

# **Monthly Report**

A Report by the New York Independent System Operator

February 2021



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# Operations Performance Metrics Monthly Report









# February 2021 Report

# Operations & Reliability Department New York Independent System Operator



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## **February 2021 Operations Performance Highlights**

- Peak load of 21,746 MW occurred on 02/08/2021 HB 18
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 0 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- A Major Emergency was declared on 02/10/2021 in HB01 for the trip of the New Scotland 345kV #77k bus, disconnecting the New Scotland-Alps 345kV (#2), New Scotland-Leeds 345kV (#93), Edic-New Scotland 345kV (#14) from service, causing the power flow on Central East VC to exceed 105% of its voltage transfer limit.
- NYISO began securing the Regeneron-Greenbush 115kV (#9) facility in the Real-Time
   Market on 02/11/2021 and in the Day-Ahead Market execution occurring on 02/12/2021 for
   the 02/13/2021 market day.
- 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.

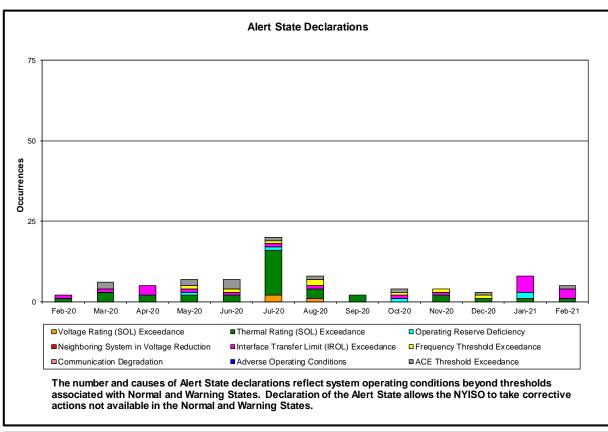
	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$2.48	\$3.66
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$1.17	\$1.45
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$2.71)	(\$1.59)
Total NY Savings	\$0.94	\$3.52
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.51	\$0.97
Regional Savings from NE-NY Coordinated Transaction Scheduling	(\$0.47)	(\$0.34)
Total Regional Savings	\$0.04	\$0.63

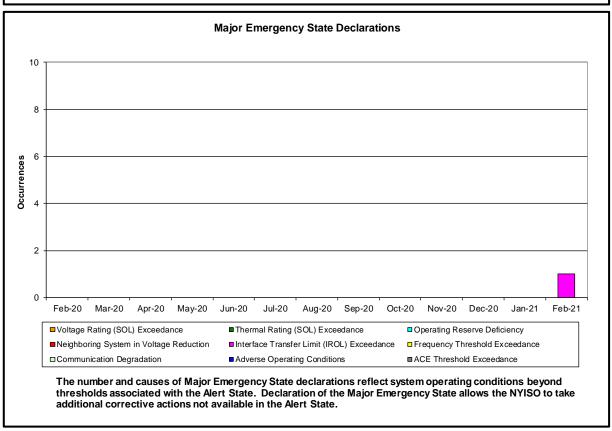
- Statewide uplift cost monthly average was (\$0.30)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
March 2021 Spot Price	\$0.89	\$0.89	\$8.71	\$0.89
February 2021 Spot Price	\$0.89	\$0.89	\$8.76	\$0.89
Delta	\$0.00	\$0.00	(\$0.05)	\$0.00

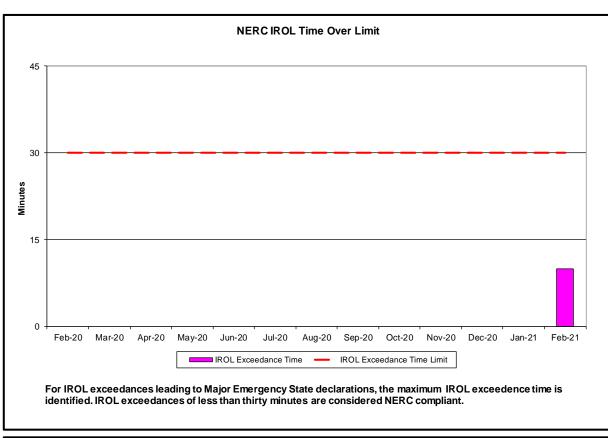


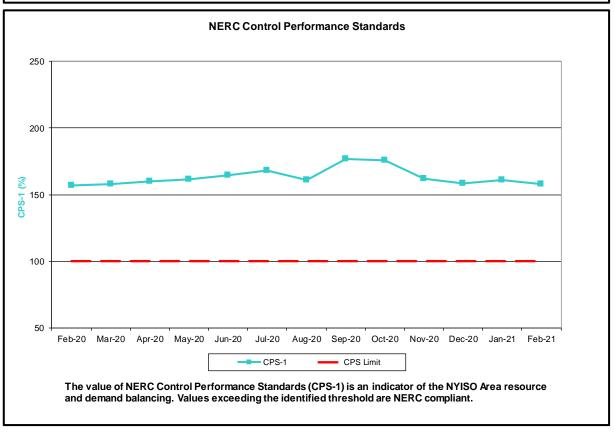
### **Reliability Performance Metrics**



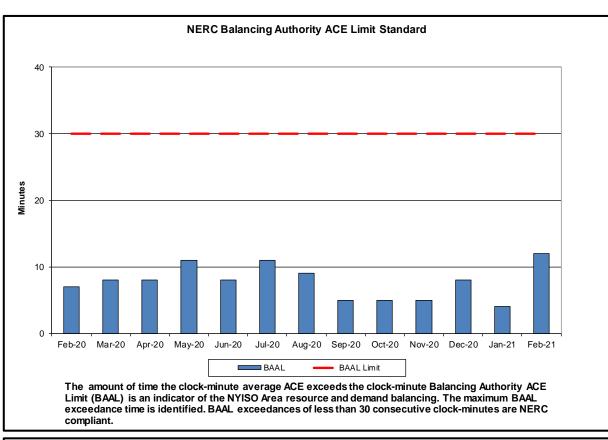


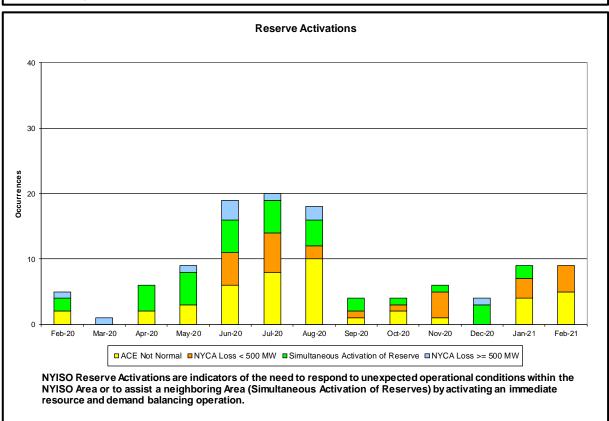




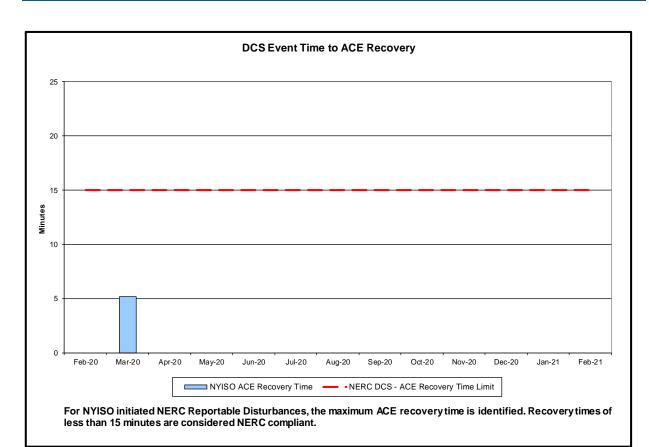


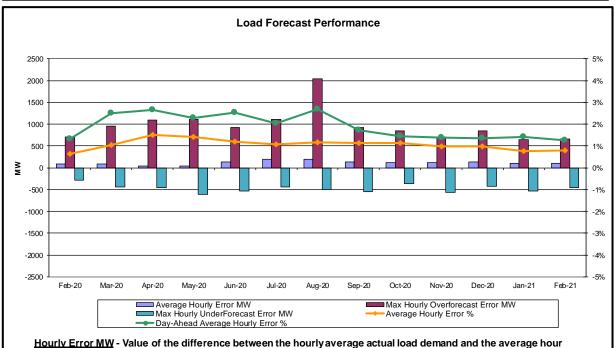












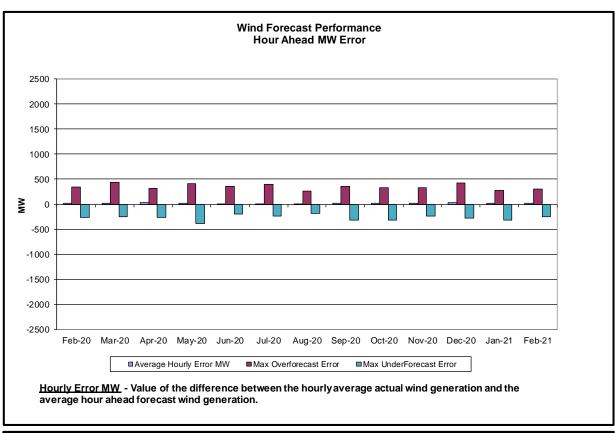
Average Hourly Error % - Average value of the ratio of hourly average error magnitude to hourly average actual

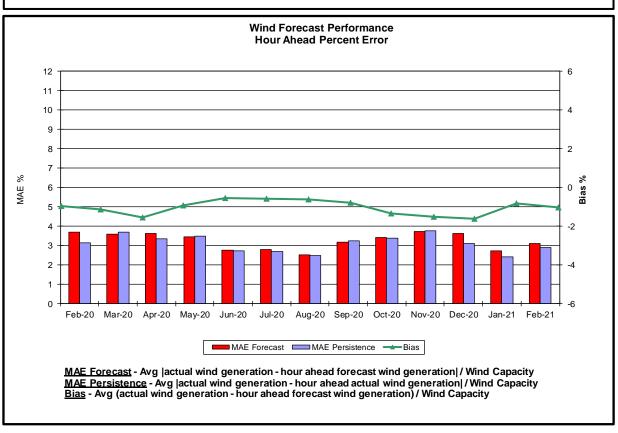
<u>Day-Ahead Average Hourly Error %</u> - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

ahead forecast load demand.

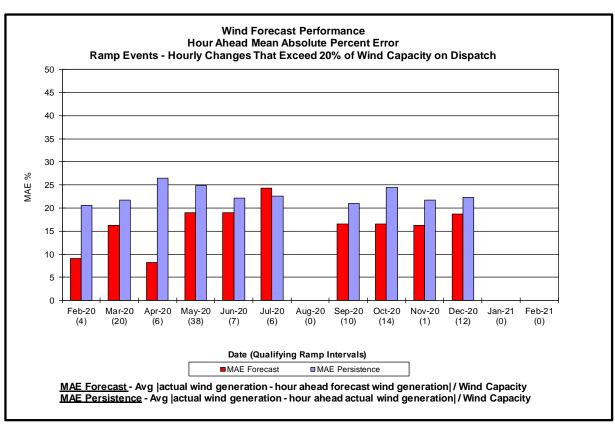
load demand.

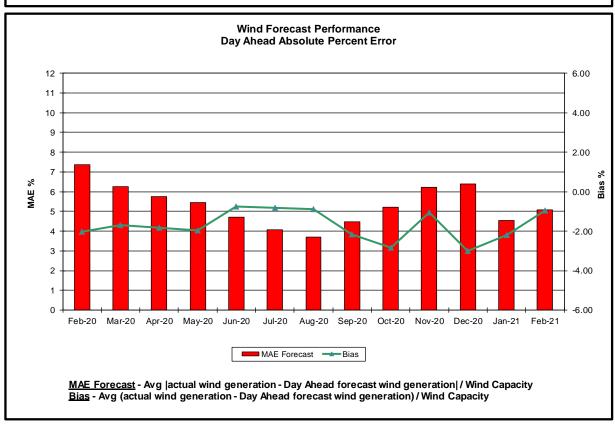




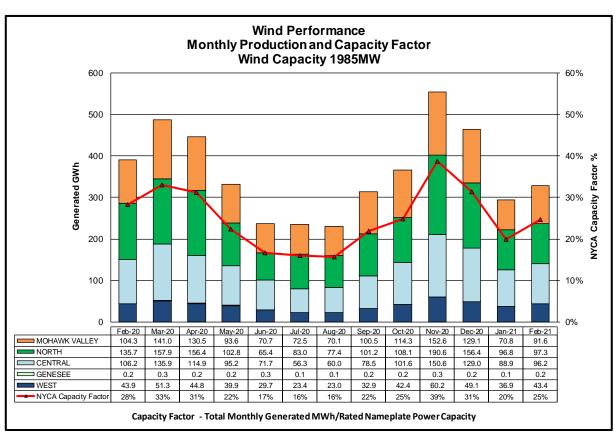


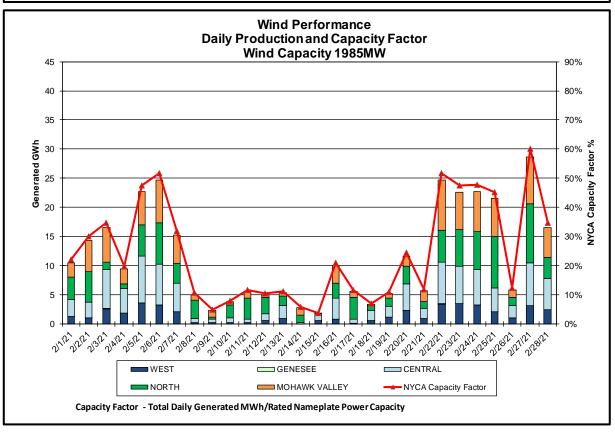




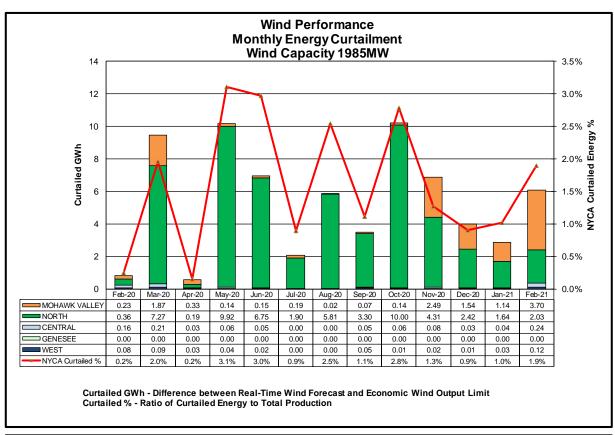


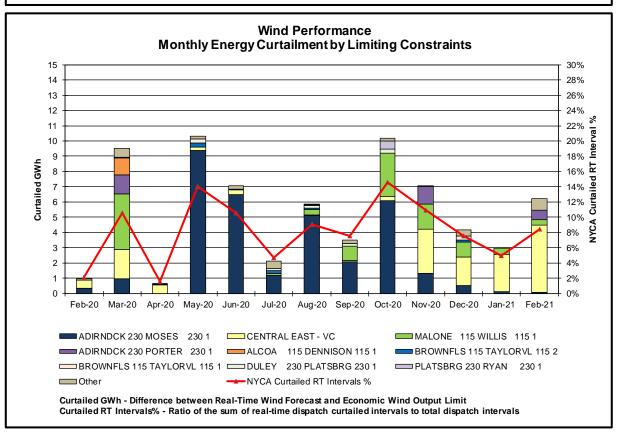




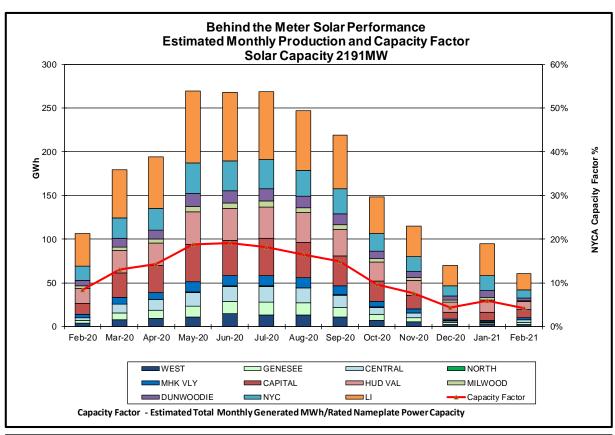


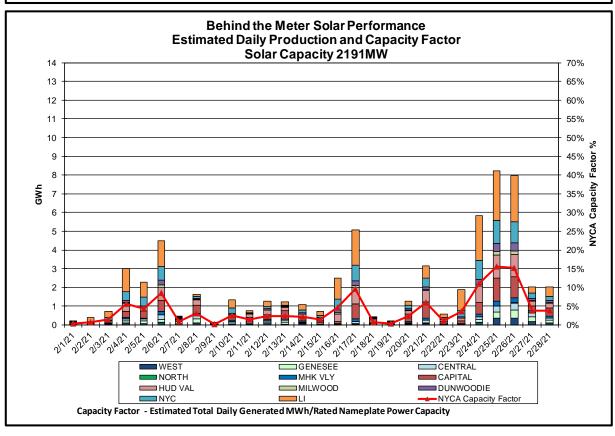




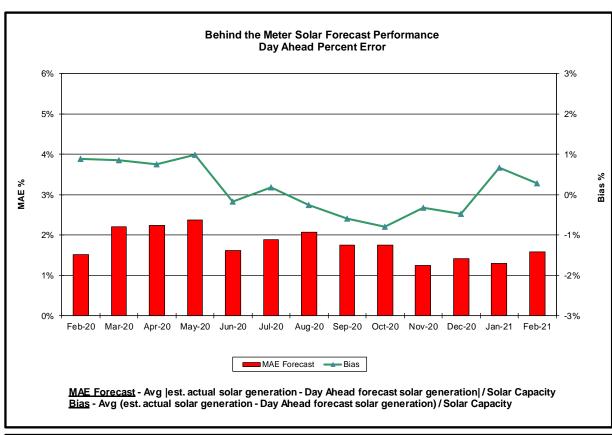


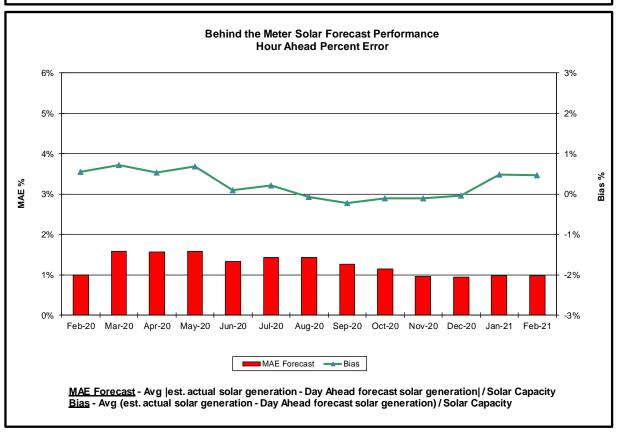




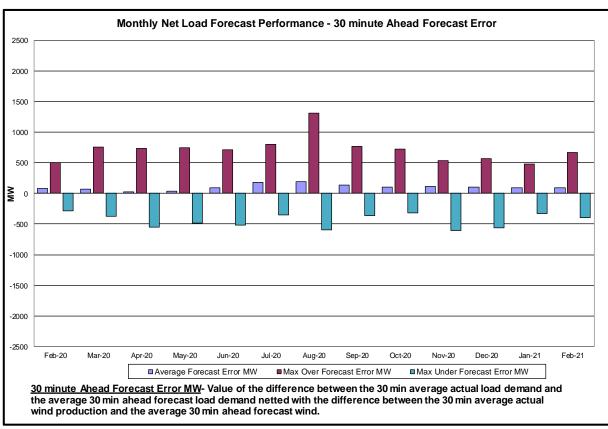


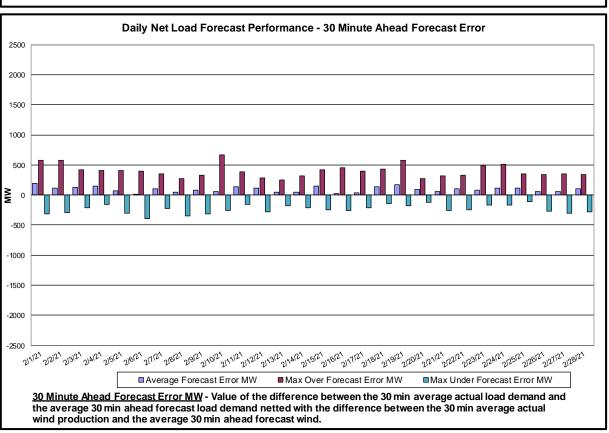




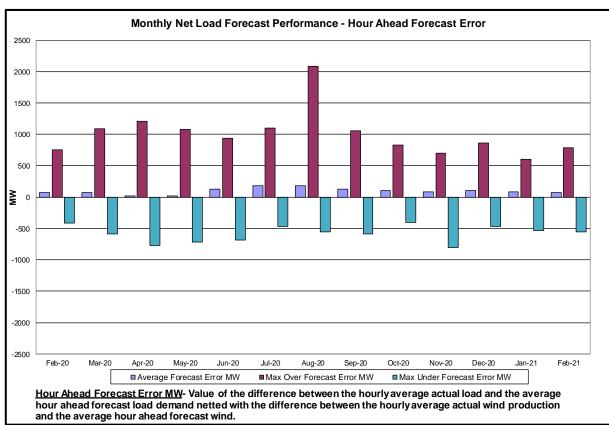


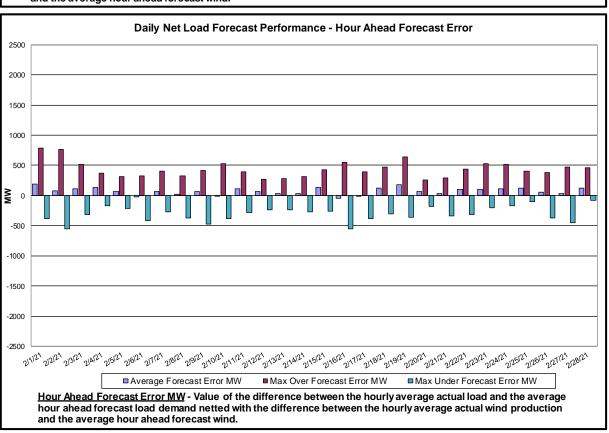




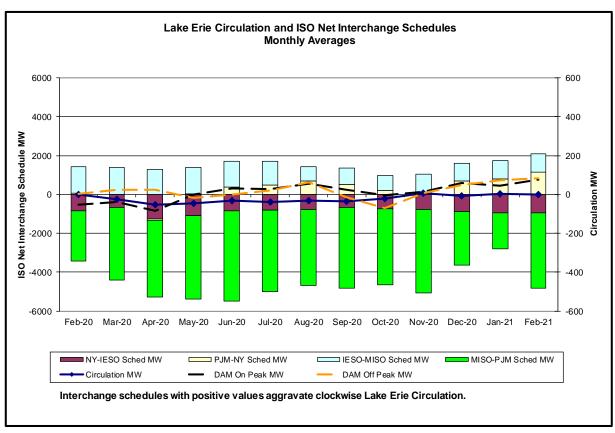


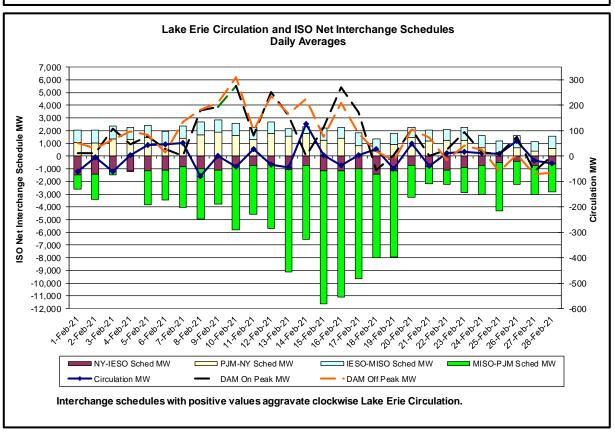






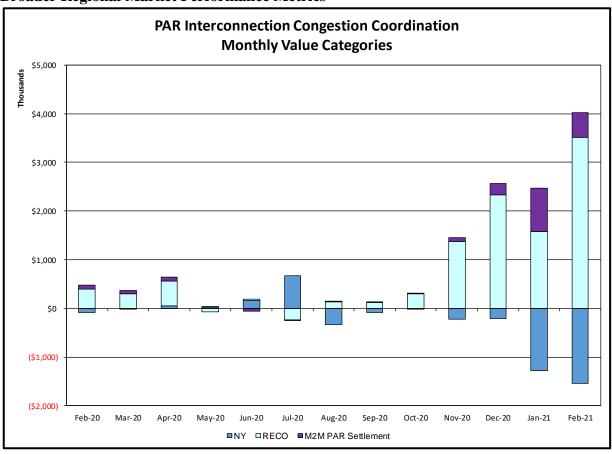


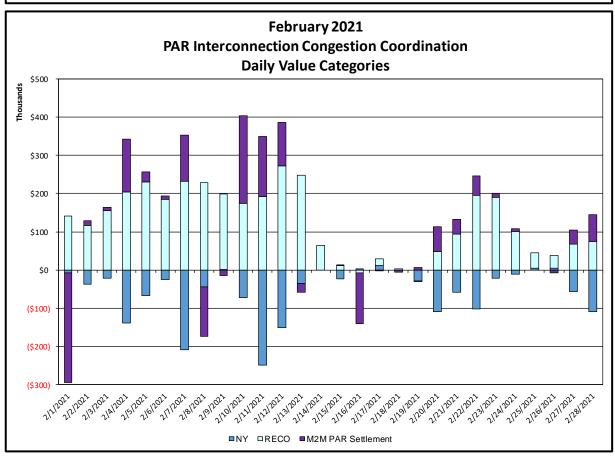






### **Broader Regional Market Performance Metrics**







#### 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

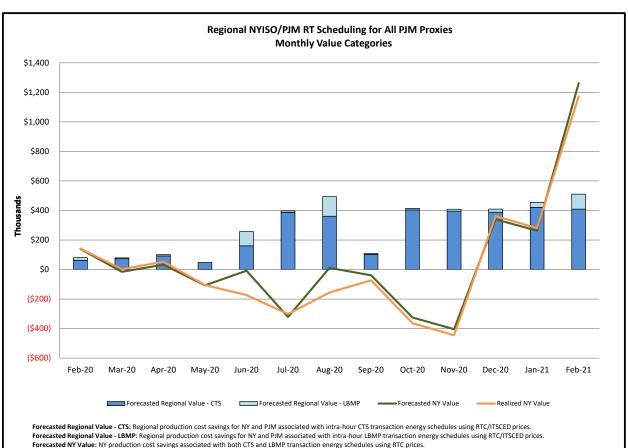
of RECO over Ramapo 5018.

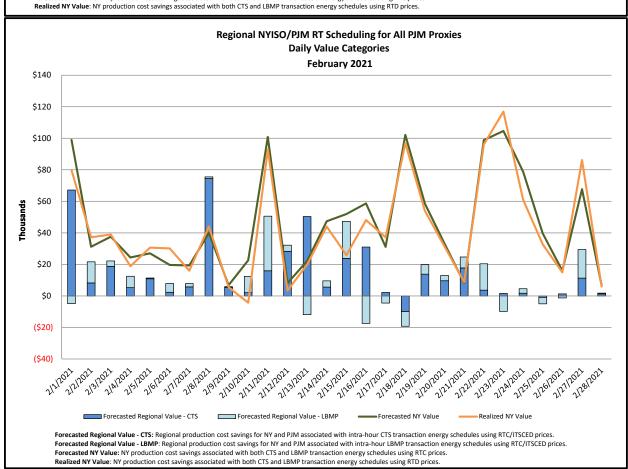
M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017

this value was included in the NY and RECO categories. The positive sign convention

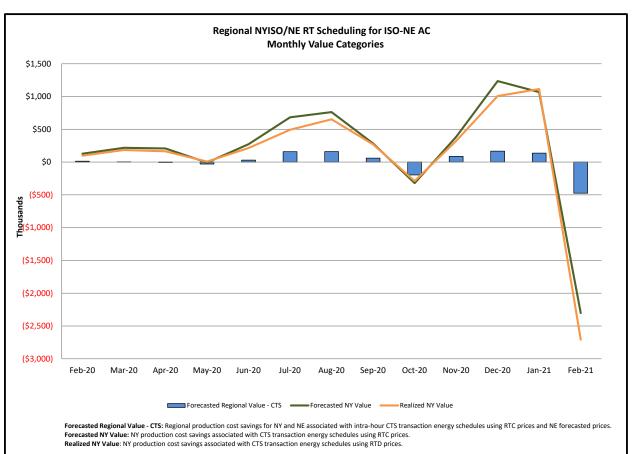
indicates settlement to NY while the negative indicates settlement to PJM.

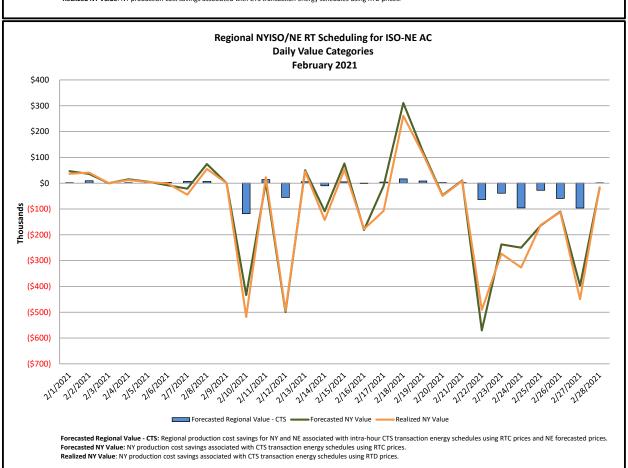


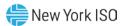




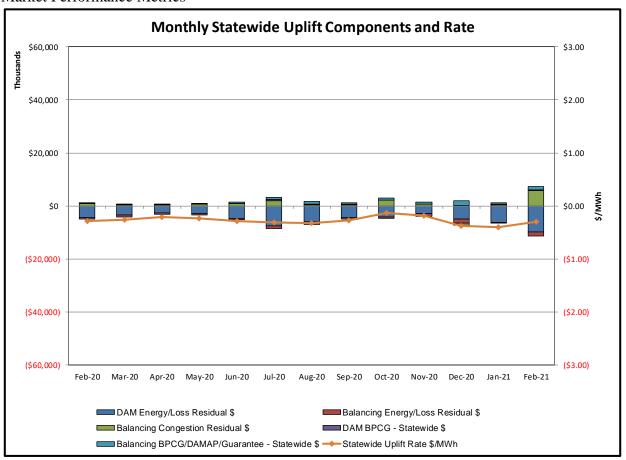




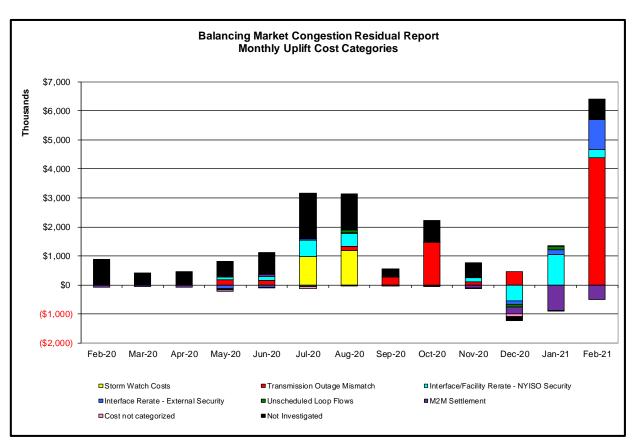


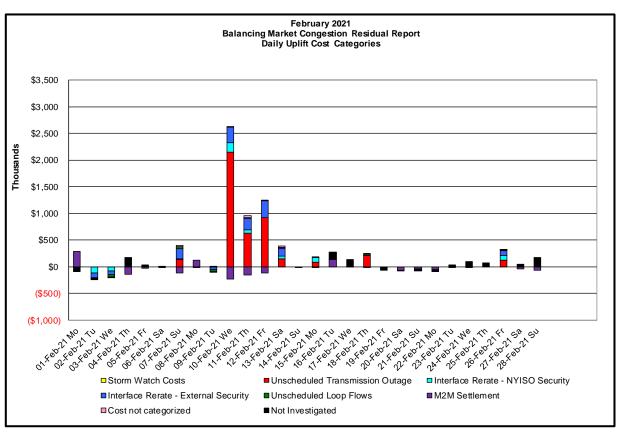


## Market Performance Metrics











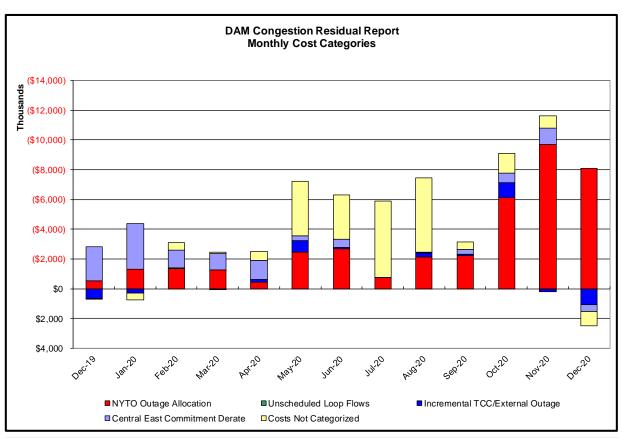
		<u>2,3,7,9,10,11,12,13,15,18,</u>	
nt	7777	Hours	Description
	2/2/2021		NYCA DNI Ramp Limit
	2/2/2021	0-3,6-10,12-14,17-23	
	2/2/2021		Uprate Freshkills-Willowbrook 138kV (#29211)
	2/2/2021		NE_AC - NY Scheduling Limit
	2/2/2021		IESO_AC - NY Scheduling Limit
	2/2/2021		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	2/2/2021		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	2/3/2021		Uprate Central East
	2/3/2021		Uprate Freshkills-Willowbrook 138kV (#29211)
	2/3/2021		Uprate East 179th Street-Hell Gate 138kV (#15055)
	2/3/2021		NE_AC - NY Scheduling Limit
	2/3/2021	1,2,4,6,10,14,18	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	2/7/2021	18-20	Forced outage of New Scotland-Leeds 345kV (#93)
	2/7/2021	18-20	Forced outage of Edic-New Scotland 345kV (#14)
	2/7/2021	22,23	Derate Central East
	2/7/2021	10,15,17	Uprate Central East
	2/7/2021		Uprate Freshkills-Willowbrook 138kV (#29211)
	2/7/2021		NE_AC ACTIVE DNI Ramp Limit
	2/7/2021		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	2/9/2021		Uprate Central East
	2/9/2021		Derate Dunwoodie-Shore Road 345kV (#Y50)
	2/9/2021		NE_NNC1385 - NY Scheduling Limit
	2/9/2021		HQ_CHAT-NY Scheduling Limit
	2/9/2021		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	2/10/2021		Forced outage of Edic-New Scotland 345kV (#14)
	2/10/2021		NYCA DNI Ramp Limit
	2/10/2021		Derate New Scotland 345/115kV (BK 1) for I/0 BUS:ROTTRDM 31&38&BK7&C
			NE_AC DNI Ramp Limit
	2/10/2021		
	2/10/2021		PJM_AC DNI Ramp Limit
_	2/11/2021		Forced outage of Edic-New Scotland 345kV (#14)
	2/11/2021		NYCA DNI Ramp Limit
	2/11/2021		Uprate Central East
	2/11/2021		NE_NNC1385 - NY Scheduling Limit
	2/11/2021		PJM_AC DNI Ramp Limit
	2/11/2021		NE_AC DNI Ramp Limit
	2/11/2021		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	2/12/2021		Forced outage of Edic-New Scotland 345kV (#14)
	2/12/2021		HQ_CEDARS - NY Scheduling Limit
	2/12/2021		HQ_CHAT-NY Scheduling Limit
	2/12/2021		NE_AC DNI Ramp Limit
	2/13/2021		Forced outage of Edic-New Scotland 345kV (#14)
	2/13/2021		Extended outage Sprainbrook-East Garden City 345kV (#Y49)
	2/13/2021		NYCA DNI Ramp Limit
	2/13/2021	9-16,18	HQ_CEDARS - NY Scheduling Limit
	2/13/2021		HQ_CHAT-NY Scheduling Limit
	2/13/2021	17	NE_NNC1385 - NY Scheduling Limit
	2/13/2021	0	NE_AC DNI Ramp Limit
	2/15/2021		Forced outage East 13th Street-Farragut 345kV (#46)
	2/15/2021	23	NYCA DNI Ramp Limit
	2/15/2021		Derate Greenbush-Regeneron 115kV (#9)
	2/18/2021		Forced outage East 13th Street-Farragut 345kV (#46)
	2/18/2021		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	2/26/2021		Forced outage Chateaugay DC Converter GC1
	2/26/2021		Forced outage Hopatcong-Ramapo 500kV (#5018)
	2/26/2021		NYCA DNI Ramp Limit
	2/26/2021		Derate Central East
	2/26/2021		Derate Greenbush-Regeneron 115kV (#9)
	2/26/2021		Derate Packard 230/115 Bk3 for I/o TWR:PACKARD 77 & 78
	2/26/2021		NE_NNC1385 - NY Scheduling Limit
	2/26/2021		NE_AC DNI Ramp Limit Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	2/26/2021		

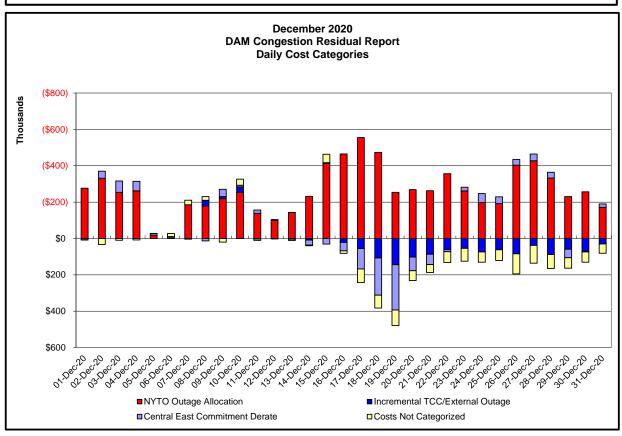


<u>Category</u> Storm Watch	Cost Assignment Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	Event Examples TSA Activations
		` '	
Transmission Outage Mismatch	Market-wide	Changes in DAM to RTM transfers related to transmission outage mismatch	Forced Line Outage, Unit AVR Outages Early Line Return from Outage
Interface/Facility Rerate - NYISO Security	Market-wide	Changes in DAM to RTM transfers not related to transmission outage	Interface/Facility Rerate 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	

 $3) \, Uplift \, costs \, associated \, with \, multiple \, event \, types \, are \, apportioned \, equally \, by \, hour \, apportunity \, and \, by \, apportunity \, appo$ 



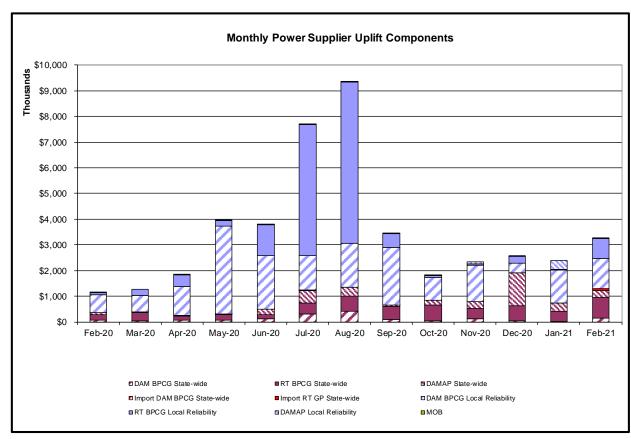


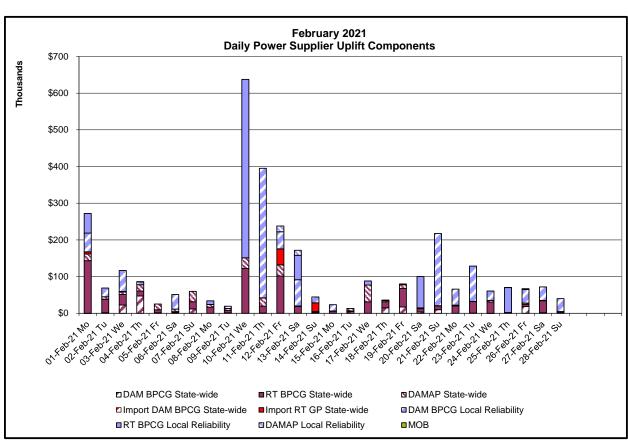




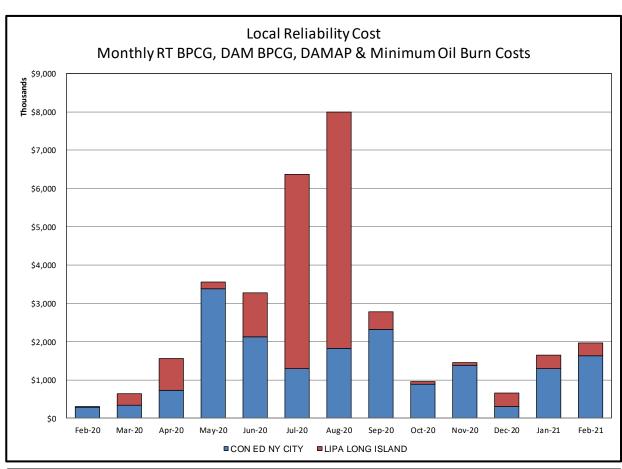
Day-Ahead Market Congestion Residual Categories			
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples DAM scheduled outage for equipment modeled inservice for 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.	

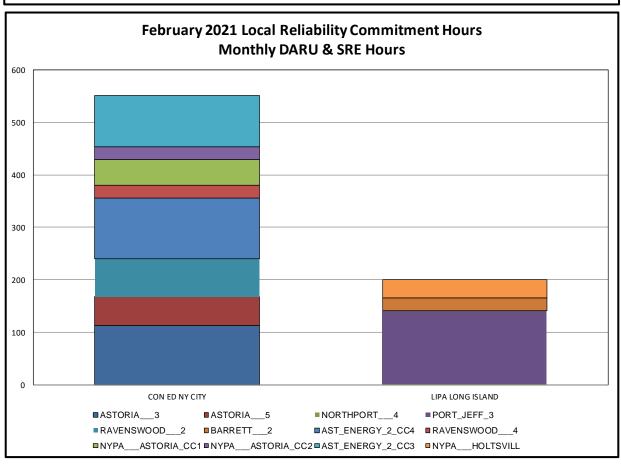


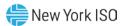


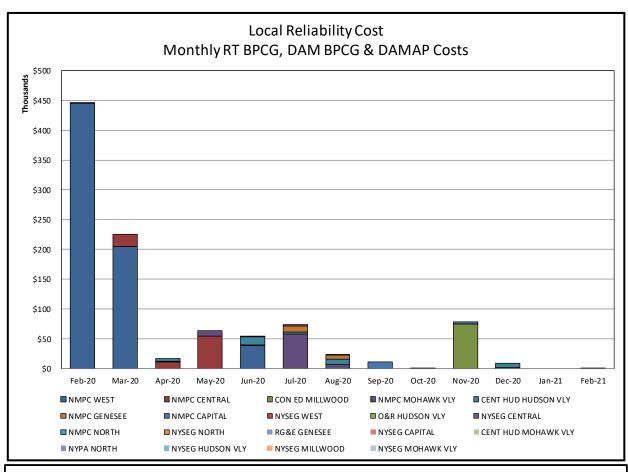


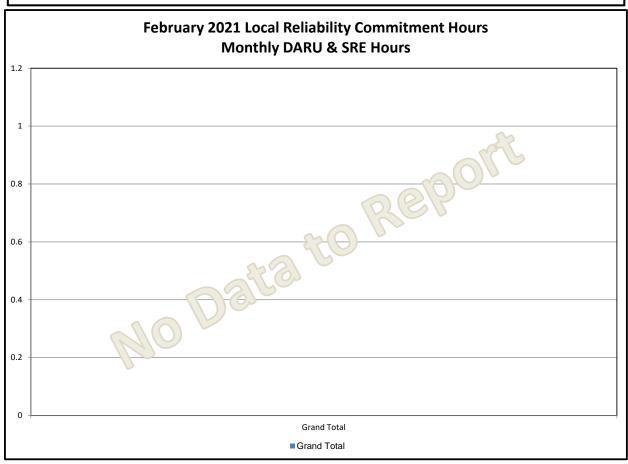




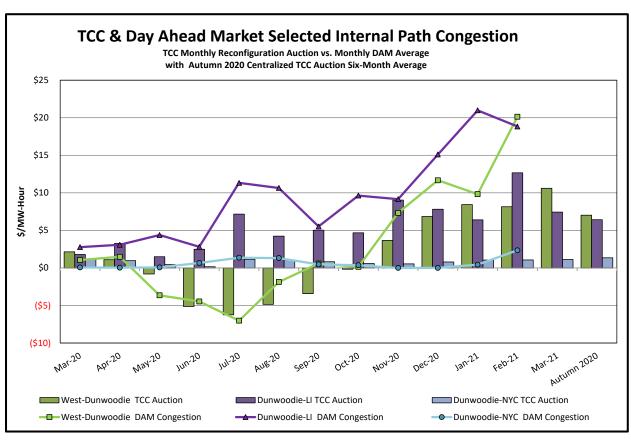


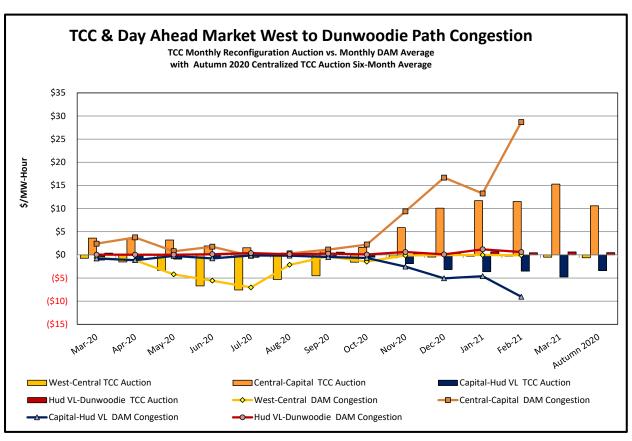




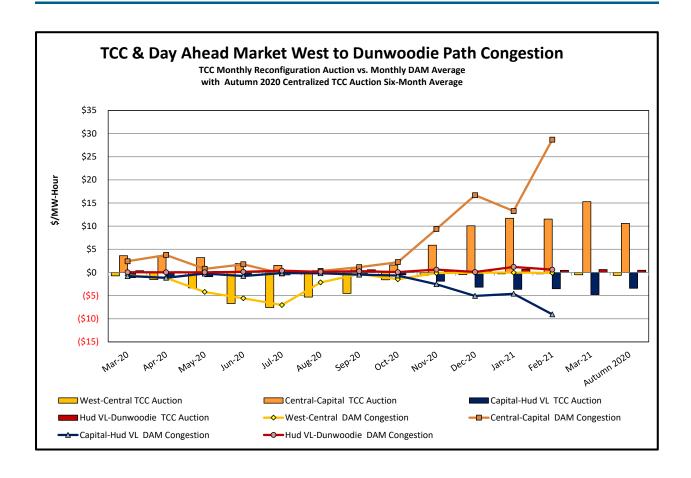




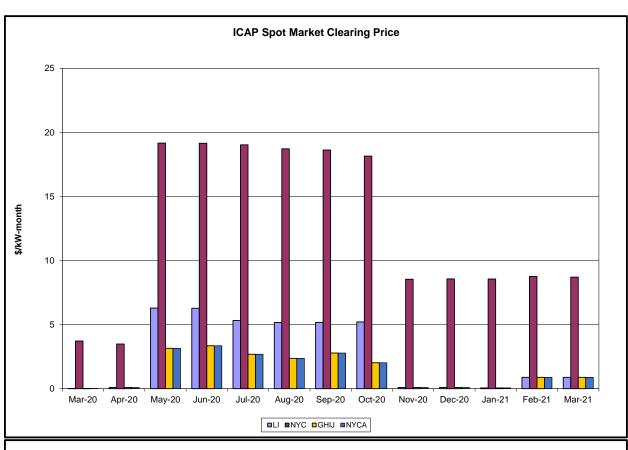


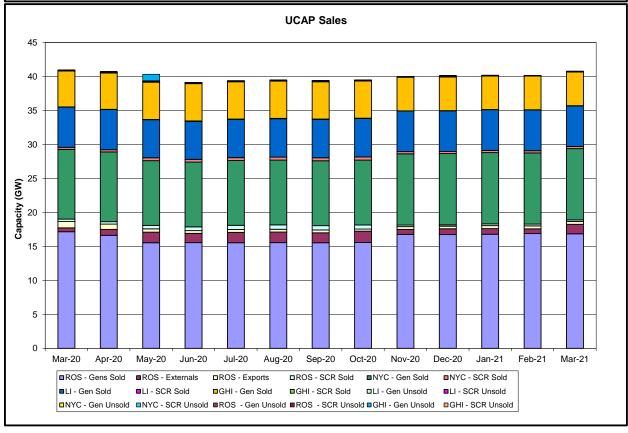








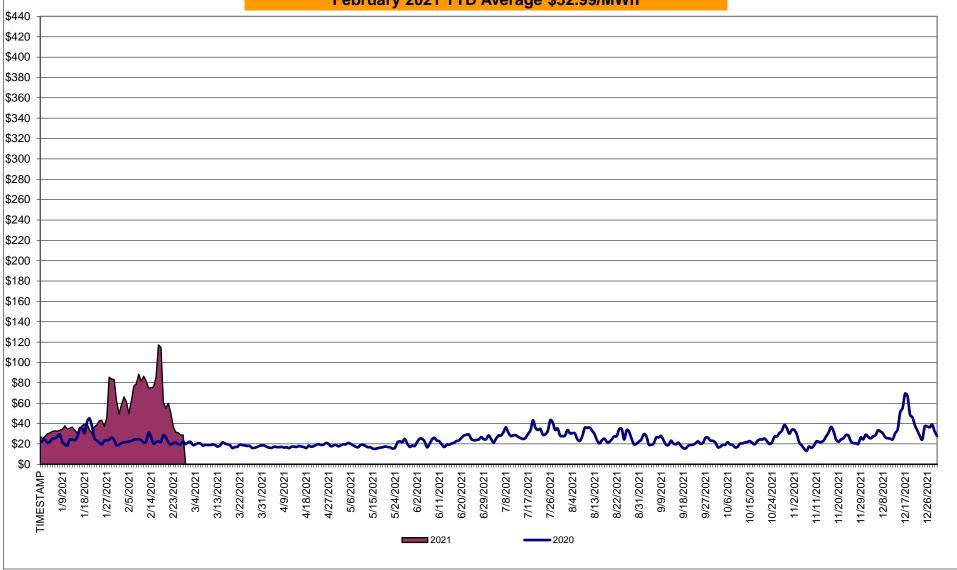




# Market Performance Highlights February 2021

- LBMP for February is \$63.70/MWh; higher than \$37.83/MWh in January 2021 and \$21.11/MWh in February 2020.
  - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are higher compared to January.
- February 2021 average year-to-date monthly cost of \$52.90/MWh is a 108% increase from \$25.40/MWh in February 2020.
- Average daily sendout is 434 GWh/day in February; higher than 427 GWh/day in January 2021 and 417 GWh/day in February 2020.
- Natural gas prices and distillate prices are higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$5.22/MMBtu, up from \$2.94/MMBtu in January.
  - Natural gas prices are up 179.8% year-over-year.
  - Jet Kerosene Gulf Coast was \$11.79/MMBtu, up from \$10.45/MMBtu in January.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$12.71/MMBtu, up from \$11.17/MMBtu in January.
  - Distillate prices are up 6.2% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.15)/MWh; higher than (\$0.31)/MWh in January.
    - Local Reliability Share is \$0.15/MWh, higher than \$0.09/MWh in January.
    - Statewide Share is (\$0.30)/MWh, higher than (\$0.40)/MWh in January.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than January.

# Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\* 2020 Annual Average \$25.62/MWh February 2020 YTD Average \$25.03/MWh February 2021 YTD Average \$52.99/MWh

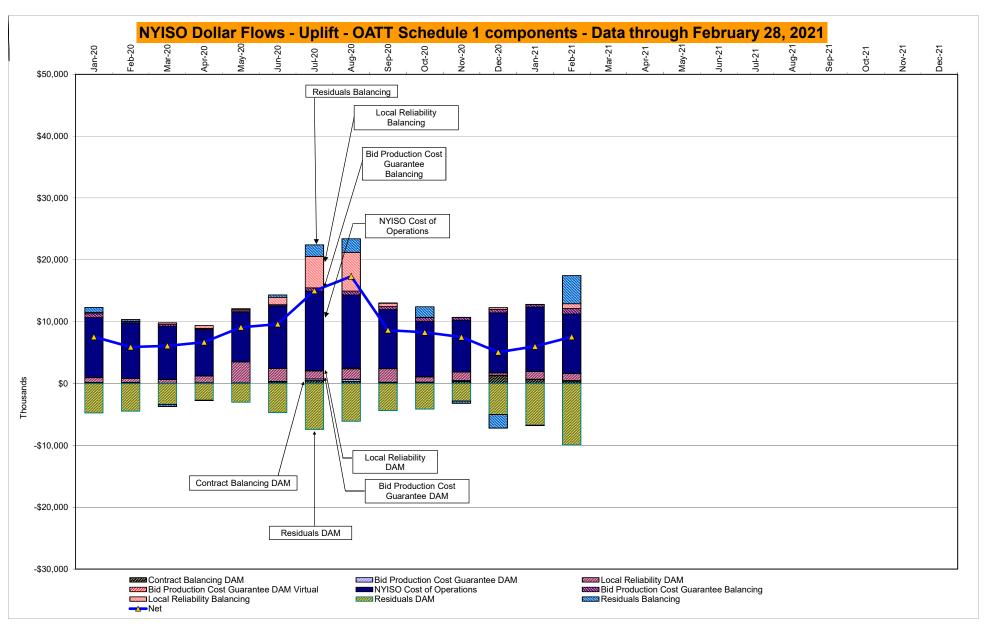


<sup>\*</sup> Excludes ICAP payments.

# 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		-	-		-	_	-			
NTAC	1.35	1.20										
Reserve	0.49	0.81										
Regulation	0.07	0.13										
NYISO Cost of Operations	0.74	0.74										
FERC Fee Recovery	0.08	0.09										
Uplift	(0.31)	(0.15)										
Uplift: Local Reliability Share	0.09	0.15										
Uplift: Statewide Share	(0.40)	(0.30)										
Voltage Support and Black Start _	0.43	0.43										
Avg Monthly Cost	40.61	66.87										
Avg YTD Cost	40.61	52.90										
TSA \$ per NYC MWh	0.00	0.00										
2020	<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
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)	(80.0)	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

<sup>\*</sup> Excludes ICAP payments. Market Mitigation and Analysis Prepared: 3/8/2021 12:27 PM



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>	November	<u>December</u>
Day Ahead Market MWh	14,108,848	13,325,329										
DAM LSE Internal LBMP Energy Sales	60%	59%										
DAM External TC LBMP Energy Sales	5%	4%										
DAM Bilateral - Internal Bilaterals	31%	30%										
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	1%	4%										
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%										
DAM Bilateral - Wheel Through Bilaterals	2%	2%										
Balancing Energy Market MWh	29,179	-308,157										
Balancing Energy LSE Internal LBMP Energy Sales	-215%	-151%										
Balancing Energy External TC LBMP Energy Sales	374%	59%										
Balancing Energy Bilateral - Internal Bilaterals	49%	4%										
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%										
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	50%	5%										
Balancing Energy Bilateral - Wheel Through Bilaterals	-158%	-17%										
Transactions Summary												
LBMP	65%	62%										
Internal Bilaterals	31%	31%										
Import Bilaterals	1%	4%										
Export Bilaterals	2%	2%										
Wheels Through	2%	2%										
Market Share of Total Load												
Day Ahead Market	99.8%	102.4%										
Balancing Energy +	0.2%	-2.4%										
Total MWH												
Average Daily Energy Sendout/Month GWh	427	434										
Average Daily Energy Gendouvivionin GWII	721	707										
<u>2020</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	<u>October</u>	November	December
2020 Day Ahead Market MWh	<u>January</u> 14,194,609	<u>February</u> 13,172,669	<u>March</u> 12,495,999	<u>April</u> 11,372,390	<u>May</u> 11,462,320	<u>June</u> 13,825,178	<u>July</u> 16,629,337	<u>August</u> 15,671,629	<u>September</u> 13,122,542	October 12,338,638	November 12,157,281	<u>December</u> 13,748,181
Day Ahead Market MWh	<del></del>				<del></del> -		<del></del> -		13,122,542			
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	14,194,609	13,172,669	12,495,999	11,372,390	11,462,320	13,825,178	16,629,337	15,671,629		12,338,638	12,157,281	13,748,181
Day Ahead Market MWh	14,194,609 56% 6%	13,172,669 56%	12,495,999 59%	11,372,390 54%	11,462,320 55%	13,825,178 58% 3%	16,629,337 65% 2%	15,671,629 63%	13,122,542 60%	12,338,638 56%	12,157,281 57%	13,748,181 59% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	14,194,609 56%	13,172,669 56% 5%	12,495,999 59% 5%	11,372,390 54% 7%	11,462,320 55% 4%	13,825,178 58%	16,629,337 65%	15,671,629 63% 4%	13,122,542 60% 4%	12,338,638 56% 5%	12,157,281 57% 5%	13,748,181 59% 5% 31%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals	14,194,609 56% 6% 30% 5%	13,172,669 56% 5% 30% 5%	12,495,999 59% 5% 27% 6%	11,372,390 54% 7% 30% 6%	11,462,320 55% 4% 31% 6%	13,825,178 58% 3% 29% 5%	16,629,337 65% 2% 26% 3%	15,671,629 63% 4% 27% 3%	13,122,542 60% 4% 30% 2%	12,338,638 56% 5% 32% 3%	12,157,281 57% 5% 33% 3%	13,748,181 59% 5% 31% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals	14,194,609 56% 6% 30% 5% 2%	13,172,669 56% 5% 30% 5% 2%	12,495,999 59% 5% 27% 6% 2%	11,372,390 54% 7% 30% 6% 2%	11,462,320 55% 4% 31% 6% 2%	13,825,178 58% 3% 29% 5% 2%	16,629,337 65% 2% 26% 3% 1%	15,671,629 63% 4% 27% 3% 2%	13,122,542 60% 4% 30% 2% 2%	12,338,638 56% 5% 32% 3% 2%	12,157,281 57% 5% 33% 3% 2%	13,748,181 59% 5% 31% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals	14,194,609 56% 6% 30% 5% 2% 1%	13,172,669 56% 5% 30% 5% 2% 1%	12,495,999 59% 5% 27% 6% 2% 1%	11,372,390 54% 7% 30% 6% 2% 1%	11,462,320 55% 4% 31% 6% 2% 1%	13,825,178 58% 3% 29% 5% 2% 2%	16,629,337 65% 2% 26% 3% 1% 2%	15,671,629 63% 4% 27% 3% 2% 2%	13,122,542 60% 4% 30% 2% 2% 2%	12,338,638 56% 5% 32% 3% 2% 2%	12,157,281 57% 5% 33% 3% 2% 0%	13,748,181 59% 5% 31% 2% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh	14,194,609 56% 6% 30% 5% 2% 1% -26,753	13,172,669 56% 5% 30% 5% 2% 1% -142,168	12,495,999 59% 5% 27% 6% 2% 1% 144,076	11,372,390 54% 7% 30% 6% 2% 1% 22,599	11,462,320 55% 4% 31% 6% 2% 1% -137,565	13,825,178 58% 3% 29% 5% 2% 2% -180,149	16,629,337 65% 2% 26% 3% 1% 2% 403,914	15,671,629 63% 4% 27% 3% 2% 2% 212,307	13,122,542 60% 4% 30% 2% 2% 2% -173,115	12,338,638 56% 5% 32% 3% 2% 2% -89,451	12,157,281 57% 5% 33% 3% 2% 0% -54,598	13,748,181 59% 5% 31% 2% 2% 2% 156,891
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459%	13,748,181 59% 5% 31% 2% 2% 2% 2% 156,891 -12%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104%	12,338,638 56% 5% 32% 3% 2% 2% 2% -89,451 -220% 187%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3%	13,748,181 59% 5% 31% 2% 2% 2% 2% 156,891 -12% 107% 7%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0%	12,338,638 56% 5% 32% 3% 2% 2% 2% -89,451 -220% 187% 4% 20%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3% 9%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 0% 7%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3% 9% 33%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6% 11%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0%	12,338,638 56% 5% 32% 3% 2% 2% 2% -89,451 -220% 187% 4% 20%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3% 9%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% -24%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 0% 7% -116%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3% 9% 33% -69%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6% 11% -19%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% -24%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 7% -116%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3% 9% 33% -69%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 6% 11% -19%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% -24%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 0% 7% -116%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6% 11% -19% 64% 31%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 62% 31% 5%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 65% 27% 6%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32% 6%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% -24% 68% 26% 3%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46% 67% 27% 3%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 7% -116% 64% 31% 2%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 33%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 6% 11% -19% 64% 31% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 62% 31% 5% 2%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5% 2%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 65% 27% 6% 2%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6% 2%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32% 6% 2%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5% 2%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% -24% 68% 26% 3% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46% 67% 27% 3% 2%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 7% -116% 64% 31% 2% 2%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3% 2%	12,157,281 57% 5% 33% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 33% 2%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6% 11% -19% 64% 31% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 62% 31% 5%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 65% 27% 6%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32% 6%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% -24% 68% 26% 3%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46% 67% 27% 3%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 7% -116% 64% 31% 2%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3%	12,157,281 57% 5% 33% 3% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 33%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 6% 11% -19% 64% 31% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Mheels Through  Market Share of Total Load	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 62% 31% 5% 2% 0%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5% 2% 1%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 65% 27% 6% 2% 0%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6% 2% 0%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32% 6% 2% 0%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5% 2% 1%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% -24% 68% 26% 3% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46% 67% 27% 3% 2% 1%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 7% -116% 64% 31% 2% 2% 1%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3% 2% 2% 2%	12,157,281 57% 5% 33% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 3% 2% 0%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 6% 11% -19% 64% 31% 2% 2% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Mheels Through  Market Share of Total Load  Day Ahead Market	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 62% 31% 5% 2% 0%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5% 2% 1%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 65% 27% 6% 27% 6% 2% 0%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6% 2% 0%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 12% 0% 12% -74% 59% 32% 6% 2% 0% 101.2%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5% 2% 1%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 22% -24% 68% 36% 37% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46% 67% 27% 3% 2% 1%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 7% -116% 64% 31% 2% 2% 1%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3% 2% 2% 2%	12,157,281 57% 5% 33% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 3% 2% 0%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6% 11% -19% 64% 31% 2% 2% 2% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 62% 31% 5% 2% 0% 100.2% -0.2%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5% 2% 1% 101.1% -1.1%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 65% 27% 6% 27% 6% 2% 0% 98.9% 1.1%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6% 2% 0% 99.8% 0.2%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32% 6% 2% 0% 101.2% -1.2%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5% 2% 1%  101.3% -1.3%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% -24% 68% 26% 3% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 44% -46% 27% 3% 27% 3% 2% 1%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% -7% -116% 64% 31% 2% 2% 1%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3% 2% 2% 2% 2%	12,157,281 57% 5% 33% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 3% 2% 0% 100.5% -0.5%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 6% 11% -19% 64% 31% 2% 2% 2% 2% 2% 1.1%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Mheels Through  Market Share of Total Load  Day Ahead Market	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 62% 31% 5% 2% 0%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5% 2% 1%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 65% 27% 6% 27% 6% 2% 0%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6% 2% 0%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 12% 0% 12% -74% 59% 32% 6% 2% 0% 101.2%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5% 2% 1%  101.3% -1.3%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 22% -24% 68% 36% 37% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 4% -46% 67% 27% 3% 2% 1%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 7% -116% 64% 31% 2% 2% 1%	12,338,638 56% 5% 32% 3% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3% 2% 2% 2%	12,157,281 57% 5% 33% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 3% 2% 0%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6% 11% -19% 64% 31% 2% 2% 2% 2% 2%

<sup>+</sup> Balancing Energy: Load(MW) purchased at Real Time LBMP.

Virtual Transactions are not reflected in this chart.

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

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

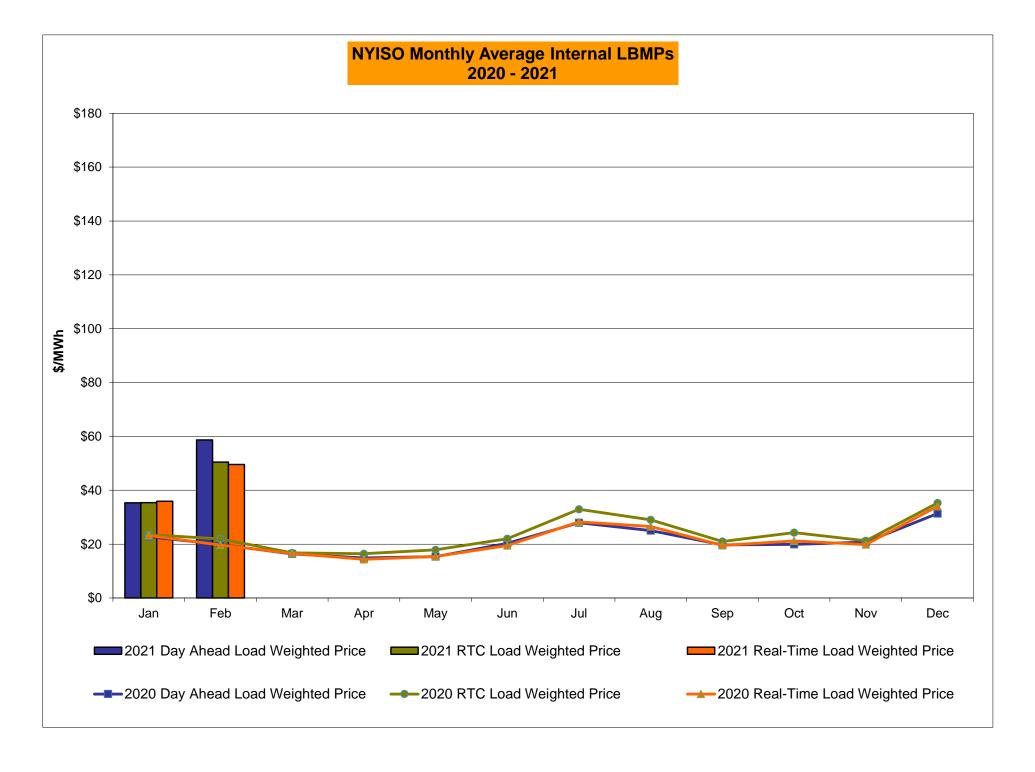
### NYISO Markets 2021 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August September	October November Decem
DAY AHEAD LBMP									
Price *	\$34.37	\$57.30							
Standard Deviation	\$14.58	\$24.48							
Load Weighted Price **	\$35.31	\$58.67							
RTC LBMP									
Price *	\$34.32	\$49.25							
Standard Deviation	\$20.93	\$23.34							
Load Weighted Price **	\$35.40	\$50.48							
REAL TIME LBMP									
Price *	\$34.59	\$48.22							
Standard Deviation	\$29.47	\$26.46							
Load Weighted Price **	\$35.89	\$49.57							
Average Daily Energy Sendout/Month GWh	427	434							

### NYISO Markets 2020 Energy Statistics

DAY AHEAD LBMP	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November [	<u>December</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
RTC LBMP												
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
REAL TIME LBMP												
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

<sup>\*</sup> Average zonal load weighted prices.
\*\* Average zonal load weighted prices, load weighted in each hour.

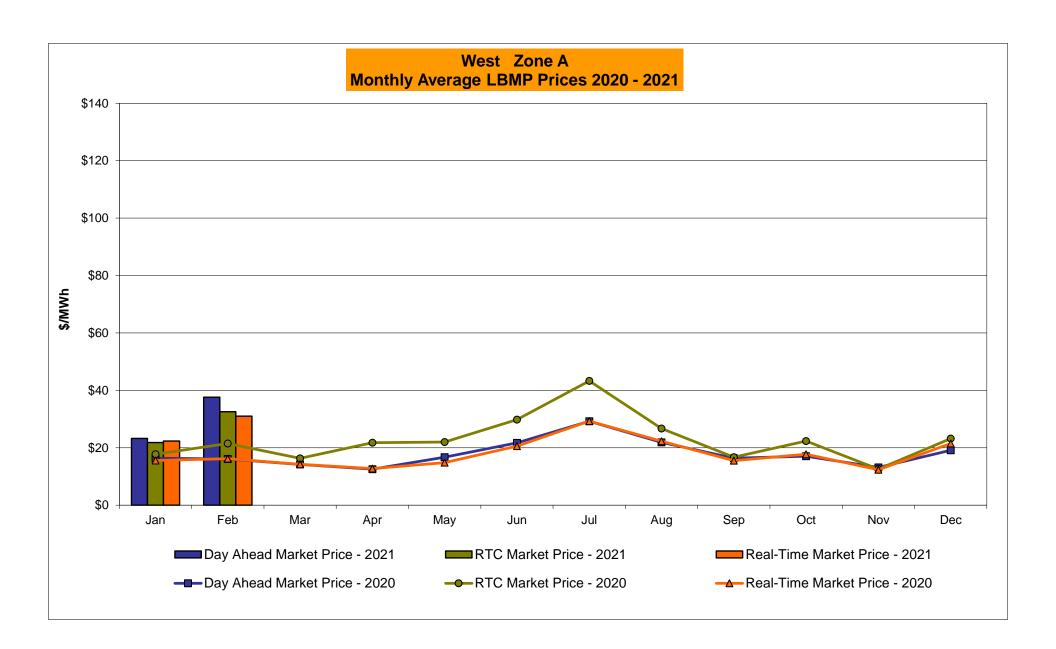


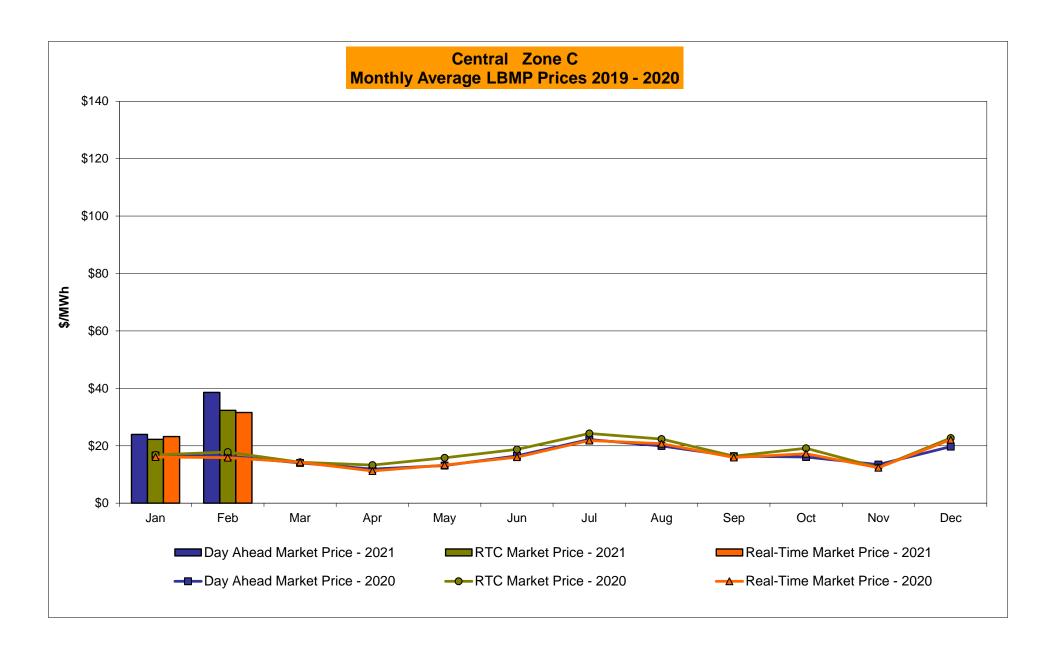
### February 2021 Zonal LBMP Statistics for NYISO (\$/MWh)

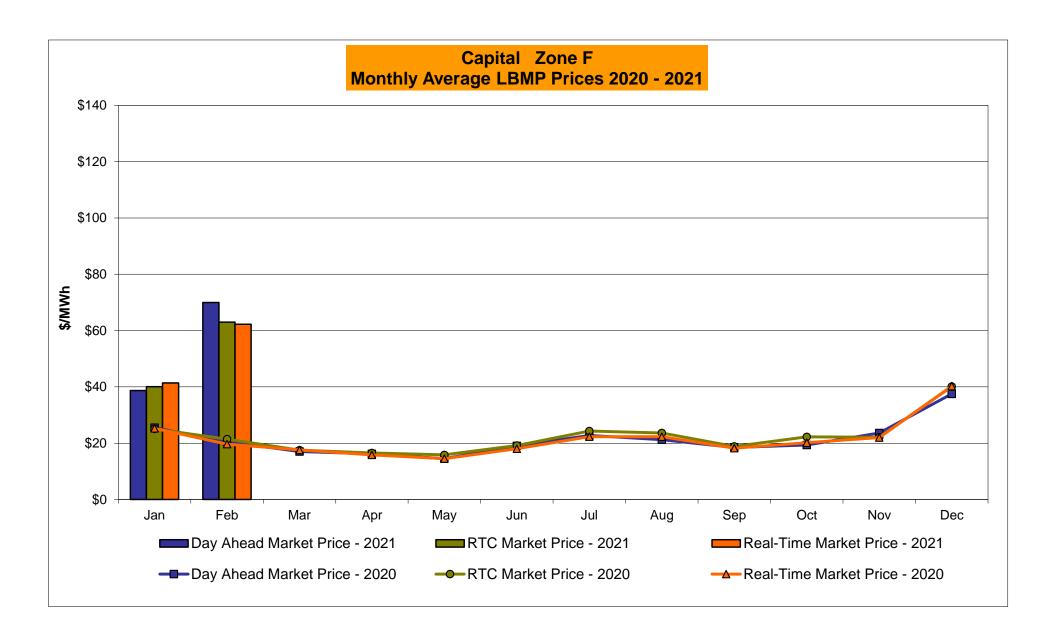
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	37.61	36.66	33.28	38.58	40.09	69.97	61.05	62.22	62.10	64.78	81.92
Standard Deviation	23.49	23.77	25.34	24.17	25.05	25.34	23.81	24.94	24.91	26.71	30.43
RTC LBMP											
Unweighted Price *	32.54	30.56	28.35	32.32	34.02	62.96	50.83	51.59	51.48	52.63	78.62
Standard Deviation	25.19	23.40	26.02	23.77	24.80	31.93	22.00	22.24	22.28	23.95	67.98
REAL TIME LBMP											
Unweighted Price *	31.01	29.94	27.13	31.56	32.89	62.24	51.31	52.11	52.01	53.34	73.20
Standard Deviation	35.46	35.99	40.09	35.41	36.15	42.55	26.49	26.86	26.85	28.46	45.62
		HADBU	HADBO			CDOSS					
	ONTADIO	HYDRO	HYDRO		NEW/	CROSS	NODTUDODT				
	ONTARIO	QUEBEC	QUEBEC	P.IM	NEW ENGLAND	SOUND	NORTHPORT-	NEPTLINE	I INDEN VET	HUDSON	Dennison
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE Controllable	LINDEN VFT	HUDSON	Dennison Controllable
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND		NEPTUNE Controllable Line	LINDEN VFT Controllable Line	HUDSON Controllable Line	Dennison Controllable Line
DAY AHEAD LBMP	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	<u>Controllable</u>	Controllable
<b>DAY AHEAD LBMP</b> Unweighted Price *	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	<u>Controllable</u>	Controllable
	IESO Zone O	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export) Zone M	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	<b>Zone O</b> 35.83	QUEBEC (Wheel)  Zone M  33.11	QUEBEC (Import/Export)  Zone M  33.11	<b>Zone P</b> 35.83	<b>Zone N</b> 71.01	SOUND CABLE Controllable Line 49.79	NORWALK Controllable Line 81.92	Controllable Line 76.46	Controllable Line 32.68	Controllable Line 62.82	Controllable Line 81.46
Unweighted Price * Standard Deviation	<b>Zone O</b> 35.83	QUEBEC (Wheel)  Zone M  33.11	QUEBEC (Import/Export)  Zone M  33.11	<b>Zone P</b> 35.83	<b>Zone N</b> 71.01	SOUND CABLE Controllable Line 49.79	NORWALK Controllable Line 81.92	Controllable Line 76.46	Controllable Line 32.68	Controllable Line 62.82	Controllable Line 81.46
Unweighted Price * Standard Deviation  RTC LBMP	Zone O 35.83 22.72	QUEBEC (Wheel)  Zone M  33.11 25.15	QUEBEC (Import/Export)  Zone M  33.11 25.15	Zone P 35.83 22.72	<b>Zone N</b> 71.01 26.57	SOUND CABLE Controllable Line 49.79 22.31	NORWALK Controllable Line  81.92 30.41	Controllable Line 76.46 29.39	Controllable Line 32.68 24.84	Controllable Line 62.82 25.76	Controllable Line 81.46 30.17
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	28.66 21.13	QUEBEC (Wheel)  Zone M  33.11 25.15  24.20 26.44	QUEBEC (Import/Export)  Zone M  33.11 25.15  24.20 26.44	Zone P  35.83 22.72  28.66 21.13	Zone N 71.01 26.57 69.42 32.85	SOUND CABLE Controllable Line 49.79 22.31 41.66 20.71	NORWALK Controllable Line  81.92 30.41  78.53 68.08	76.46 29.39 77.77 67.71	28.09 25.60	Controllable Line 62.82 25.76 51.98 23.81	81.46 30.17 78.28 67.87
Unweighted Price * Standard Deviation  RTC LBMP  Unweighted Price * Standard Deviation	28.66	QUEBEC (Wheel)  Zone M  33.11 25.15	QUEBEC (Import/Export)  Zone M  33.11 25.15	Zone P  35.83 22.72	<b>Zone N</b> 71.01 26.57	SOUND CABLE Controllable Line 49.79 22.31	NORWALK Controllable Line 81.92 30.41	76.46 29.39	28.09	Controllable Line 62.82 25.76	200 Eline 81.46 30.17 88.28

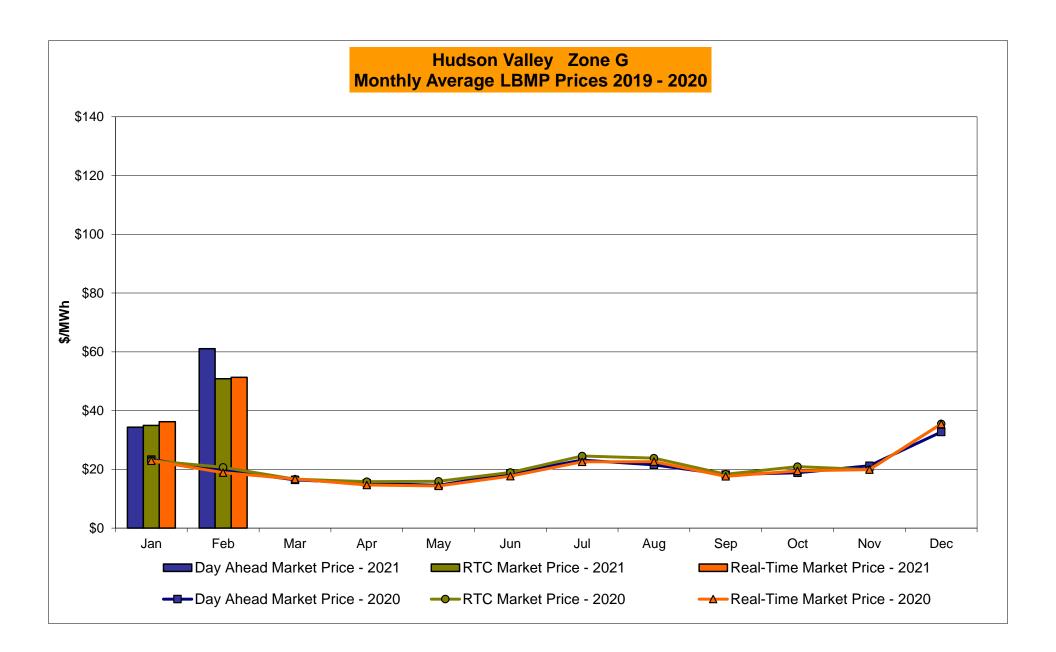
Market Mitigation and Analysis Prepared: 3/8/2021 12:24 PM

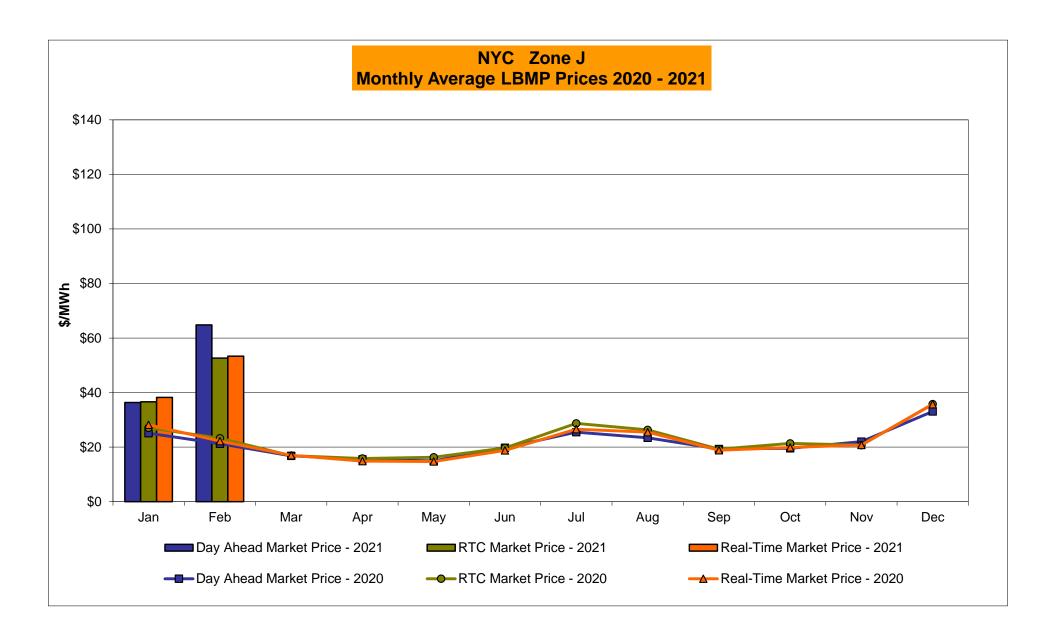
<sup>\*</sup> Straight LBMP averages

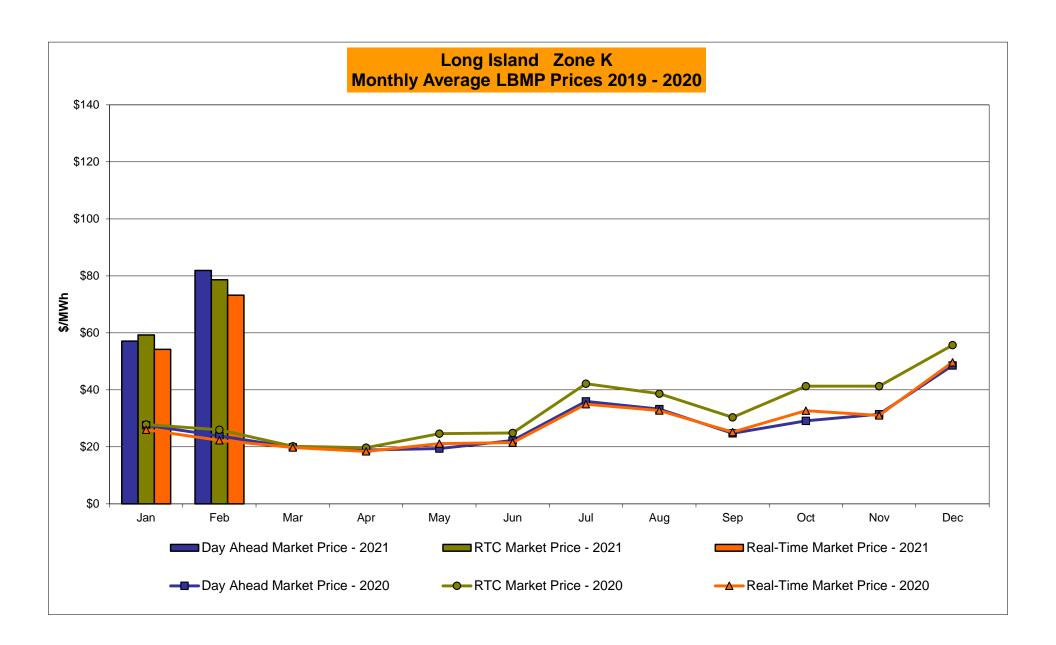


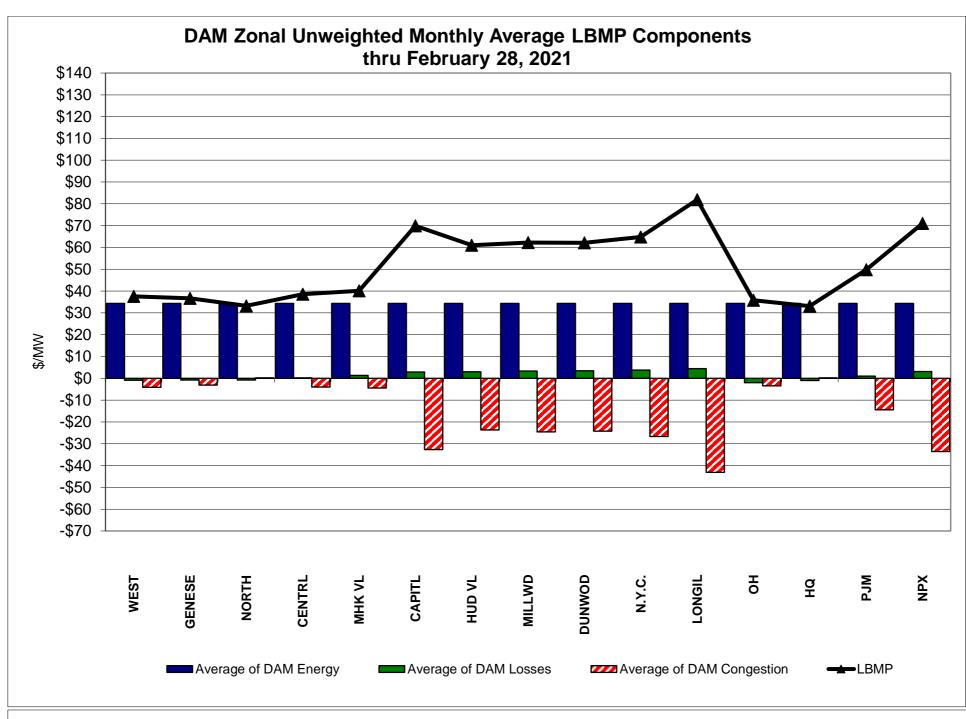


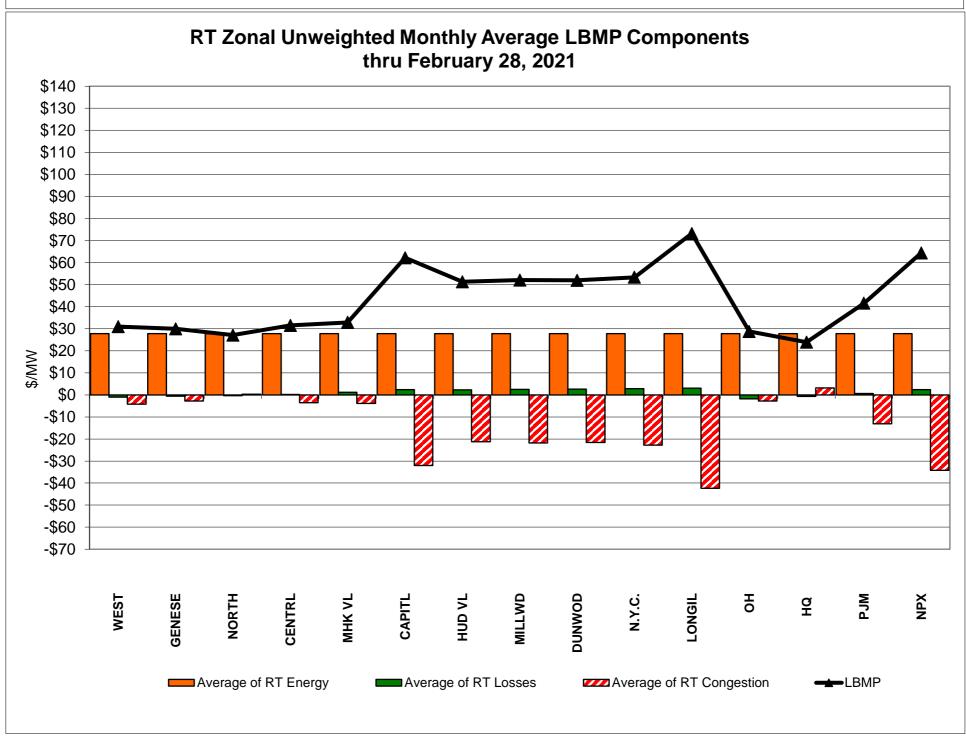




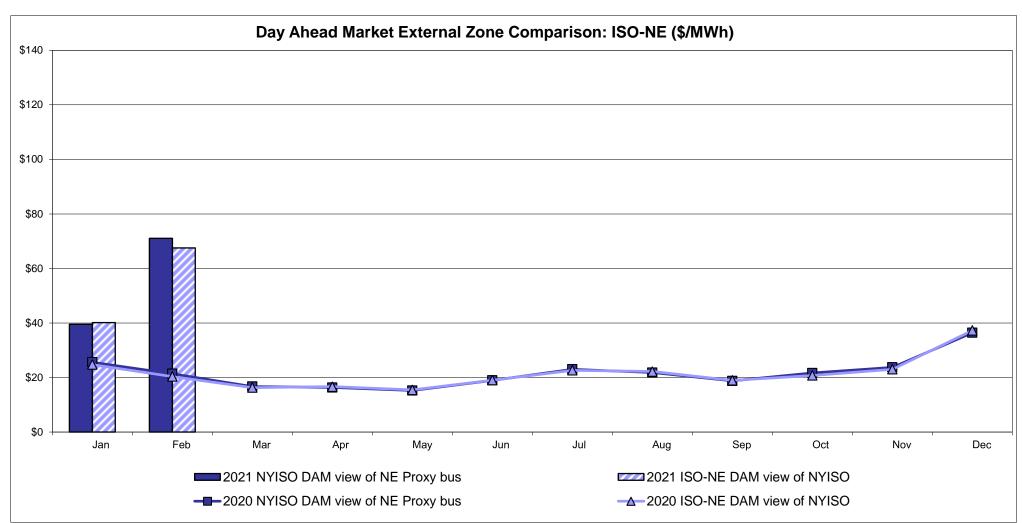


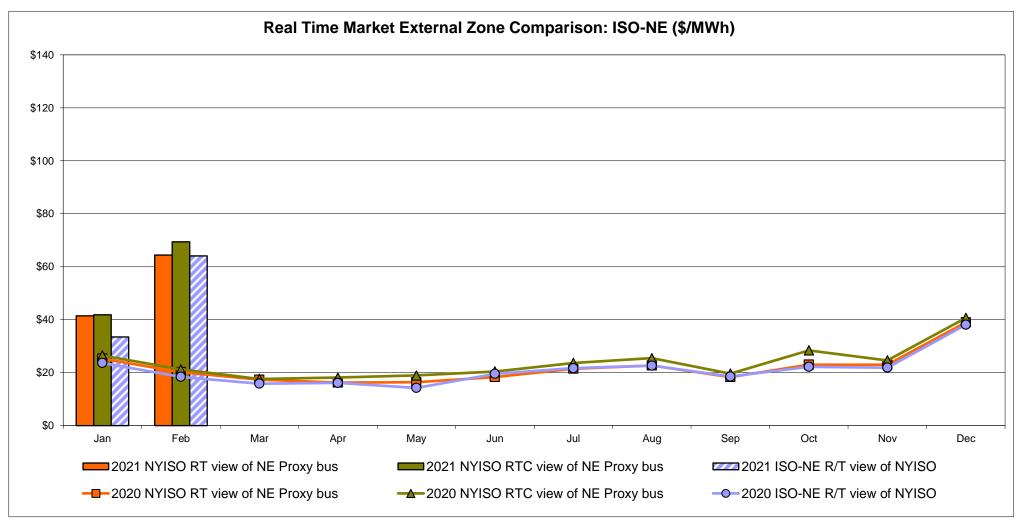




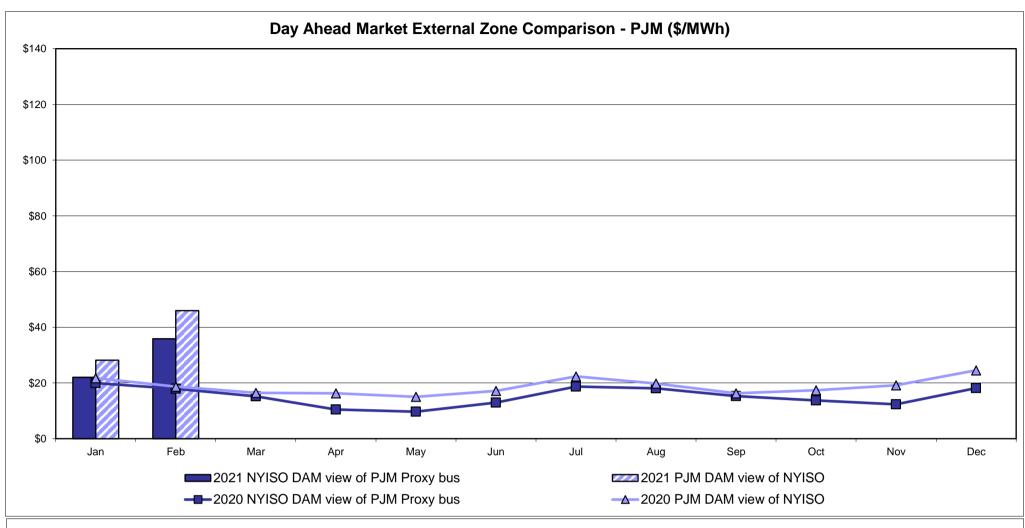


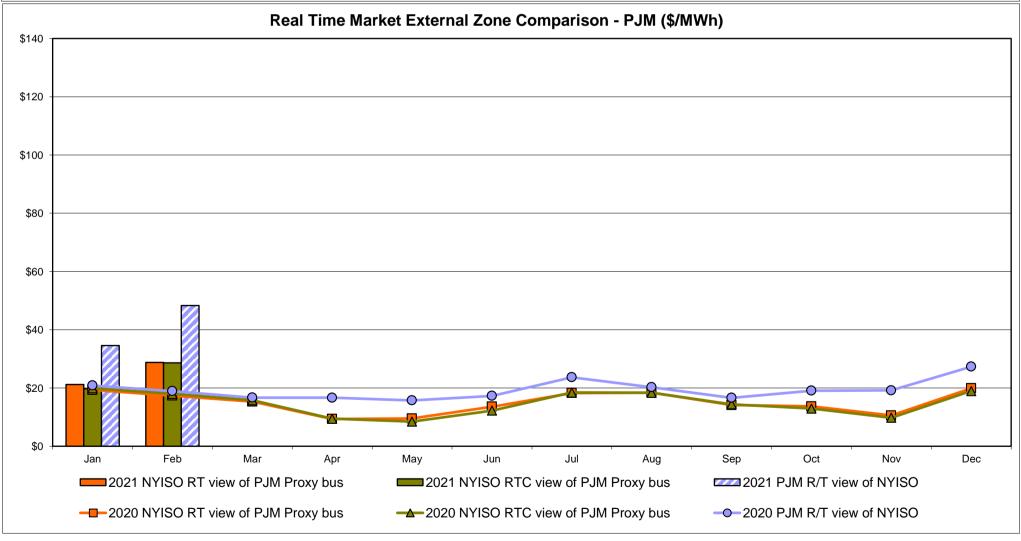
# **External Comparison ISO-New England**



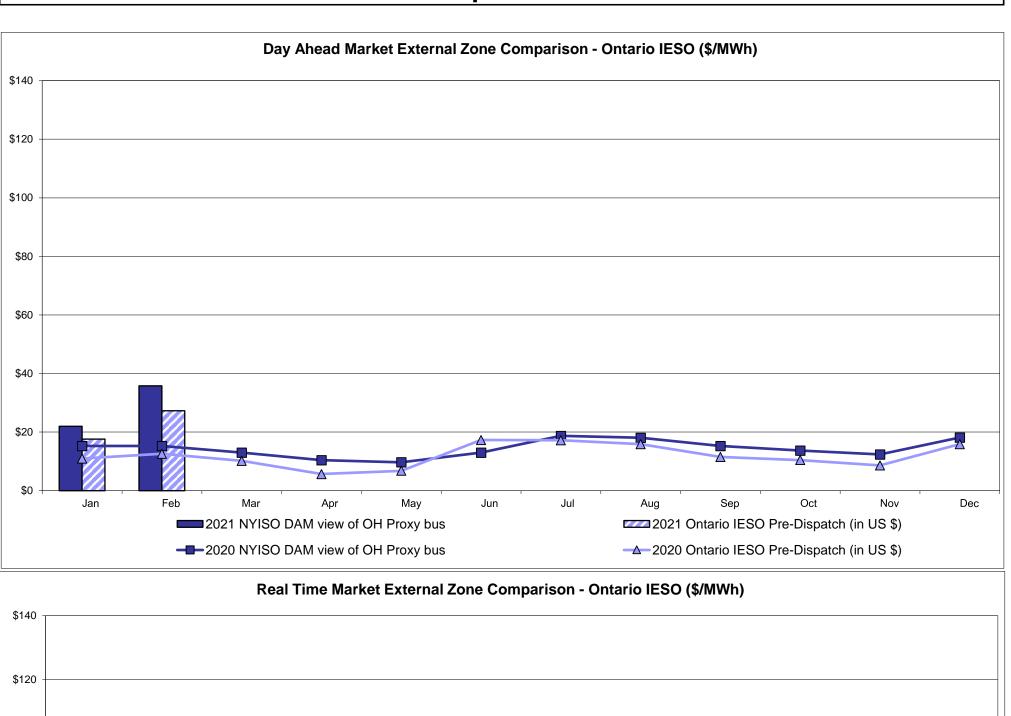


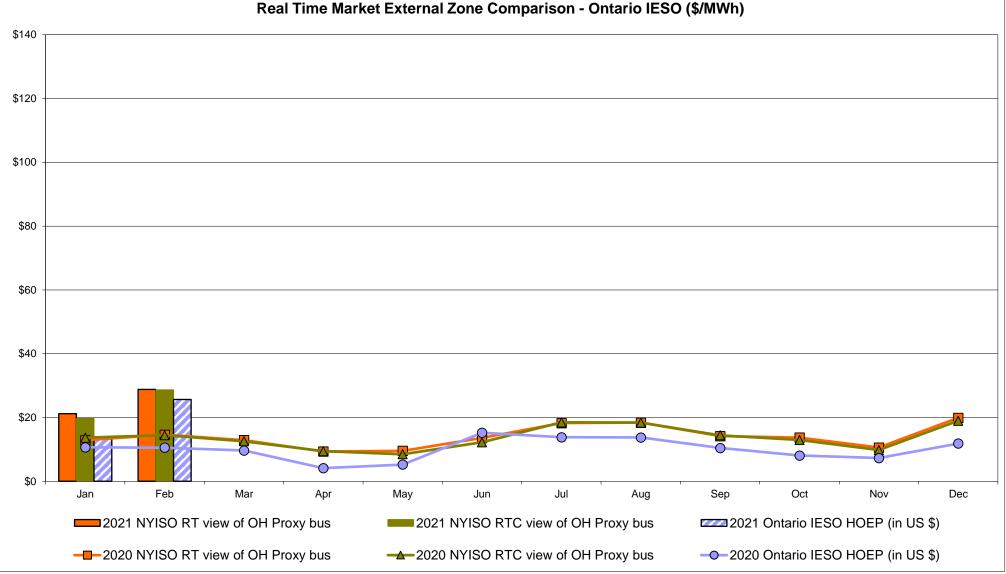
# **External Comparison PJM**





# **External Comparison Ontario IESO**

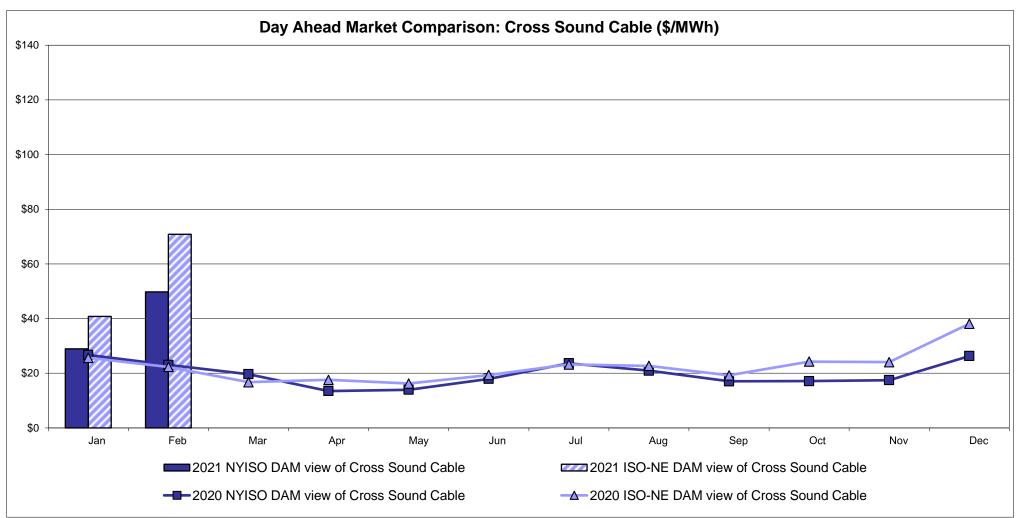


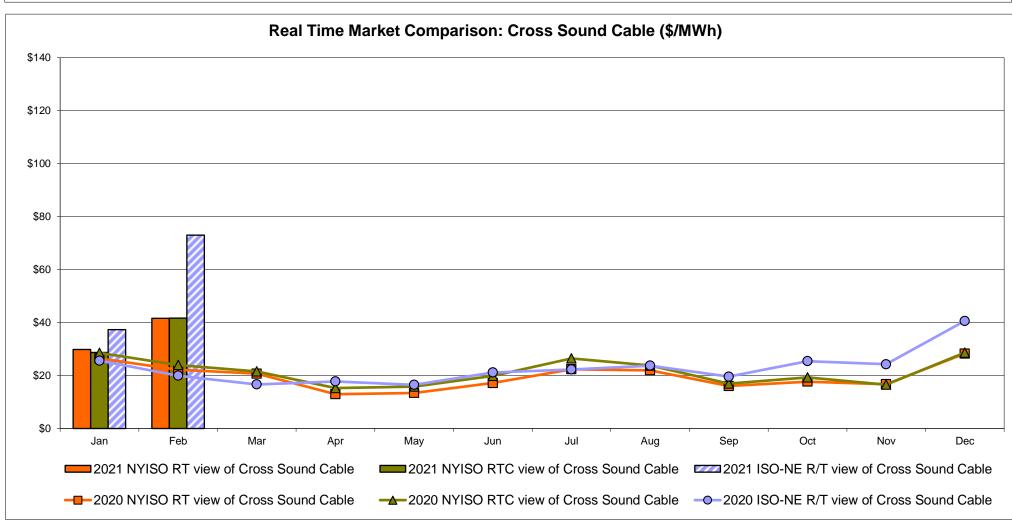


Notes: Exchange factor used for February 2021 was 0.787649653434152 to US

HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

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





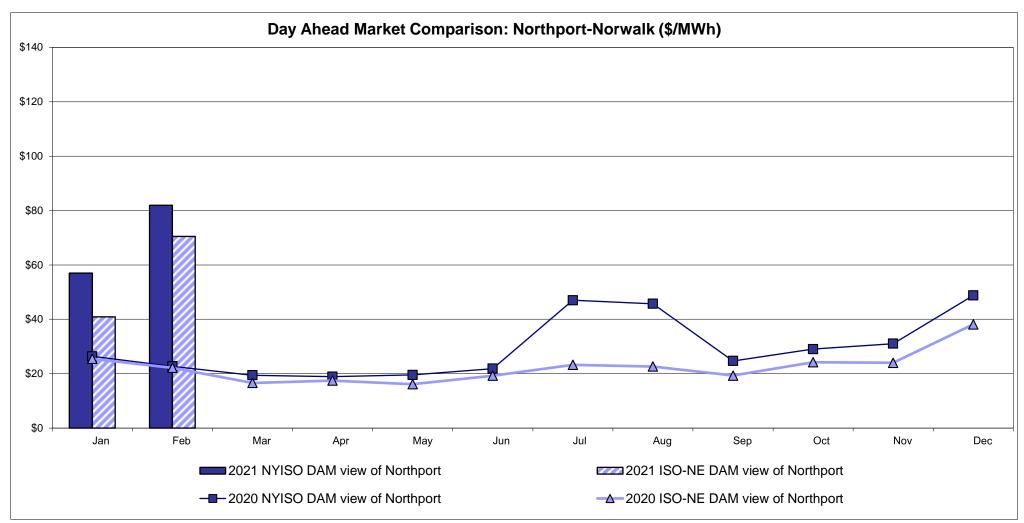
#### Note:

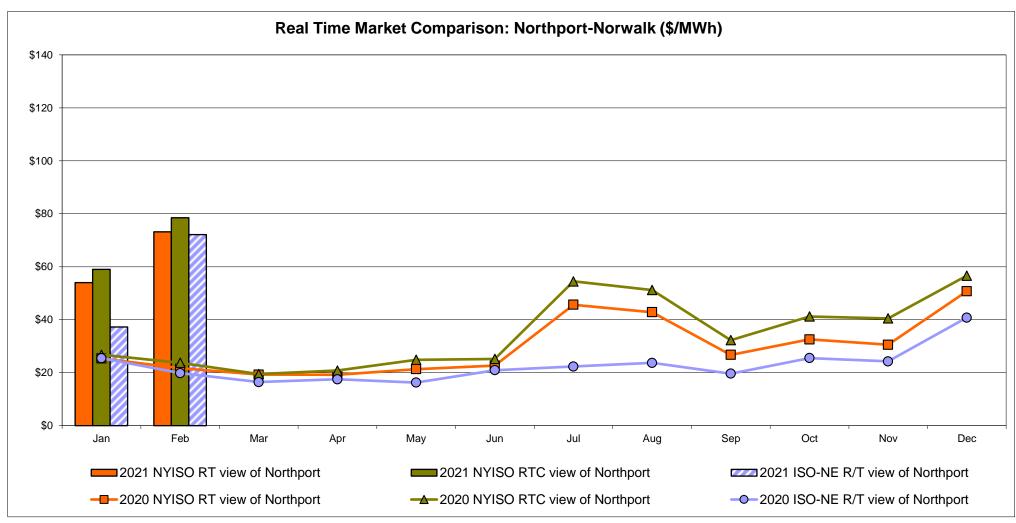
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)**





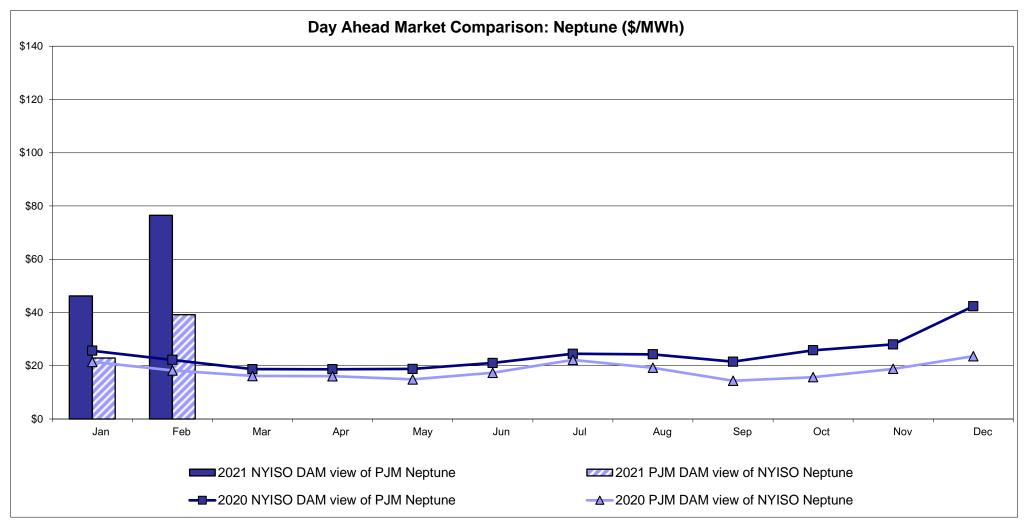
#### Note:

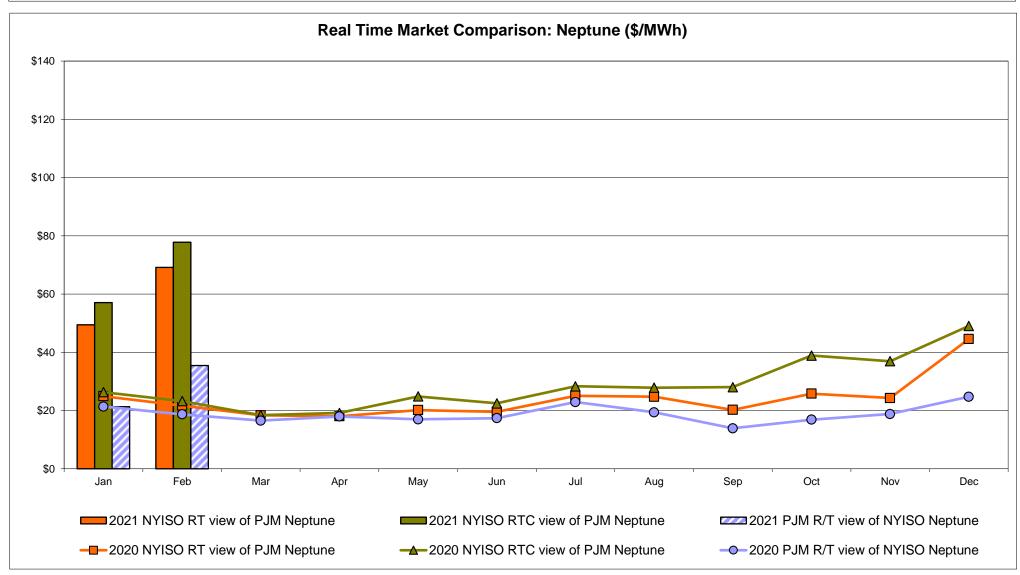
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.

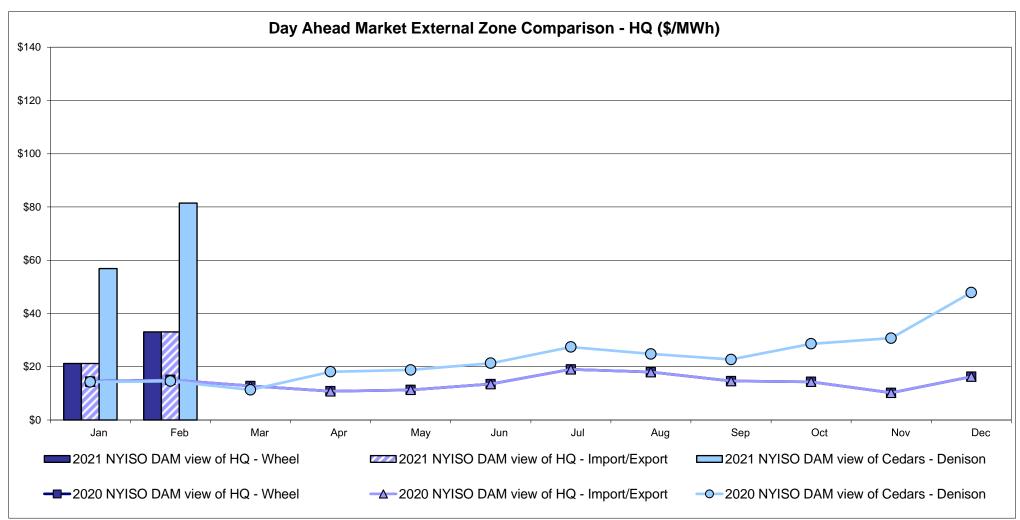
The DAM and R/T prices at the 1385 interface are used for NYISO.

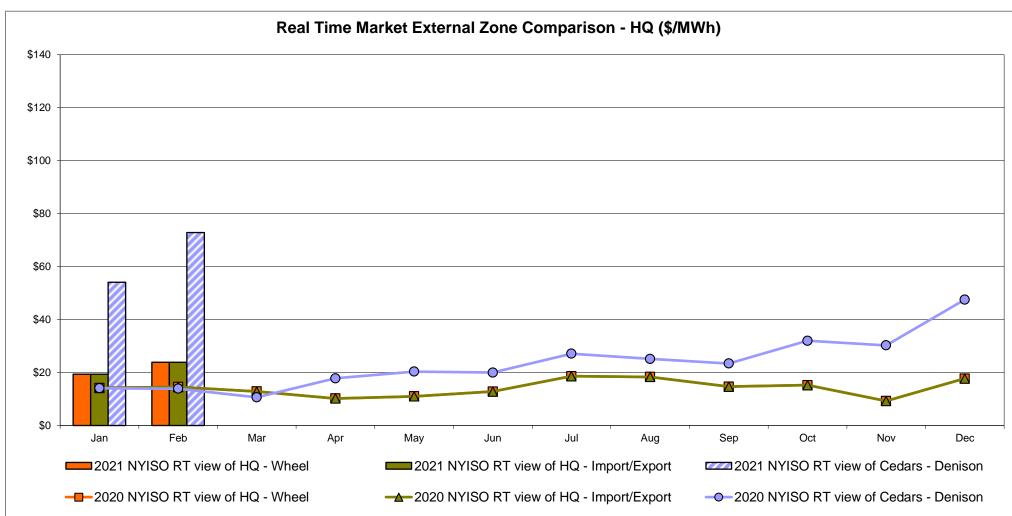
## **External Controllable Line: Neptune (PJM)**





# **External Comparison Hydro-Quebec**

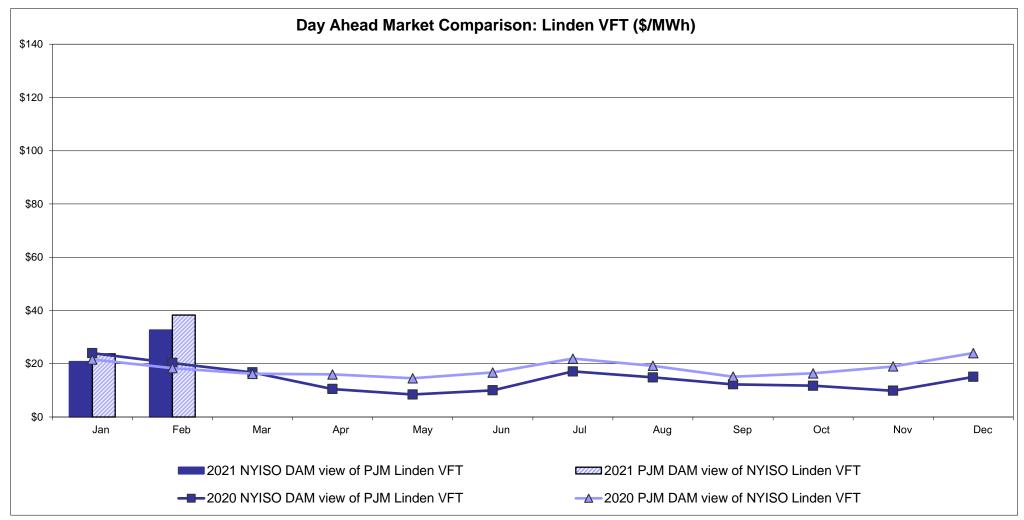


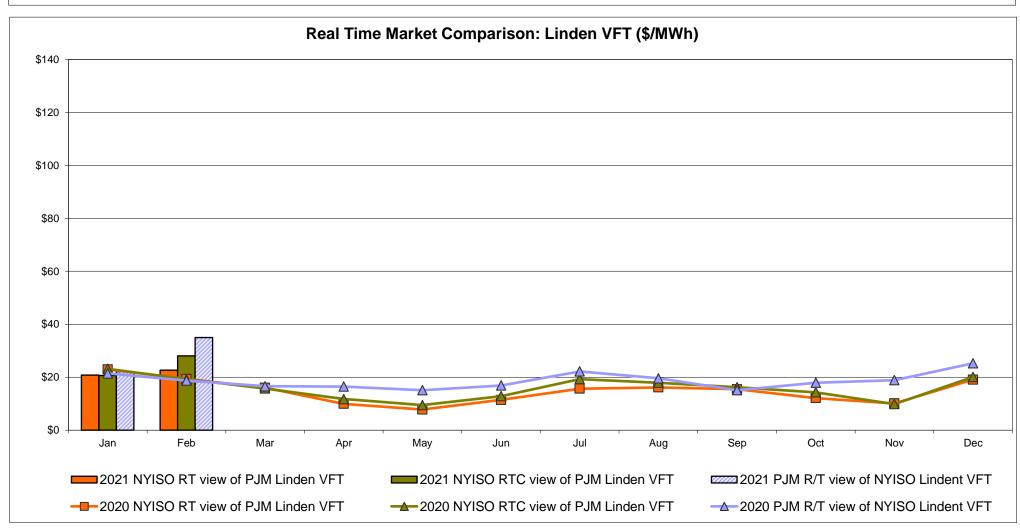


Note:

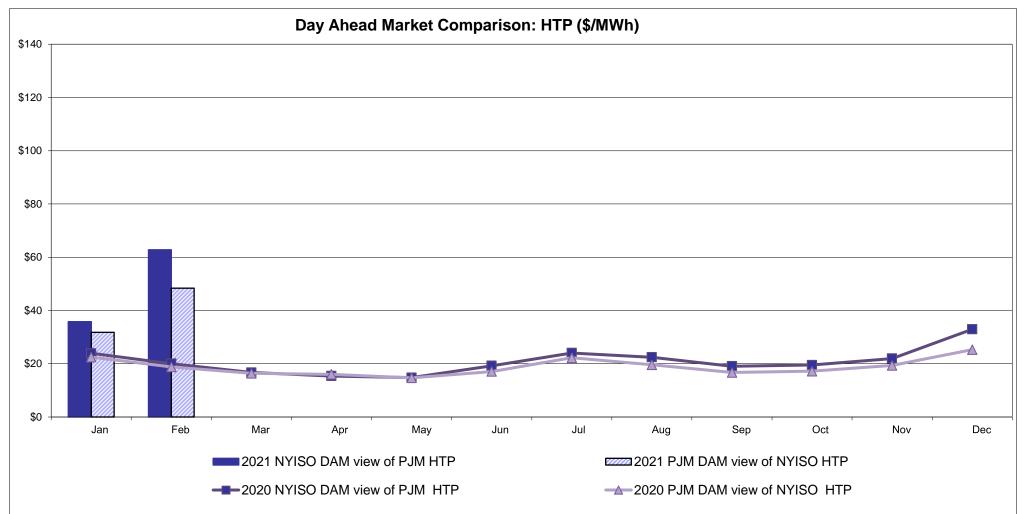
Hydro-Quebec Prices are unavailable.

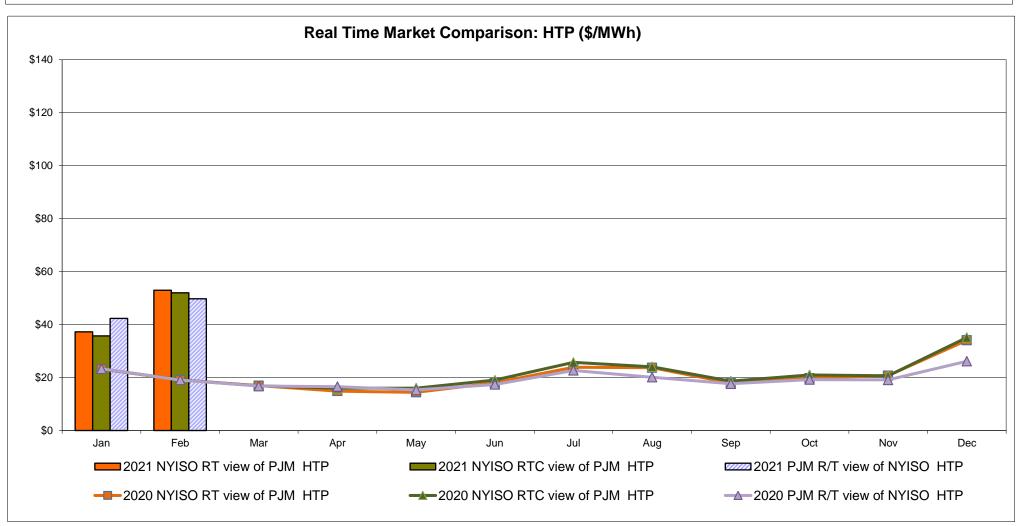
## **External Controllable Line: Linden VFT (PJM)**





## **External Controllable Line: Hudson (PJM)**

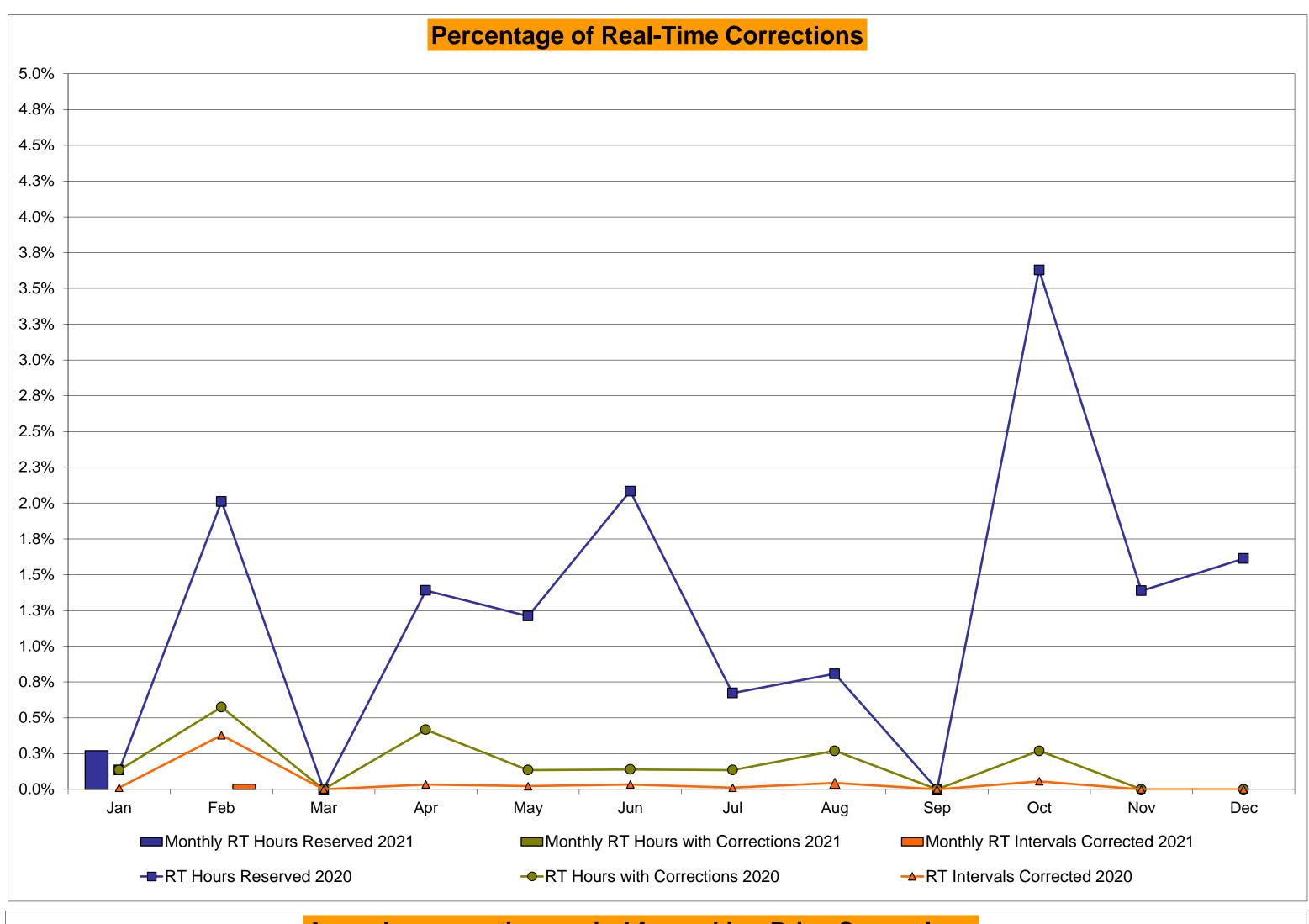




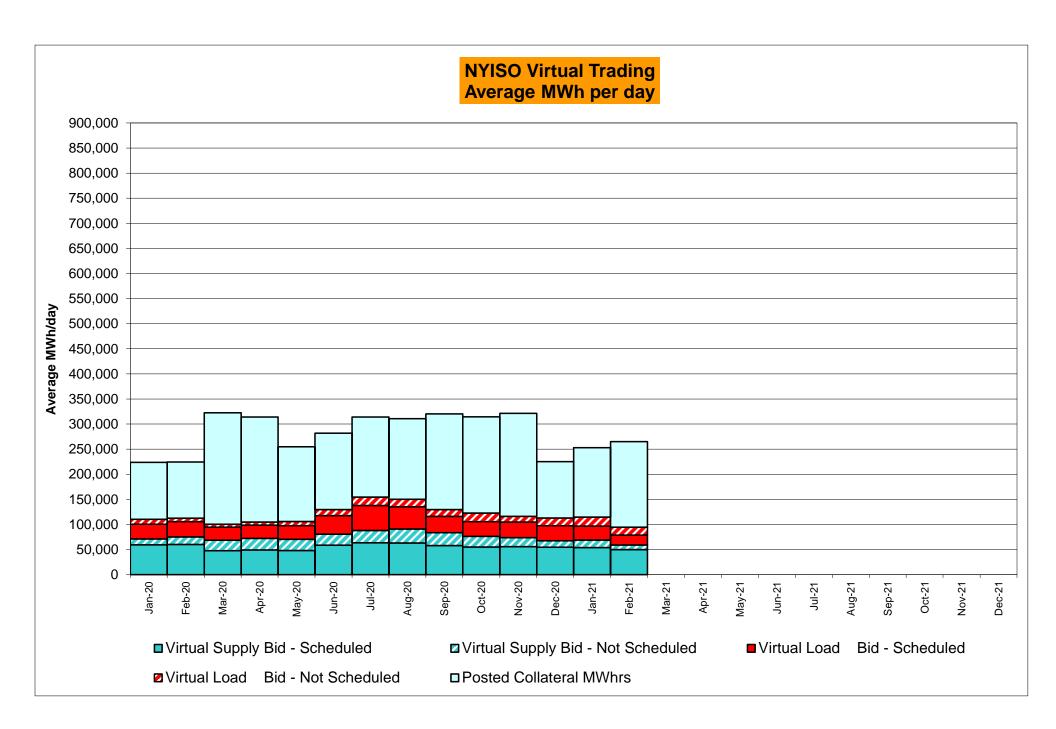
#### **NYISO Real Time Price Correction Statistics**

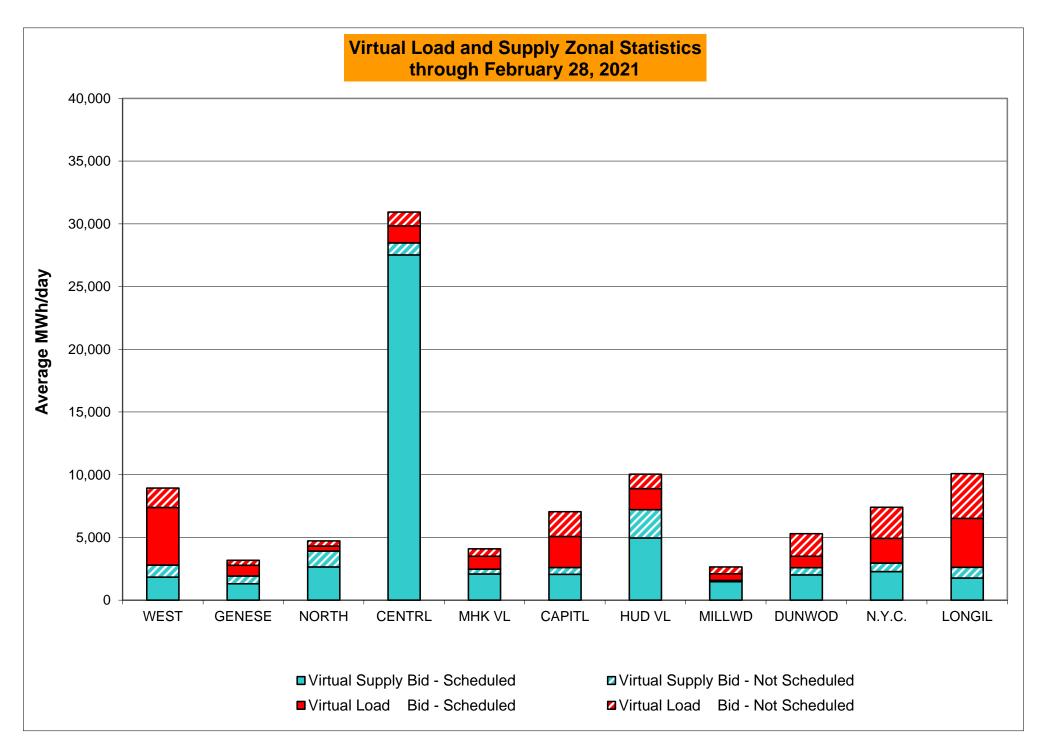
					<u> </u>			<u> </u>					
<u>2021</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	0	1										
Number of hours	in the month	744	672										
% of hours with corrections	in the month	0.00%	0.15%										
% of hours with corrections	year-to-date	0.00%	0.07%										
Interval Corrections													
Number of intervals corrected	in the month	0	3										
Number of intervals	in the month	9,095	8,236										
% of intervals corrected	in the month	0.00%	0.04%										
% of intervals corrected	vear-to-date	0.00%	0.02%										
Hours Reserved	,												
Number of hours reserved	in the month	2	12										
Number of hours	in the month	744	672										
% of hours reserved	in the month	0.27%	1.79%										
% of hours reserved	year-to-date	0.27%	0.99%										
Days to Correction *	ycai-to-datc	0.2170	0.5570										
Avg. number of days to correction	in the month	0.00	3.00										
Avg. number of days to correction	year-to-date	0.00	3.00										
Days Without Corrections	your to date	0.00	0.00										
Days without corrections	in the month	31	27										
Days without corrections	year-to-date	31	58										
,	,												
2020		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	<u>October</u>	November	December
2020 Hour Corrections		<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
	in the month	<u>January</u> 1	<u>February</u> 4	<u>March</u> 0	<u>April</u> 3	<u>May</u> 1	<u>June</u> 1	<u>July</u> 1	August 2	September 0	October 2	November 0	December 0
Hour Corrections	in the month					<u>-</u>	<u></u>						
Hour Corrections  Number of hours with corrections		1	4	0	3	1	1	1	2	0	2	0	0
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	1 744	4 696 0.57%	0 743 0.00%	3 720	1 744 0.13%	1 720 0.14%	1 744 0.13%	2 744 0.27%	0 720	2 744 0.27%	0 721 0.00%	0 744 0.00%
Hour Corrections  Number of hours with corrections  Number of hours	in the month	1 744 0.13%	4 696	0 743	3 720 0.42%	1 744	1 720	1 744	2 744	0 720 0.00%	2 744	0 721	0 744
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	1 744 0.13%	4 696 0.57%	0 743 0.00%	3 720 0.42%	1 744 0.13%	1 720 0.14%	1 744 0.13%	2 744 0.27%	0 720 0.00%	2 744 0.27%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	1 744 0.13% 0.13%	4 696 0.57% 0.35%	0 743 0.00% 0.23%	3 720 0.42% 0.28%	1 744 0.13% 0.25%	1 720 0.14% 0.23%	1 744 0.13% 0.22%	2 744 0.27% 0.22%	0 720 0.00% 0.20%	2 744 0.27% 0.20%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	1 744 0.13% 0.13%	4 696 0.57% 0.35%	0 743 0.00% 0.23%	3 720 0.42% 0.28%	1 744 0.13% 0.25%	1 720 0.14% 0.23%	1 744 0.13% 0.22%	2 744 0.27% 0.22%	0 720 0.00% 0.20%	2 744 0.27% 0.20%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	1 744 0.13% 0.13% 1 9,088 0.01%	4 696 0.57% 0.35% 32 8,460 0.38%	0 743 0.00% 0.23% 0 9,011 0.00%	3 720 0.42% 0.28% 3 8,776 0.03%	1 744 0.13% 0.25% 2 9,030 0.02%	1 720 0.14% 0.23% 3 8,826 0.03%	1 744 0.13% 0.22% 1 9,128 0.01%	2 744 0.27% 0.22% 4 9,156 0.04%	0 720 0.00% 0.20% 0 8,810 0.00%	2 744 0.27% 0.20% 5 9,048 0.06%	0 721 0.00% 0.19% 0 8,790 0.00%	0 744 0.00% 0.17% 0 9,083 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month	1 744 0.13% 0.13%	4 696 0.57% 0.35% 32 8,460	0 743 0.00% 0.23% 0 9,011	3 720 0.42% 0.28%	1 744 0.13% 0.25% 2 9,030	1 720 0.14% 0.23%	1 744 0.13% 0.22% 1 9,128	2 744 0.27% 0.22% 4 9,156	0 720 0.00% 0.20%	2 744 0.27% 0.20% 5 9,048	0 721 0.00% 0.19% 0 8,790	0 744 0.00% 0.17% 0 9,083
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date in the month in the month in the month year-to-date	1 744 0.13% 0.13% 1 9,088 0.01% 0.01%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	1 744 0.13% 0.13% 0.13% 1 9,088 0.01% 0.01%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month in the month year-to-date	1 744 0.13% 0.13% 0.13% 1 9,088 0.01% 0.01%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12%	3 720 0.42% 0.28% 0.28% 3 8,776 0.03% 0.10%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744	2 744 0.27% 0.22% 4 9,156 0.04% 0.06%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744 3.63%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05% 12 744 1.61%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month in the month year-to-date	1 744 0.13% 0.13% 0.13% 1 9,088 0.01% 0.01%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12%	3 720 0.42% 0.28% 0.28% 3 8,776 0.03% 0.10%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744	2 744 0.27% 0.22% 4 9,156 0.04% 0.06%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13% 0.13%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01% 1.04%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00% 0.69%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39% 0.86%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21% 0.93%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08% 1.12%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67% 1.06%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81% 1.02%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00% 0.91%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744 3.63% 1.19%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39% 1.21%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05% 12 744 1.61% 1.24%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *  Avg. number of days to corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13% 0.13%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01% 1.04%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00% 0.69%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39% 0.86% 3.00	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21% 0.93%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08% 1.12%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67% 1.06%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81% 1.02% 3.00	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00% 0.91%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744 3.63% 1.19% 3.00	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39% 1.21%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05% 12 744 1.61% 1.24%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13% 0.13%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01% 1.04%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00% 0.69%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39% 0.86%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21% 0.93%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08% 1.12%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67% 1.06%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81% 1.02%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00% 0.91%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744 3.63% 1.19%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39% 1.21%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05% 12 744 1.61% 1.24%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved % of hours reserved  Days to Correction *  Avg. number of days to correction Avg. number of days to correction Days Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month year-to-date	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13% 0.13% 2.00 2.00	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01% 1.04%	0 743 0.00% 0.23%  0 9,011 0.00% 0.12%  0 743 0.00% 0.69%  0.00 1.50	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39% 0.86% 3.00 2.25	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21% 0.93% 3.00 2.40	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08% 1.12%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67% 1.06% 3.00 2.43	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81% 1.02% 3.00 2.56	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00% 0.91%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744 3.63% 1.19% 3.00 2.64	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39% 1.21% 0.00 1.38	0 744 0.00% 0.17% 0 9,083 0.00% 0.05% 12 744 1.61% 1.24% 0.00 2.64
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13% 0.13%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01% 1.04%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00% 0.69%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39% 0.86% 3.00	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21% 0.93%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08% 1.12%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67% 1.06%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81% 1.02% 3.00	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00% 0.91%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744 3.63% 1.19% 3.00	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39% 1.21%	0 744 0.00% 0.17% 0 9,083 0.00% 0.05% 12 744 1.61% 1.24%

<sup>\*</sup>Calendar days from reservation date; for June 2018 forward, business days from market date







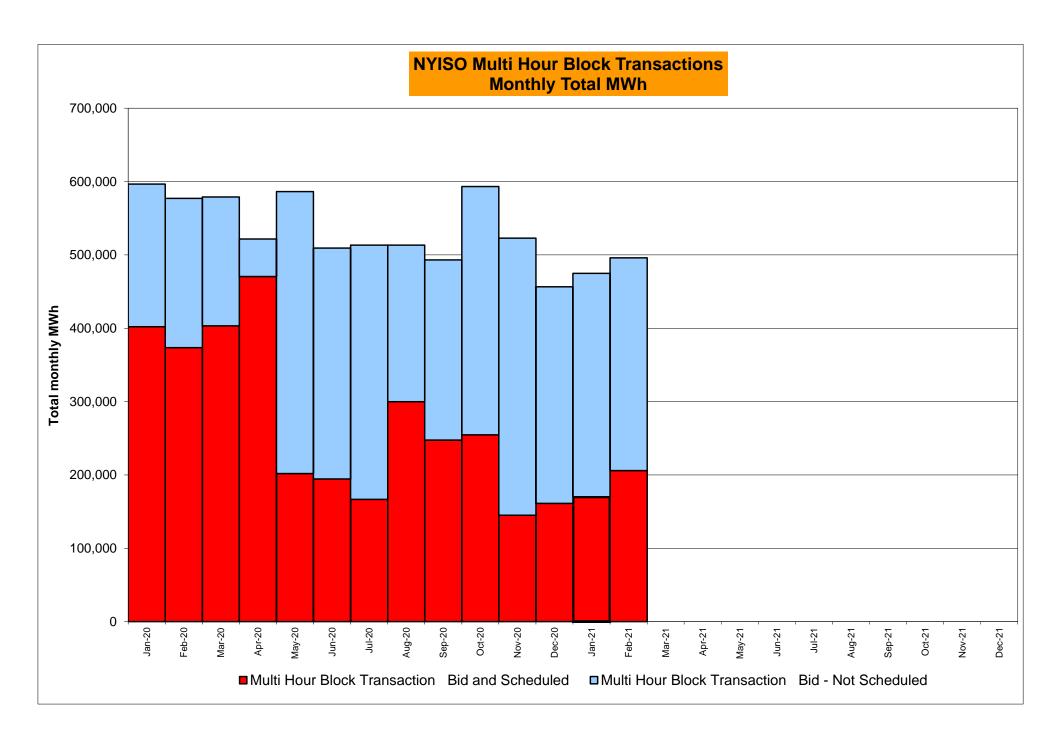


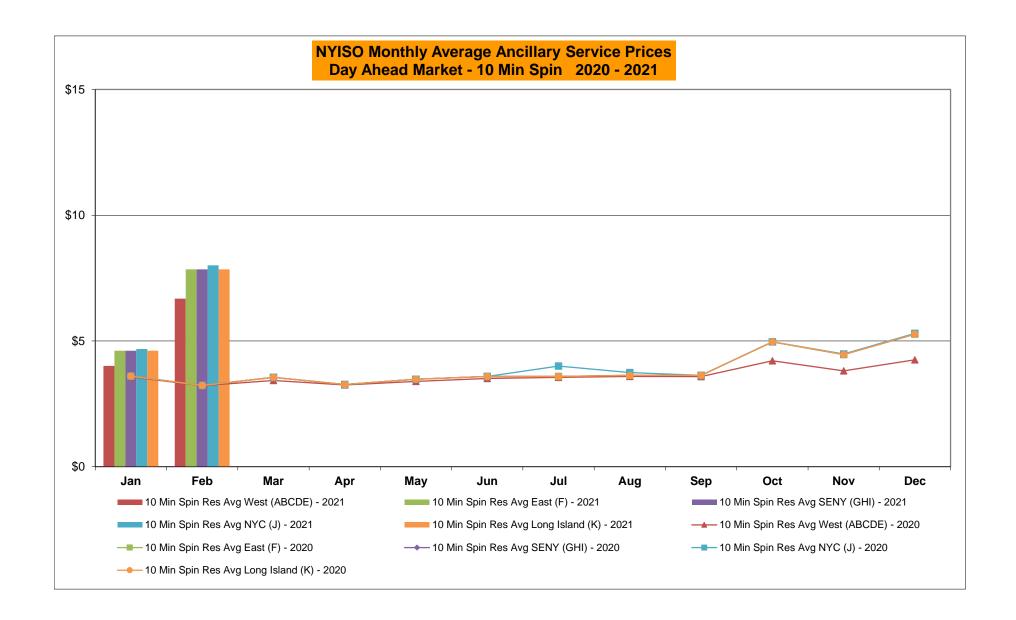
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2021 **Virtual Supply Bid Virtual Load Bid Virtual Supply Bid Virtual Load Bid Virtual Supply Bid Virtual Load Bid** Not Not Not Not Not Not Zone Date Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled DUNWOD WEST MHK VL 6,262 2,018 1,076 Jan-21 Jan-21 1,881 2,339 2,000 Jan-21 1,726 1,537 548 1,967 531 475 2,015 Feb-21 4,588 1,544 1,842 959 Feb-21 1,031 584 2,081 392 Feb-21 912 1,806 568 Mar-21 Mar-21 Mar-21 Apr-21 Apr-21 Apr-21 May-21 May-21 May-21 Jun-21 Jun-21 Jun-21 Jul-21 Jul-21 Jul-21 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 329 853 CAPITL Jan-21 2,207 792 N.Y.C. Jan-21 2,580 2,503 Jan-21 1,117 1,085 3,046 1,995 3,486 679 Feb-21 390 1,310 617 Feb-21 2.483 2,065 Feb-21 1.983 2,475 2,275 678 857 1,967 535 Mar-21 Mar-21 Mar-21 Apr-21 Apr-21 Apr-21 May-21 May-21 May-21 Jun-21 Jun-21 Jun-21 Jul-21 Jul-21 Jul-21 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 830 498 3,280 HUD VL 7,429 LONGIL 4,976 Jan-21 1,220 Jan-21 1,666 1,215 5,917 Jan-21 4,341 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 Mar-21 Mar-21 Apr-21 Apr-21 Apr-21 May-21 May-21 May-21 Jun-21 Jun-21 Jun-21 Jul-21 Jul-21 Jul-21 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 Mar-21 Mar-21 Apr-21 Apr-21 Apr-21 May-21 May-21 May-21 Jun-21 Jun-21 Jun-21 Jul-21 Jul-21 Jul-21 Aug-21 Aug-21 Aug-21 Sep-21 Sep-21 Sep-21 Oct-21 Oct-21 Oct-21 Nov-21 Nov-21 Nov-21

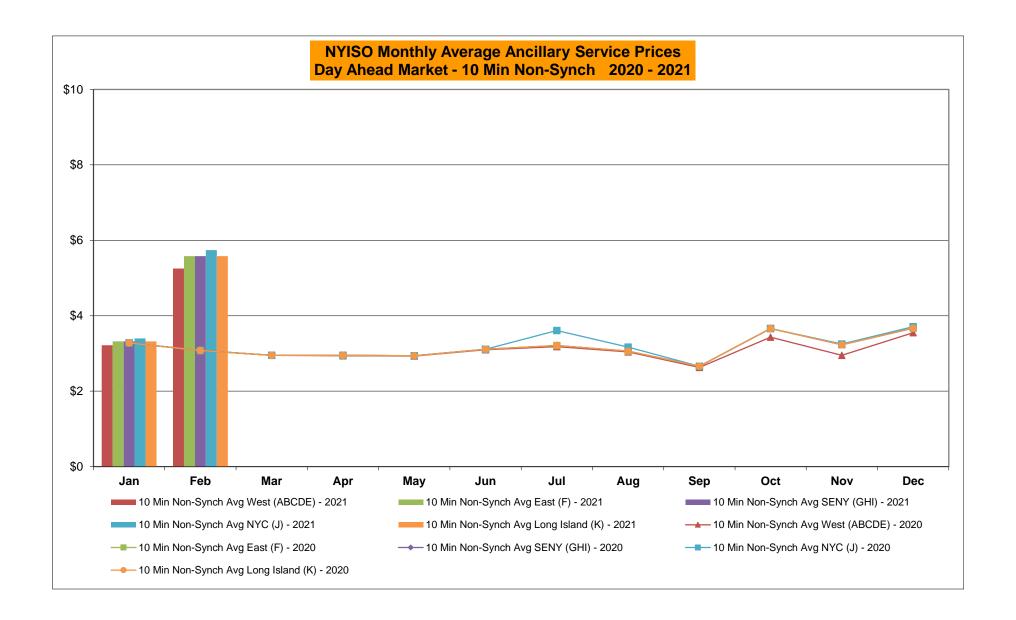
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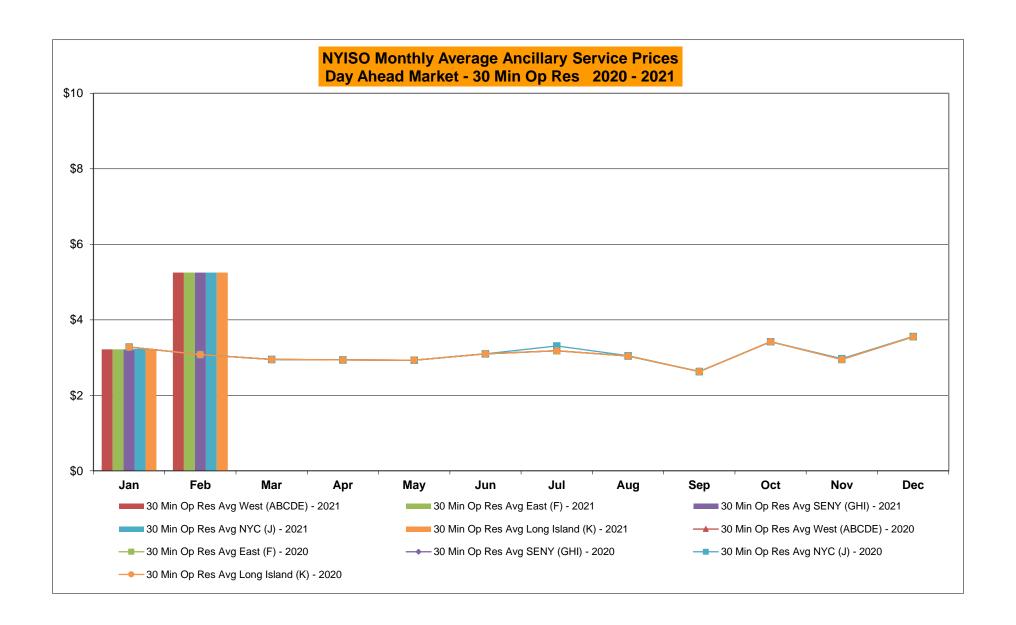
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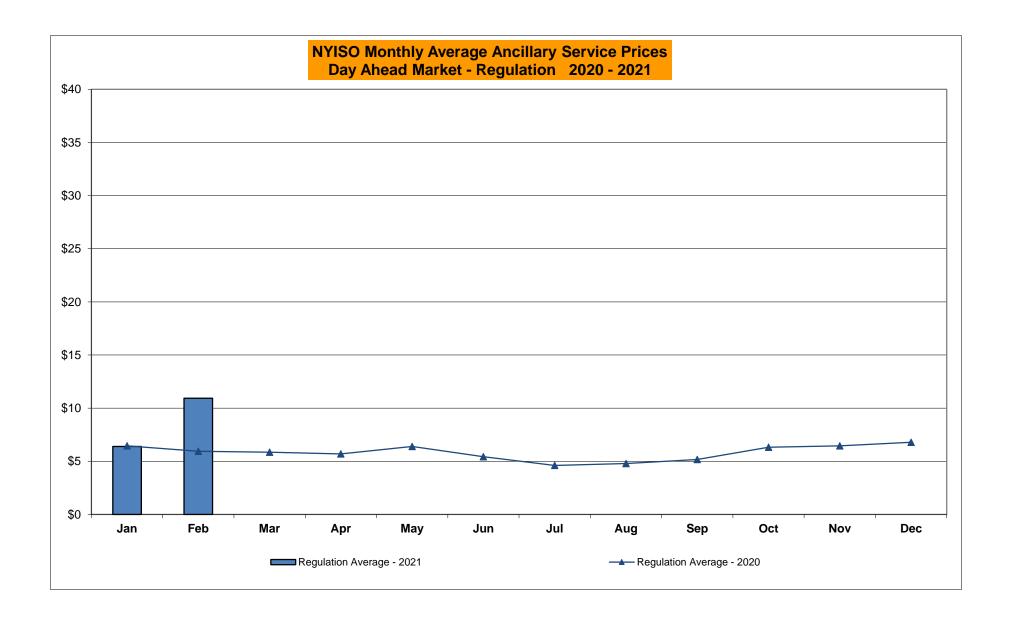
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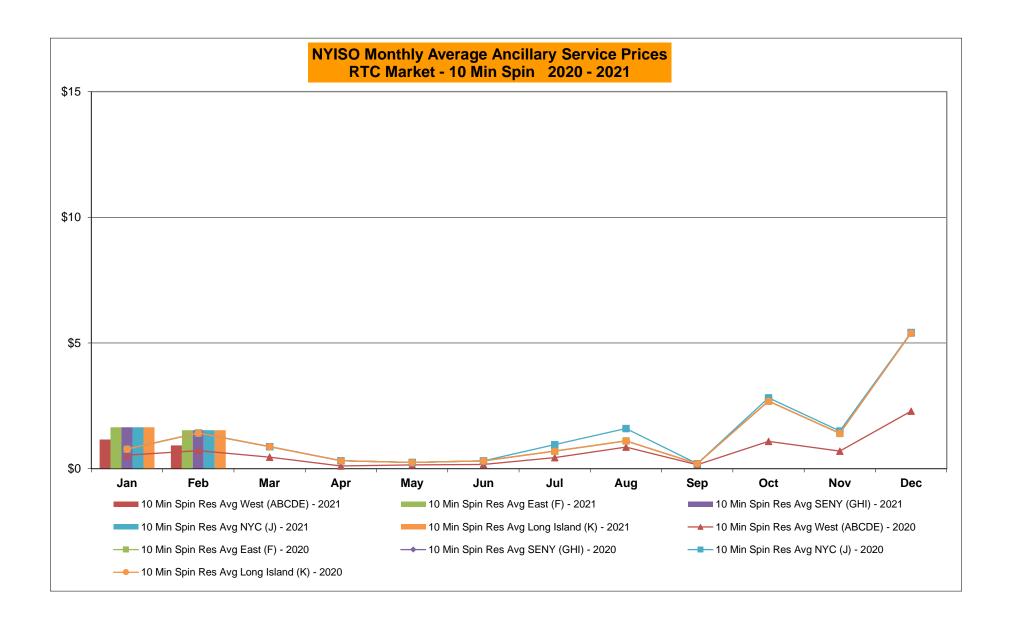


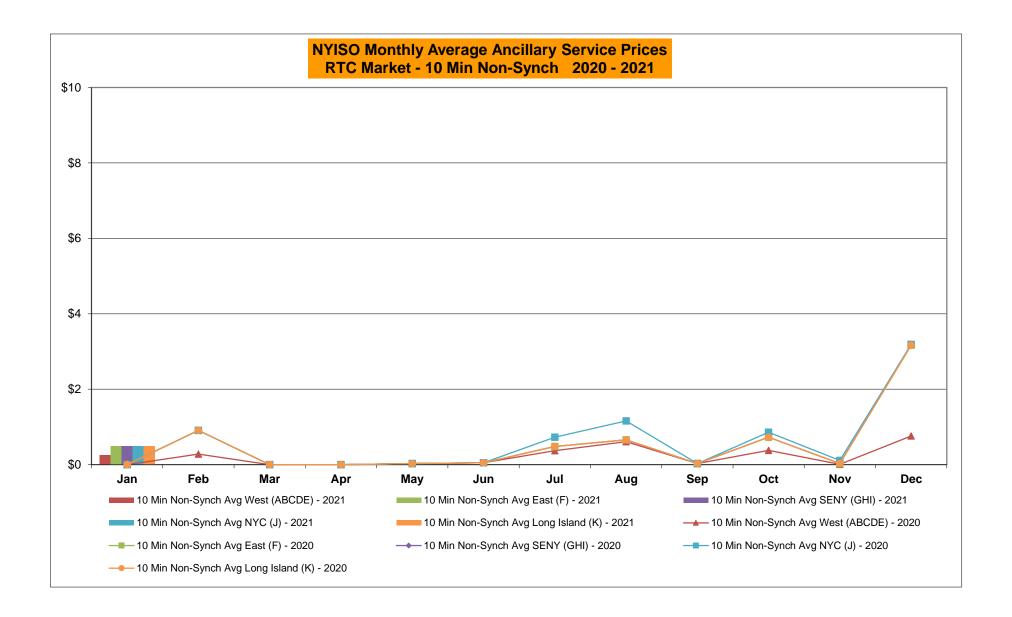


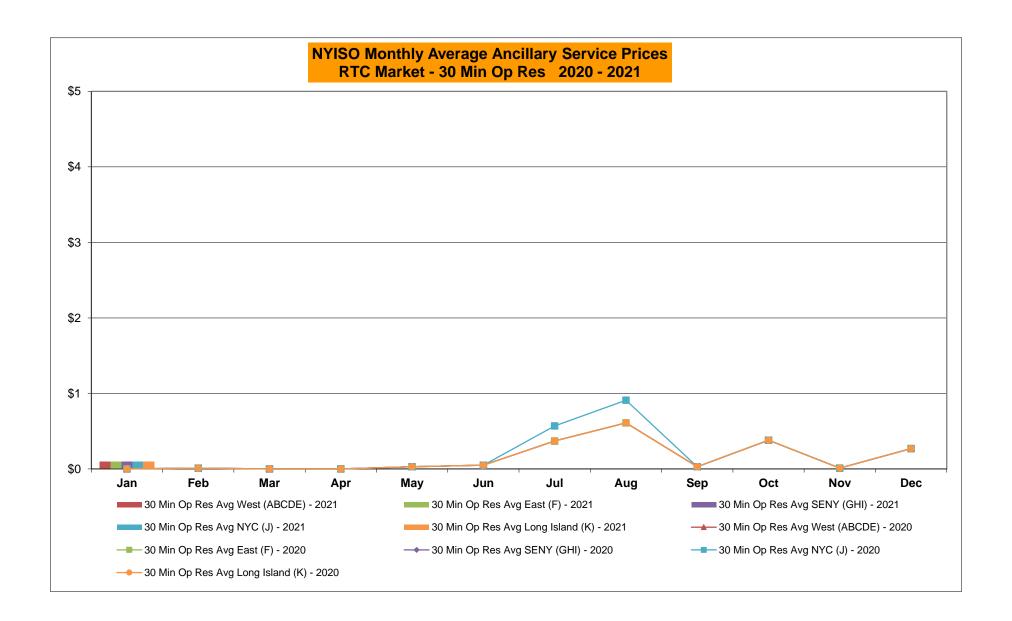


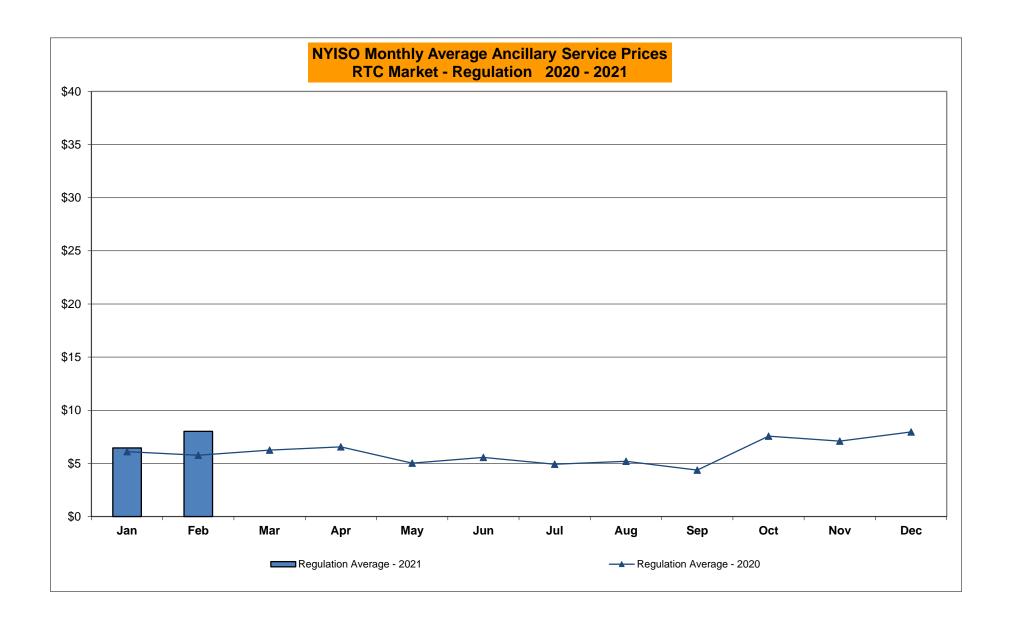


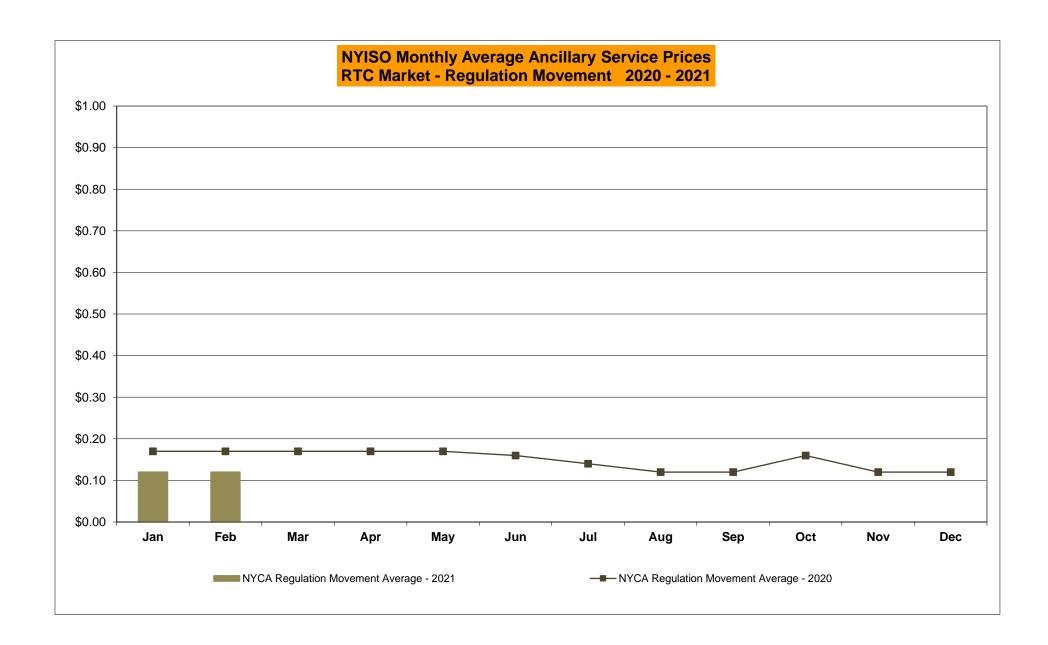


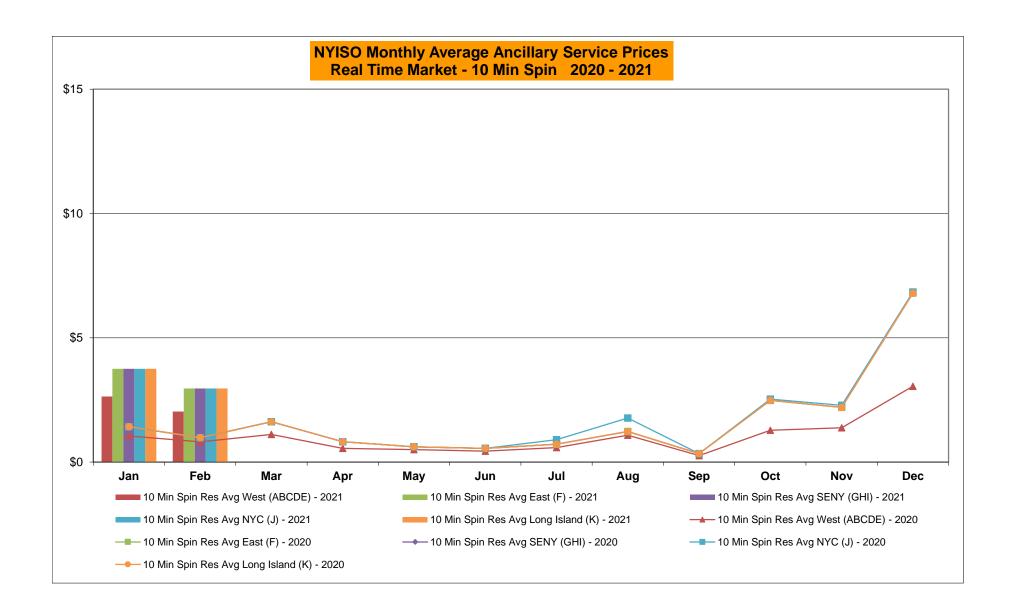


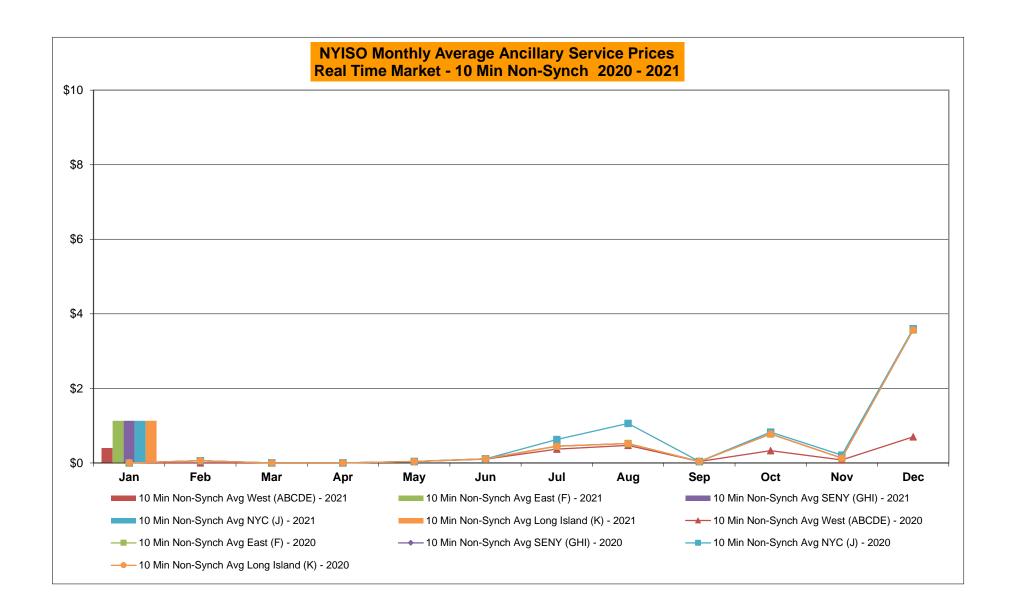


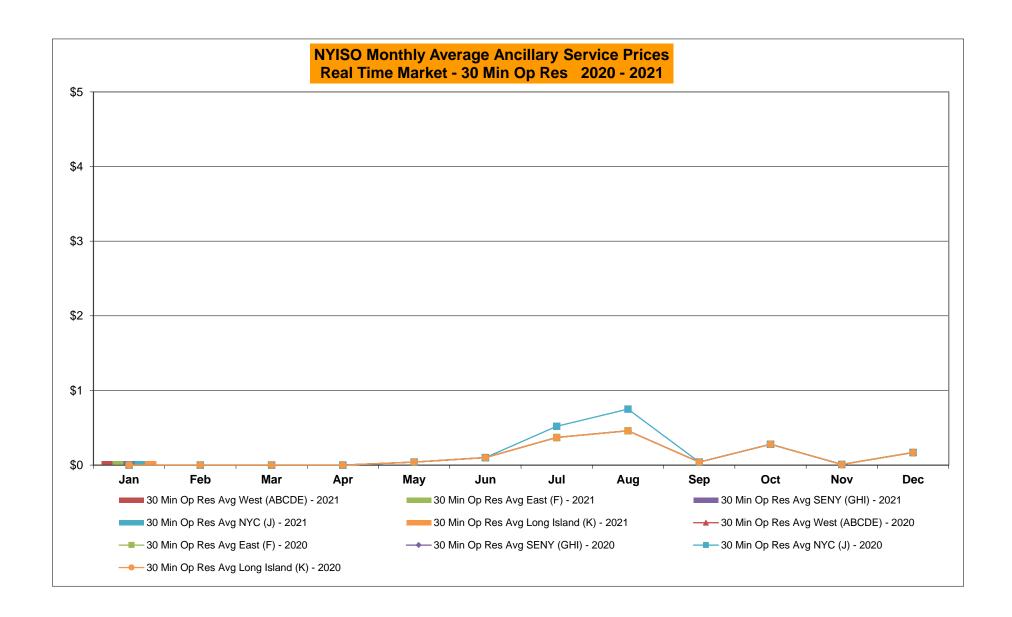


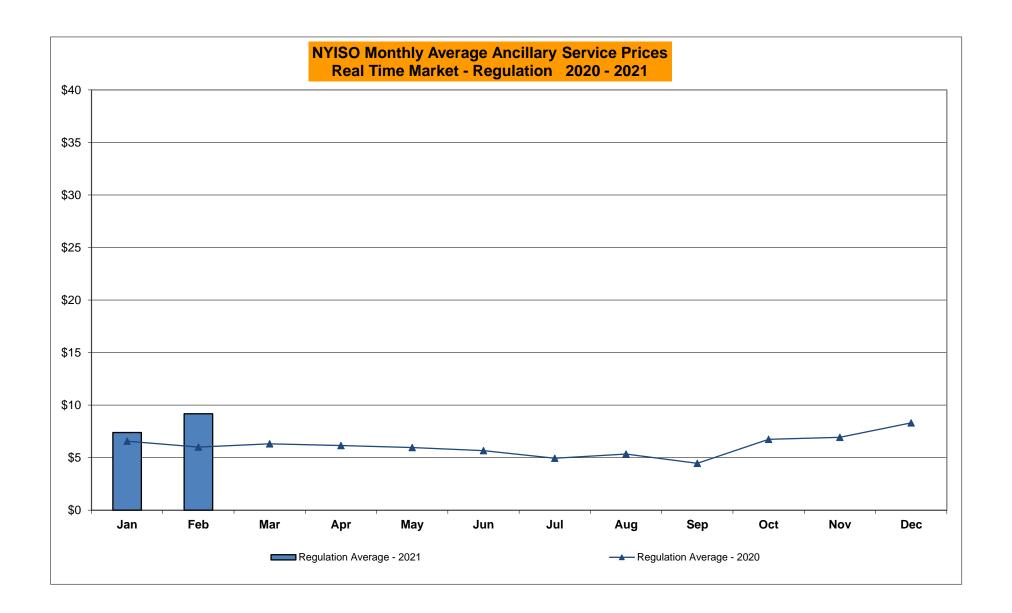


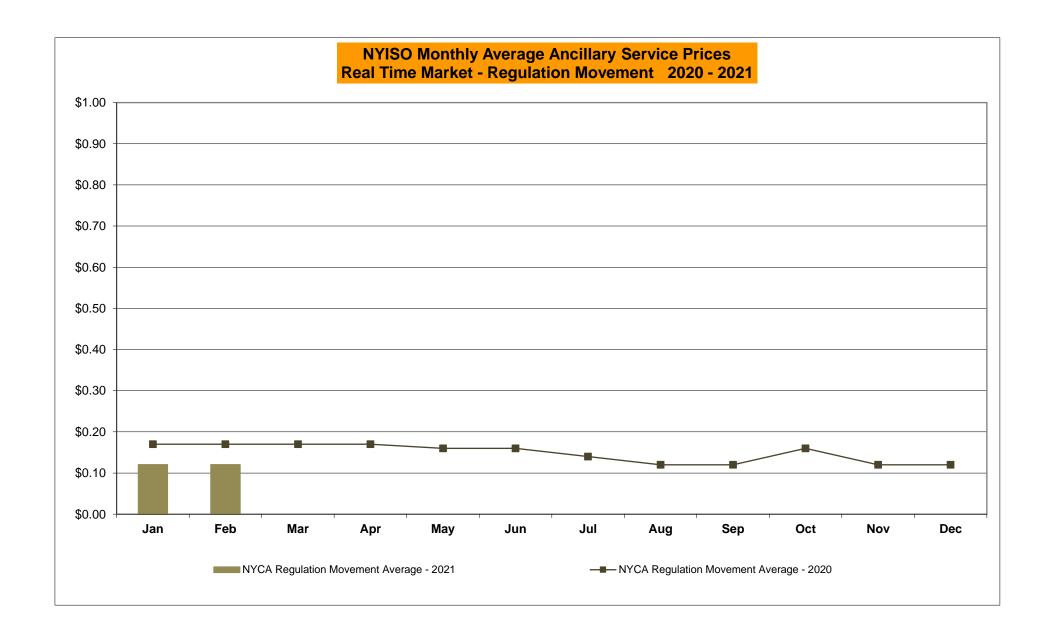












## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - DAM

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>	September	<u>October</u>	November	<u>December</u>
<u>Day Ahead Market</u> 10 Min Spin Long Island (K)	4.61	7.85										
10 Min Spin NYC (J)	4.68	8.01										
10 Min Spin SENY (GHI)	4.61	7.85										
10 Min Spin East (F)	4.61	7.85										
10 Min Spin West (ABCDE)	4.01	6.68										
10 Min Non Synch Long Island (K)	3.32	5.58										
10 Min Non Synch NYC (J)	3.40	5.74										
10 Min Non Synch SENY (GHI)	3.32	5.58										
10 Min Non Synch East (F)	3.32	5.58										
10 Min Non Synch West (ABCDE)	3.22	5.25										
30 Min Long Island (K)	3.22	5.25										
30 Min NYC (J)	3.23	5.25										
30 Min SENY (GHI)	3.22	5.25										
30 Min East (F)	3.22	5.25										
30 Min West (ABCDE)	3.22	5.25										
Regulation	6.40	10.93										
<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>
2020 Day Ahead Market	<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>	November	<u>December</u>
	<u>January</u> 3.60	February 3.23	<u>March</u> 3.55	<u>April</u> 3.27	<u>May</u> 3.48	<u>June</u> 3.59	<u>July</u> 3.59	<u>August</u> 3.63	September 3.63	October 4.96	November 4.46	<u>December</u> 5.27
Day Ahead Market			<del></del>					_				
<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
Day Ahead Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J)	3.60 3.60	3.23 3.23	3.55 3.55	3.27 3.27	3.48 3.48	3.59 3.64	3.59 4.00	3.63 3.74	3.63 3.63	4.96 4.96	4.46 4.48	5.27 5.30
Day Ahead Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	3.60 3.60 3.60	3.23 3.23 3.23 3.23 3.22	3.55 3.55 3.55	3.27 3.27 3.27 3.27 3.25	3.48 3.48 3.48	3.59 3.64 3.59 3.59 3.51	3.59 4.00 3.59	3.63 3.74 3.63 3.63 3.59	3.63 3.63 3.63	4.96 4.96 4.96	4.46 4.48 4.46 4.46 3.81	5.27 5.30 5.27
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)	3.60 3.60 3.60 3.60 3.57 3.28	3.23 3.23 3.23 3.23 3.22 3.08	3.55 3.55 3.55 3.55 3.43 2.95	3.27 3.27 3.27 3.27 3.25 2.95	3.48 3.48 3.48 3.48 3.39 2.94	3.59 3.64 3.59 3.59 3.51 3.11	3.59 4.00 3.59 3.59 3.55 3.21	3.63 3.74 3.63 3.63 3.59 3.06	3.63 3.63 3.63 3.58 2.66	4.96 4.96 4.96 4.21 3.66	4.46 4.48 4.46 4.46 3.81 3.23	5.27 5.30 5.27 5.27 4.25 3.67
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)	3.60 3.60 3.60 3.57 3.28 3.28	3.23 3.23 3.23 3.23 3.22 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95	3.48 3.48 3.48 3.48 3.39 2.94 2.94	3.59 3.64 3.59 3.59 3.51 3.11 3.17	3.59 4.00 3.59 3.59 3.55 3.21 3.61	3.63 3.74 3.63 3.63 3.59 3.06 3.17	3.63 3.63 3.63 3.58 2.66 2.66	4.96 4.96 4.96 4.21 3.66 3.66	4.46 4.48 4.46 4.46 3.81 3.23 3.25	5.27 5.30 5.27 5.27 4.25 3.67 3.71
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)	3.60 3.60 3.60 3.57 3.28 3.28 3.28	3.23 3.23 3.23 3.23 3.22 3.08 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95 2.95	3.48 3.48 3.48 3.39 2.94 2.94 2.94	3.59 3.64 3.59 3.59 3.51 3.11 3.17 3.11	3.59 4.00 3.59 3.59 3.55 3.21 3.61 3.21	3.63 3.74 3.63 3.63 3.59 3.06 3.17 3.06	3.63 3.63 3.63 3.58 2.66 2.66	4.96 4.96 4.96 4.21 3.66 3.66 3.66	4.46 4.48 4.46 4.46 3.81 3.23 3.25 3.25	5.27 5.30 5.27 5.27 4.25 3.67 3.71 3.67
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)	3.60 3.60 3.60 3.57 3.28 3.28 3.28 3.28	3.23 3.23 3.23 3.23 3.22 3.08 3.08 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95 2.95 2.95	3.48 3.48 3.48 3.48 3.39 2.94 2.94 2.94	3.59 3.64 3.59 3.59 3.51 3.11 3.17 3.11	3.59 4.00 3.59 3.59 3.55 3.21 3.61 3.21 3.21	3.63 3.74 3.63 3.63 3.59 3.06 3.17 3.06 3.06	3.63 3.63 3.63 3.58 2.66 2.66 2.66 2.66	4.96 4.96 4.96 4.21 3.66 3.66 3.66 3.66	4.46 4.48 4.46 4.46 3.81 3.23 3.25 3.23 3.23	5.27 5.30 5.27 5.27 4.25 3.67 3.71 3.67 3.67
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)	3.60 3.60 3.60 3.57 3.28 3.28 3.28 3.28 3.28	3.23 3.23 3.23 3.23 3.22 3.08 3.08 3.08 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95 2.95 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95 2.95 2.95 2.95	3.48 3.48 3.48 3.39 2.94 2.94 2.94 2.94 2.94 2.93	3.59 3.64 3.59 3.59 3.51 3.11 3.17 3.11 3.11	3.59 4.00 3.59 3.55 3.21 3.61 3.21 3.21 3.18	3.63 3.74 3.63 3.63 3.59 3.06 3.17 3.06 3.06 3.04	3.63 3.63 3.63 3.58 2.66 2.66 2.66 2.66 2.66	4.96 4.96 4.96 4.21 3.66 3.66 3.66 3.43	4.46 4.48 4.46 4.46 3.81 3.23 3.25 3.23 3.23 2.95	5.27 5.30 5.27 5.27 4.25 3.67 3.71 3.67 3.67 3.55
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)	3.60 3.60 3.60 3.57 3.28 3.28 3.28 3.28 3.28 3.28	3.23 3.23 3.23 3.22 3.08 3.08 3.08 3.08 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95 2.95 2.95 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95 2.95 2.95 2.94 2.94	3.48 3.48 3.48 3.39 2.94 2.94 2.94 2.94 2.93 2.93	3.59 3.64 3.59 3.51 3.11 3.17 3.11 3.11 3.10 3.10	3.59 4.00 3.59 3.59 3.55 3.21 3.61 3.21 3.21 3.18 3.18	3.63 3.74 3.63 3.63 3.59 3.06 3.17 3.06 3.06 3.04 3.04	3.63 3.63 3.63 3.58 2.66 2.66 2.66 2.66 2.63 2.63	4.96 4.96 4.96 4.21 3.66 3.66 3.66 3.43 3.42	4.46 4.48 4.46 4.46 3.81 3.23 3.25 3.23 3.23 2.95 2.95	5.27 5.30 5.27 5.27 4.25 3.67 3.71 3.67 3.55 3.55
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min NYC (J)	3.60 3.60 3.60 3.57 3.28 3.28 3.28 3.28 3.28 3.28 3.28	3.23 3.23 3.23 3.23 3.22 3.08 3.08 3.08 3.08 3.08 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95 2.95 2.95 2.95 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95 2.95 2.95 2.94 2.94 2.94	3.48 3.48 3.48 3.39 2.94 2.94 2.94 2.94 2.93 2.93 2.93	3.59 3.64 3.59 3.59 3.51 3.11 3.17 3.11 3.10 3.10 3.10	3.59 4.00 3.59 3.59 3.55 3.21 3.61 3.21 3.21 3.18 3.18 3.31	3.63 3.74 3.63 3.63 3.59 3.06 3.17 3.06 3.06 3.04 3.04 3.04	3.63 3.63 3.63 3.58 2.66 2.66 2.66 2.66 2.63 2.63	4.96 4.96 4.96 4.21 3.66 3.66 3.66 3.43 3.42 3.42	4.46 4.48 4.46 4.46 3.81 3.23 3.25 3.23 2.95 2.95 2.95 2.97	5.27 5.30 5.27 5.27 4.25 3.67 3.71 3.67 3.67 3.55 3.55
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min Long Island (K)  30 Min SENY (GHI)	3.60 3.60 3.60 3.57 3.28 3.28 3.28 3.28 3.28 3.28 3.28 3.28	3.23 3.23 3.23 3.23 3.22 3.08 3.08 3.08 3.08 3.08 3.08 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95 2.95 2.95 2.95 2.95 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95 2.95 2.95 2.94 2.94 2.94 2.94	3.48 3.48 3.48 3.39 2.94 2.94 2.94 2.94 2.93 2.93 2.93 2.93	3.59 3.64 3.59 3.59 3.51 3.11 3.17 3.11 3.10 3.10 3.10 3.10	3.59 4.00 3.59 3.59 3.55 3.21 3.61 3.21 3.21 3.18 3.18 3.31 3.18	3.63 3.74 3.63 3.63 3.59 3.06 3.17 3.06 3.04 3.04 3.04 3.05 3.04	3.63 3.63 3.63 3.58 2.66 2.66 2.66 2.66 2.63 2.63 2.63 2.63	4.96 4.96 4.96 4.21 3.66 3.66 3.66 3.43 3.42 3.42 3.42	4.46 4.48 4.46 4.46 3.81 3.23 3.25 3.23 2.95 2.95 2.97 2.95	5.27 5.30 5.27 5.27 4.25 3.67 3.71 3.67 3.57 3.55 3.55 3.55
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min NYC (J)  30 Min SENY (GHI)  30 Min East (F)	3.60 3.60 3.60 3.57 3.28 3.28 3.28 3.28 3.28 3.28 3.28 3.28	3.23 3.23 3.23 3.22 3.08 3.08 3.08 3.08 3.08 3.08 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95 2.95 2.95 2.95 2.95 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95 2.95 2.95 2.94 2.94 2.94 2.94 2.94	3.48 3.48 3.48 3.39 2.94 2.94 2.94 2.94 2.93 2.93 2.93 2.93 2.93	3.59 3.64 3.59 3.59 3.51 3.11 3.17 3.11 3.10 3.10 3.10 3.10 3.10	3.59 4.00 3.59 3.59 3.55 3.21 3.61 3.21 3.18 3.18 3.18 3.18 3.18	3.63 3.74 3.63 3.63 3.59 3.06 3.17 3.06 3.04 3.04 3.04 3.04 3.04 3.04	3.63 3.63 3.63 3.58 2.66 2.66 2.66 2.63 2.63 2.63 2.63 2.63	4.96 4.96 4.96 4.21 3.66 3.66 3.66 3.43 3.42 3.42 3.42 3.42	4.46 4.48 4.46 4.46 3.81 3.23 3.25 3.23 2.95 2.95 2.95 2.97 2.95 2.95	5.27 5.30 5.27 5.27 4.25 3.67 3.71 3.67 3.55 3.55 3.55 3.55 3.55
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min Long Island (K)  30 Min SENY (GHI)	3.60 3.60 3.60 3.57 3.28 3.28 3.28 3.28 3.28 3.28 3.28 3.28	3.23 3.23 3.23 3.23 3.22 3.08 3.08 3.08 3.08 3.08 3.08 3.08 3.08	3.55 3.55 3.55 3.55 3.43 2.95 2.95 2.95 2.95 2.95 2.95 2.95 2.95	3.27 3.27 3.27 3.27 3.25 2.95 2.95 2.95 2.95 2.94 2.94 2.94 2.94	3.48 3.48 3.48 3.39 2.94 2.94 2.94 2.94 2.93 2.93 2.93 2.93	3.59 3.64 3.59 3.59 3.51 3.11 3.17 3.11 3.10 3.10 3.10 3.10	3.59 4.00 3.59 3.59 3.55 3.21 3.61 3.21 3.21 3.18 3.18 3.31 3.18	3.63 3.74 3.63 3.63 3.59 3.06 3.17 3.06 3.04 3.04 3.04 3.05 3.04	3.63 3.63 3.63 3.58 2.66 2.66 2.66 2.66 2.63 2.63 2.63 2.63	4.96 4.96 4.96 4.21 3.66 3.66 3.66 3.43 3.42 3.42 3.42	4.46 4.48 4.46 4.46 3.81 3.23 3.25 3.23 2.95 2.95 2.97 2.95	5.27 5.30 5.27 5.27 4.25 3.67 3.71 3.67 3.57 3.55 3.55 3.55

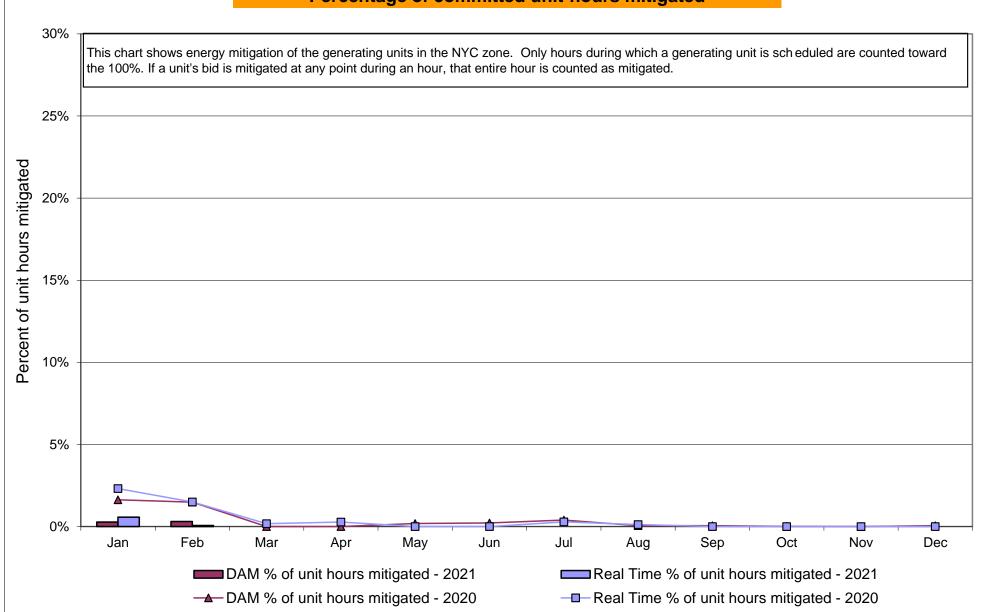
# NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RTC

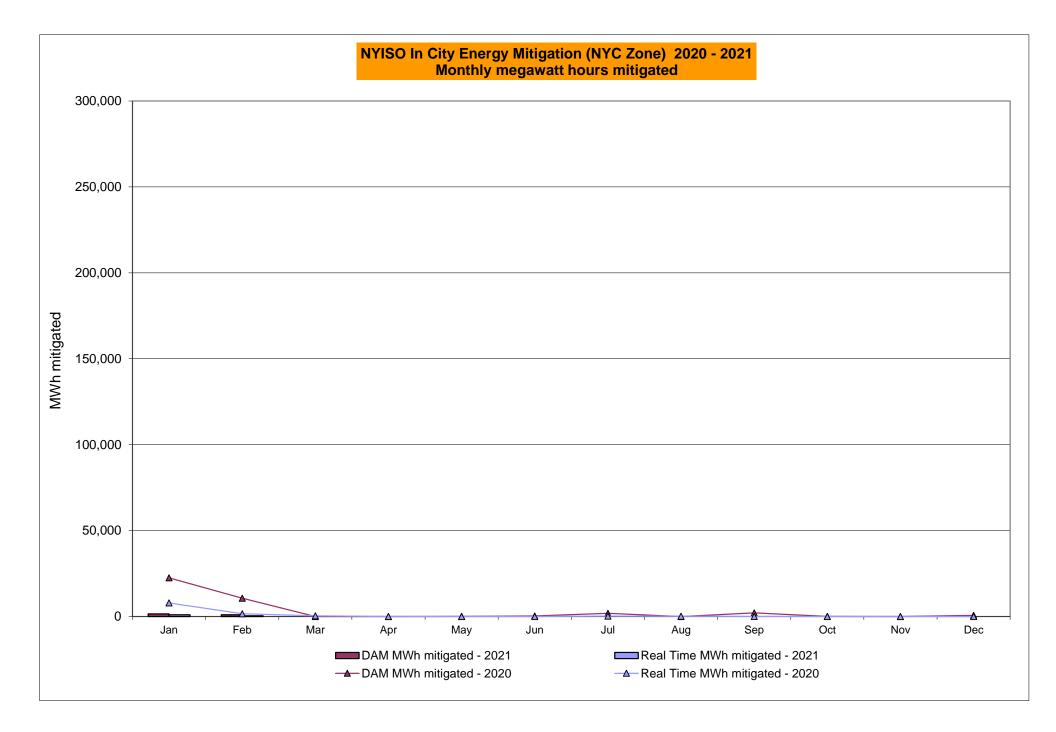
2021	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
RTC Market	4.05	4.50										
10 Min Spin Long Island (K)	1.65	1.53										
10 Min Spin NYC (J)	1.65	1.53										
10 Min Spin SENY (GHI)	1.65	1.53										
10 Min Spin East (F)	1.65	1.53										
10 Min Spin West (ABCDE)	1.16	0.93										
10 Min Non Synch Long Island (K)	0.49	0.00										
10 Min Non Synch NYC (J)	0.49	0.00										
10 Min Non Synch SENY (GHI)	0.49	0.00										
10 Min Non Synch East (F)	0.49	0.00										
10 Min Non Synch West (ABCDE)	0.26	0.00										
30 Min Long Island (K)	0.10	0.00										
30 Min NYC (J)	0.10	0.00										
30 Min SENY (GHI)	0.10	0.00										
30 Min East (F)	0.10	0.00										
30 Min West (ABCDE)	0.10	0.00										
Regulation	6.46	8.02										
NYCA Regulation Movement	0.12	0.12										
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>	November	<u>December</u>
RTC Market	-								·			
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
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J)	0.78 0.78	1.42 1.46	0.88 0.88	0.32 0.32	0.25 0.26	0.31 0.31	0.70 0.96	1.11 1.60	0.20 0.20	2.69 2.82	1.41 1.50	5.40 5.42
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)	0.78 0.78 0.78	1.42 1.46 1.42	0.88 0.88 0.88	0.32 0.32 0.32	0.25 0.26 0.25	0.31 0.31 0.31	0.70 0.96 0.70	1.11 1.60 1.11	0.20 0.20 0.20	2.69 2.82 2.69	1.41 1.50 1.41	5.40 5.42 5.40
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)	0.78 0.78 0.78 0.78	1.42 1.46 1.42 1.42	0.88 0.88	0.32 0.32 0.32 0.32	0.25 0.26 0.25 0.25	0.31 0.31 0.31 0.31	0.70 0.96 0.70 0.70	1.11 1.60 1.11 1.11	0.20 0.20 0.20 0.20	2.69 2.82 2.69 2.69	1.41 1.50 1.41 1.41	5.40 5.42 5.40 5.40
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)	0.78 0.78 0.78	1.42 1.46 1.42	0.88 0.88 0.88	0.32 0.32 0.32	0.25 0.26 0.25	0.31 0.31 0.31	0.70 0.96 0.70	1.11 1.60 1.11	0.20 0.20 0.20	2.69 2.82 2.69	1.41 1.50 1.41	5.40 5.42 5.40 5.40 2.29
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)	0.78 0.78 0.78 0.78	1.42 1.46 1.42 1.42	0.88 0.88 0.88 0.88	0.32 0.32 0.32 0.32	0.25 0.26 0.25 0.25	0.31 0.31 0.31 0.31	0.70 0.96 0.70 0.70	1.11 1.60 1.11 1.11	0.20 0.20 0.20 0.20	2.69 2.82 2.69 2.69	1.41 1.50 1.41 1.41	5.40 5.42 5.40 5.40 2.29 3.17
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	0.78 0.78 0.78 0.78 0.78	1.42 1.46 1.42 1.42 0.72	0.88 0.88 0.88 0.88 0.46	0.32 0.32 0.32 0.32 0.11	0.25 0.26 0.25 0.25 0.15	0.31 0.31 0.31 0.31 0.17	0.70 0.96 0.70 0.70 0.44	1.11 1.60 1.11 1.11 0.86	0.20 0.20 0.20 0.20 0.20 0.16	2.69 2.82 2.69 2.69 1.09	1.41 1.50 1.41 1.41 0.70	5.40 5.42 5.40 5.40 2.29
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K)	0.78 0.78 0.78 0.78 0.54 0.00	1.42 1.46 1.42 1.42 0.72 0.91	0.88 0.88 0.88 0.88 0.46 0.00	0.32 0.32 0.32 0.32 0.11 0.00	0.25 0.26 0.25 0.25 0.15 0.03	0.31 0.31 0.31 0.31 0.17 0.05	0.70 0.96 0.70 0.70 0.44 0.48	1.11 1.60 1.11 1.11 0.86 0.66	0.20 0.20 0.20 0.20 0.16 0.03	2.69 2.82 2.69 2.69 1.09 0.73	1.41 1.50 1.41 1.41 0.70 0.03	5.40 5.42 5.40 5.40 2.29 3.17
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)	0.78 0.78 0.78 0.78 0.54 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95	0.88 0.88 0.88 0.46 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00	0.25 0.26 0.25 0.25 0.15 0.03	0.31 0.31 0.31 0.31 0.17 0.05 0.06	0.70 0.96 0.70 0.70 0.44 0.48 0.73	1.11 1.60 1.11 1.11 0.86 0.66 1.16	0.20 0.20 0.20 0.20 0.16 0.03 0.03	2.69 2.82 2.69 2.69 1.09 0.73 0.86	1.41 1.50 1.41 1.41 0.70 0.03 0.11	5.40 5.42 5.40 5.40 2.29 3.17 3.19
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)	0.78 0.78 0.78 0.78 0.54 0.00 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95 0.91	0.88 0.88 0.88 0.46 0.00 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00	0.25 0.26 0.25 0.25 0.15 0.03 0.04 0.03	0.31 0.31 0.31 0.31 0.17 0.05 0.06 0.05	0.70 0.96 0.70 0.70 0.44 0.48 0.73 0.48	1.11 1.60 1.11 1.11 0.86 0.66 1.16 0.66	0.20 0.20 0.20 0.20 0.16 0.03 0.03	2.69 2.82 2.69 2.69 1.09 0.73 0.86 0.73	1.41 1.50 1.41 1.41 0.70 0.03 0.11 0.03	5.40 5.42 5.40 5.40 2.29 3.17 3.19 3.17
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F)	0.78 0.78 0.78 0.78 0.54 0.00 0.00 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95 0.91	0.88 0.88 0.88 0.46 0.00 0.00 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00 0.00	0.25 0.26 0.25 0.25 0.15 0.03 0.04 0.03 0.03	0.31 0.31 0.31 0.31 0.17 0.05 0.06 0.05	0.70 0.96 0.70 0.70 0.44 0.48 0.73 0.48	1.11 1.60 1.11 1.11 0.86 0.66 1.16 0.66 0.66	0.20 0.20 0.20 0.20 0.16 0.03 0.03 0.03	2.69 2.82 2.69 2.69 1.09 0.73 0.86 0.73 0.73	1.41 1.50 1.41 1.41 0.70 0.03 0.11 0.03 0.03	5.40 5.42 5.40 5.40 2.29 3.17 3.19 3.17 3.17
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	0.78 0.78 0.78 0.78 0.54 0.00 0.00 0.00 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95 0.91 0.91 0.28	0.88 0.88 0.88 0.46 0.00 0.00 0.00 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00 0.00 0.00	0.25 0.26 0.25 0.25 0.15 0.03 0.04 0.03 0.03 0.03	0.31 0.31 0.31 0.31 0.17 0.05 0.06 0.05 0.05	0.70 0.96 0.70 0.70 0.44 0.48 0.73 0.48 0.48	1.11 1.60 1.11 1.11 0.86 0.66 1.16 0.66 0.66 0.61	0.20 0.20 0.20 0.20 0.16 0.03 0.03 0.03 0.03	2.69 2.82 2.69 2.69 1.09 0.73 0.86 0.73 0.73 0.38	1.41 1.50 1.41 1.41 0.70 0.03 0.11 0.03 0.03	5.40 5.42 5.40 5.40 2.29 3.17 3.19 3.17 3.17 0.76
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)	0.78 0.78 0.78 0.78 0.54 0.00 0.00 0.00 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95 0.91 0.91 0.28 0.01	0.88 0.88 0.88 0.46 0.00 0.00 0.00 0.00 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00 0.00 0.00 0.00	0.25 0.26 0.25 0.25 0.15 0.03 0.04 0.03 0.03 0.03 0.03	0.31 0.31 0.31 0.37 0.17 0.05 0.06 0.05 0.05 0.05	0.70 0.96 0.70 0.70 0.44 0.48 0.73 0.48 0.48 0.37	1.11 1.60 1.11 1.11 0.86 0.66 1.16 0.66 0.66 0.61	0.20 0.20 0.20 0.20 0.16 0.03 0.03 0.03 0.03 0.03	2.69 2.82 2.69 2.69 1.09 0.73 0.86 0.73 0.73 0.38	1.41 1.50 1.41 1.41 0.70 0.03 0.11 0.03 0.01 0.01	5.40 5.42 5.40 5.40 2.29 3.17 3.19 3.17 0.76 0.27
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min NYC (J)	0.78 0.78 0.78 0.78 0.54 0.00 0.00 0.00 0.00 0.00 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95 0.91 0.91 0.28 0.01 0.01	0.88 0.88 0.88 0.46 0.00 0.00 0.00 0.00 0.00 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00 0.00 0.00 0.00 0.00	0.25 0.26 0.25 0.25 0.15 0.03 0.04 0.03 0.03 0.03 0.03 0.03	0.31 0.31 0.31 0.17 0.05 0.06 0.05 0.05 0.05 0.05	0.70 0.96 0.70 0.70 0.44 0.48 0.73 0.48 0.48 0.37 0.37	1.11 1.60 1.11 1.11 0.86 0.66 1.16 0.66 0.66 0.61 0.61	0.20 0.20 0.20 0.20 0.16 0.03 0.03 0.03 0.03 0.03	2.69 2.82 2.69 2.69 1.09 0.73 0.86 0.73 0.73 0.38 0.38	1.41 1.50 1.41 1.41 0.70 0.03 0.11 0.03 0.03 0.01 0.01	5.40 5.42 5.40 5.40 2.29 3.17 3.19 3.17 0.76 0.27 0.27
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min Long Island (K)  30 Min SENY (GHI)	0.78 0.78 0.78 0.78 0.54 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95 0.91 0.91 0.28 0.01 0.01	0.88 0.88 0.88 0.46 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.25 0.26 0.25 0.25 0.15 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03	0.31 0.31 0.31 0.37 0.05 0.06 0.05 0.05 0.05 0.05 0.05 0.05	0.70 0.96 0.70 0.70 0.44 0.48 0.73 0.48 0.48 0.37 0.37 0.57	1.11 1.60 1.11 1.11 0.86 0.66 1.16 0.66 0.66 0.61 0.61	0.20 0.20 0.20 0.20 0.16 0.03 0.03 0.03 0.03 0.03 0.03	2.69 2.82 2.69 2.69 1.09 0.73 0.86 0.73 0.73 0.38 0.38	1.41 1.50 1.41 1.41 0.70 0.03 0.11 0.03 0.03 0.01 0.01 0.01	5.40 5.42 5.40 5.40 2.29 3.17 3.19 3.17 0.76 0.27 0.27 0.27
RTC Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min NYC (J)  30 Min SENY (GHI)  30 Min SENY (GHI)	0.78 0.78 0.78 0.78 0.54 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95 0.91 0.91 0.28 0.01 0.01 0.01	0.88 0.88 0.88 0.46 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.25 0.26 0.25 0.25 0.15 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03	0.31 0.31 0.31 0.17 0.05 0.06 0.05 0.05 0.05 0.05 0.05 0.05	0.70 0.96 0.70 0.70 0.44 0.48 0.73 0.48 0.48 0.37 0.37 0.57	1.11 1.60 1.11 1.11 0.86 0.66 1.16 0.66 0.61 0.61 0.61 0.61	0.20 0.20 0.20 0.20 0.16 0.03 0.03 0.03 0.03 0.03 0.03 0.03	2.69 2.82 2.69 2.69 1.09 0.73 0.86 0.73 0.73 0.38 0.38	1.41 1.50 1.41 1.41 0.70 0.03 0.11 0.03 0.01 0.01 0.01	5.40 5.42 5.40 5.40 2.29 3.17 3.19 3.17 0.76 0.27 0.27 0.27 0.27

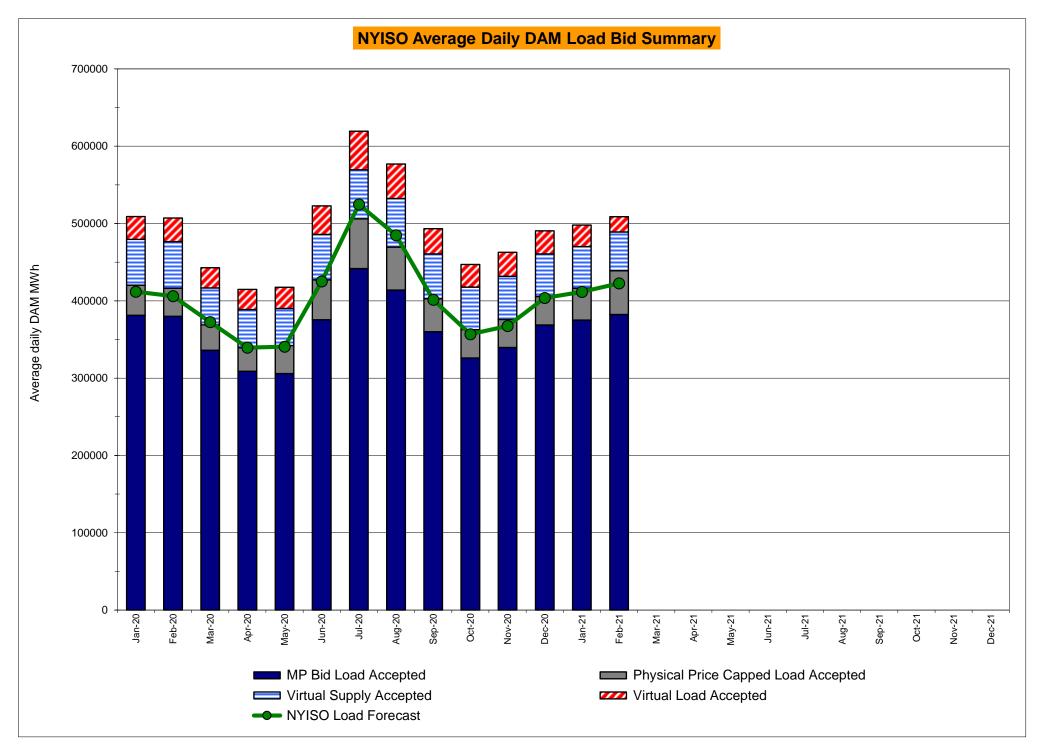
# NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

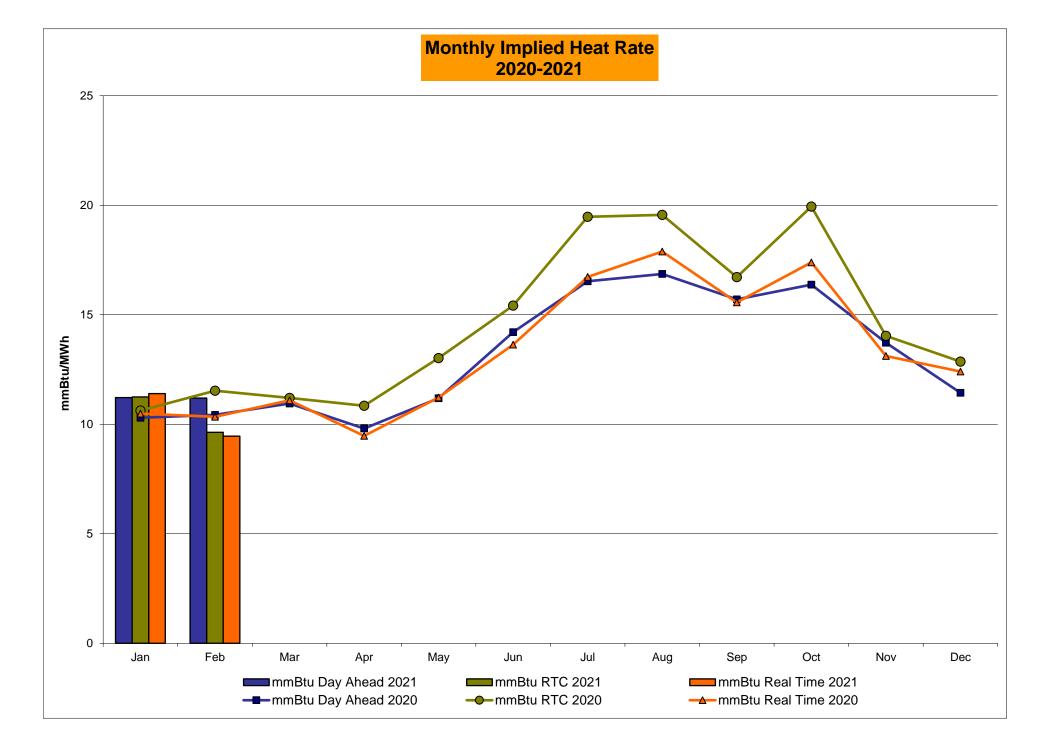
2021 Real Time Market	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
10 Min Spin Long Island (K)	3.75	2.96										
10 Min Spin NYC (J)	3.75	2.96										
10 Min Spin SENY (GHI)	3.75	2.96										
10 Min Spin East (F)	3.75	2.96										
10 Min Spin West (ABCDE)	2.64	2.03										
10 Min Non Synch Long Island (K)	1.13	0.02										
10 Min Non Synch NYC (J)	1.13	0.02										
10 Min Non Synch SENY (GHI)	1.13	0.02										
10 Min Non Synch East (F)	1.13	0.02										
10 Min Non Synch West (ABCDE)	0.40	0.00										
30 Min Long Island (K)	0.05	0.00										
30 Min NYC (J)	0.05	0.00										
30 Min SENY (GHI)	0.05	0.00										
30 Min East (F)	0.05	0.00										
30 Min West (ABCDE)	0.05	0.00										
Regulation	7.39	9.17										
NYCA Regulation Movement	0.12	0.12										
•												
<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>
2020 Real Time Market	·			- -				_	·			
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
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J)	1.42 1.42	0.98 0.98	1.62 1.62	0.82 0.82	0.61 0.63	0.55 0.56	0.72 0.90	1.23 1.77	0.34 0.34	2.48 2.53	2.20 2.28	6.80 6.84
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI)	1.42 1.42 1.42	0.98 0.98 0.98	1.62 1.62 1.62	0.82 0.82 0.82	0.61 0.63 0.61	0.55 0.56 0.55	0.72 0.90 0.72	1.23 1.77 1.23	0.34 0.34 0.34	2.48 2.53 2.48	2.20 2.28 2.20	6.80 6.84 6.80
Real Time Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)	1.42 1.42 1.42 1.42	0.98 0.98 0.98 0.98	1.62 1.62 1.62 1.62	0.82 0.82 0.82 0.82	0.61 0.63 0.61 0.61	0.55 0.56 0.55 0.55	0.72 0.90 0.72 0.72	1.23 1.77 1.23 1.23	0.34 0.34 0.34 0.34	2.48 2.53 2.48 2.48	2.20 2.28 2.20 2.20	6.80 6.84 6.80 6.80
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	1.42 1.42 1.42 1.42 1.05	0.98 0.98 0.98 0.98 0.81	1.62 1.62 1.62 1.62 1.11	0.82 0.82 0.82 0.82 0.55	0.61 0.63 0.61 0.61 0.50	0.55 0.56 0.55 0.55 0.44	0.72 0.90 0.72 0.72 0.58	1.23 1.77 1.23 1.23 1.08	0.34 0.34 0.34 0.34 0.26	2.48 2.53 2.48 2.48 1.28	2.20 2.28 2.20 2.20 1.38	6.80 6.84 6.80 6.80 3.05
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K)	1.42 1.42 1.42 1.42 1.05 0.00	0.98 0.98 0.98 0.98 0.81 0.06	1.62 1.62 1.62 1.62 1.11 0.00	0.82 0.82 0.82 0.82 0.55 0.00	0.61 0.63 0.61 0.61 0.50 0.04	0.55 0.56 0.55 0.55 0.44 0.11	0.72 0.90 0.72 0.72 0.58 0.45	1.23 1.77 1.23 1.23 1.08 0.52	0.34 0.34 0.34 0.34 0.26 0.04	2.48 2.53 2.48 2.48 1.28 0.78	2.20 2.28 2.20 2.20 1.38 0.13	6.80 6.84 6.80 6.80 3.05 3.57
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J)	1.42 1.42 1.42 1.42 1.05 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06	1.62 1.62 1.62 1.62 1.11 0.00 0.00	0.82 0.82 0.82 0.82 0.55 0.00	0.61 0.63 0.61 0.61 0.50 0.04	0.55 0.56 0.55 0.55 0.44 0.11	0.72 0.90 0.72 0.72 0.58 0.45 0.63	1.23 1.77 1.23 1.23 1.08 0.52 1.06	0.34 0.34 0.34 0.34 0.26 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83	2.20 2.28 2.20 2.20 1.38 0.13 0.21	6.80 6.84 6.80 6.80 3.05 3.57 3.60
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI)	1.42 1.42 1.42 1.42 1.05 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00	0.82 0.82 0.82 0.82 0.55 0.00 0.00	0.61 0.63 0.61 0.61 0.50 0.04 0.07	0.55 0.56 0.55 0.55 0.44 0.11 0.12	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52	0.34 0.34 0.34 0.34 0.26 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F)	1.42 1.42 1.42 1.42 1.05 0.00 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06 0.06	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00	0.82 0.82 0.82 0.82 0.55 0.00 0.00 0.00	0.61 0.63 0.61 0.61 0.50 0.04 0.07 0.04	0.55 0.56 0.55 0.55 0.44 0.11 0.12 0.11	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52 0.52	0.34 0.34 0.34 0.34 0.26 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78 0.78	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13 0.13	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	1.42 1.42 1.42 1.42 1.05 0.00 0.00 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06 0.06 0.06	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00 0.00	0.82 0.82 0.82 0.82 0.55 0.00 0.00 0.00 0.00	0.61 0.63 0.61 0.61 0.50 0.04 0.07 0.04 0.04	0.55 0.56 0.55 0.55 0.44 0.11 0.12 0.11 0.11	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45 0.45 0.37	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52 0.52 0.47	0.34 0.34 0.34 0.34 0.26 0.04 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78 0.78 0.33	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13 0.13 0.08	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57 3.57
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K)	1.42 1.42 1.42 1.05 0.00 0.00 0.00 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06 0.06 0.06	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00 0.00 0.00	0.82 0.82 0.82 0.82 0.55 0.00 0.00 0.00 0.00 0.00	0.61 0.63 0.61 0.61 0.50 0.04 0.07 0.04 0.04 0.04	0.55 0.56 0.55 0.55 0.44 0.11 0.12 0.11 0.11 0.10 0.10	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45 0.45 0.37	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52 0.52 0.47 0.46	0.34 0.34 0.34 0.26 0.04 0.04 0.04 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78 0.78 0.33 0.28	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13 0.013 0.08 0.01	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57 0.70 0.17
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J)	1.42 1.42 1.42 1.42 1.05 0.00 0.00 0.00 0.00 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06 0.06 0.06 0.00	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.82 0.82 0.82 0.82 0.55 0.00 0.00 0.00 0.00 0.00 0.00	0.61 0.63 0.61 0.61 0.50 0.04 0.07 0.04 0.04 0.04 0.04	0.55 0.56 0.55 0.55 0.44 0.11 0.12 0.11 0.11 0.10 0.10	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45 0.45 0.37 0.37	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52 0.52 0.47 0.46 0.75	0.34 0.34 0.34 0.26 0.04 0.04 0.04 0.04 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78 0.78 0.33 0.28	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13 0.13 0.08 0.01	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57 0.70 0.17
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI)	1.42 1.42 1.42 1.42 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06 0.06 0.06 0.00 0.00	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.82 0.82 0.82 0.82 0.55 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.61 0.63 0.61 0.61 0.50 0.04 0.07 0.04 0.04 0.04 0.04 0.04 0.0	0.55 0.56 0.55 0.55 0.44 0.11 0.12 0.11 0.11 0.10 0.10 0.10	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45 0.45 0.37 0.37 0.52 0.37	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52 0.52 0.47 0.46 0.75 0.46	0.34 0.34 0.34 0.34 0.26 0.04 0.04 0.04 0.04 0.04 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78 0.78 0.33 0.28 0.28	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13 0.13 0.08 0.01 0.01	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57 0.70 0.17 0.17
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Seny (GHI) 30 Min SENY (GHI)	1.42 1.42 1.42 1.42 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06 0.06 0.06 0.00 0.00 0.00	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.82 0.82 0.82 0.82 0.55 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.61 0.63 0.61 0.61 0.50 0.04 0.07 0.04 0.04 0.04 0.04 0.04 0.0	0.55 0.56 0.55 0.55 0.44 0.11 0.12 0.11 0.11 0.10 0.10 0.10	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45 0.45 0.37 0.37 0.52 0.37	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52 0.52 0.47 0.46 0.75 0.46 0.46	0.34 0.34 0.34 0.26 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78 0.78 0.33 0.28 0.28	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13 0.08 0.01 0.01 0.01	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57 0.70 0.17 0.17
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F) 30 Min West (ABCDE)	1.42 1.42 1.42 1.42 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06 0.06 0.00 0.00 0.00 0.00	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.82 0.82 0.82 0.82 0.55 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.61 0.63 0.61 0.61 0.50 0.04 0.07 0.04 0.04 0.04 0.04 0.04 0.0	0.55 0.56 0.55 0.55 0.44 0.11 0.12 0.11 0.11 0.10 0.10 0.10 0.10	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45 0.37 0.37 0.37 0.37	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52 0.52 0.47 0.46 0.75 0.46 0.46	0.34 0.34 0.34 0.26 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78 0.33 0.28 0.28 0.28 0.28 0.28 0.28	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13 0.08 0.01 0.01 0.01 0.01	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57 0.70 0.17 0.17 0.17
Real Time Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Seny (GHI) 30 Min SENY (GHI)	1.42 1.42 1.42 1.42 1.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.98 0.98 0.98 0.98 0.81 0.06 0.06 0.06 0.06 0.00 0.00 0.00	1.62 1.62 1.62 1.62 1.11 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.82 0.82 0.82 0.82 0.55 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.61 0.63 0.61 0.61 0.50 0.04 0.07 0.04 0.04 0.04 0.04 0.04 0.0	0.55 0.56 0.55 0.55 0.44 0.11 0.12 0.11 0.11 0.10 0.10 0.10	0.72 0.90 0.72 0.72 0.58 0.45 0.63 0.45 0.45 0.37 0.37 0.52 0.37	1.23 1.77 1.23 1.23 1.08 0.52 1.06 0.52 0.52 0.47 0.46 0.75 0.46 0.46	0.34 0.34 0.34 0.26 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	2.48 2.53 2.48 2.48 1.28 0.78 0.83 0.78 0.78 0.33 0.28 0.28	2.20 2.28 2.20 2.20 1.38 0.13 0.21 0.13 0.08 0.01 0.01 0.01	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57 0.70 0.17 0.17

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

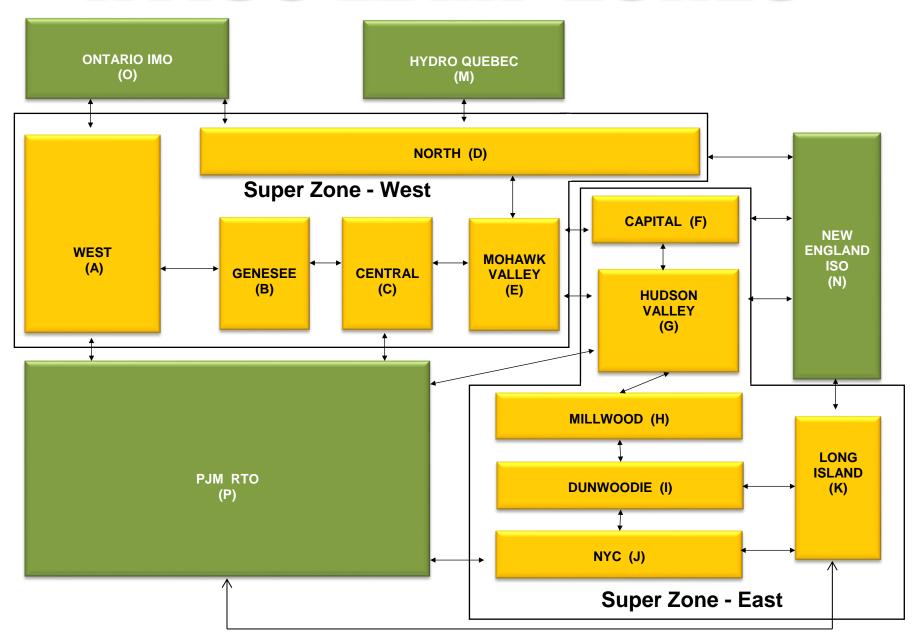








# NYISO LBMP ZONES



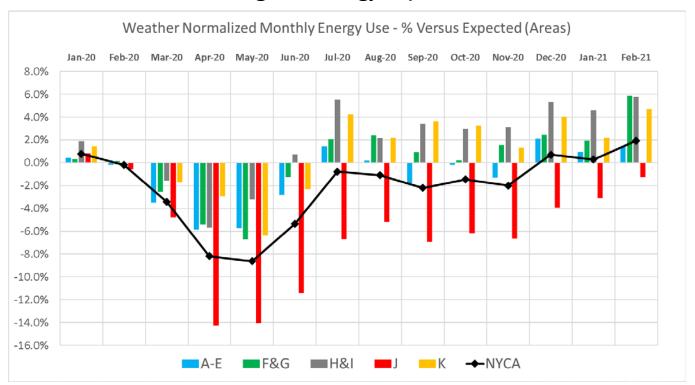
Market Mitigation and Analysis Prepared: 3/8/2021 12:24 PM

#### **Billing Codes for Chart C**

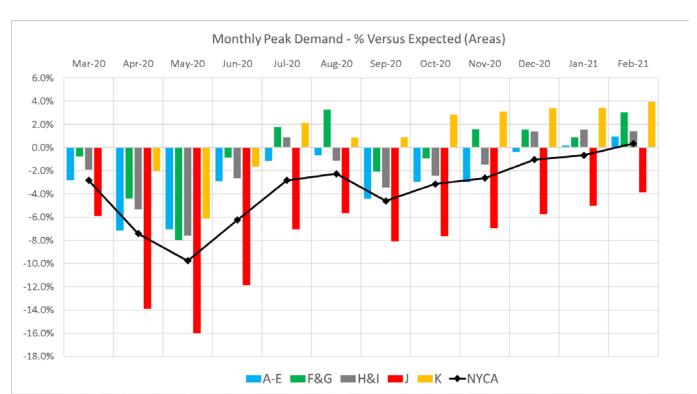
Chart - C Category Name	<b>Billing Code</b>	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost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

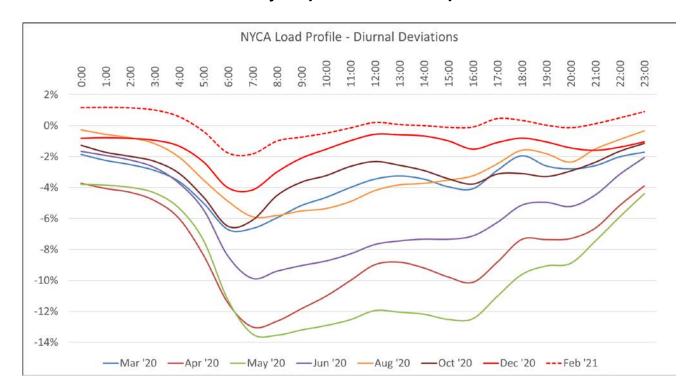


#### **Regional Peak Impacts**



## **COVID-19: Estimated Load Impacts**

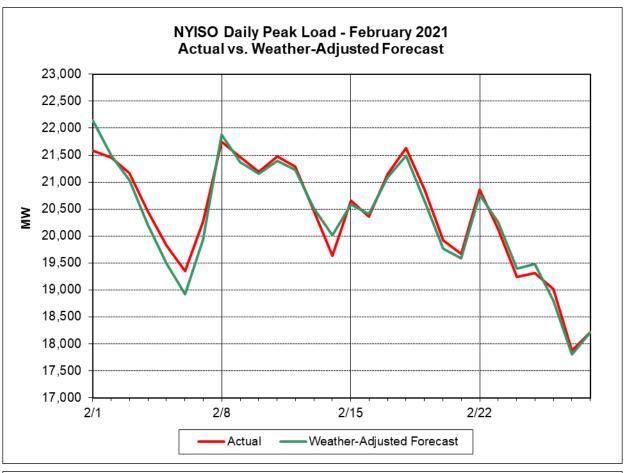
#### **NYCA Hourly Impacts versus Expected\***

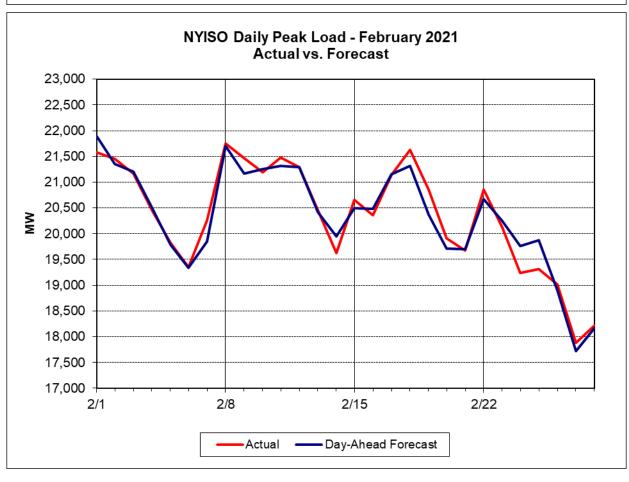


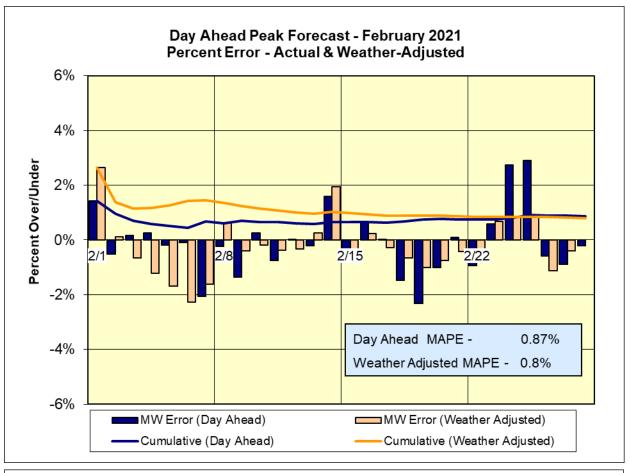
#### **Percent Deviations**

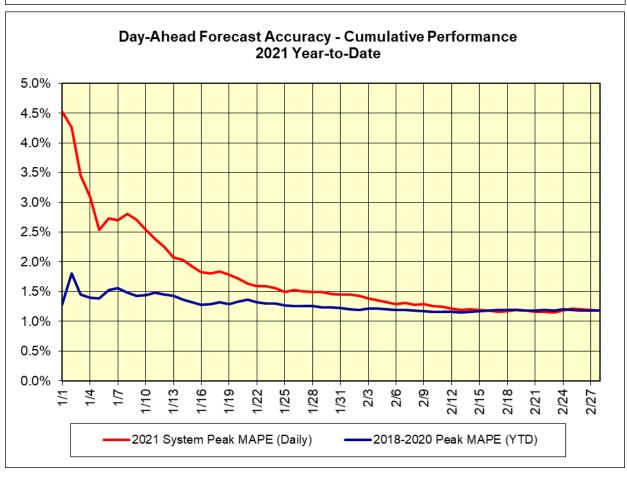
Hour	Mar '20	Apr '20	May '20	Jun '20	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20	Jan '21	Feb '21
0:00		-4%	-4%	-2%	-1%		-1%	-1%	-2%	-1%	0%	0%
1:00	-2%	-4%	-4%	-2%	-1%	-1%	-1%	-2%	-2%	-1%	0%	0%
2:00	-3%	-4%	-4%	-2%	-1%	-1%	-2%	-2%	-2%	-1%	-1%	-1%
3:00	-3%	-5%	-4%	-3%	-1%	-1%	-2%	-2%	-2%	-1%	-1%	-1%
4:00	-4%	-6%	-5%	-4%	-2%	-2%	-3%	-3%	-3%	-1%	-1%	-1%
5:00	-5%	-8%	-7%	-5%	-4%	-4%	-5%	-5%	-4%	-2%	-2%	-2%
6:00	-7%	-11%	-11%	-8%	-5%	-5%	-7%	-6%	-5%	-4%	-3%	-3%
7:00	-7%	-13%	-13%	-10%	-6%	-6%	-7%	-6%	-5%	-4%	-3%	-3%
8:00	-6%	-13%	-14%	-9%	-6%	-6%	-6%	-5%	-4%	-3%	-2%	-2%
9:00		-12%	-13%	-9%	-6%	-6%	-6%	-4%	-3%	-2%	-2%	-2%
10:00	-5%	-11%	-13%	-9%	-6%	-5%	-5%	-3%	-2%	-2%	-1%	-1%
11:00	-4%	-10%	-13%	-8%	-5%	-5%	-5%	-3%	-2%	-1%	-1%	-1%
12:00		-9%	-12%	-8%	-4%	-4%	-4%	-2%	-2%	-1%	0%	0%
13:00	-3%	-9%	-12%	-7%	-4%	-4%	-4%	-3%	-2%	-1%	0%	0%
14:00	-3%	-9%	-12%	-7%	-4%	-4%	-4%	-3%	-2%	-1%	0%	0%
15:00	-4%	-10%	-13%	-7%	-4%	-4%	-5%	-3%	-2%	-1%	0%	0%
16:00	-4%	-10%	-12%	-7%	-4%	-3%	-5%	-4%	-3%	-2%	-1%	-1%
17:00	-3%	-9%	-11%	-6%	-3%	-2%	-4%	-3%	-3%	-1%	-1%	-1%
18:00	-2%	-7%	-10%	-5%	-2%	-2%	-4%	-3%	-2%	-1%	-1%	-1%
19:00	-3%	-7%	-9%	-5%	-2%	-2%	-5%	-3%	-2%	-1%	-1%	-1%
20:00	-3%	-7%	-9%	-5%	-2%	-2%	-4%	-3%	-3%	-1%	-1%	-1%
21:00	-3%	-7%	-7%	-4%	-2%	-2%	-3%	-2%	-3%	-2%	-1%	-1%
22:00	-2%	-5%	-6%	-3%	-1%	-1%	-1%	-2%	-2%	-1%	-1%	-1%
23:00	-2%	-4%	-4%	-2%	-1%	0%	-1%	-1%	-2%	-1%	0%	0%

**Peak Hour** 









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

Filing Date	Filing Summary	Docket	Order Date	Order Summary
11/23/2020	NYISO compliance filing directed by October 7, 2020 FERC Order to modify the language that describes how an Offer Floor for an SCR is calculated.	ER17-996-005	02/18/2021	Letter order accepted tariff revisions effective 10/7/2020, as requested
02/02/2021	NYISO Section 205 filing of proposed tariff revisions to revise the process for procuring Operating Reserves and to establish a process for procuring Supplemental Reserves	ER21-1018-000		
02/05/2021	NYISO and Niagara Mohawk Power Corporation (National Grid) Joint Section 205 filing of a Large Generator Interconnection Agreement among NYISO, National Grid and PPM Roaring Brook, LLC	ER21-1061-000		
02/05/2021	NYISO and NYPA Joint Section 205 filing of an Engineering Procurement and Construction agreement among NYISO, NYPA and PPM Roaring Brook	ER21-1062-000		
	NYISO Section 205 filing of proposed tariff revisions related to Economic Planning Processes	ER21-1074-000		
02/10/2021	NYISO and National Grid Joint Section 205 filing of a Small Generator Interconnection Agreement among NYISO, NMPC and SunEast Watkins Road Solar	ER21-1088-000		
	NYISO notification to FERC of a major emergency state in the New York Control Area at 0119 on February 10, 2021	EY21-1-000		
02/11/2021	NYISO and Con Edison joint Section 205 filing of Amended and Restated Large Generator Interconnection Agreement among NYISO, Con Edison and NRG Berrians East Development (contains CEII)	ER21-1101-000		
02/12/2021	NYISO response to FERC's request for additional information on NYISO's proposal related to the quadrennial review of the ICAP demand curves	ER21-502-001		
02/16/2021	NYISO informational filing re: interconnection study metrics for the fourth quarter of 2020 consistent with the requirements of Order Nos. 845 and 845-A	ER19-1949-000		

02/26/2021	NYISO and Niagara Mohawk Power Corporation (National Grid) Joint Section 205 filing of a Transmission Project Interconnection Agreement among NYISO, National Grid and H. Q. Energy Services (U.S) Inc. for Cedar Rapids	ER21-1220-000	
02/26/2021	NYISO, Alcoa Power Generating, Inc., and H.Q. Energy Services (U.S.) Section 205 filing of an Engineering Procurement and Construction agreement among NYISO, National Grid and H.Q. Energy Services (U.S.) Inc. for Cedal Rapids	ER21-1221-000	