

## **Monthly Report**

A Report by the New York Independent System Operator

June 2021



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### June 2021 Report

## Operations & Reliability Department New York Independent System Operator



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### **June 2021 Operations Performance Highlights**

- Peak load of 30,919 MW occurred on 06/29/2021 HB 17
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 19 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- To reduce risks from COVID-19, the NYISO continues to take several actions to maintain critical business operations and protect the health and well-being of our employees and stakeholders.

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

	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.04	\$11.20
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.09	\$1.15
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.33	(\$2.30)
Total NY Savings	\$0.46	\$10.05
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.84	\$2.72
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.16	(\$0.21)
Total Regional Savings	\$0.99	\$2.51

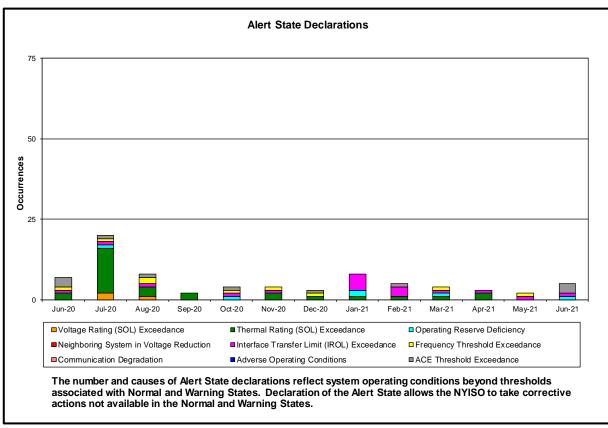
- Statewide uplift cost monthly average was (\$0.68)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

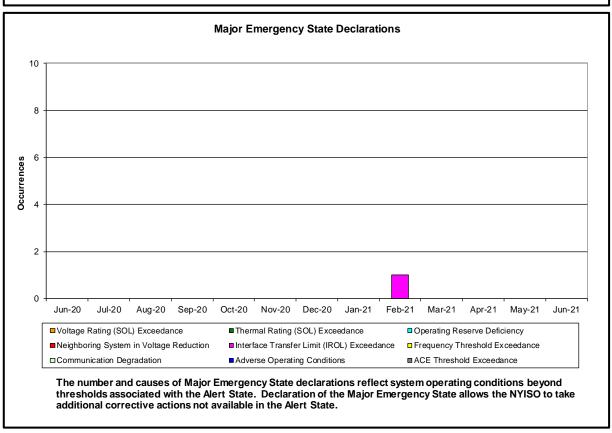
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
July 2021 Spot Price	\$5.50	\$5.50	\$5.50	\$9.29
June 2021 Spot Price	\$5.32	\$5.32	\$5.32	\$9.34
Delta	\$0.18	\$0.18	\$0.18	(\$0.05)

• NYCA, Lower Hudson Valley (GHIJ), and New York City (NYC) localities experienced a \$0.18 clearing price increase due to an increase in unsold MWs in Rest-of-State (ROS).

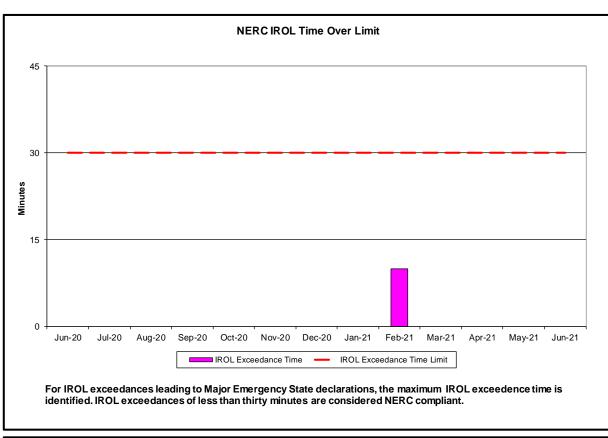


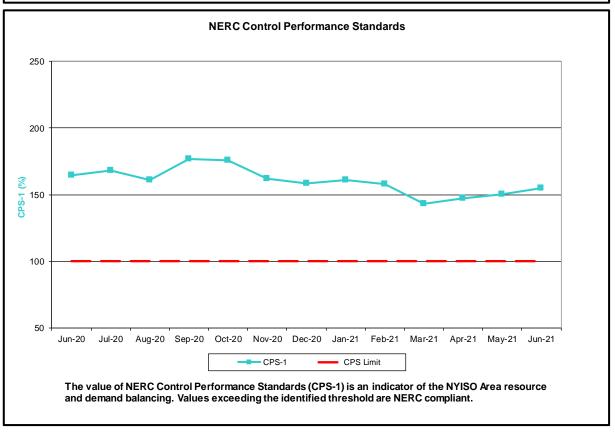
#### **Reliability Performance Metrics**



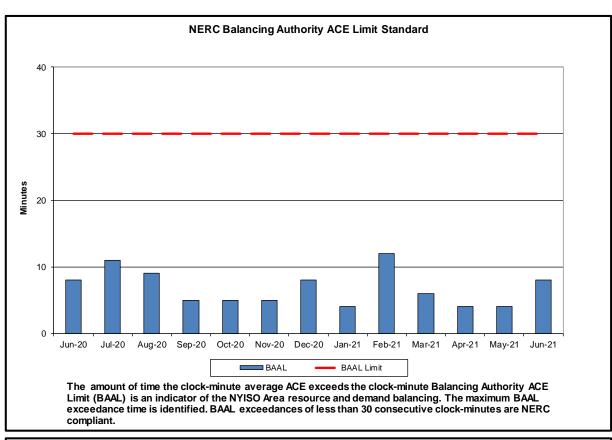


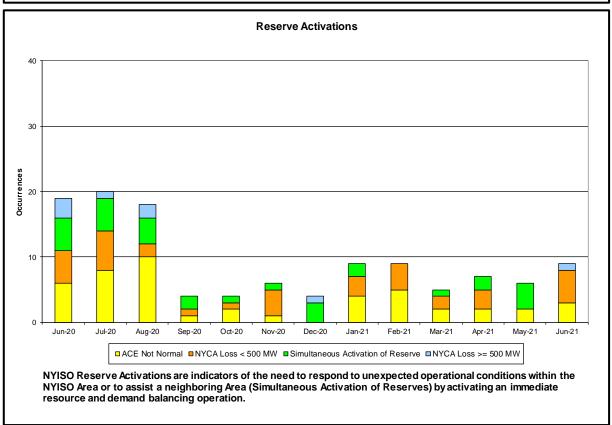




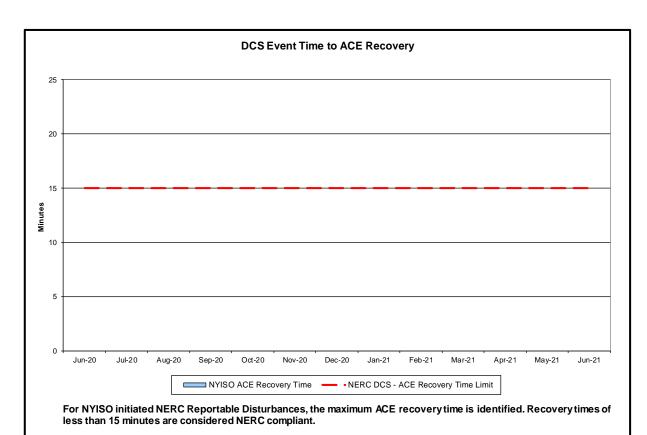


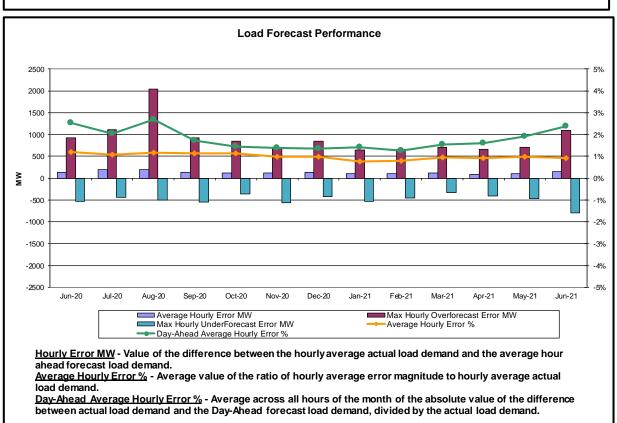




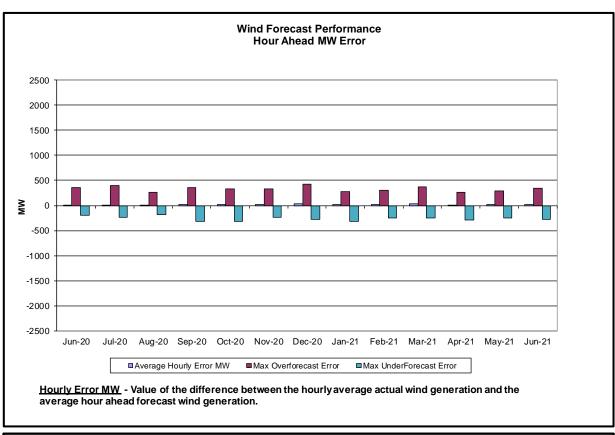


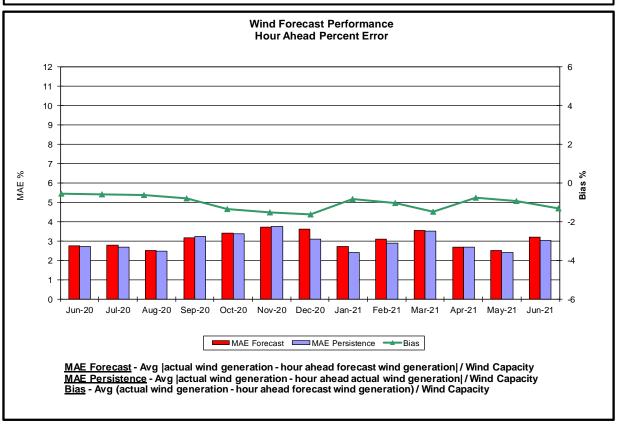




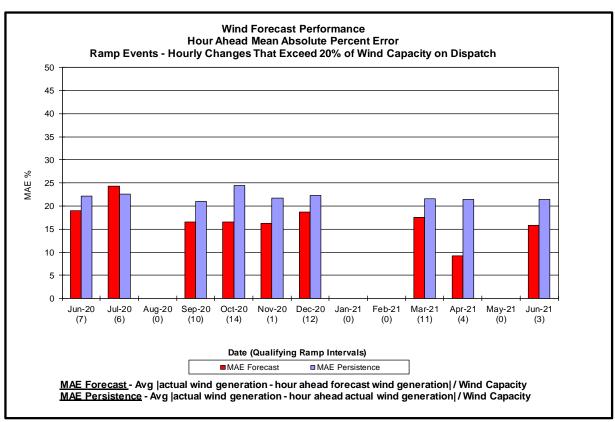


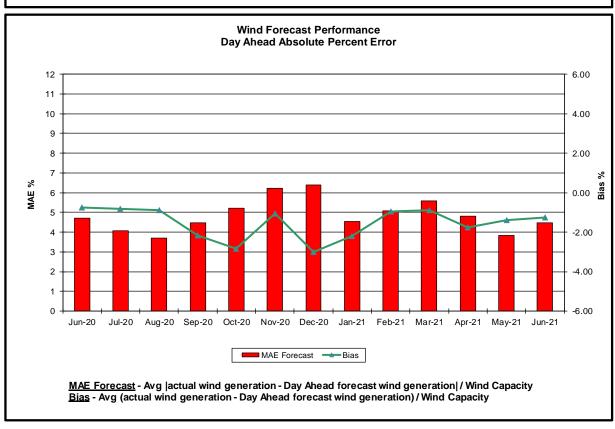




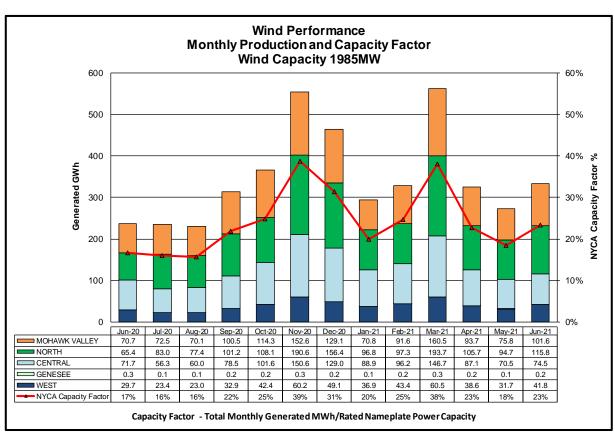


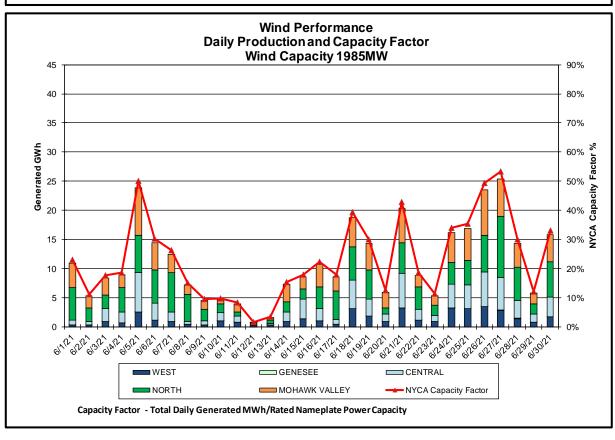




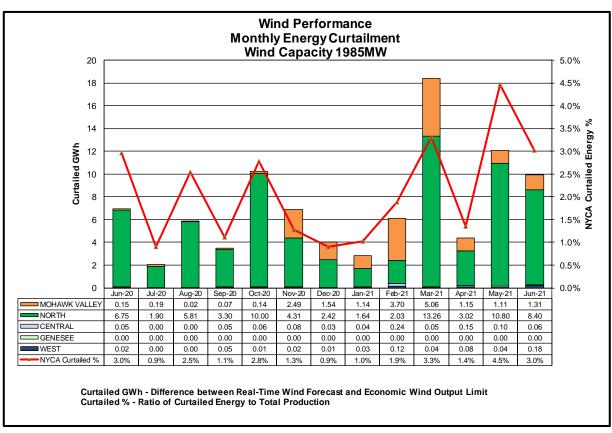


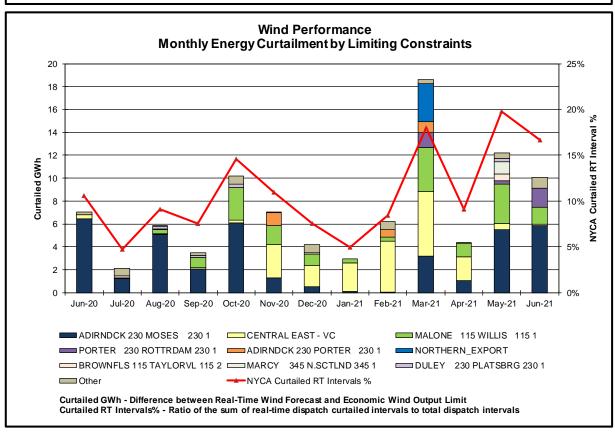




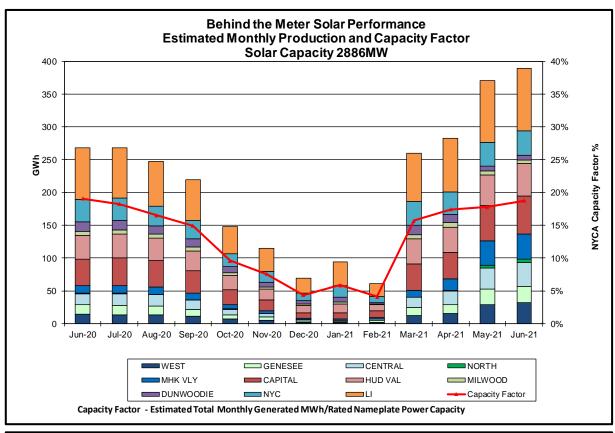


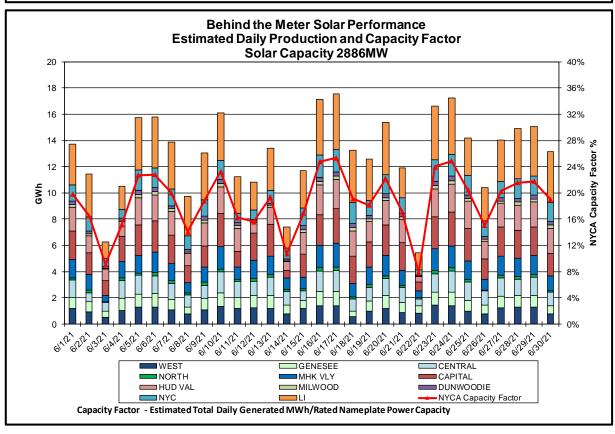




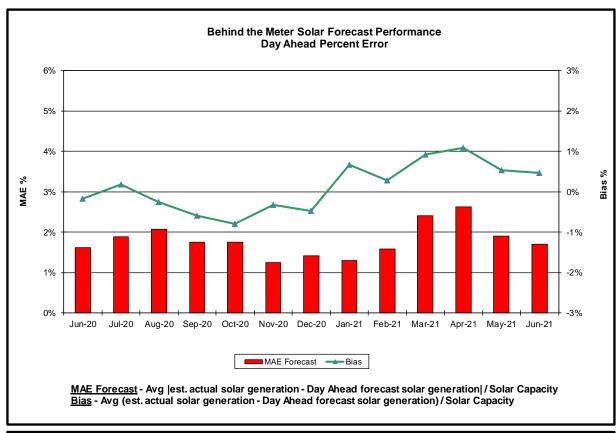


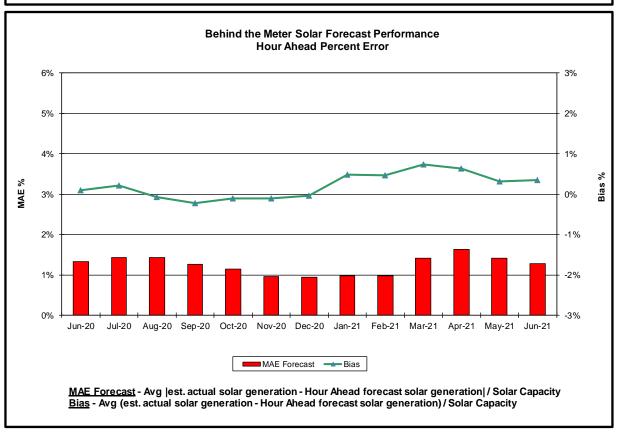




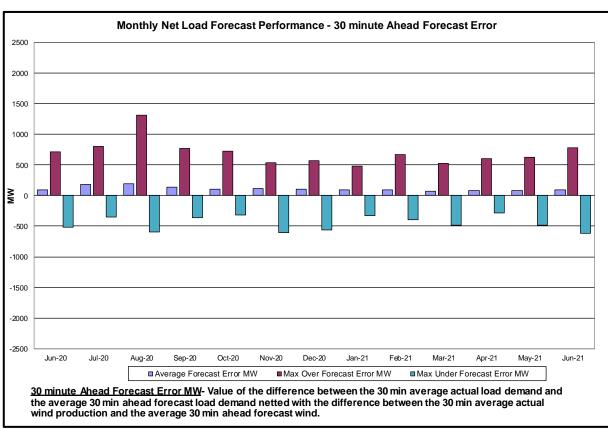


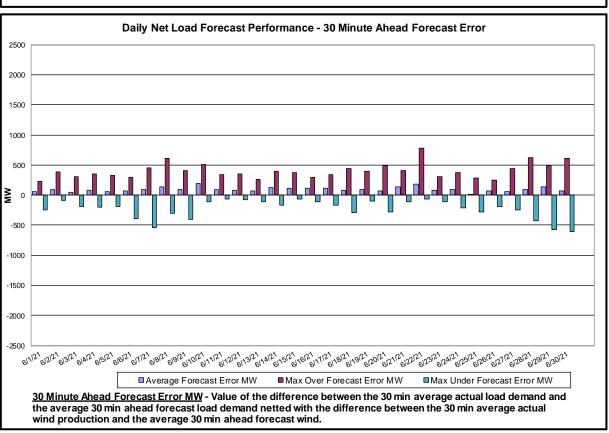




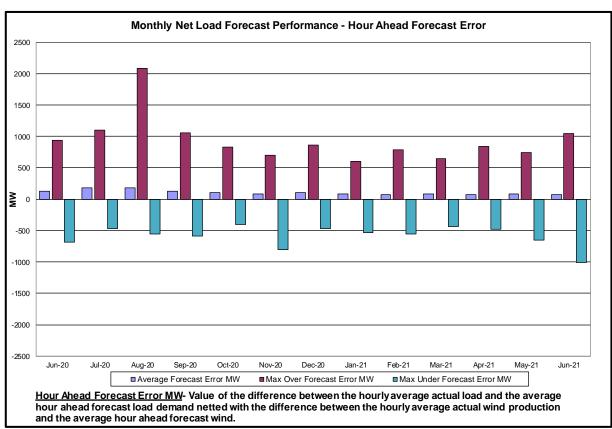


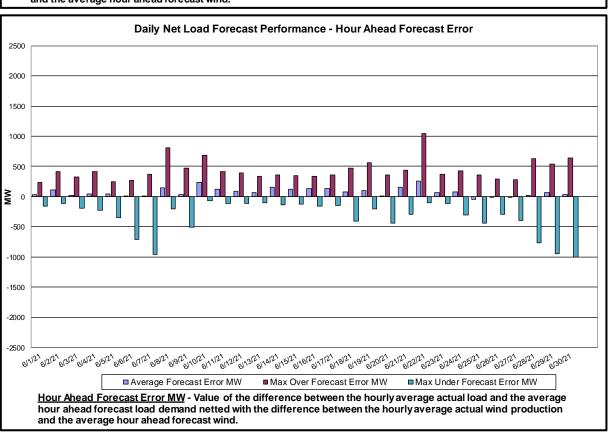




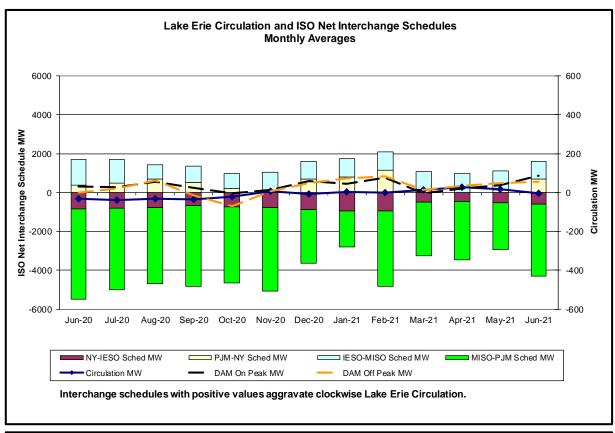


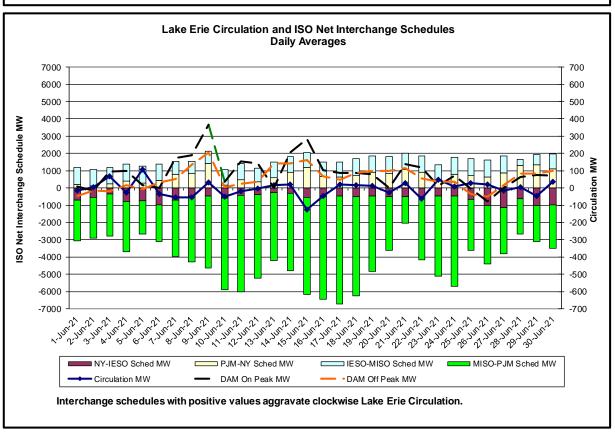






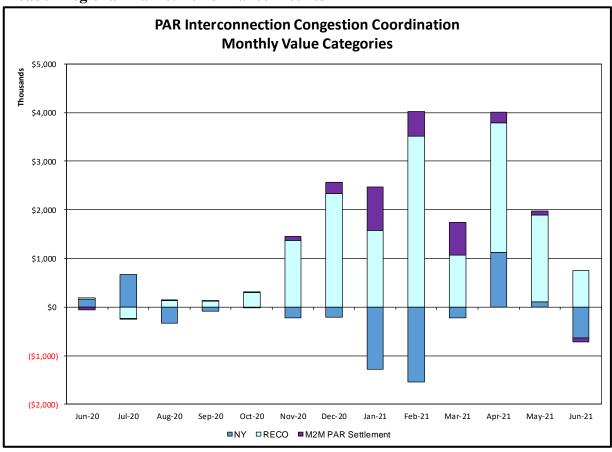


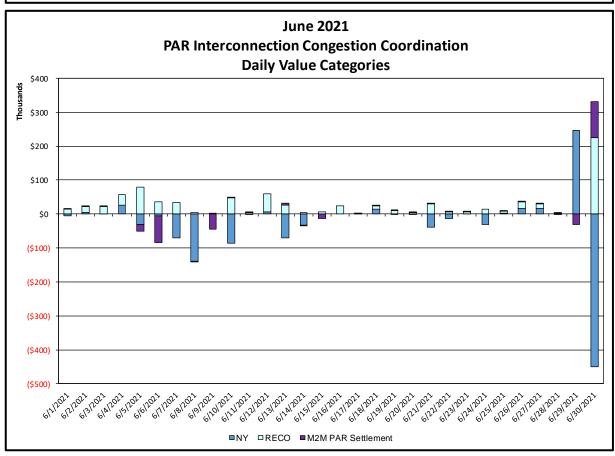






#### **Broader Regional Market Performance Metrics**







#### **PAR Interconnection Congestion Coordination**

<u>Category</u> NY <u>Description</u>

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

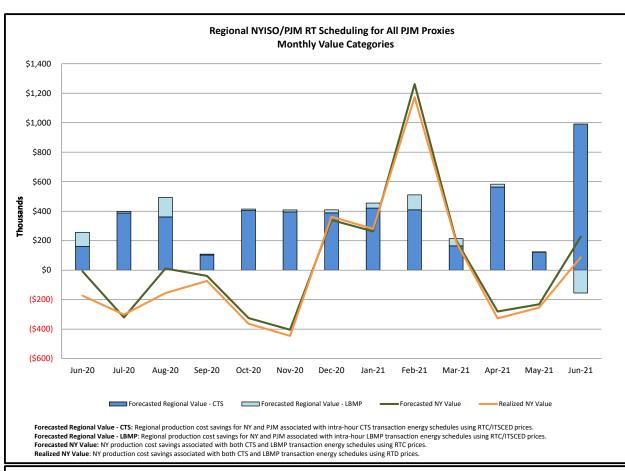
of RECO over Ramapo 5018.

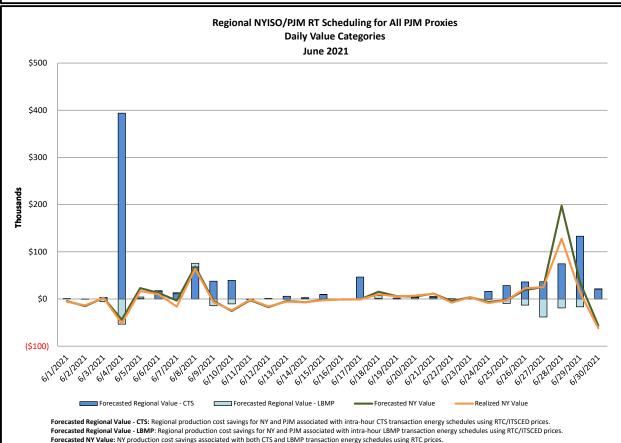
M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017

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.

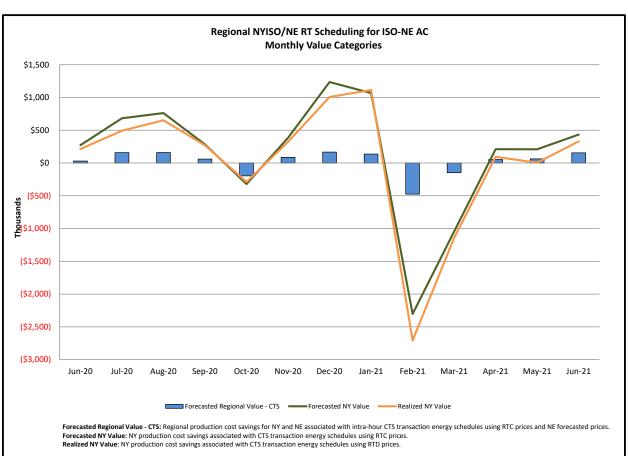


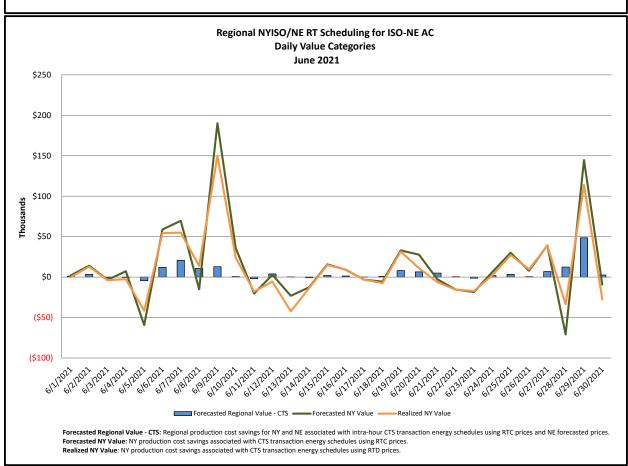




Realized NY Value: NY production cost savings associated with both CTS and LBMP transaction energy schedules using RTD prices.

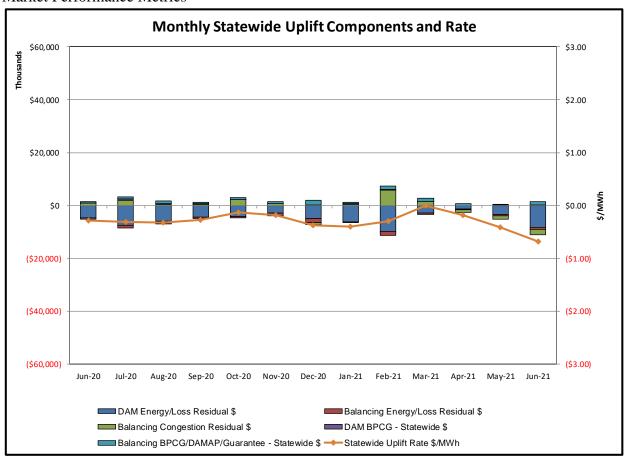




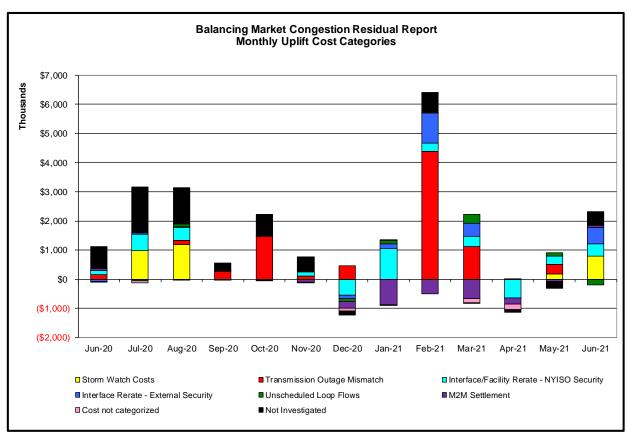


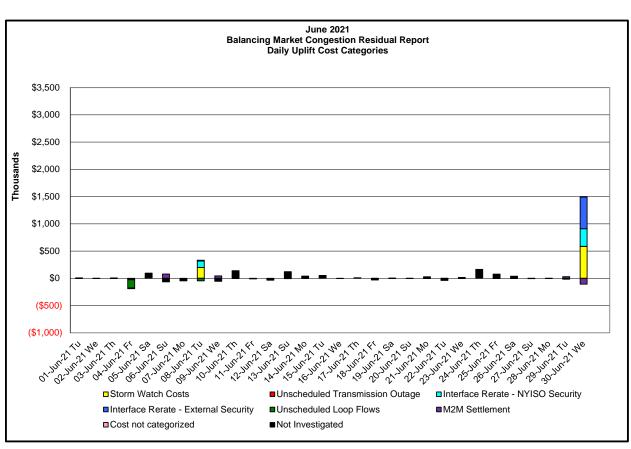


#### Market Performance Metrics







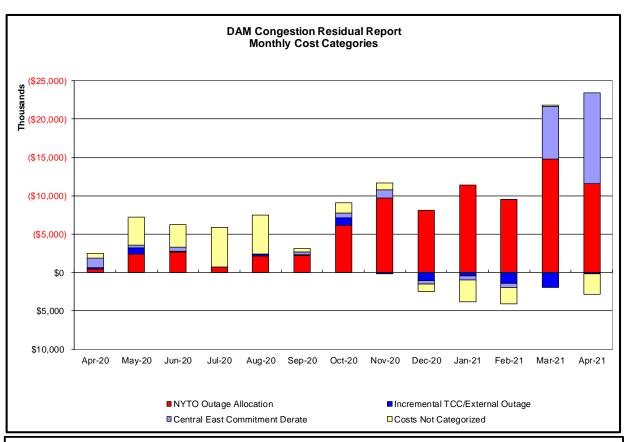


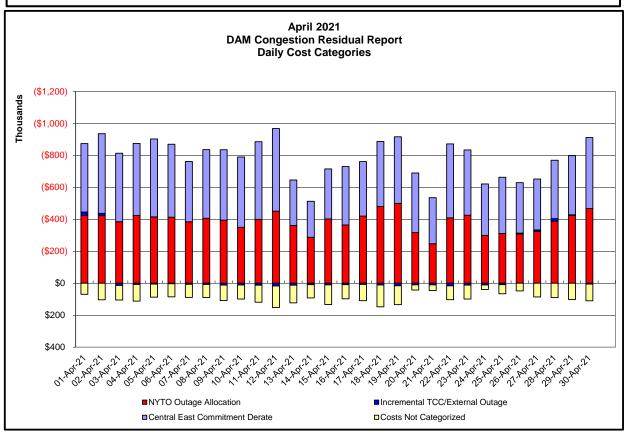


_	nvestigated in June:4,8,		
ent	() ) ) )	Hours	Description
	6/4/2021		Uprate Central East
	6/4/2021		PJM_AC DNI Ramp Limit
	6/4/2021		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	6/8/2021		Thunder Storm Alert, Buchanan North 345/138kV (Bank TA5)
	6/8/2021		Thunder Storm Alert, Chester-Shoemaker 138kV (#27)
	6/8/2021		NYCA DNI Ramp Limit
	6/8/2021		Derate Adirondack-Moses 230kV (#MA1) for I/o SIN:MSU1&7040& HQ GN&LD PROXY
	6/8/2021		Derate Porter-Rotterdam 230kV (#31) for I/o BUS:NSCTLD#77 14&2&93&BK2&C1&3
	6/8/2021		Derate Scriba-Volney 345kV (#20) I/o Scriba-Volney 345kV (#21)
	6/8/2021	9-11	Uprate East 179th Street-Hellgate 138kV (#15055)
	6/8/2021		Uprate Freshkills-Willowbrook 138kV (#29211)
	6/8/2021	11-13,19	Uprate Freshkills-Willowbrook 138kV (#29212)
	6/8/2021	13,19	Uprate Goethals-Gowanus 345kV (#25/#26)
	6/8/2021	9	Uprate Malone-Willis 115kV (#1-910) I/o ALCOA_PA-ALCOA115_R8105
	6/8/2021	13,20-23	HQ_CHAT-NY Scheduling Limit
	6/8/2021	14	NE_AC DNI Ramp Limit
	6/8/2021	11	IESO_AC DNI Ramp Limit
	6/8/2021	7-9	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	6/8/2021	13	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	6/30/2021	17-21	Thunder Storm Alert, Buchanan North 345/138kV (Bank TA5)
	6/30/2021	17-20	Thunder Storm Alert, Chester-Shoemaker 138kV (#27)
	6/30/2021	17-19	Thunder Storm Alert, Pleasant Valley-Leeds 345kV (#92)
	6/30/2021	16-22	Thunder Storm Alert, HQ Scheduling Limits, curtailment for North Zone TSA
	6/30/2021	13,14,16	Derate Dunwoodie-Dunwoodie South 345kV (#W73) I/o Sprainbrook-Dunwoodie South 138kV (#99942)
	6/30/2021	10-16	Derate Roseton-East Fishkill 345kV (#RFK305) I/o TWR: Y88 & Y94 & TA5
	6/30/2021	23	Derate Greenwood-Vernon 138kV (#31231) I/o TWR:GOETHALS 22 & 21
	6/30/2021	16	Derate Pleasant Valley-Leeds 345kV (#92) I/o Athens-Pleasant Valley 345kV (#91)
	6/30/2021		Derate Porter-Rotterdam 230kV (#31) for I/o TWR:EDIC EF24-40& 30
	6/30/2021		Uprate Freshkills-Willowbrook 138kV (#29211) Base Case
	6/30/2021	8,9	Uprate Gowanus-Greenwood 138kV (#42231/#42232) Base Case
	6/30/2021	,	Uprate Gowanus-Greenwood 138kV (#42232) I/o TWR:GOETHALS 22 & 21
	6/30/2021		NYCA DNI Ramp Limit
	6/30/2021		HQ_CHAT DNI Rampl Limit
	6/30/2021		NE AC-NY Scheduling Limit

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



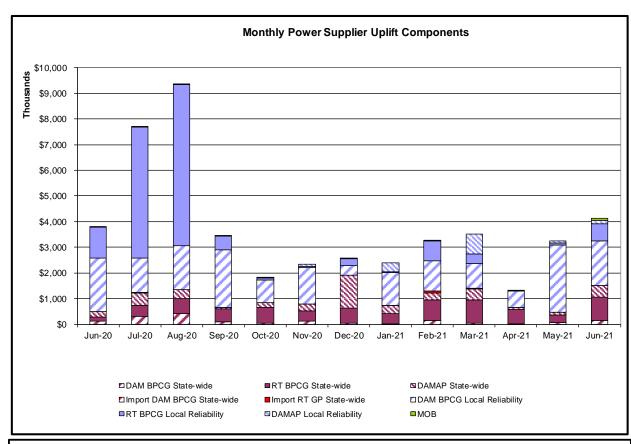


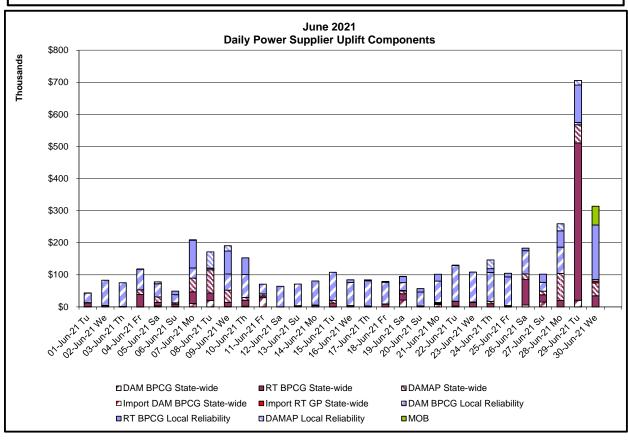




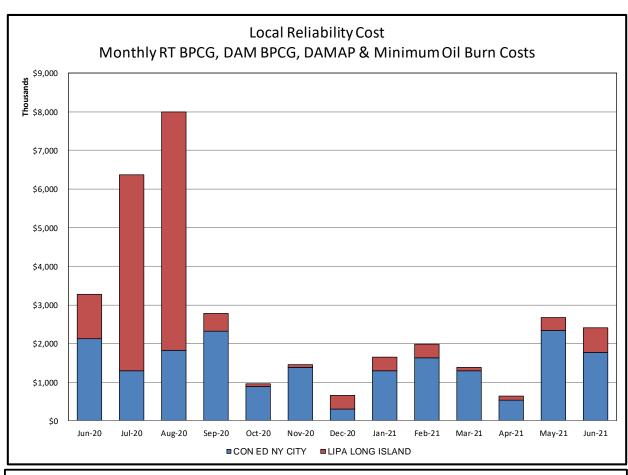
Day-	Ahead Market Co	ngestion Residual Categories	
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	Events Types Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples DAM scheduled outage for equipment modeled inservice for the TCC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

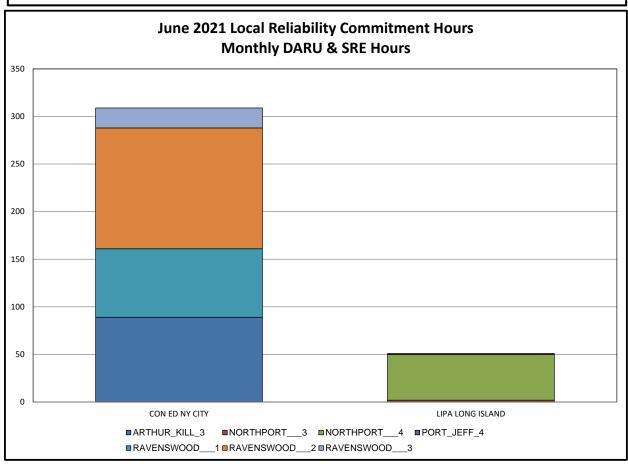




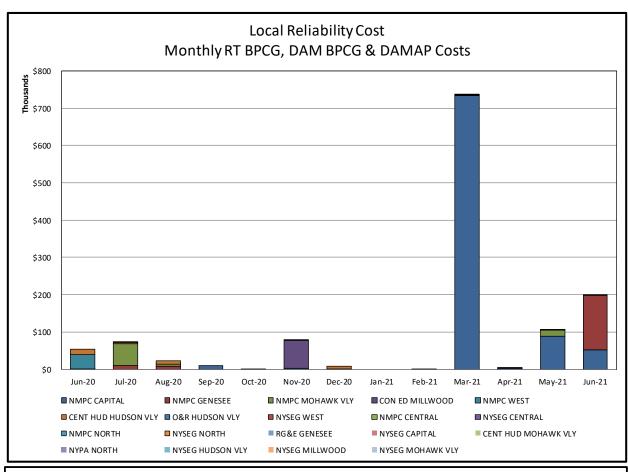


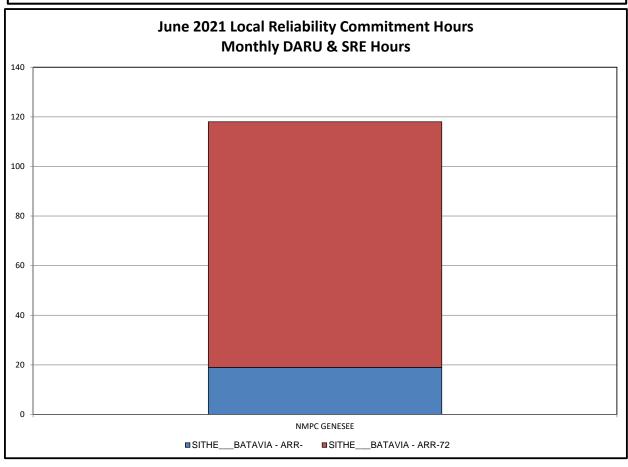




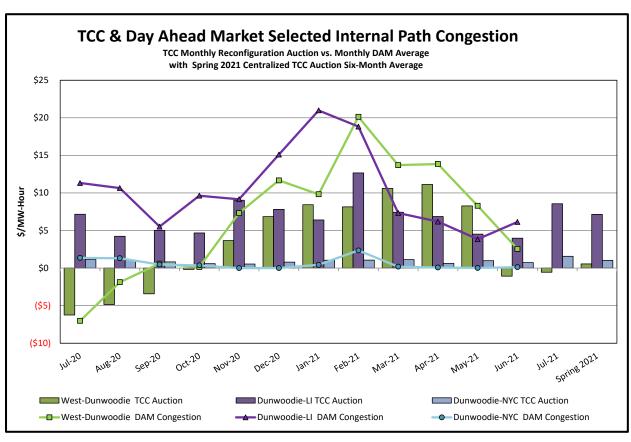


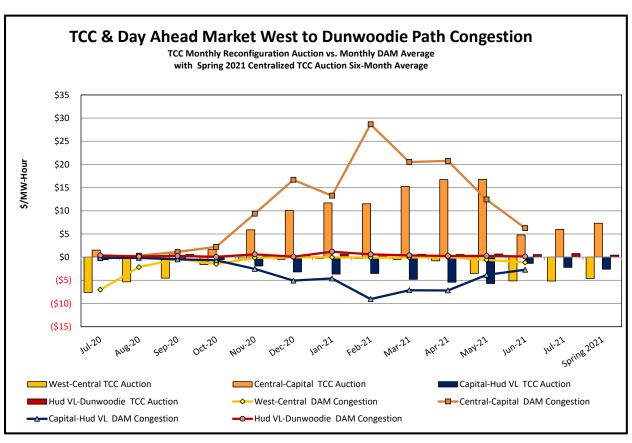




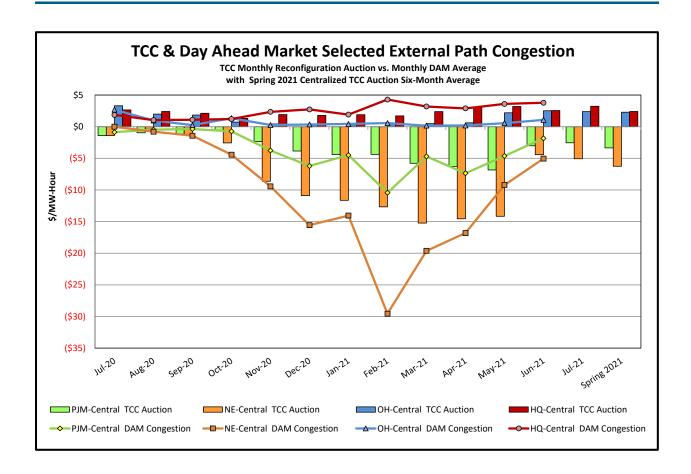




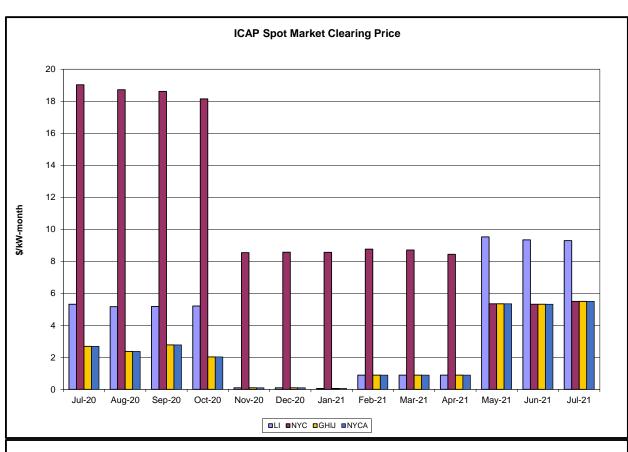


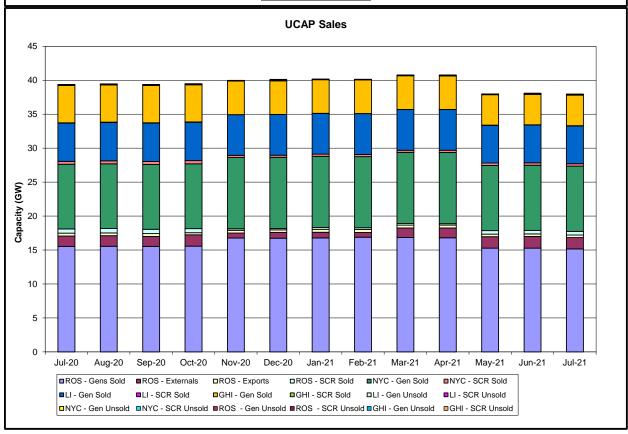








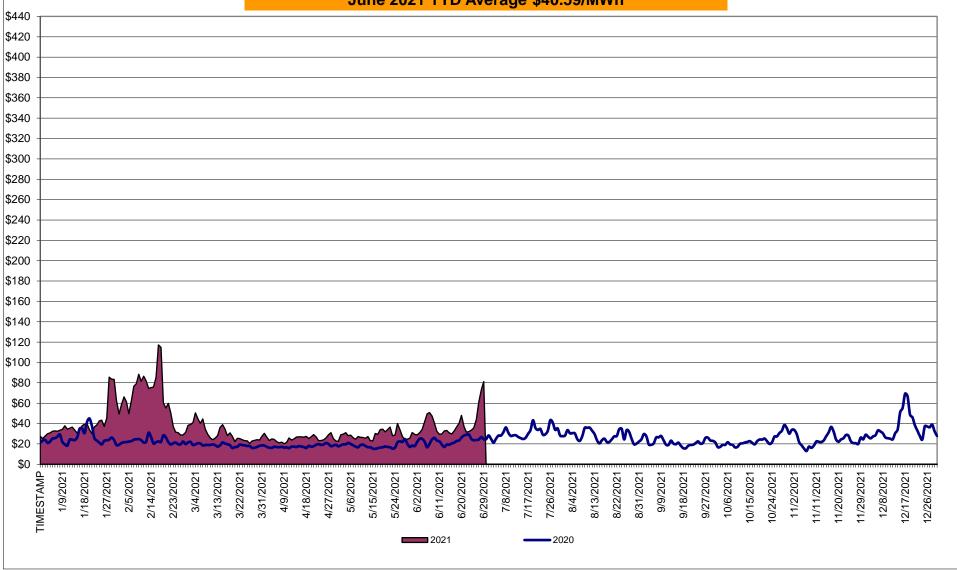




## Market Performance Highlights June 2021

- LBMP for June is \$39.37/MWh; higher than \$25.72/MWh in May 2021 and \$21.36/MWh in June 2020.
  - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are higher compared to May.
- June 2021 average year-to-date monthly cost of \$40.59/MWh is an 83% increase from \$22.21/MWh in June 2020.
- Average daily sendout is 458 GWh/day in June; higher than 365 GWh/day in May 2021 and 430 GWh/day in June 2020.
- Natural gas prices and distillate prices are higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.61/MMBtu, up from \$2.37/MMBtu in May.
  - Natural gas prices are up 81.2% year-over-year.
  - Jet Kerosene Gulf Coast was \$13.71/MMBtu, up from \$12.92/MMBtu in May.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$15.12/MMBtu, up from \$14.39/MMBtu in May.
  - Distillate prices are up 87.9% year-over-year.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.50)/MWh; lower than (\$0.19)/MWh in May.
    - Local Reliability Share is \$0.17/MWh, lower than \$0.22/MWh in May.
    - Statewide Share is (\$0.68)/MWh, lower than (\$0.41)/MWh in May.
  - TSA \$ per NYC MWh is \$0.90/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than May.

# Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\* 2020 Annual Average \$25.70/MWh June 2020 YTD Average \$22.21/MWh June 2021 YTD Average \$40.59/MWh

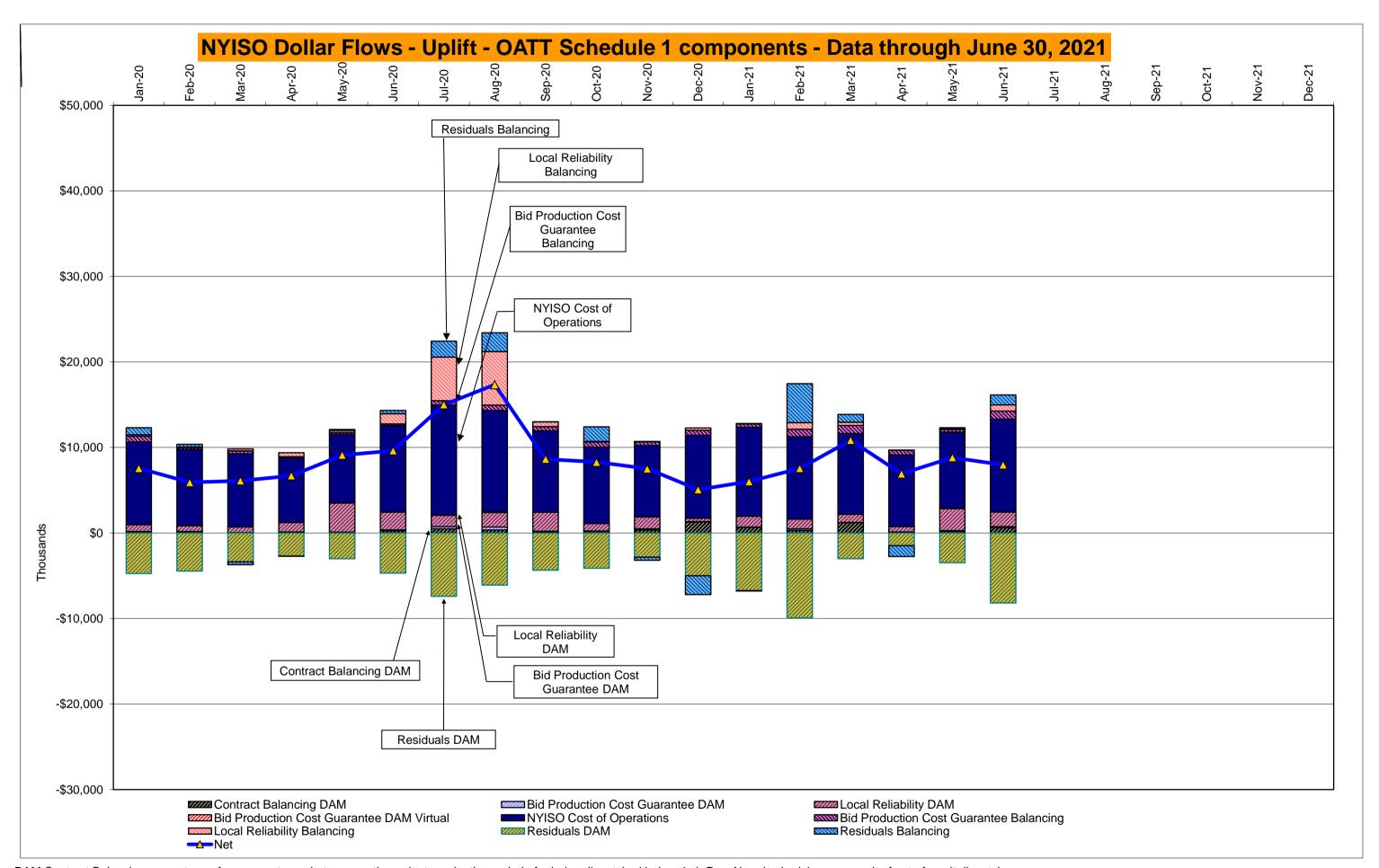


<sup>\*</sup> Excludes ICAP payments.

## 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>	September	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	37.83	63.70	28.59	22.79	25.72	39.37						
NTAC	1.35	1.20	1.26	1.54	2.09	2.05						
Reserve	0.49	0.81	0.57	0.56	0.54	0.45						
Regulation	0.07	0.13	0.09	0.10	0.08	0.07						
NYISO Cost of Operations	0.74	0.74	0.74	0.74	0.76	0.76						
FERC Fee Recovery	0.08	0.09	0.09	0.11	0.10	0.08						
Uplift	(0.31)	(0.15)	0.11	(0.12)	(0.19)	(0.50)						
Uplift: Local Reliability Share	0.09	0.15	0.11	0.06	0.22	0.17						
Uplift: Statewide Share	(0.40)	(0.30)	0.00	(0.18)	(0.41)	(0.68)						
Voltage Support and Black Start _	0.43	0.43	0.43	0.44	0.44	0.44						
Avg Monthly Cost	40.61	66.87	31.81	26.06	29.45	42.65						
Avg YTD Cost	40.69	52.99	46.57	42.41	40.10	40.59						
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.52	0.90						
2020	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	<u>November</u>	<u>December</u>
LBMP							<u> </u>	·	<u> </u>	0 010.00.		
LDIVIP	24.77	21.11	17.11	15.77	16.14	21.36	28.86	26.13	20.52	20.90	22.57	33.70
	24.77 0.91	21.11 0.70	17.11 0.86	15.77 0.91	16.14 1.05	21.36 0.95	28.86 1.24	26.13 1.03	20.52 0.78	20.90 0.84	22.57 1.05	33.70 1.35
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
NTAC Reserve	0.91 0.46	0.70 0.43	0.86 0.47	0.91 0.50	1.05 0.53	0.95 0.45	1.24 0.39	1.03 0.39	0.78 0.42	0.84 0.61	1.05 0.51	1.35 0.49
NTAC Reserve Regulation	0.91 0.46 0.09	0.70 0.43 0.08	0.86	0.91	1.05	0.95	1.24	1.03 0.39 0.07	0.78	0.84	1.05	1.35 0.49 0.08
NTAC Reserve Regulation NYISO Cost of Operations	0.91 0.46	0.70 0.43	0.86 0.47 0.09	0.91 0.50 0.08	1.05 0.53 0.10	0.95 0.45 0.08	1.24 0.39 0.06	1.03 0.39	0.78 0.42 0.09	0.84 0.61 0.11	1.05 0.51 0.09	1.35 0.49
NTAC Reserve Regulation	0.91 0.46 0.09 0.68	0.70 0.43 0.08 0.69 0.09	0.86 0.47 0.09 0.68 0.09	0.91 0.50 0.08 0.66	1.05 0.53 0.10 0.71	0.95 0.45 0.08 0.74	1.24 0.39 0.06 0.76	1.03 0.39 0.07 0.75	0.78 0.42 0.09 0.74	0.84 0.61 0.11 0.73	1.05 0.51 0.09 0.69 0.10	1.35 0.49 0.08 0.70 0.08
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery	0.91 0.46 0.09 0.68 0.08	0.70 0.43 0.08 0.69	0.86 0.47 0.09 0.68	0.91 0.50 0.08 0.66 0.10	1.05 0.53 0.10 0.71 0.11	0.95 0.45 0.08 0.74 0.09	1.24 0.39 0.06 0.76 0.06	1.03 0.39 0.07 0.75 0.07	0.78 0.42 0.09 0.74 0.09	0.84 0.61 0.11 0.73 0.10	1.05 0.51 0.09 0.69	1.35 0.49 0.08 0.70
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	0.91 0.46 0.09 0.68 0.08 (0.15)	0.70 0.43 0.08 0.69 0.09 (0.23)	0.86 0.47 0.09 0.68 0.09 (0.19)	0.91 0.50 0.08 0.66 0.10 (0.08)	1.05 0.53 0.10 0.71 0.11 0.09	0.95 0.45 0.08 0.74 0.09 (0.05)	1.24 0.39 0.06 0.76 0.06 0.07	1.03 0.39 0.07 0.75 0.07 0.17	0.78 0.42 0.09 0.74 0.09 (0.07)	0.84 0.61 0.11 0.73 0.10 (0.05)	1.05 0.51 0.09 0.69 0.10 (0.07)	1.35 0.49 0.08 0.70 0.08 (0.33) 0.05
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	0.91 0.46 0.09 0.68 0.08 (0.15) 0.07	0.70 0.43 0.08 0.69 0.09 (0.23) 0.06	0.86 0.47 0.09 0.68 0.09 (0.19) 0.07	0.91 0.50 0.08 0.66 0.10 (0.08) 0.14	1.05 0.53 0.10 0.71 0.11 0.09 0.32	0.95 0.45 0.08 0.74 0.09 (0.05)	1.24 0.39 0.06 0.76 0.06 0.07 0.38	1.03 0.39 0.07 0.75 0.07 0.17 0.50	0.78 0.42 0.09 0.74 0.09 (0.07) 0.22	0.84 0.61 0.11 0.73 0.10 (0.05) 0.08	1.05 0.51 0.09 0.69 0.10 (0.07) 0.12	1.35 0.49 0.08 0.70 0.08 (0.33)
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	0.91 0.46 0.09 0.68 0.08 (0.15) 0.07 (0.22)	0.70 0.43 0.08 0.69 0.09 (0.23) 0.06 (0.29)	0.86 0.47 0.09 0.68 0.09 (0.19) 0.07 (0.26)	0.91 0.50 0.08 0.66 0.10 (0.08) 0.14 (0.21)	1.05 0.53 0.10 0.71 0.11 0.09 0.32 (0.23)	0.95 0.45 0.08 0.74 0.09 (0.05) 0.24 (0.29)	1.24 0.39 0.06 0.76 0.06 0.07 0.38 (0.31)	1.03 0.39 0.07 0.75 0.07 0.17 0.50 (0.33)	0.78 0.42 0.09 0.74 0.09 (0.07) 0.22 (0.28)	0.84 0.61 0.11 0.73 0.10 (0.05) 0.08 (0.13)	1.05 0.51 0.09 0.69 0.10 (0.07) 0.12 (0.19)	1.35 0.49 0.08 0.70 0.08 (0.33) 0.05 (0.38)
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	0.91 0.46 0.09 0.68 0.08 (0.15) 0.07 (0.22) 0.44	0.70 0.43 0.08 0.69 0.09 (0.23) 0.06 (0.29) 0.44	0.86 0.47 0.09 0.68 0.09 (0.19) 0.07 (0.26) 0.44	0.91 0.50 0.08 0.66 0.10 (0.08) 0.14 (0.21) 0.43	1.05 0.53 0.10 0.71 0.11 0.09 0.32 (0.23) 0.45	0.95 0.45 0.08 0.74 0.09 (0.05) 0.24 (0.29) 0.45	1.24 0.39 0.06 0.76 0.06 0.07 0.38 (0.31) 0.46	1.03 0.39 0.07 0.75 0.07 0.17 0.50 (0.33) 0.46	0.78 0.42 0.09 0.74 0.09 (0.07) 0.22 (0.28) 0.45	0.84 0.61 0.11 0.73 0.10 (0.05) 0.08 (0.13) 0.45	1.05 0.51 0.09 0.69 0.10 (0.07) 0.12 (0.19) 0.44	1.35 0.49 0.08 0.70 0.08 (0.33) 0.05 (0.38) 0.45

<sup>\*</sup> Excludes ICAP payments. Market Mitigation and Analysis Prepared: 7/9/2021 4:14 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>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	14,108,848	13,325,329	12,843,278	11,204,262	11,854,214	14,120,662						
DAM LSE Internal LBMP Energy Sales	60%	59%	56%	55%	56%	61%						
DAM External TC LBMP Energy Sales	5%	4%	3%	2%	2%	3%						
DAM Bilateral - Internal Bilaterals	31%	30%	32%	35%	35%	29%						
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	1%	4%	4%	5%	4%	4%						
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%						
DAM Bilateral - Wheel Through Bilaterals	2%	2%	3%	2%	2%	2%						
Balancing Energy Market MWh	29,179	-308,157	-70,279	30,603	-36,350	247,874						
Balancing Energy LSE Internal LBMP Energy Sales	-215%	-151%	-367%	-456%	-398%	53%						
Balancing Energy External TC LBMP Energy Sales	374%	59%	365%	578%	440%	60%						
Balancing Energy Bilateral - Internal Bilaterals	49%	4%	27%	34%	0%	-1%						
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%						
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	50%	5%	32%	34%	21%	5%						
Balancing Energy Bilateral - Wheel Through Bilaterals	-158%	-17%	-158%	-90%	-163%	-17%						
Transactions Summary												
LBMP	65%	62%	59%	57%	58%	65%						
Internal Bilaterals	31%	31%	33%	35%	35%	29%						
Import Bilaterals	1%	4%	4%	5%	4%	3%						
Export Bilaterals	2%	2%	2%	2%	2%	2%						
Wheels Through	2%	2%	2%	2%	2%	1%						
Market Share of Total Load												
Day Ahead Market	99.8%	102.4%	100.6%	99.7%	100.3%	98.3%						
Balancing Energy +	0.2%	-2.4%	-0.6%	0.3%	-0.3%	1.7%						
Total MWH	14,138,027	13,017,172	12,772,999	11,234,865	11,817,864	14,368,536						
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458						
2020	lanuary	Fohruary	March	April	May	luno	lukz	August	Santambar	Octobor	November	Docombor
2020	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	<u>December</u>
Day Ahead Market MWh	14,194,609	13,172,669	12,495,999	11,372,390	11,462,320	13,825,178	16,629,337	15,671,629	13,122,542	12,338,638	12,157,281	13,748,181
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	14,194,609 56%	13,172,669 56%	12,495,999 59%	11,372,390 54%	11,462,320 55%	13,825,178 58%	16,629,337 65%	15,671,629 63%	13,122,542 60%	12,338,638 56%	12,157,281 57%	13,748,181 59%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales	14,194,609 56% 6%	13,172,669 56% 5%	12,495,999 59% 5%	11,372,390 54% 7%	11,462,320 55% 4%	13,825,178 58% 3%	16,629,337 65% 2%	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%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	14,194,609 56% 6% 30%	13,172,669 56% 5% 30%	12,495,999 59% 5% 27%	11,372,390 54% 7% 30%	11,462,320 55% 4% 31%	13,825,178 58% 3% 29%	16,629,337 65% 2% 26%	15,671,629 63% 4% 27%	13,122,542 60% 4% 30%	12,338,638 56% 5% 32%	12,157,281 57% 5% 33%	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% 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% -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% 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% 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% -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% 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	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 - Export/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% 0%	12,338,638 56% 5% 32% 3% 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% 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  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% 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% 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 - Export/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% 62% 30%	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% 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% 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  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% 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% 44% -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% 3% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 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 - Export/Non-LBMP Market 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% 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 - 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 Wheels 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% 11%	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% -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% 7% 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% 99.8%	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% 2% -24% 68% 36% 3% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 44% -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%
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%	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% 101.3% -1.3%	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% 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 - 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% 99.8%	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% 2% -24% 68% 36% 3% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 44% -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%

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

Notes: Percent totals may not equal 100% due to rounding.
Virtual Transactions are not reflected in this chart.

<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.

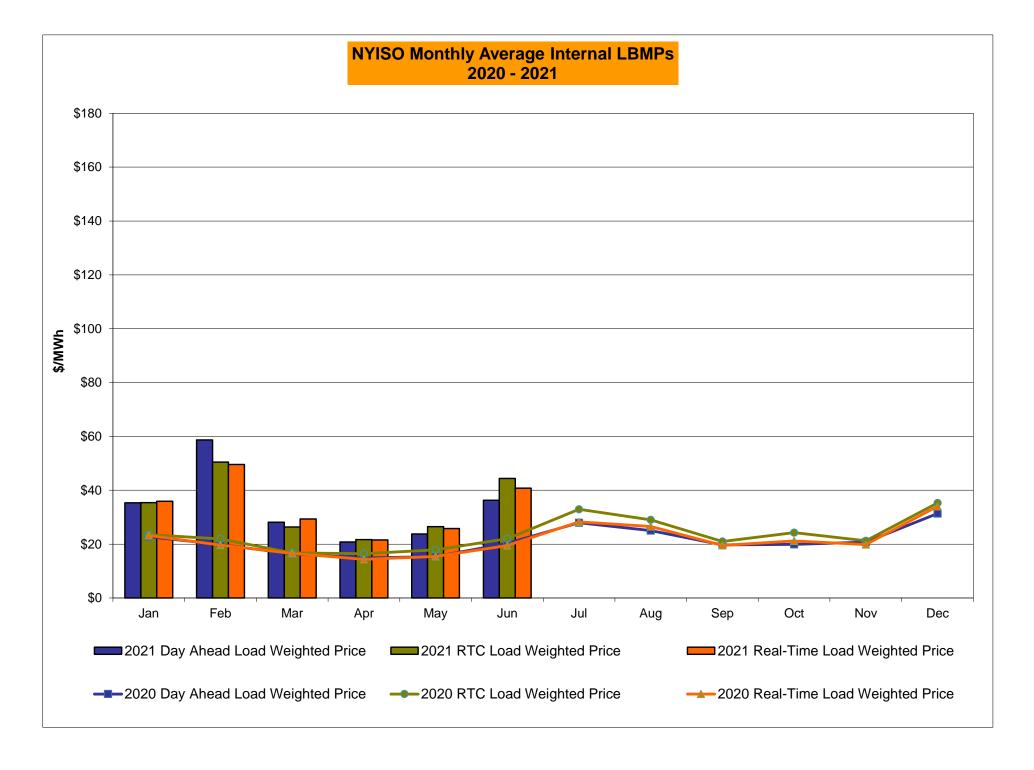
#### NYISO Markets 2021 Energy Statistics

	<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 December
DAY AHEAD LBMP									
Price *	\$34.37	\$57.30	\$27.47	\$20.46	\$22.95	\$33.36			
Standard Deviation	\$14.58	\$24.48	\$8.23	\$4.58	\$6.28	\$15.88			
Load Weighted Price **	\$35.31	\$58.67	\$28.12	\$20.81	\$23.75	\$36.28			
RTC LBMP									
Price *	\$34.32	\$49.25	\$25.59	\$21.30	\$25.36	\$39.69			
Standard Deviation	\$20.93	\$23.34	\$12.67	\$7.91	\$11.17	\$34.08			
Load Weighted Price **	\$35.40	\$50.48	\$26.37	\$21.67	\$26.50	\$44.41			
REAL TIME LBMP									
Price *	\$34.59	\$48.22	\$28.06	\$21.10	\$24.62	\$36.58			
Standard Deviation	\$29.47	\$26.46	\$26.13	\$10.07	\$10.91	\$25.43			
Load Weighted Price **	\$35.89	\$49.57	\$29.33	\$21.55	\$25.78	\$40.76			
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458			

#### NYISO Markets 2020 Energy Statistics

DAY AUEAD I DMD	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November [	<u>December</u>
DAY AHEAD LBMP Price * Standard Deviation	\$22.11 \$7.43	\$19.48 \$4.45	\$16.07 \$3.21	\$14.67 \$2.71	\$14.97 \$3.55	\$19.15 \$6.40	\$26.30 \$10.45	\$23.61 \$8.56	\$18.88 \$5.41	\$19.40 \$6.36	\$20.07 \$7.15	\$30.45 \$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.

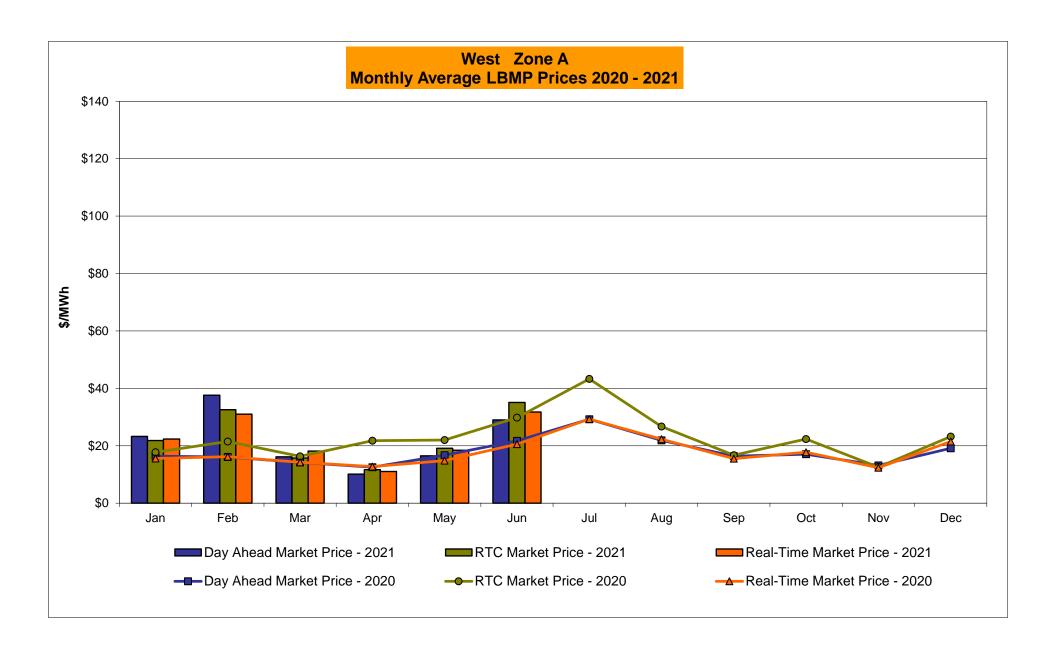


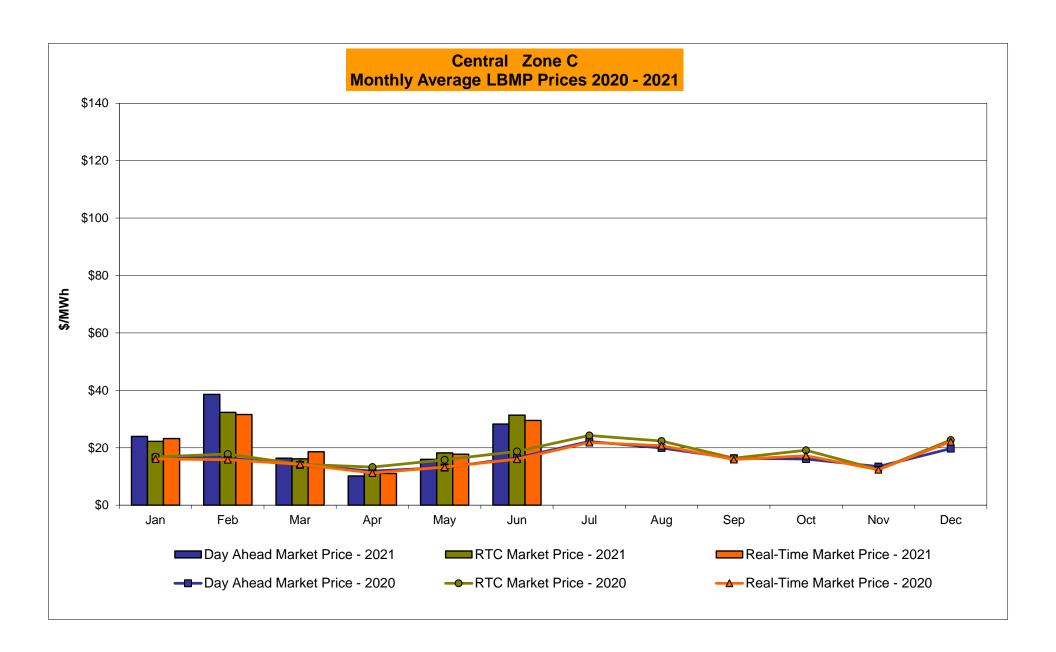
#### June 2021 Zonal LBMP Statistics for NYISO (\$/MWh)

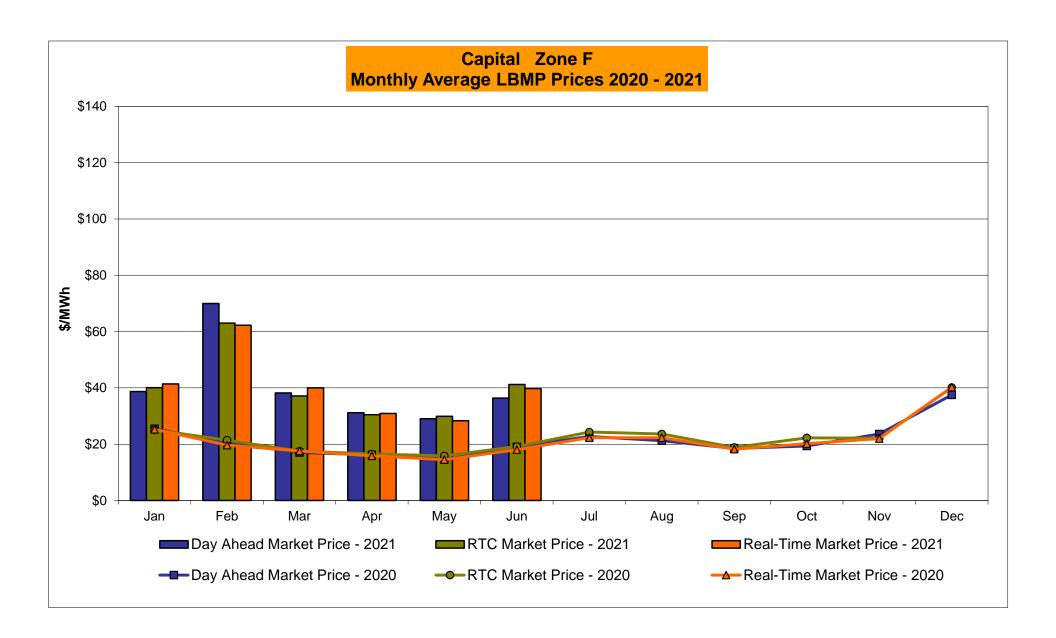
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	28.97	27.47	15.65	28.27	27.88	36.38	34.04	34.47	34.58	34.84	41.23
Standard Deviation	14.54	12.68	12.02	13.28	13.71	15.97	14.58	15.05	15.09	15.16	25.54
RTC LBMP											
Unweighted Price *	35.11	30.22	23.23	31.34	31.44	41.17	37.03	40.72	39.84	40.03	56.47
Standard Deviation	46.80	25.88	29.21	27.17	27.03	31.42	26.84	41.86	33.50	32.91	95.40
REAL TIME LBMP											
Unweighted Price *	31.74	28.79	20.60	29.52	29.79	39.74	35.93	39.20	38.35	38.71	45.30
Standard Deviation	32.15	20.18	32.67	20.76	21.29	28.26	22.46	36.58	29.09	29.12	37.37
		HYDRO	HYDRO			CROSS					
	ONTARIO	QUEBEC	QUEBEC		NEW	SOUND	NORTHPORT-				
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	IESO	QUEBEC (Wheel) (I	QUEBEC mport/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable	Controllable	Controllable
		QUEBEC	QUEBEC	PJM Zone P		SOUND CABLE	NORWALK				
DAY AHEAD LBMP	IESO  Zone O	QUEBEC (Wheel) (I	QUEBEC mport/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> 25.94	QUEBEC (Wheel) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QUEBEC mport/Export)  Zone M  23.29	<b>Zone P</b> 30.99	Zone N 34.93	SOUND CABLE Controllable Line 42.48	NORWALK Controllable Line 35.85	Controllable Line 37.78	Controllable Line 33.14	Controllable Line 34.53	Controllable Line 15.96
	IESO  Zone O	QUEBEC (Wheel) (I	QUEBEC mport/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> 25.94	QUEBEC (Wheel) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QUEBEC mport/Export)  Zone M  23.29	<b>Zone P</b> 30.99	Zone N 34.93	SOUND CABLE Controllable Line 42.48	NORWALK Controllable Line 35.85	Controllable Line 37.78	Controllable Line 33.14	Controllable Line 34.53	Controllable Line 15.96
Unweighted Price * Standard Deviation	<b>Zone O</b> 25.94	QUEBEC (Wheel) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QUEBEC mport/Export)  Zone M  23.29	<b>Zone P</b> 30.99	Zone N 34.93	SOUND CABLE Controllable Line 42.48	NORWALK Controllable Line 35.85	Controllable Line 37.78	Controllable Line 33.14	Controllable Line 34.53	Controllable Line 15.96
Unweighted Price * Standard Deviation  RTC LBMP	Zone O 25.94 11.85	QUEBEC (Wheel) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QUEBEC mport/Export)  Zone M  23.29 11.86	<b>Zone P</b> 30.99 13.29	<b>Zone N</b> 34.93 16.19	SOUND CABLE Controllable Line 42.48 29.52	NORWALK Controllable Line 35.85 14.12	Controllable Line 37.78 15.94	Controllable Line 33.14 11.27	Controllable Line 34.53 15.00	Controllable Line 15.96 11.44
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price *	Zone O 25.94 11.85 27.85	QUEBEC (Wheel) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QUEBEC mport/Export)  Zone M  23.29 11.86	Zone P 30.99 13.29 34.09	<b>Zone N</b> 34.93 16.19	SOUND CABLE Controllable Line 42.48 29.52	NORWALK Controllable Line 35.85 14.12	27.78 37.78 15.94	233.14 11.27	Controllable Line 34.53 15.00	Controllable Line 15.96 11.44
Unweighted Price * Standard Deviation  RTC LBMP  Unweighted Price * Standard Deviation	Zone O 25.94 11.85 27.85	QUEBEC (Wheel) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QUEBEC mport/Export)  Zone M  23.29 11.86	Zone P 30.99 13.29 34.09	<b>Zone N</b> 34.93 16.19	SOUND CABLE Controllable Line 42.48 29.52	NORWALK Controllable Line 35.85 14.12	27.78 37.78 15.94	233.14 11.27	Controllable Line 34.53 15.00	Controllable Line 15.96 11.44

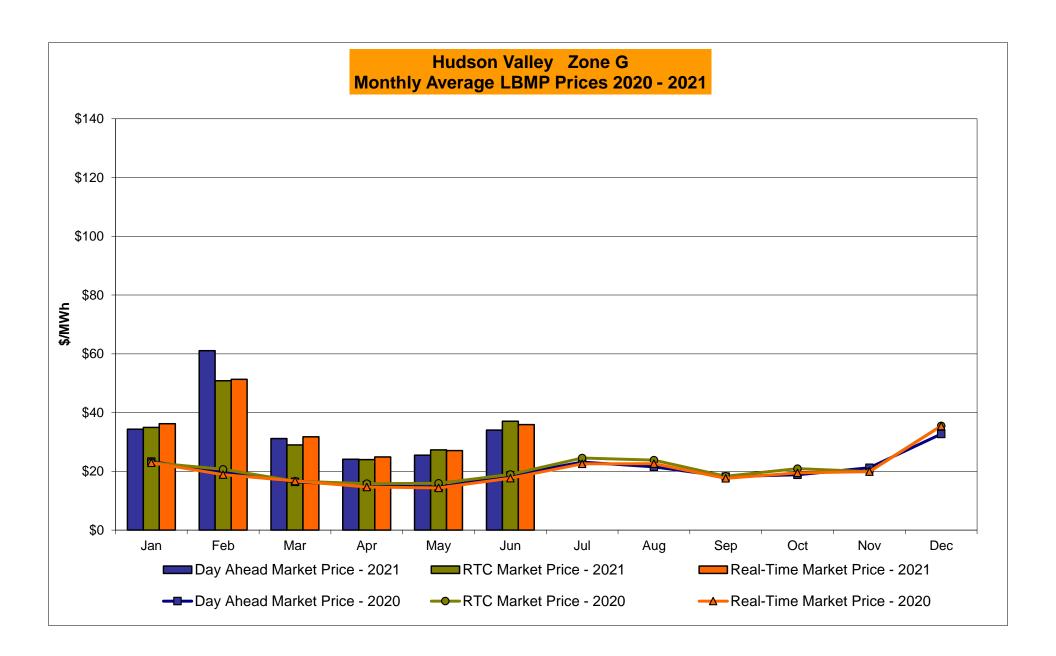
Market Mitigation and Analysis Prepared: 7/9/2021 4:12 PM

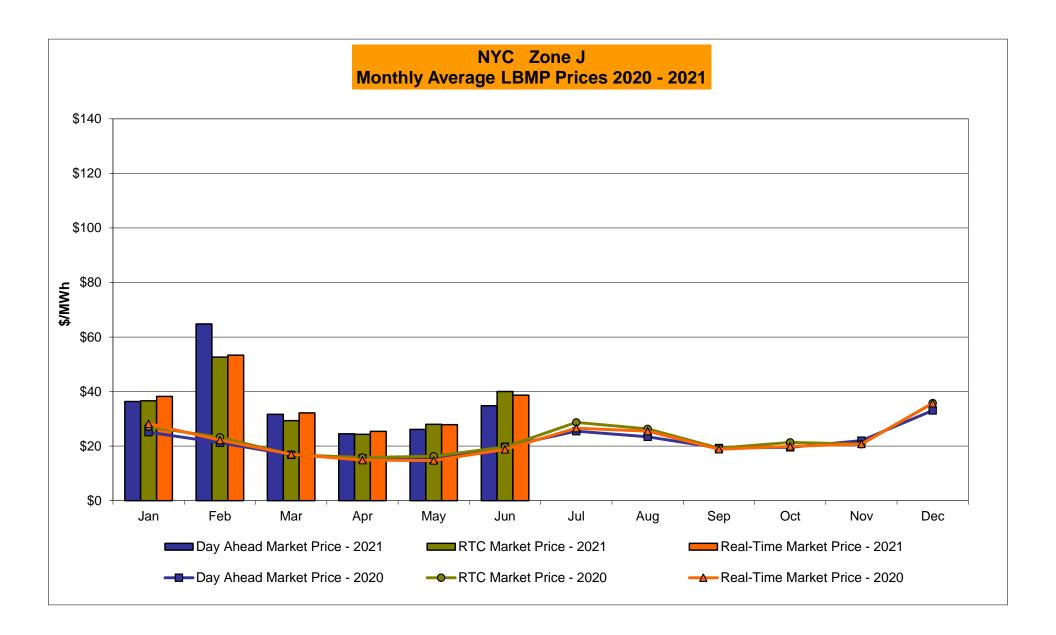
<sup>\*</sup> Straight LBMP averages

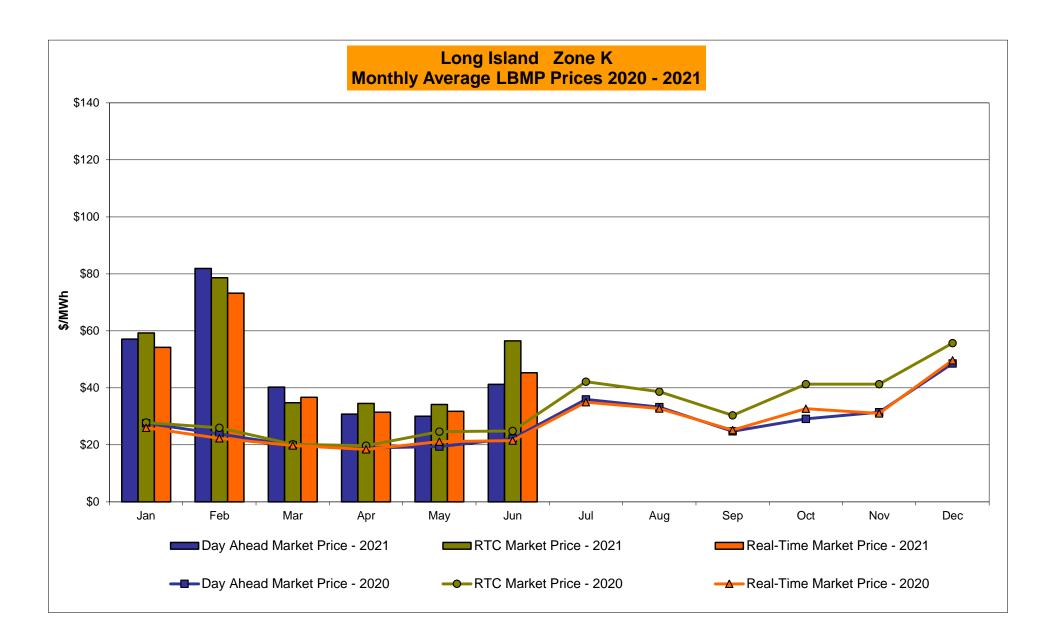


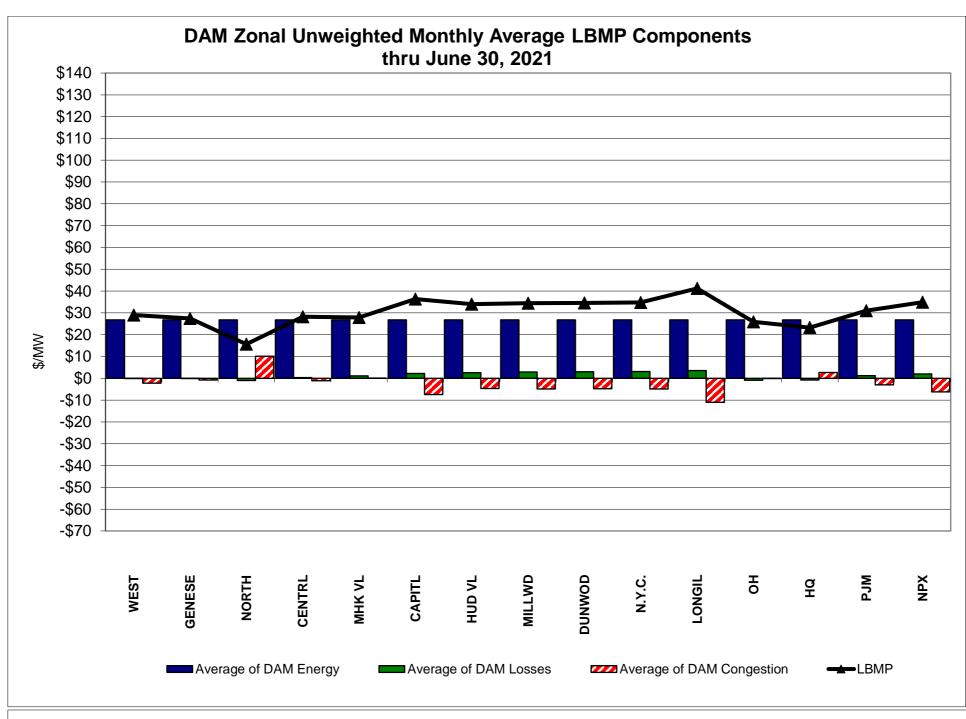


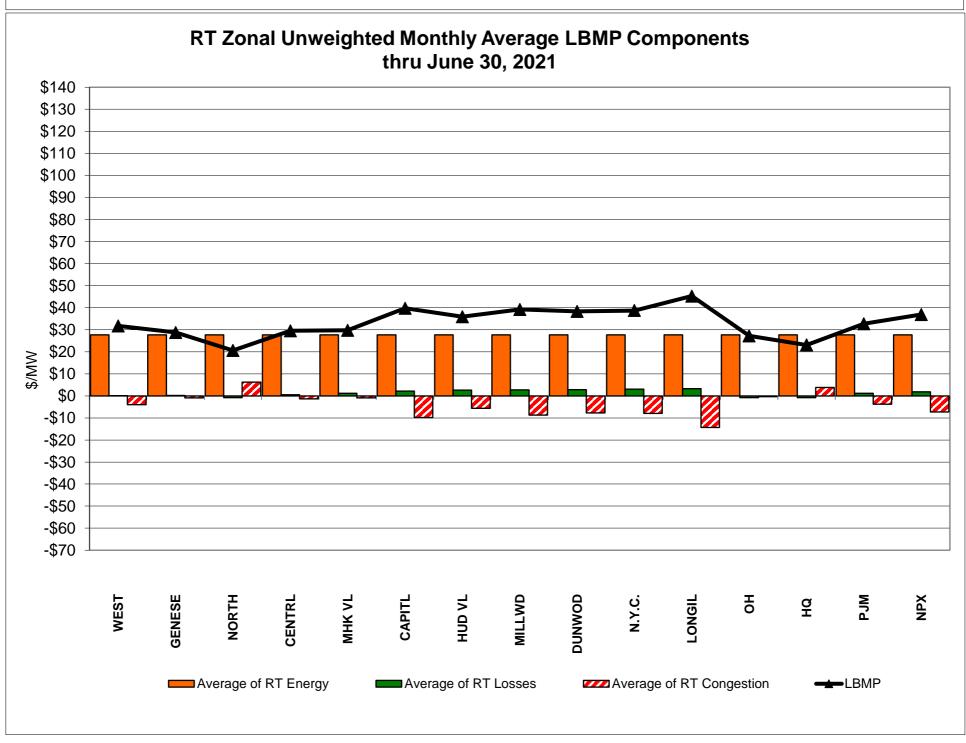




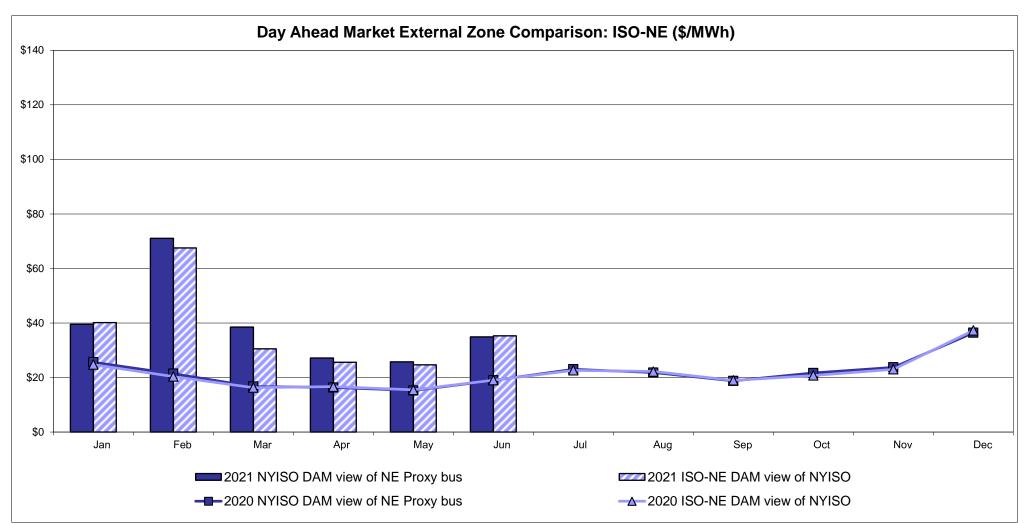


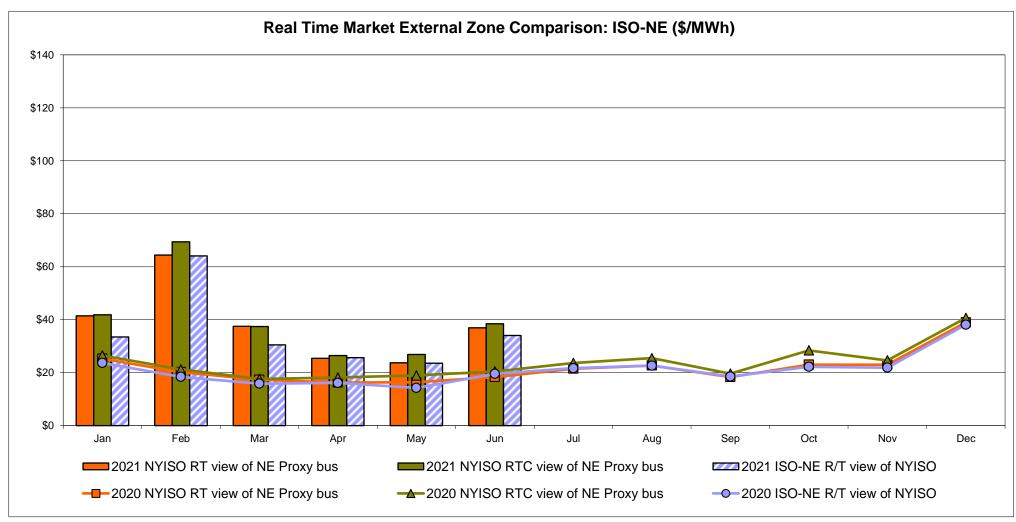




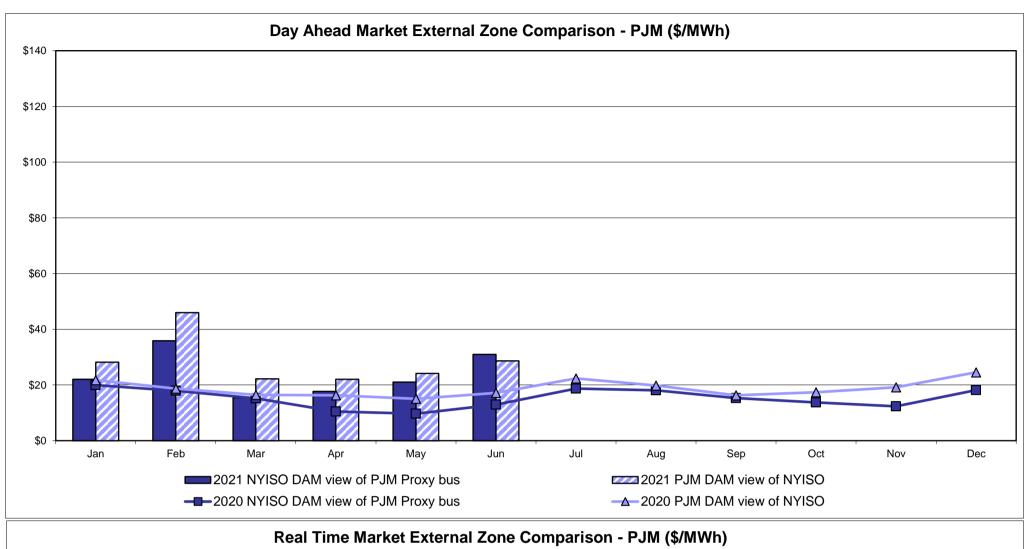


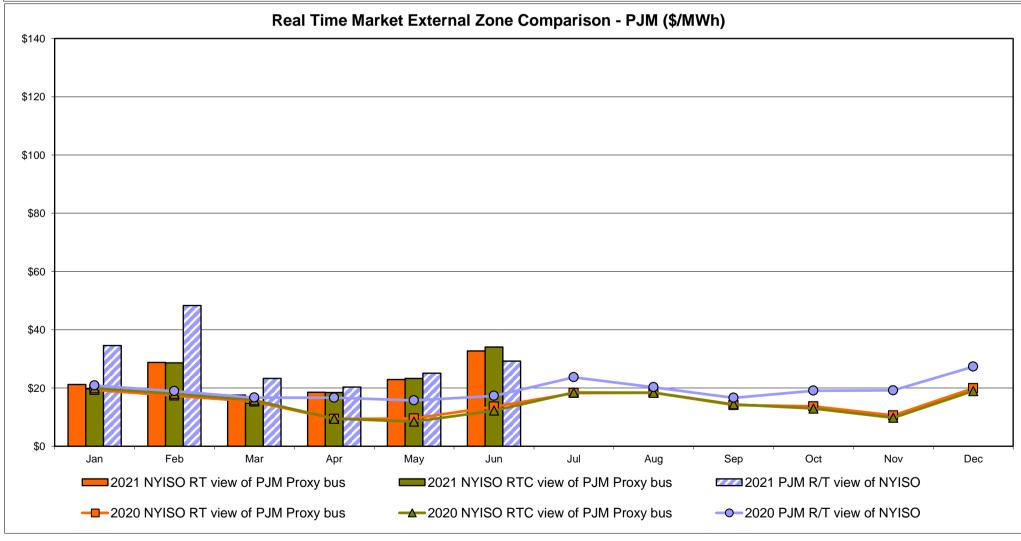
# **External Comparison ISO-New England**



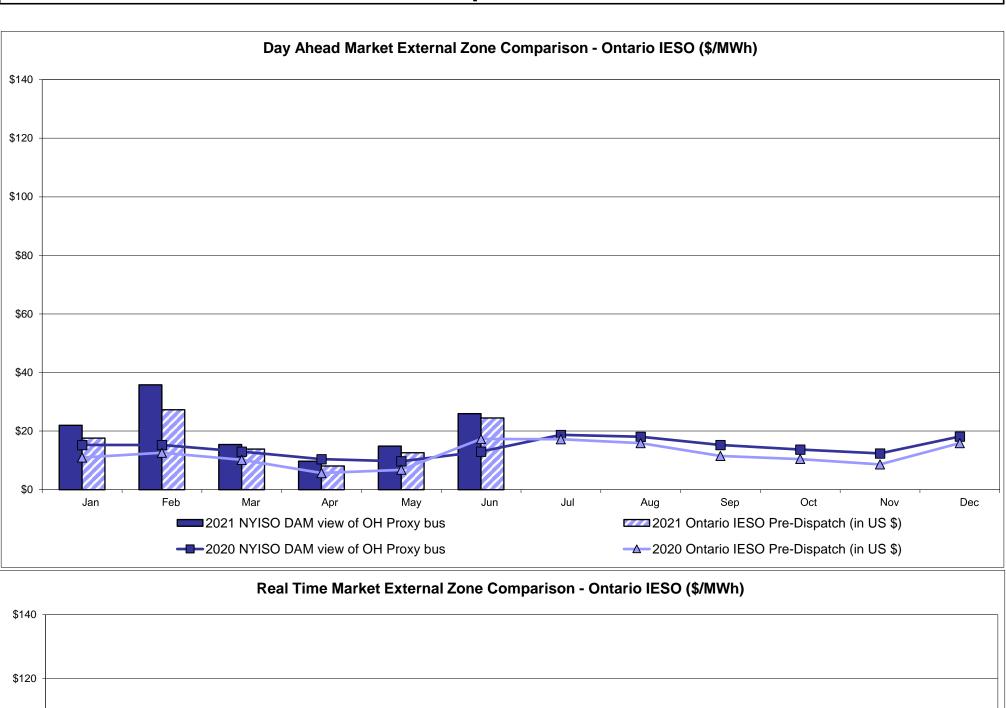


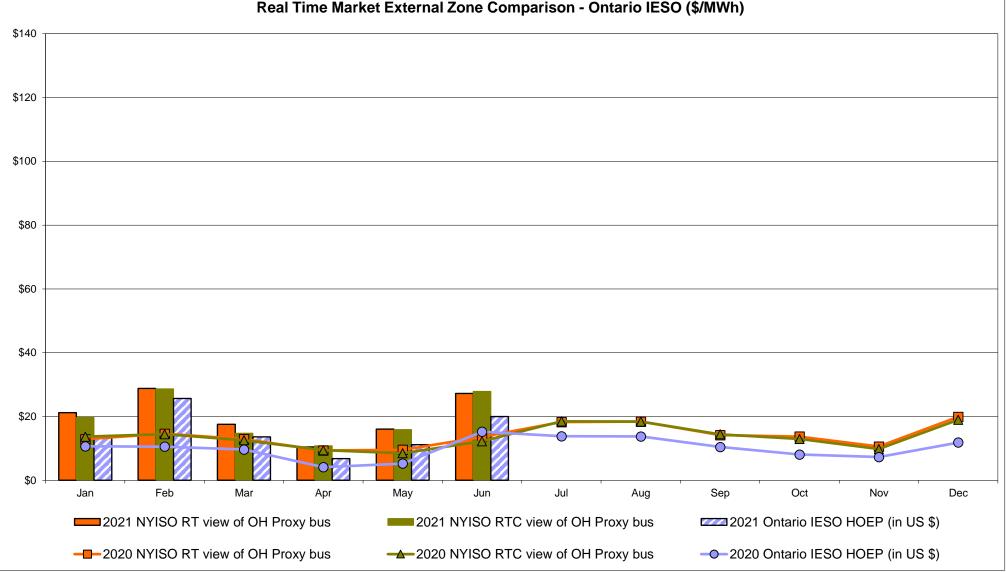
# **External Comparison PJM**





## **External Comparison Ontario IESO**

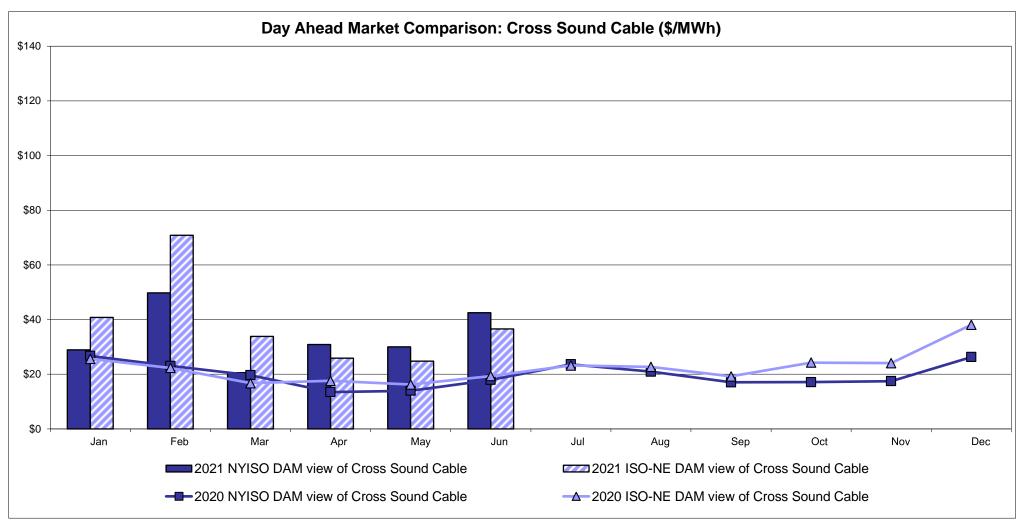


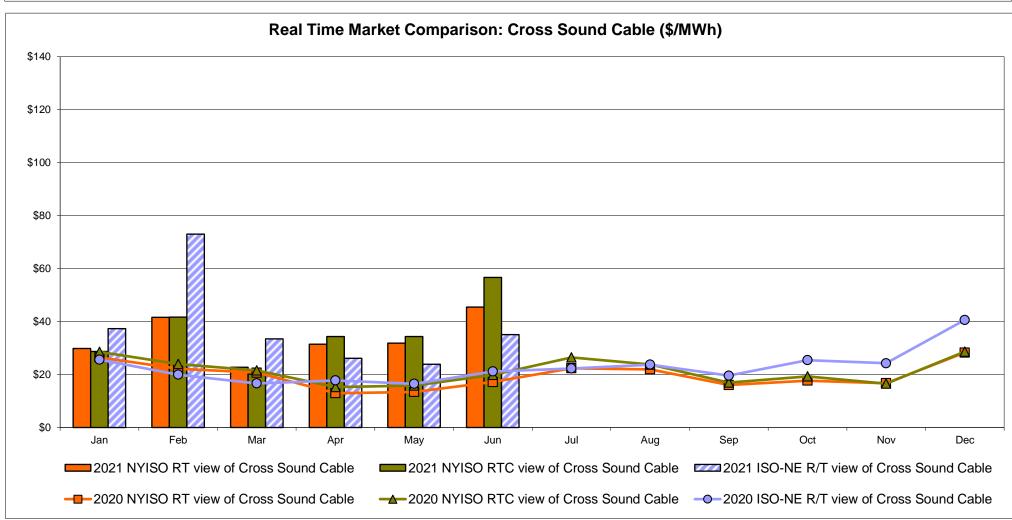


Notes: Exchange factor used for June 2021 was 0.818330605564648 to US

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

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





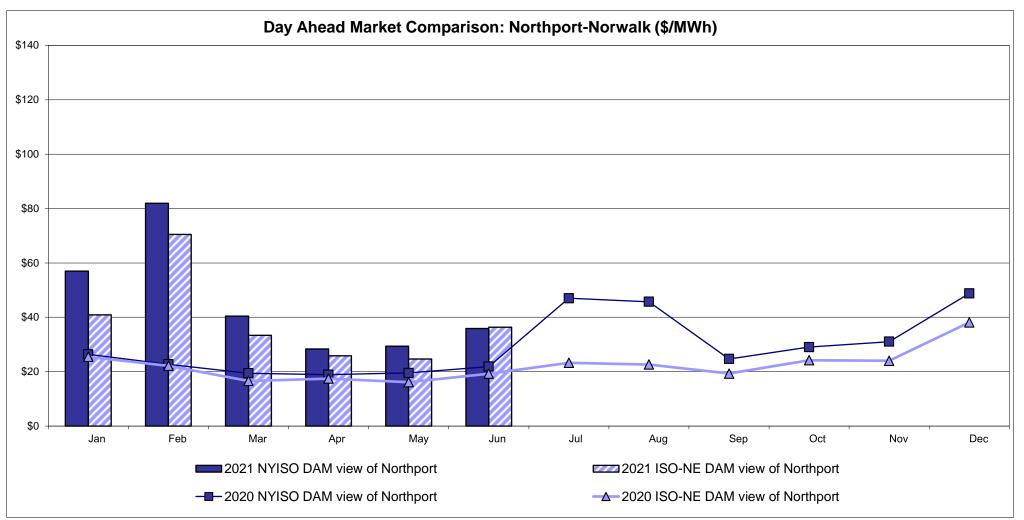
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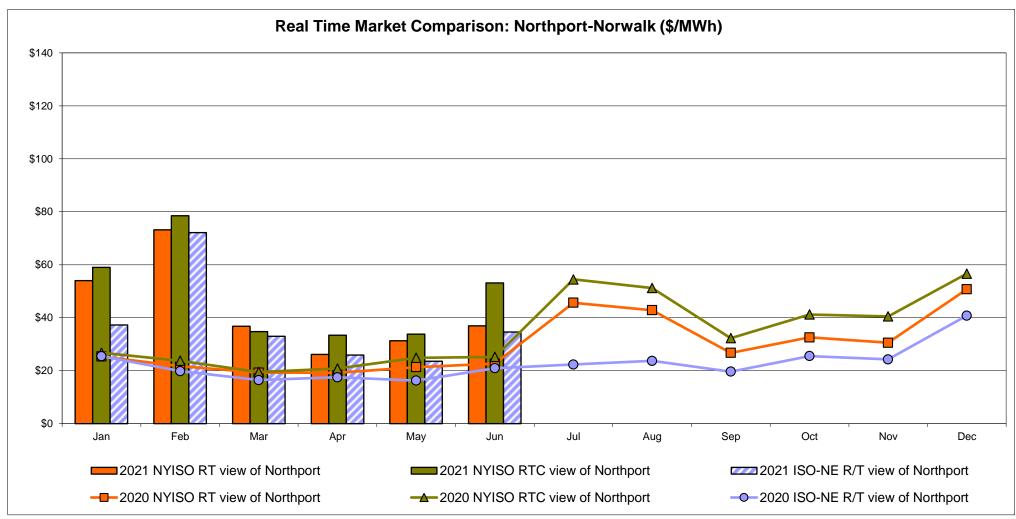
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)**





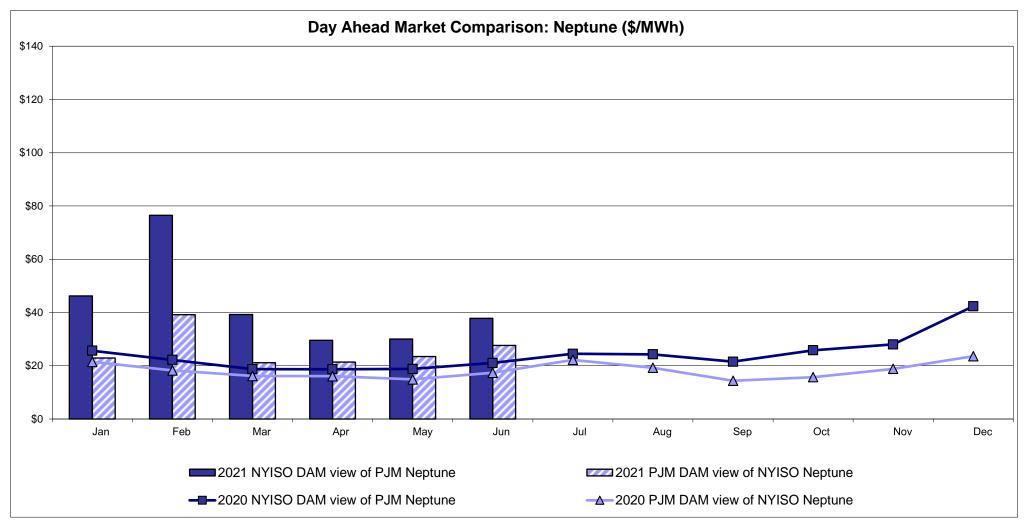
#### Note:

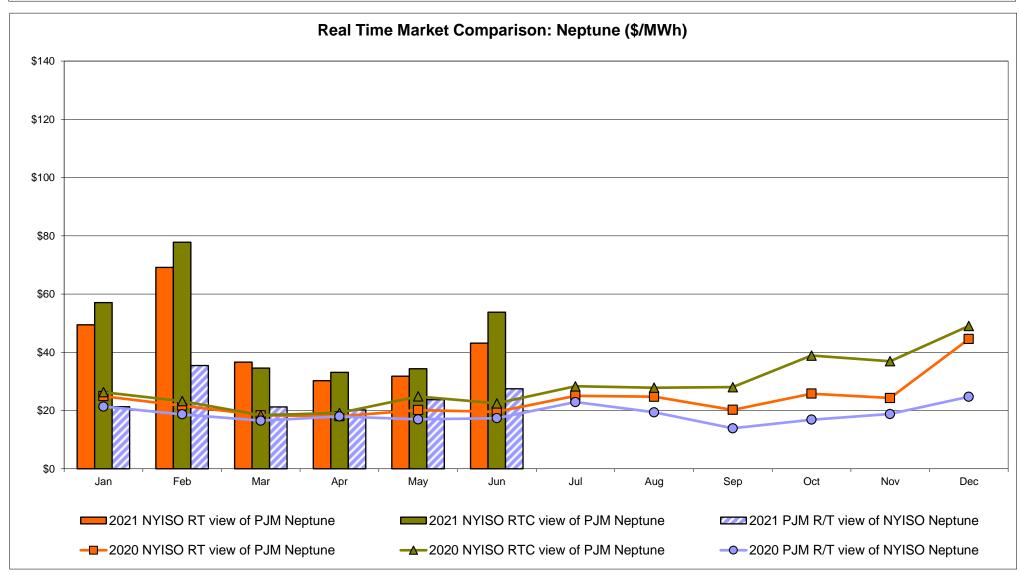
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

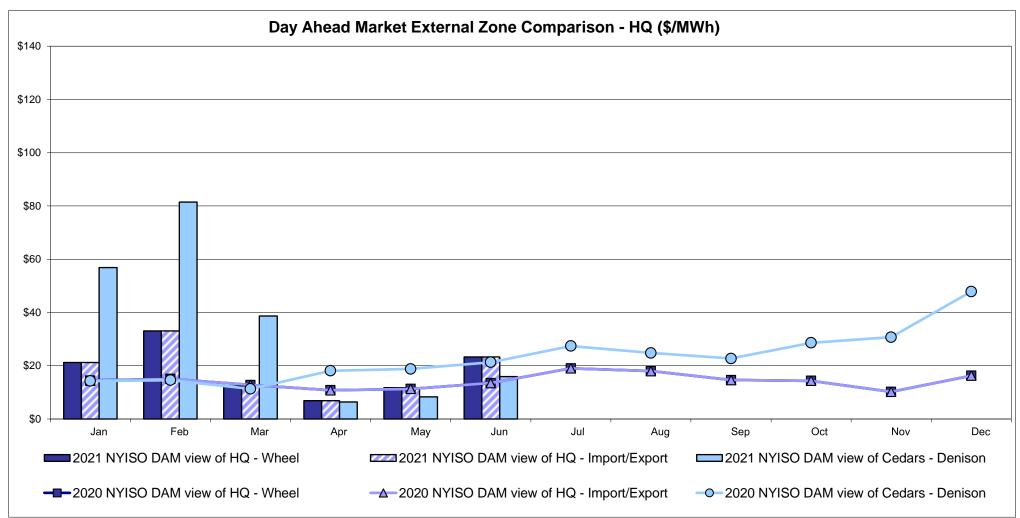
The DAM and R/T prices at the 1385 interface are used for NYISO.

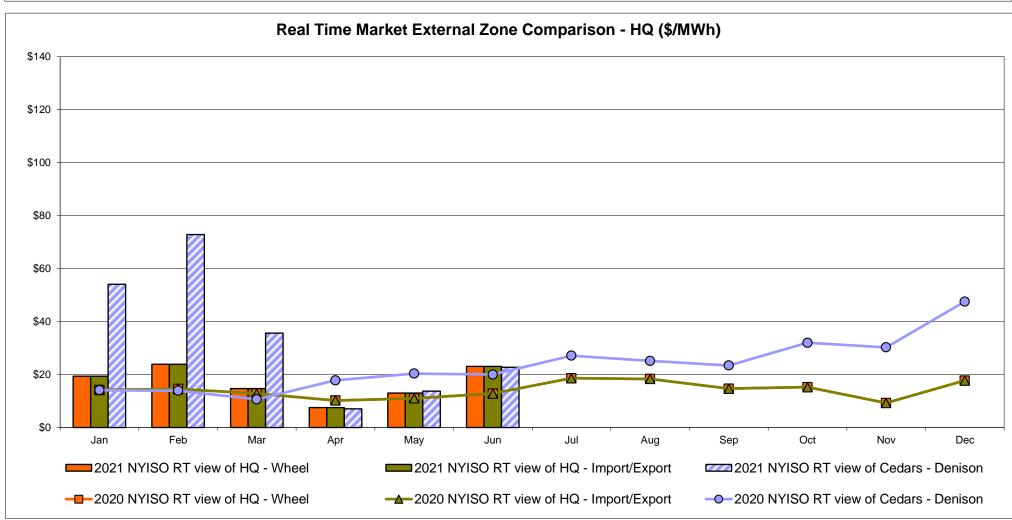
# **External Controllable Line: Neptune (PJM)**





# **External Comparison Hydro-Quebec**

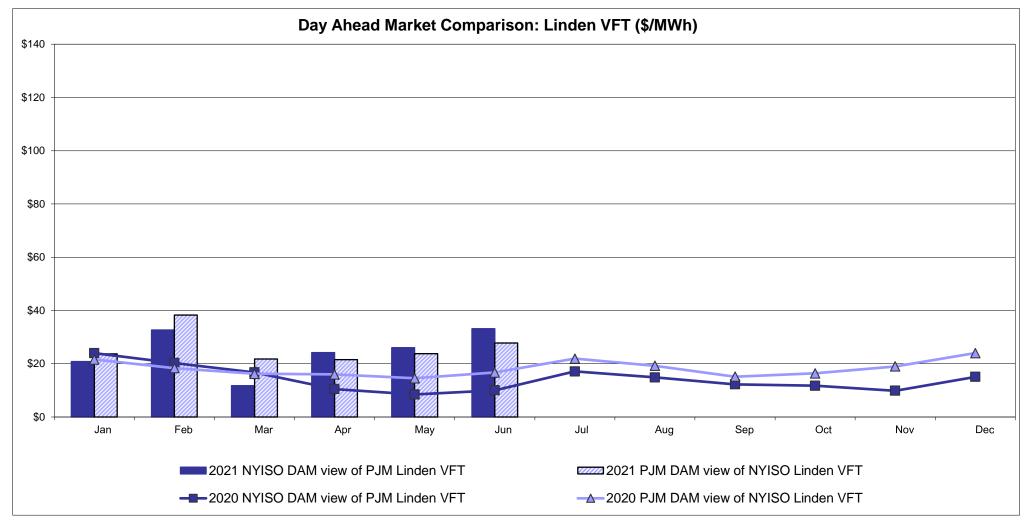


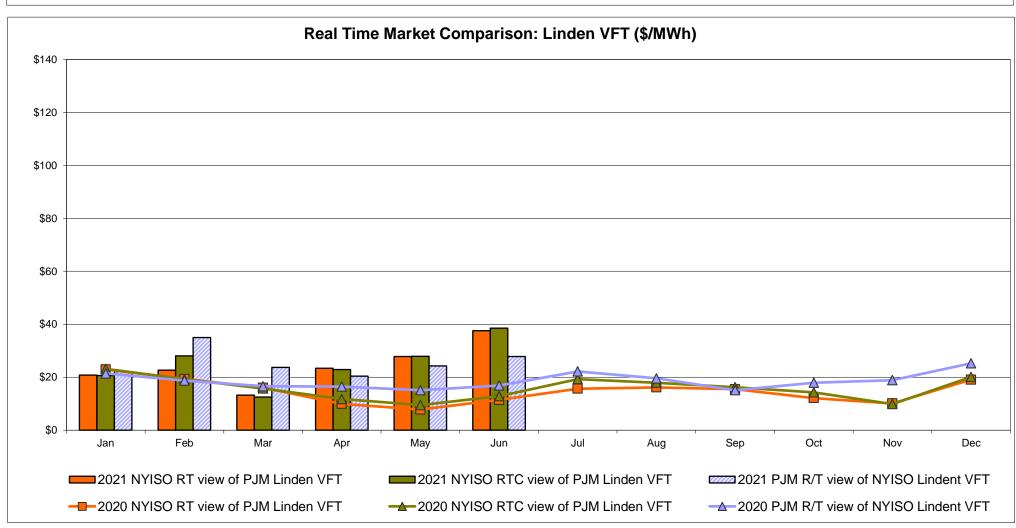


Note:

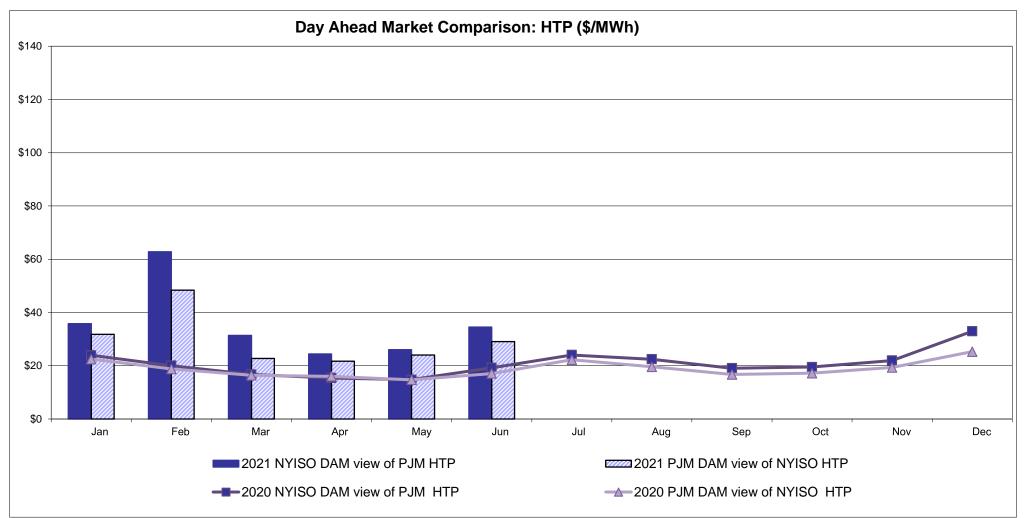
Hydro-Quebec Prices are unavailable.

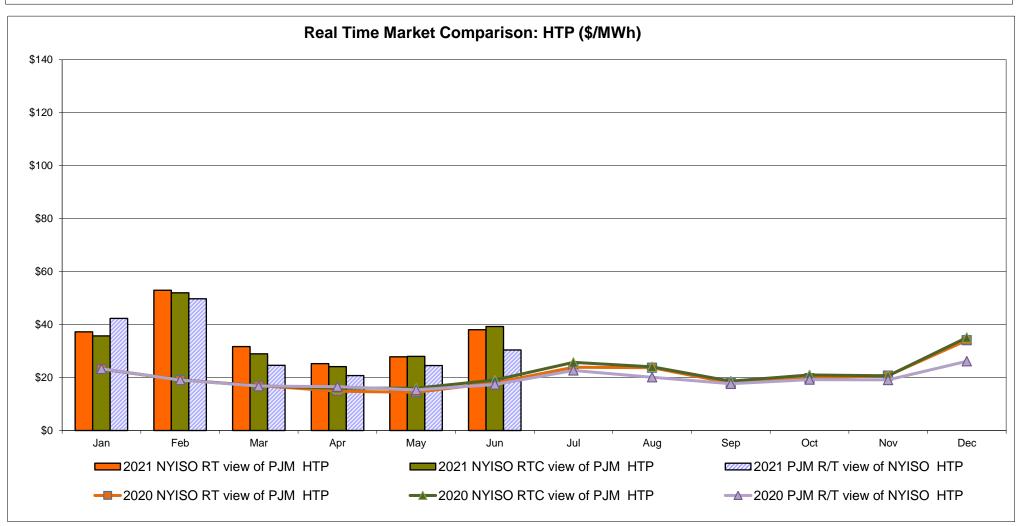
# **External Controllable Line: Linden VFT (PJM)**





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

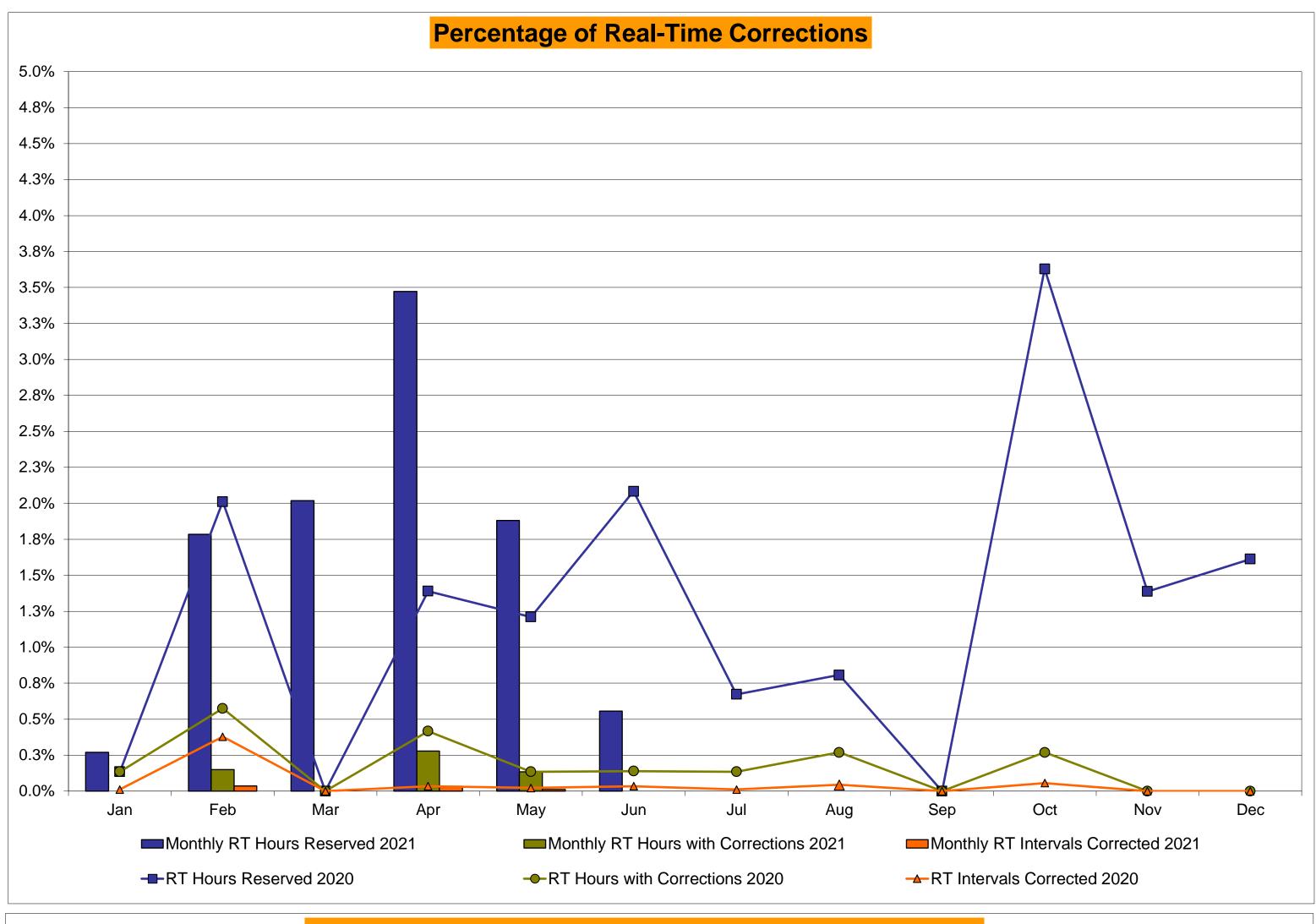


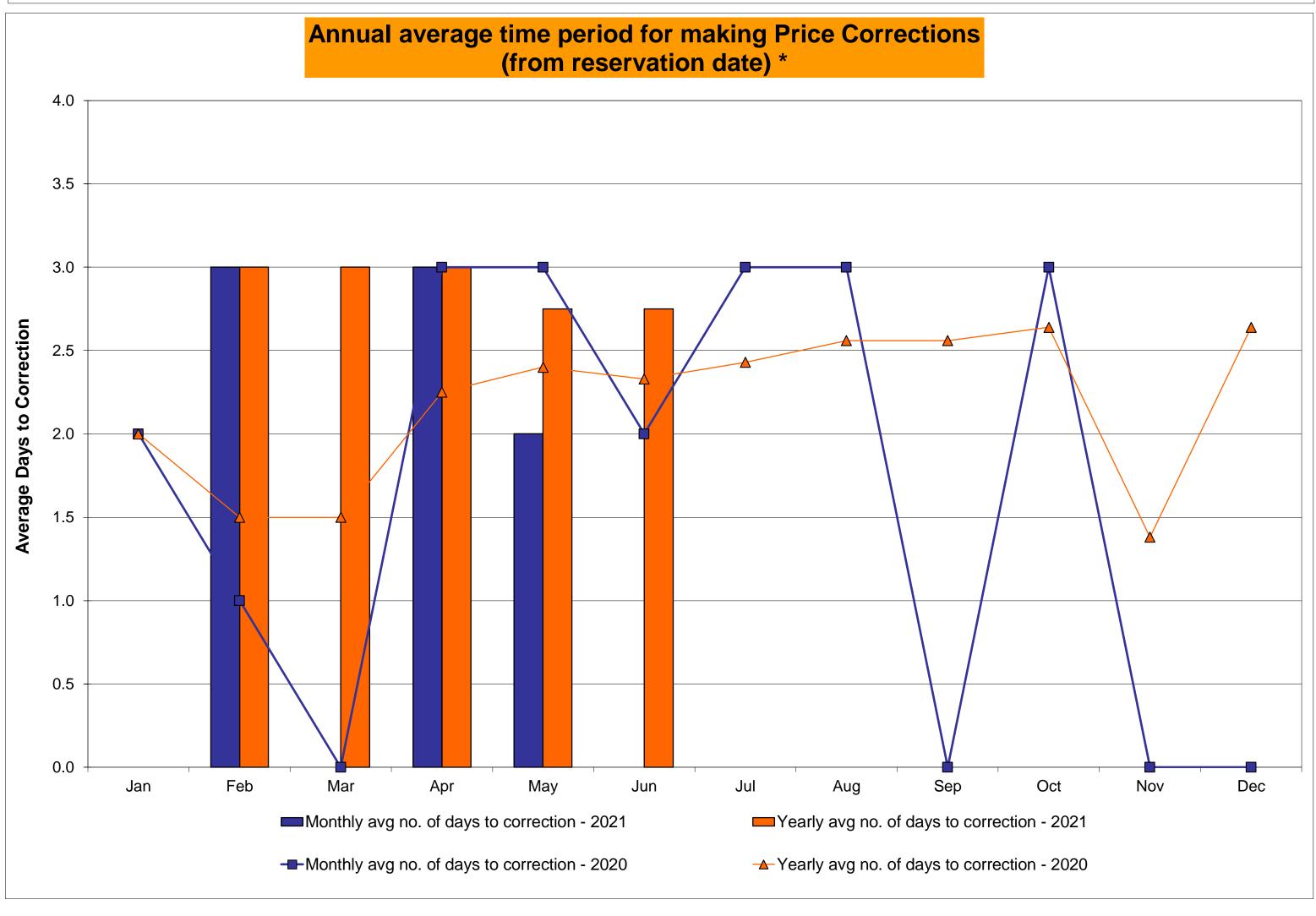


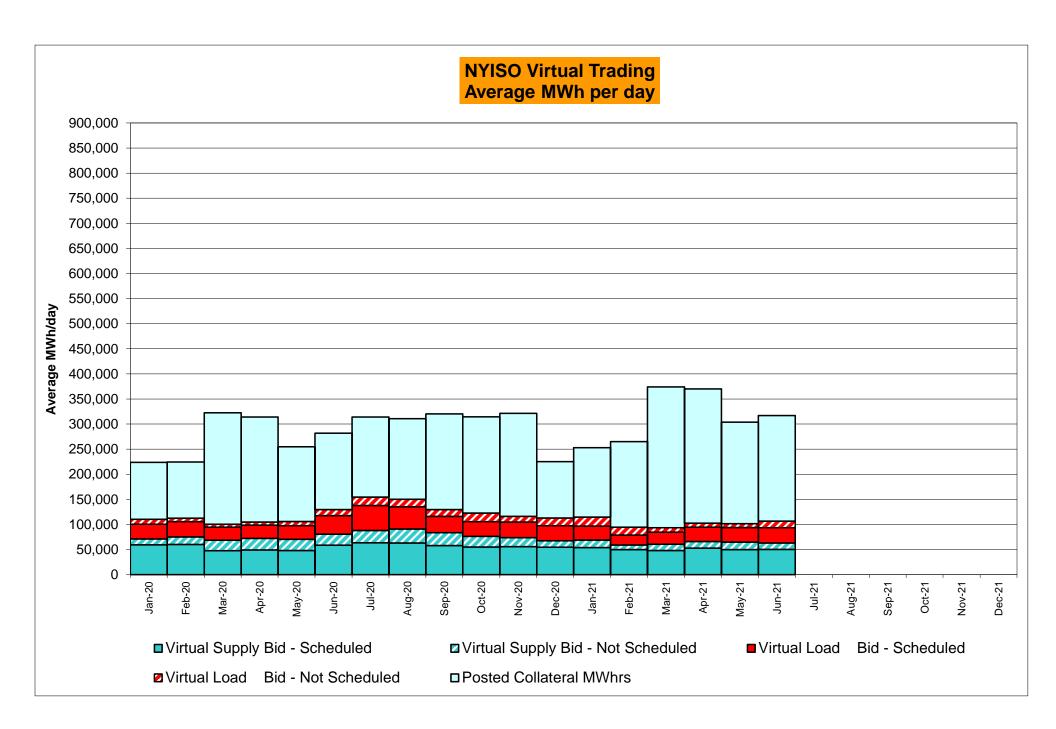
### **NYISO Real Time Price Correction Statistics**

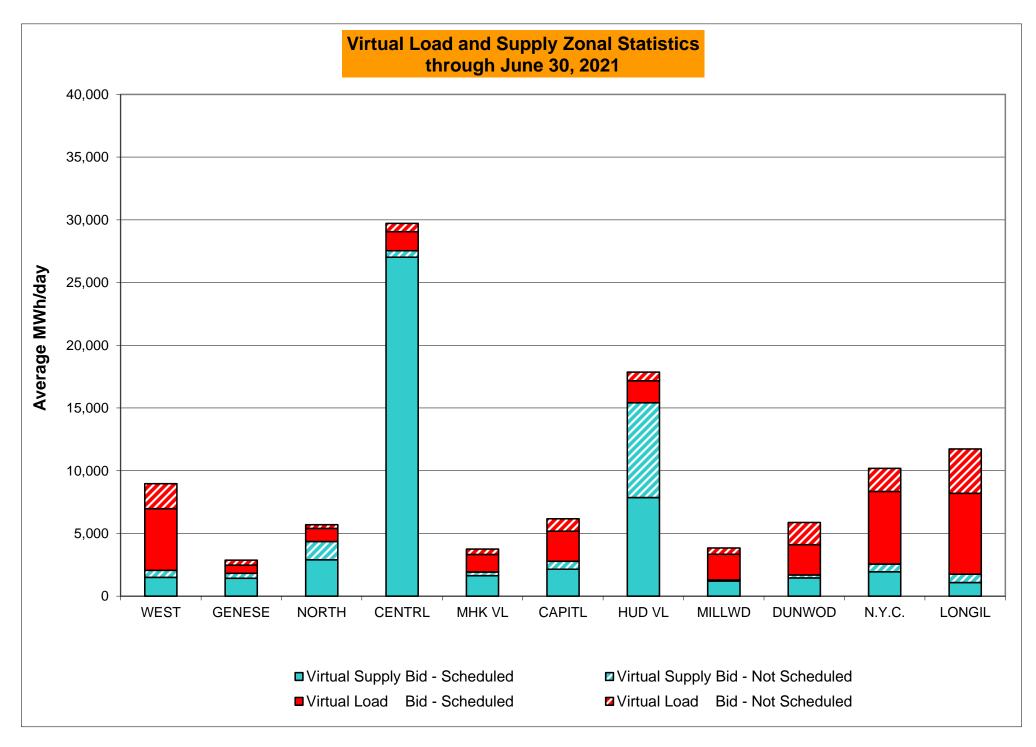
							COLLECTION						
<u>2021</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	0	1	0	2	1	0						
Number of hours	in the month	744	672	743	720	744	720						
% of hours with corrections	in the month	0.00%	0.15%	0.00%	0.28%	0.13%	0.00%						
% of hours with corrections	year-to-date	0.00%	0.07%	0.05%	0.10%	0.11%	0.09%						
Interval Corrections													
Number of intervals corrected	in the month	0	3	0	3	1	0						
Number of intervals	in the month	9,095	8,236	9,100	8,827	9,157	8,813						
% of intervals corrected	in the month	0.00%	0.04%	0.00%	0.03%	0.01%	0.00%						
% of intervals corrected	year-to-date	0.00%	0.02%	0.01%	0.02%	0.02%	0.01%						
Hours Reserved	•												
Number of hours reserved	in the month	2	12	15	25	14	4						
Number of hours	in the month	744	672	743	720	744	720						
% of hours reserved	in the month	0.27%	1.79%	2.02%	3.47%	1.88%	0.56%						
% of hours reserved	year-to-date	0.27%	0.99%	1.34%	1.88%	1.88%	1.66%						
Days to Correction *	•												
Avg. number of days to correction	in the month	0.00	3.00	0.00	3.00	2.00	0.00						
Avg. number of days to correction	year-to-date	0.00	3.00	3.00	3.00	2.75	2.75						
Days Without Corrections	,												
Days without corrections	in the month	31	27	31	28	30	30						
Days without corrections	year-to-date	31	58	89	117	147	177						
2020		lanuary	February	March	Δnril	May	luna	luly	August	Sentember	October	November	December
2020		<u>January</u>	February	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
Hour Corrections	in the month	<u>January</u>				<u>May</u>	<u>June</u>	<u>July</u>					<u>December</u>
Hour Corrections  Number of hours with corrections	in the month	1	4	0	3	1	1	1	2	0	2	0	0
Hour Corrections  Number of hours with corrections  Number of hours	in the month	1 744	4 696	0 743	3 720	1 744	1 720	1 744	2 744	0 720	2 744	0 721	0 744
Hour Corrections  Number of hours with corrections		1	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	0 744 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month	1 744	4 696	0 743	3 720	1 744	1 720	1 744	2 744	0 720	2 744	0 721	0 744
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%	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%	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% <u>0.22%</u>	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	in the month in the month year-to-date in the month in the month	1 744 0.13% 0.13% 1 9,088	4 696 0.57% 0.35% 32 8,460	0 743 0.00% 0.23% 0 9,011	3 720 0.42% 0.28% 3 8,776	1 744 0.13% 0.25% 2 9,030	1 720 0.14% 0.23% 3 8,826	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	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% <u>0.22%</u>	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 % of intervals corrected	in the month in the month year-to-date in the month in the month	1 744 0.13% 0.13% 1 9,088	4 696 0.57% 0.35% 32 8,460	0 743 0.00% 0.23% 0 9,011	3 720 0.42% 0.28% 3 8,776	1 744 0.13% 0.25% 2 9,030	1 720 0.14% 0.23% 3 8,826	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%	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% 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 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% 27 744	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% 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 % of hours reserved % 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 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% 27 744	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 % 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	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13% 0.13% 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%	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% 3.00	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%	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  Number of 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	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 % 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	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%	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% 3.00	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%	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  Number of 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% 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%	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% 3.00	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%	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 Load Bid **Virtual Supply Bid Virtual Load Bid Virtual Supply Bid** Virtual Load Bid **Virtual Supply Bid** Not Not Not Not Not Not Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Zone Zone Zone MHK VL DUNWOD **WEST** 1,076 2,000 Jan-21 6,262 1,726 2,018 Jan-21 1,537 548 1,967 531 Jan-21 1,881 2,339 475 Feb-21 4,588 1,544 1,842 959 Feb-21 1,031 584 2,081 392 Feb-21 912 1,806 2,015 568 Mar-21 5,696 840 1,144 893 Mar-21 1,669 305 1,402 524 Mar-21 1,303 817 1,780 1,142 6,747 1,100 1,948 873 1,741 1,982 670 1,519 638 2,166 524 Apr-21 Apr-21 366 Apr-21 2,009 3,219 461 7,289 1,632 1,432 630 May-21 1,279 353 447 May-21 868 1,347 May-21 Jun-21 4,916 1,989 1,498 559 Jun-21 1,400 438 1,637 283 Jun-21 2,411 1,770 1,455 233 Jul-21 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 CAPITL N.Y.C. Jan-21 1,117 1,085 853 Jan-21 3,046 1,995 2,207 792 Jan-21 3,486 2,580 2,503 679 2.275 Feb-21 857 390 1,310 617 Feb-21 2.483 1,967 2.065 535 Feb-21 1.983 2.475 678 Mar-21 817 295 1,433 833 Mar-21 3,192 Mar-21 2,149 1,385 2,465 757 1,581 2,230 1,041 Apr-21 1,396 466 1,251 834 Apr-21 3,404 694 Apr-21 3,175 662 2,770 1,075 2,116 602 May-21 862 431 1,680 486 May-21 1,417 532 2,776 837 May-21 2,664 678 2,697 532 390 2.396 Jun-21 653 393 1,426 Jun-21 994 2,144 636 Jun-21 5,791 1.832 1,941 620 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 3,280 HUD VL 5,917 LONGIL 4,341 4.976 Jan-21 830 498 1,220 Jan-21 1,666 7.429 Jan-21 3.261 686 1,215 Feb-21 405 410 2,654 1,258 Feb-21 3,899 3,560 1,758 862 1,685 1,148 4,967 2,247 Feb-21 Mar-21 641 125 3,152 2,052 Mar-21 1,013 455 5,555 3,086 Mar-21 4,846 2,196 2,232 1,195 6,547 6,288 2,121 1,031 278 411 5,166 1,581 Apr-21 3,310 1,622 Apr-21 1,096 Apr-21 631 1,041 164 1,703 425 5,040 1,422 961 May-21 3,171 May-21 1,658 8,201 May-21 6,112 1,898 1,051 294 1,454 7,862 3,532 1,082 Jun-21 2,897 Jun-21 1,758 692 7,556 Jun-21 6,451 663 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 2,108 12,586 Mar-21 541 24,874 888 Mar-21 731 240 1,732 175 Mar-21 24,164 8,780 47,999 941 25,006 1,249 775 359 2,106 Apr-21 3.179 Apr-21 126 Apr-21 28,658 7,818 53.015 13,052 May-21 1,973 708 27,134 433 May-21 1,245 245 1,386 145 May-21 28,758 7,933 50,094 14,836 Jun-21 1,508 672 27,029 512 Jun-21 2,049 506 1,203 85 Jun-21 30,385 13,112 50,174 12,992

Jul-21

Aug-21

Sep-21

Oct-21

Nov-21

Dec-21

Jul-21

Aug-21

Sep-21

Oct-21

Nov-21

Dec-21

Jul-21

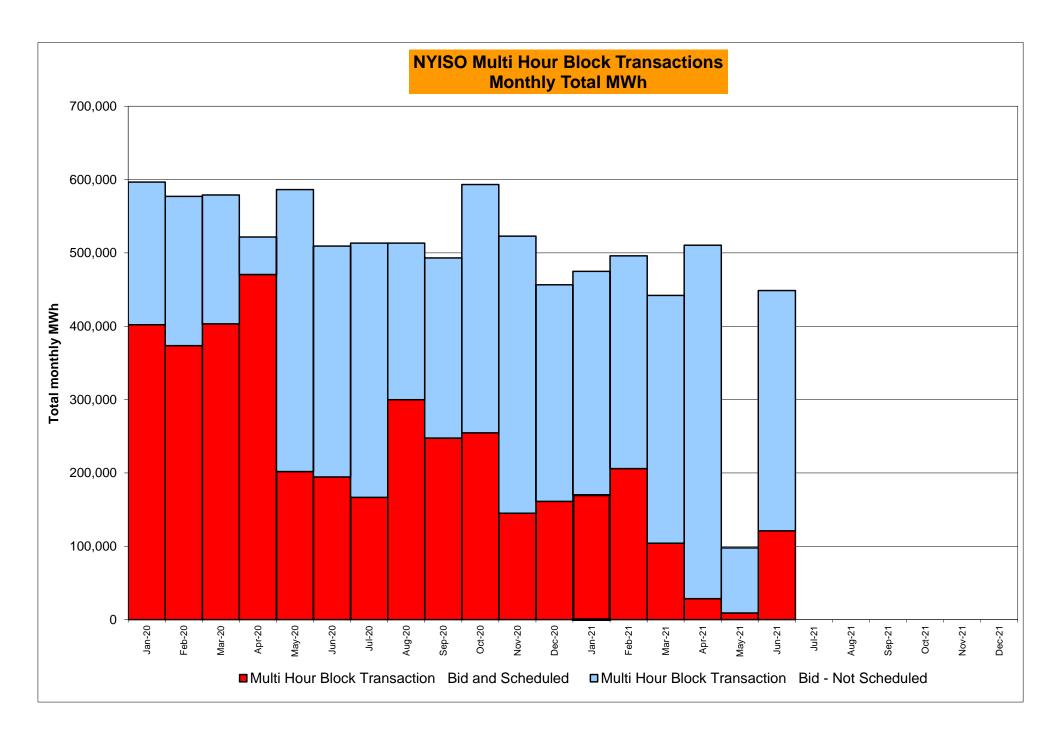
Aug-21

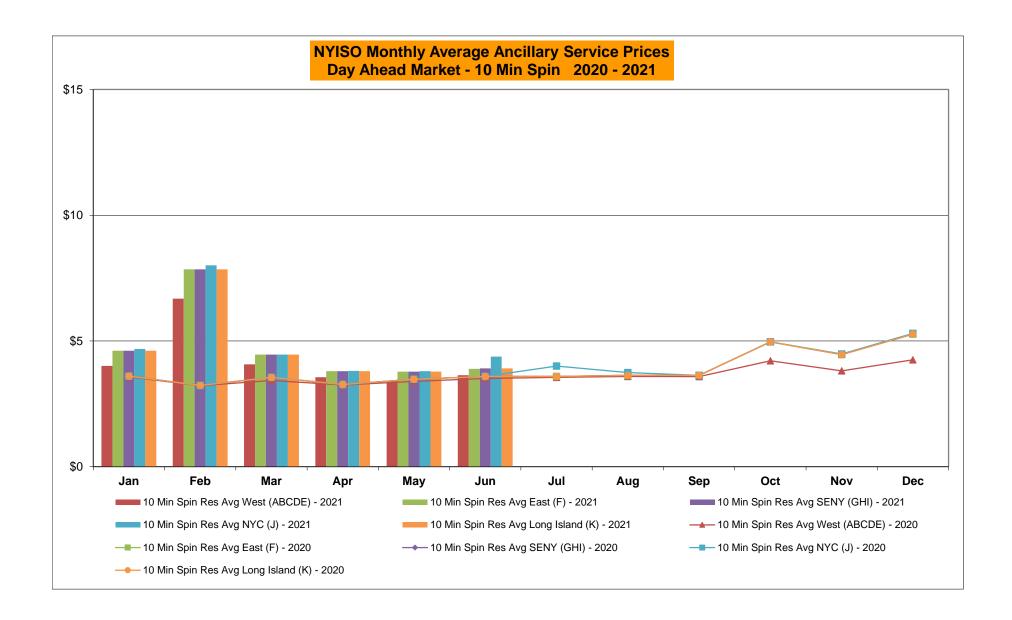
Sep-21

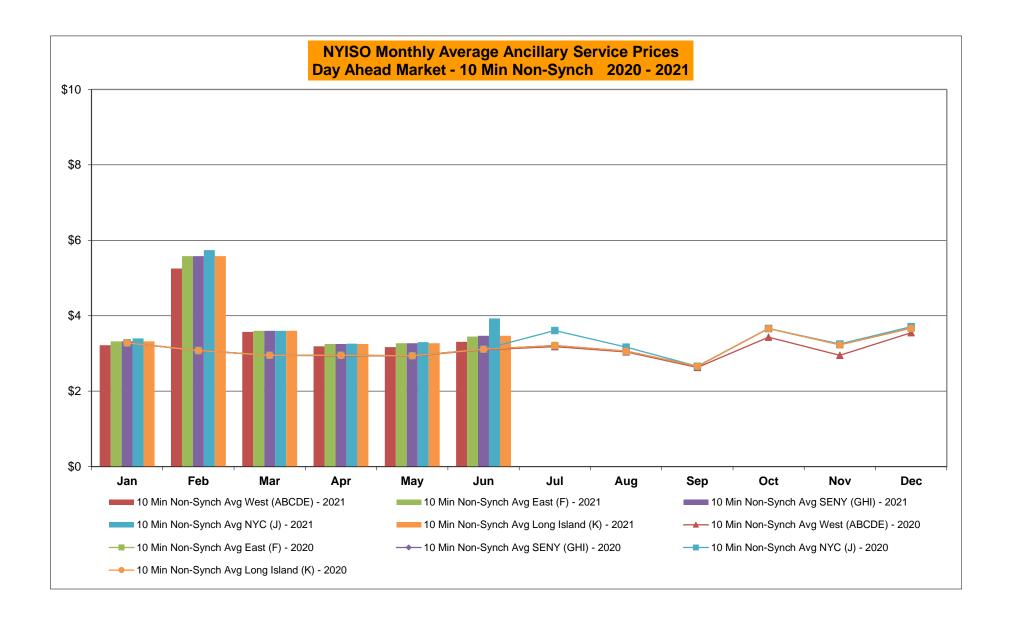
Oct-21

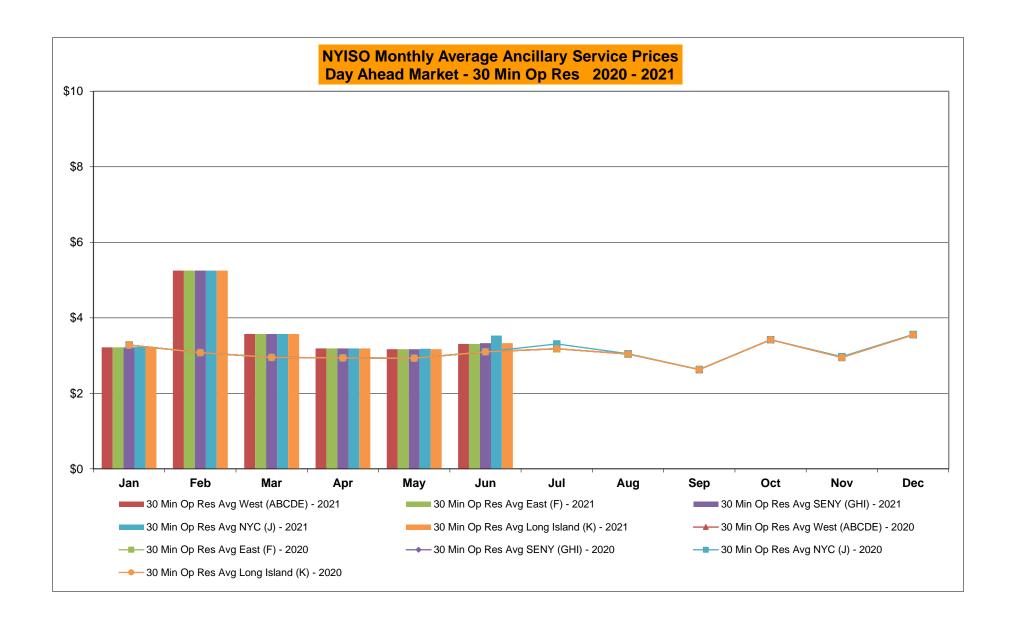
Nov-21

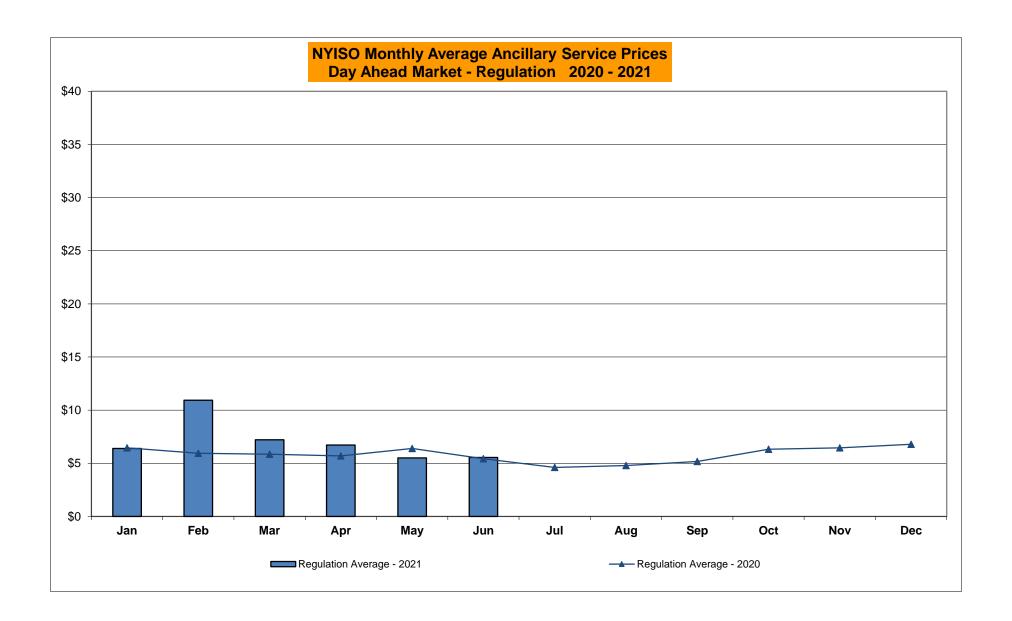
Dec-21

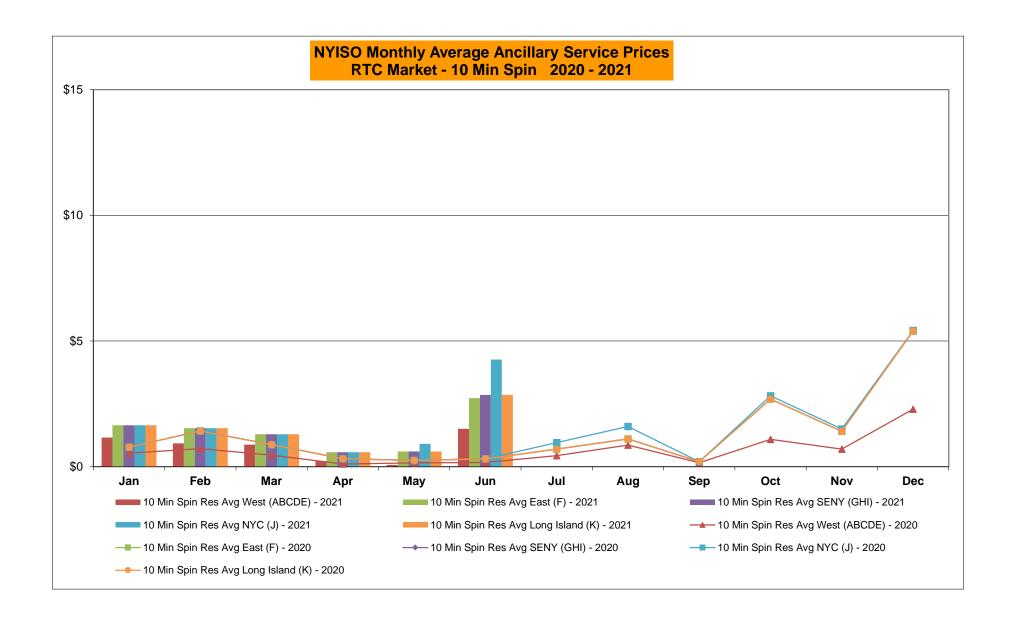


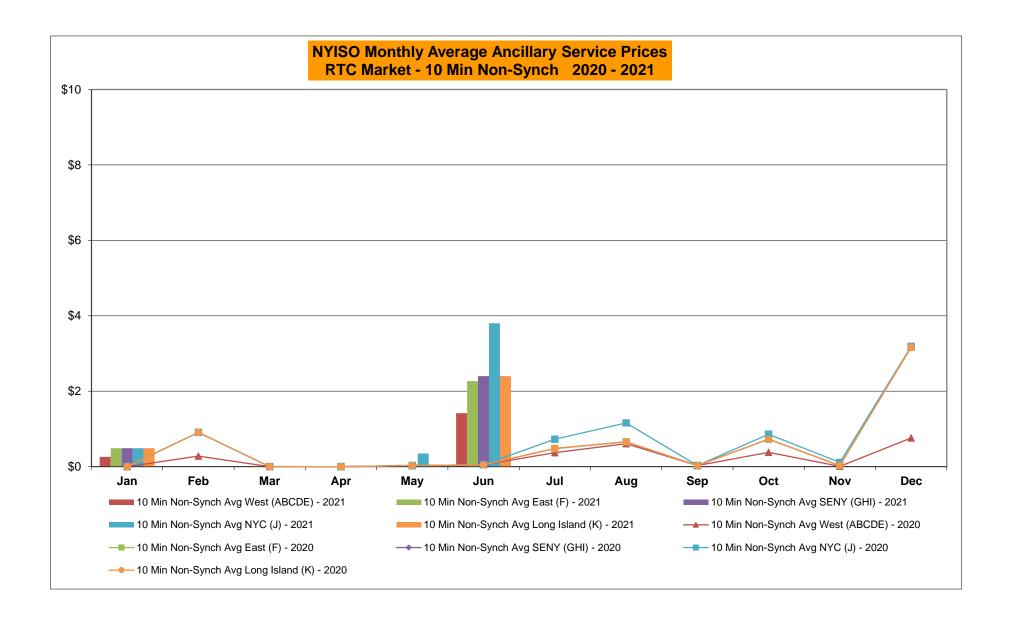


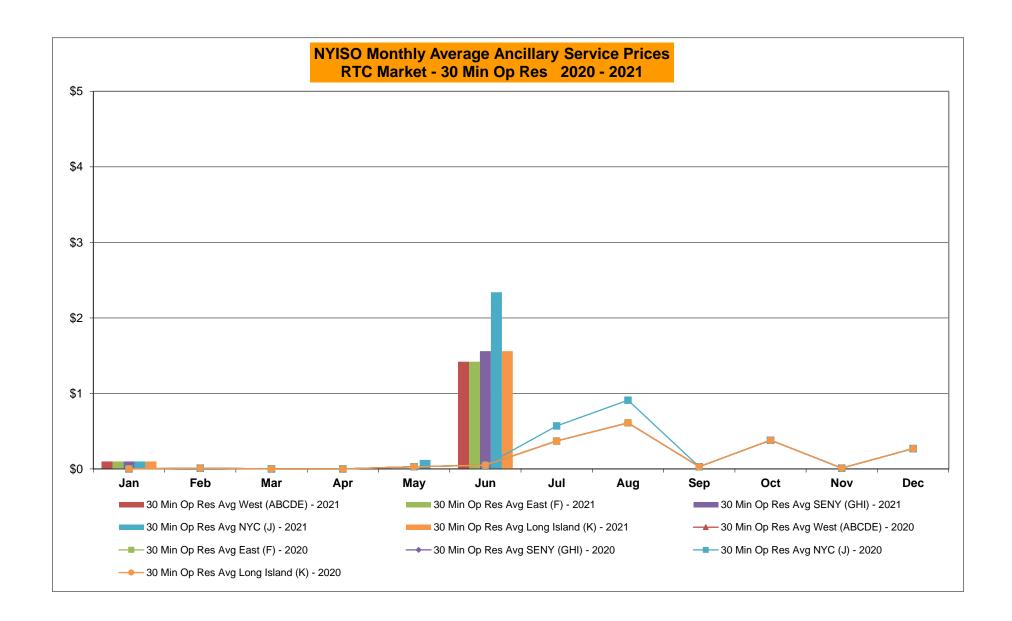


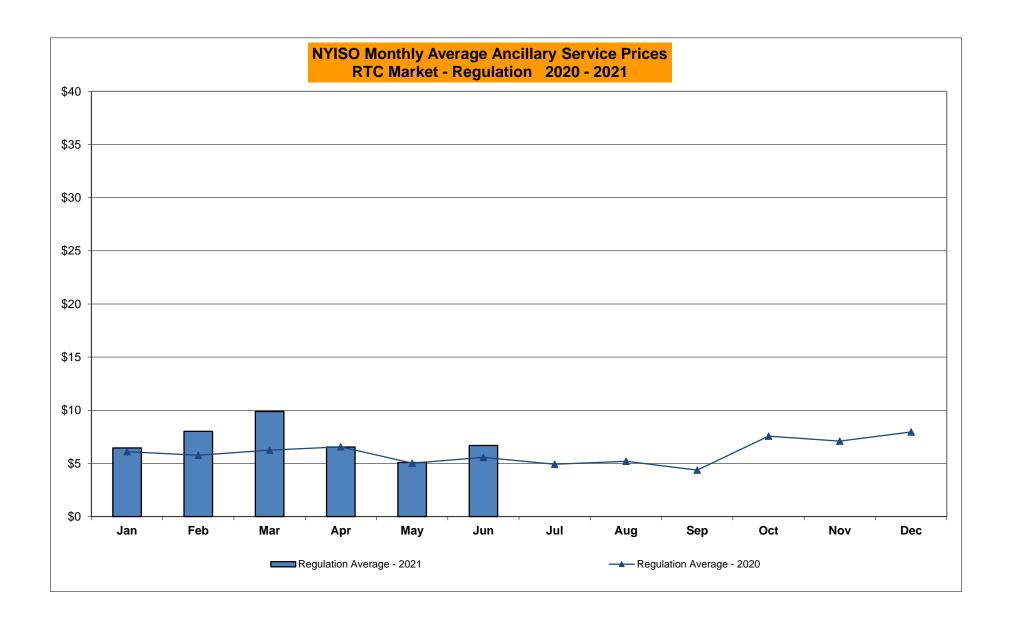


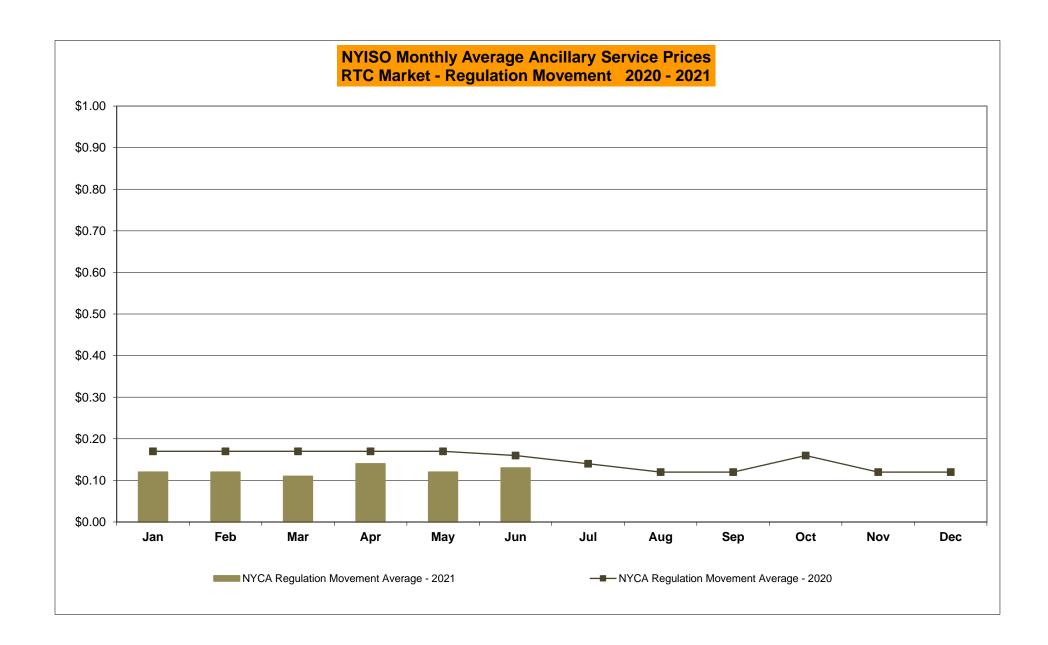


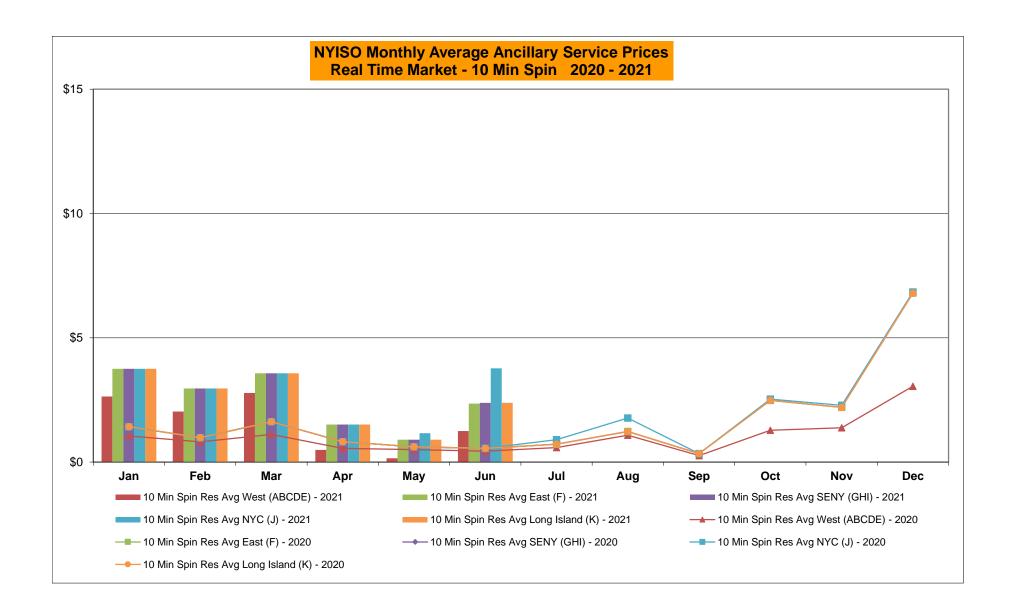


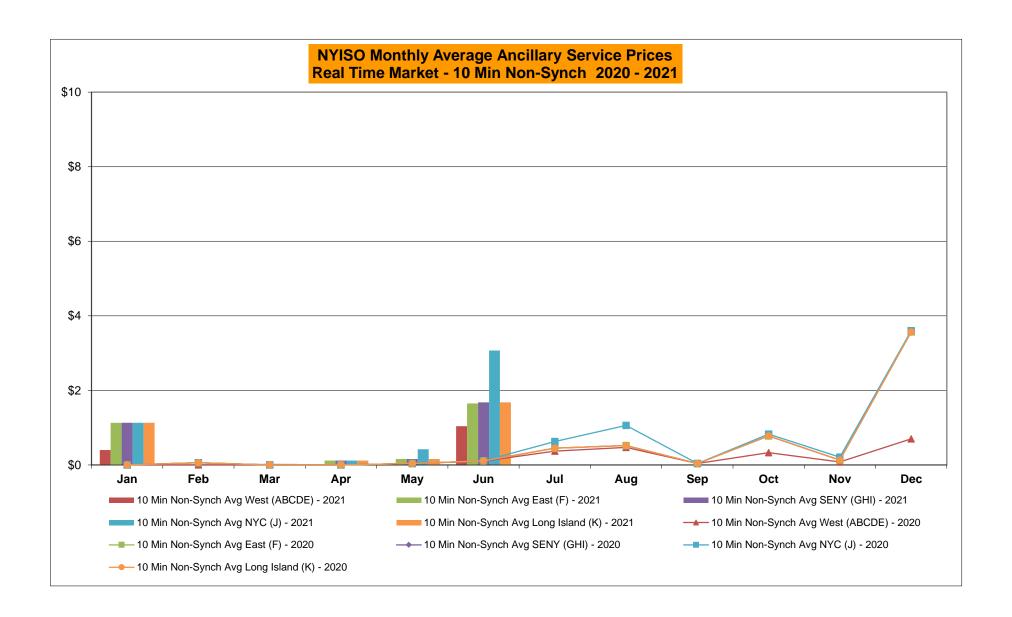


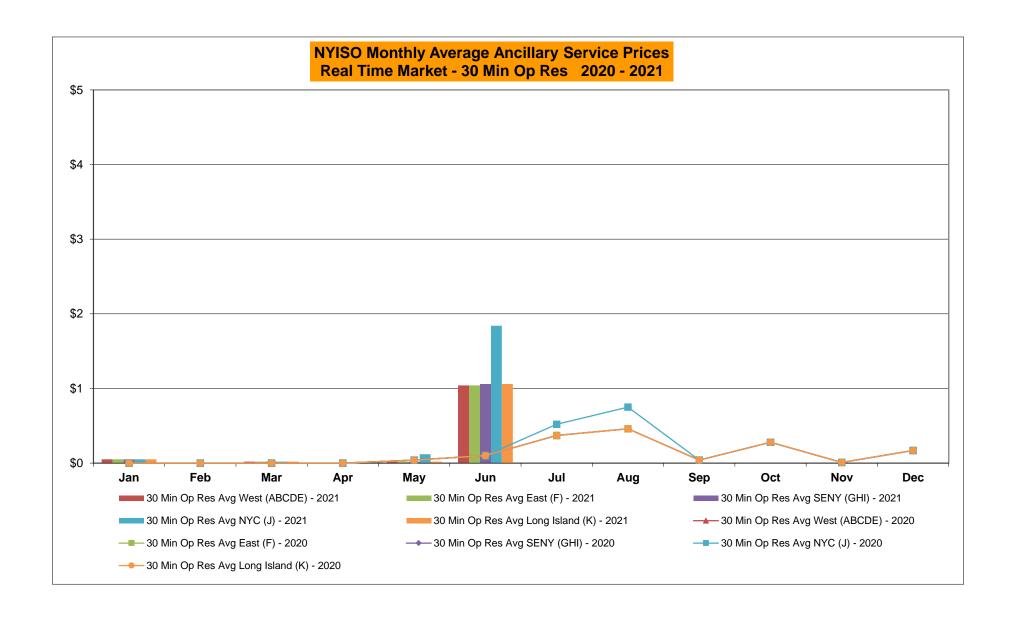


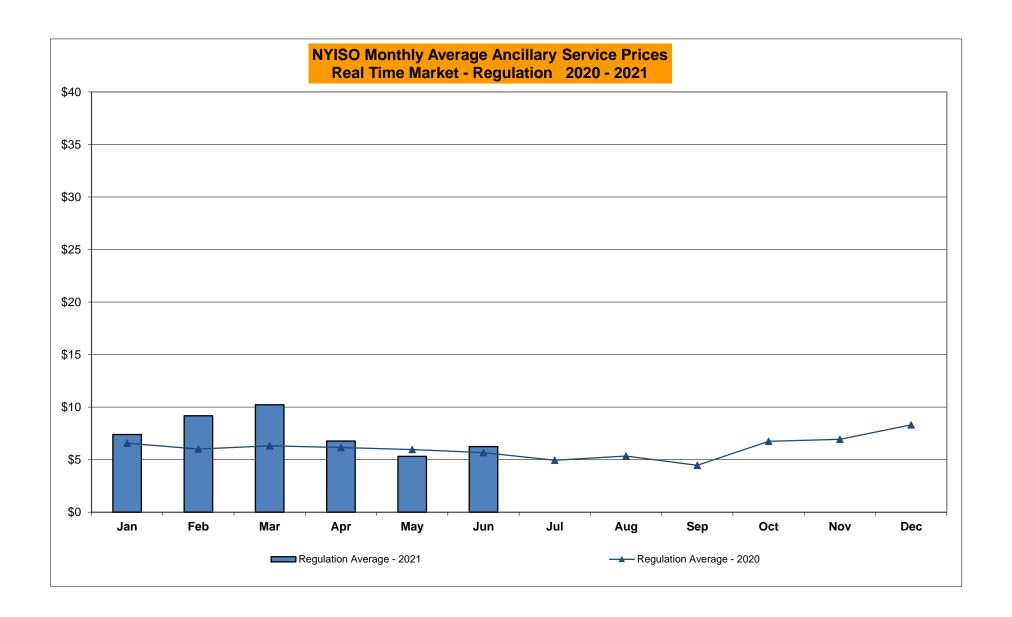


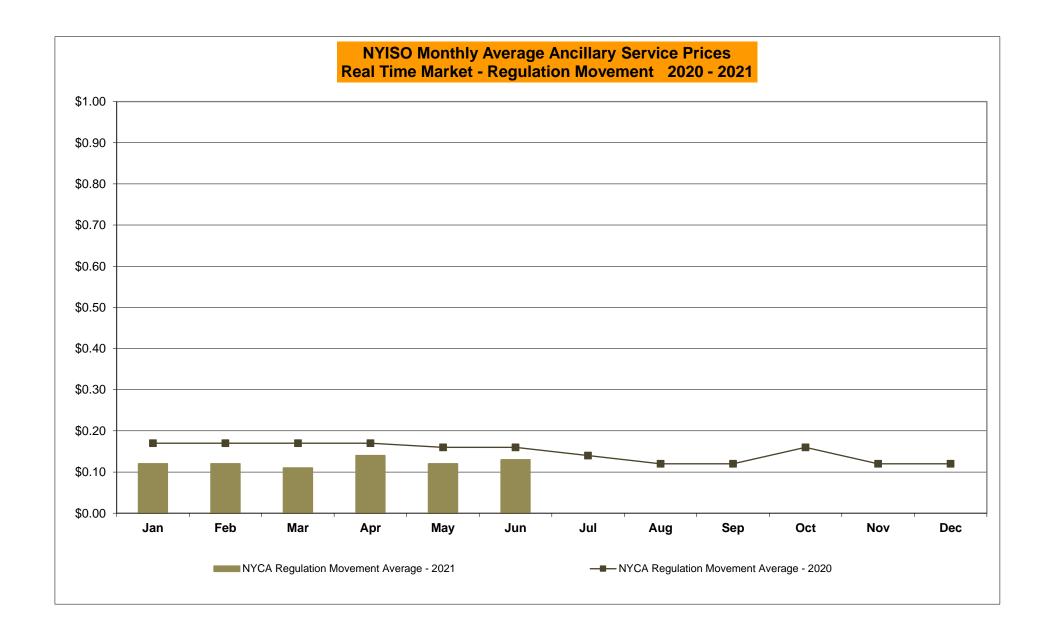












### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - DAM

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	4.46	3.80	3.78	3.91						
10 Min Spin NYC (J)	4.68	8.01	4.46	3.81	3.80	4.38						
10 Min Spin SENY (GHI)	4.61	7.85	4.46	3.80	3.78	3.91						
10 Min Spin East (F)	4.61	7.85	4.46	3.80	3.78	3.89						
10 Min Spin Last (1)	4.01	6.68	4.07	3.56	3.43	3.64						
10 Min Non Synch Long Island (K)	3.32	5.58	3.60	3.25	3.27	3.47						
10 Min Non Synch NYC (J)	3.40	5.74	3.60	3.26	3.30	3.93						
10 Min Non Synch SENY (GHI)	3.32	5.58	3.60	3.25	3.27	3.47						
10 Min Non Synch East (F)	3.32	5.58	3.60	3.25	3.27	3.45						
10 Min Non Synch West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31						
30 Min Long Island (K)	3.22	5.25	3.57	3.19	3.17	3.33						
30 Min NYC (J)	3.23	5.25	3.57	3.19	3.18	3.53						
30 Min SENY (GHI)	3.22	5.25	3.57	3.19	3.17	3.33						
30 Min East (F)	3.22	5.25	3.57	3.19	3.17	3.31						
30 Min West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31						
Regulation	6.40	10.93	7.21	6.72	5.50	5.55						
<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>	November	<u>December</u>
Day Ahead Market	<u>January</u>			-		<u>June</u>		_				
<u>Day Ahead Market</u> 10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	4.96	4.46	5.27
Day Ahead Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J)	<del></del>			-				_				
<u>Day Ahead Market</u> 10 Min Spin Long Island (K)	3.60	3.23 3.23 3.23	3.55 3.55 3.55	3.27 3.27 3.27	3.48 3.48 3.48	3.59 3.64 3.59	3.59	3.63 3.74 3.63	3.63 3.63 3.63	4.96	4.46 4.48 4.46	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)	3.60 3.60 3.60 3.60	3.23 3.23 3.23 3.23	3.55 3.55 3.55 3.55	3.27 3.27 3.27 3.27	3.48 3.48 3.48 3.48	3.59 3.64 3.59 3.59	3.59 4.00 3.59 3.59	3.63 3.74 3.63 3.63	3.63 3.63 3.63 3.63	4.96 4.96 4.96 4.96	4.46 4.48 4.46 4.46	5.27 5.30 5.27 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)	3.60 3.60 3.60 3.60 3.57	3.23 3.23 3.23 3.23 3.22	3.55 3.55 3.55 3.55 3.43	3.27 3.27 3.27 3.27 3.25	3.48 3.48 3.48 3.48 3.39	3.59 3.64 3.59 3.59 3.51	3.59 4.00 3.59 3.59 3.55	3.63 3.74 3.63 3.63 3.59	3.63 3.63 3.63 3.63 3.58	4.96 4.96 4.96 4.96 4.21	4.46 4.48 4.46 4.46 3.81	5.27 5.30 5.27 5.27 4.25
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 3.57 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	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 4.96 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	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 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	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 3.43 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 3.59 3.51 3.11 3.17 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 2.94 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 3.57 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 4.96 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 3.55 3.55 3.55 3.56 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 4.96 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 3.55 3.55 3.55 3.56 3.55

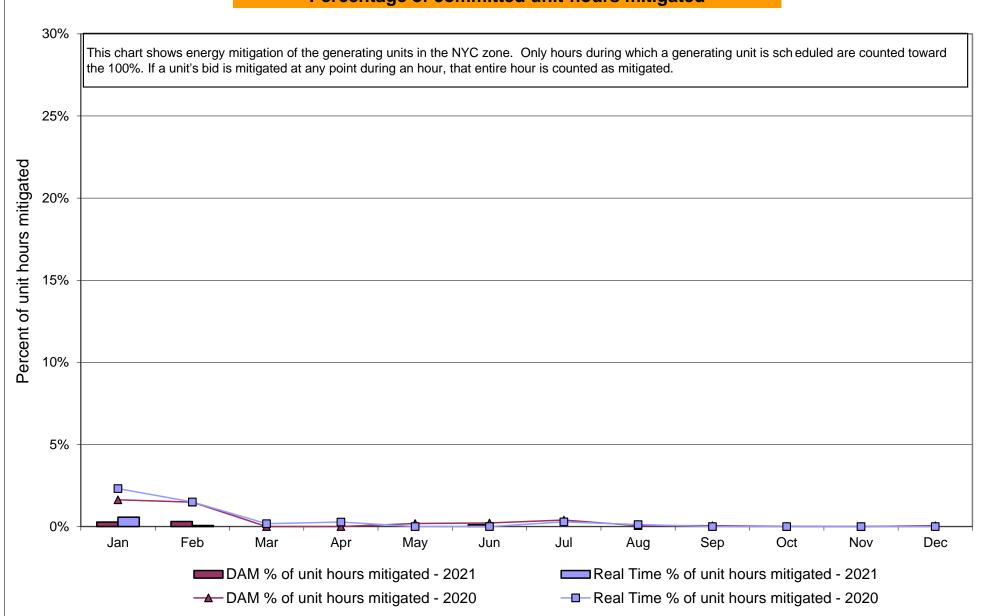
## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RTC

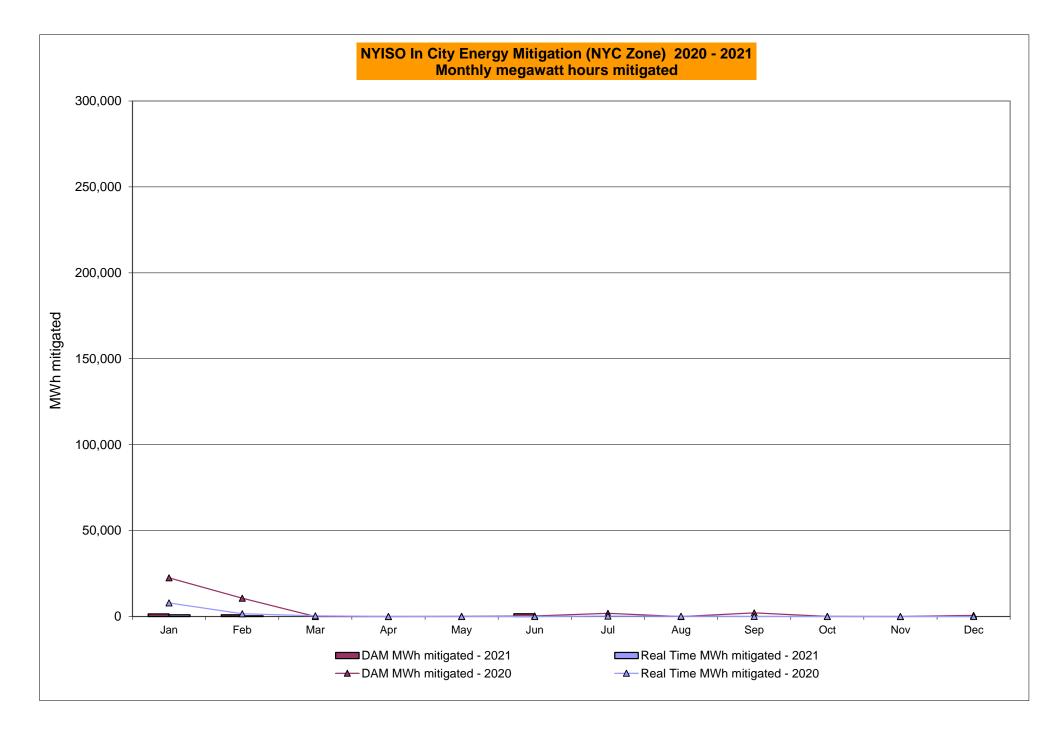
2021	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
RTC Market	4.05	4.50	4.00	0.50	0.04	0.00						
10 Min Spin Long Island (K)	1.65	1.53	1.29	0.58	0.61	2.86						
10 Min Spin NYC (J)	1.65	1.53	1.29	0.58	0.91	4.26						
10 Min Spin SENY (GHI)	1.65	1.53	1.29	0.58	0.61	2.86						
10 Min Spin East (F)	1.65	1.53	1.29	0.58	0.61	2.73						
10 Min Spin West (ABCDE)	1.16	0.93	0.88	0.22	0.07	1.51						
10 Min Non Synch Long Island (K)	0.49	0.00	0.02	0.00	0.05	2.40						
10 Min Non Synch NYC (J)	0.49	0.00	0.02	0.00	0.35	3.80						
10 Min Non Synch SENY (GHI)	0.49	0.00	0.02	0.00	0.05	2.40						
10 Min Non Synch East (F)	0.49	0.00	0.02	0.00	0.05	2.27						
10 Min Non Synch West (ABCDE)	0.26	0.00	0.01	0.00	0.00	1.42						
30 Min Long Island (K)	0.10	0.00	0.01	0.00	0.00	1.56						
30 Min NYC (J)	0.10	0.00	0.01	0.00	0.12	2.34						
30 Min SENY (GHI)	0.10	0.00	0.01	0.00	0.00	1.56						
30 Min East (F)	0.10	0.00	0.01	0.00	0.00	1.42						
30 Min West (ABCDE)	0.10	0.00	0.01	0.00	0.00	1.42						
Regulation	6.46	8.02	9.88	6.54	5.08	6.69						
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13						
<u>2020</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	<u>November</u>	<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
TC 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	0.25 0.26 0.25 0.25	0.31 0.31 0.31 0.31	0.70 0.96	1.11 1.60 1.11 1.11	0.20 0.20	2.69 2.82 2.69 2.69	1.41 1.50	5.40 5.42 5.40 5.40
TC 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 0.00	1.42 1.46 1.42 1.42 0.72 0.91 0.95	0.88 0.88 0.88 0.88 0.46 0.00	0.32 0.32 0.32 0.32 0.11 0.00 0.00	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 0.91	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	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
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	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	0.31 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 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	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 0.01	5.40 5.42 5.40 5.40 2.29 3.17 3.19 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 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	0.32 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 0.31 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	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 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	0.32 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 0.37 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 Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 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	0.32 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 0.31 0.17 0.05 0.06 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
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 Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F)	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 0.31 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 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

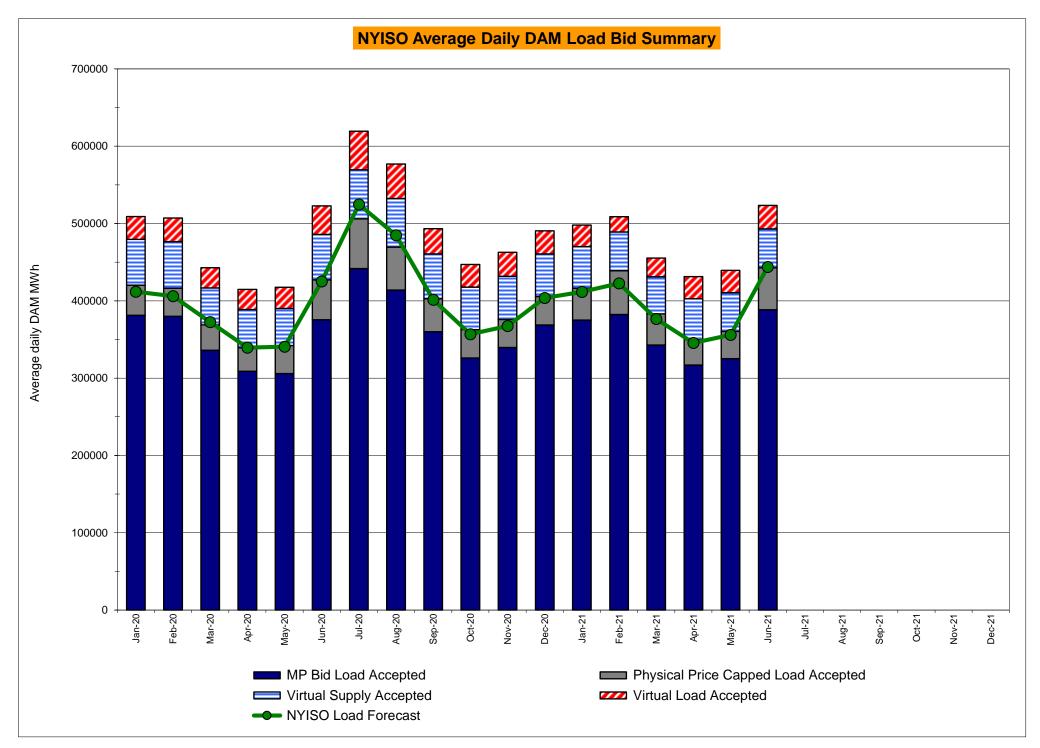
## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

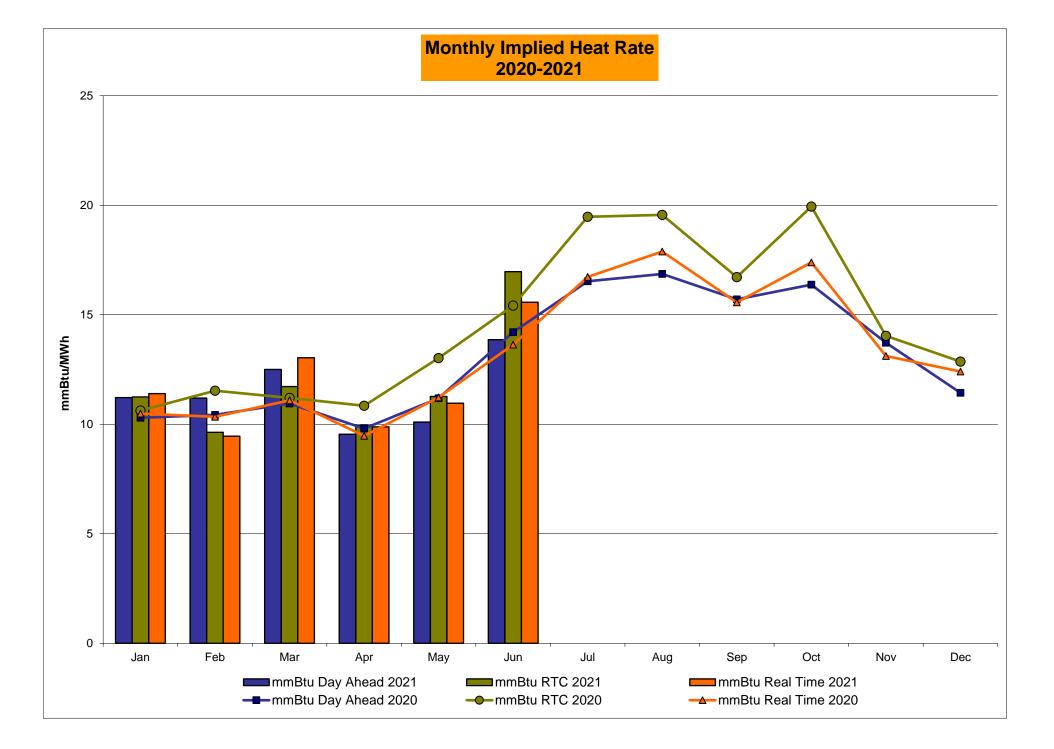
2021	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Real Time Market												
10 Min Spin Long Island (K)	3.75	2.96	3.57	1.51	0.90	2.38						
10 Min Spin NYC (J)	3.75	2.96	3.57	1.51	1.16	3.77						
10 Min Spin SENY (GHI)	3.75	2.96	3.57	1.51	0.90	2.38						
10 Min Spin East (F)	3.75	2.96	3.57	1.51	0.90	2.35						
10 Min Spin West (ABCDE)	2.64	2.03	2.78	0.49	0.15	1.25						
10 Min Non Synch Long Island (K)	1.13	0.02	0.03	0.12	0.16	1.68						
10 Min Non Synch NYC (J)	1.13	0.02	0.03	0.12	0.42	3.07						
10 Min Non Synch SENY (GHI)	1.13	0.02	0.03	0.12	0.16	1.68						
10 Min Non Synch East (F)	1.13	0.02	0.03	0.12	0.16	1.65						
10 Min Non Synch West (ABCDE)	0.40	0.00	0.02	0.00	0.02	1.04						
30 Min Long Island (K)	0.05	0.00	0.02	0.00	0.02	1.06						
30 Min NYC (J)	0.05	0.00	0.02	0.00	0.12	1.84						
30 Min SENY (GHI)	0.05	0.00	0.02	0.00	0.02	1.06						
30 Min East (F)	0.05	0.00	0.02	0.00	0.02	1.04						
30 Min West (ABCDE)	0.05	0.00	0.02	0.00	0.02	1.04						
Regulation	7.39	9.17	10.23	6.78	5.31	6.24						
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13						
<u>2020</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
2020 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>	<u>September</u>	October	<u>November</u>	<u>December</u>
	<u>January</u> 1.42	<u>February</u> 0.98	<u>March</u> 1.62	<u>April</u> 0.82	<u>May</u> 0.61	<u>June</u> 0.55	<u>July</u> 0.72	1.23	September 0.34	2.48	November 2.20	December 6.80
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 0.26 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 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 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 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 0.26 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 0.78	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 0.70
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 1.42 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 0.01 0.08	6.80 6.84 6.80 6.80 3.05 3.57 3.60 3.57 0.70
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 1.05 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 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	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 0.26 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	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
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)	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	0.72 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 0.26 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	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 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

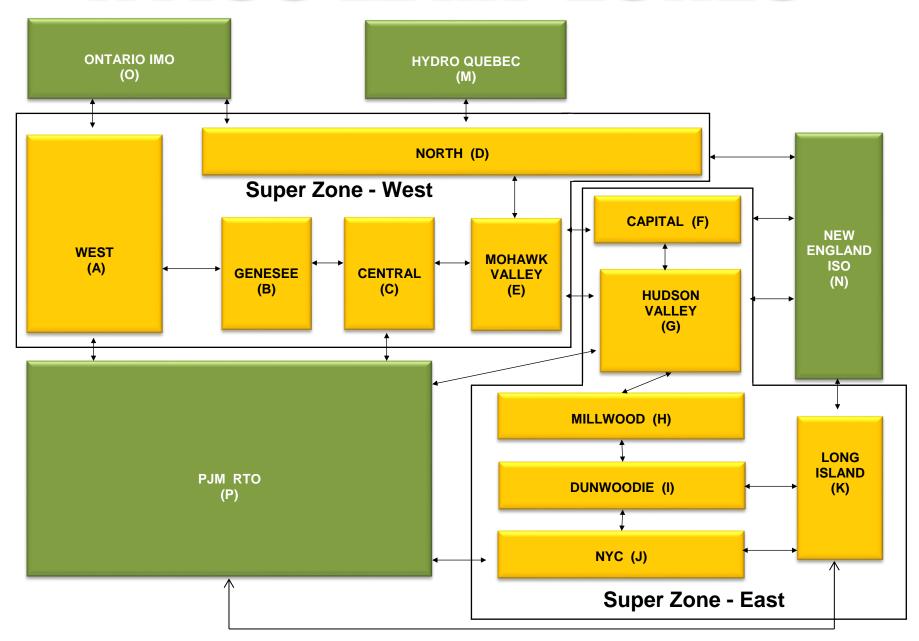






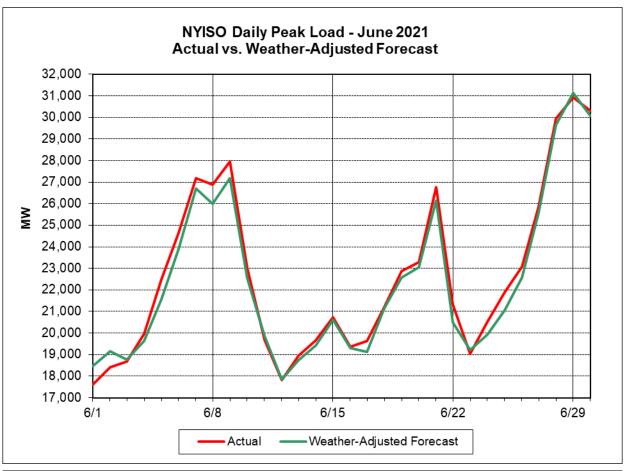


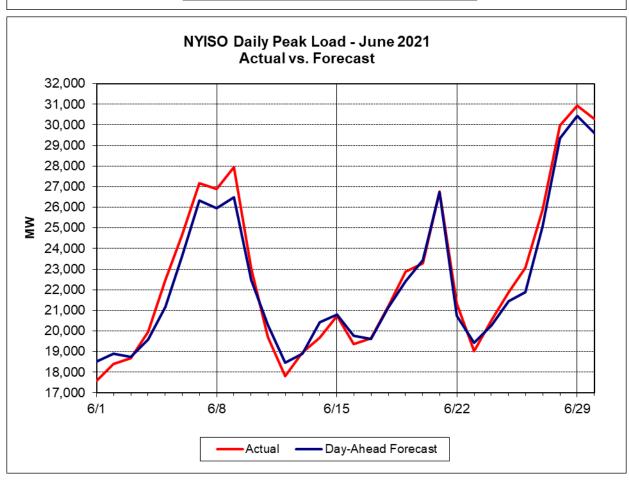
# NYISO LBMP ZONES

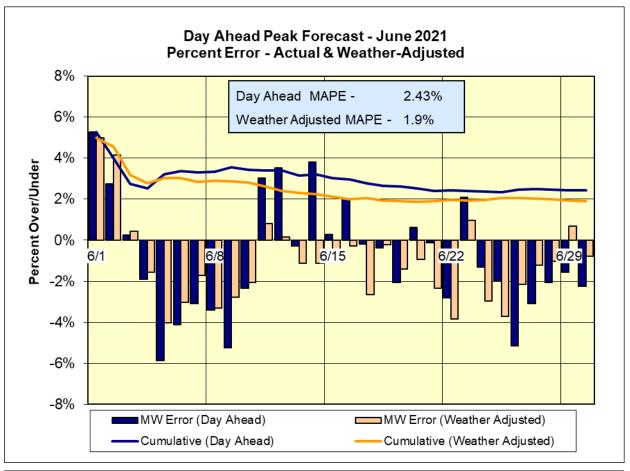


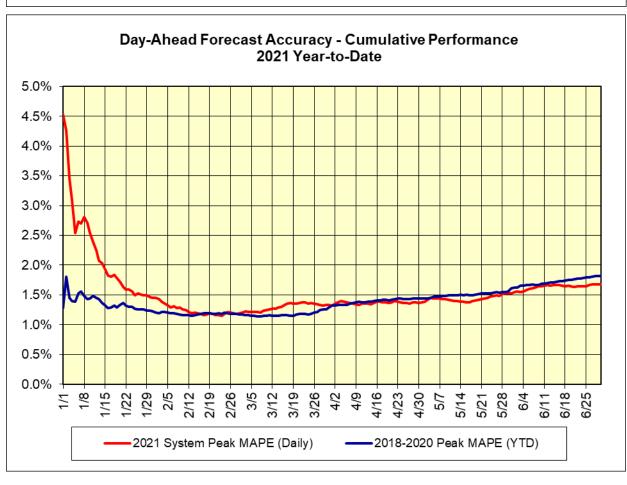
#### **Billing Codes for Chart C**

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









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

Filing Date	Filing Summary	Docket	Order Summary	Order Date
04/15/2021	NYISO-National Grid joint Section 205 joint filing of a Transmission Project Interconnection Agreement among the NYISO, National Grid, and LS Power Grid New York Corporation I	ER21-1687-000	Letter order accepted the submission, effective 4/2/21 as requested	06/04/2021
04/23/2021	NYISO filing of an implementation agreement with Helix Ravenswood regarding recovery of its costs to generate electric energy using fuel oil in lieu of natural gas in furtherance of New York State Reliability Council Local Reliability Rule G.2	ER21-1754-00	Letter order accepted the submission, effective 5/15/21 as requested	06/14/2021
04/19/2021	NYISO-Transco, filing of an Engineering, Procurement & Construction Agreement among NY Transco, Holcim and NYISO	ER21-1710-000	Letter order accepted the submission, effective 4/2/21 as requested	06/15/2021
05/25/2021	NYISO compliance notice of June 8, 2021 as effective date for Services Tariff revisions to enhance operational control of solar resources	ER21-892-001	Letter order accepted NYISO filing, effective 6/8/21 as requested	06/17/2021
04/28/2021	NYISO-NMPC joint Section 205 filing of a Small Generator Interconnection Agreement among NYISO, National Grid, and SunEast Skyline Solar	ER21-1784-000	Letter order accepted the submission, effective 4/15/21 as requested	06/22/2021
	NYISO section 205 filing and deficiency response to tariff revisions process for procuring Operating Reserves and to establish a process for procuring Supplemental Reserves	ER21-1018-000, 001	Order accepted the NYISO's proposed Operating Reserve Demand Curve enhancements and rejected the NYISO's supplemental reserves proposal, and directed submittal of a further compliance filing	06/23/2021
06/07/2021	ISO/RTO Council filing of post technical conference comments on coordination and information sharing	AD20-6-000, AD21-6-000		
06/07/2021	NYISO filing of post-technical conference comments on principles and best practices for credit risk management in organized wholesale electricity markets	AD20-6-000, AD21-6-000		
06/07/2021	NYISO compliance notice of a delayed effective date establishing a June 10, 2021 effective date for tariff revisions to implement Southeastern New York Reserve enhancements	ER21-625-002		
06/08/2021	NYISO compliance notice of a further delayed effective date establishing a June 17, 2021 effective date for tariff revisions to implement Southeastern New York Reserve enhancements	ER21-625-003		

NYISO section 205 filing of tariff revisions reflecting the results of its post-ICAP DCR review of exempt renewable technologies and a revised definition of Exempt Renewable Technologies as defined in the Market Services Tariff		
NYISO-National Grid joint filing of a Large Generator Interconnection Agreement entered into by the NYISO, National Grid-as the connecting Transmission Owner-and Ball Hill Wind	ER21-2106-000	
NYISO filing of an executed Operating Agreement between the NYISO and LS Power Grid New York Corporation I	ER21-2104-000	
NYISO filing of an executed Operating Agreement between the NYISO and NextEra Energy Transmission New York	ER21-2105-000	
NYISO-NYPA joint section 205 filing of an executed Engineering, Procurement, and Construction Agreement among the NYISO, NYPA, and New York Transco for Affected System Upgrade Facilities (Dolson Ave Substation) for Segment B of the AC Transmission Needs	ER21-2197-000	
NYISO filing of a notice of effective date and compliance filing of tariff language relating to Operating Reserve Demand Curves	ER21-1018-002	