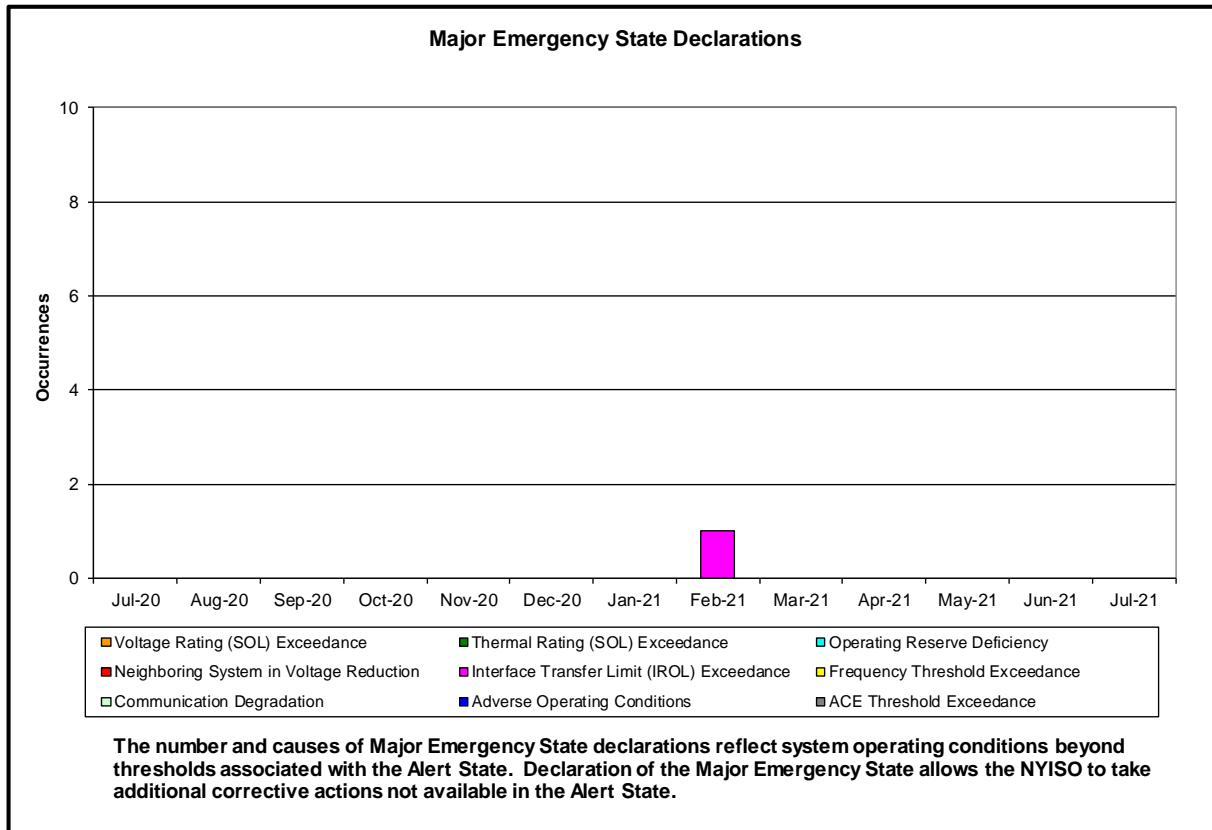
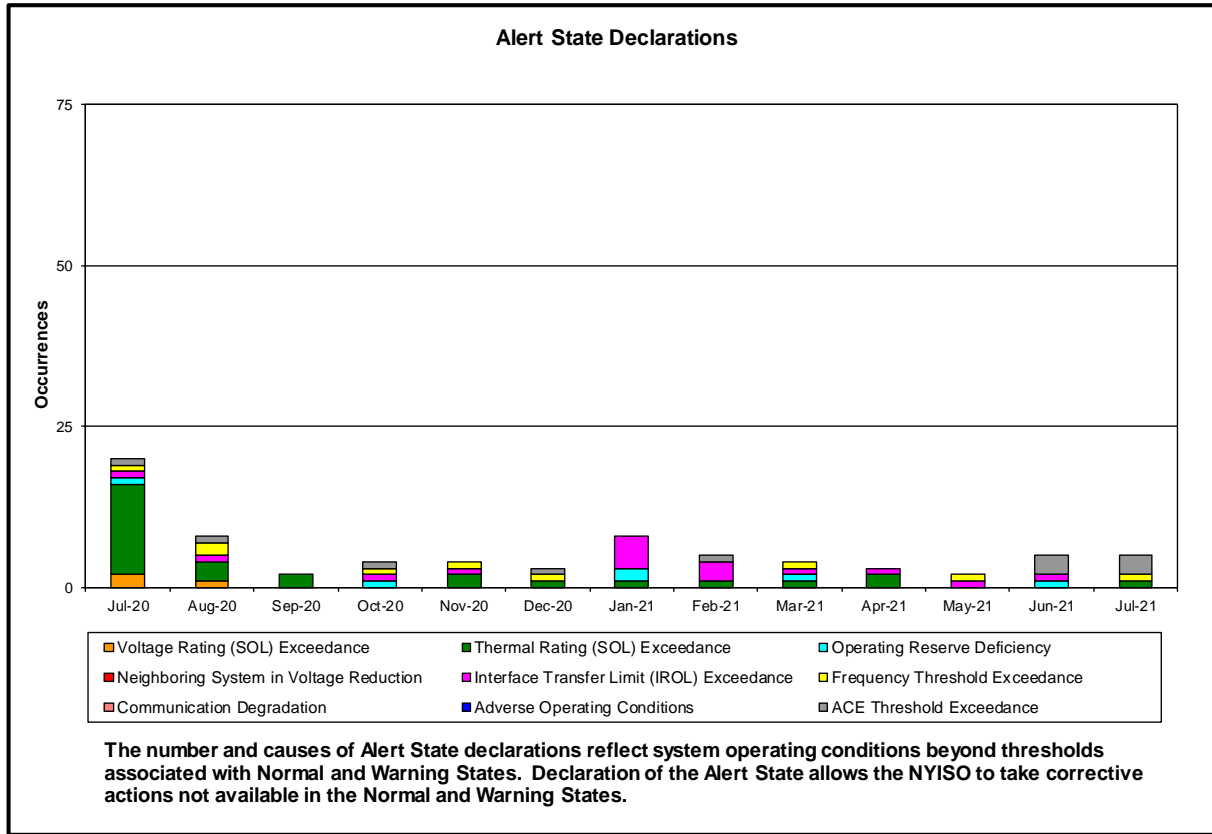
	Current Month Value (\$M)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	(\$0.08)	\$11.12
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.26)	\$0.89
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.32	\$1.98
Total NY Savings	(\$0.02)	\$13.99
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.84	\$3.56
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.13	\$0.08
Total Regional Savings	\$0.97	\$3.64

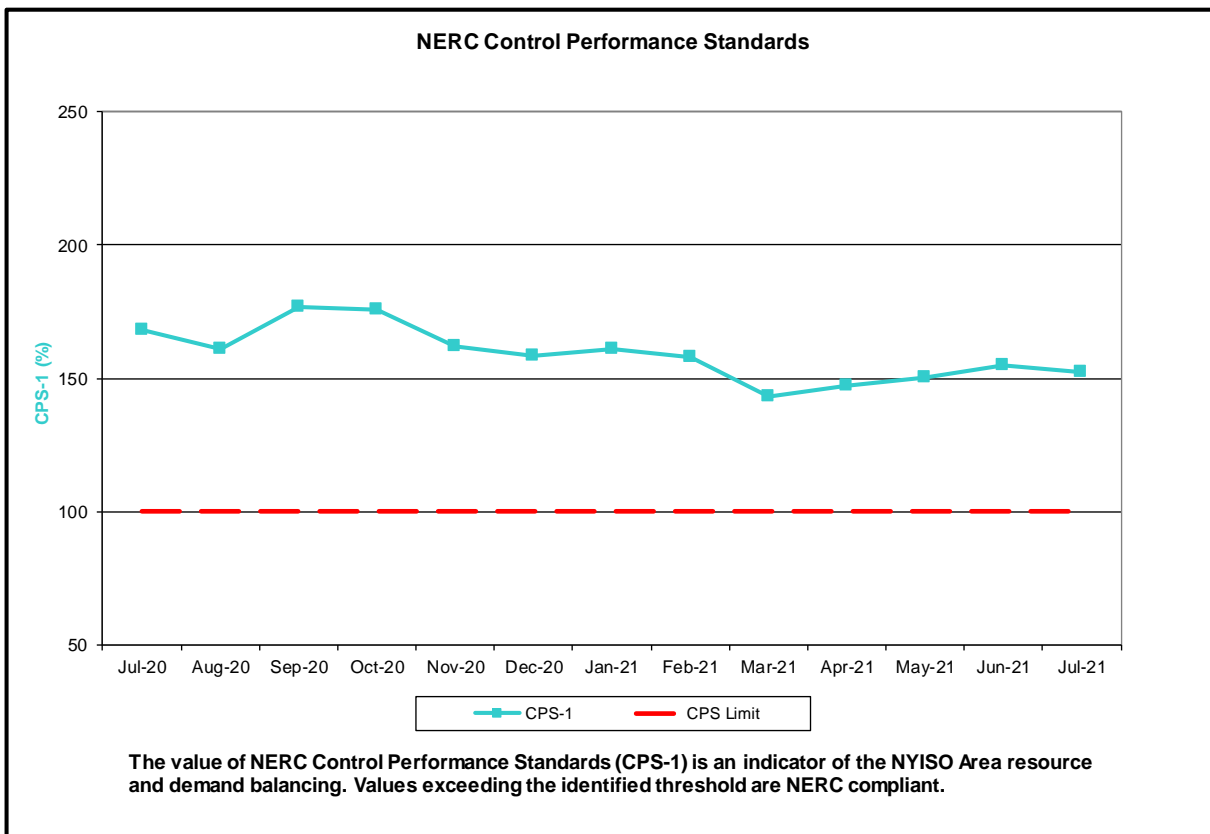
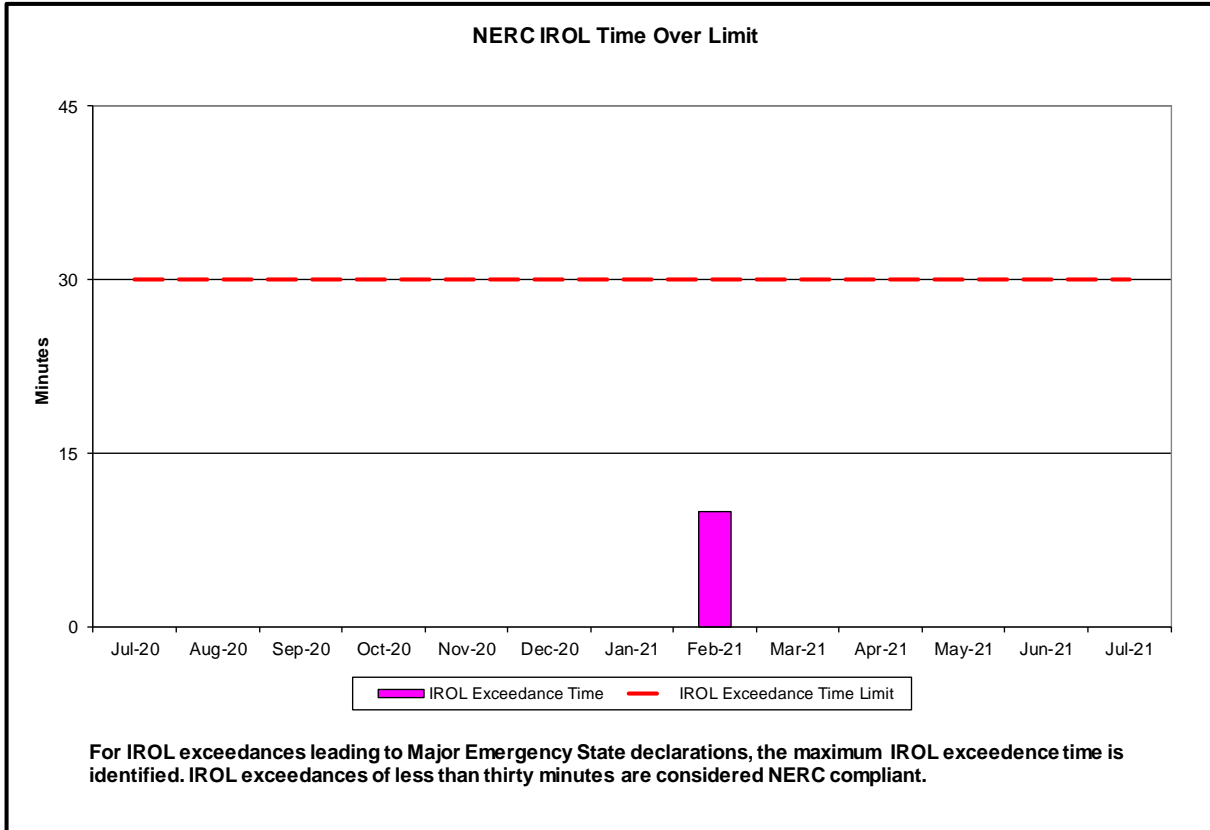
- Statewide uplift cost monthly average was (\$0.39)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

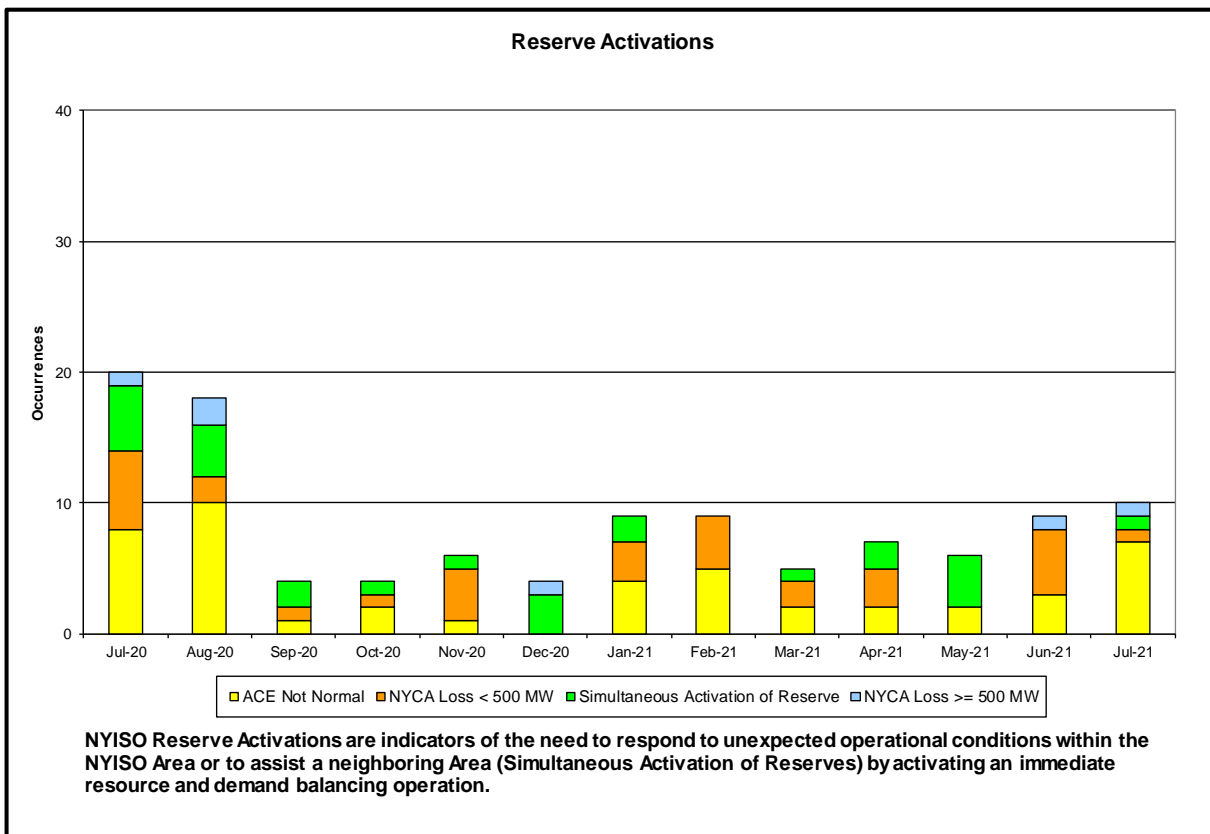
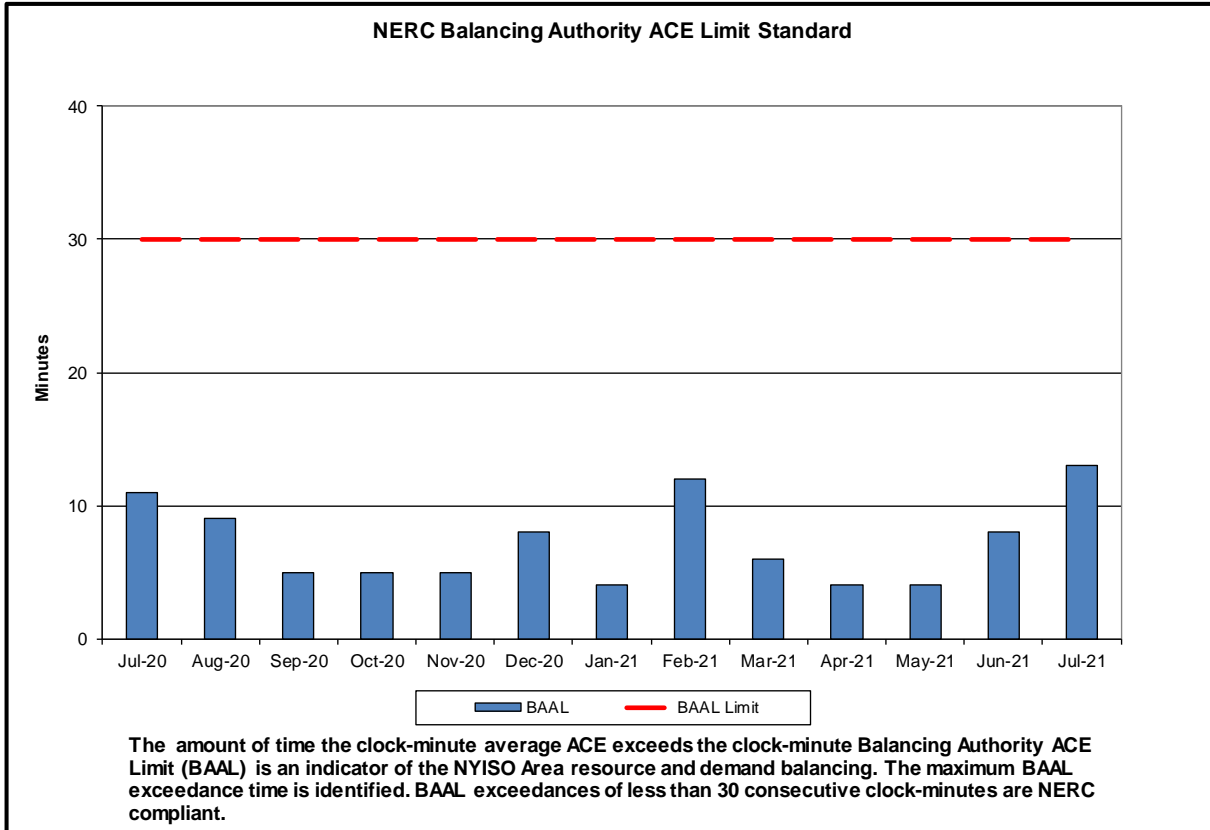
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
August 2021 Spot Price	\$5.43	\$5.43	\$5.43	\$10.56
July 2021 Spot Price	\$5.50	\$5.50	\$5.50	\$9.29
Delta	(\$0.07)	(\$0.07)	(\$0.07)	\$1.27

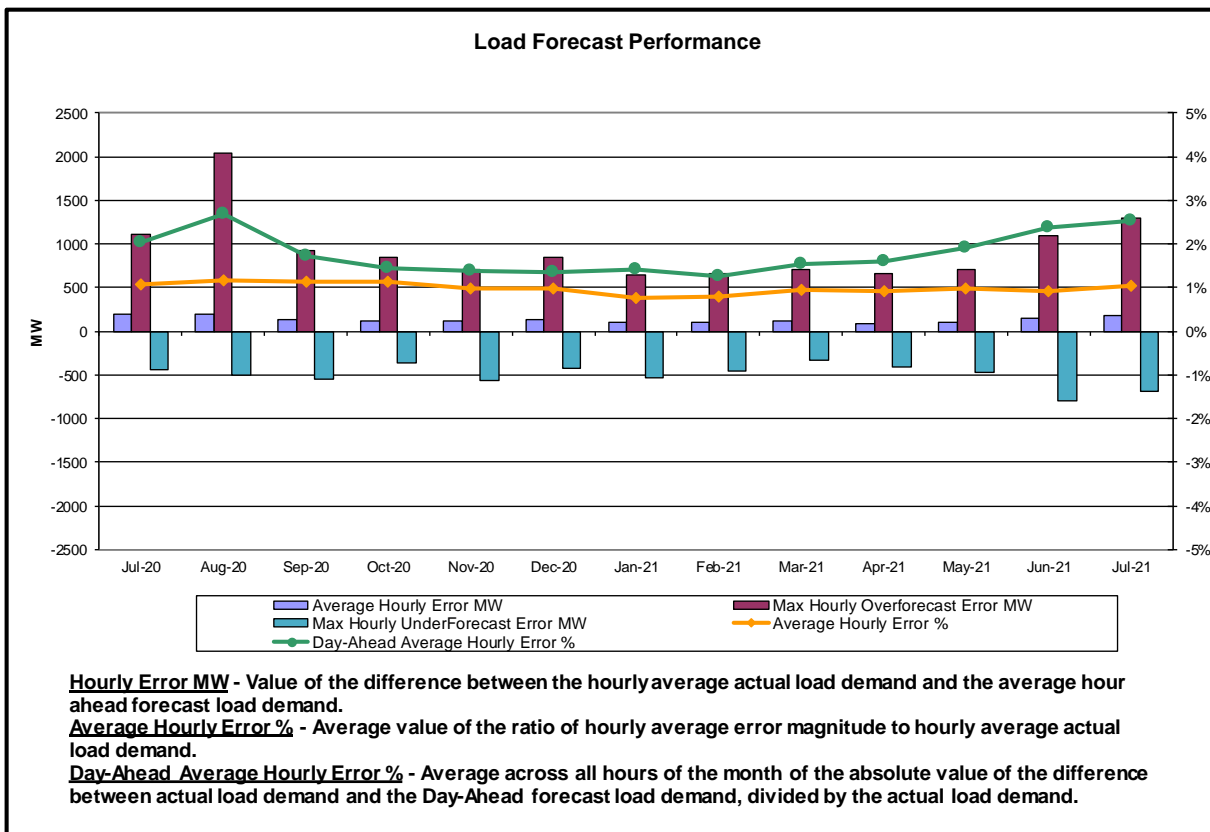
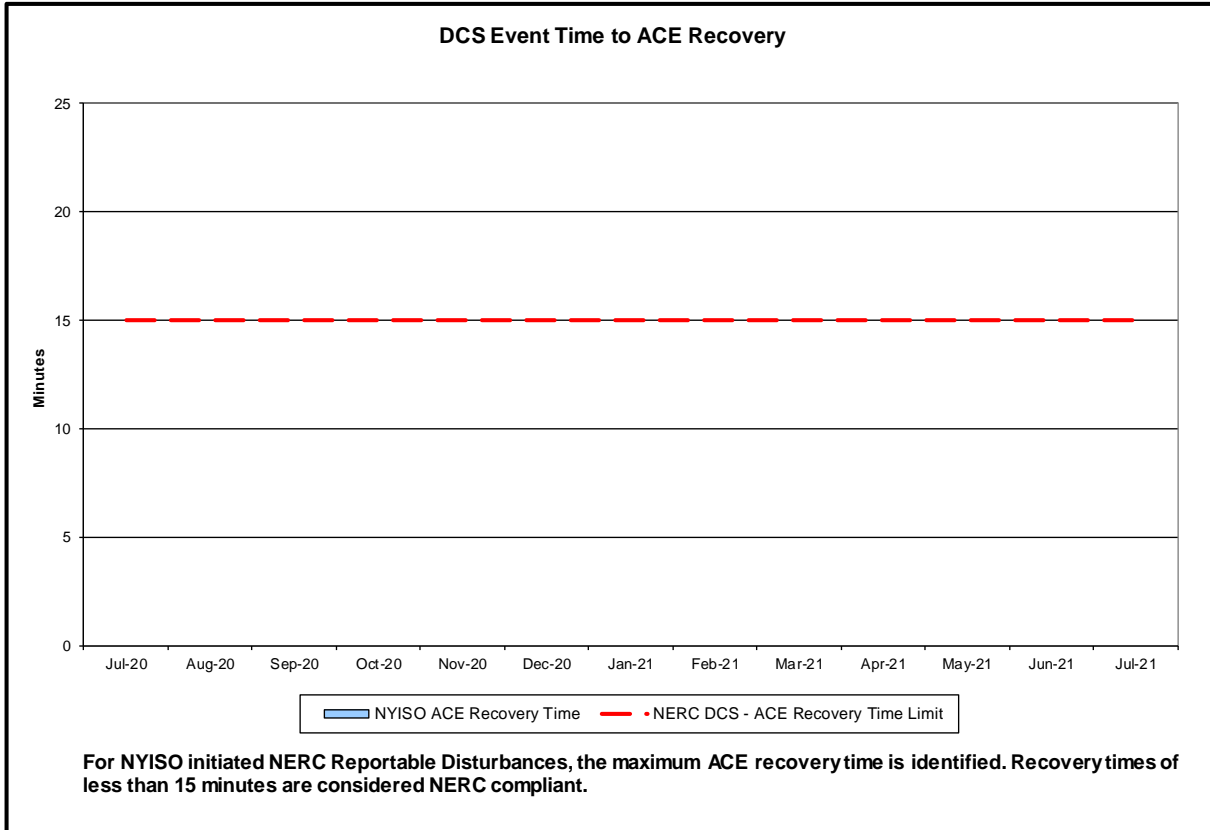
- Long Island price increased \$1.27 due to an increase in unoffered MWs.

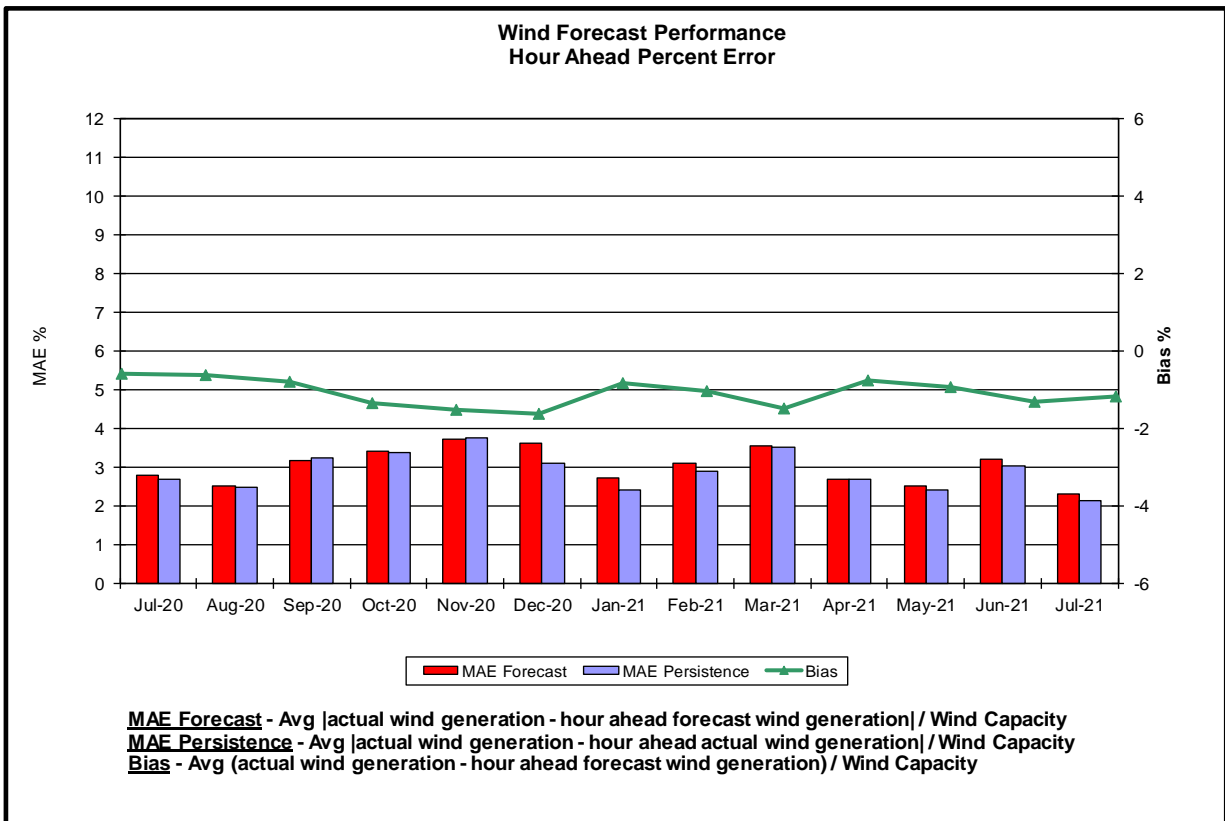
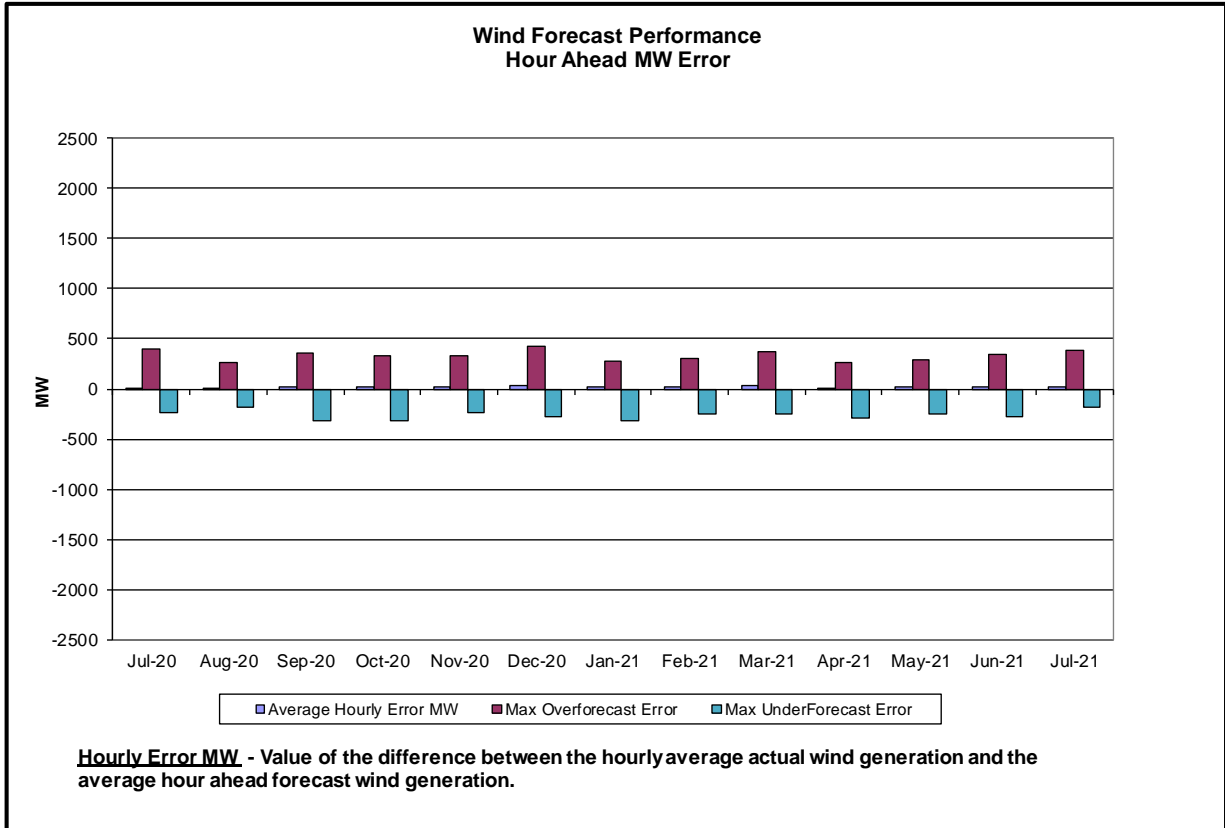
Reliability Performance Metrics

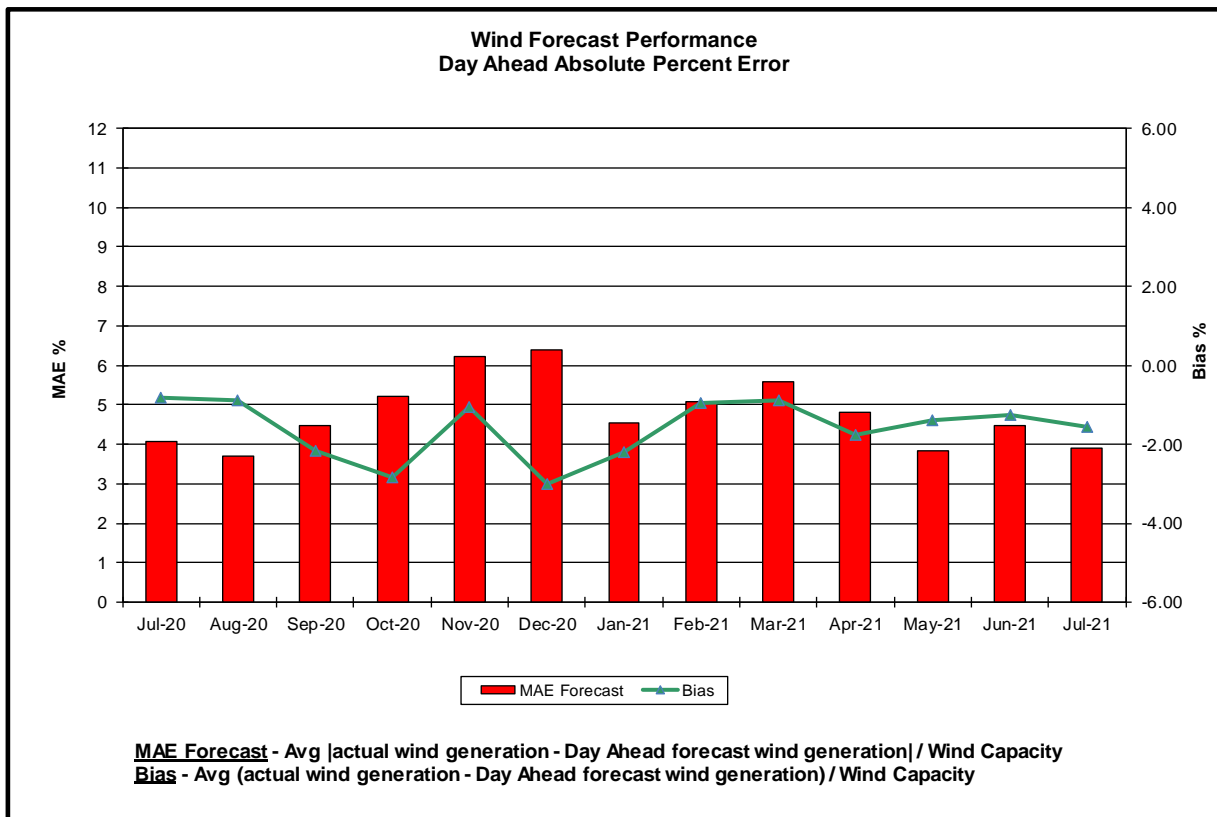
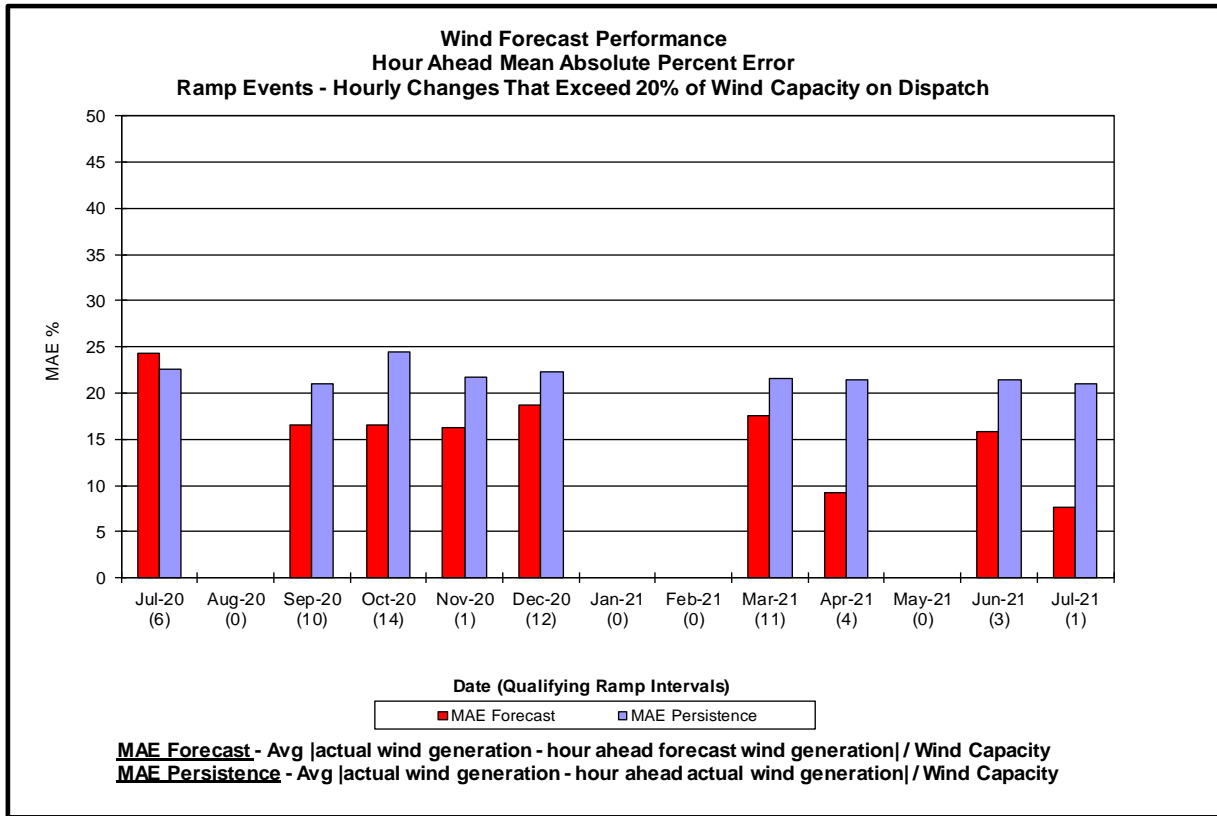


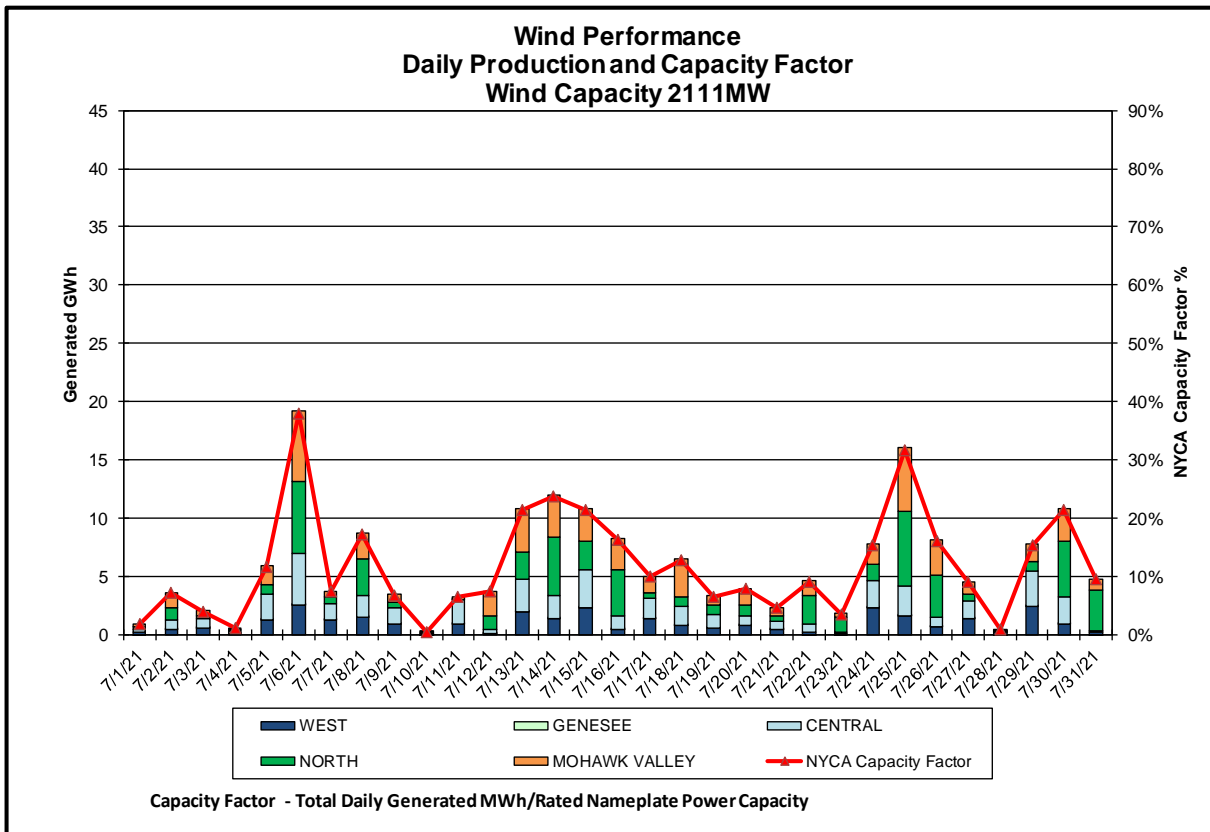
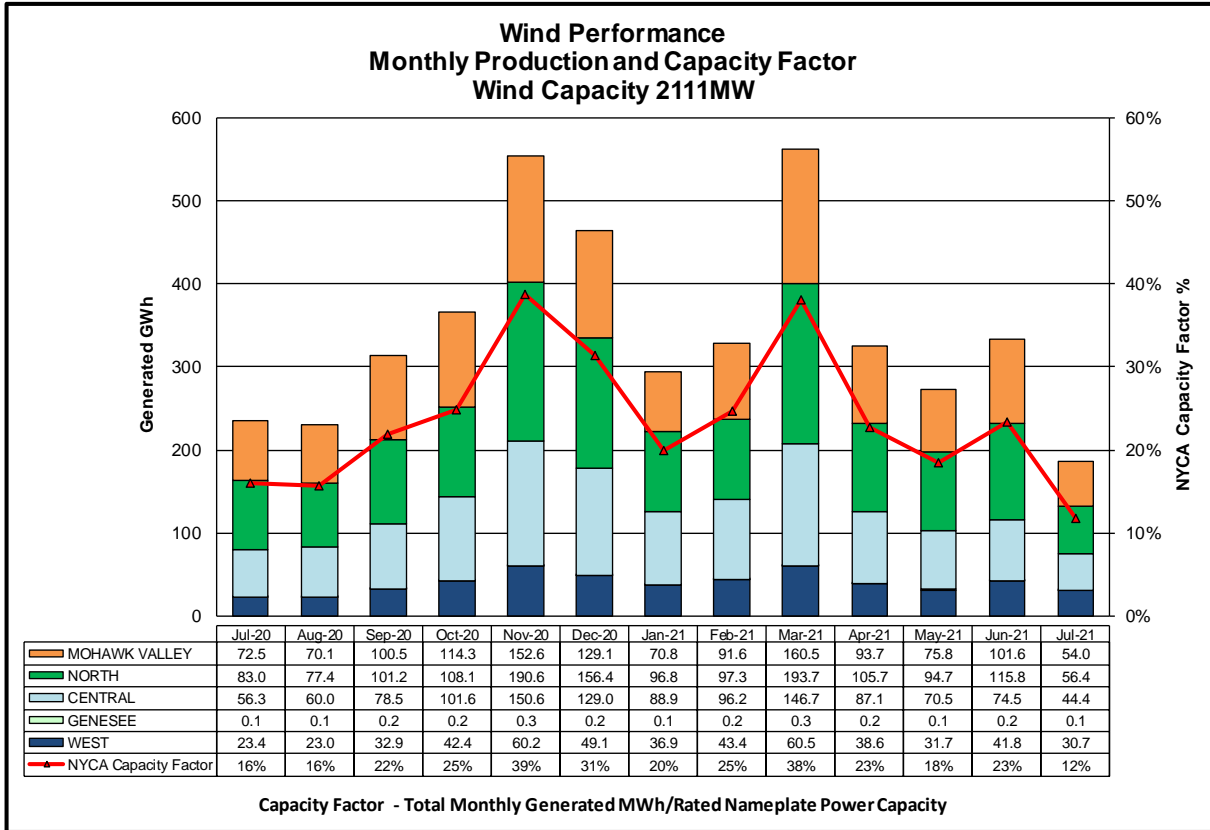


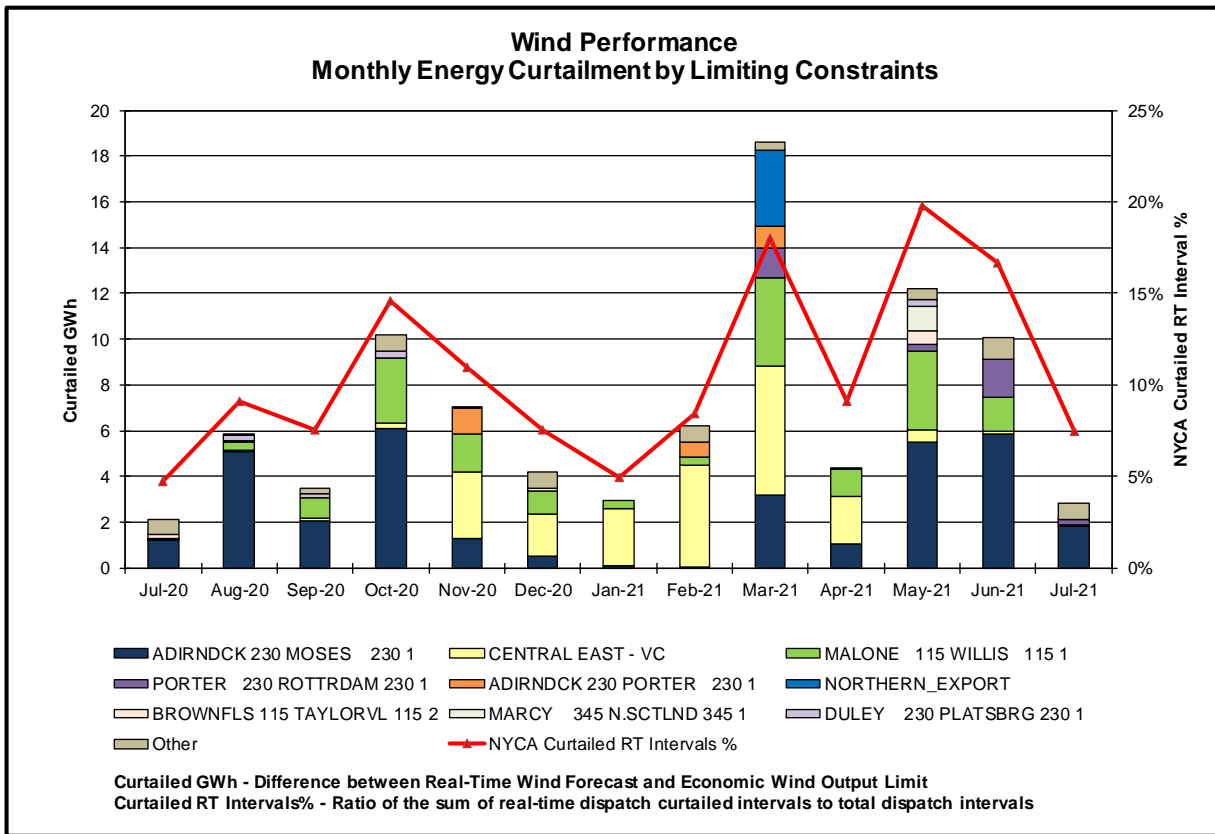
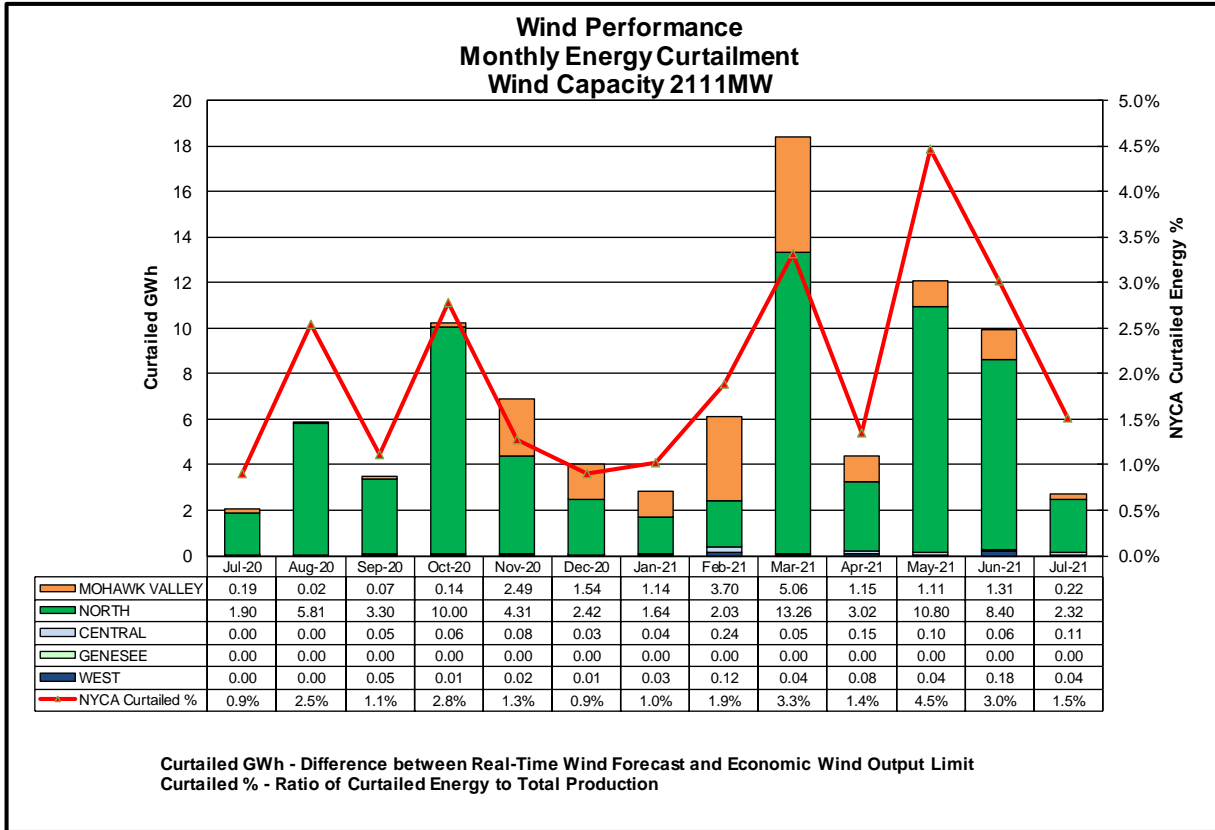


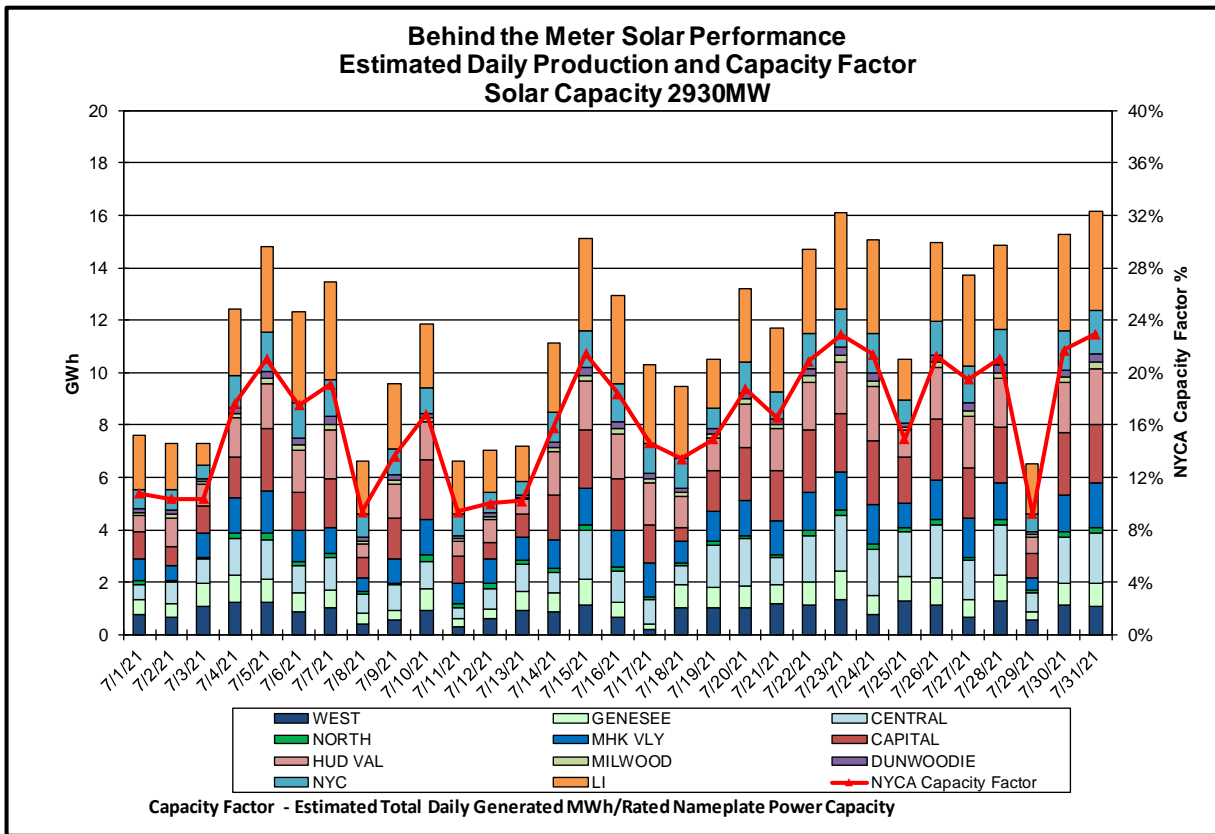
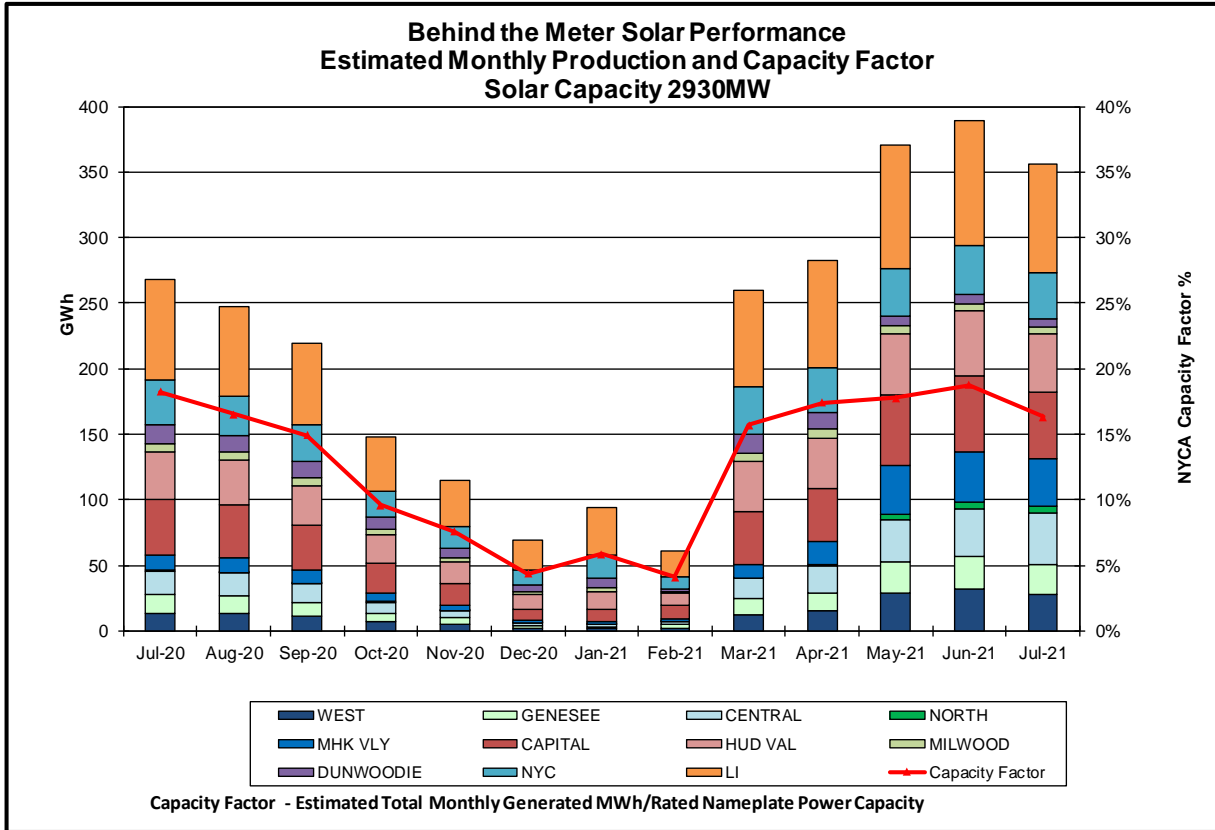


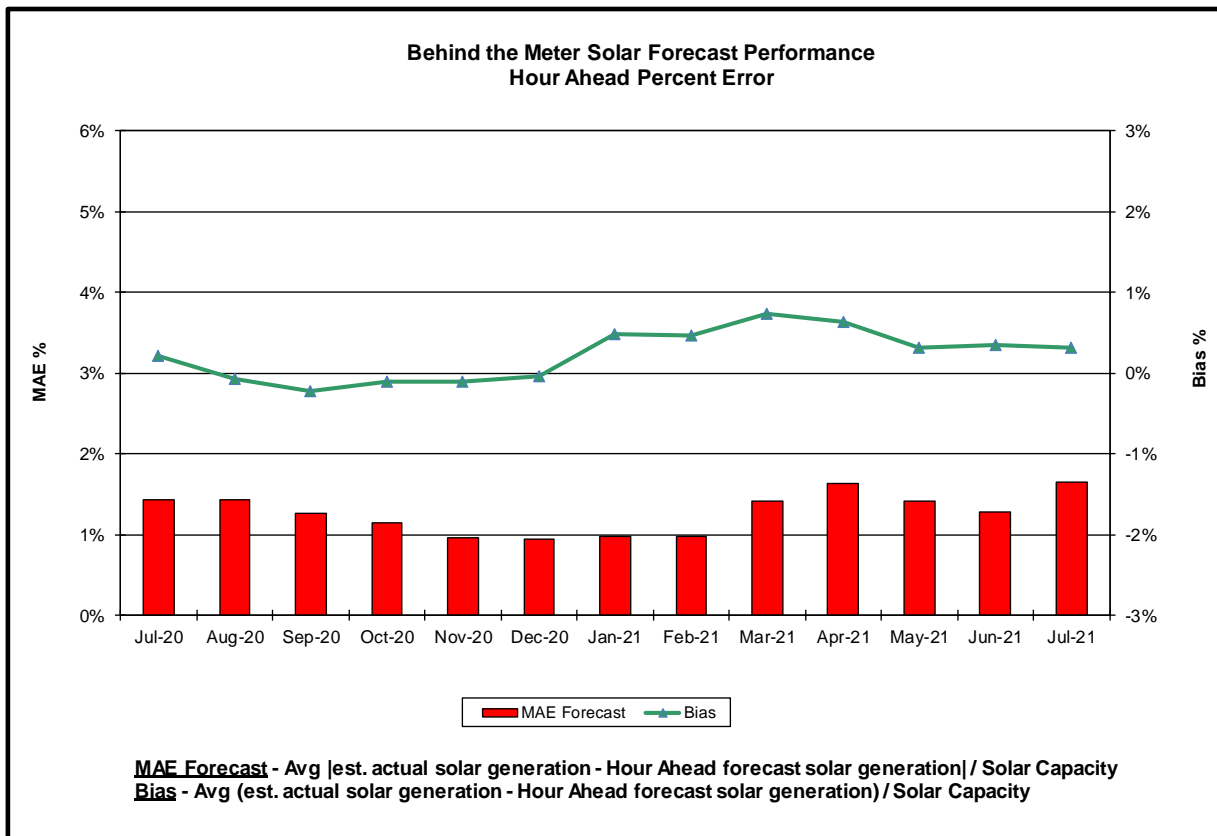
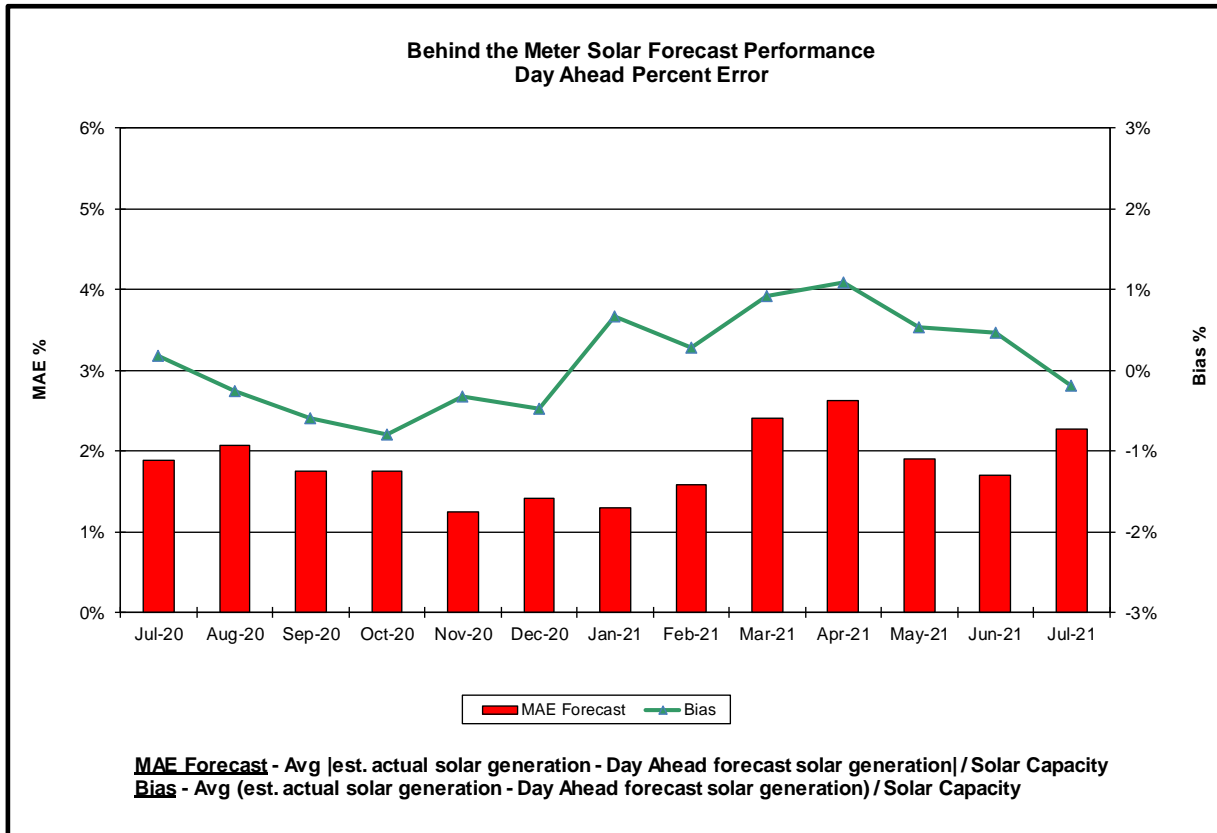


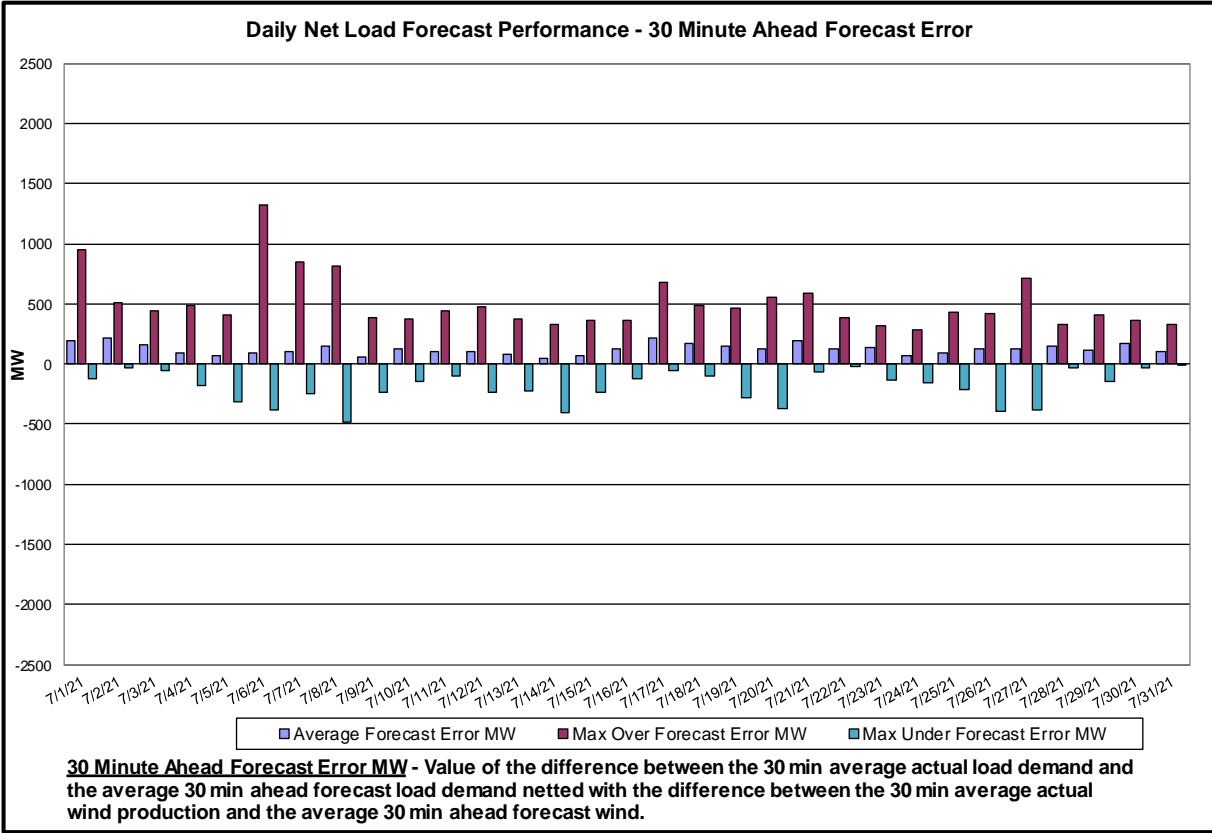
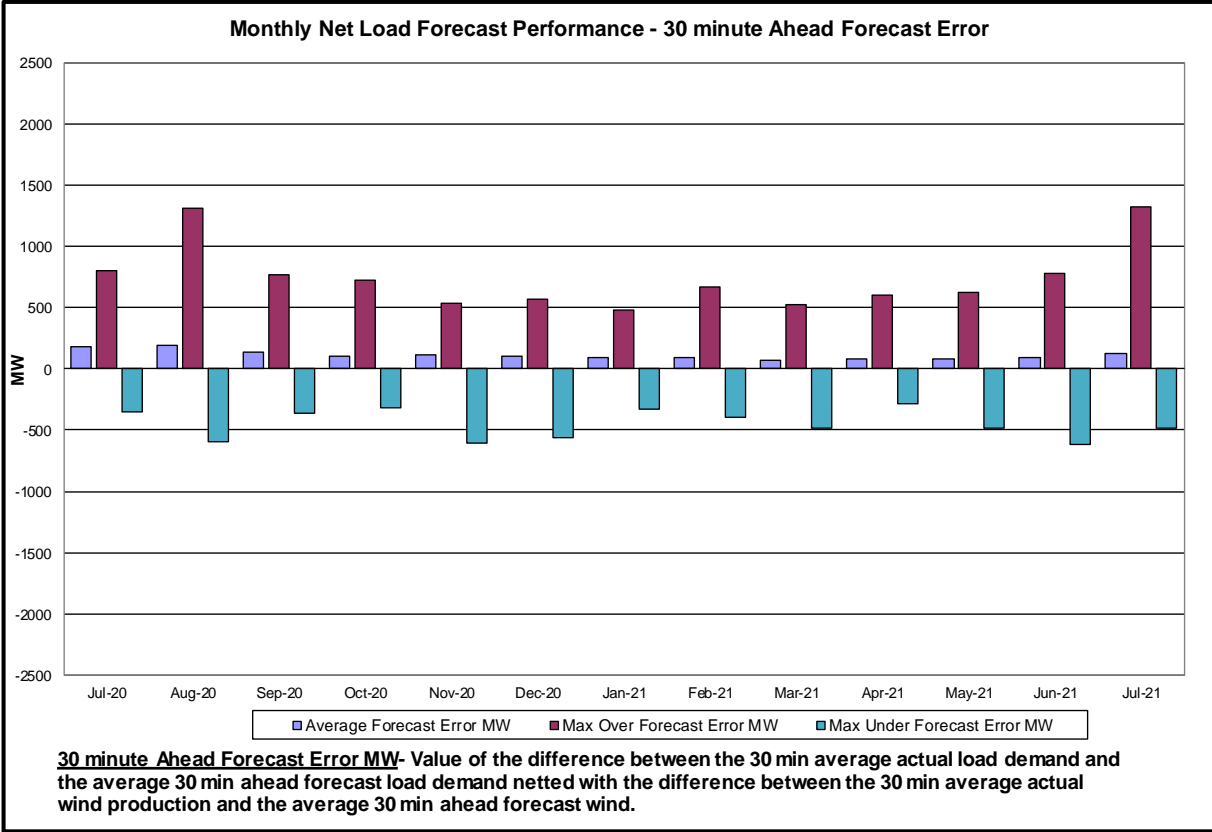


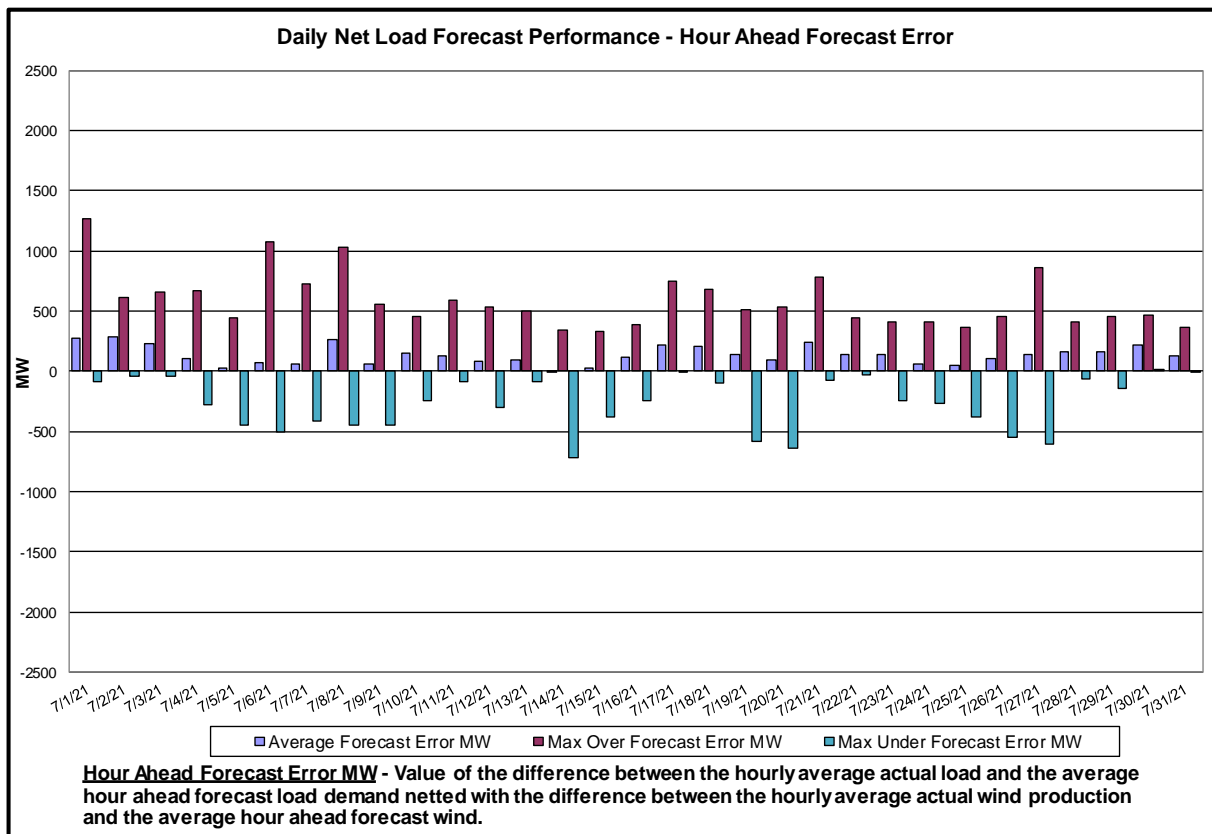
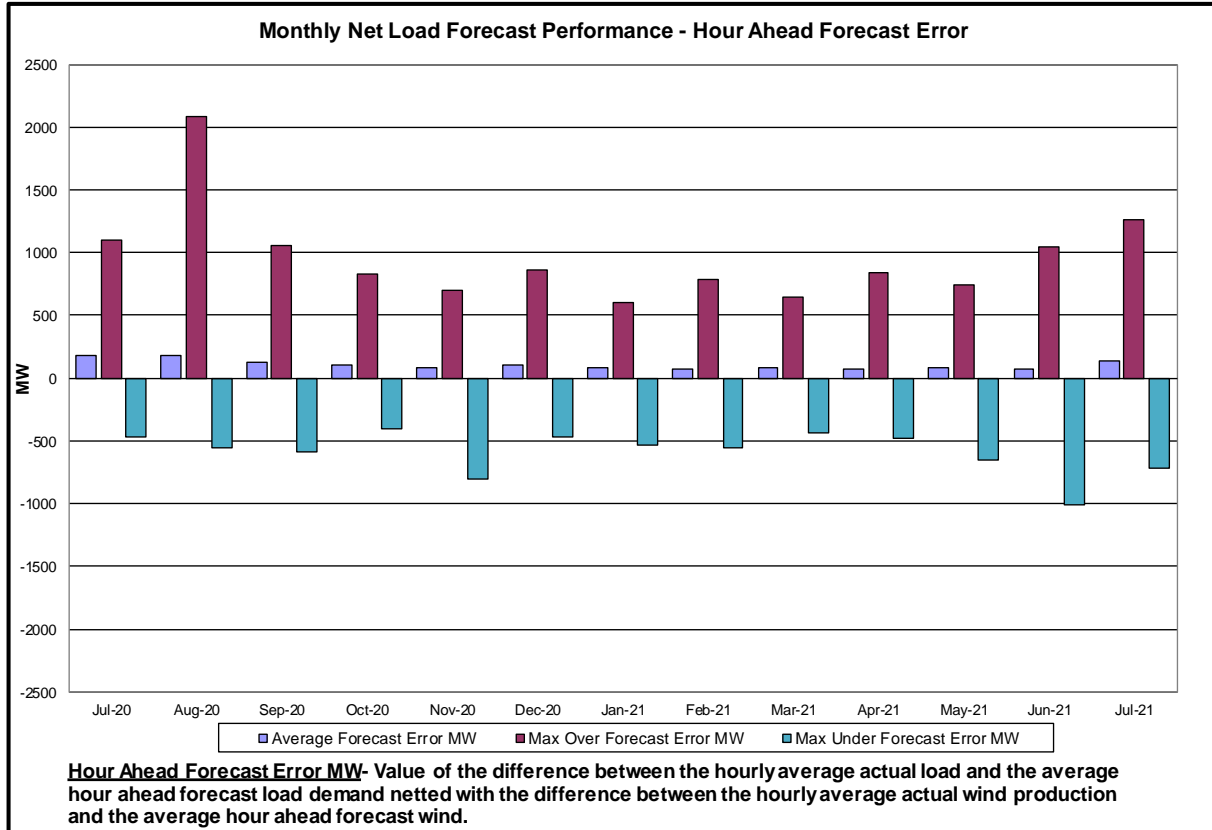


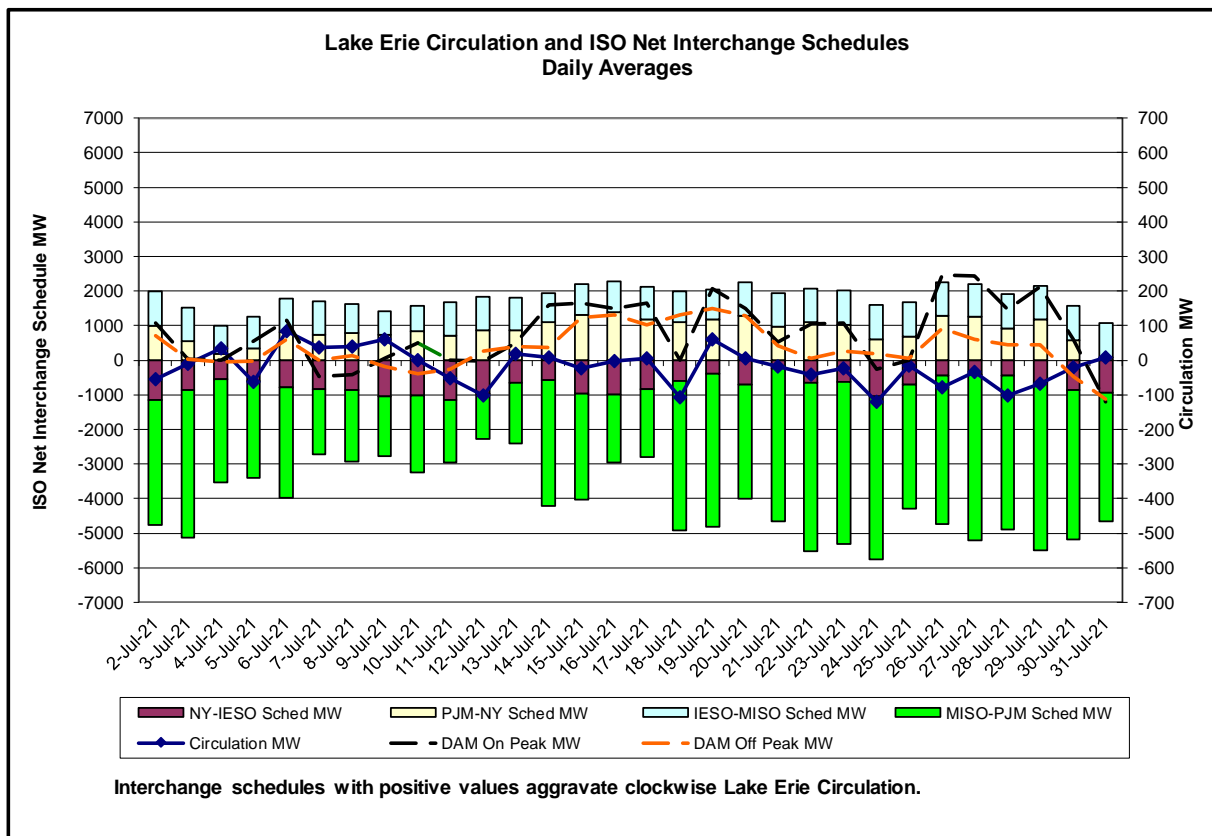
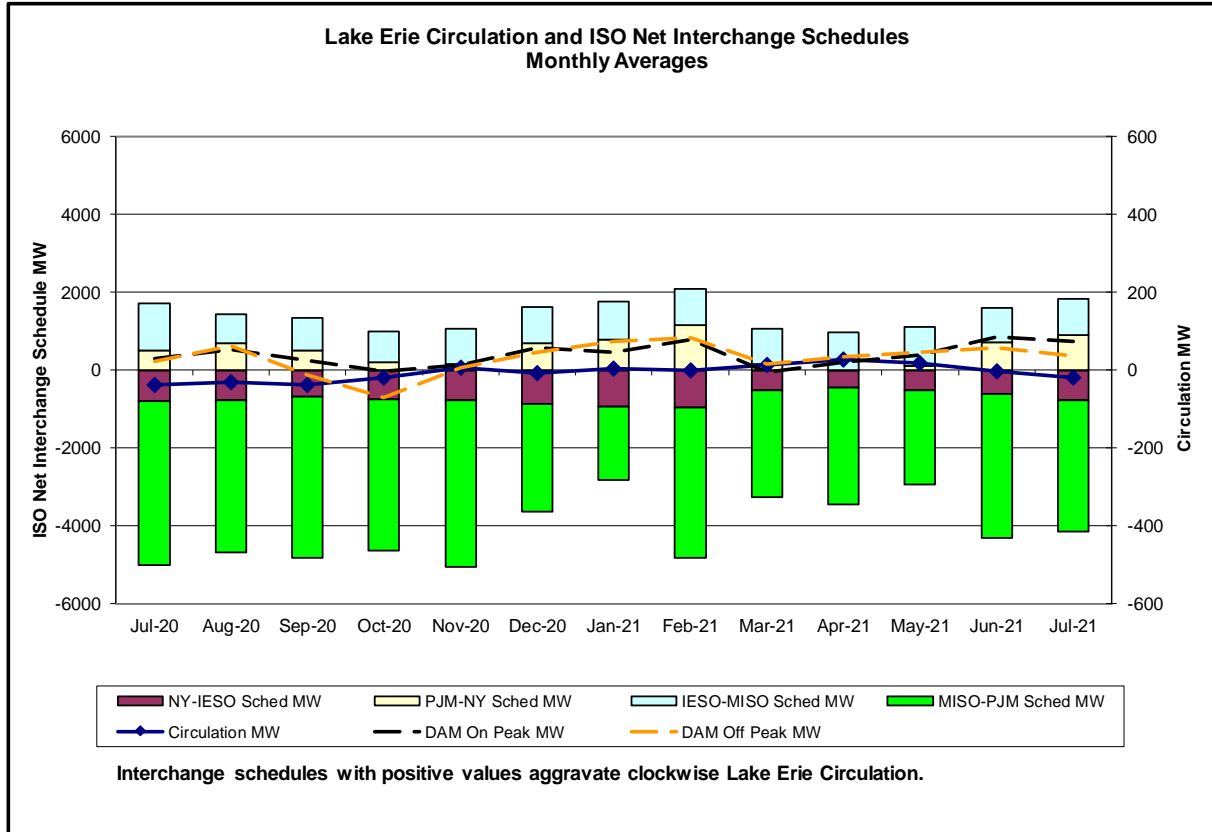




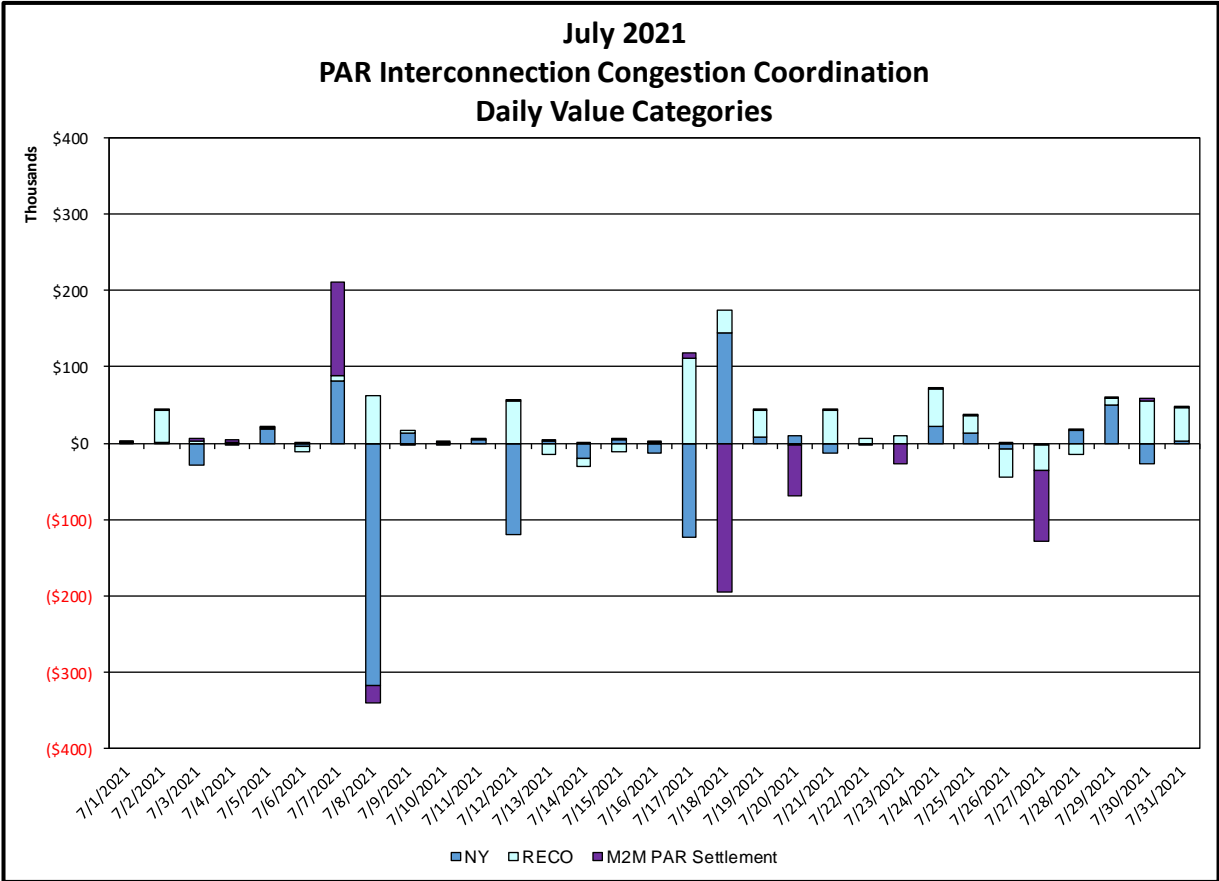
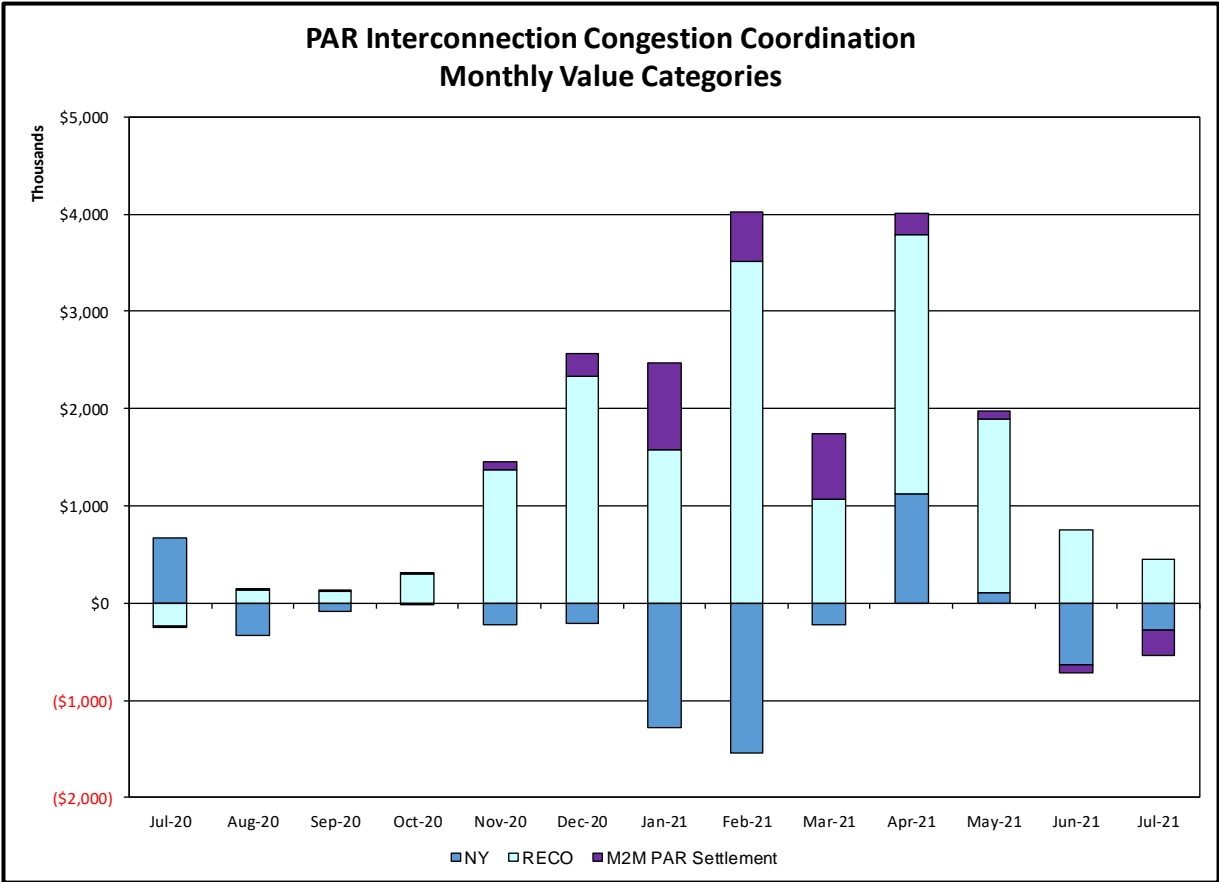






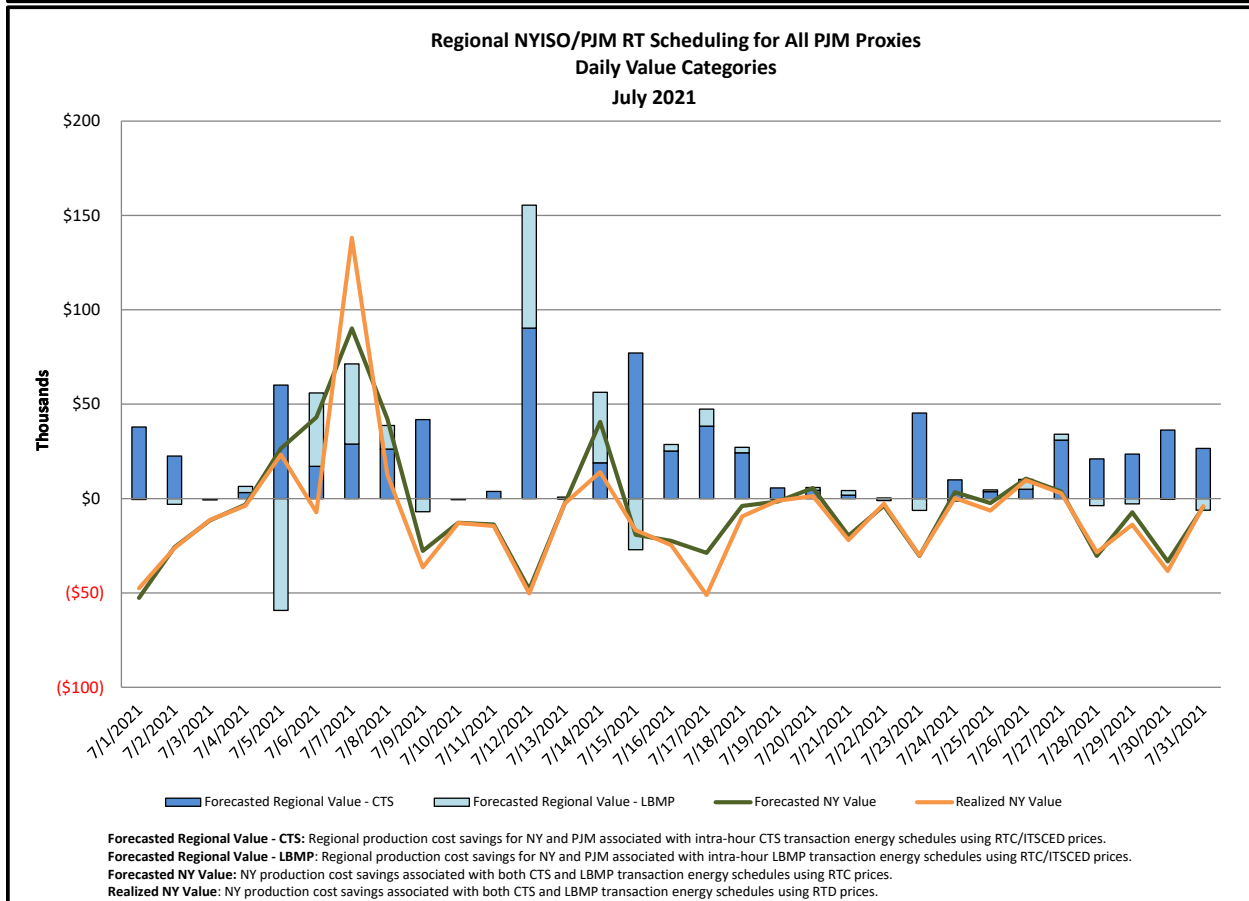
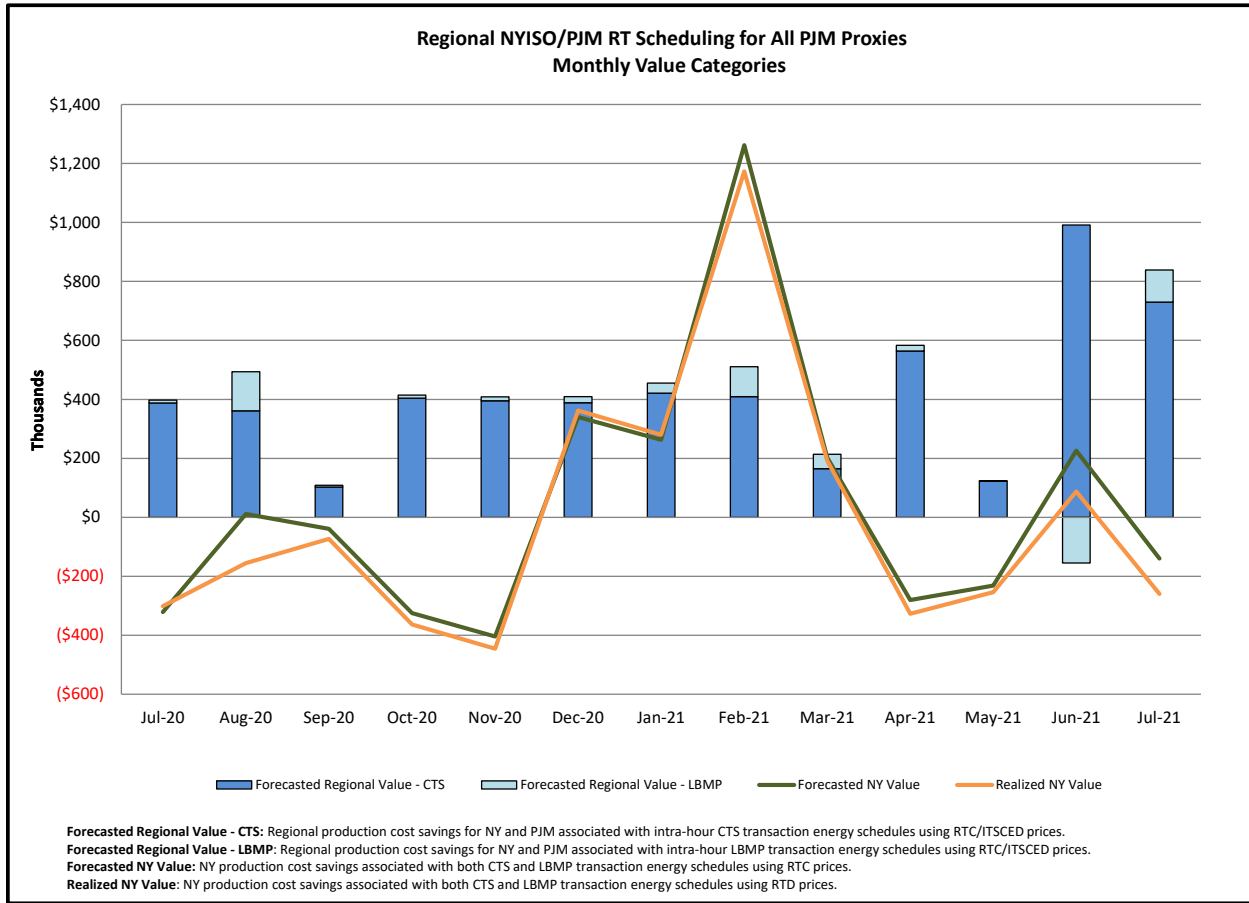


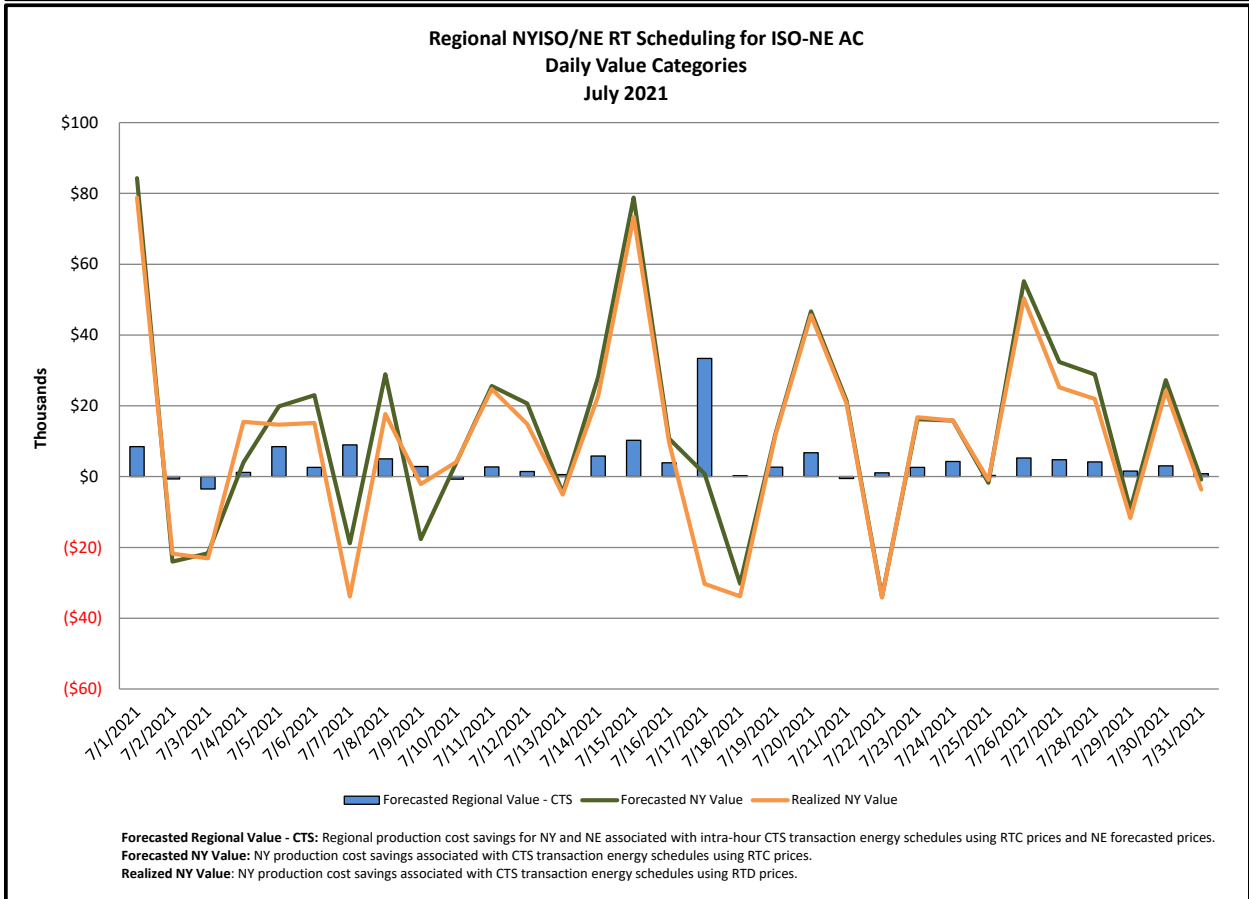
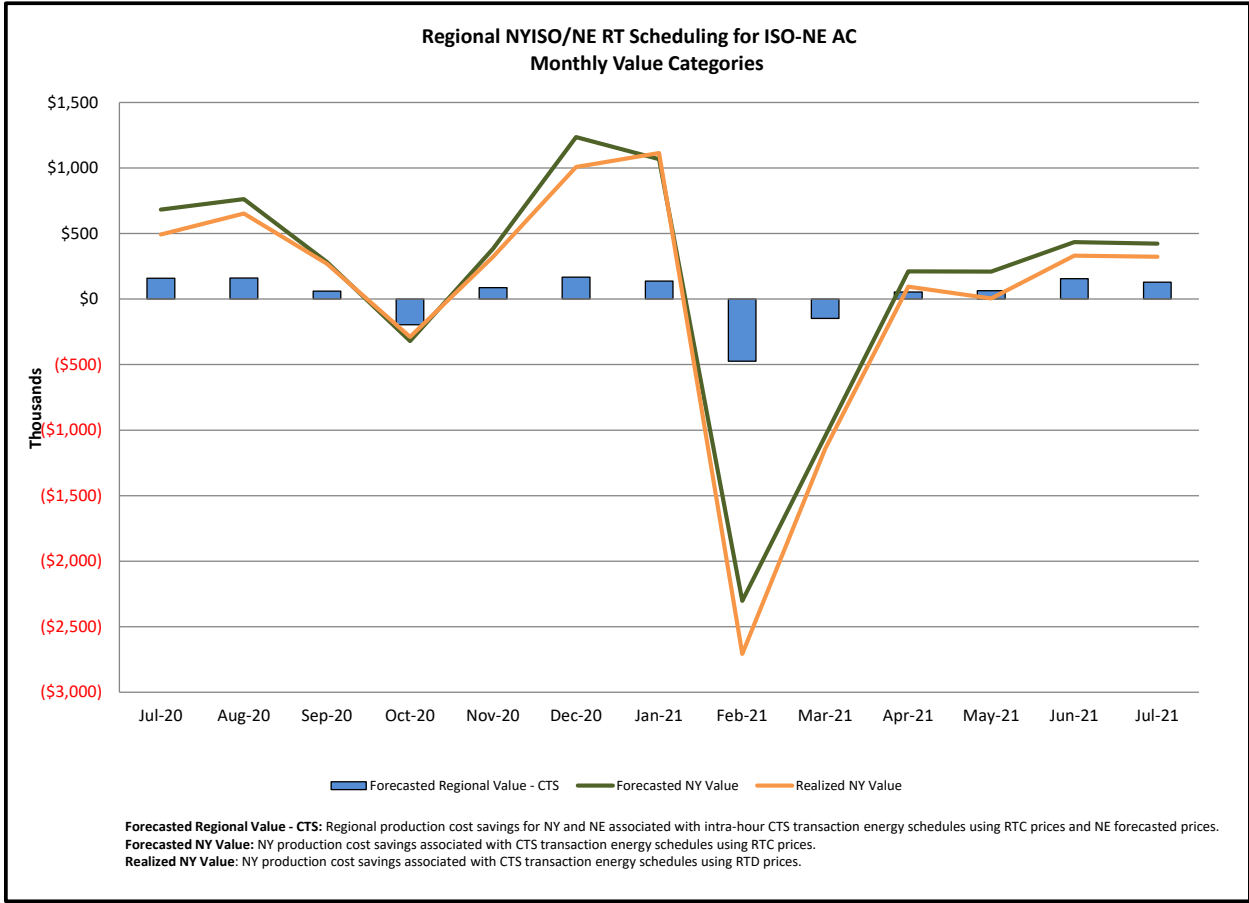
Broader Regional Market Performance Metrics



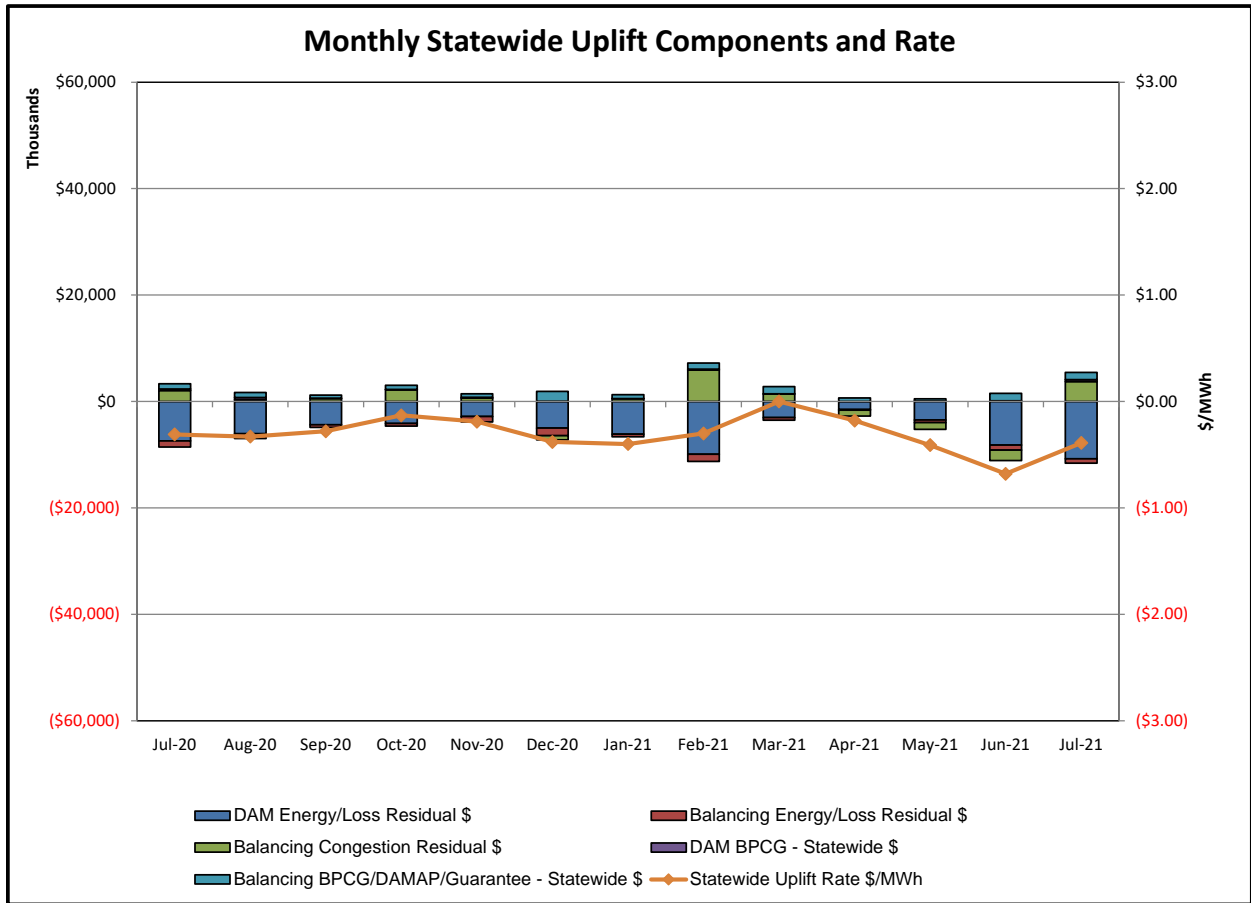
PAR Interconnection Congestion Coordination

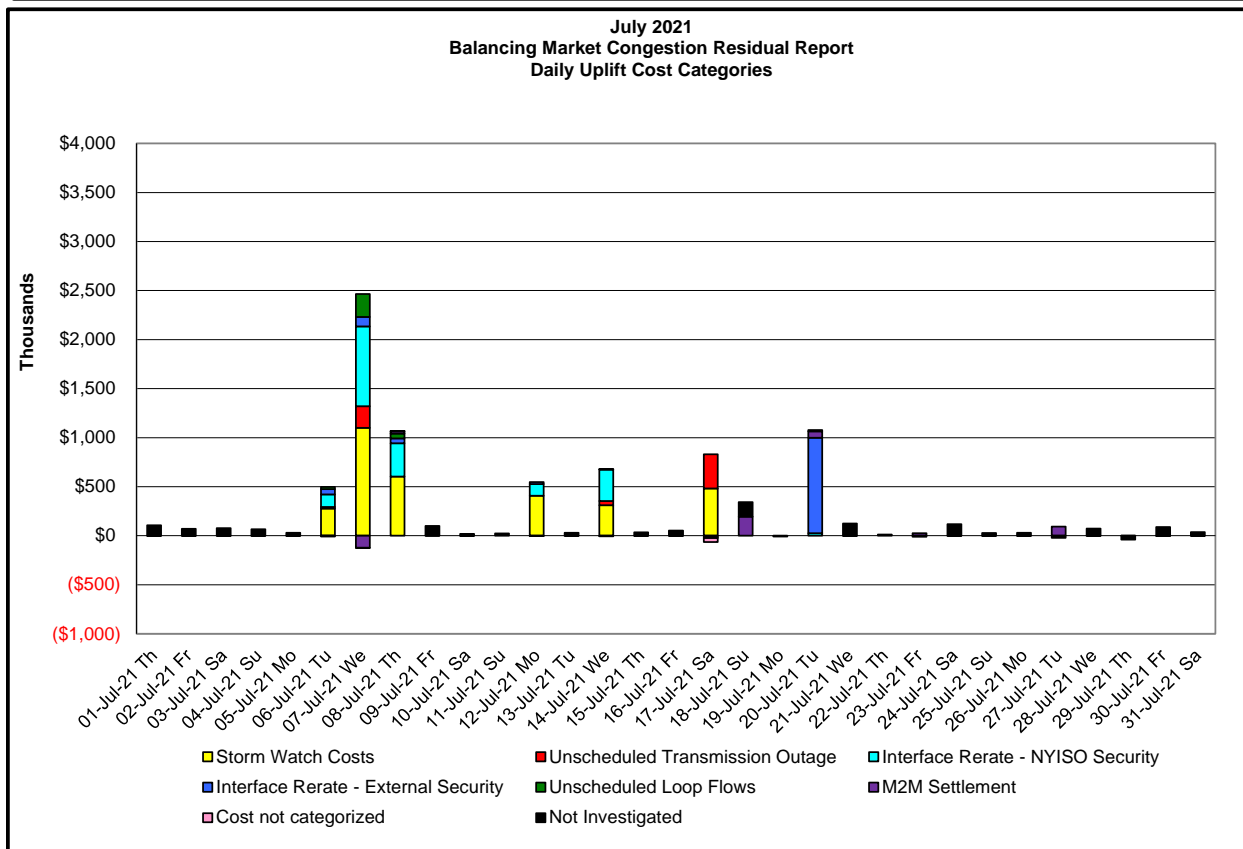
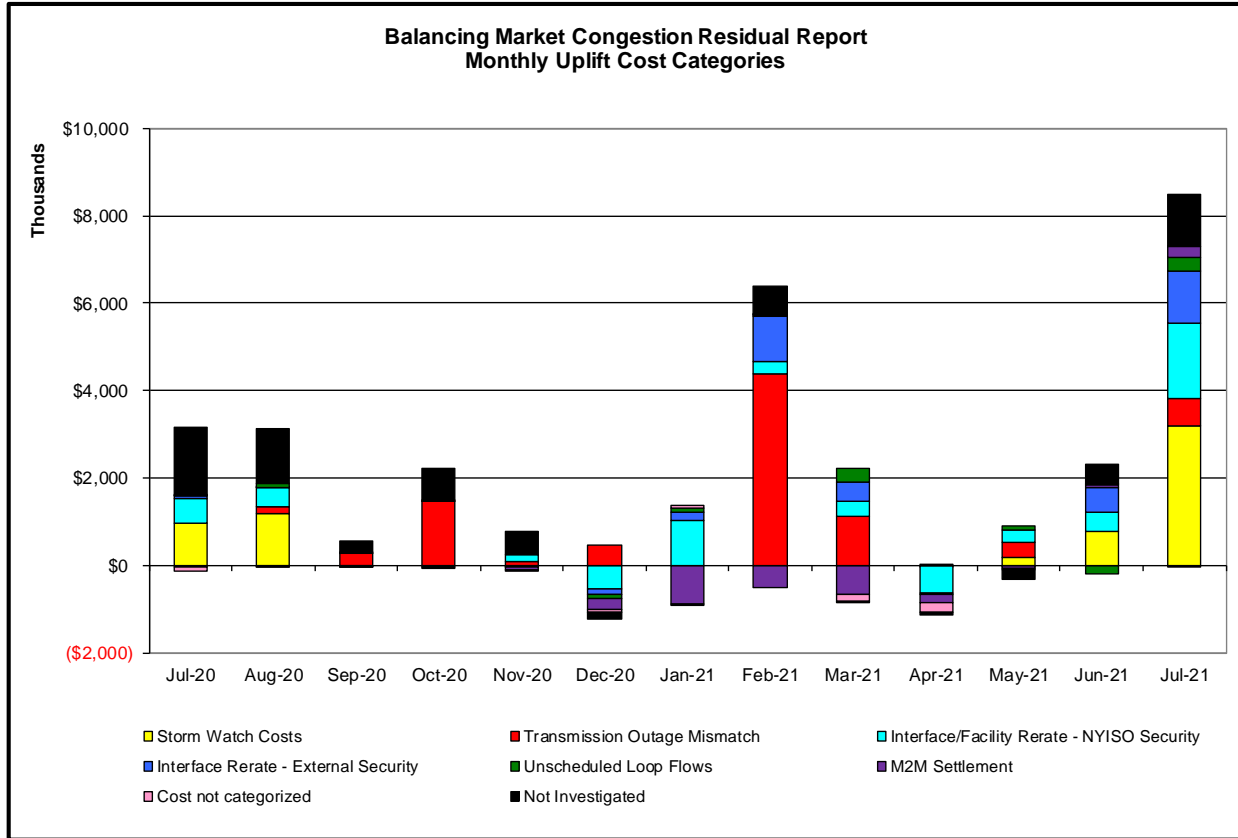
<u>Category</u>	<u>Description</u>
NY	Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY
RECO	Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo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





Market Performance Metrics





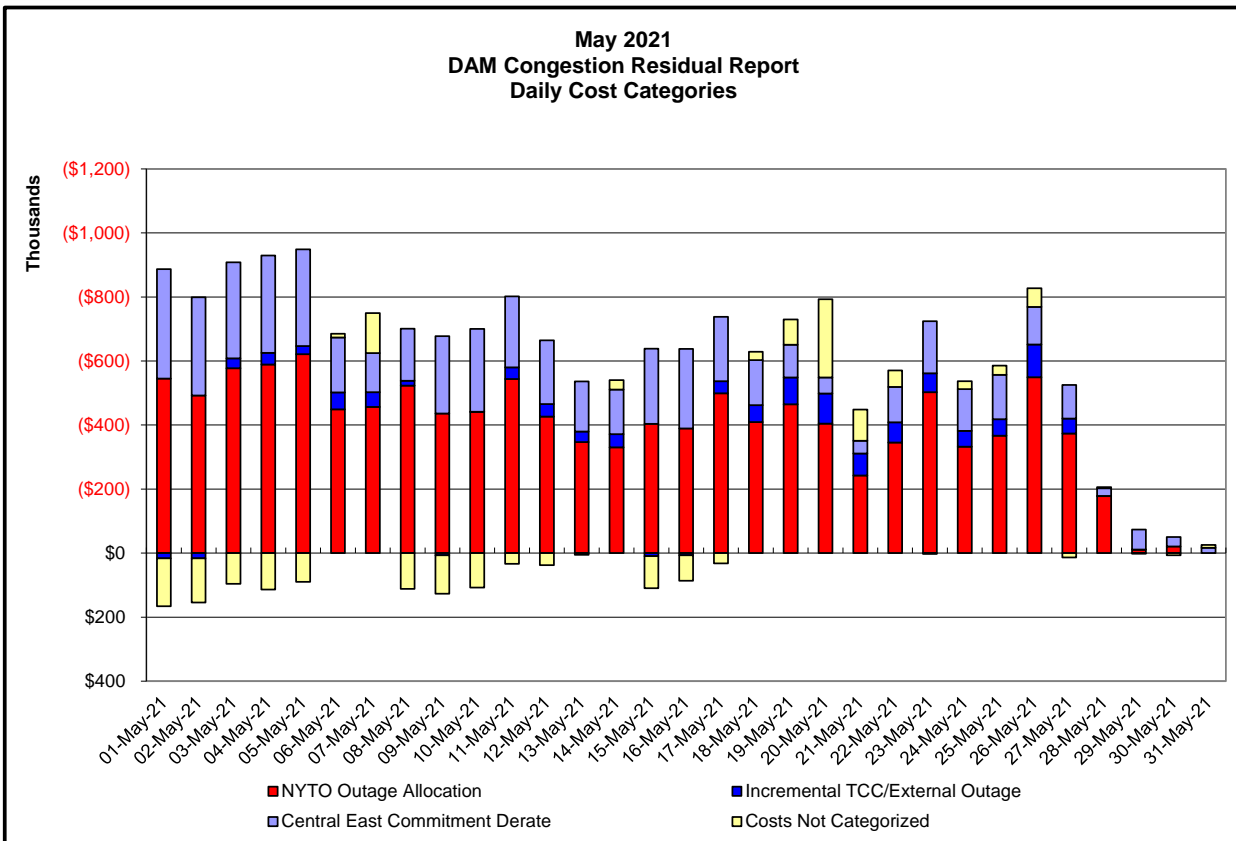
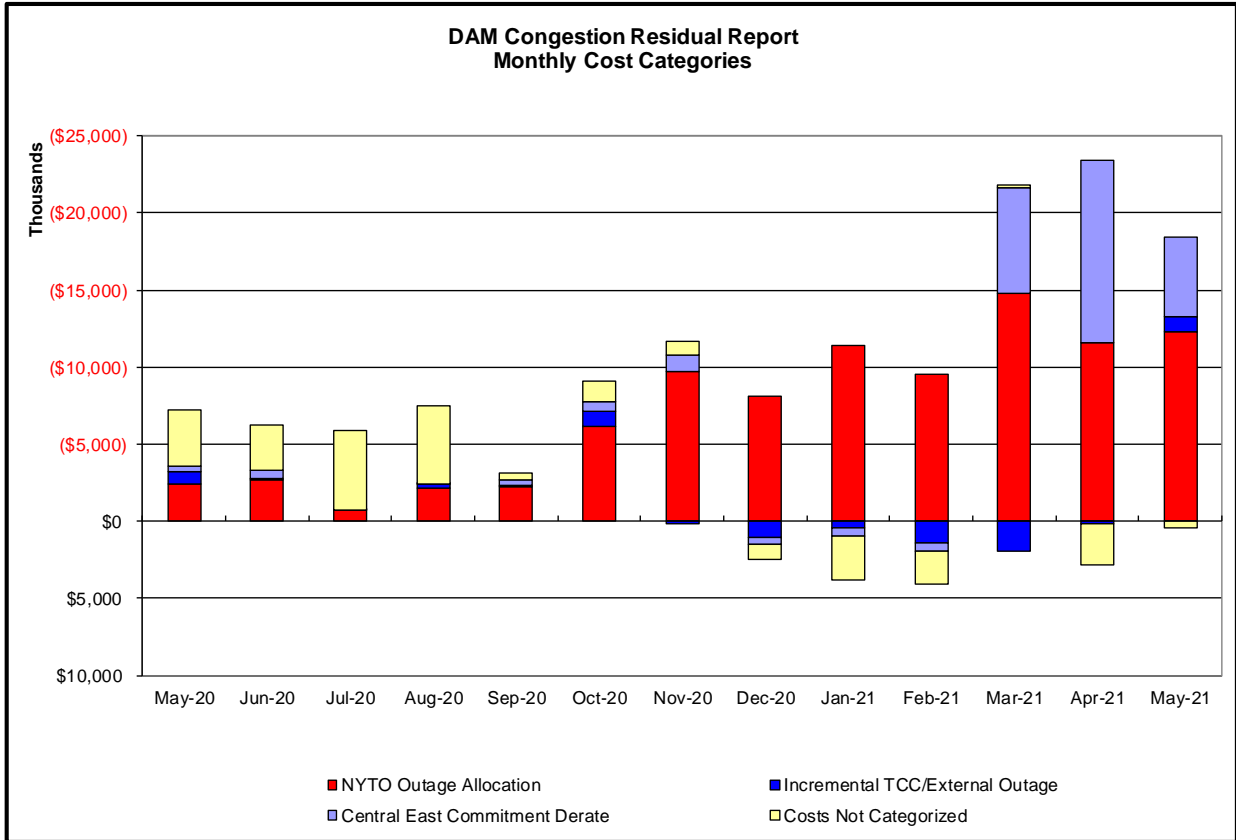
Day's investigated in July: 6,7,8,12,14,17,20			
Event	Date (yyyymmdd)	Hours	Description
	7/6/2021	16-20	Thunder Storm Alert, Buchanan North 345/138kV (Bank TA5)
	7/6/2021	16-19	Thunder Storm Alert, Chester-Shoemaker 138kV (#27)
	7/6/2021	16	Thunder Storm Alert, Pleasant Valley-Leeds 345kV (#92)
	7/6/2021	20,21	Thunder Storm Alert, W49th-Sprainbrook 345kV (#M52)
	7/6/2021	16,18-21	Thunder Storm Alert, HQ Scheduling Limits, curtailment for North Zone TSA
	7/6/2021	20,21	Forced outage of West 49th Street-Sprainbrook 345kV (#M51)
	7/6/2021	9-11	Derate Cricket Valley-Pleasant Valley 345kV (#F83) I/o Cricket Valley-Pleasant Valley 345kV (#F84)
	7/6/2021	14-16	Derate Roseton-East Fishkill 345kV (#RFK305) I/o TWR: Y88 & Y94 & TA5
	7/6/2021	9	Derate Niagara-Packard 230kV (#61) I/o TWR:PACKARD 62 & BP76
	7/6/2021	19	NYCA DNI Ramp Limit
	7/6/2021	14,18	NE_AC DNI Ramp Limit
	7/6/2021	11,20	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	7/7/2021	16-22	Thunder Storm Alert, Buchanan North 345/138kV (Bank TA5)
	7/7/2021	17	Thunder Storm Alert, Buchanan South-Ladentown 345kV (#Y88)
	7/7/2021	16-22	Thunder Storm Alert, Chester-Shoemaker 138kV (#27)
	7/7/2021	17,18	Thunder Storm Alert, Roseton-East Fishkill 345kV 345kV (#RFK305)
	7/7/2021	17	Thunder Storm Alert, Athens-Pleasant Valley 345kV (#91)
	7/7/2021	16-18	Thunder Storm Alert, Pleasant Valley-Leeds 345kV (#92)
	7/7/2021	17	Thunder Storm Alert, W49th-Sprainbrook 345kV (#M52)
	7/7/2021	9,10,17	Forced outage of West 49th Street-Sprainbrook 345kV (#M51)
	7/7/2021	17,18,22	NYCA DNI Ramp Limit
	7/7/2021	19	Derate Dunwoodie-Shore Rd 345kV (#Y50)
	7/7/2021	16,18,19	Derate Dunwoodie-Shore Rd 345kV (#Y50) I/o SCB:SPBK(RNS2):Y49&M29&Y49_ST
	7/7/2021	9,10	Derate East 179th Street- Dunwoodie South 138kV (#99153) Base Case
	7/7/2021	16	Derate Roseton-East Fishkill 345kV (#RFK305) I/o TWR: Y88 & Y94 & TA5
	7/7/2021	15	Uprate Gowanus-Goethals 345kV (#25)
	7/7/2021	13-15	Uprate Niagara Blvd-Packard 115kV (#181) Base Case
	7/7/2021	13-15	Uprate Niagara Blvd-Packard 115kV (#181) I/oTWR:PACKARD 77 & 78 & Sawyer Bks
	7/7/2021	19	NE_AC-NY Scheduling Limit
	7/7/2021	15	NE_NNC1385-NY Scheduling Limit
	7/7/2021	16,17,22	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	7/8/2021	13,14	Thunder Storm Alert, Buchanan North 345/138kV (Bank TA5)
	7/8/2021	13,14	Thunder Storm Alert, Buchanan South-Ladentown 345kV (#Y88)
	7/8/2021	13-21	Thunder Storm Alert, Chester-Shoemaker 138kV (#27)
	7/8/2021	19	Derate Adirondack-Moses 230kV (#MA1) I/o SIN:MSU1&7040& HQ GN&LD PROXY
	7/8/2021	13	Derate Roseton-East Fishkill 345kV (#RFK305) I/o TWR: Y88 & Y94 & TA5
	7/8/2021	12-15	NYCA DNI Ramp Limit
	7/8/2021	9,12,13	HQ_CHAT-NY Scheduling Limit
	7/8/2021	18	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	7/8/2021	10,19	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	7/12/2021	18-21	Thunder Storm Alert, Buchanan North 345/138kV (Bank TA5)
	7/12/2021	15-21	Thunder Storm Alert, Chester-Shoemaker 138kV (#27)
	7/12/2021	15-21	Thunder Storm Alert, HQ Scheduling Limits, curtailment for North Zone TSA
	7/12/2021	19,20	Derate Cricket Valley-Pleasant Valley 345kV (#F83) I/o Cricket Valley-Pleasant Valley 345kV (#F84)
	7/12/2021	16	NYCA DNI Ramp Limit
	7/12/2021	0	IESO_AC-NY Scheduling Limit
	7/14/2021	17-19	Thunder Storm Alert, Buchanan North 345/138kV (Bank TA5)
	7/14/2021	18	Thunder Storm Alert, Chester-Shoemaker 138kV (#27)
	7/14/2021	17	Thunder Storm Alert, Rock Tavern - Roseton 345kV (#311)
	7/14/2021	10-16	Forced outage of West 49th Street-Sprainbrook 345kV (#M51)
	7/14/2021	23	Derate Adirondack-Moses 230kV (#MA1) I/o SIN:MSU1&7040& HQ GN&LD PROXY
	7/14/2021	14-18	Derate Dunwoodie-Shore Rd 345kV (#Y50)
	7/14/2021	10-16	Derate East 179th Street- Dunwoodie South 138kV (#99153) Base Case
	7/14/2021	22	Uprate Brentwood-Pilgrim 69kV (#768) I/o BUS:PILGRIM_660_765&BK3
	7/14/2021	22	NYCA DNI Ramp Limit
	7/14/2021	20	NE_AC-NY Scheduling Limit
	7/14/2021	22,23	IESO_AC-NY Scheduling Limit
	7/14/2021	20,22	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	7/14/2021	11	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	7/17/2021	14-20	Thunder Storm Alert, Buchanan North 345/138kV (Bank TA5)
	7/17/2021	14,15,21	Thunder Storm Alert, Pleasant Valley-Leeds 345kV (#92)
	7/17/2021	19-23	Thunder Storm Alert, W49th-Sprainbrook 345kV (#M52)
	7/17/2021	11,14-16	Forced outage of Dunwoodie-Shore Road 345kV (#Y50)
	7/17/2021	11,19-23	Forced outage of West 49th Street-Sprainbrook 345kV (#M51)
	7/17/2021	11,14-16,18-23	Forced outage of Oakdale-Fraser 345kV (#32)
	7/17/2021	5	Derate Porter-Rotterdam 230kV (#31) for I/o BUS:NSCTLD#77 14&2&93&BK2&C1&3
	7/17/2021	8	Uprate Central East
	7/17/2021	10	IESO_AC-NY Scheduling Limit
	7/20/2021	16,21	Derate East 179th Street- Dunwoodie South 138kV (#99153) Base Case
	7/20/2021	16	Derate MottHaven-Dunwoodie 345kV (#71) for I/o SCB:DUNW(7): W75&72
	7/20/2021	10	Derate MottHaven-Dunwoodie 345kV (#72) for I/o SCB:DUNW(5): W75&71
	7/20/2021	11	Uprate Brentwood-Pilgrim 69kV (#768) I/o BUS:PILGRIM_660_765&BK3
	7/20/2021	21	NYCA DNI Ramp Limit
	7/20/2021	21,22	IESO_AC-NY Scheduling Limit
	7/20/2021	12	NE_NNC1385-NY Scheduling Limit

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

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

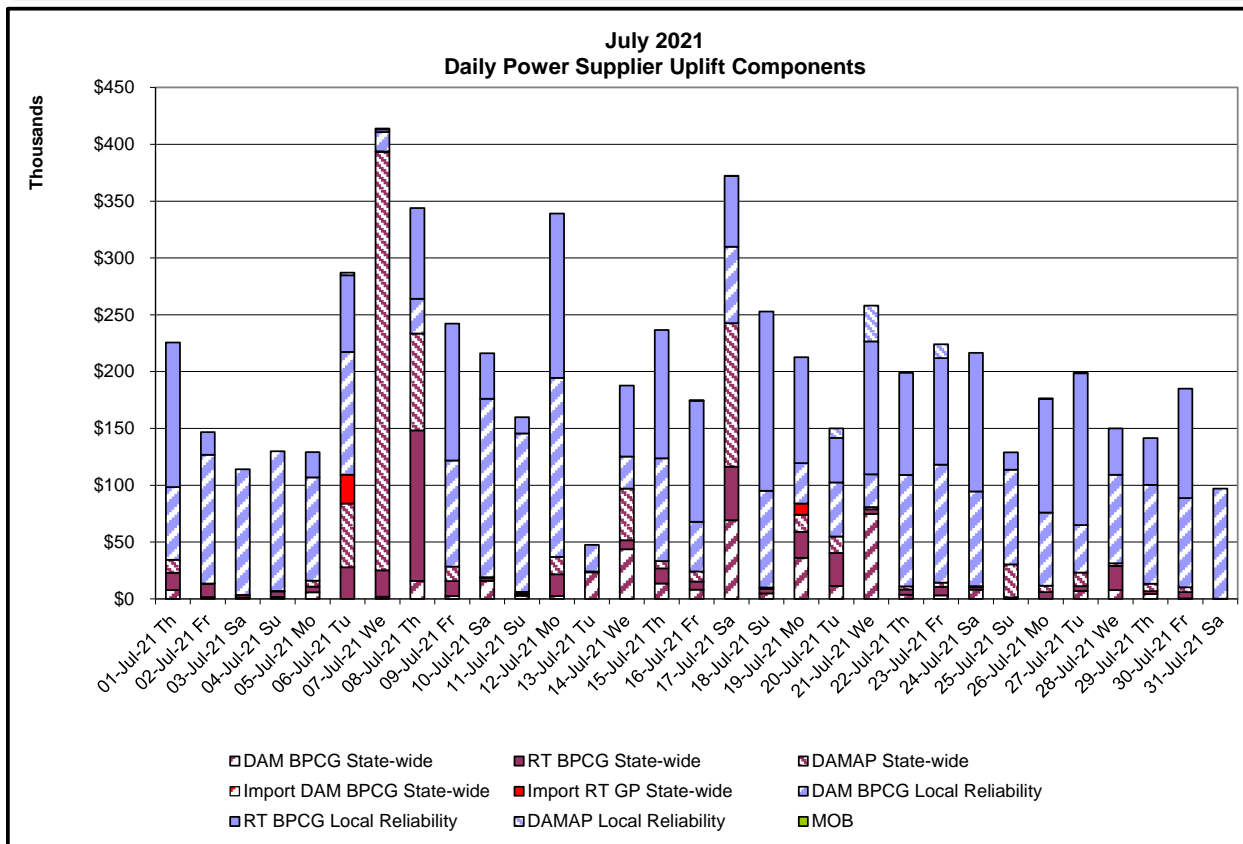
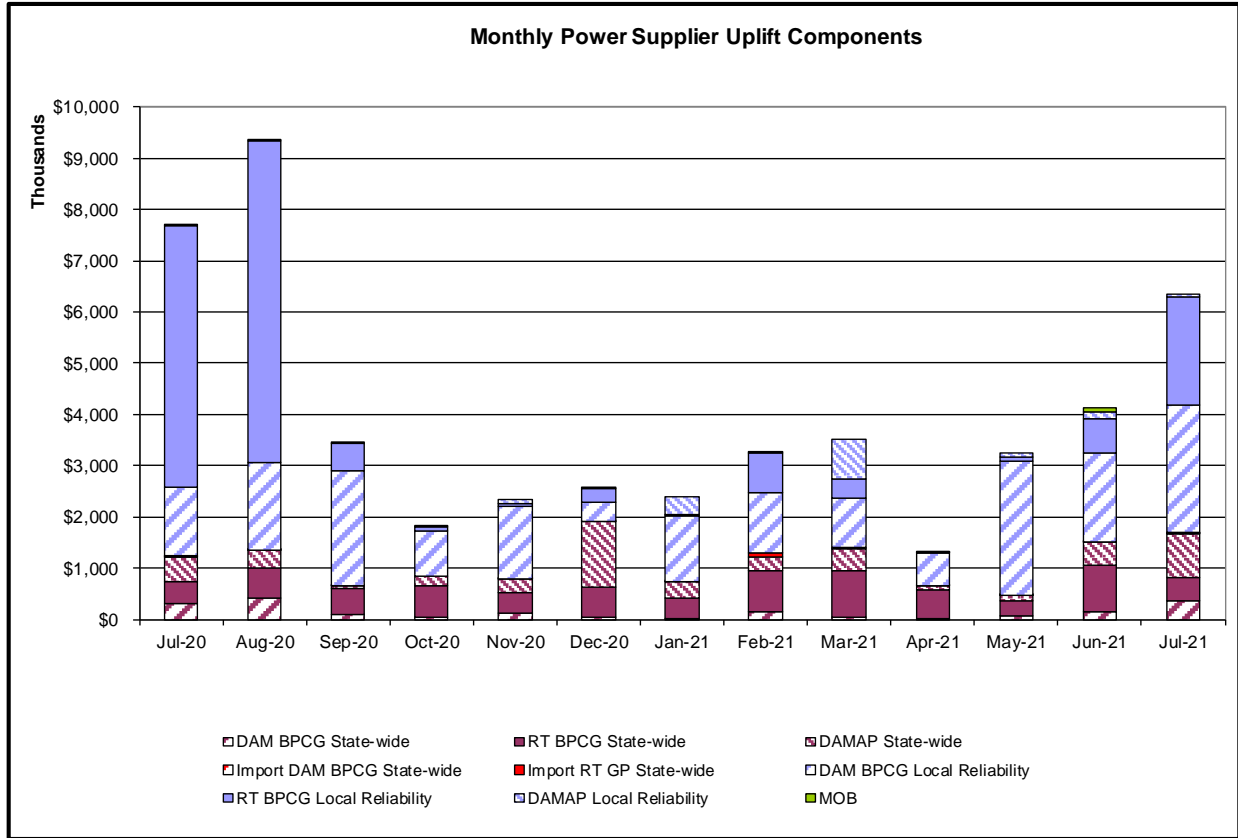
Monthly Balancing Market Congestion Report Assumptions/Notes

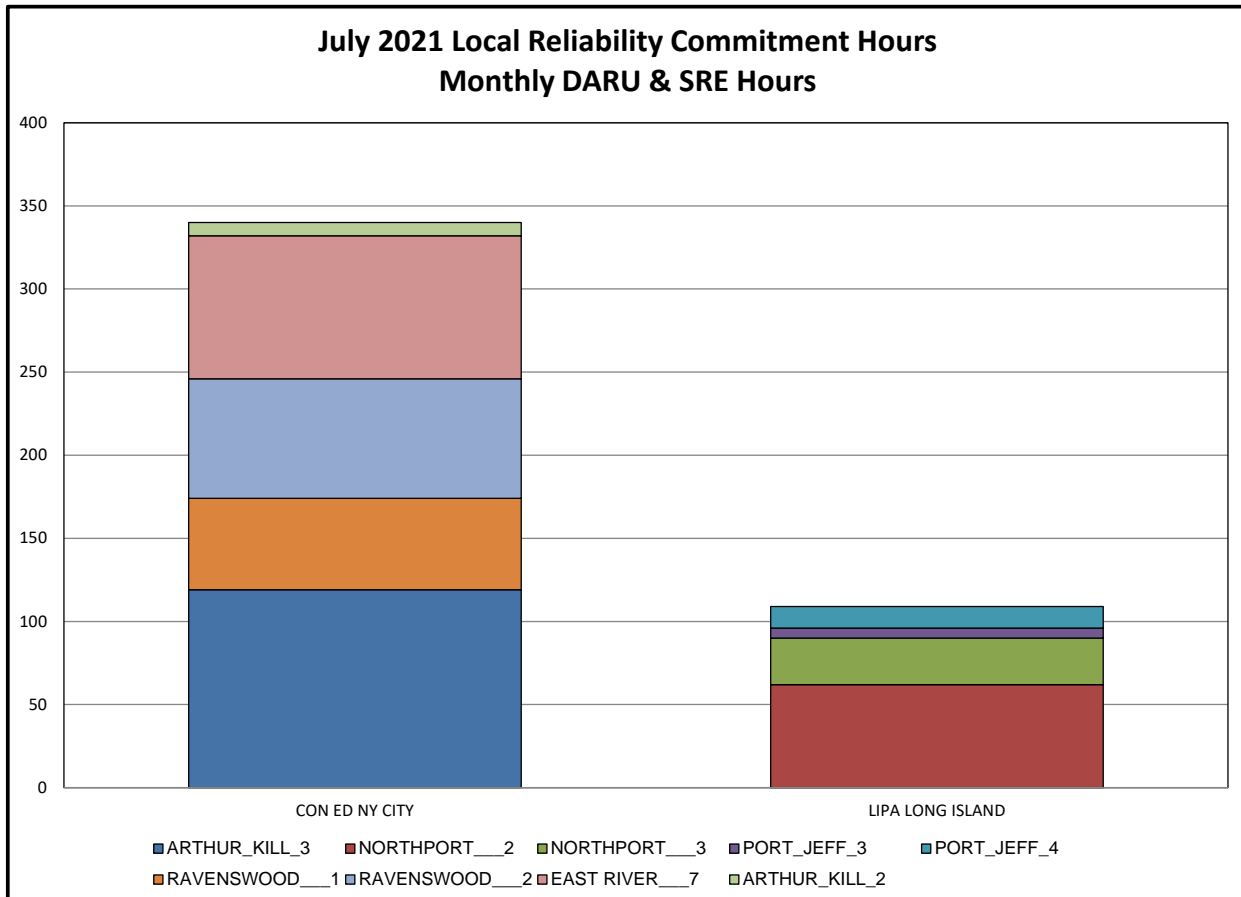
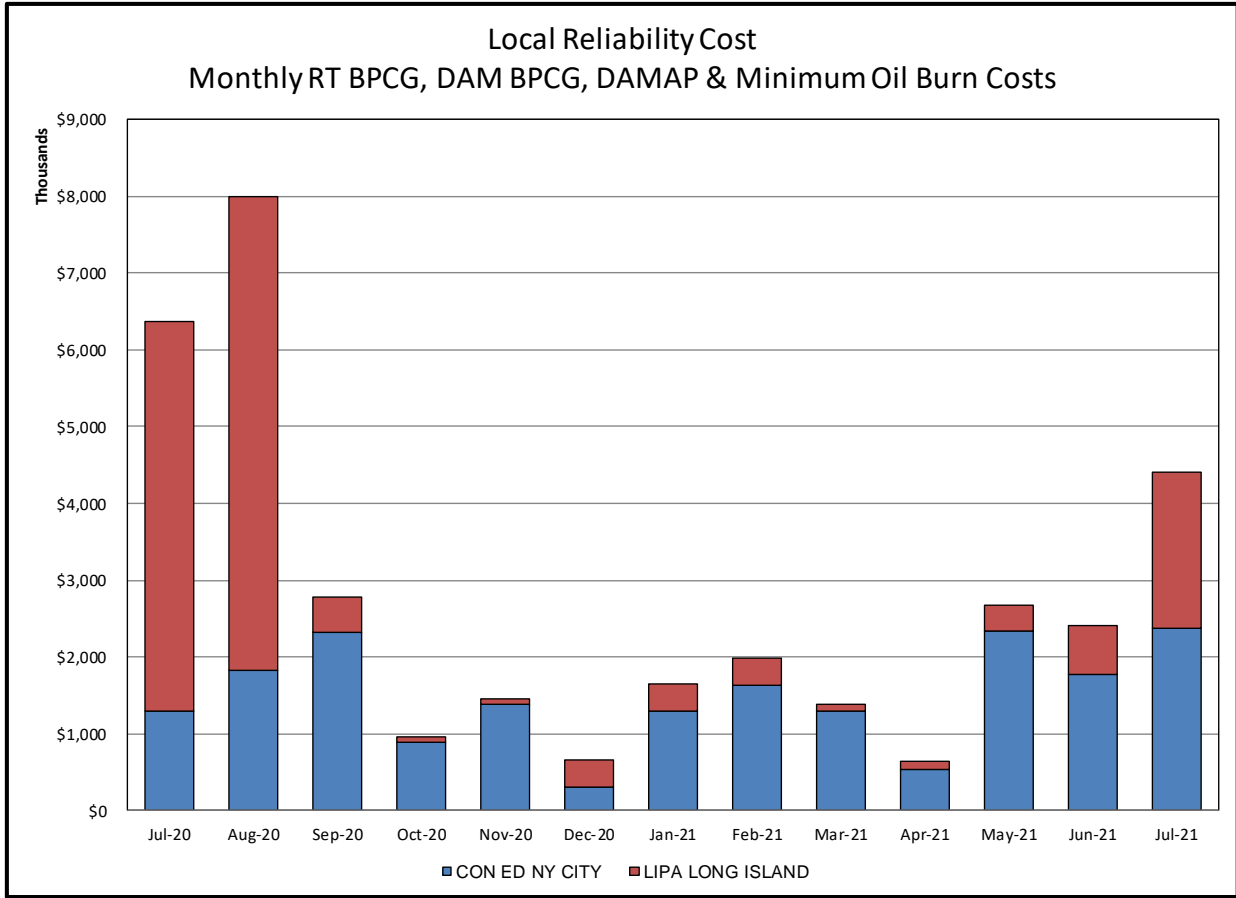
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

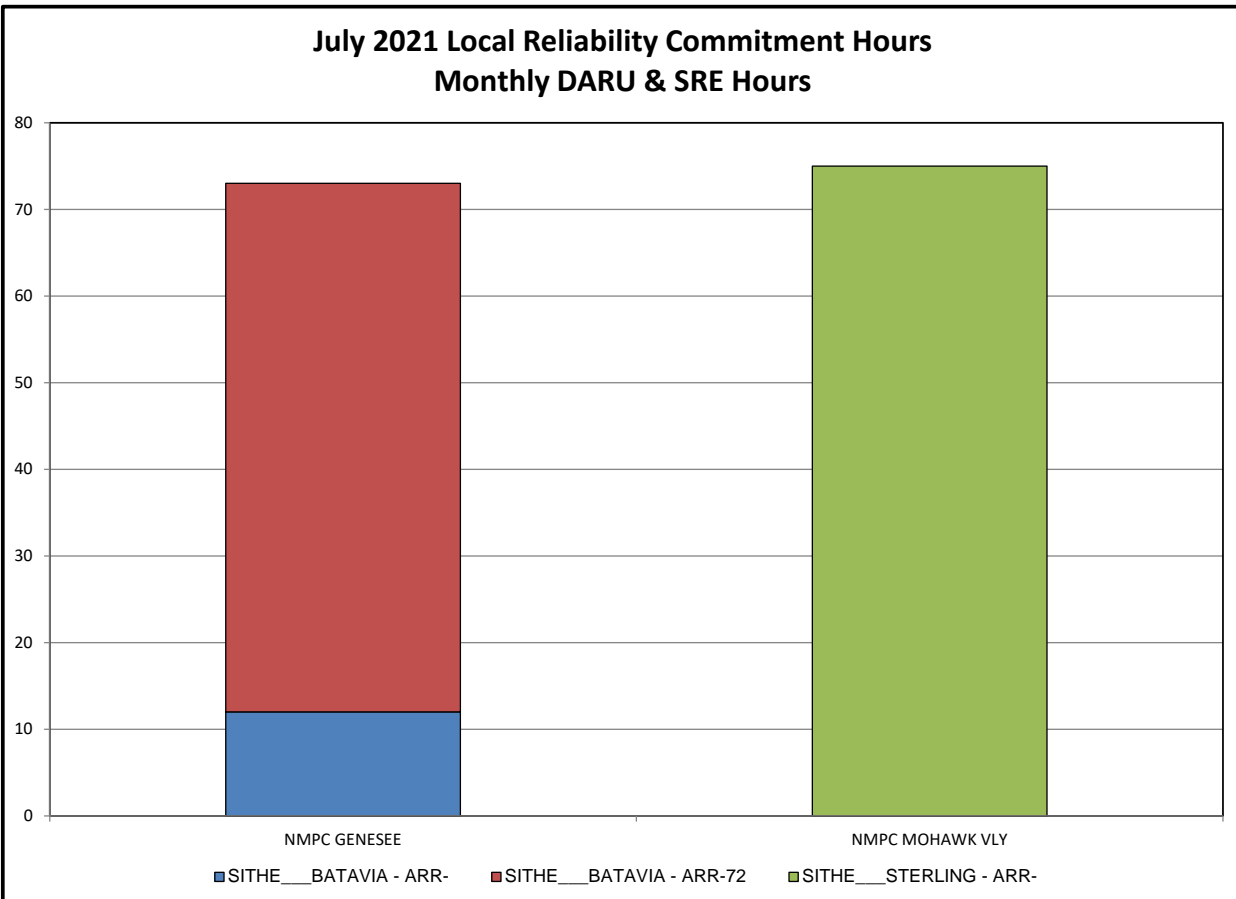
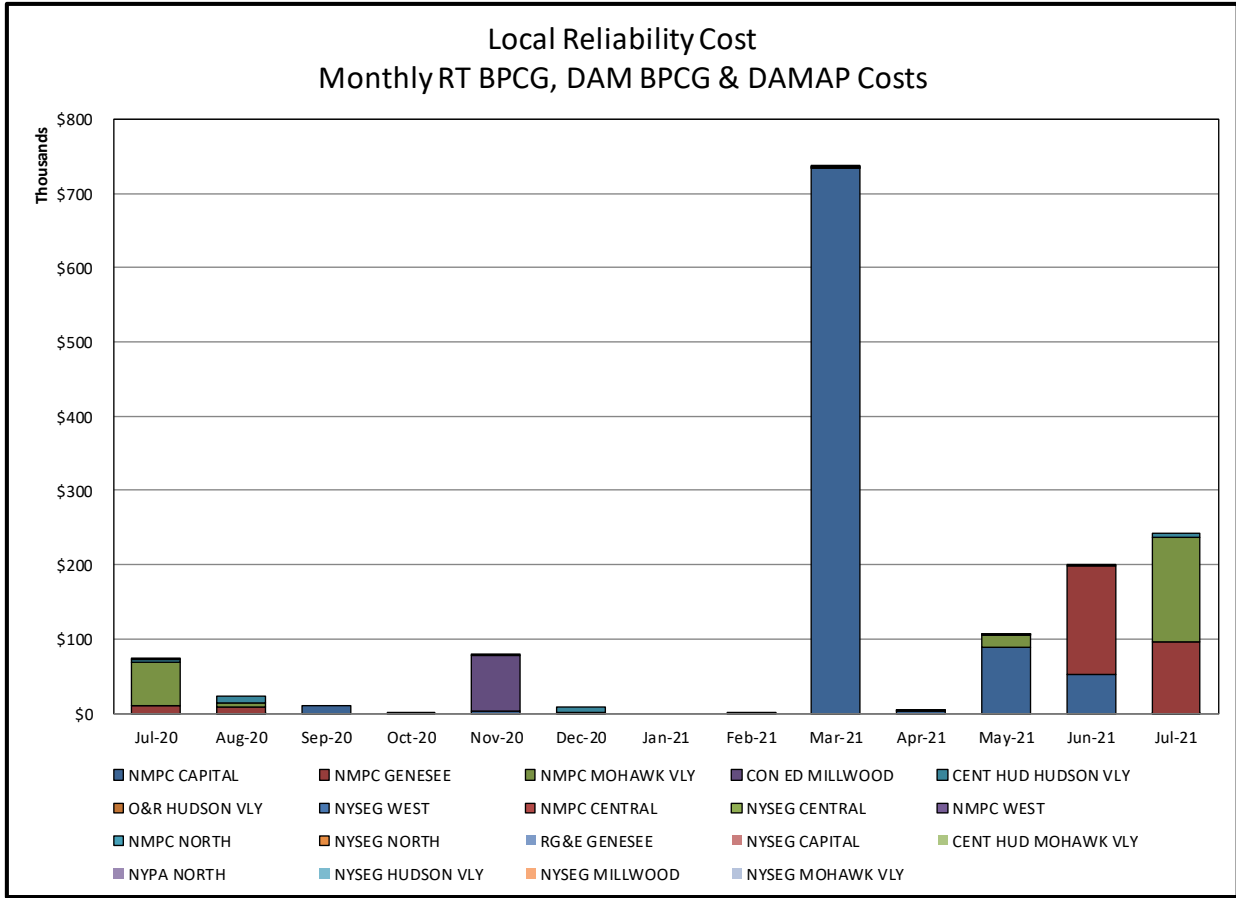


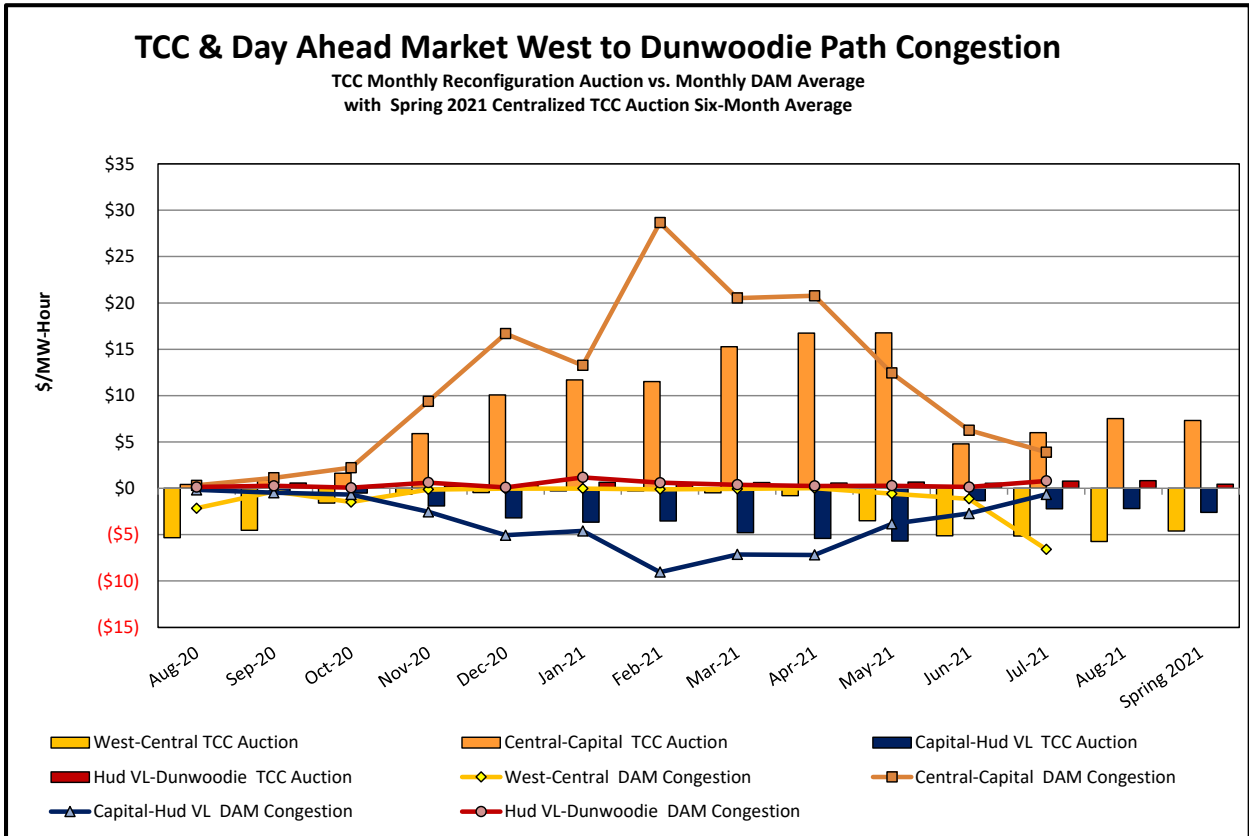
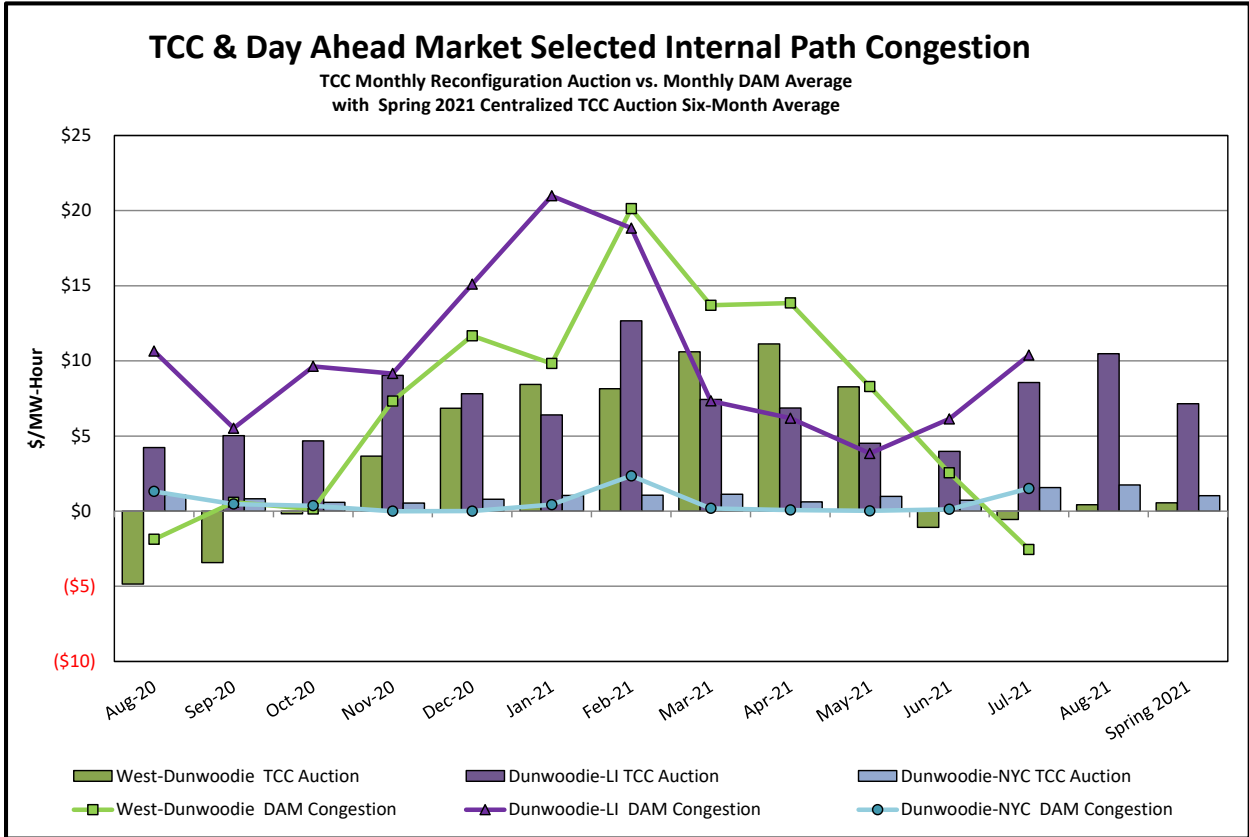
Day-Ahead Market Congestion Residual Categories

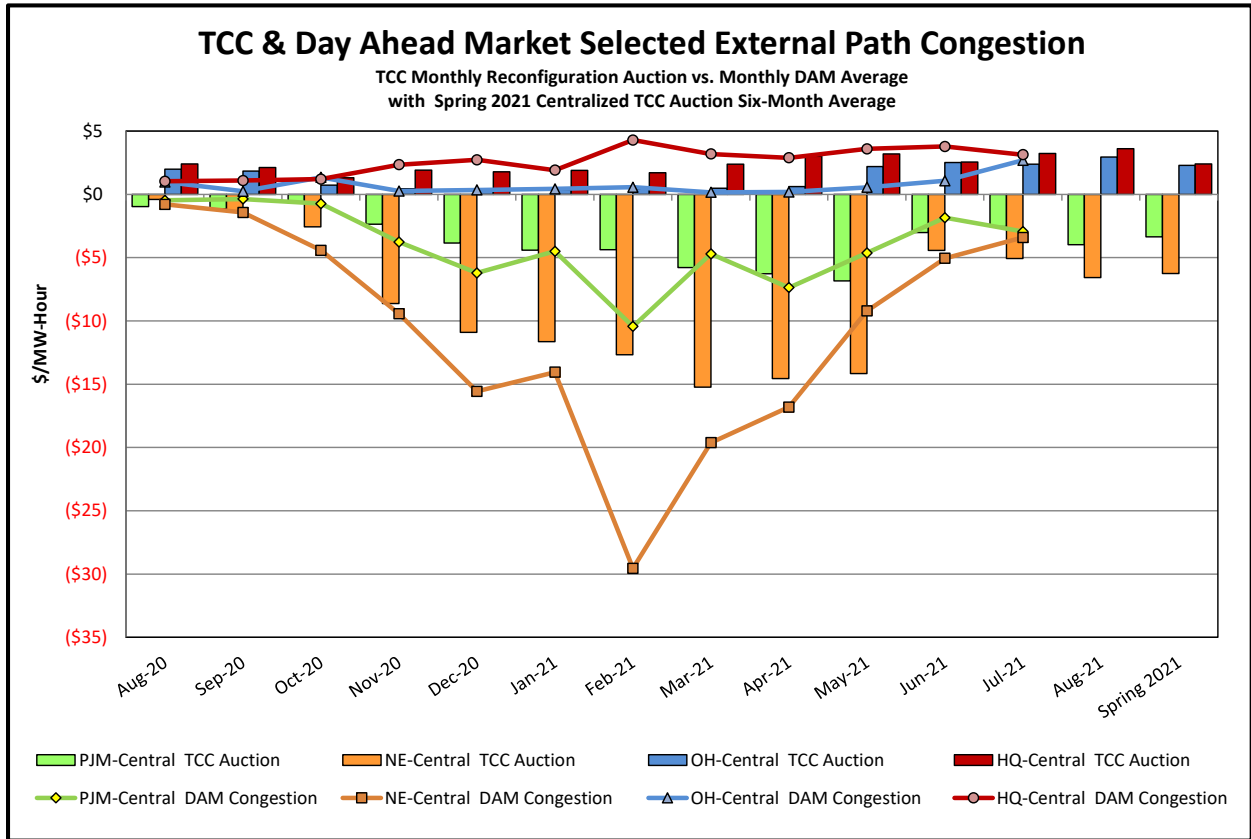
<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
Incremental TCC/External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

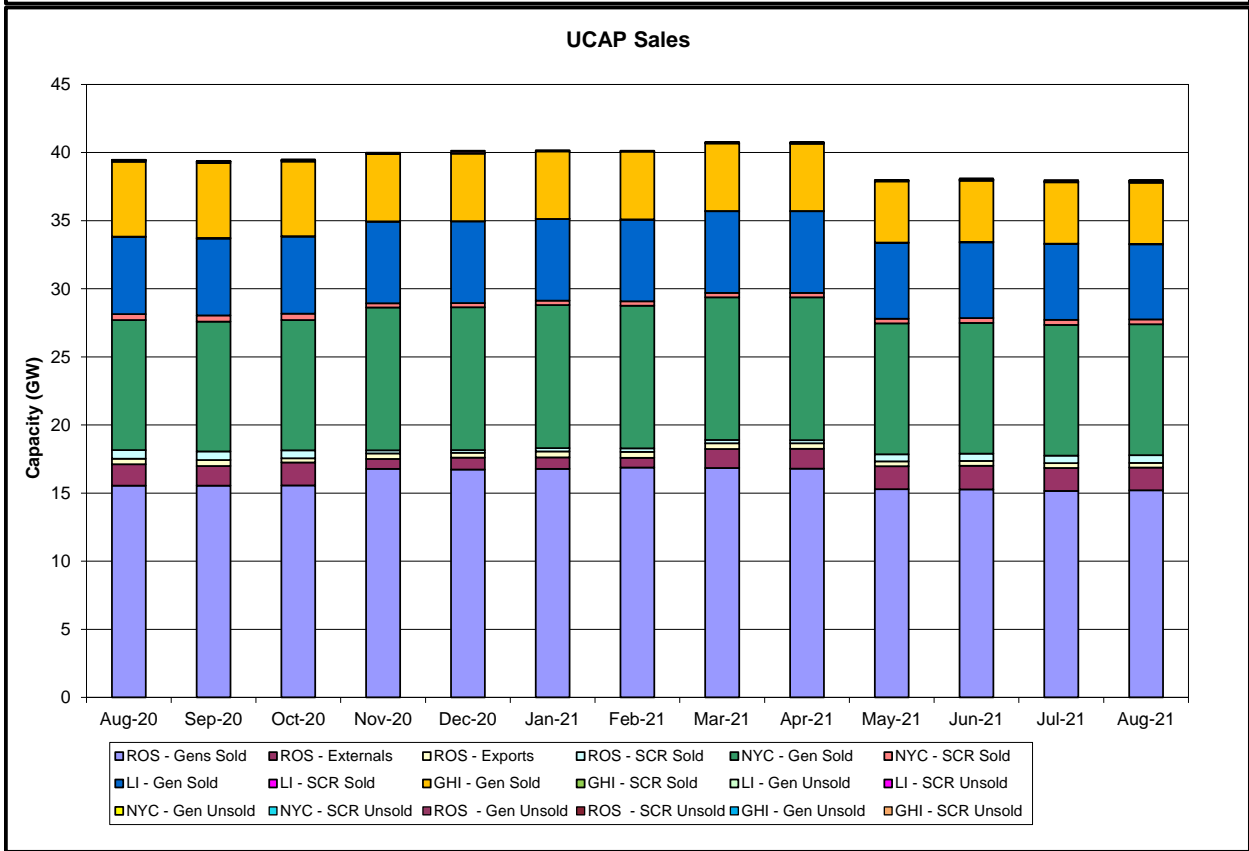
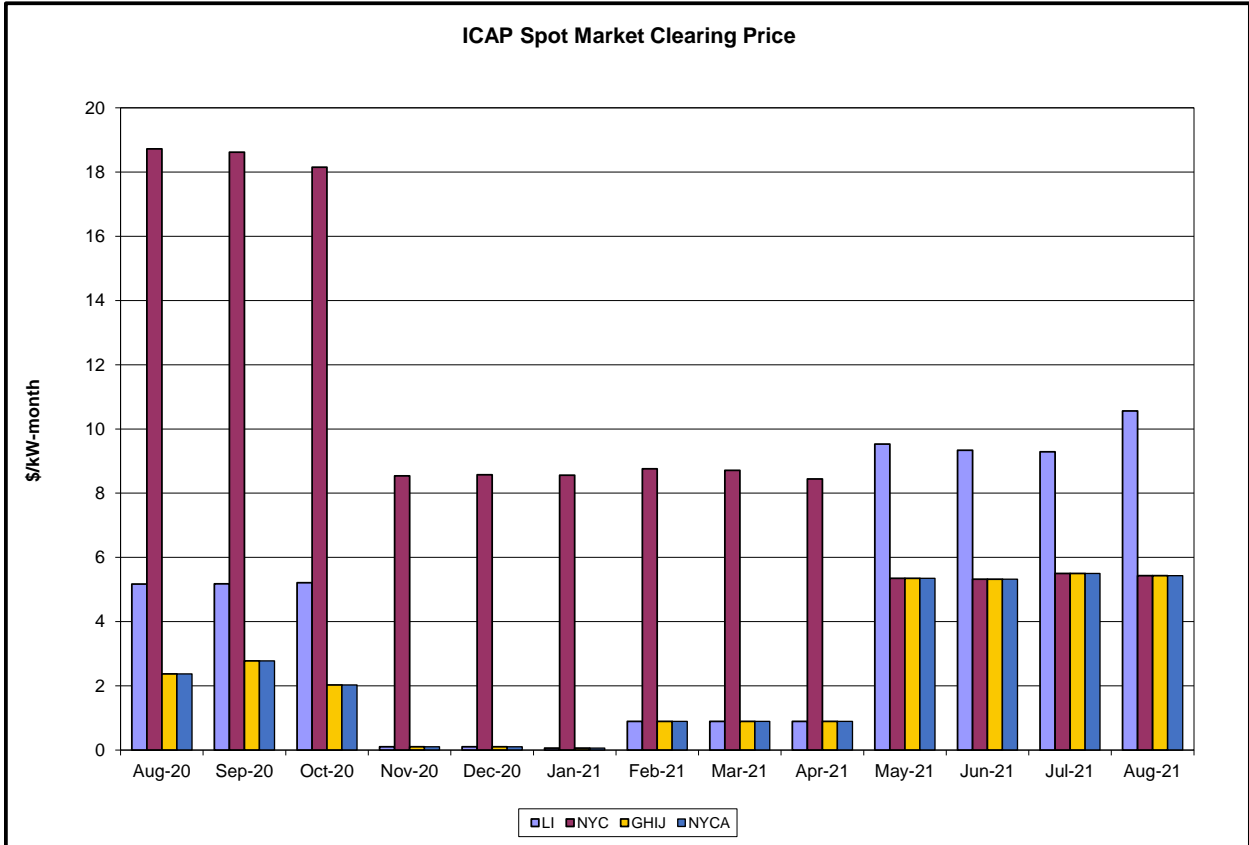










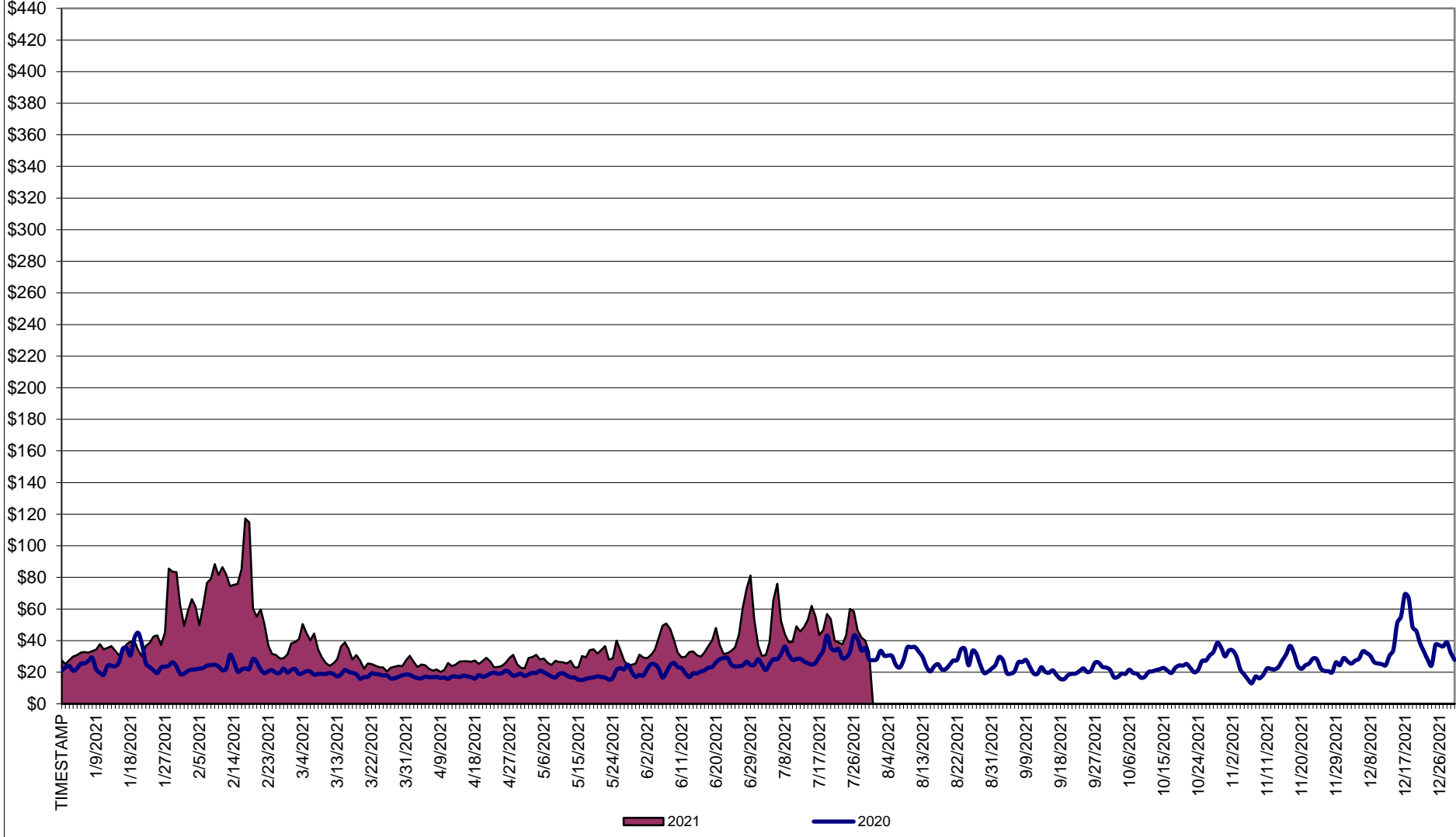


Market Performance Highlights

July 2021

- LBMP for July is \$45.16/MWh; higher than \$39.37/MWh in June 2021 and \$28.86/MWh in July 2020.
 - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are higher compared to June.
- July 2021 average year-to-date monthly cost of \$42.05/MWh is a 74% increase from \$24.11/MWh in July 2020.
- Average daily sendout is 483 GWh/day in July; higher than 458 GWh/day in June 2021 and lower than 530 GWh/day in July 2020.
- Natural gas prices and distillate prices are higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$3.32/MMBtu, up from \$2.61/MMBtu in June.
 - Natural gas prices are up 96.8% year-over-year.
 - Jet Kerosene Gulf Coast was \$14.01/MMBtu, up from \$13.71/MMBtu in June.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$15.23/MMBtu, up from \$15.12/MMBtu in June.
 - Distillate prices are up 73.6% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.09)/MWh; higher than (\$0.50)/MWh in June.
 - Local Reliability Share is \$0.30/MWh, higher than \$0.17/MWh in June.
 - Statewide Share is (\$0.39)/MWh, higher than (\$0.68)/MWh in June.
 - TSA \$ per NYC MWh is \$0.93/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than June.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*
2020 Annual Average \$25.70/MWh
July 2020 YTD Average \$24.11/MWh
July 2021 YTD Average \$42.05/MWh



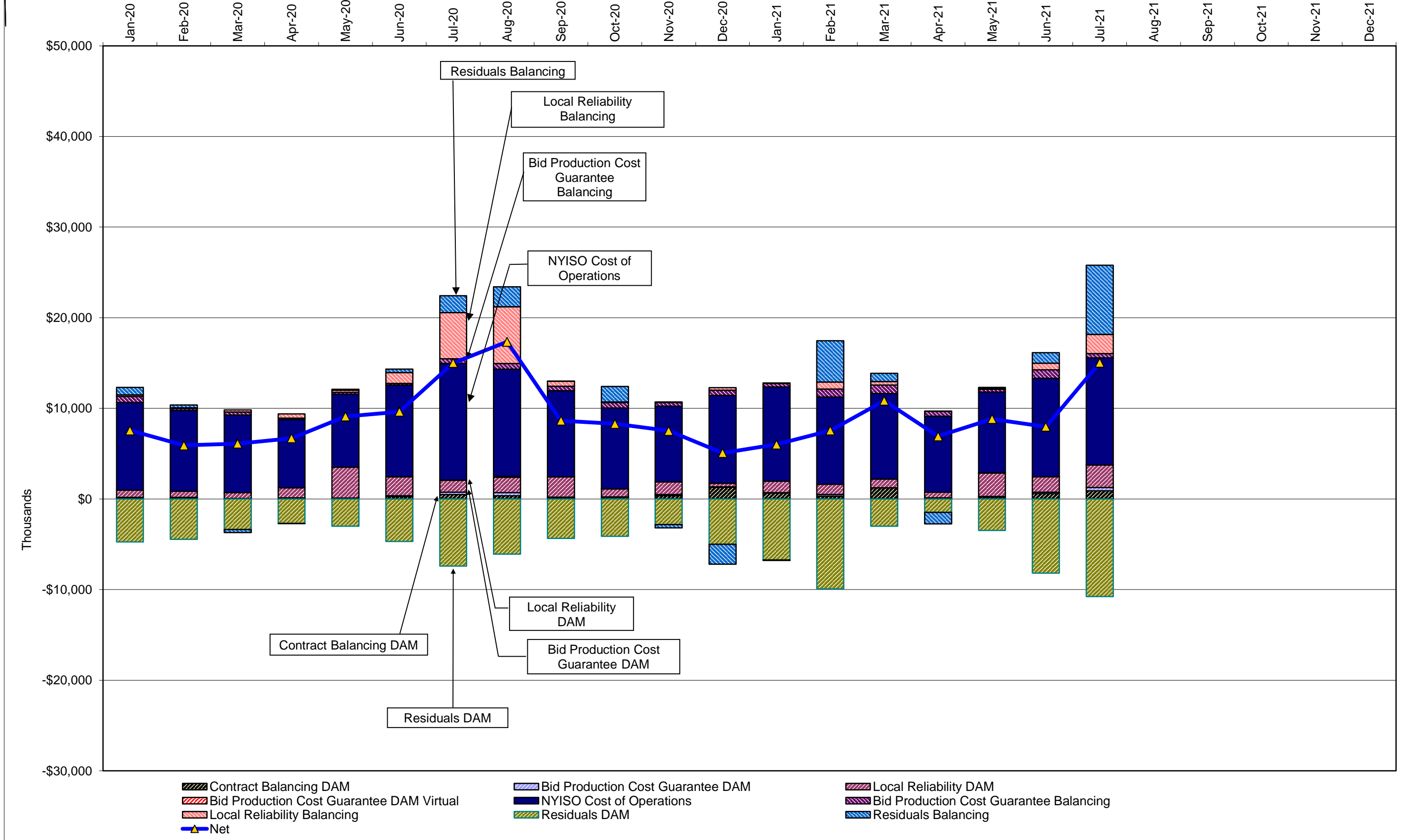
* Excludes ICAP payments.

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

2021	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	37.83	63.70	28.59	22.79	25.72	39.37	45.16					
NTAC	1.35	1.20	1.26	1.54	2.09	2.05	2.01					
Reserve	0.49	0.81	0.57	0.56	0.54	0.45	0.44					
Regulation	0.07	0.13	0.09	0.10	0.08	0.07	0.06					
NYISO Cost of Operations	0.74	0.74	0.74	0.74	0.76	0.76	0.76					
FERC Fee Recovery	0.08	0.09	0.09	0.11	0.10	0.08	0.07					
Uplift	(0.31)	(0.15)	0.11	(0.12)	(0.19)	(0.50)	(0.09)					
Uplift: Local Reliability Share	0.09	0.15	0.11	0.06	0.22	0.17	0.30					
Uplift: Statewide Share	(0.40)	(0.30)	0.00	(0.18)	(0.41)	(0.68)	(0.39)					
Voltage Support and Black Start	0.43	0.43	0.43	0.44	0.44	0.44	0.44					
Avg Monthly Cost	40.61	66.87	31.81	26.06	29.45	42.65	48.79					
Avg YTD Cost	40.69	52.99	46.57	42.41	40.10	40.59	42.05					
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.52	0.90	0.93					
2020	<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
Avg Monthly Cost	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: 8/10/2021 10:04 AM

NYISO Dollar Flows - Uplift - OATT Schedule 1 components - Data through July 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>
Day Ahead Market MWh	14,108,848	13,325,329	12,843,278	11,204,262	11,854,214	14,120,662	15,843,724					
DAM LSE Internal LBMP Energy Sales	60%	59%	56%	55%	56%	61%	65%					
DAM External TC LBMP Energy Sales	5%	4%	3%	2%	2%	3%	2%					
DAM Bilateral - Internal Bilaterals	31%	30%	32%	35%	35%	29%	27%					
DAM Bilateral - Import/Non-LBMP Market Bilaterals	1%	4%	4%	5%	4%	4%	3%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%	1%					
DAM Bilateral - Wheel Through Bilaterals	2%	2%	3%	2%	2%	2%	2%					
Balancing Energy Market MWh	29,179	-308,157	-70,279	30,603	-36,350	247,874	-367,232					
Balancing Energy LSE Internal LBMP Energy Sales	-215%	-151%	-367%	-456%	-398%	53%	-135%					
Balancing Energy External TC LBMP Energy Sales	374%	59%	365%	578%	440%	60%	41%					
Balancing Energy Bilateral - Internal Bilaterals	49%	4%	27%	34%	0%	-1%	3%					
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	50%	5%	32%	34%	21%	5%	3%					
Balancing Energy Bilateral - Wheel Through Bilaterals	-158%	-17%	-158%	-90%	-163%	-17%	-11%					
Transactions Summary												
LBMP	65%	62%	59%	57%	58%	65%	66%					
Internal Bilaterals	31%	31%	33%	35%	35%	29%	28%					
Import Bilaterals	1%	4%	4%	5%	4%	3%	3%					
Export Bilaterals	2%	2%	2%	2%	2%	2%	1%					
Wheels Through	2%	2%	2%	2%	2%	1%	1%					
Market Share of Total Load												
Day Ahead Market	99.8%	102.4%	100.6%	99.7%	100.3%	98.3%	102.4%					
Balancing Energy +	0.2%	-2.4%	-0.6%	0.3%	-0.3%	1.7%	-2.4%					
Total MWh	14,138,027	13,017,172	12,772,999	11,234,865	11,817,864	14,368,536	15,476,492					
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458	483					

<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>
Day Ahead Market MWh	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%
Balancing Energy Market MWh	-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%
Transactions Summary												
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%
Market Share of Total Load												
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>
<u>DAY AHEAD LBMP</u>												
Price *	\$34.37	\$57.30	\$27.47	\$20.46	\$22.95	\$33.36	\$40.38					
Standard Deviation	\$14.58	\$24.48	\$8.23	\$4.58	\$6.28	\$15.88	\$15.56					
Load Weighted Price **	\$35.31	\$58.67	\$28.12	\$20.81	\$23.75	\$36.28	\$42.84					
<u>RTC LBMP</u>												
Price *	\$34.32	\$49.25	\$25.59	\$21.30	\$25.36	\$39.69	\$42.25					
Standard Deviation	\$20.93	\$23.34	\$12.67	\$7.91	\$11.17	\$34.08	\$47.97					
Load Weighted Price **	\$35.40	\$50.48	\$26.37	\$21.67	\$26.50	\$44.41	\$45.27					
<u>REAL TIME LBMP</u>												
Price *	\$34.59	\$48.22	\$28.06	\$21.10	\$24.62	\$36.58	\$39.61					
Standard Deviation	\$29.47	\$26.46	\$26.13	\$10.07	\$10.91	\$25.43	\$26.73					
Load Weighted Price **	\$35.89	\$49.57	\$29.33	\$21.55	\$25.78	\$40.76	\$42.20					
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458	483					

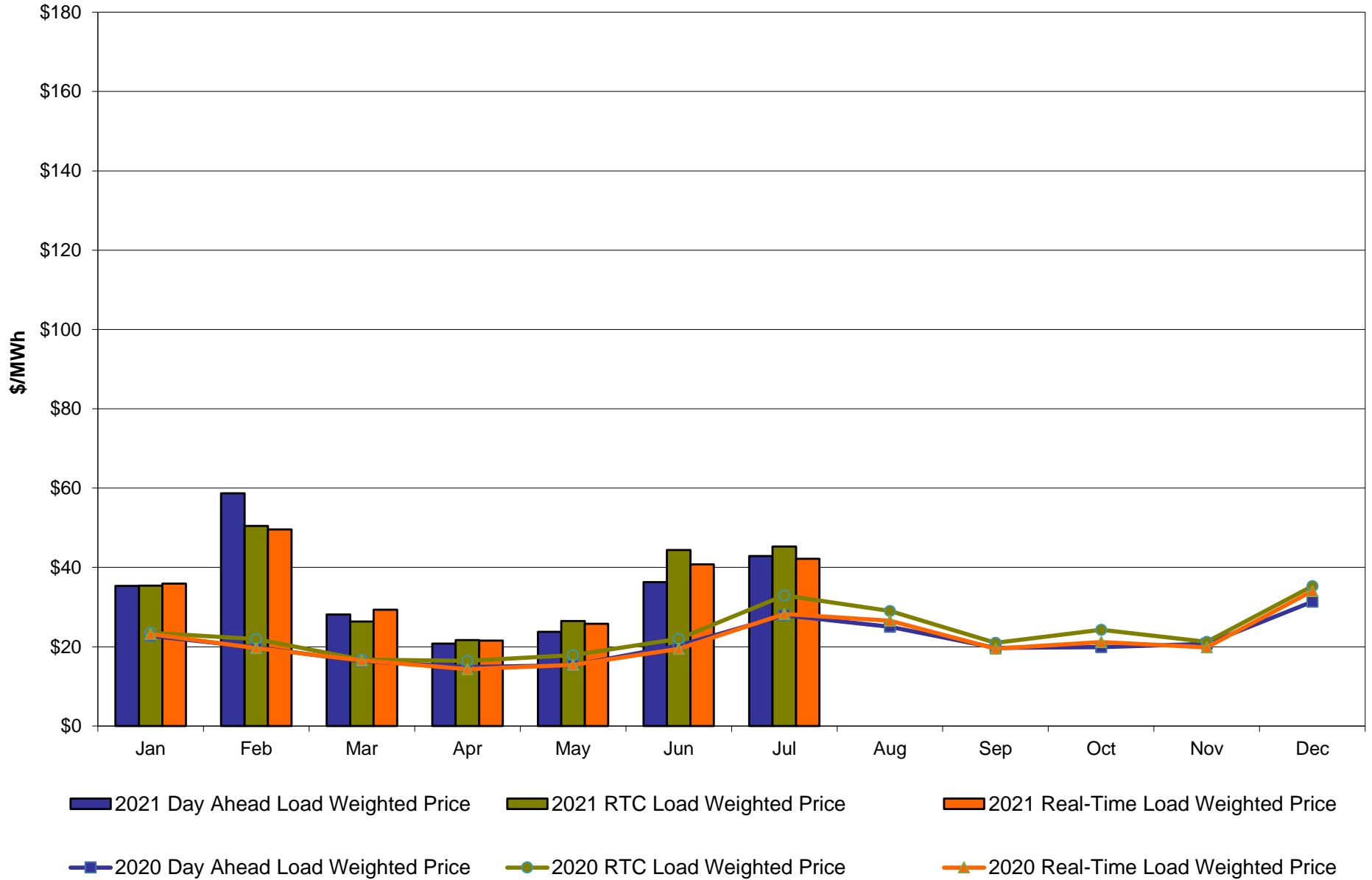
NYISO Markets 2020 Energy Statistics

	<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>
<u>DAY AHEAD LBMP</u>												
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
<u>RTC LBMP</u>												
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
<u>REAL TIME LBMP</u>												
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

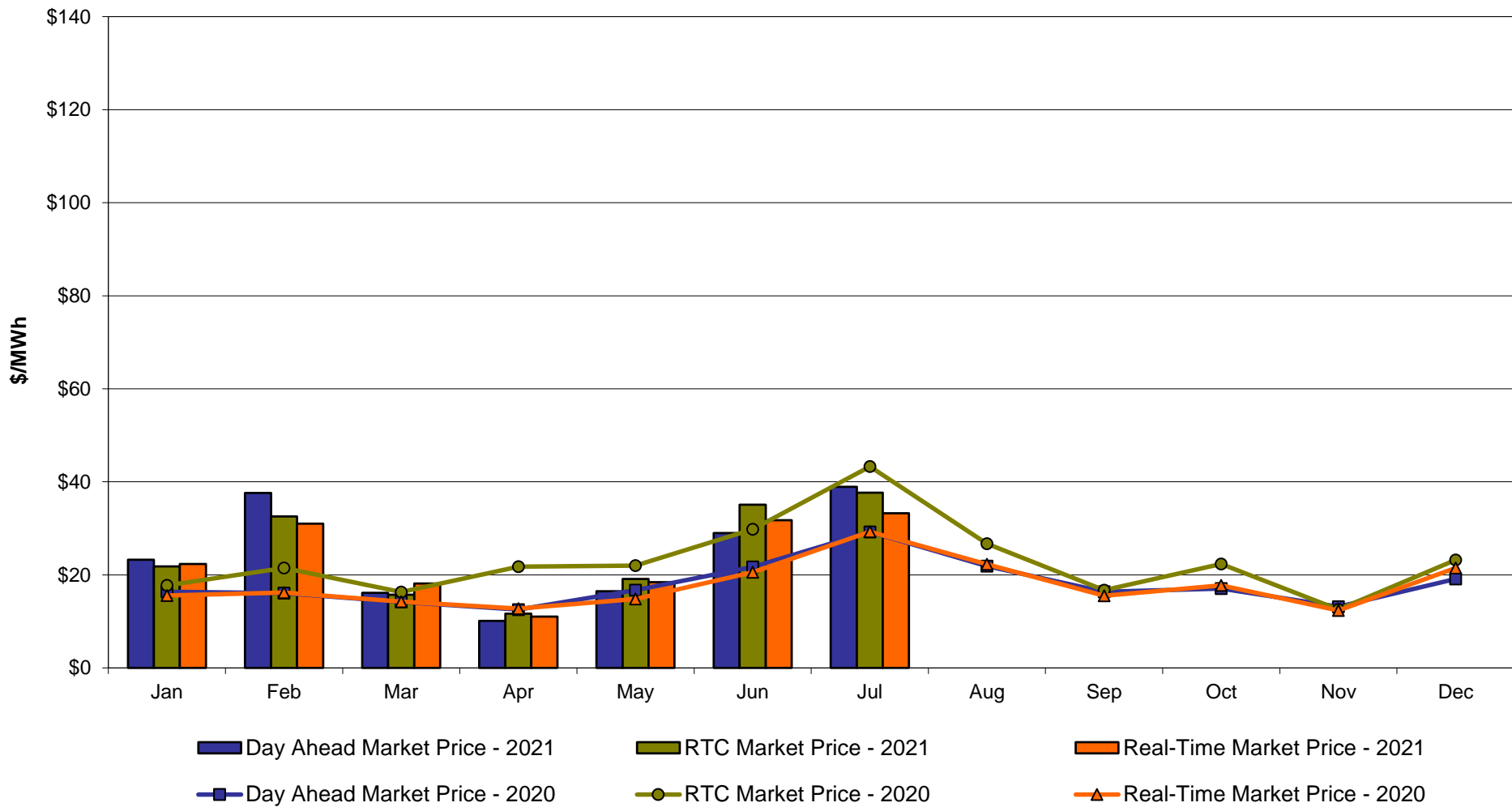


July 2021 Zonal LBMP Statistics for NYISO (\$/MWh)

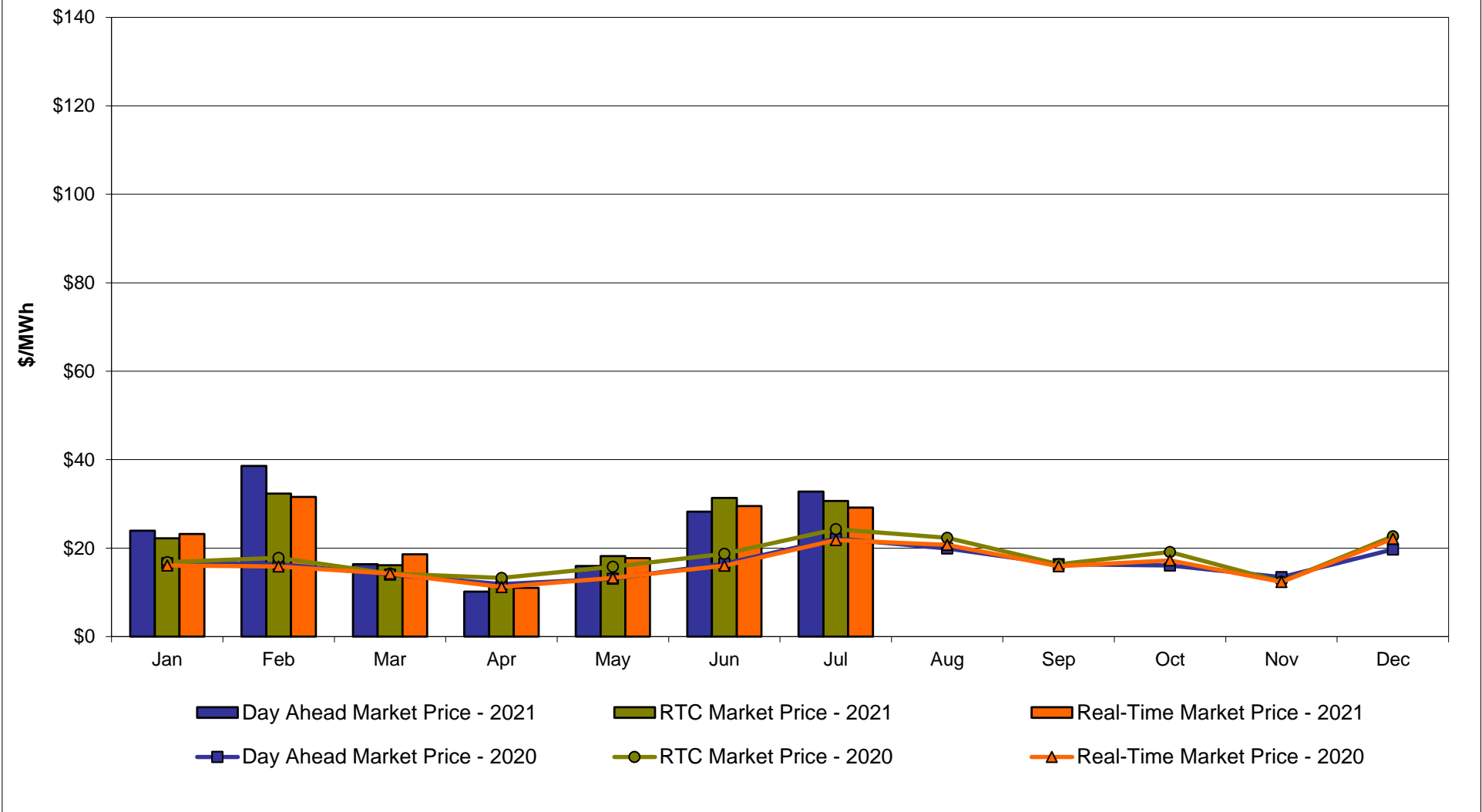
	<u>WEST Zone A</u>	<u>GENESEE Zone B</u>	<u>NORTH Zone D</u>	<u>CENTRAL Zone C</u>	<u>MOHAWK VALLEY Zone E</u>	<u>CAPITAL Zone F</u>	<u>HUDSON VALLEY Zone G</u>	<u>MILLWOOD Zone H</u>	<u>DUNWOODIE Zone I</u>	<u>NEW YORK CITY Zone J</u>	<u>LONG ISLAND Zone K</u>
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	38.91	31.34	22.29	32.81	32.92	38.69	38.88	40.29	40.25	42.00	51.28
Standard Deviation	24.27	10.89	10.32	12.05	11.53	11.28	11.73	13.80	13.38	14.33	27.91
<u>RTC LBMP</u>											
Unweighted Price *	37.66	29.39	24.59	30.68	30.82	37.21	36.88	44.72	42.36	44.45	59.90
Standard Deviation	29.12	12.24	21.77	13.05	13.17	15.20	17.74	78.08	67.43	72.73	88.05
<u>REAL TIME LBMP</u>											
Unweighted Price *	33.27	28.57	23.16	29.18	29.42	35.50	35.78	42.82	40.32	42.94	53.21
Standard Deviation	24.12	11.93	26.33	12.52	13.29	12.94	17.74	54.48	34.13	34.09	54.64
	<u>ONTARIO IESO Zone O</u>	<u>HYDRO QUEBEC (Wheel) Zone M</u>	<u>HYDRO QUEBEC (Import/Export) Zone M</u>	<u>PJM Zone P</u>	<u>NEW ENGLAND Zone N</u>	<u>CROSS SOUND CABLE Controllable Line</u>	<u>NORTHPORT- NORWALK Controllable Line</u>	<u>NEPTUNE Controllable Line</u>	<u>LINDEN VFT Controllable Line</u>	<u>HUDSON Controllable Line</u>	<u>Dennison Controllable Line</u>
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	28.58	28.26	28.26	36.89	38.10	52.24	40.08	45.66	40.16	40.73	22.22
Standard Deviation	8.03	9.91	9.91	13.06	11.41	31.55	10.40	16.03	12.03	13.36	10.02
<u>RTC LBMP</u>											
Unweighted Price *	25.90	26.79	26.79	34.65	35.60	61.87	49.37	52.56	41.07	43.21	22.12
Standard Deviation	9.49	13.39	13.39	12.51	13.08	91.36	79.20	80.33	27.03	71.63	54.16
<u>REAL TIME LBMP</u>											
Unweighted Price *	24.57	25.92	25.92	33.21	34.35	54.45	40.80	46.81	41.27	41.45	21.01
Standard Deviation	39.16	13.79	13.79	14.37	19.15	58.61	52.24	47.57	30.65	33.78	44.88

* Straight LBMP averages

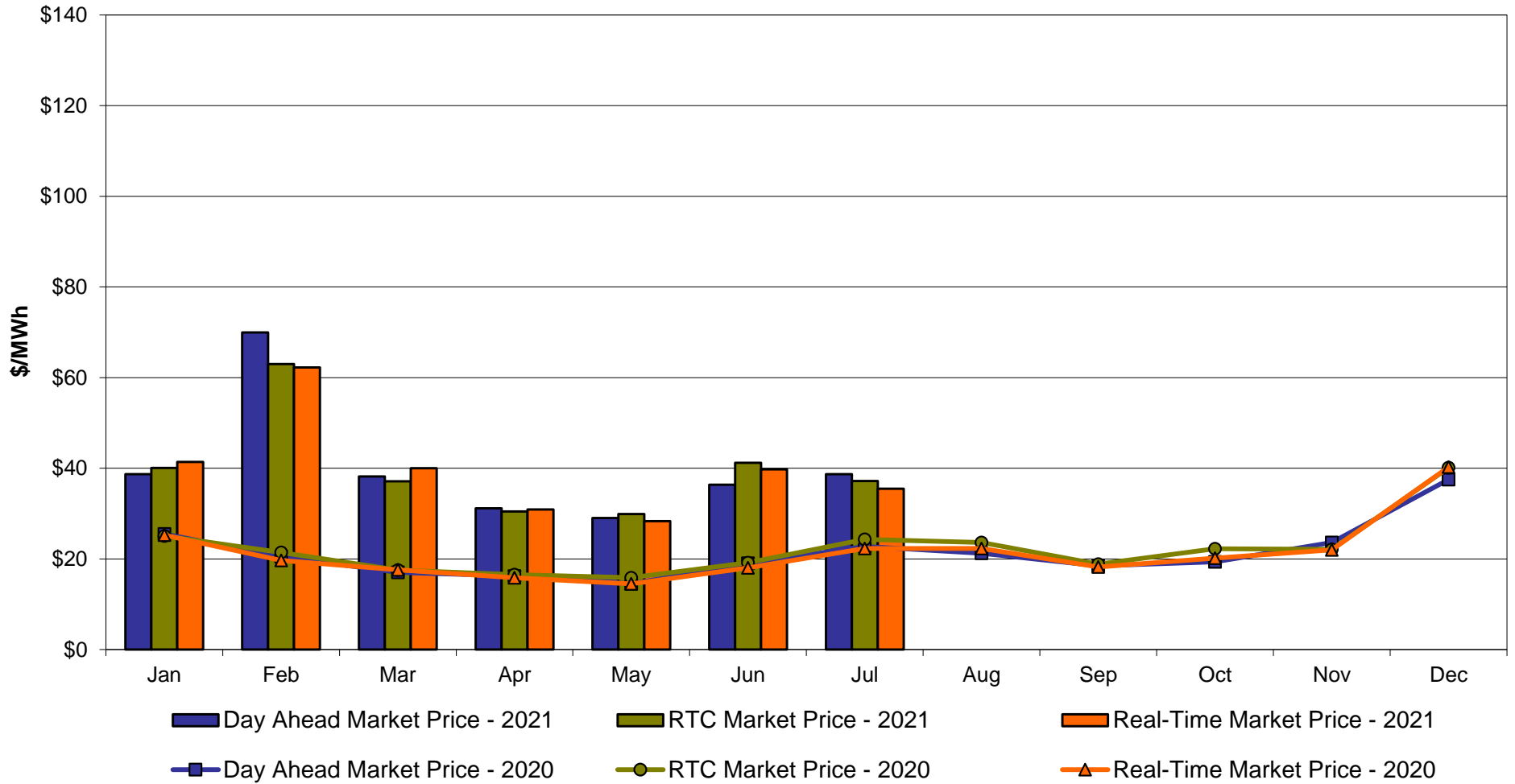
West Zone A
Monthly Average LBMP Prices 2020 - 2021



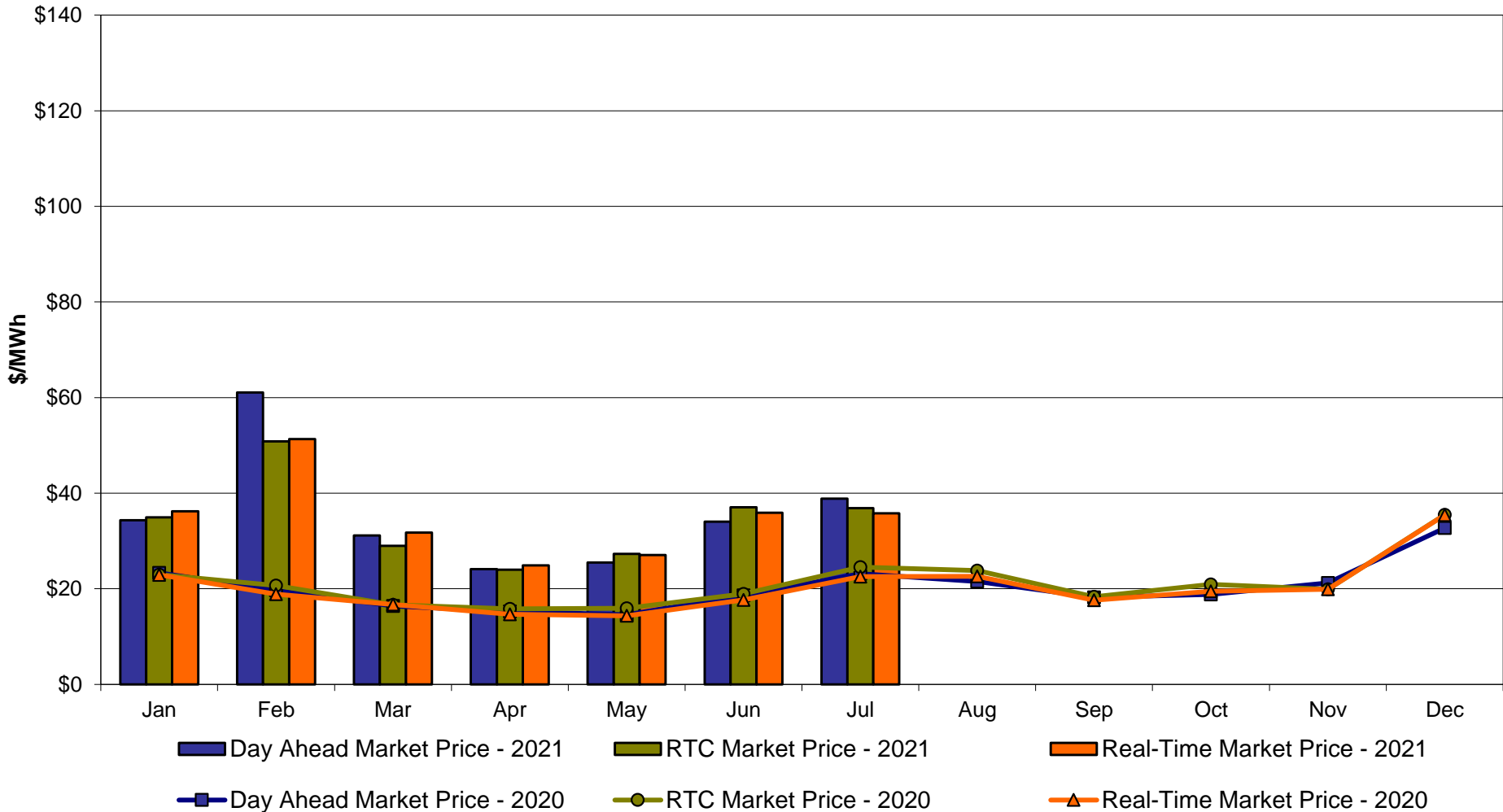
**Central Zone C
Monthly Average LBMP Prices 2020 - 2021**



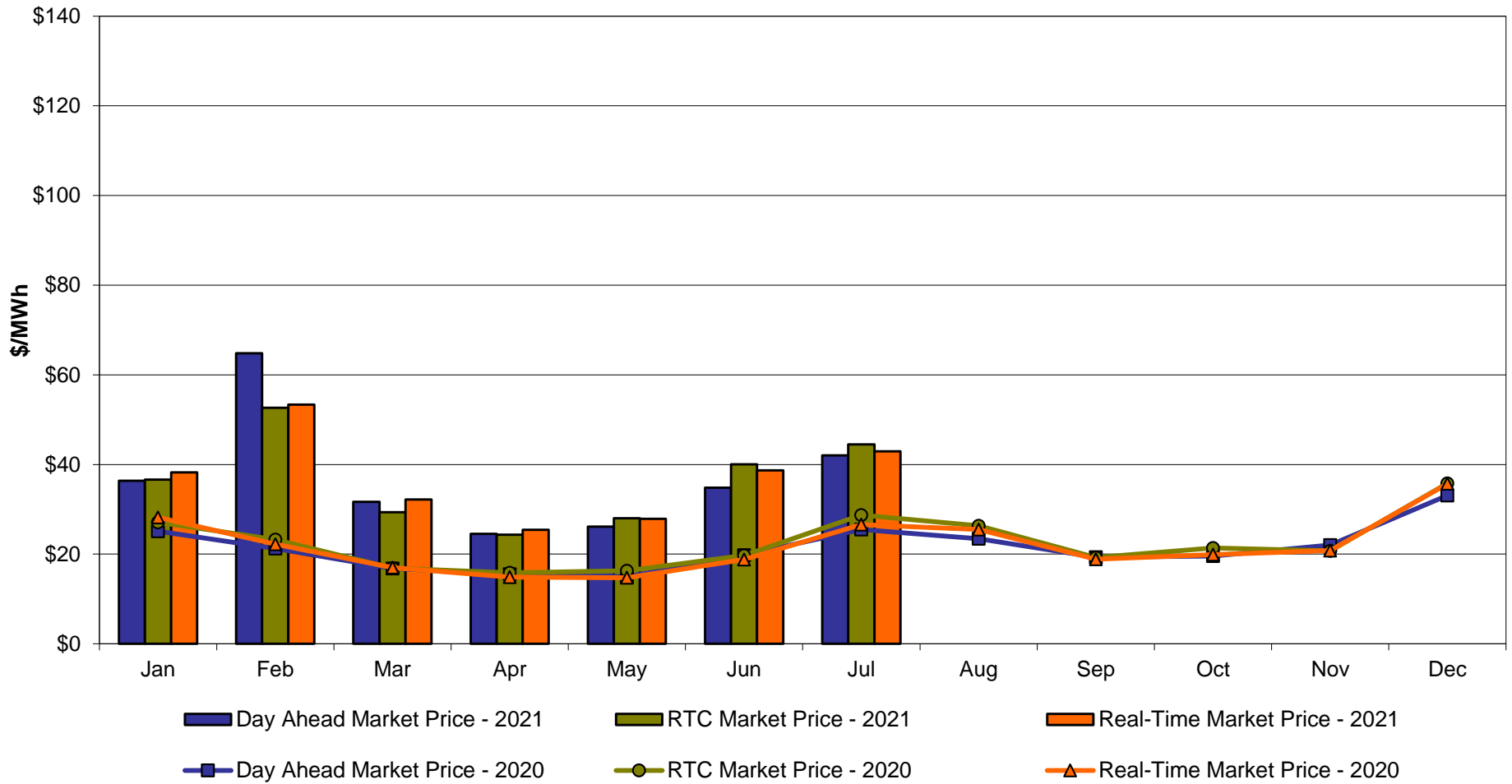
Capital Zone F Monthly Average LBMP Prices 2020 - 2021



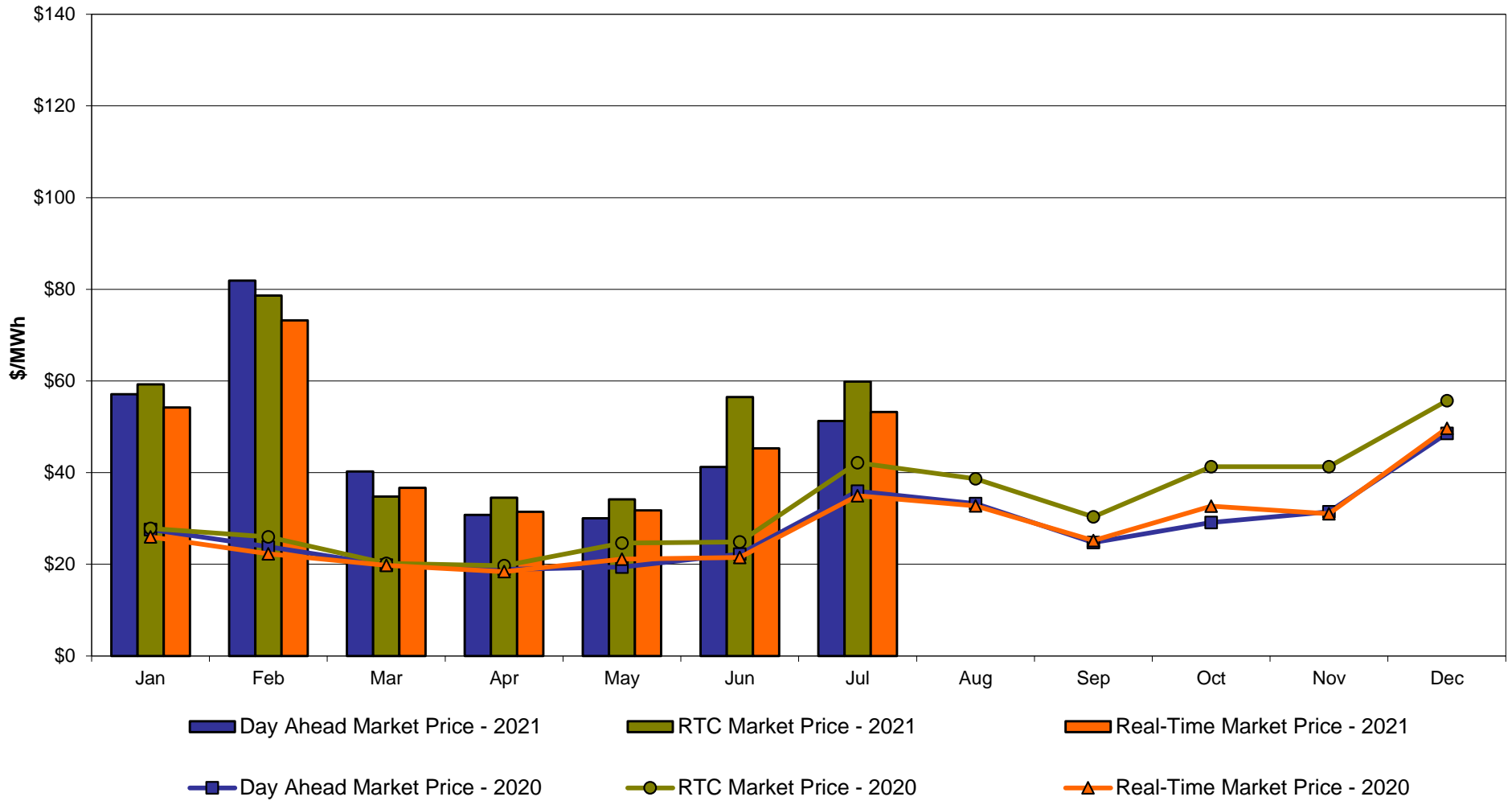
Hudson Valley Zone G Monthly Average LBMP Prices 2020 - 2021



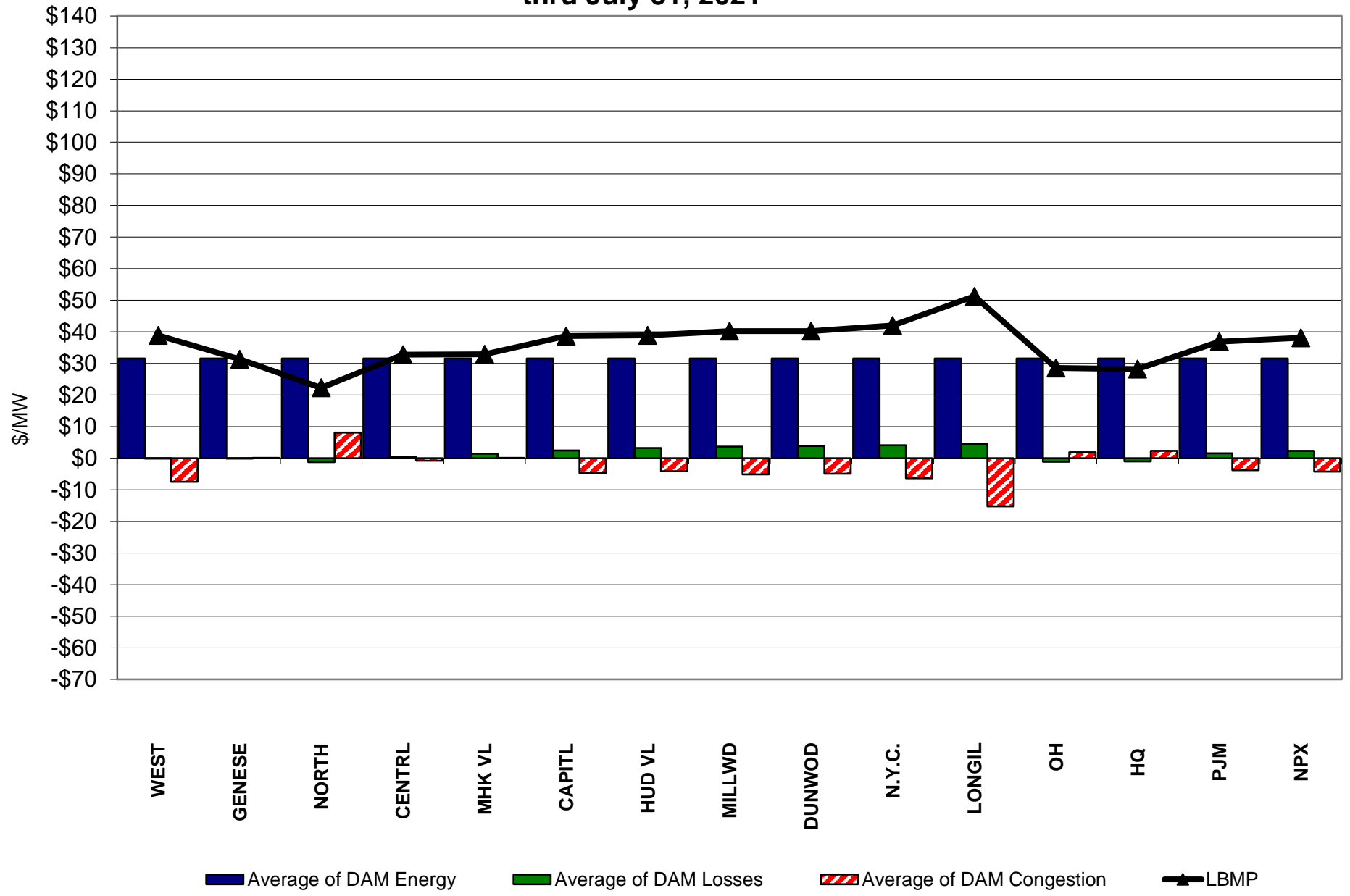
NYC Zone J Monthly Average LBMP Prices 2020 - 2021



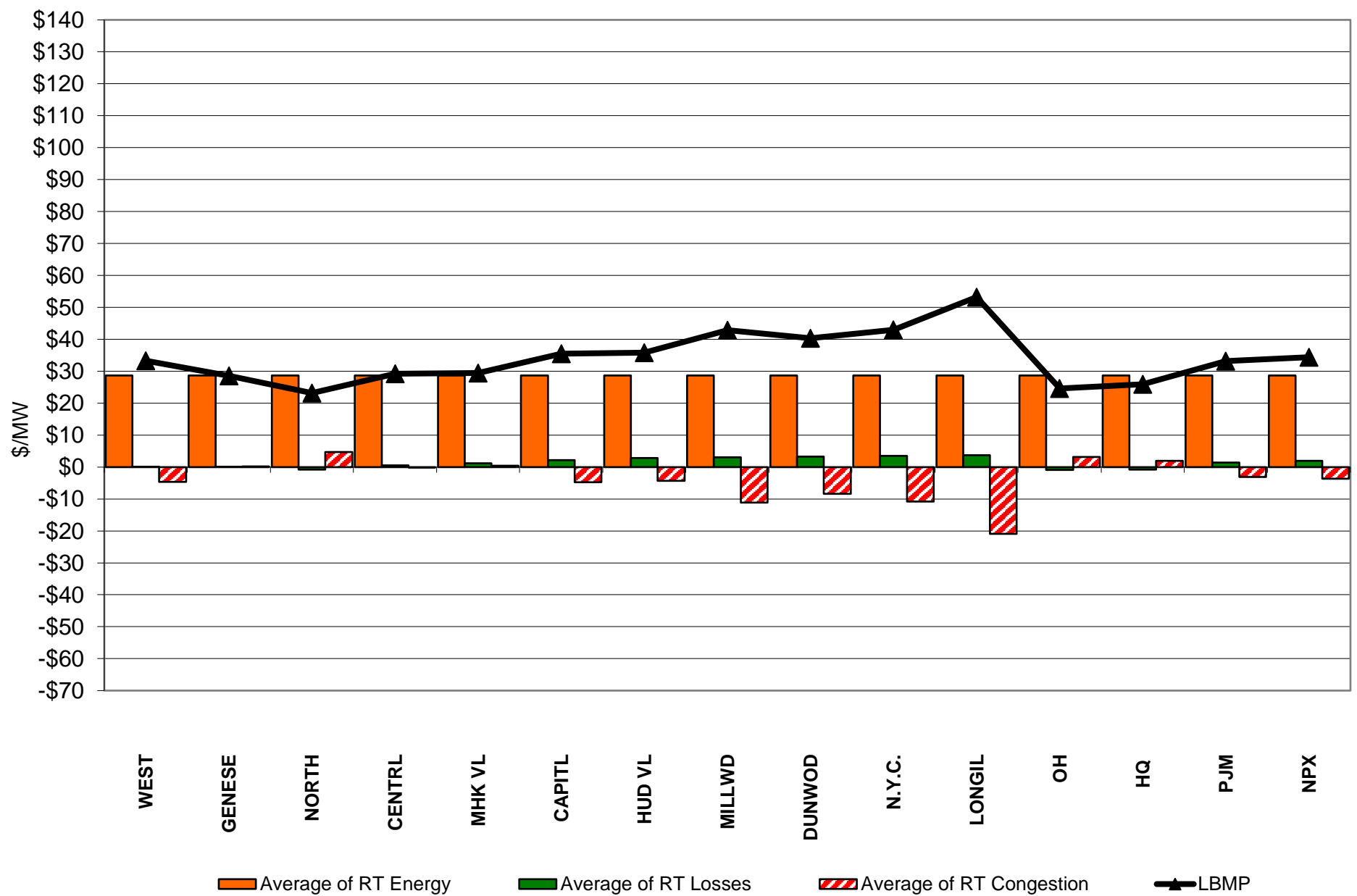
Long Island Zone K Monthly Average LBMP Prices 2020 - 2021



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

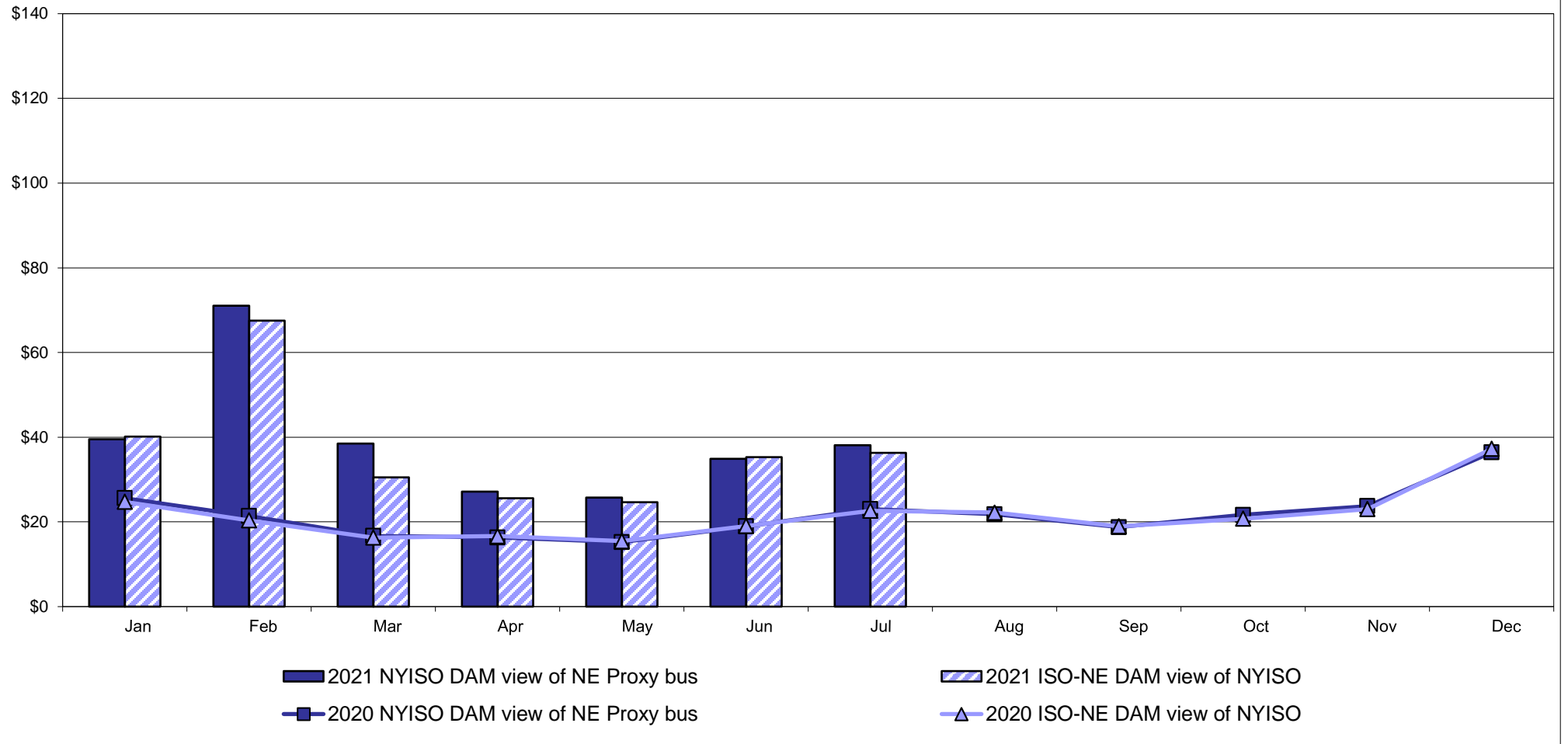


**RT Zonal Unweighted Monthly Average LBMP Components
thru July 31, 2021**

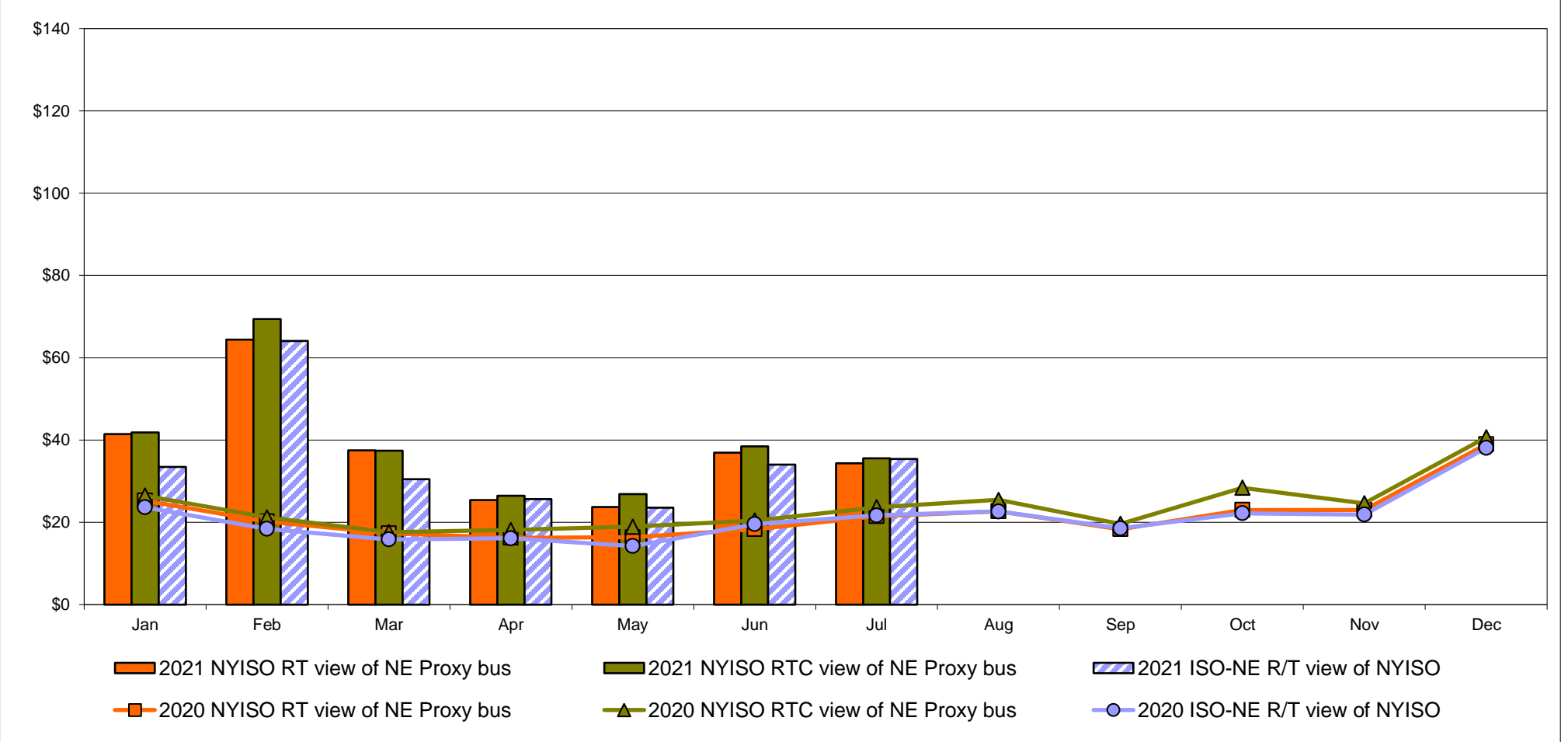


External Comparison ISO-New England

Day Ahead Market External Zone Comparison: ISO-NE (\$/MWh)

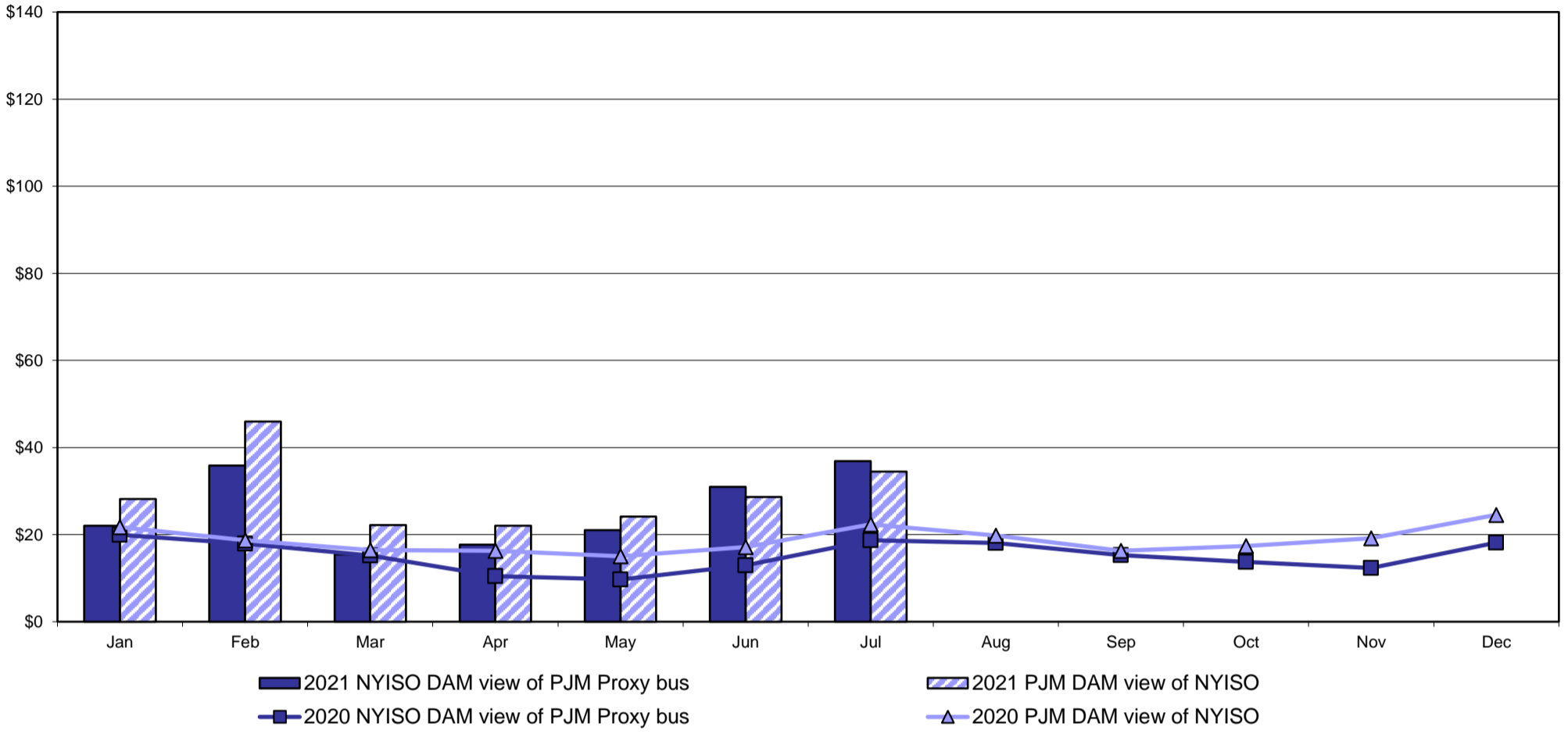


Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

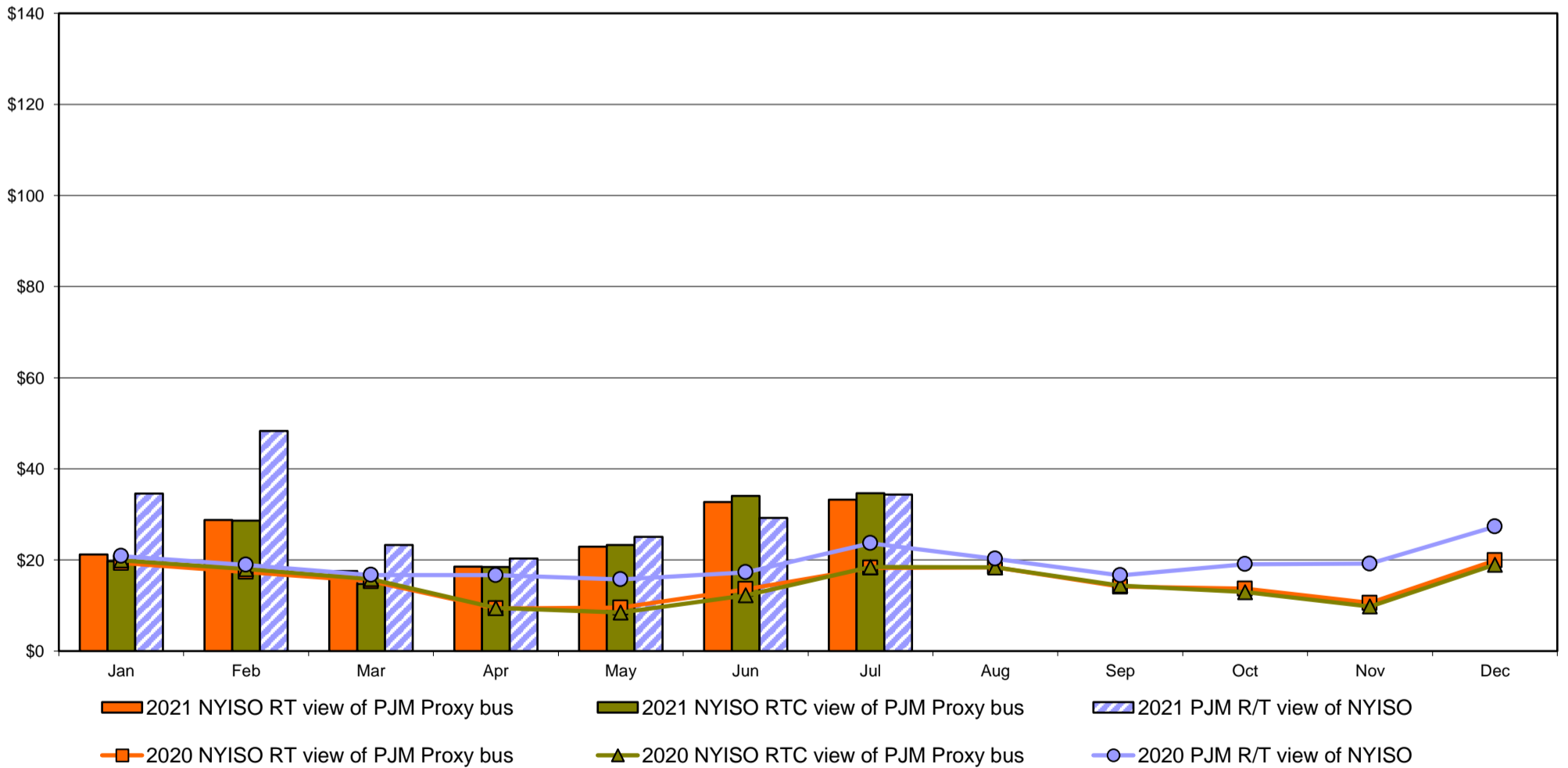


External Comparison PJM

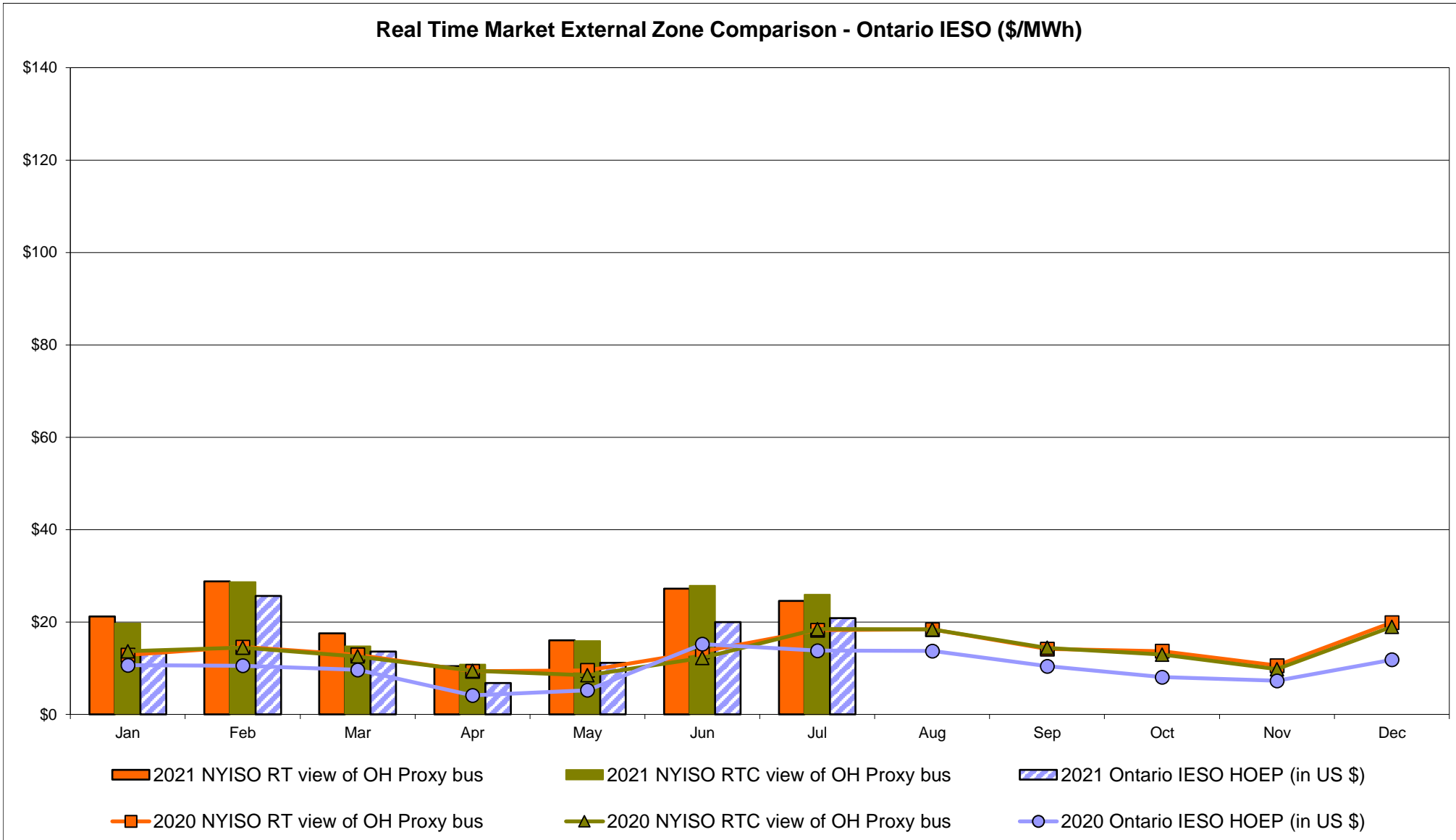
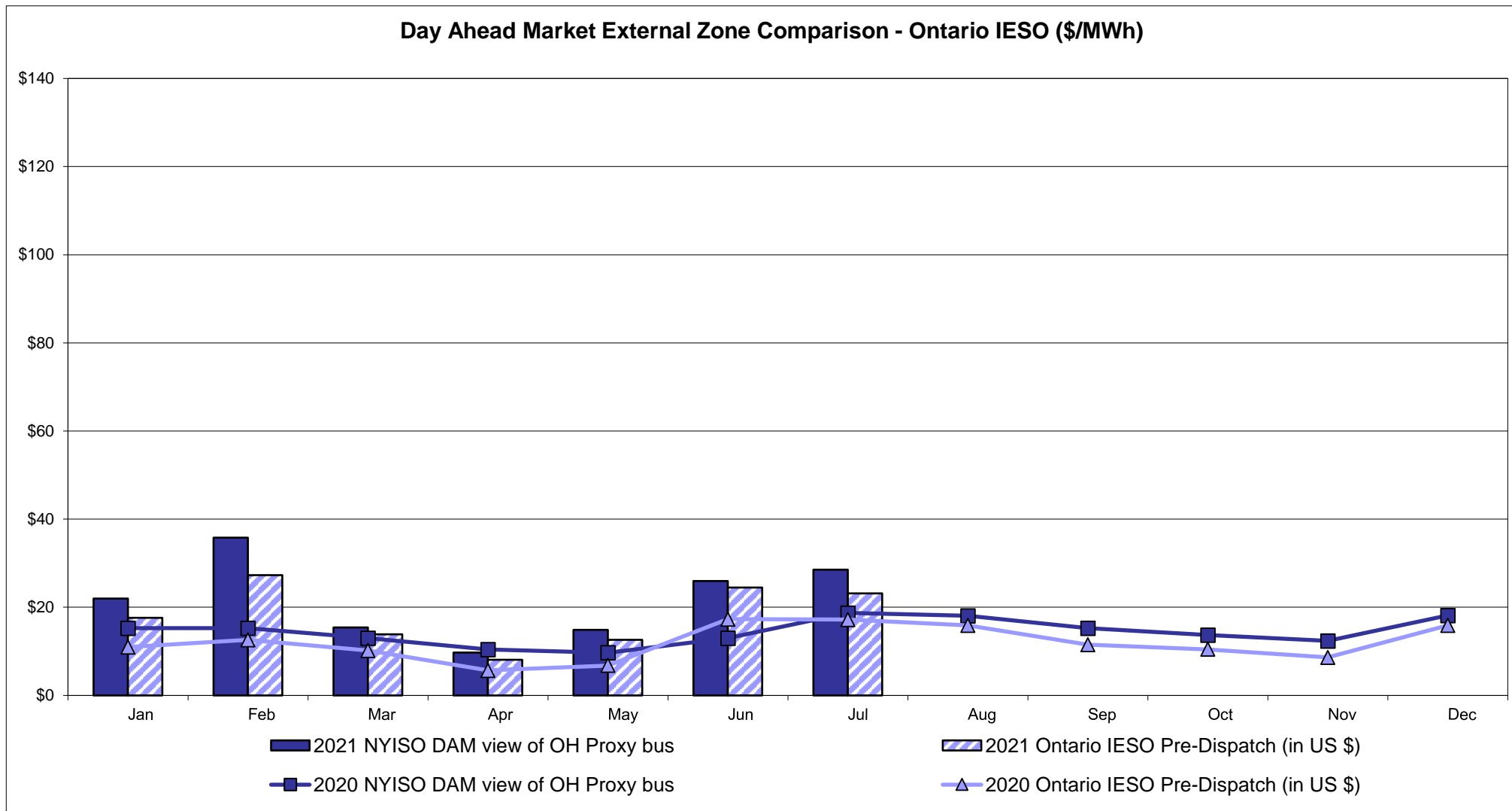
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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

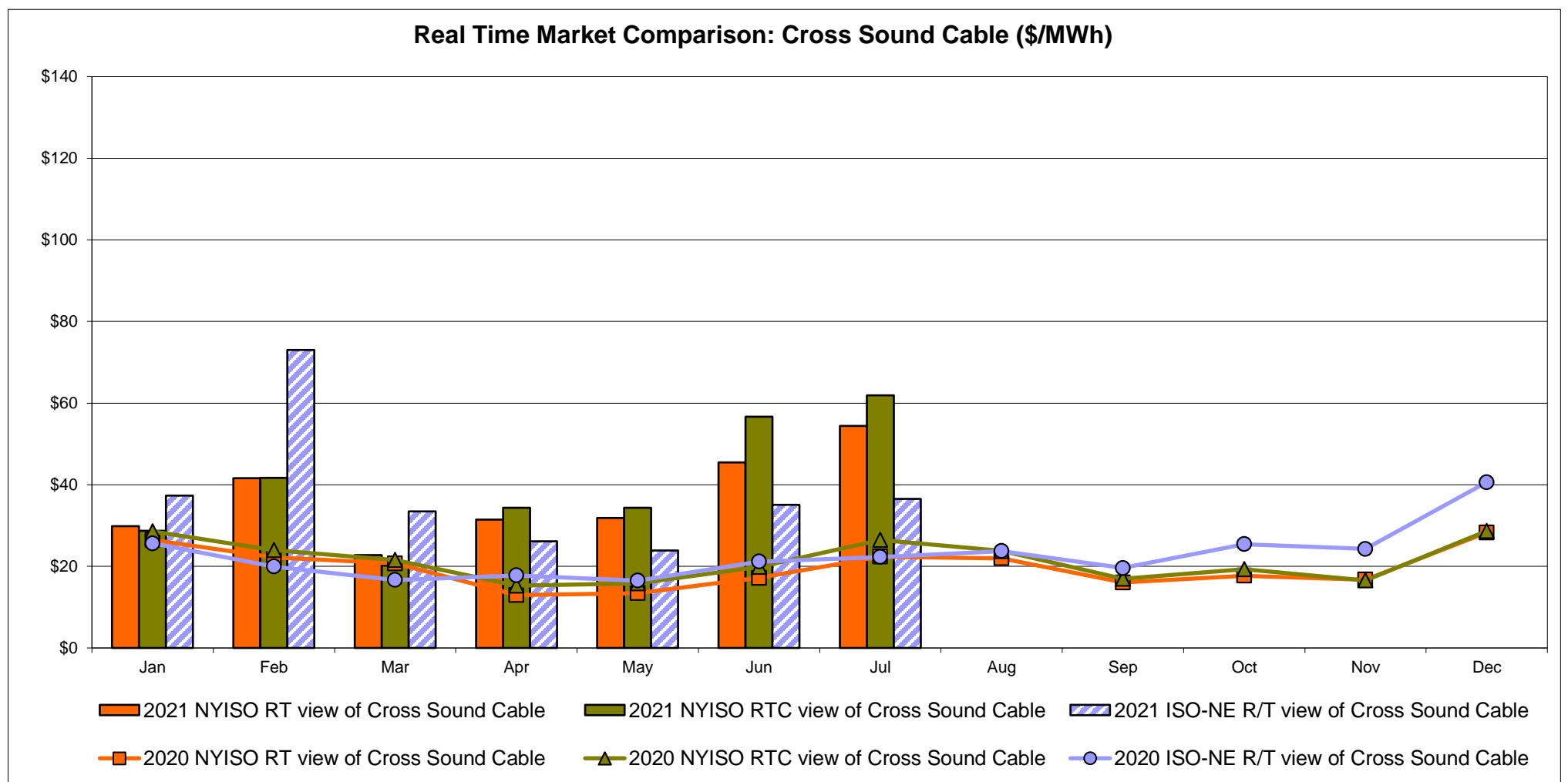
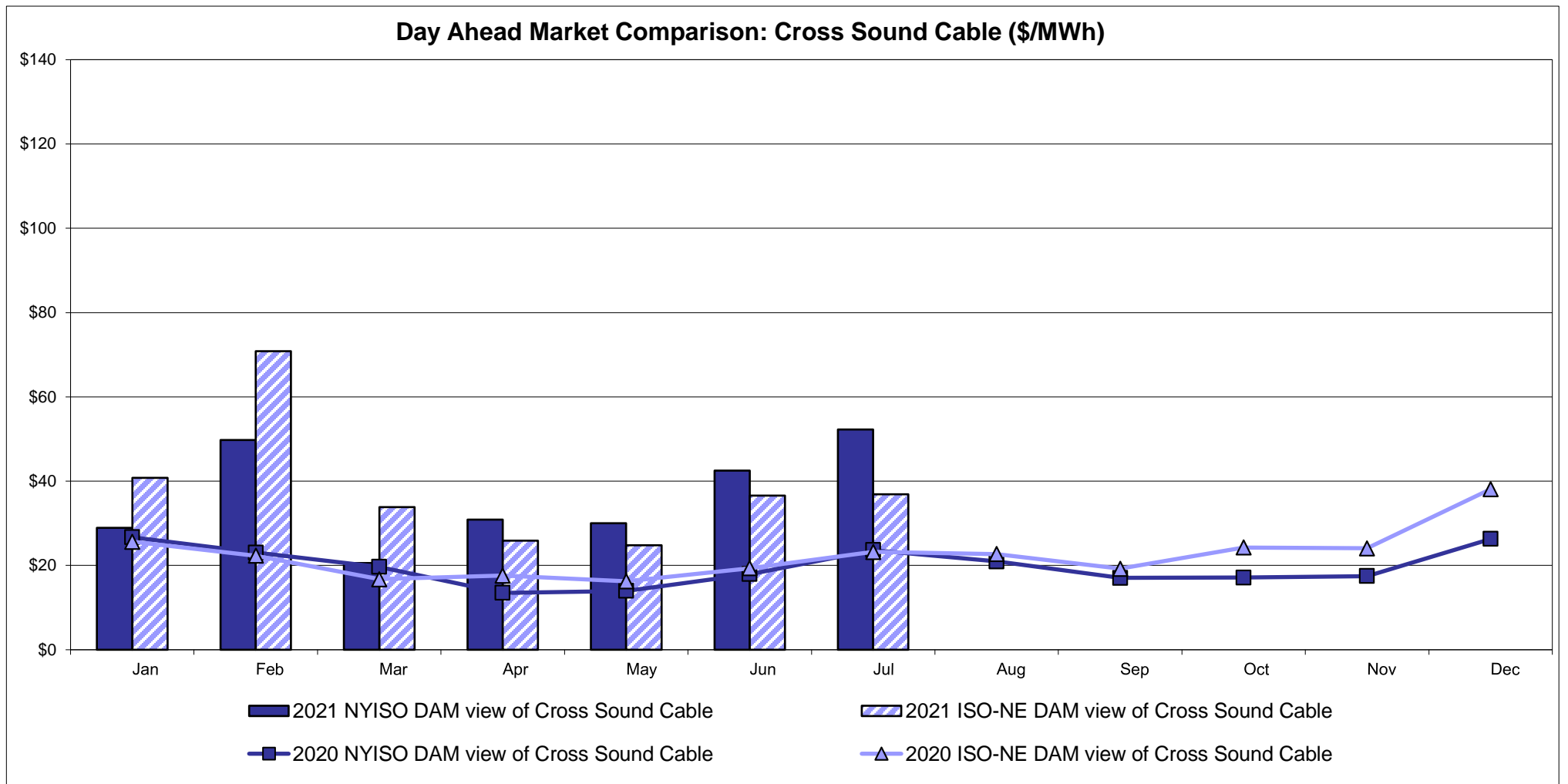


External Comparison Ontario IESO



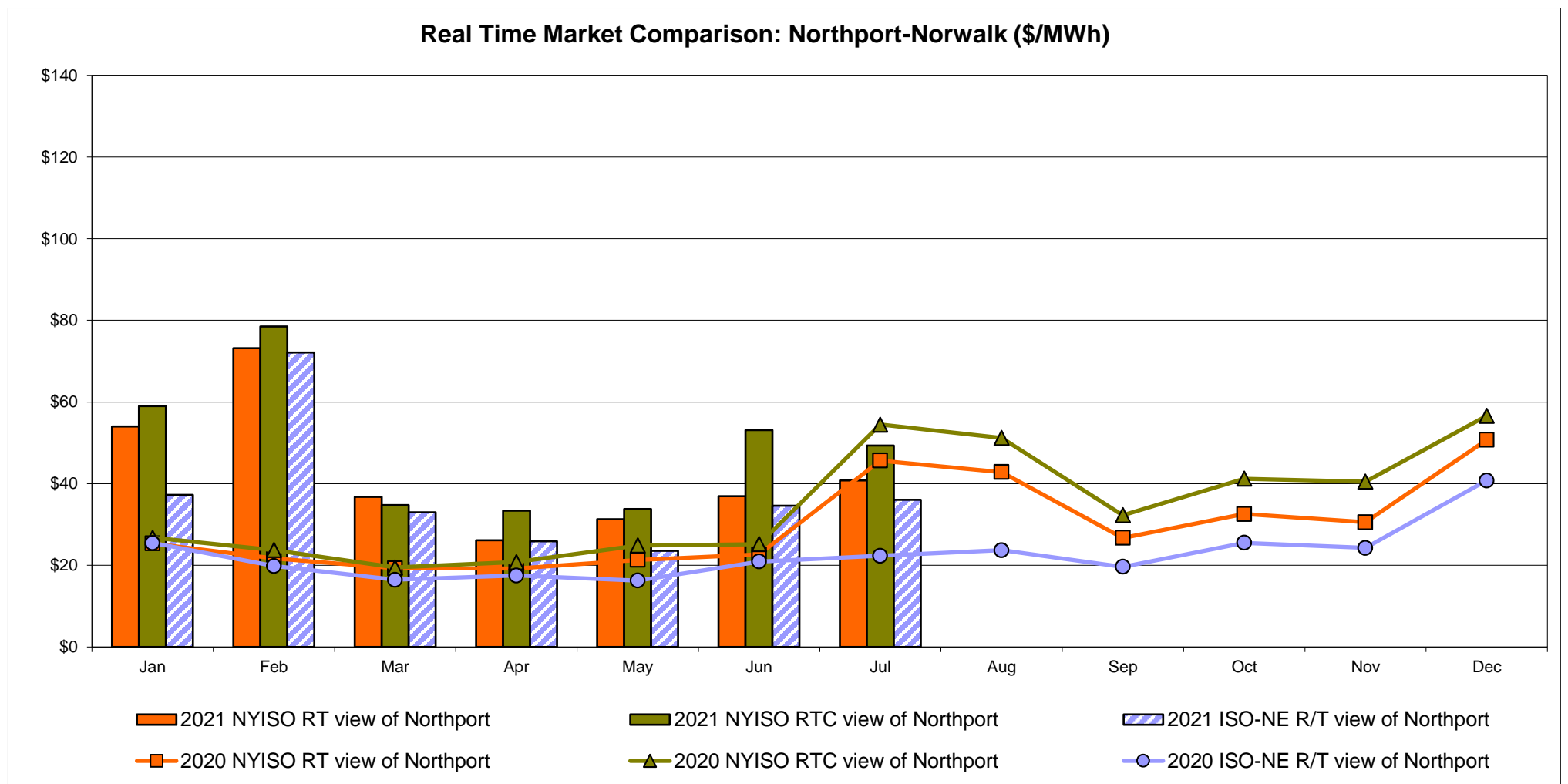
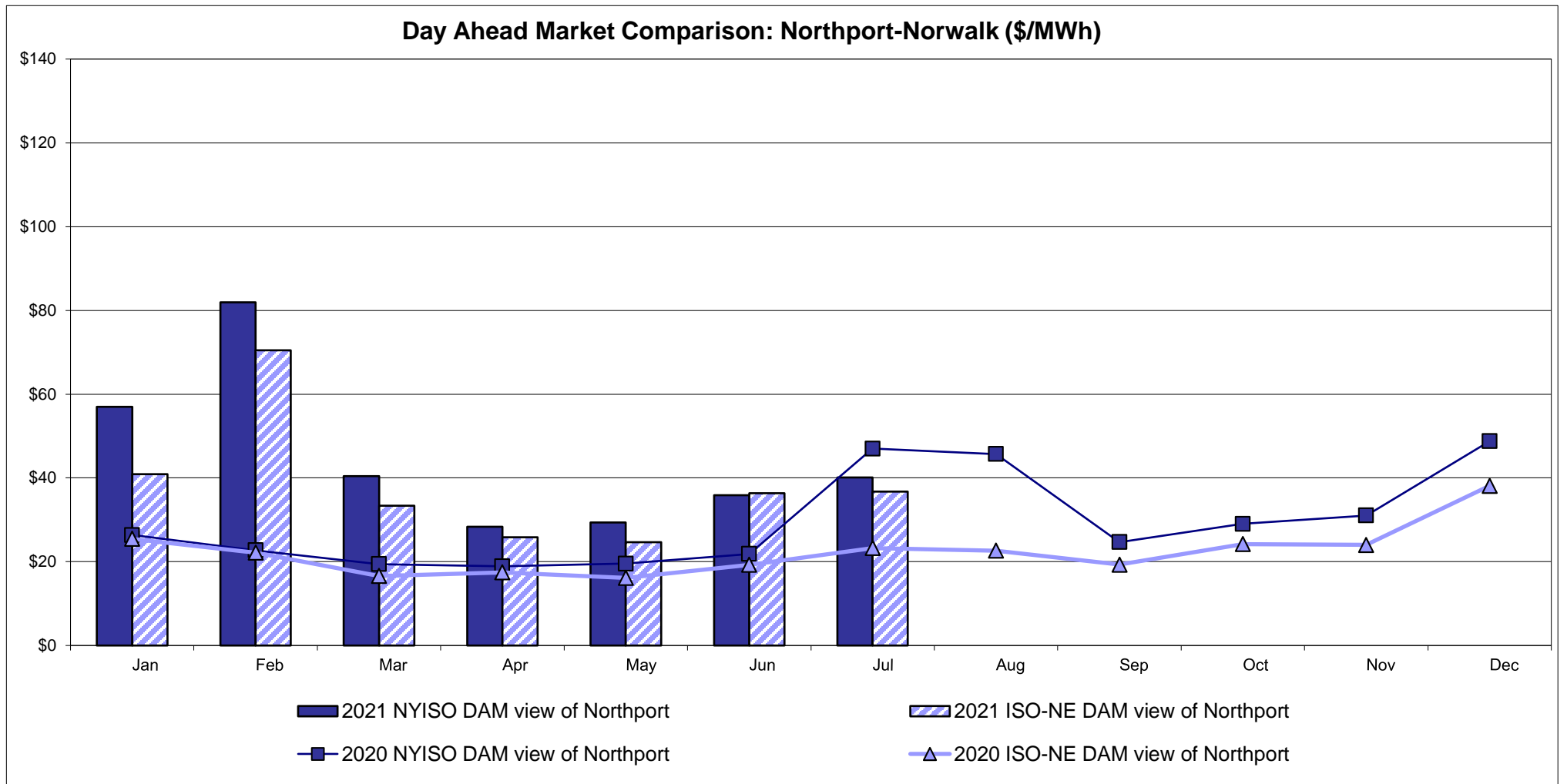
Notes: Exchange factor used for July 2021 was 0.798084596967279 to US
 HOEP: Hourly Ontario Energy Price
 Pre-Dispatch: Projected Energy Price

External Controllable Line: Cross Sound Cable (New England)



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

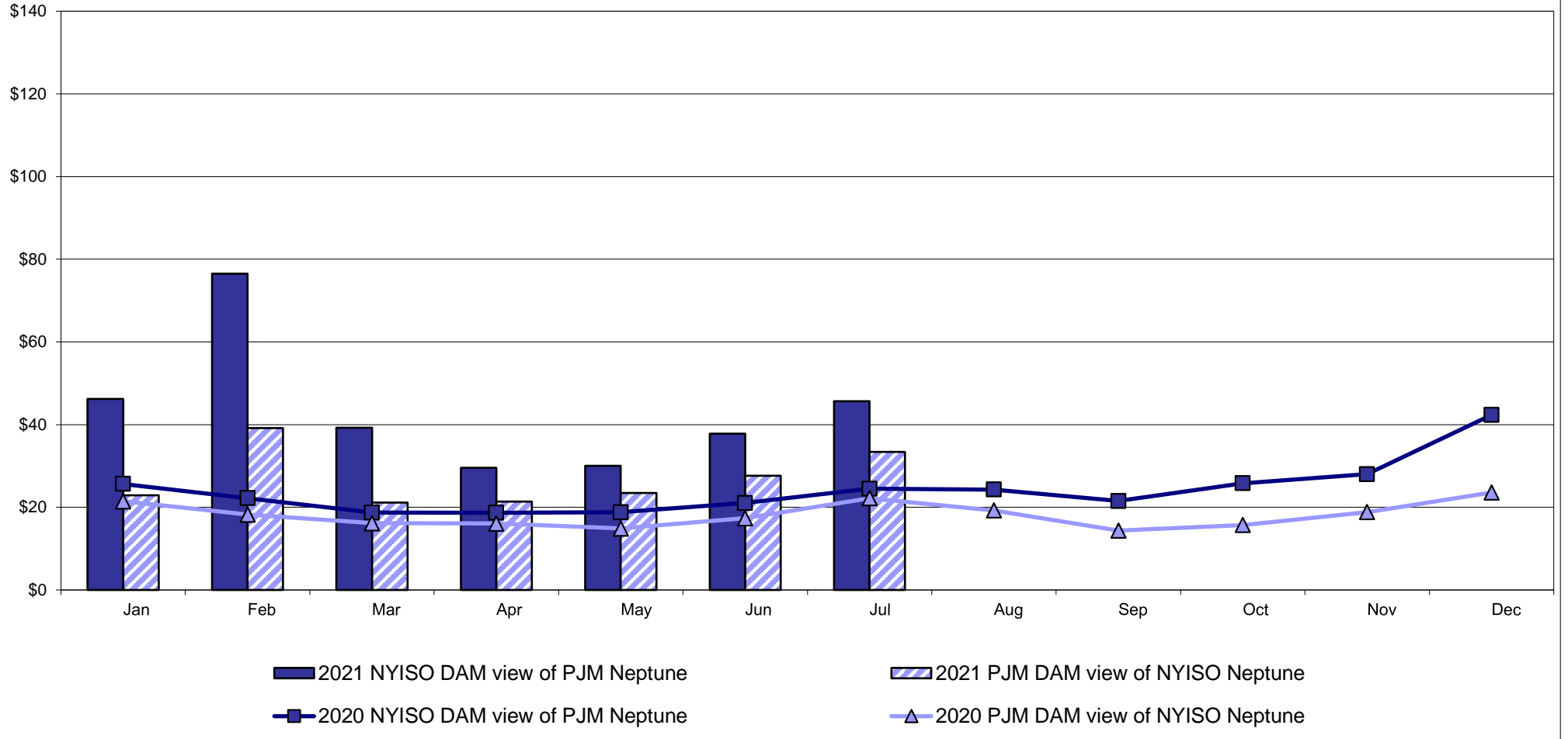
External Controllable Line: Northport - Norwalk (New England)



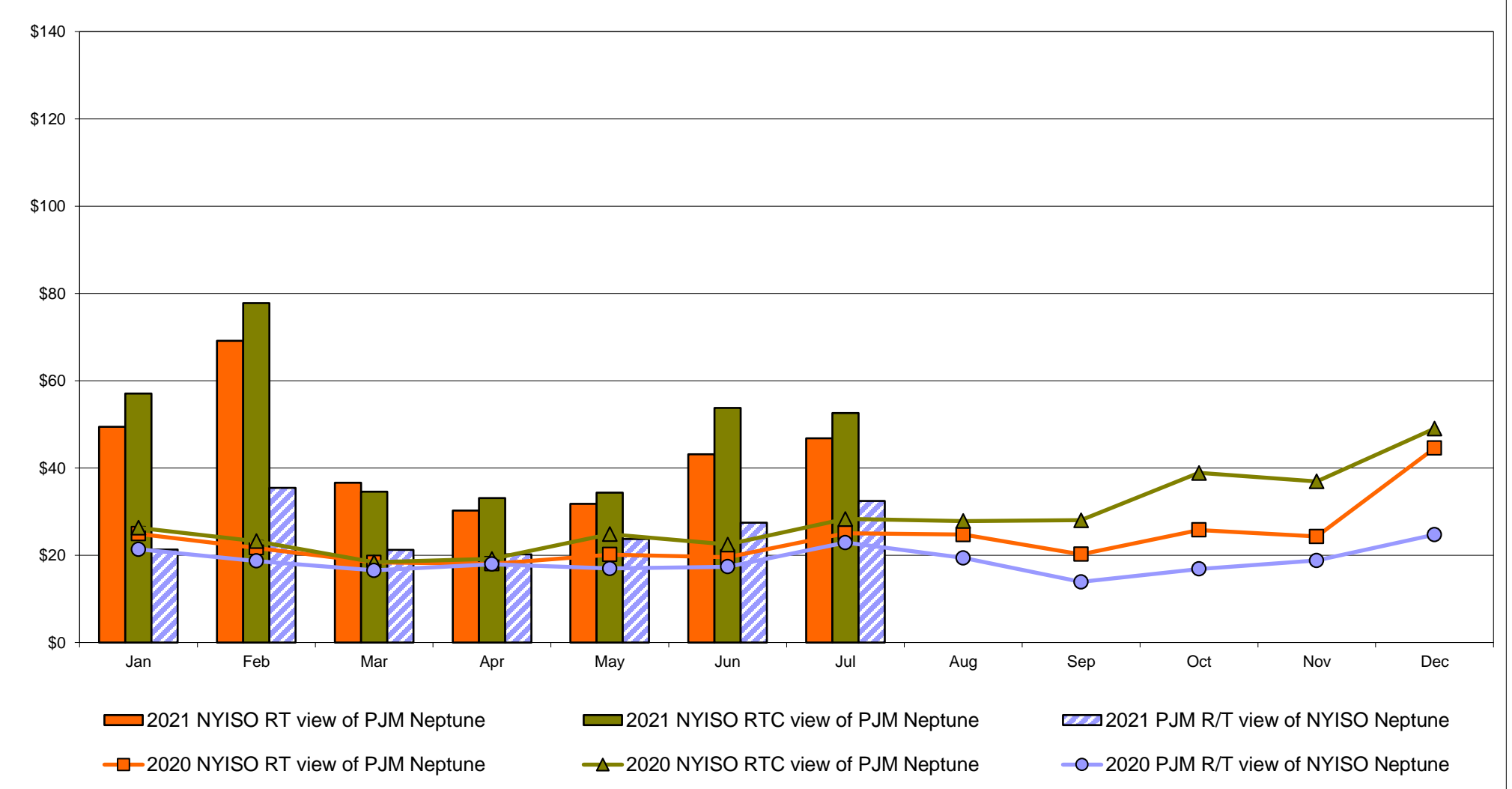
Note:
 ISO-NE Forecast is an advisory posting @ 18:00 day before.
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
 The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

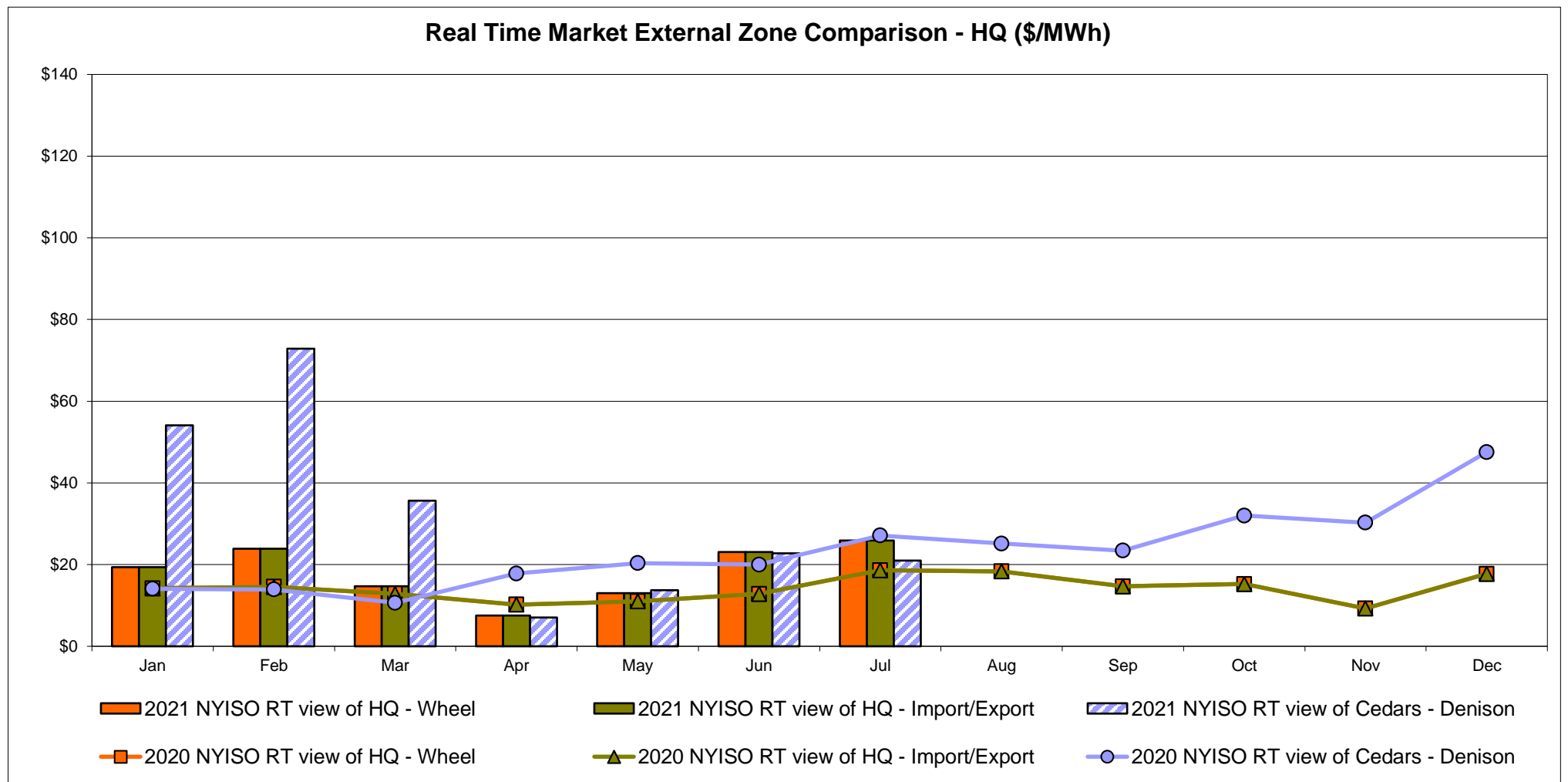
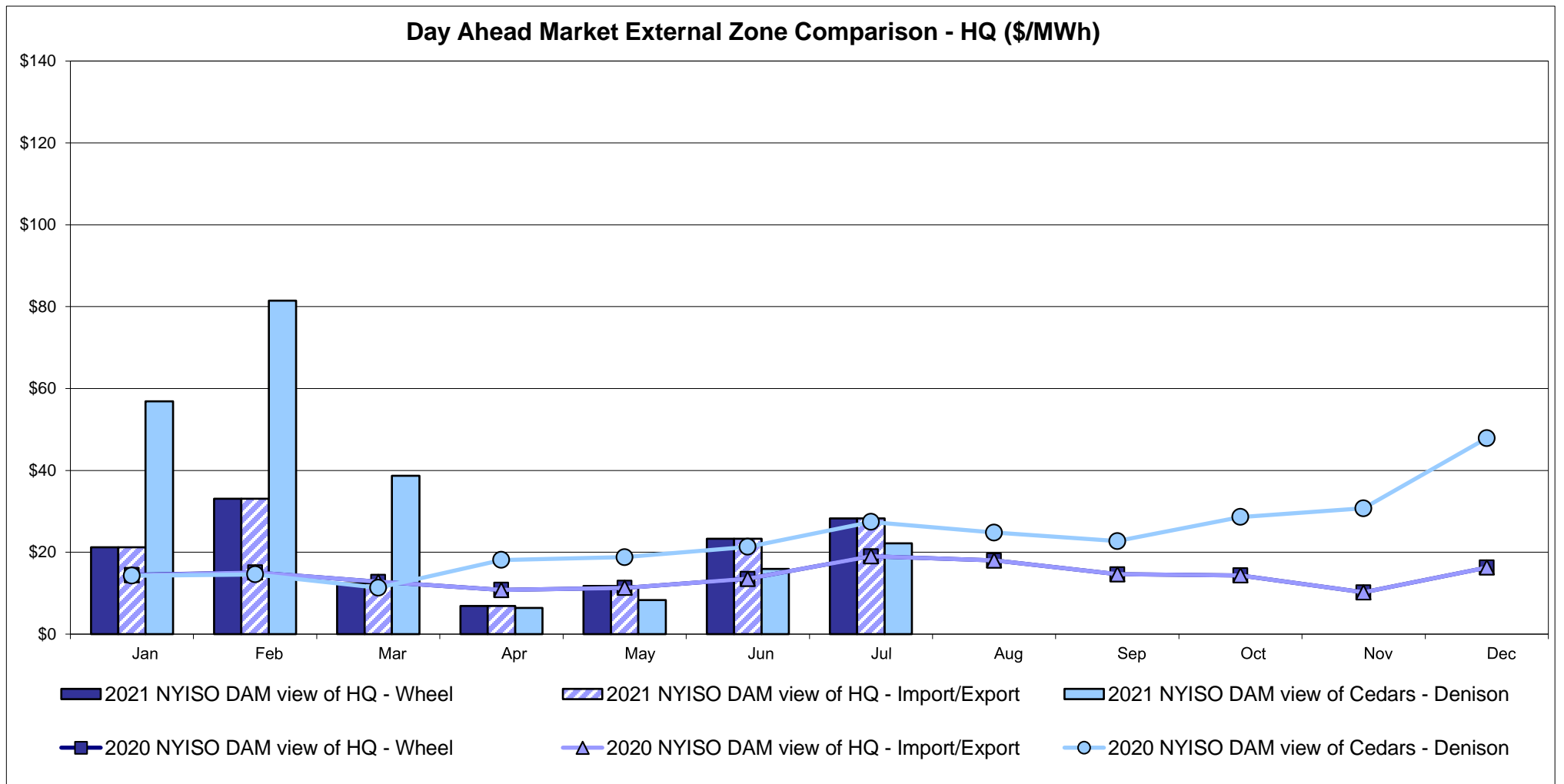
Day Ahead Market Comparison: Neptune (\$/MWh)



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

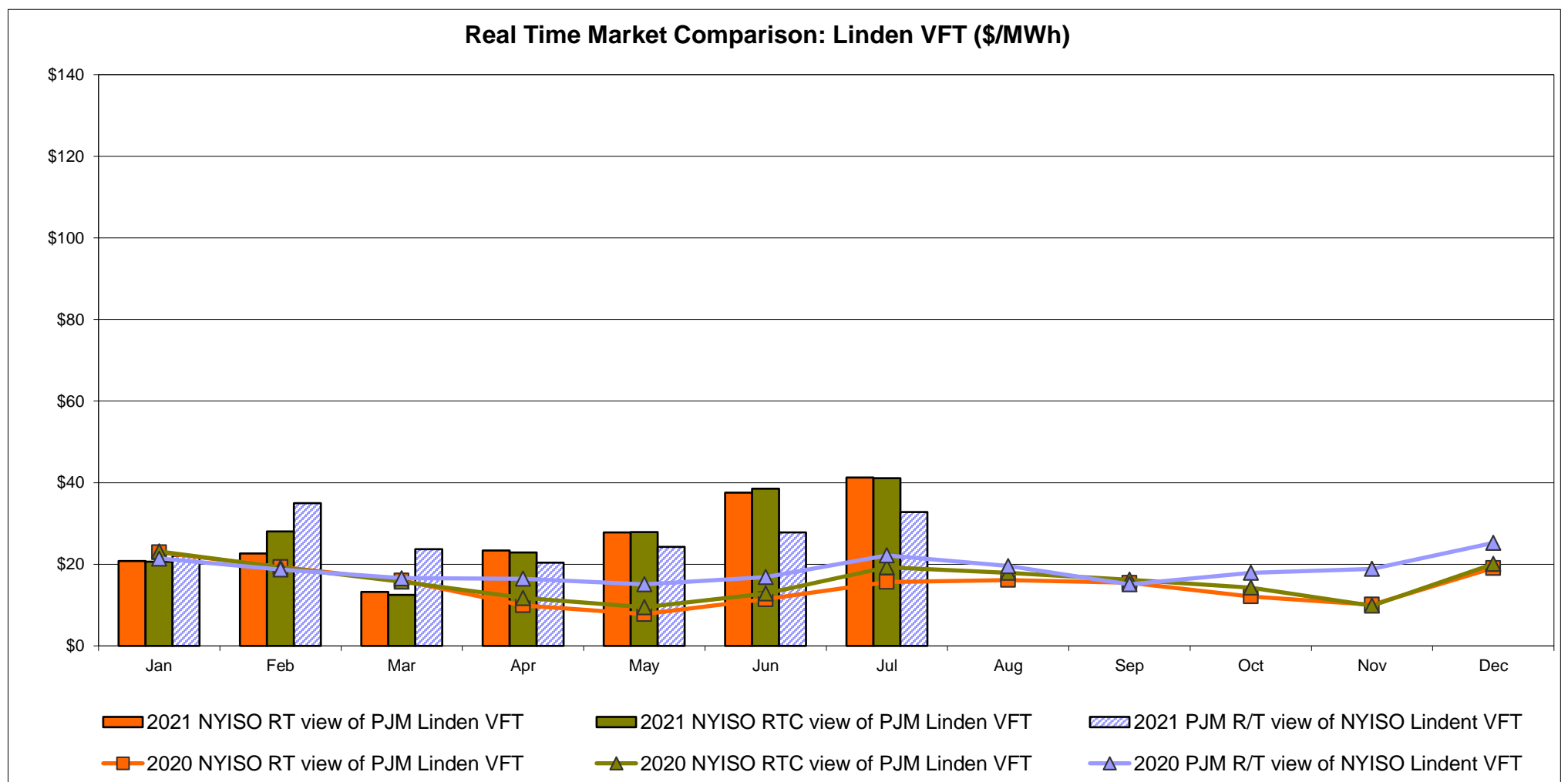
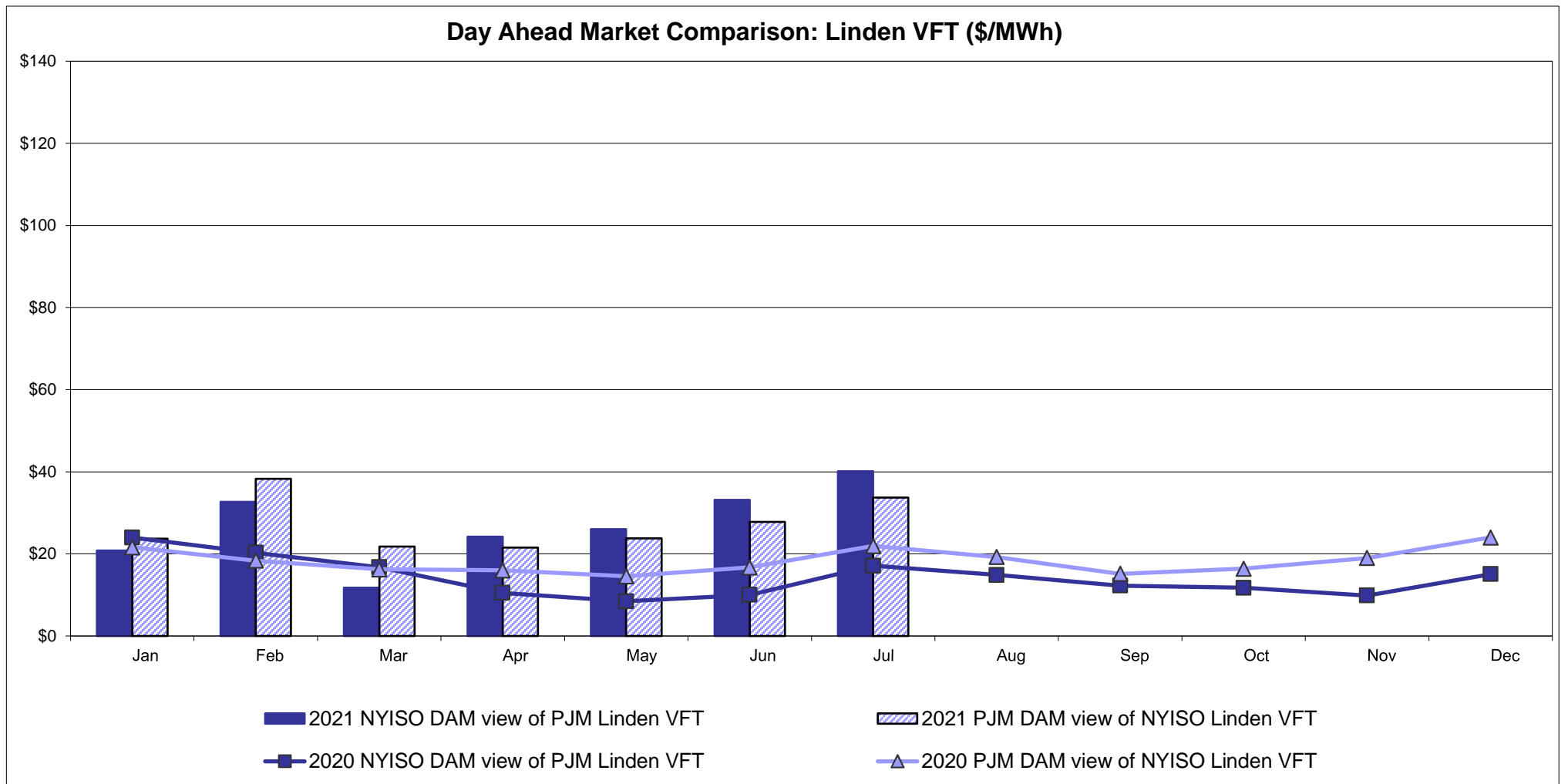


External Comparison Hydro-Quebec

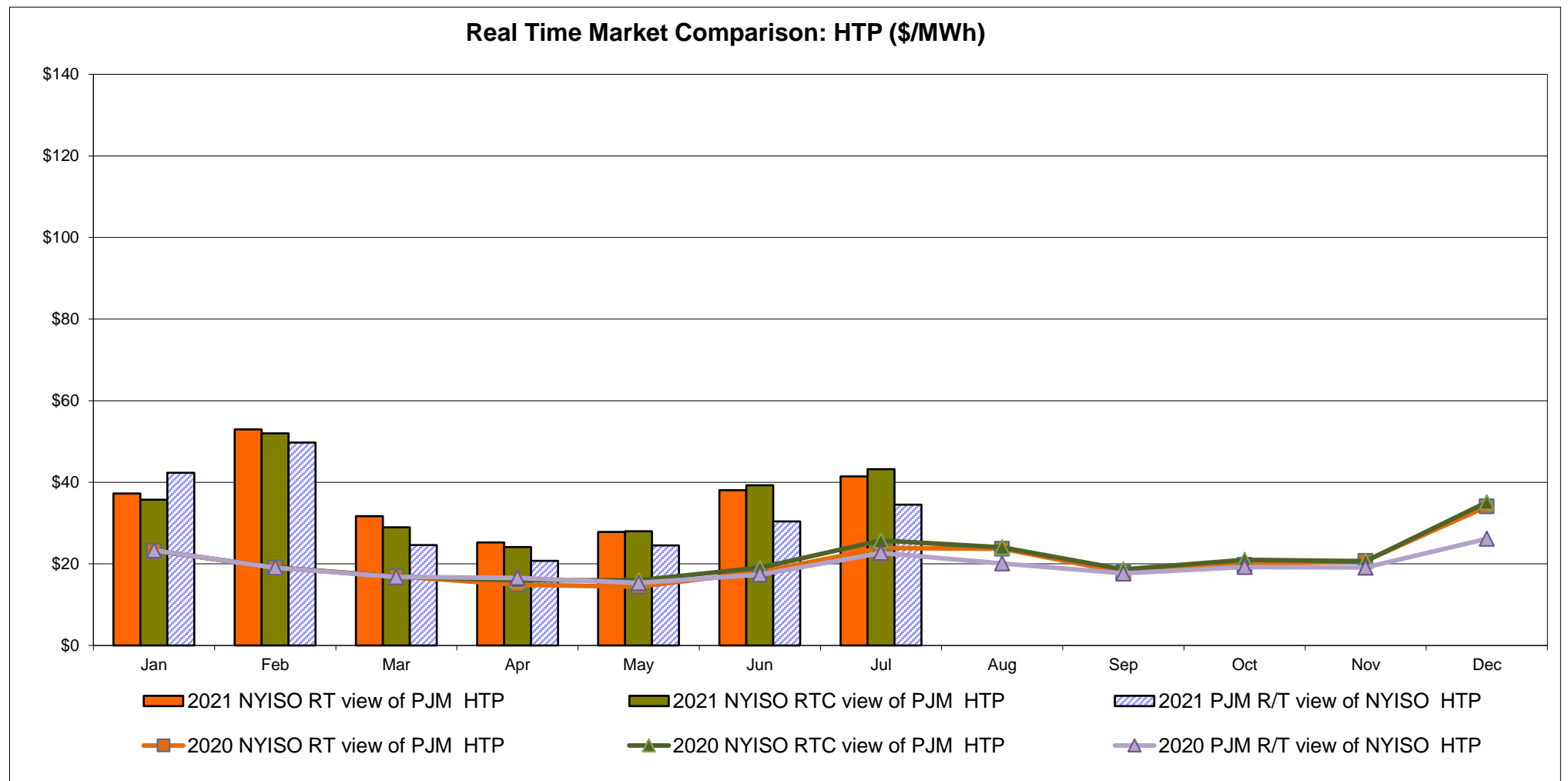
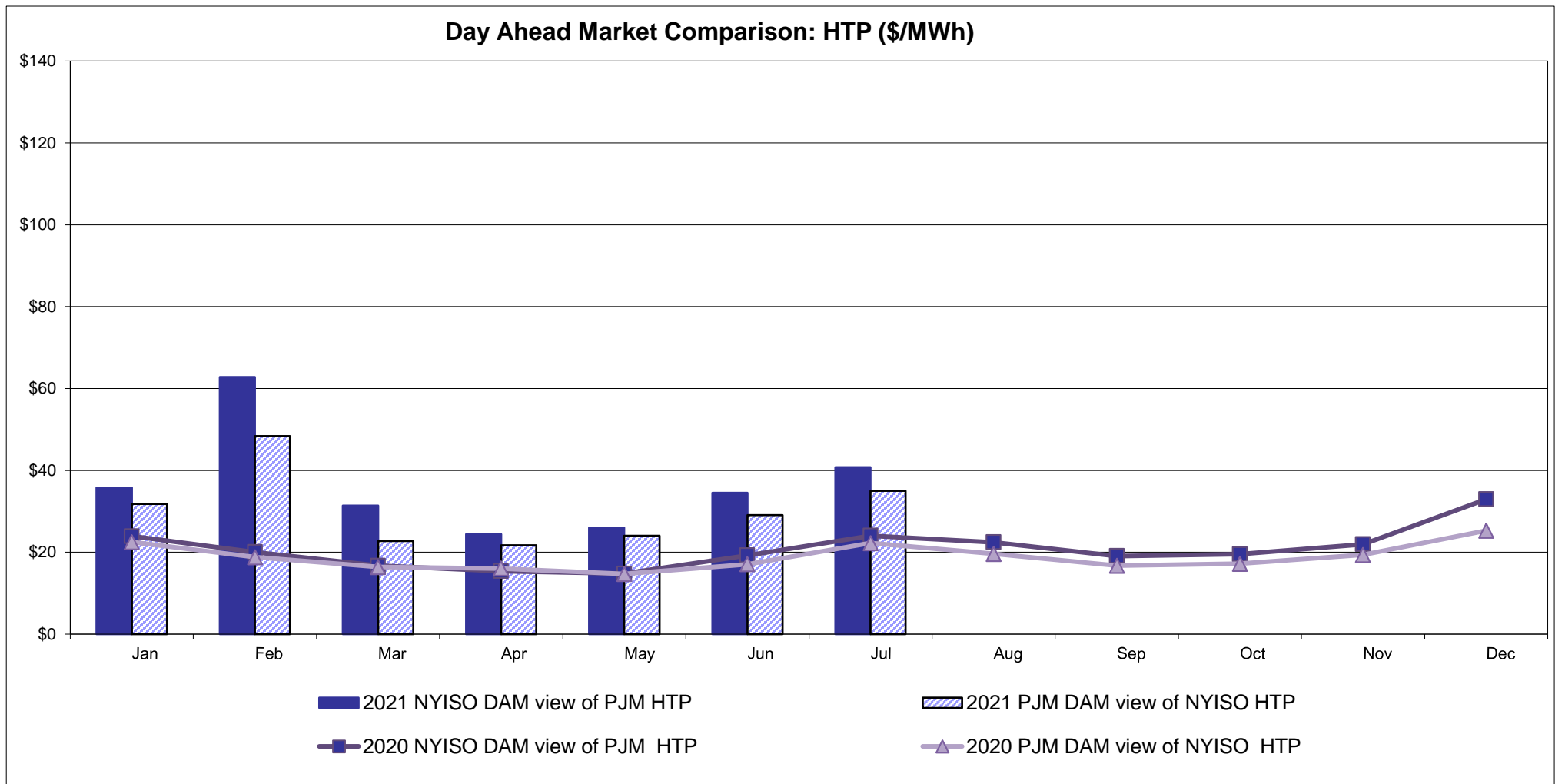


Note:
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

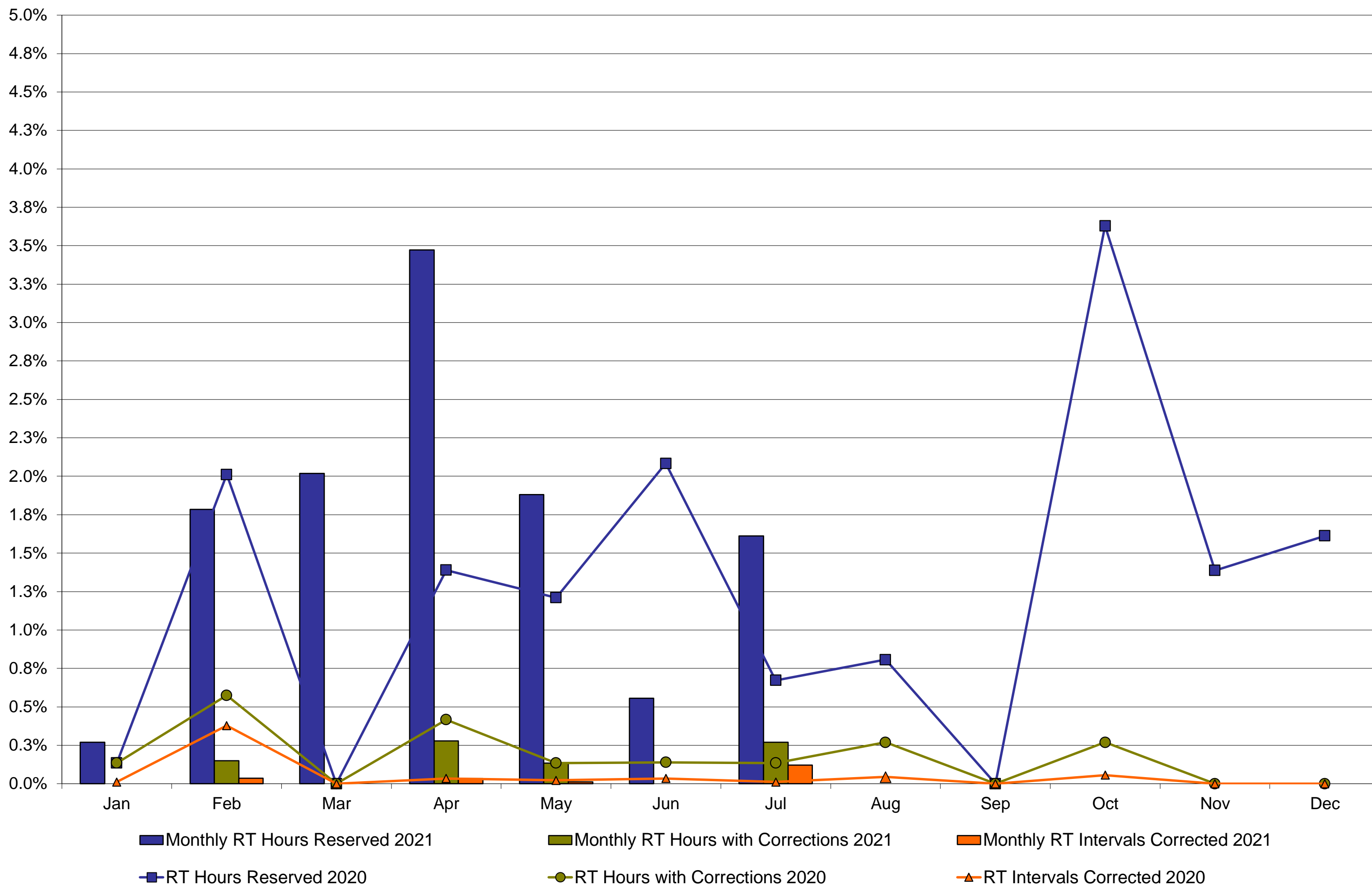


NYISO Real Time Price Correction Statistics

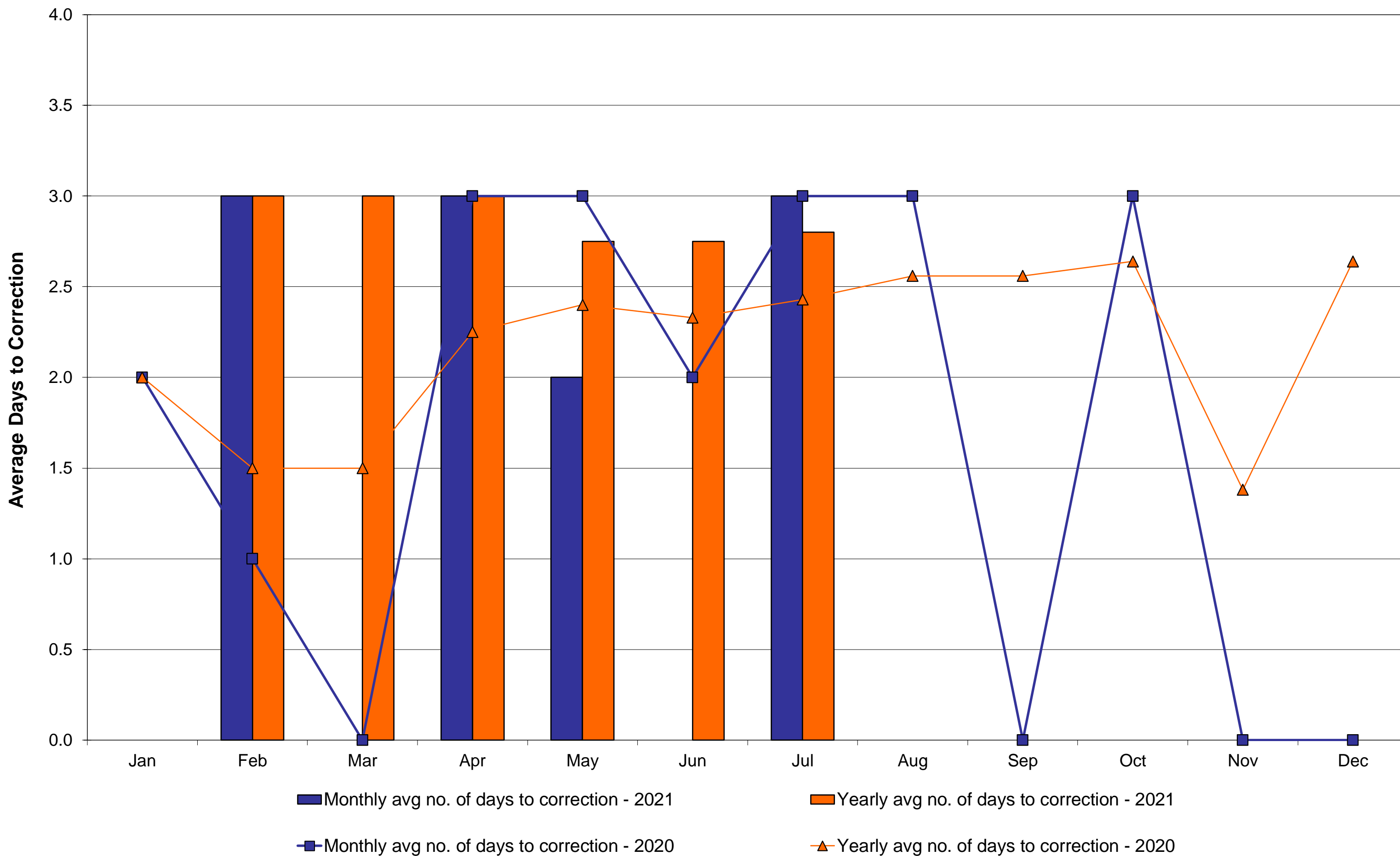
2021		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	0	1	0	2	1	0	2					
Number of hours	in the month	744	672	743	720	744	720	744					
% of hours with corrections	in the month	0.00%	0.15%	0.00%	0.28%	0.13%	0.00%	0.27%					
% of hours with corrections	year-to-date	0.00%	0.07%	0.05%	0.10%	0.11%	0.09%	0.12%					
Interval Corrections													
Number of intervals corrected	in the month	0	3	0	3	1	0	11					
Number of intervals	in the month	9,095	8,236	9,100	8,827	9,157	8,813	9,084					
% of intervals corrected	in the month	0.00%	0.04%	0.00%	0.03%	0.01%	0.00%	0.12%					
% of intervals corrected	year-to-date	0.00%	0.02%	0.01%	0.02%	0.02%	0.01%	0.03%					
Hours Reserved													
Number of hours reserved	in the month	2	12	15	25	14	4	12					
Number of hours	in the month	744	672	743	720	744	720	744					
% of hours reserved	in the month	0.27%	1.79%	2.02%	3.47%	1.88%	0.56%	1.61%					
% of hours reserved	year-to-date	0.27%	0.99%	1.34%	1.88%	1.88%	1.66%	1.65%					
Days to Correction *													
Avg. number of days to correction	in the month	0.00	3.00	0.00	3.00	2.00	0.00	3.00					
Avg. number of days to correction	year-to-date	0.00	3.00	3.00	3.00	2.75	2.75	2.80					
Days Without Corrections													
Days without corrections	in the month	31	27	31	28	30	30	30					
Days without corrections	year-to-date	31	58	89	117	147	177	207					
2020		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	1	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%
Interval Corrections													
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%
Hours Reserved													
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%
Days to Correction *													
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
Days Without Corrections													
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

Percentage of Real-Time Corrections

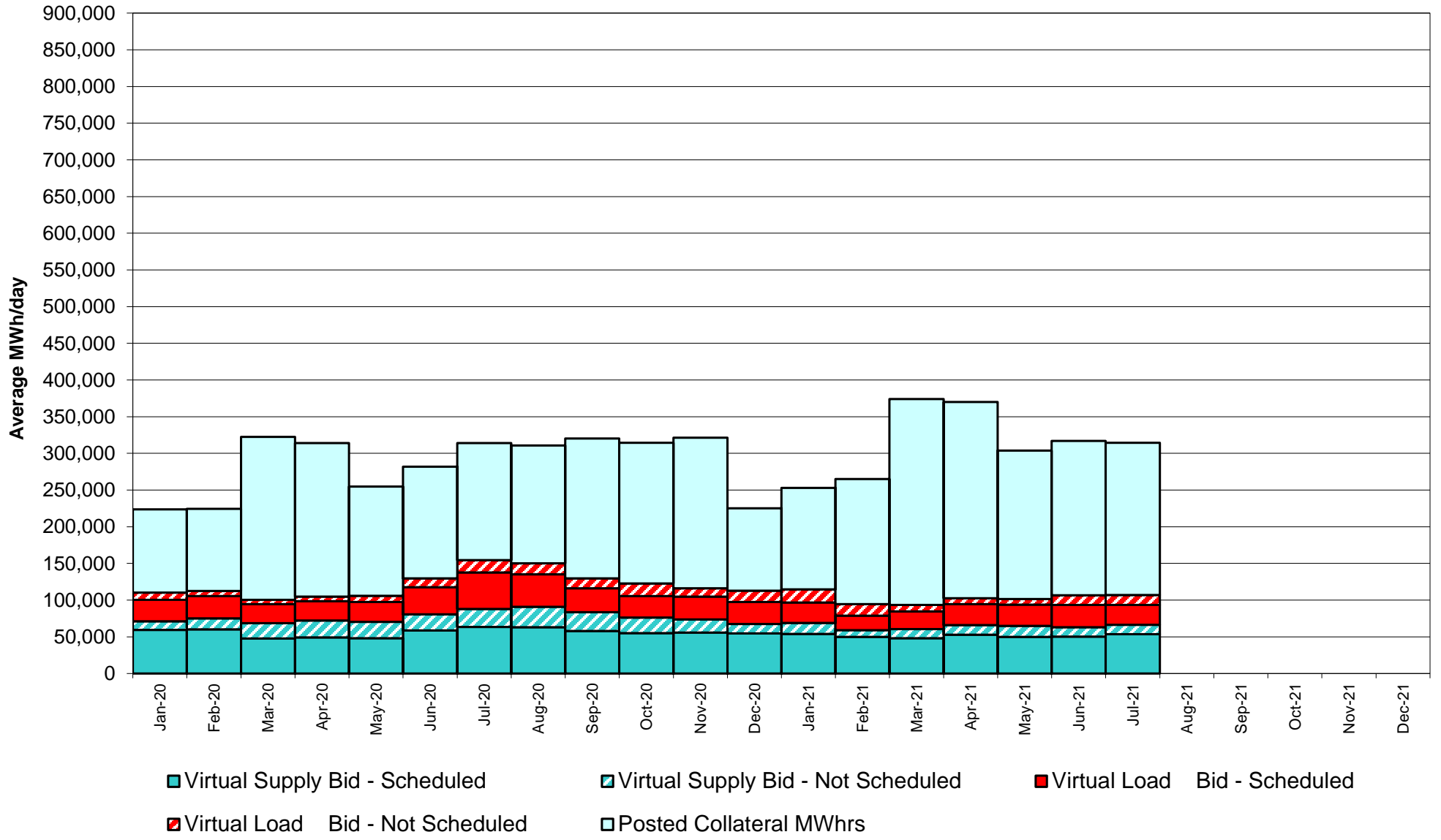


Annual average time period for making Price Corrections (from reservation date) *

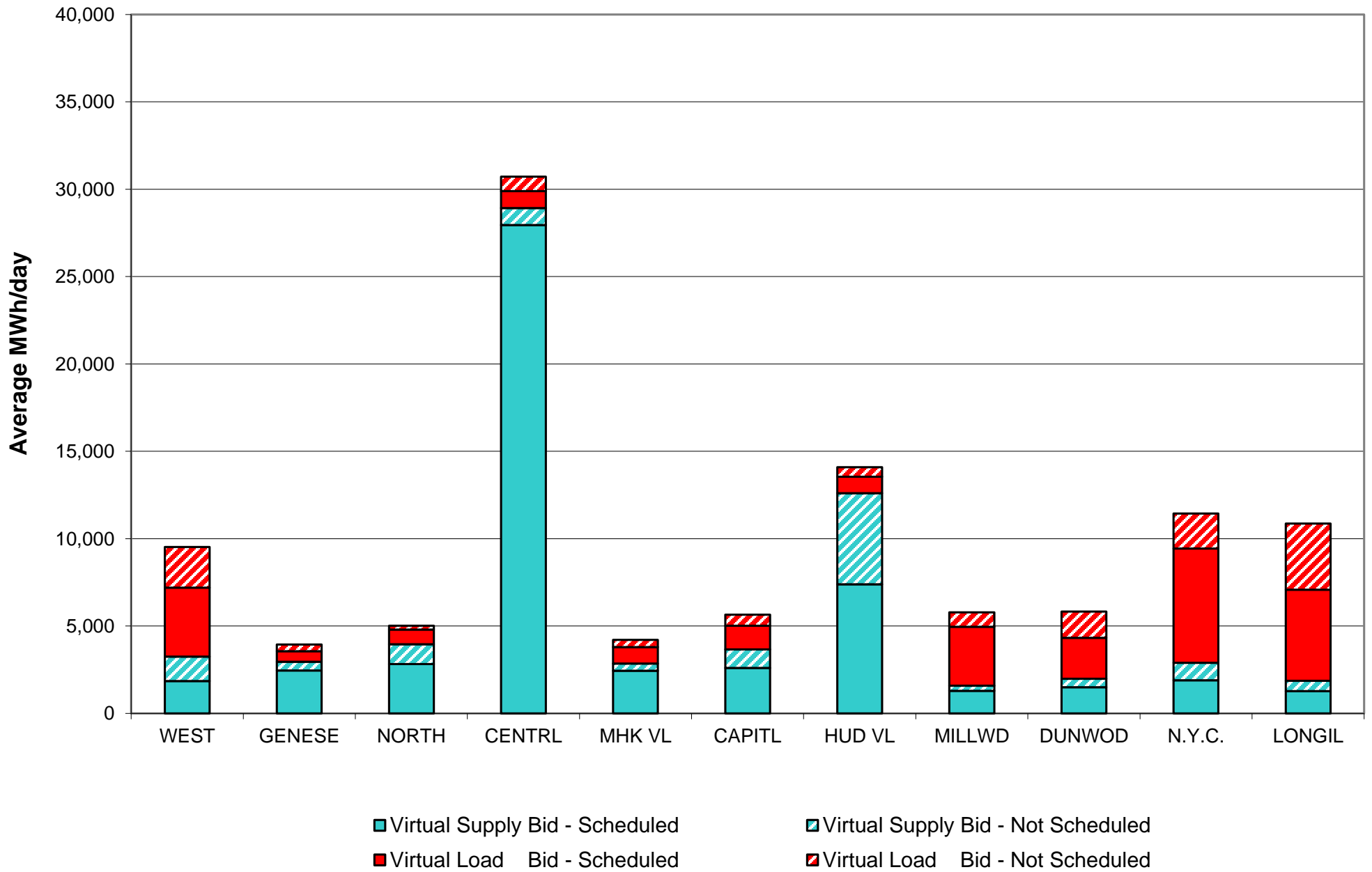


*Calendar days from reservation date; for June 2018 forward, business days from market date

NYISO Virtual Trading Average MWh per day



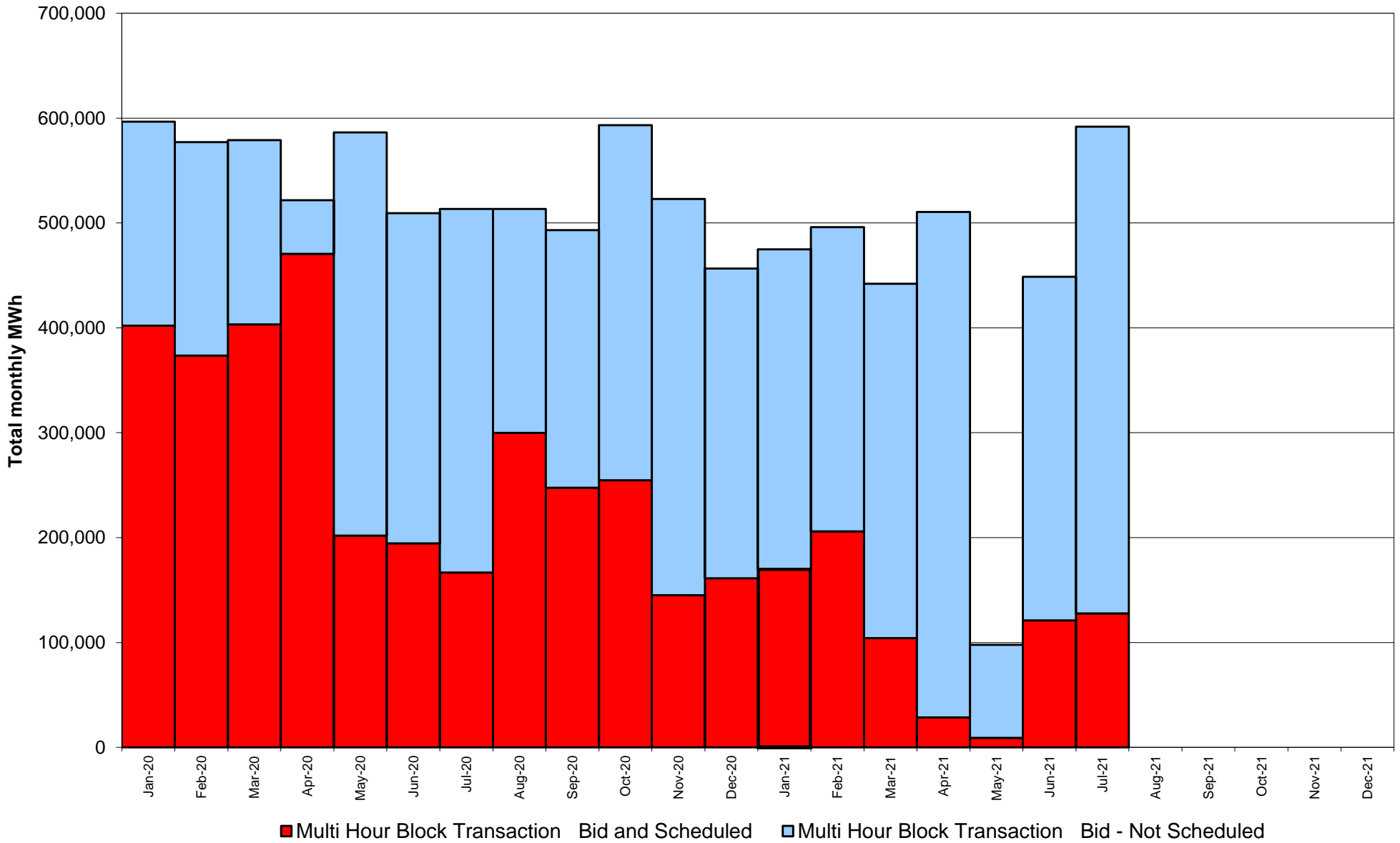
Virtual Load and Supply Zonal Statistics through July 31, 2021



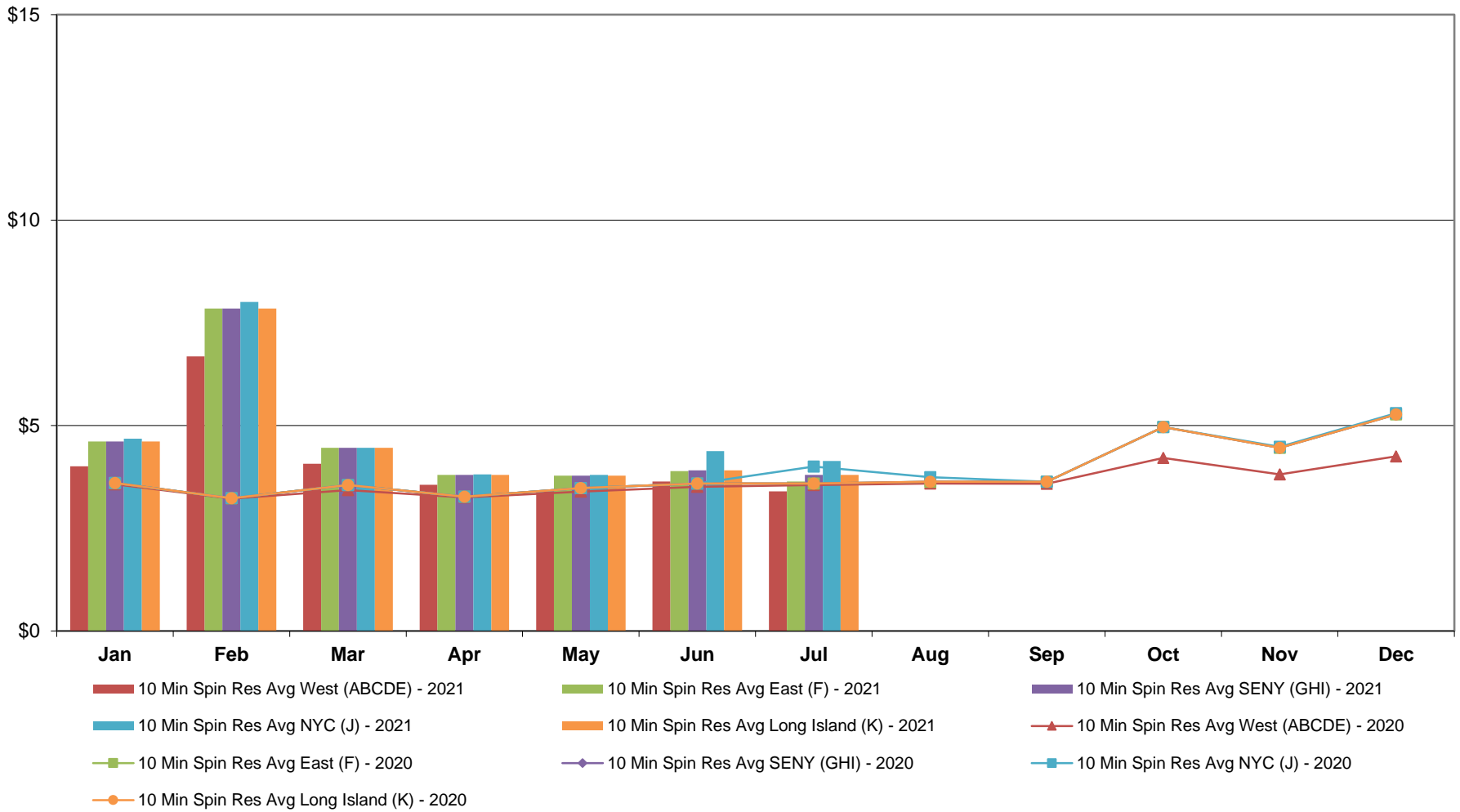
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2021

		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	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	2,000	475
	Feb-21	4,588	1,544	1,842	959		Feb-21	1,031	584	2,081	392		Feb-21	912	1,806	2,015	568
	Mar-21	5,696	840	1,144	893		Mar-21	1,669	305	1,402	524		Mar-21	1,303	817	1,780	1,142
	Apr-21	6,747	1,100	1,948	873		Apr-21	1,741	366	1,982	670		Apr-21	1,519	638	2,166	524
	May-21	7,289	1,632	1,432	630		May-21	1,279	353	2,009	447		May-21	3,219	868	1,347	461
	Jun-21	4,916	1,989	1,498	559		Jun-21	1,400	438	1,637	283		Jun-21	2,411	1,770	1,455	233
	Jul-21	3,954	2,328	1,857	1,390		Jul-21	951	412	2,439	413		Jul-21	2,349	1,494	1,492	488
	Aug-21						Aug-21						Aug-21				
	Sep-21						Sep-21						Sep-21				
	Oct-21						Oct-21						Oct-21				
	Nov-21						Nov-21						Nov-21				
	Dec-21						Dec-21						Dec-21				
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	2,503	679
	Feb-21	857	390	1,310	617		Feb-21	2,483	1,967	2,065	535		Feb-21	1,983	2,475	2,275	678
	Mar-21	817	295	1,433	833		Mar-21	3,192	1,581	2,230	1,041		Mar-21	2,149	1,385	2,465	757
	Apr-21	1,396	466	1,251	834		Apr-21	2,770	1,075	3,404	694		Apr-21	2,116	602	3,175	662
	May-21	862	431	1,680	486		May-21	1,417	532	2,776	837		May-21	2,664	678	2,697	532
	Jun-21	653	393	1,426	390		Jun-21	2,396	994	2,144	636		Jun-21	5,791	1,832	1,941	620
	Jul-21	603	394	2,451	500		Jul-21	1,350	632	2,598	1,069		Jul-21	6,538	2,006	1,898	1,003
	Aug-21						Aug-21						Aug-21				
	Sep-21						Sep-21						Sep-21				
	Oct-21						Oct-21						Oct-21				
	Nov-21						Nov-21						Nov-21				
	Dec-21						Dec-21						Dec-21				
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	3,261	686
	Feb-21	405	410	2,654	1,258		Feb-21	1,685	1,148	4,967	2,247		Feb-21	3,899	3,560	1,758	862
	Mar-21	641	125	3,152	2,052		Mar-21	1,013	455	5,555	3,086		Mar-21	4,846	2,196	2,232	1,195
	Apr-21	1,031	278	3,310	1,622		Apr-21	1,096	411	6,547	5,166		Apr-21	6,288	1,581	2,121	631
	May-21	1,041	164	3,171	1,703		May-21	1,658	425	5,040	8,201		May-21	6,112	1,898	1,422	961
	Jun-21	1,051	294	2,897	1,454		Jun-21	1,758	692	7,862	7,556		Jun-21	6,451	3,532	1,082	663
	Jul-21	839	217	2,827	1,134		Jul-21	934	547	7,395	5,215		Jul-21	5,218	3,792	1,279	583
	Aug-21						Aug-21						Aug-21				
	Sep-21						Sep-21						Sep-21				
	Oct-21						Oct-21						Oct-21				
	Nov-21						Nov-21						Nov-21				
	Dec-21						Dec-21						Dec-21				
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	54,093	14,973
	Feb-21	1,357	1,102	27,531	954		Feb-21	530	541	1,463	115		Feb-21	19,732	15,526	49,963	9,186
	Mar-21	2,108	541	24,874	888		Mar-21	731	240	1,732	175		Mar-21	24,164	8,780	47,999	12,586
	Apr-21	3,179	941	25,006	1,249		Apr-21	775	359	2,106	126		Apr-21	28,658	7,818	53,015	13,052
	May-21	1,973	708	27,134	433		May-21	1,245	245	1,386	145		May-21	28,758	7,933	50,094	14,836
	Jun-21	1,508	672	27,029	512		Jun-21	2,049	506	1,203	85		Jun-21	30,385	13,112	50,174	12,992
	Jul-21	974	820	27,958	965		Jul-21	3,381	822	1,292	293		Jul-21	27,090	13,465	53,486	13,053
	Aug-21						Aug-21						Aug-21				
	Sep-21						Sep-21						Sep-21				
	Oct-21						Oct-21						Oct-21				
	Nov-21						Nov-21						Nov-21				
	Dec-21						Dec-21						Dec-21				

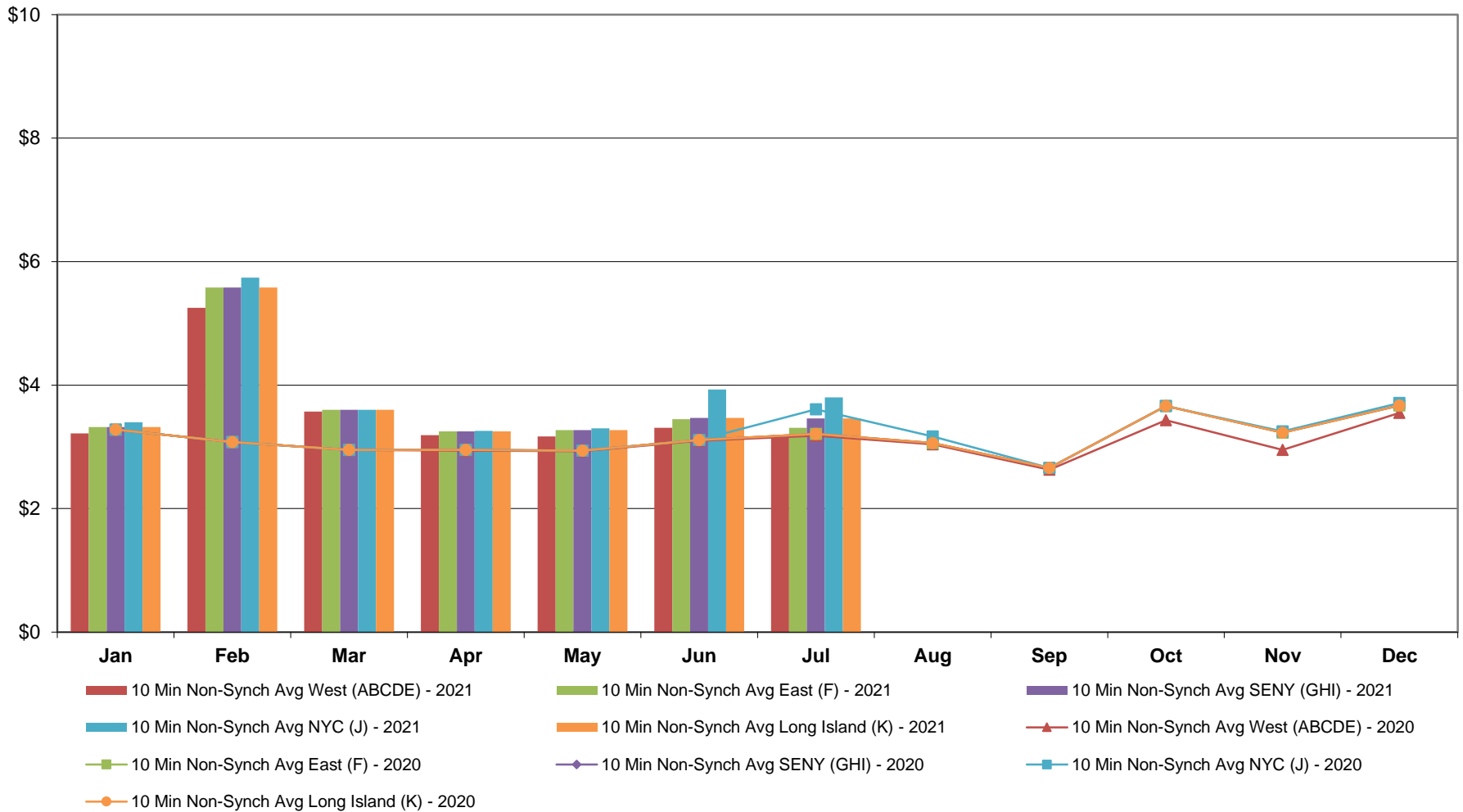
NYISO Multi Hour Block Transactions Monthly Total MWh



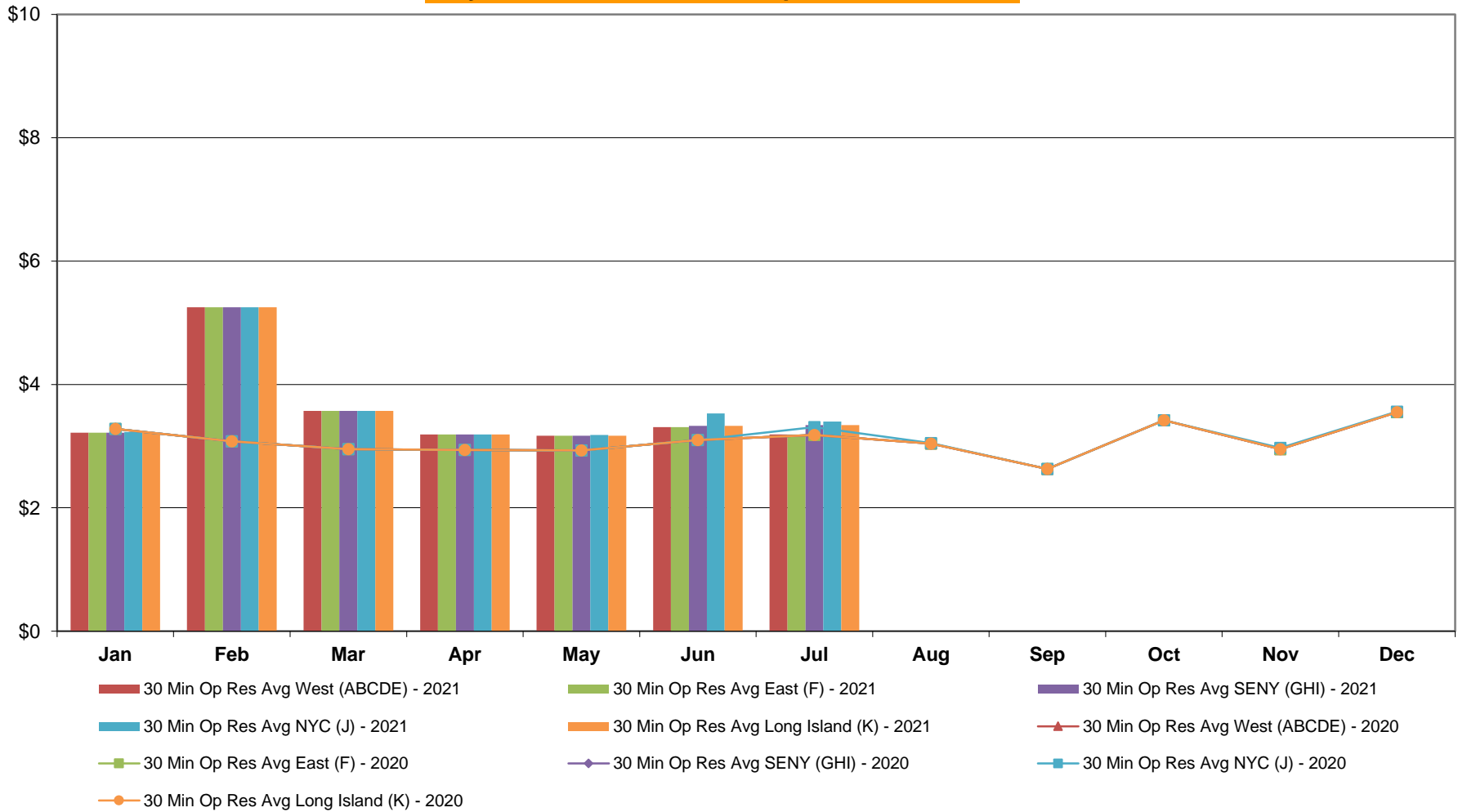
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - 10 Min Spin 2020 - 2021**



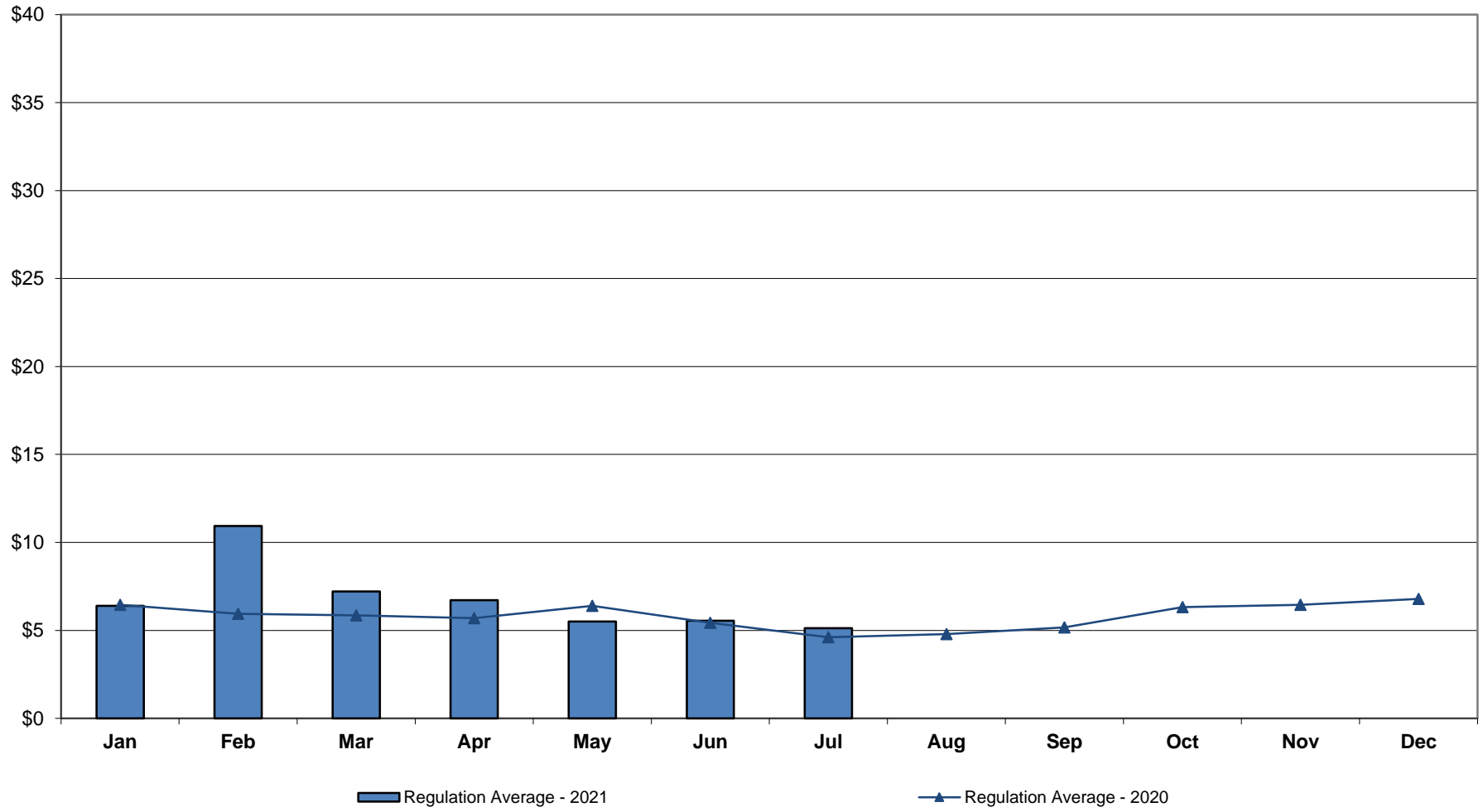
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - 10 Min Non-Synch 2020 - 2021**



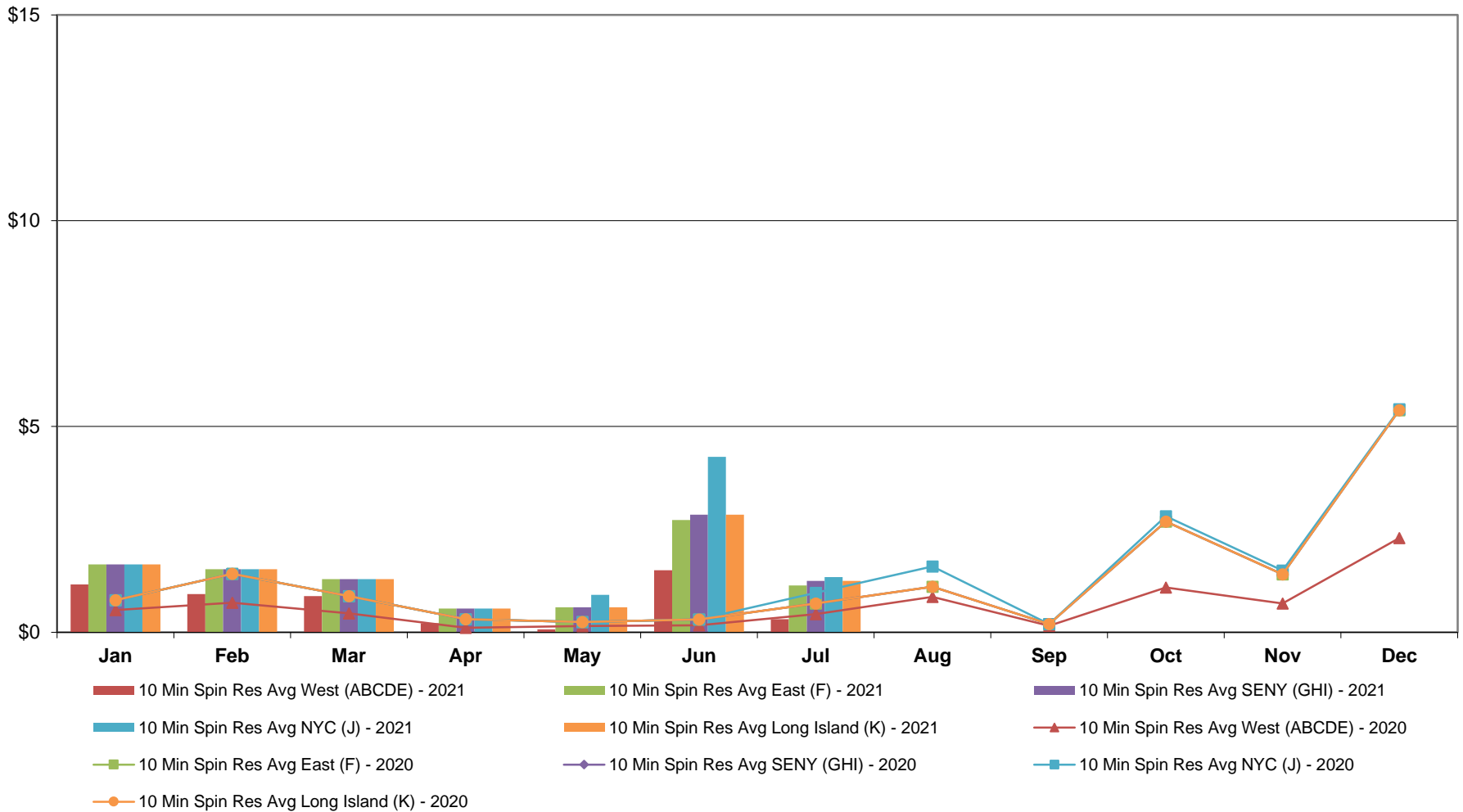
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - 30 Min Op Res 2020 - 2021**



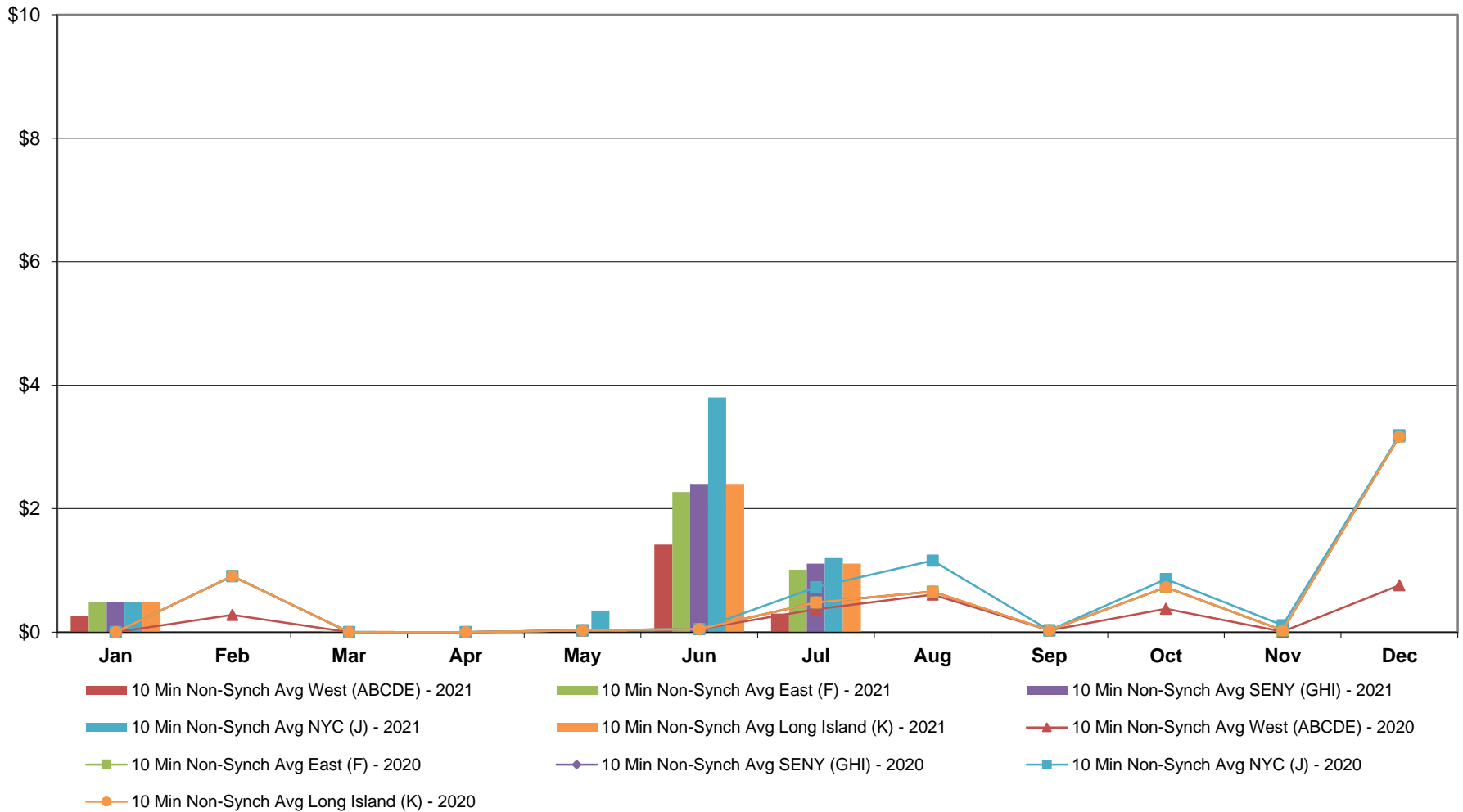
**NYISO Monthly Average Ancillary Service Prices
Day Ahead Market - Regulation 2020 - 2021**



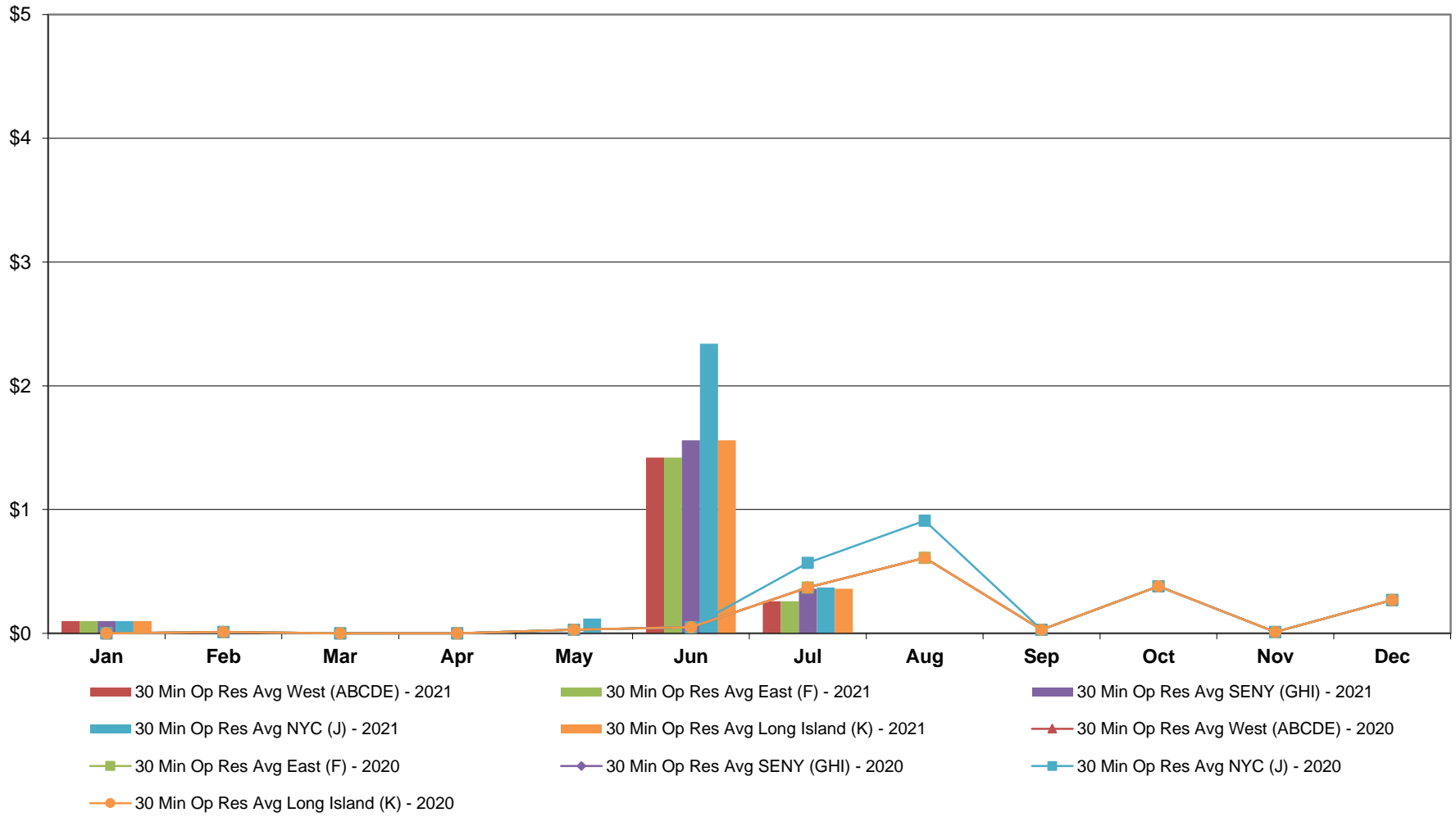
**NYISO Monthly Average Ancillary Service Prices
RTC Market - 10 Min Spin 2020 - 2021**



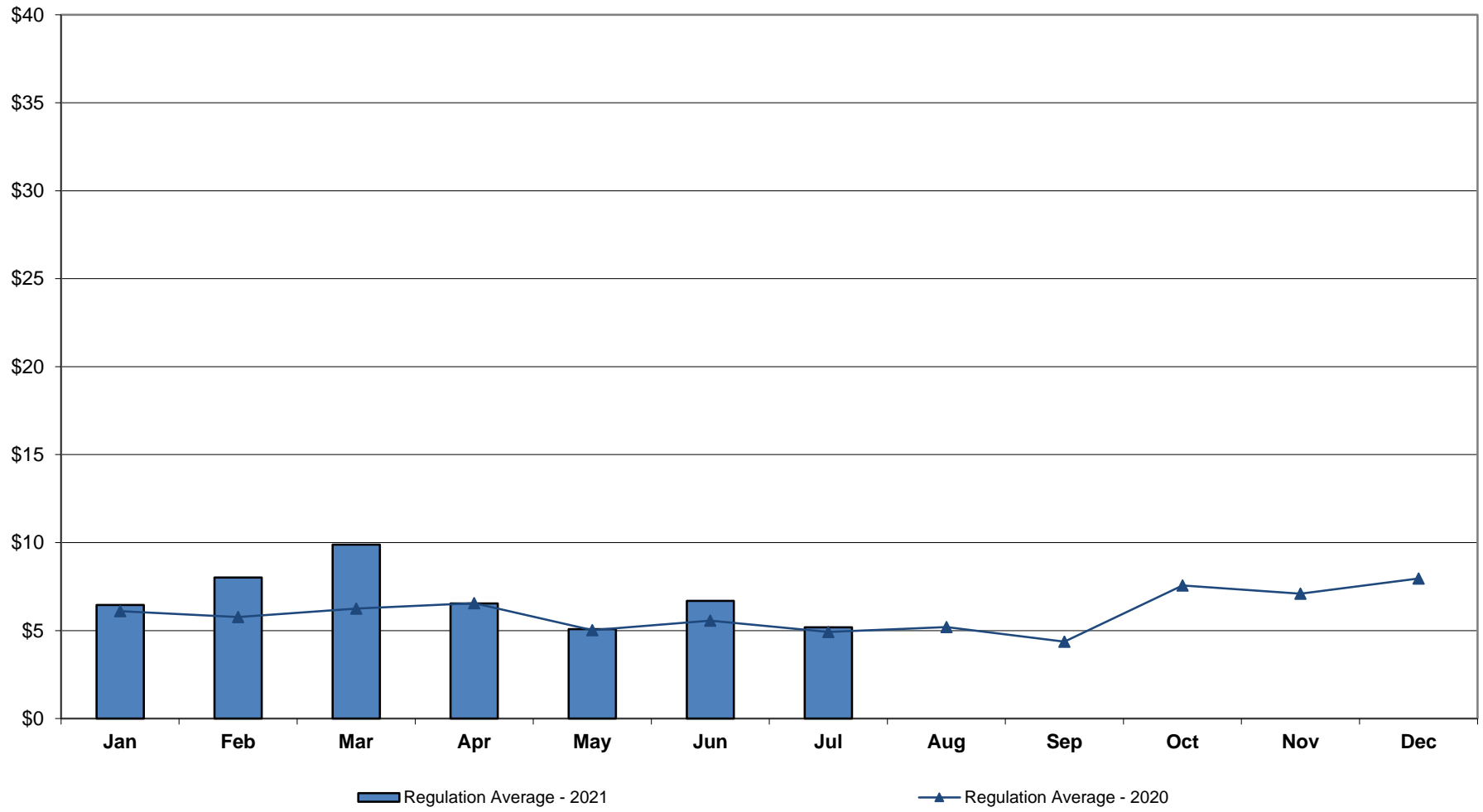
**NYISO Monthly Average Ancillary Service Prices
RTC Market - 10 Min Non-Synch 2020 - 2021**



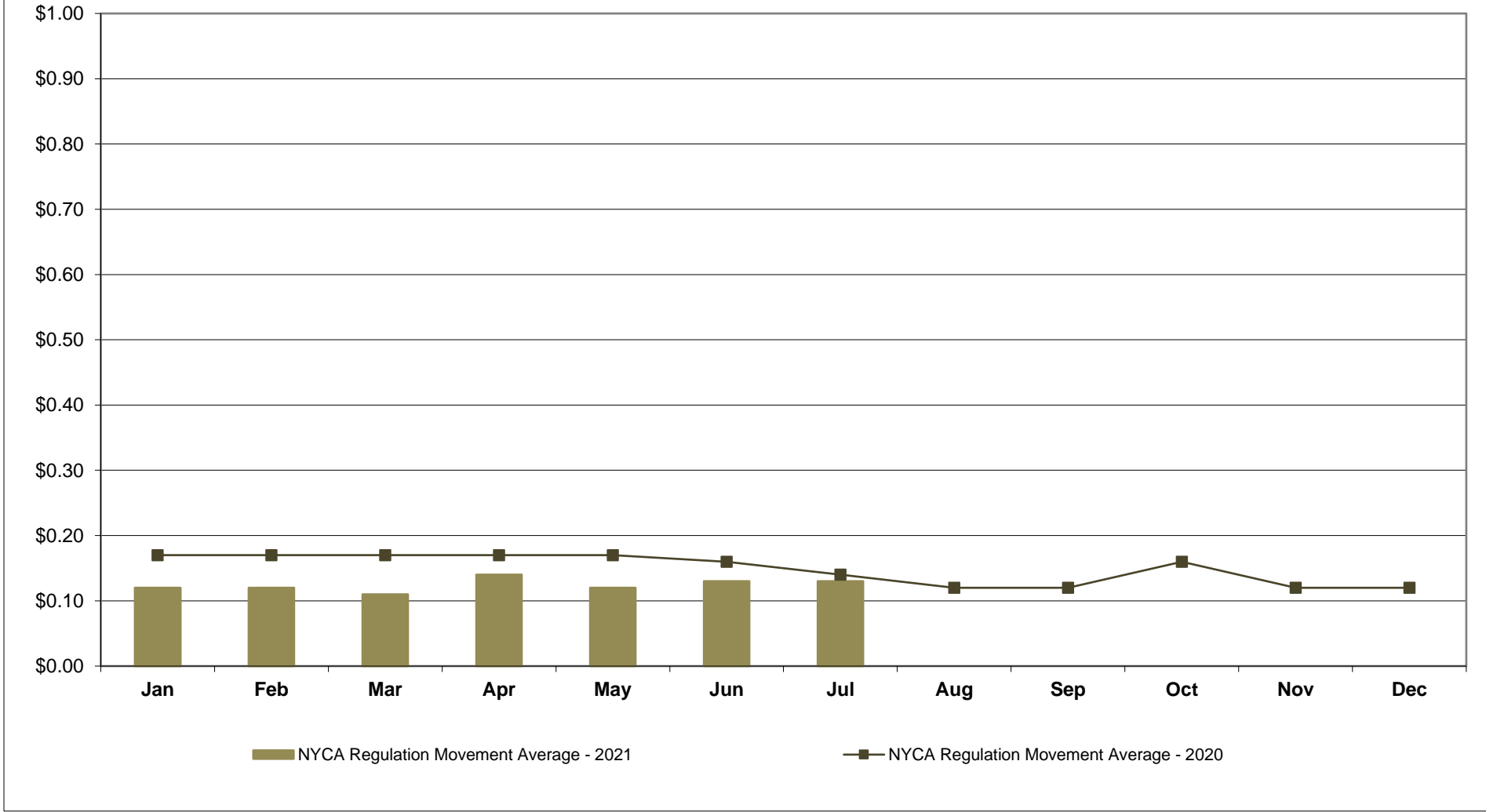
**NYISO Monthly Average Ancillary Service Prices
RTC Market - 30 Min Op Res 2020 - 2021**



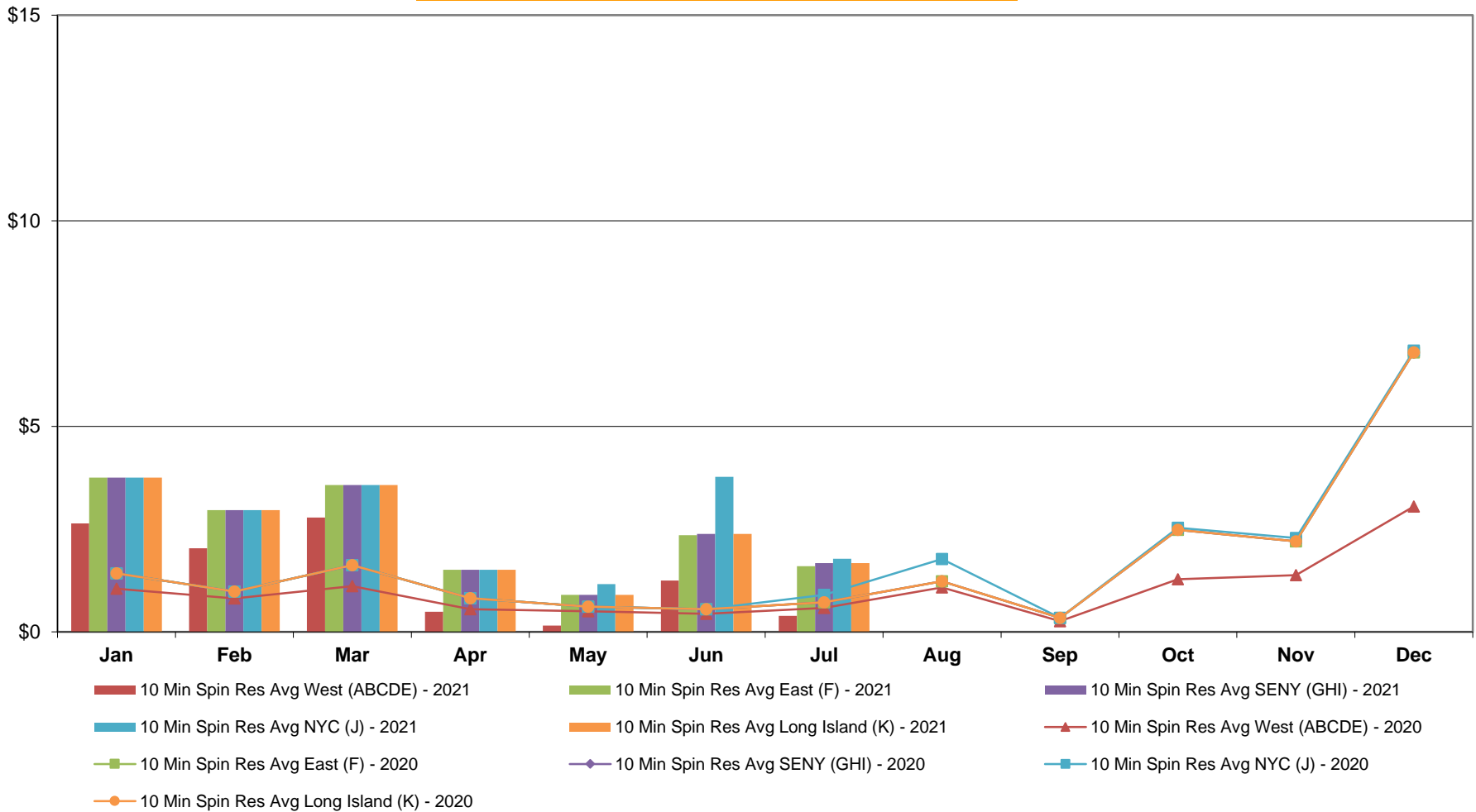
**NYISO Monthly Average Ancillary Service Prices
RTC Market - Regulation 2020 - 2021**



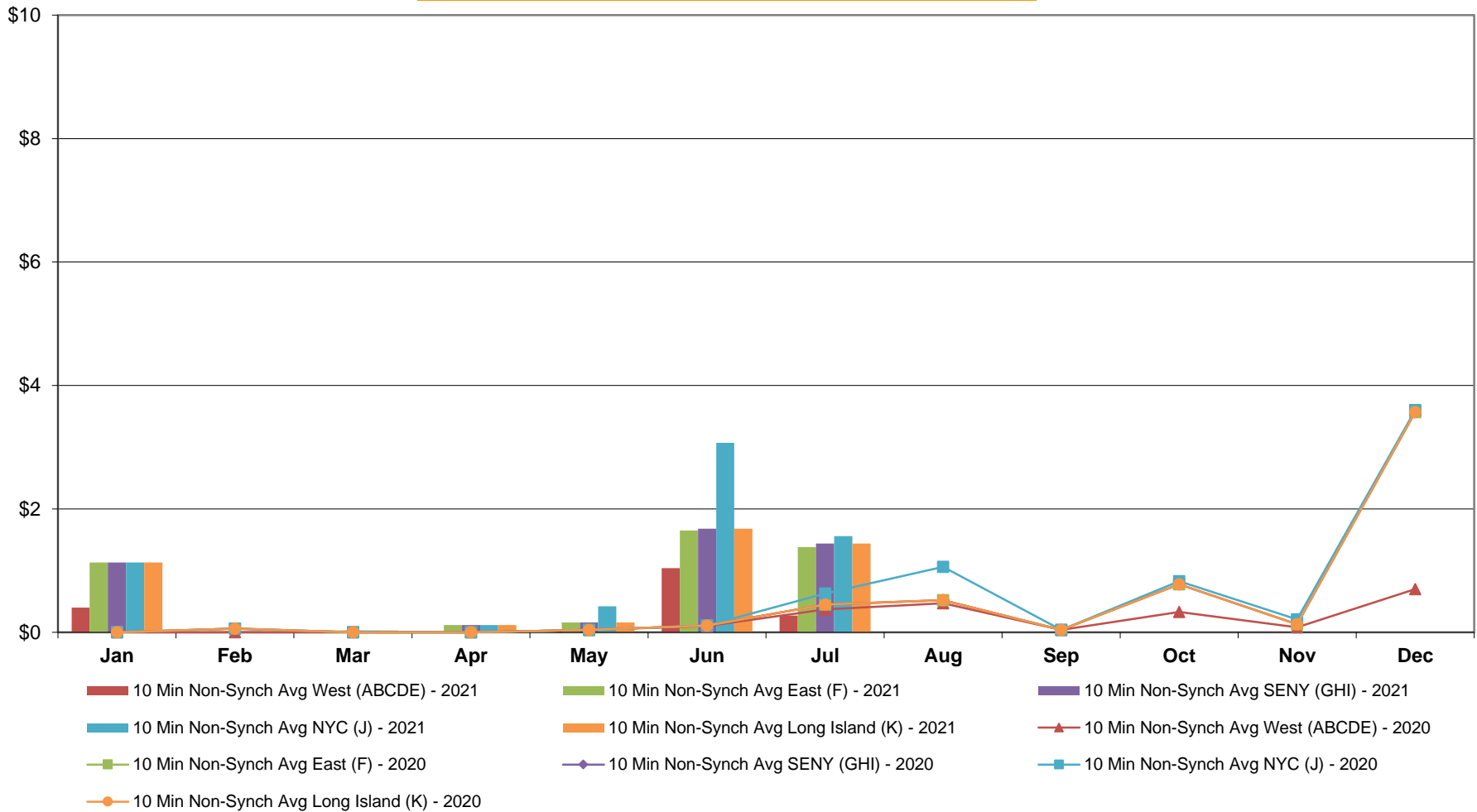
**NYISO Monthly Average Ancillary Service Prices
RTC Market - Regulation Movement 2020 - 2021**



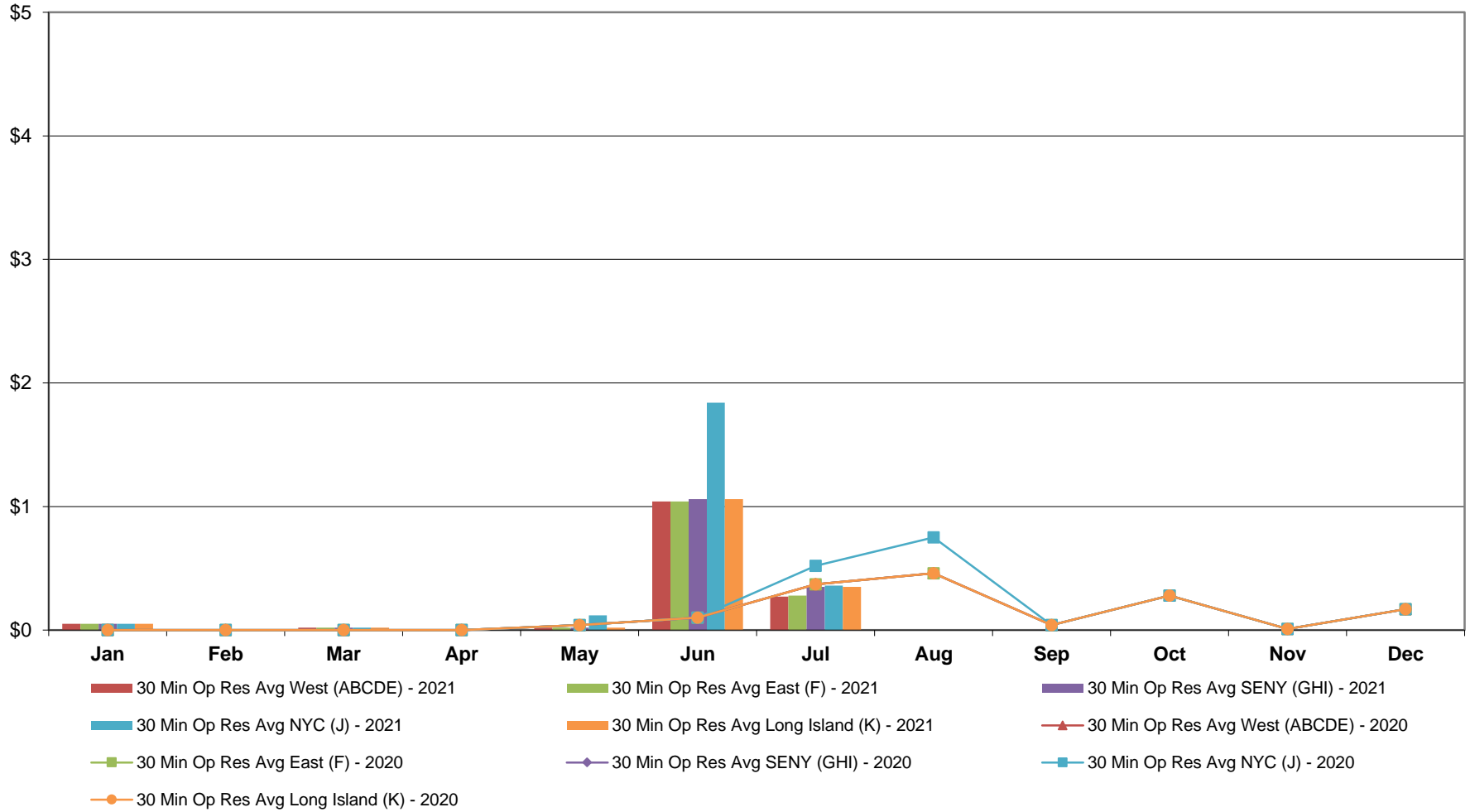
**NYISO Monthly Average Ancillary Service Prices
Real Time Market - 10 Min Spin 2020 - 2021**



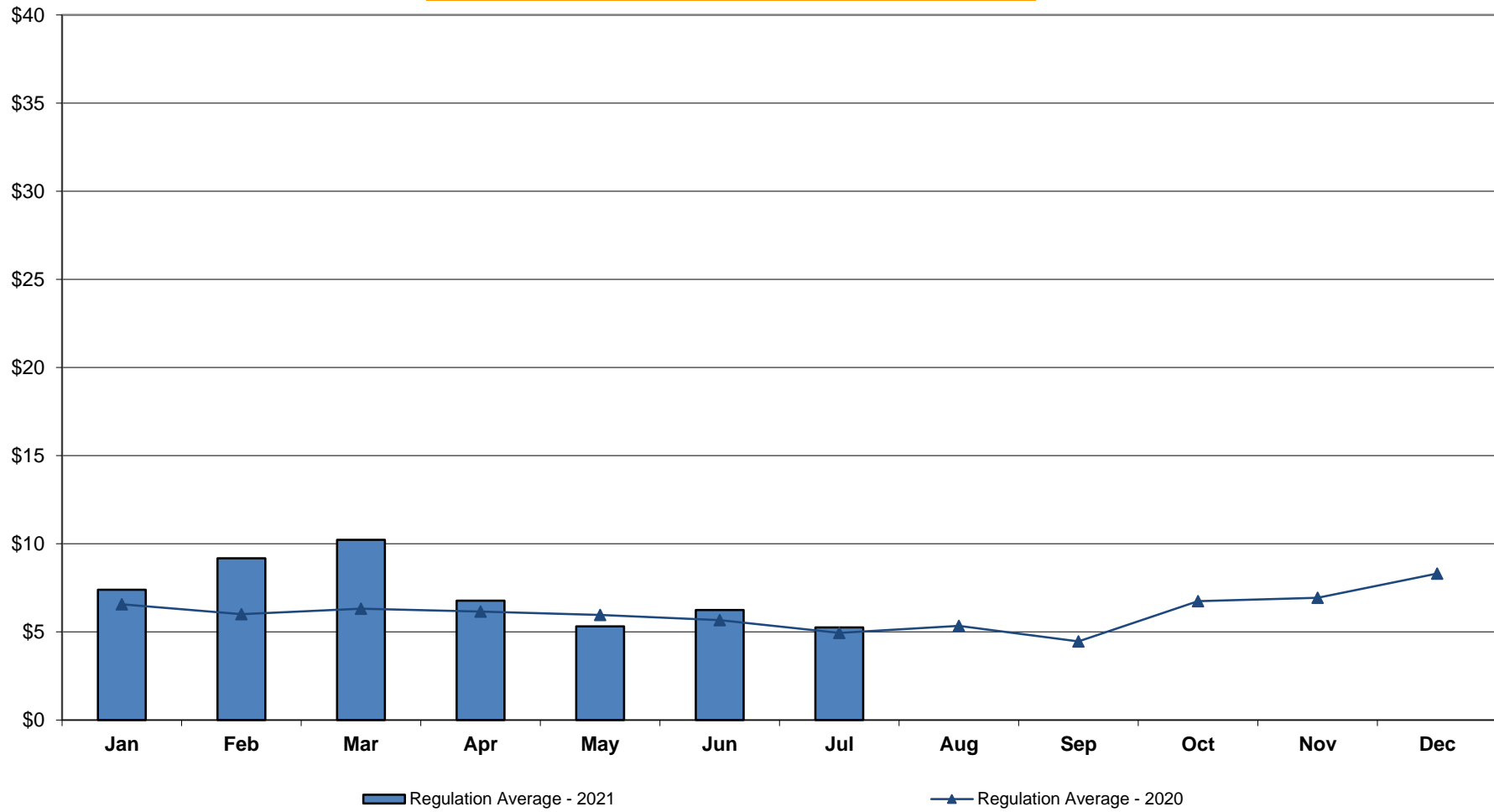
**NYISO Monthly Average Ancillary Service Prices
Real Time Market - 10 Min Non-Synch 2020 - 2021**



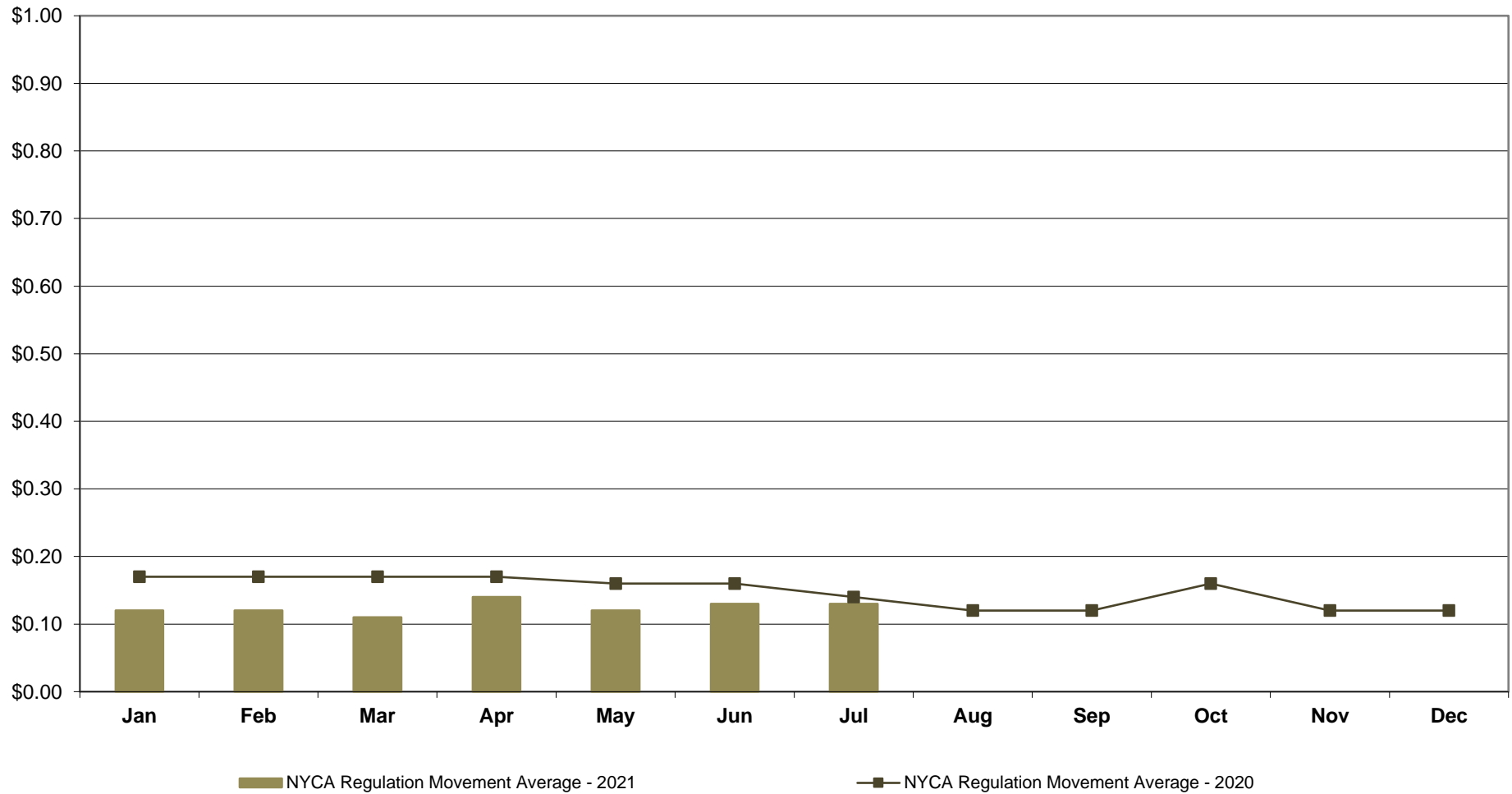
**NYISO Monthly Average Ancillary Service Prices
Real Time Market - 30 Min Op Res 2020 - 2021**



**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

<u>2021</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<u>Day Ahead Market</u>												
10 Min Spin Long Island (K)	4.61	7.85	4.46	3.80	3.78	3.91	3.80					
10 Min Spin NYC (J)	4.68	8.01	4.46	3.81	3.80	4.38	4.14					
10 Min Spin SENY (GHI)	4.61	7.85	4.46	3.80	3.78	3.91	3.80					
10 Min Spin East (F)	4.61	7.85	4.46	3.80	3.78	3.89	3.64					
10 Min Spin West (ABCDE)	4.01	6.68	4.07	3.56	3.43	3.64	3.40					
10 Min Non Synch Long Island (K)	3.32	5.58	3.60	3.25	3.27	3.47	3.46					
10 Min Non Synch NYC (J)	3.40	5.74	3.60	3.26	3.30	3.93	3.80					
10 Min Non Synch SENY (GHI)	3.32	5.58	3.60	3.25	3.27	3.47	3.46					
10 Min Non Synch East (F)	3.32	5.58	3.60	3.25	3.27	3.45	3.31					
10 Min Non Synch West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31	3.19					
30 Min Long Island (K)	3.22	5.25	3.57	3.19	3.17	3.33	3.34					
30 Min NYC (J)	3.23	5.25	3.57	3.19	3.18	3.53	3.40					
30 Min SENY (GHI)	3.22	5.25	3.57	3.19	3.17	3.33	3.34					
30 Min East (F)	3.22	5.25	3.57	3.19	3.17	3.31	3.19					
30 Min West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31	3.19					
Regulation	6.40	10.93	7.21	6.72	5.50	5.55	5.13					
<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>
<u>Day Ahead Market</u>												
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

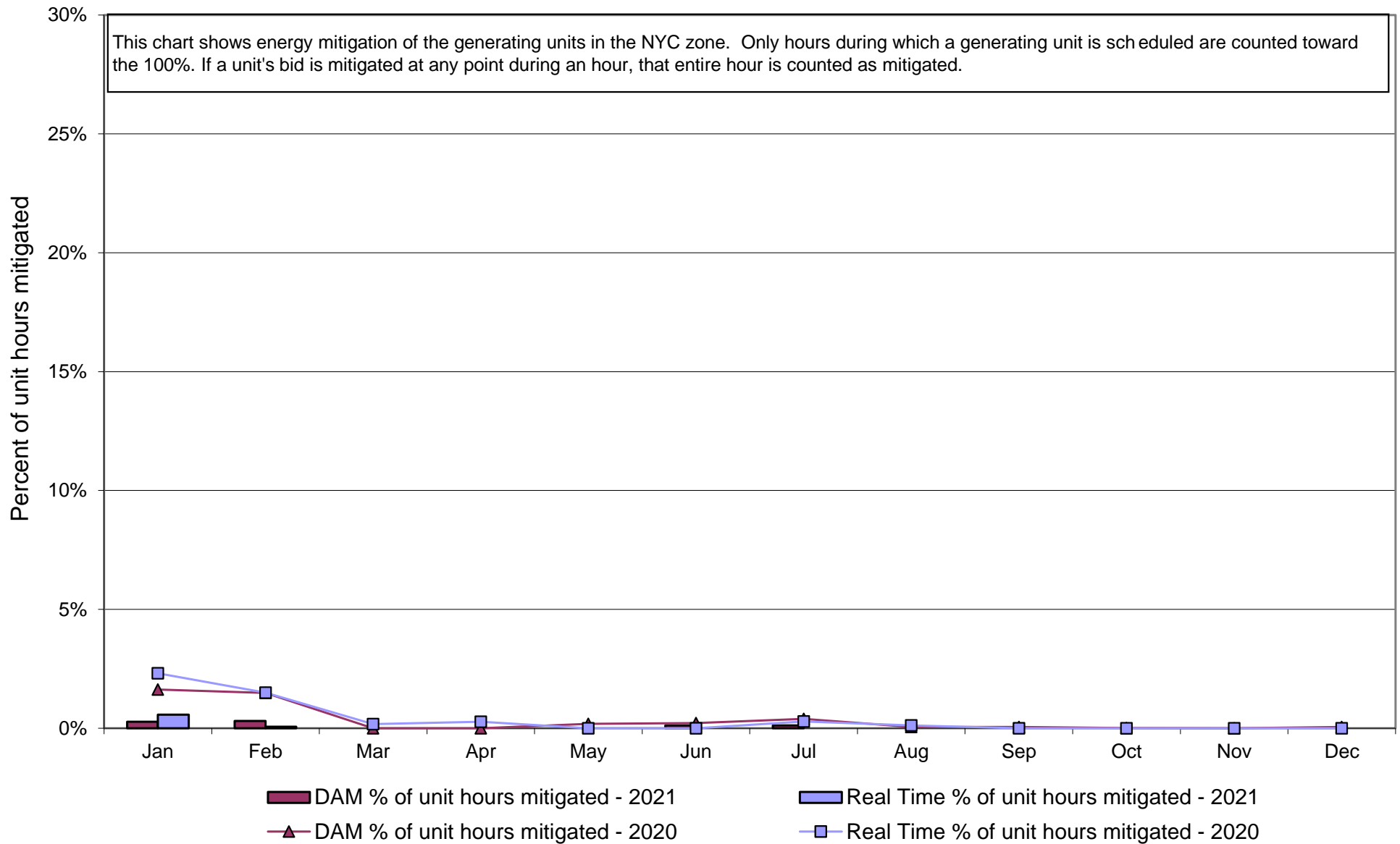
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RTC

<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>
RTC Market												
10 Min Spin Long Island (K)	1.65	1.53	1.29	0.58	0.61	2.86	1.25					
10 Min Spin NYC (J)	1.65	1.53	1.29	0.58	0.91	4.26	1.34					
10 Min Spin SENY (GHI)	1.65	1.53	1.29	0.58	0.61	2.86	1.25					
10 Min Spin East (F)	1.65	1.53	1.29	0.58	0.61	2.73	1.14					
10 Min Spin West (ABCDE)	1.16	0.93	0.88	0.22	0.07	1.51	0.32					
10 Min Non Synch Long Island (K)	0.49	0.00	0.02	0.00	0.05	2.40	1.11					
10 Min Non Synch NYC (J)	0.49	0.00	0.02	0.00	0.35	3.80	1.20					
10 Min Non Synch SENY (GHI)	0.49	0.00	0.02	0.00	0.05	2.40	1.11					
10 Min Non Synch East (F)	0.49	0.00	0.02	0.00	0.05	2.27	1.01					
10 Min Non Synch West (ABCDE)	0.26	0.00	0.01	0.00	0.00	1.42	0.30					
30 Min Long Island (K)	0.10	0.00	0.01	0.00	0.00	1.56	0.36					
30 Min NYC (J)	0.10	0.00	0.01	0.00	0.12	2.34	0.37					
30 Min SENY (GHI)	0.10	0.00	0.01	0.00	0.00	1.56	0.36					
30 Min East (F)	0.10	0.00	0.01	0.00	0.00	1.42	0.26					
30 Min West (ABCDE)	0.10	0.00	0.01	0.00	0.00	1.42	0.26					
Regulation	6.46	8.02	9.88	6.54	5.08	6.69	5.18					
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13	0.13					
2020	<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>
RTC Market												
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

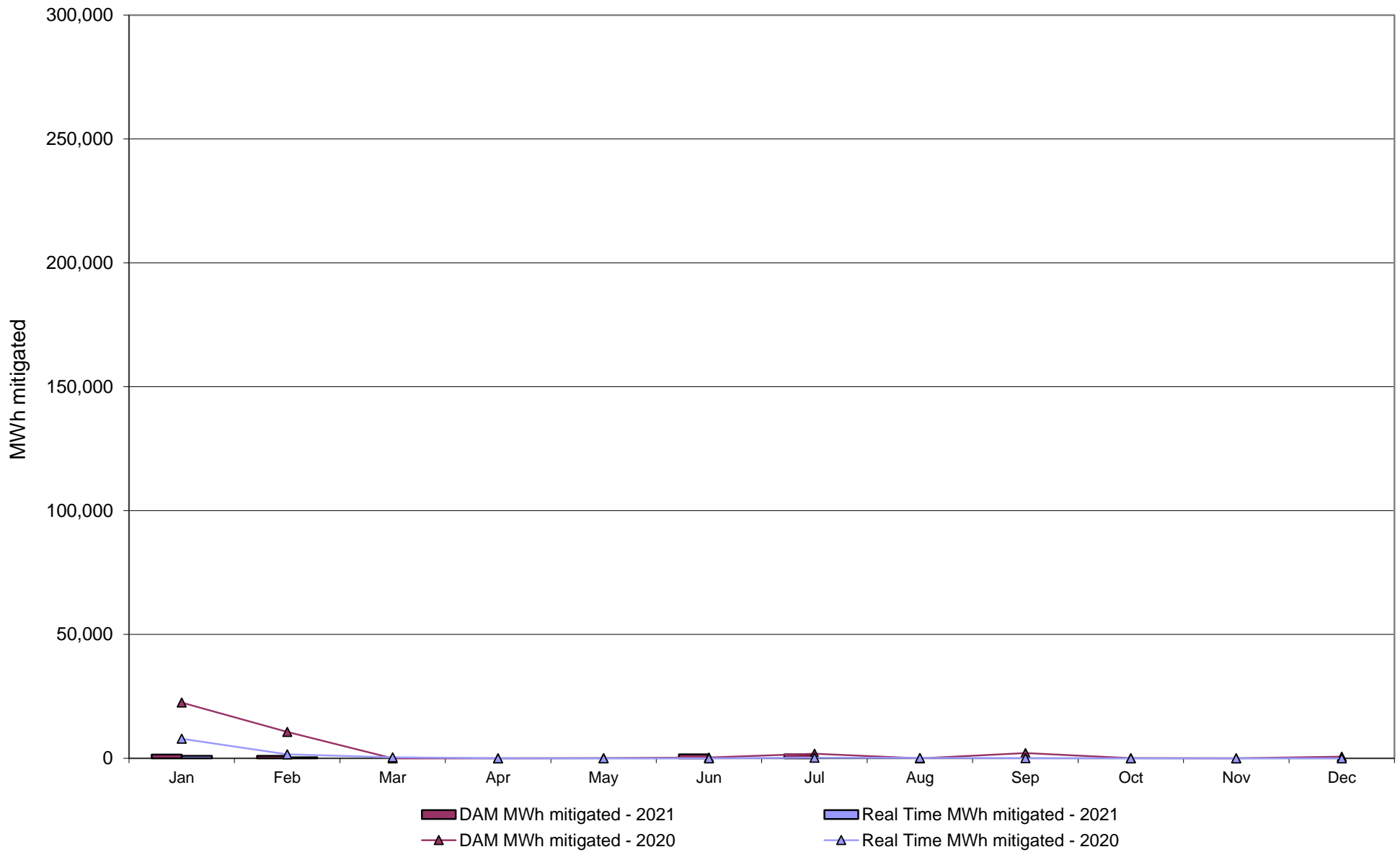
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

<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>
Real Time Market												
10 Min Spin Long Island (K)	3.75	2.96	3.57	1.51	0.90	2.38	1.67					
10 Min Spin NYC (J)	3.75	2.96	3.57	1.51	1.16	3.77	1.78					
10 Min Spin SENY (GHI)	3.75	2.96	3.57	1.51	0.90	2.38	1.67					
10 Min Spin East (F)	3.75	2.96	3.57	1.51	0.90	2.35	1.60					
10 Min Spin West (ABCDE)	2.64	2.03	2.78	0.49	0.15	1.25	0.39					
10 Min Non Synch Long Island (K)	1.13	0.02	0.03	0.12	0.16	1.68	1.44					
10 Min Non Synch NYC (J)	1.13	0.02	0.03	0.12	0.42	3.07	1.56					
10 Min Non Synch SENY (GHI)	1.13	0.02	0.03	0.12	0.16	1.68	1.44					
10 Min Non Synch East (F)	1.13	0.02	0.03	0.12	0.16	1.65	1.38					
10 Min Non Synch West (ABCDE)	0.40	0.00	0.02	0.00	0.02	1.04	0.27					
30 Min Long Island (K)	0.05	0.00	0.02	0.00	0.02	1.06	0.35					
30 Min NYC (J)	0.05	0.00	0.02	0.00	0.12	1.84	0.36					
30 Min SENY (GHI)	0.05	0.00	0.02	0.00	0.02	1.06	0.35					
30 Min East (F)	0.05	0.00	0.02	0.00	0.02	1.04	0.28					
30 Min West (ABCDE)	0.05	0.00	0.02	0.00	0.02	1.04	0.27					
Regulation	7.39	9.17	10.23	6.78	5.31	6.24	5.25					
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13	0.13					
2020	<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>
Real Time Market												
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

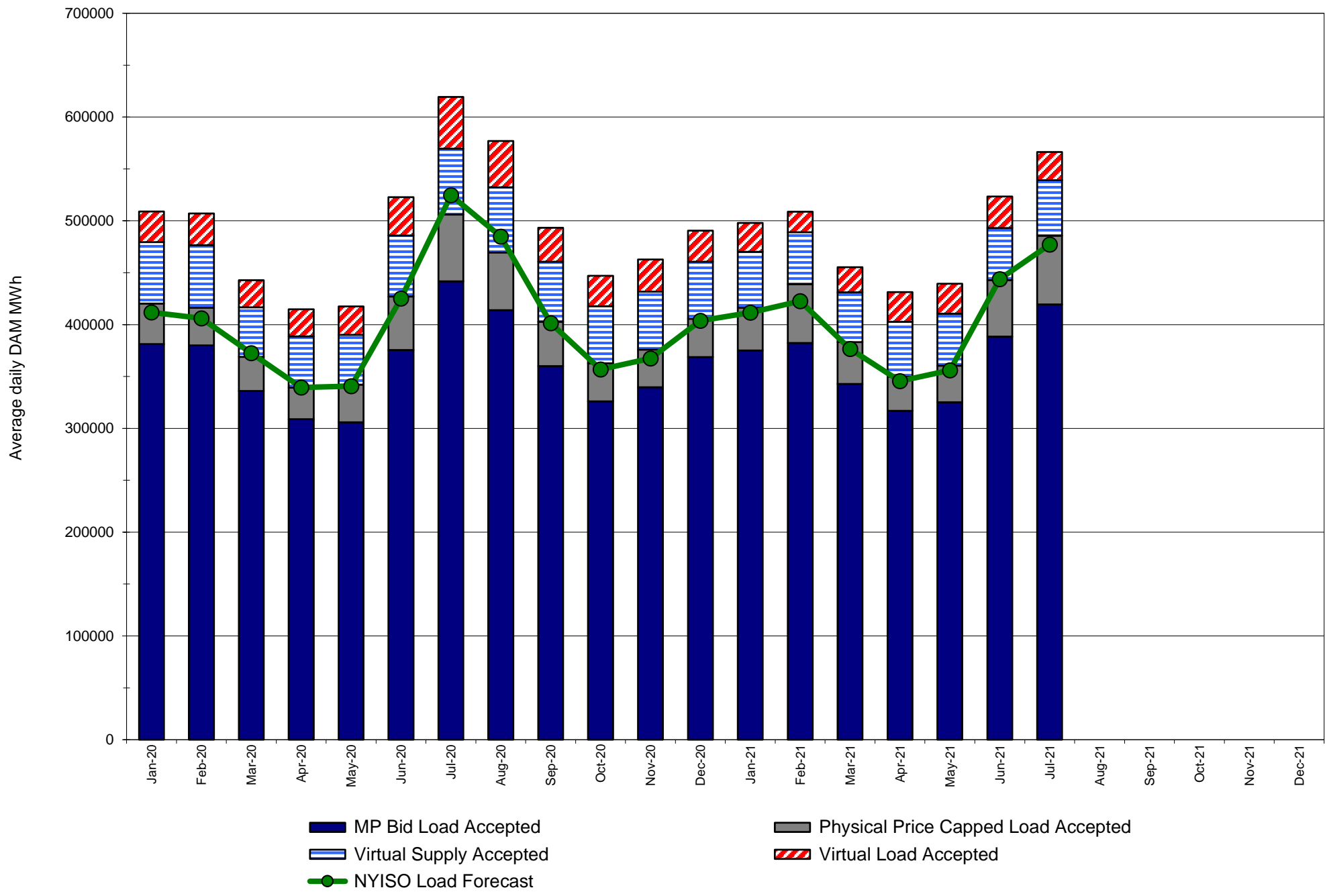
NYISO In City Energy Mitigation - AMP (NYC Zone) 2020 - 2021 Percentage of committed unit-hours mitigated



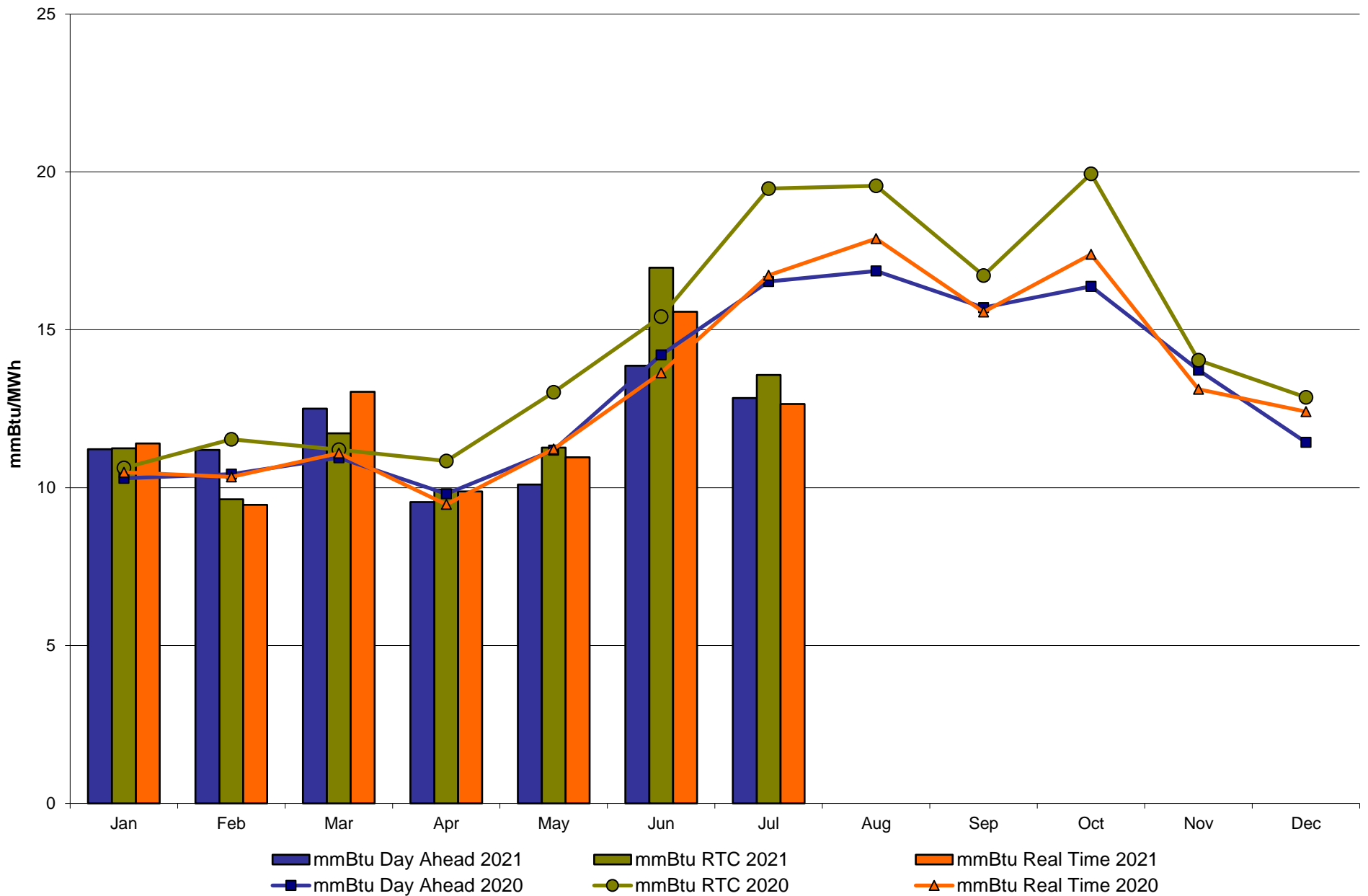
NYISO In City Energy Mitigation (NYC Zone) 2020 - 2021
Monthly megawatt hours mitigated



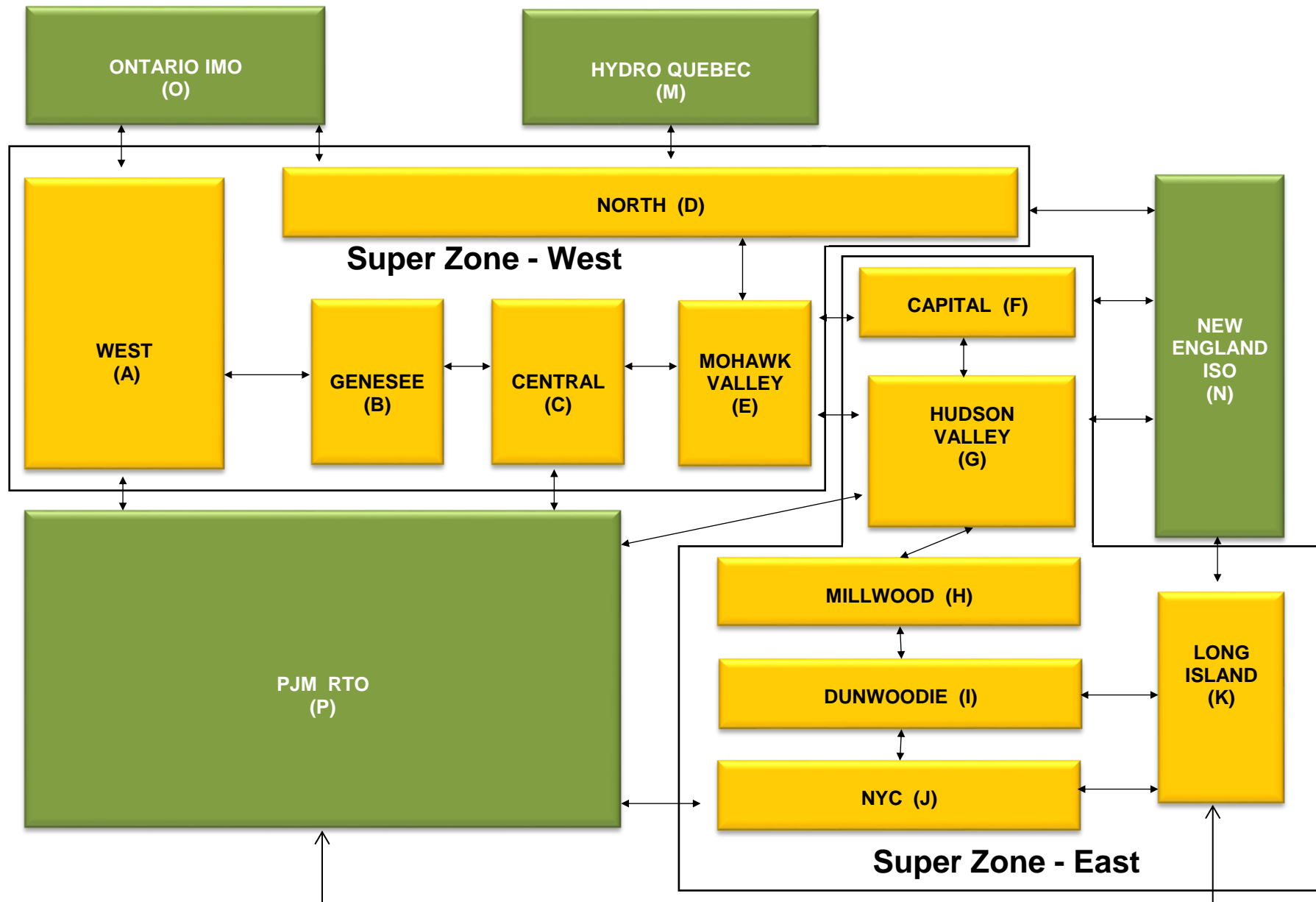
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2020-2021



NYISO LBMP ZONES



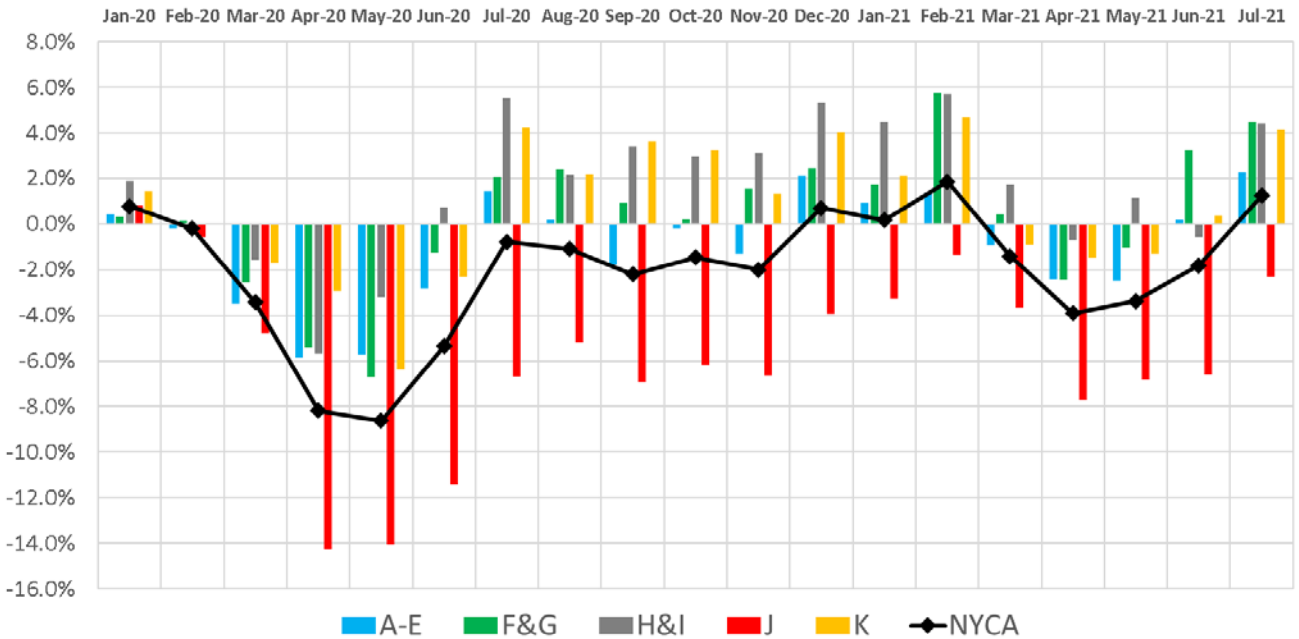
Billing Codes for Chart C

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

COVID-19: Estimated Load Impacts

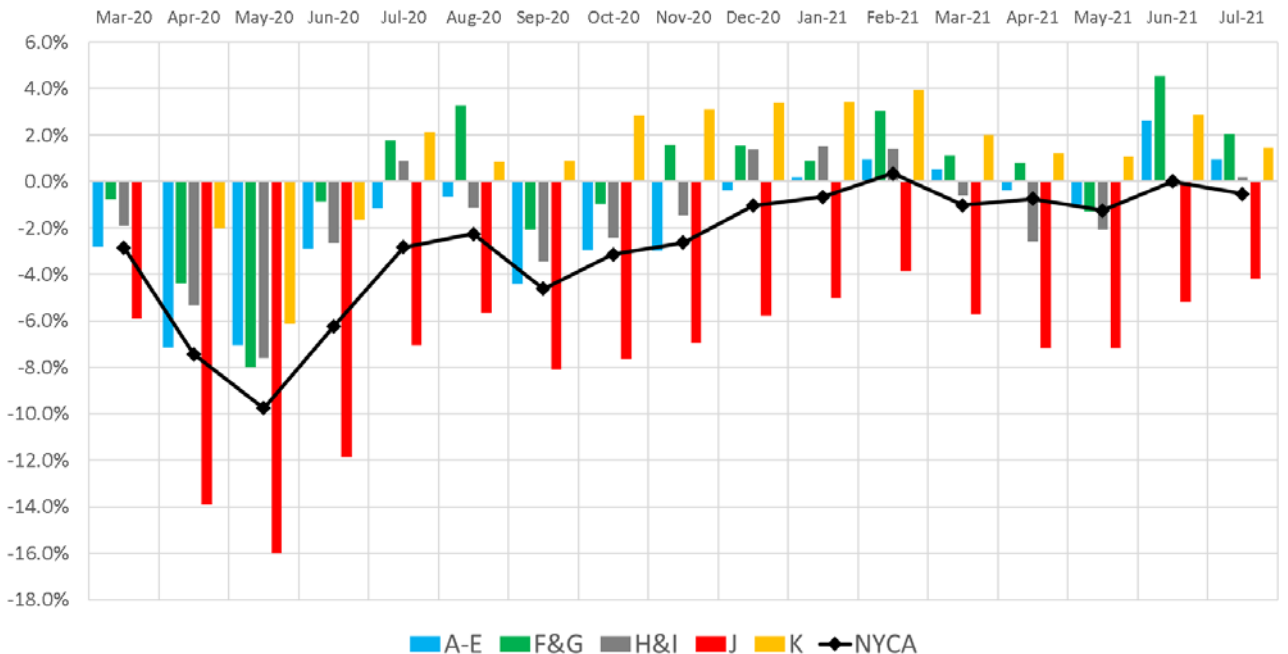
Regional Energy Impacts*

Weather Normalized Monthly Energy Use - % Versus Expected (Areas)

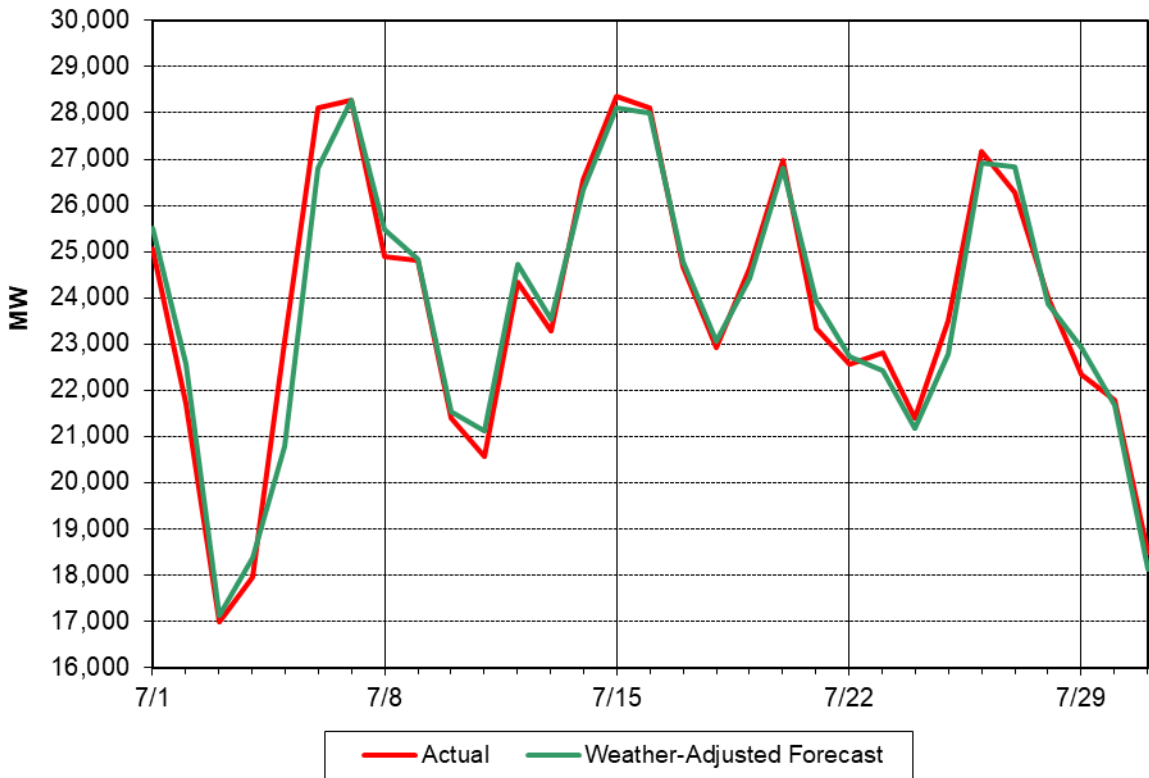


Regional Peak Impacts

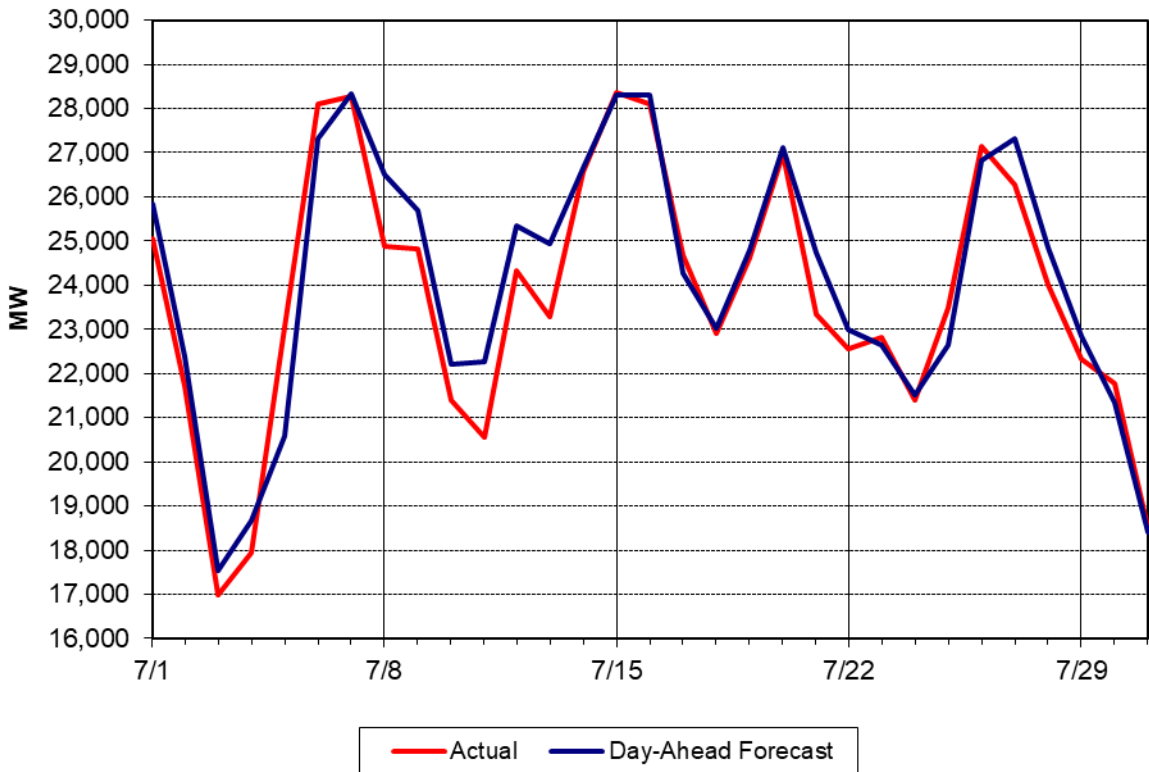
Monthly Peak Demand - % Versus Expected (Areas)



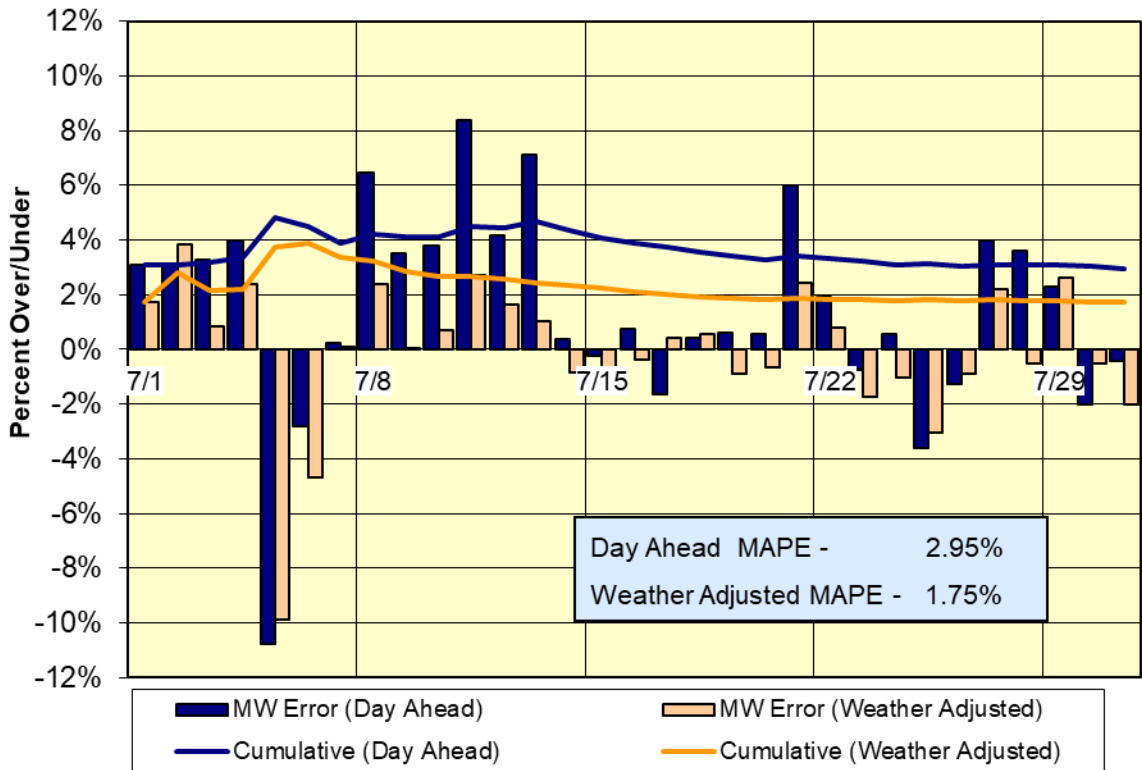
**NYISO Daily Peak Load - July 2021
Actual vs. Weather-Adjusted Forecast**



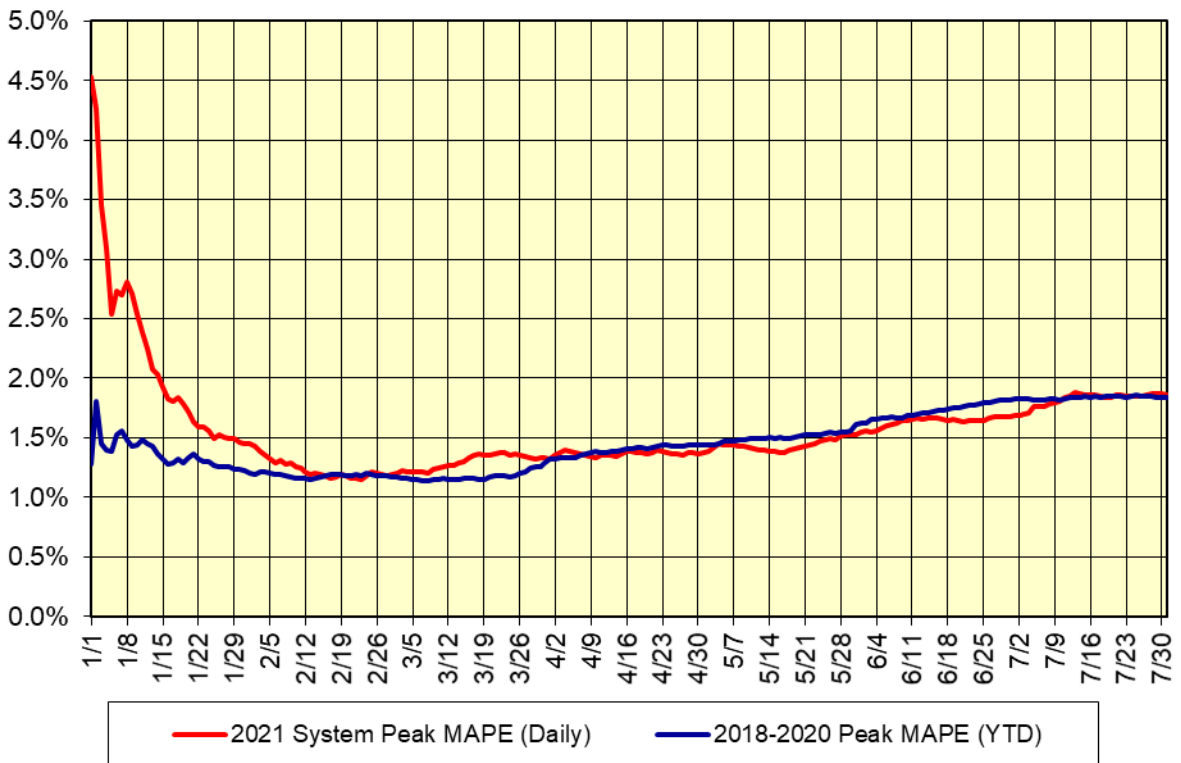
**NYISO Daily Peak Load - July 2021
Actual vs. Forecast**



Day Ahead Peak Forecast - July 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 – July 2021**

Filing Date	Filing Summary	Docket	Order Summary	Order Date
05/27/2021	NYISO-NYSEG Joint section 205 filing of a Small Generator Interconnection Agreement among NYISO, NYSEG and Orangeville Energy	ER21-2015-000	Letter order accepted the filing, effective 5/20/21 as requested	07/23/2021
05/27/2021	NYISO compliance filing of tariff revisions to clarify that municipally owned electric systems created by local governments are eligible for the self-supply exemption	ER16-1404-008	Order accepting the filing, effective 2/20/2021 as requested	07/27/2021
06/08/2021	NYISO Section 205 filing of tariff revisions reflecting the results of its post-ICAP DCR review of exempt renewable technologies	ER21-2098-000	Order accepting the filing, effective 8/9/2021 as requested	07/27/2021
06/29/2021	NYISO compliance notice of effective date and filing of tariff revisions relating to Operating Reserve Demand Curves	ER21-1018-002	Order accepting the filing, effective 7/13/2021 as requested	07/28/2021
07/01/2021	NYISO Section 205 filing of tariff revisions to change the Regulation Movement Multiplier factor in the Services Tariff from 13 to 8	ER21-2326-000		
07/15/2021	NYISO filing of a doc-less motion to intervene re: the Joint Federal-State Task Force on Electric Transmission	AD21-15-000		
07/16/2021	NYISO filing of a motion to intervene and comment on a Viridity request for waiver of a tariff-imposed deadline to submit Special Case Resource performance data to the NYISO	ER21-2395-000		
07/19/2021	NYISO compliance filing of tariff revisions directed by FERC Order No. 2222 re: Distributed Energy Resource aggregation participation in RTO/ISO markets	ER21-2460-000, RM18-9-2021		
07/19/2021	NYISO filing of a report responding to the Commission's questions on Hybrid Storage Resources	AD20-9-000		
07/23/2021	NYISO compliance notice of an August 6, 2021 effective date for OATT revisions to implement certain enhancements to its credit requirements for Transmission Congestion Contracts	ER21-846-001		
07/26/2021	NYISO filing of comments in response to a Long Island Power Authority request for waiver of a dispatch limit obligation	ER21-2400-000		
07/26/2021	NYISO filing of comments in response to a Helix Ravenswood request for clarification re: scope of a Commission Order Granting Waiver	ER20-323-000		

07/27/2021	NYISO compliance filing of tariff revisions directed by FERC Order No. 676 re: Standards for Business Practices and Communication Protocols for Public Utilities	ER21-2526-000		
07/28/2021	NYISO-NYSEG joint Section 205 filing of a Transmission Project Interconnection Agreement among the NYISO, NYSEG, and NextEra Energy Transmission New York for the Empire State Line	ER21-2534-000		
07/29/2021	NYISO-RG&E joint filing of an Engineering, Procurement, and Construction Agreement among the NYISO, RG&E, and NextEra Energy Transmission New York for the Empire State Line	ER21-2546-000		
07/29/2021	NYISO filing of an Electric Quarterly Report (EQR) re: data on electric power contracts and wholesale power sales during the most recent calendar quarter	ER02-2001-000		