

Monthly Report

A Report by the New York Independent System Operator

June 2020



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June 2020 Report

Operations & Reliability Department New York Independent System Operator



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June 2020 Operations Performance Highlights

- Peak load of 26,980 MW occurred on 06/22/2020 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 6 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- Warmer than normal temperatures offset the COVID-19 load impacts in June
- 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.

		Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.13	\$2.52
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.17)	(\$0.11)
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.21	\$0.55
Total NY Savings	\$0.17	\$2.96
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.26	\$0.77
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.03	\$0.03
Total Regional Savings	\$0.29	\$0.80

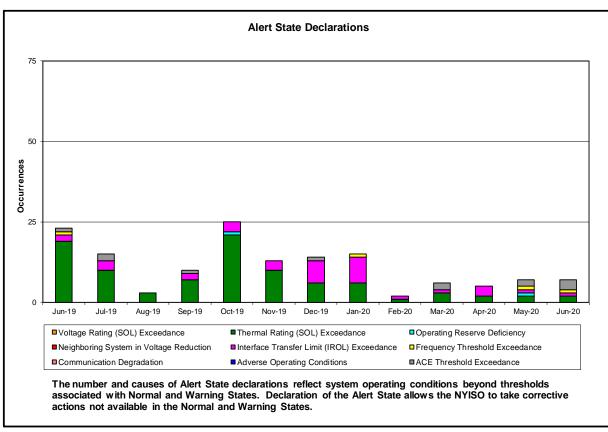
- Statewide uplift cost monthly average was (\$0.29)/MWh
- The following table identifies the Monthly ICAP spot market prices and the price delta.

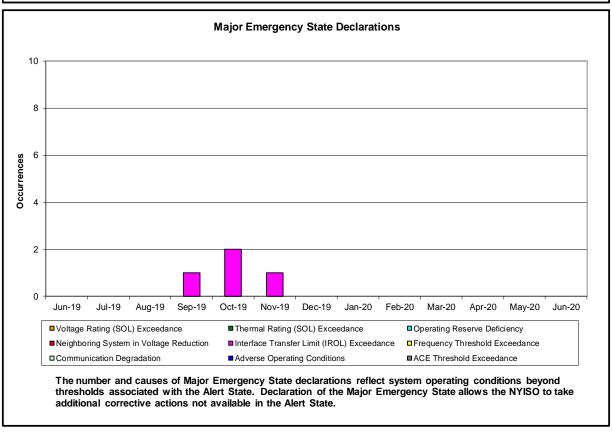
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
July 2020 Spot Price	\$2.69	\$2.69	\$19.03	\$5.32
June 2020 Spot Price	\$3.35	\$3.35	\$19.15	\$6.28
Delta	(\$0.66)	(\$0.66)	(\$0.12)	(\$0.96)

- Long Island Price decreased by \$0.96 due to a decrease in unoffered MWs.
- NYCA Price decreased by \$0.66 due to an increase in SCR UCAP available and an increase in net imports.
- Lower Hudson Valley Price decreased by \$0.66 due to an increase in SCR UCAP available and an increase in net imports.

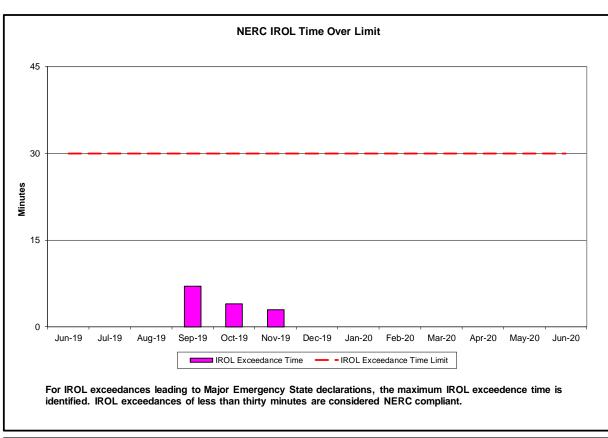


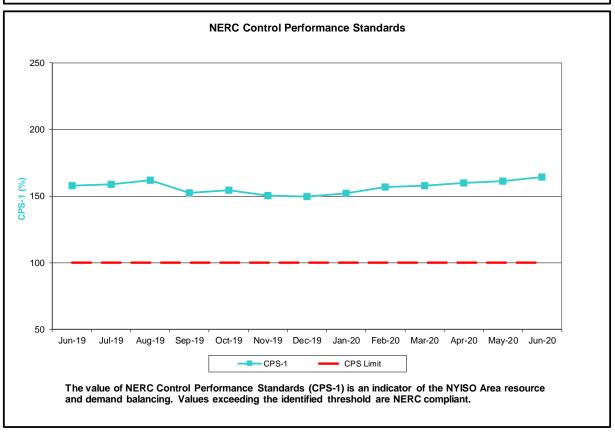
Reliability Performance Metrics



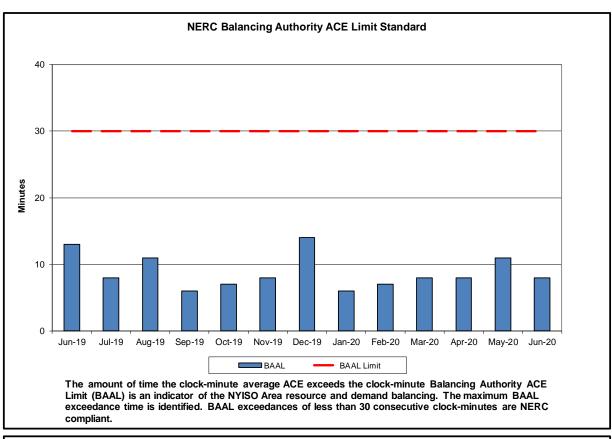


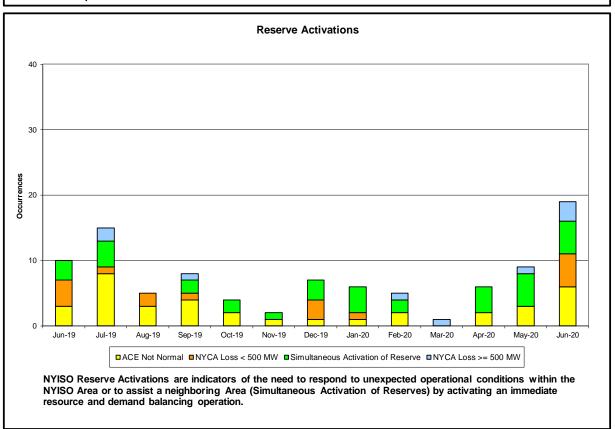




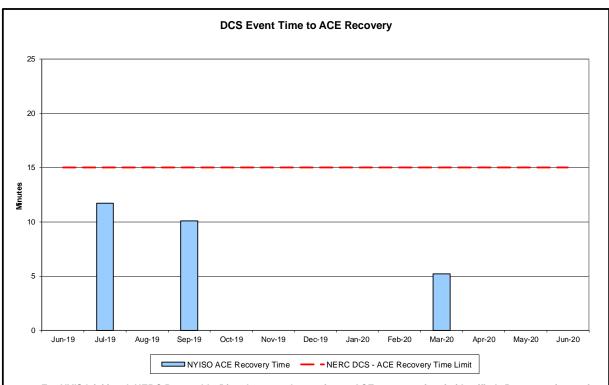




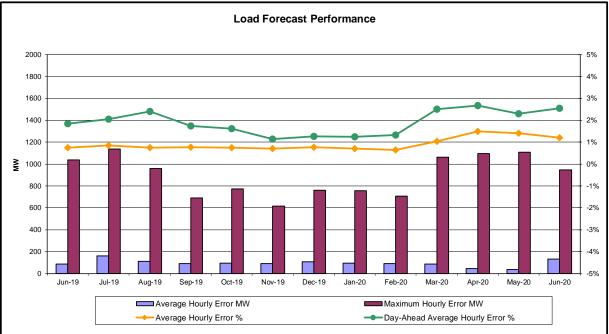








For NYISO initiated NERC Reportable Disturbances, the maximum ACE recovery time is identified. Recovery times of less than 15 minutes are considered NERC compliant.

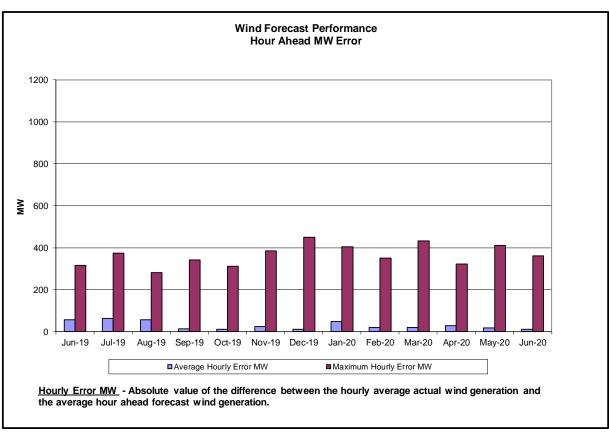


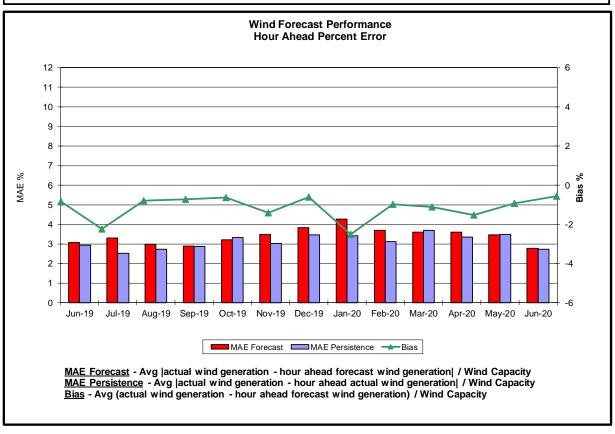
<u>Hourly Error MW</u> - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

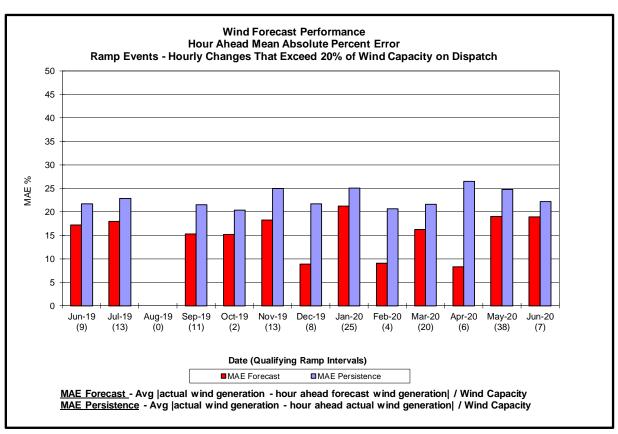
<u>Day-Ahead Average Hourly Error %</u> - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

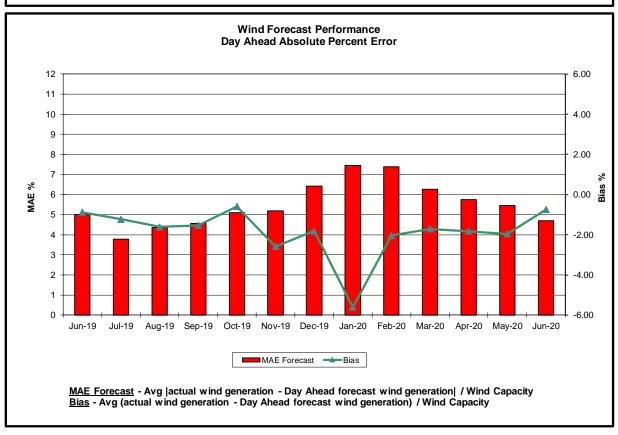




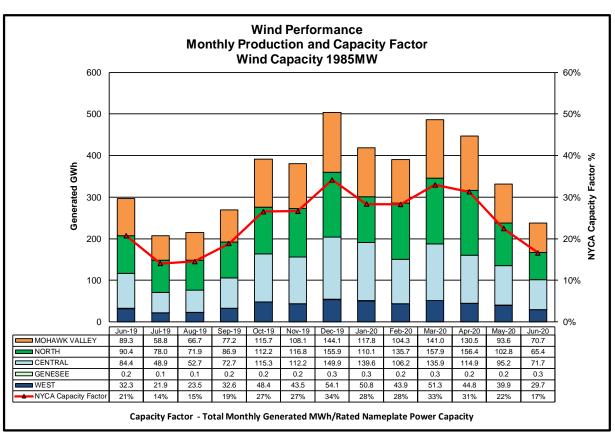


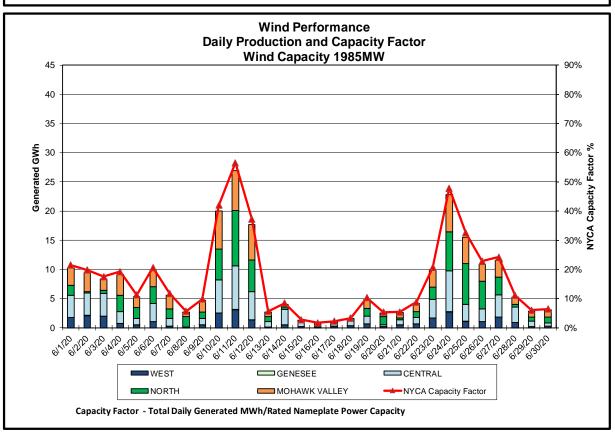




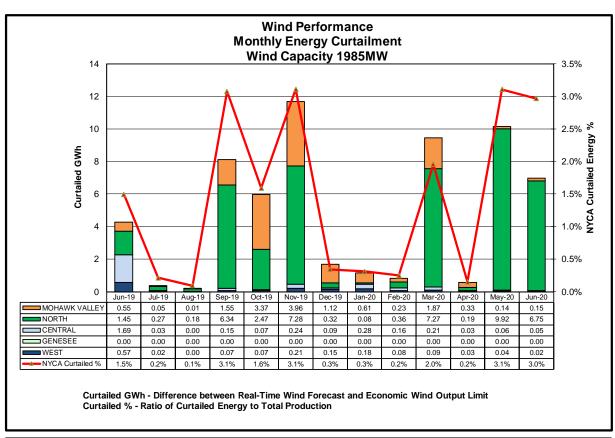


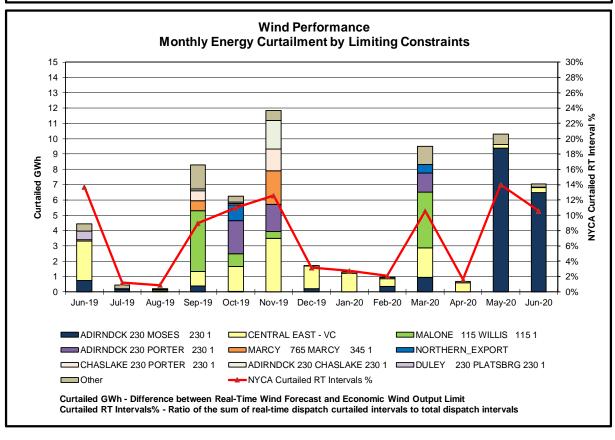




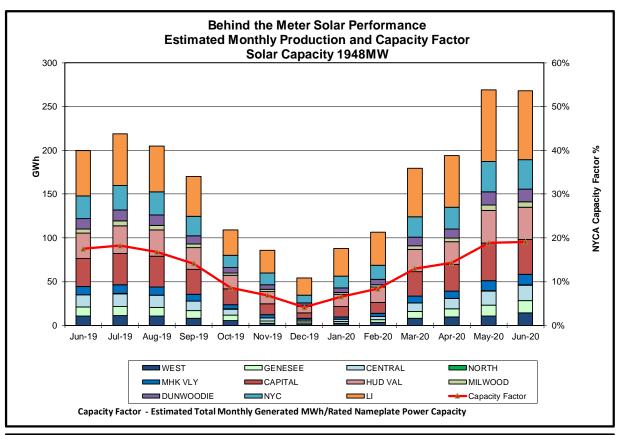


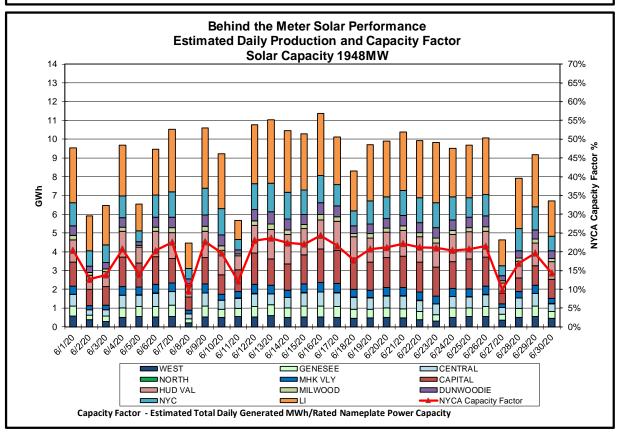




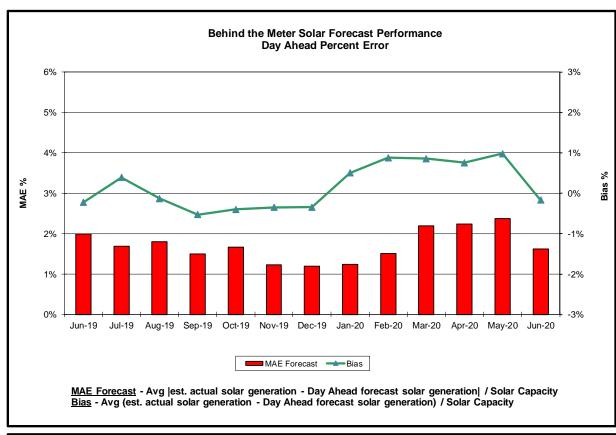


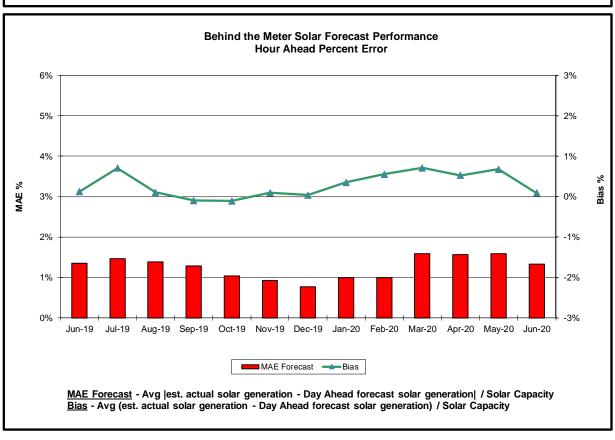




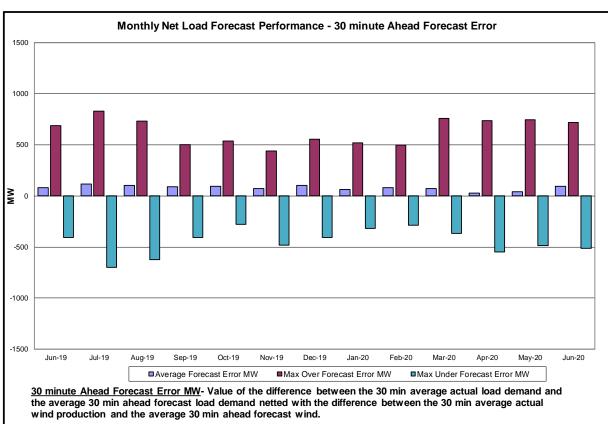


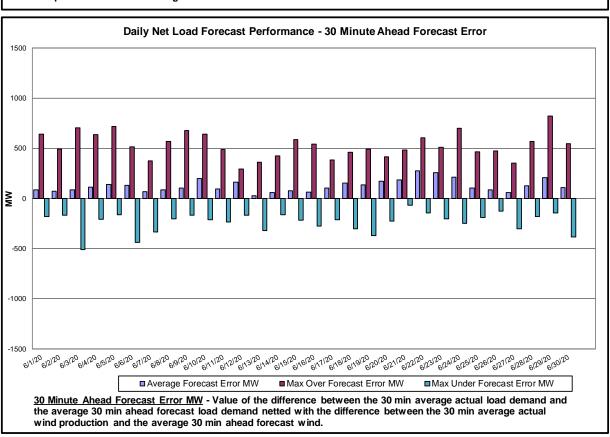




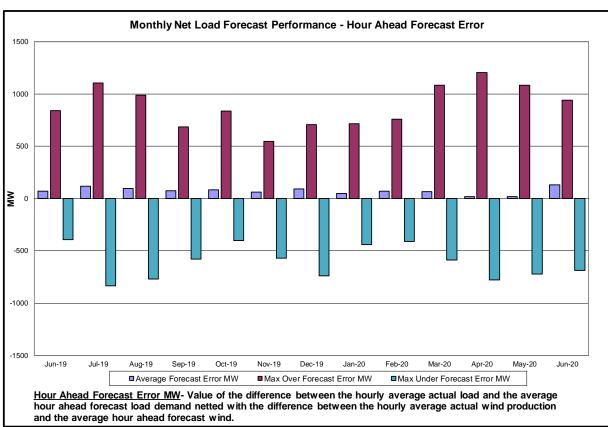


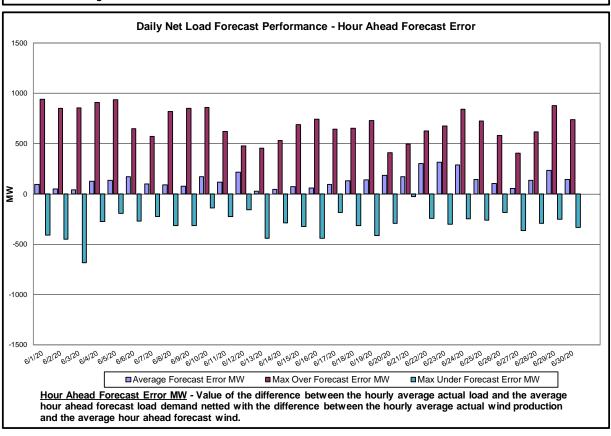




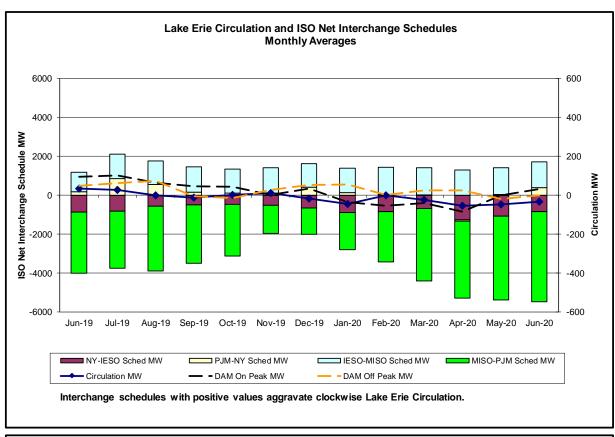


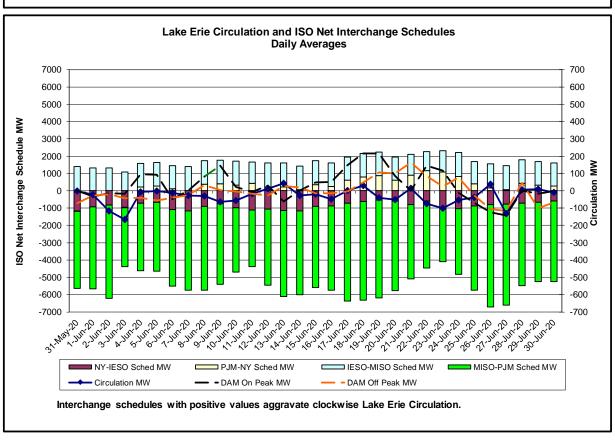






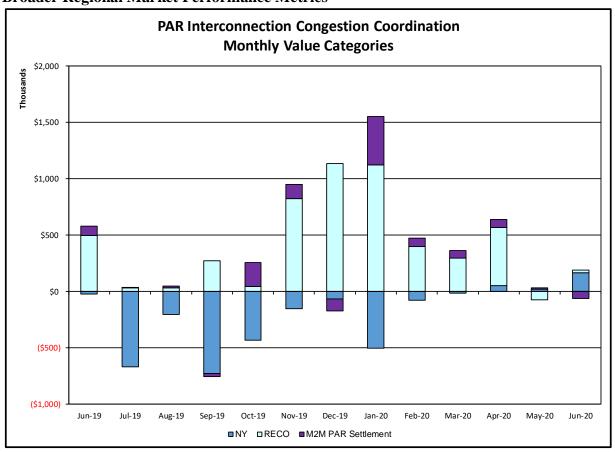


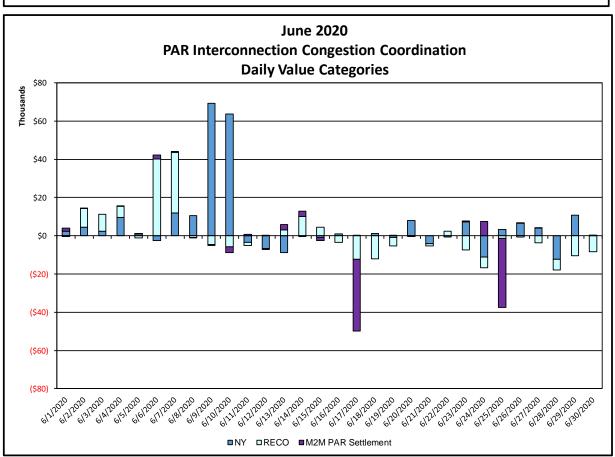






Broader Regional Market Performance Metrics







PAR Interconnection Congestion Coordination

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

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

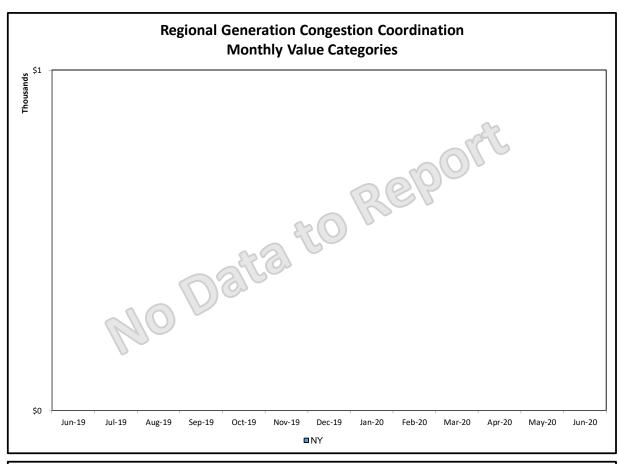
of RECO over Ramapo 5018.

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 $% \left\{ 1,2,...,N\right\}$

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









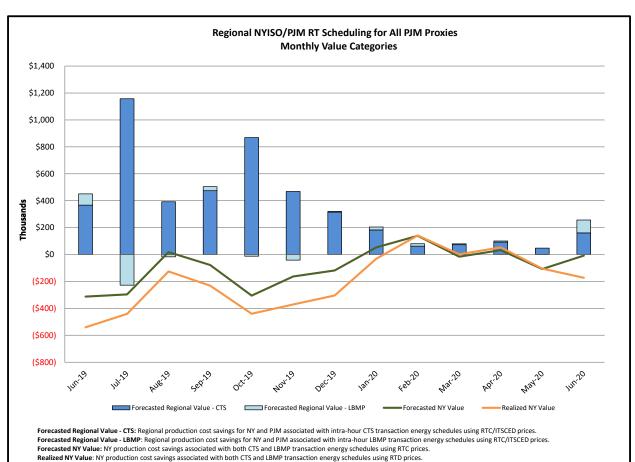
Regional Generation Congestion Coordination

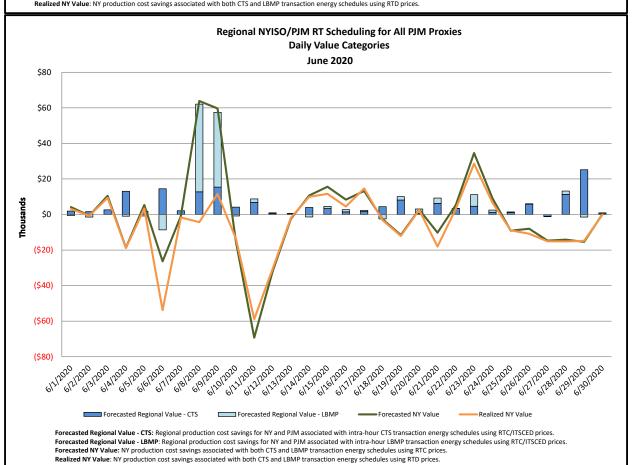
<u>Category</u> NY

Description

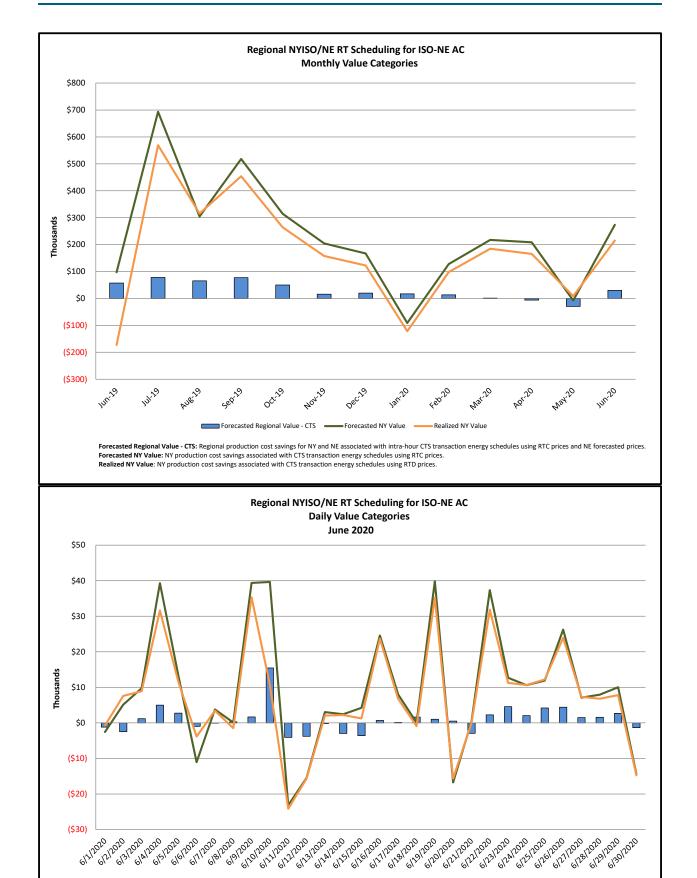
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization of PJM's generation resources to directly address Western or Central NY transmission congestion.











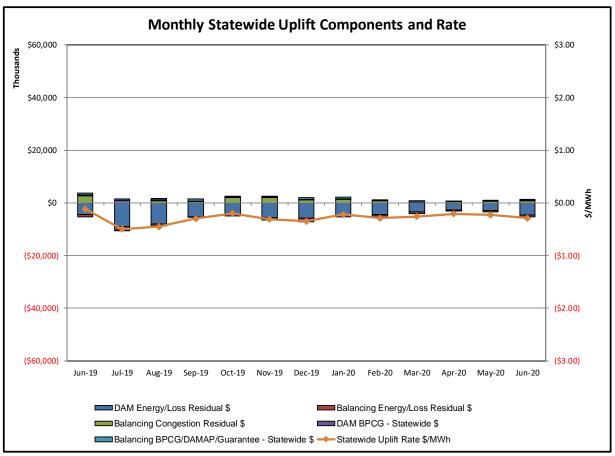
Forecasted Regional Value - CTS: Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices.

Forecasted Regional Value - CTS Forecasted NY Value

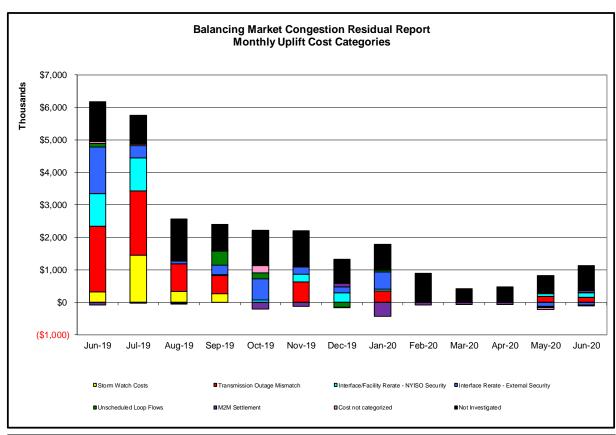
Forecasted NY Value: NY production cost savings associated with CTS transaction energy schedules using RTC prices. Realized NY Value: NY production cost savings associated with CTS transaction energy schedules using RTD prices.

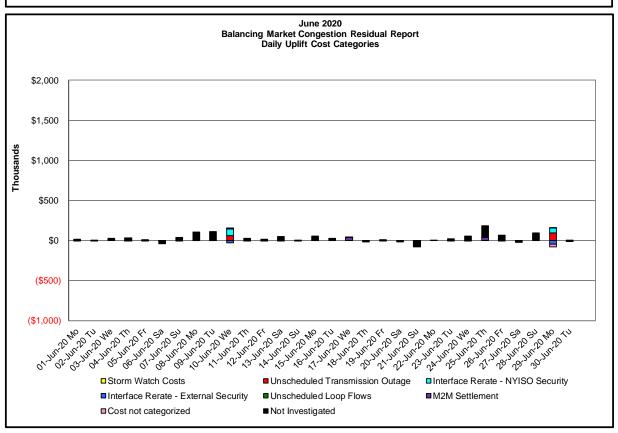


Market Performance Metrics







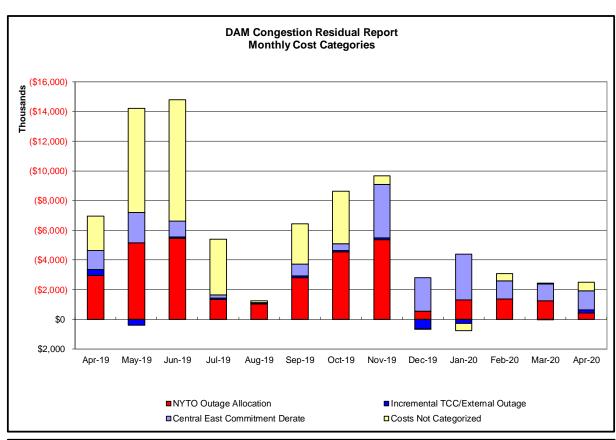


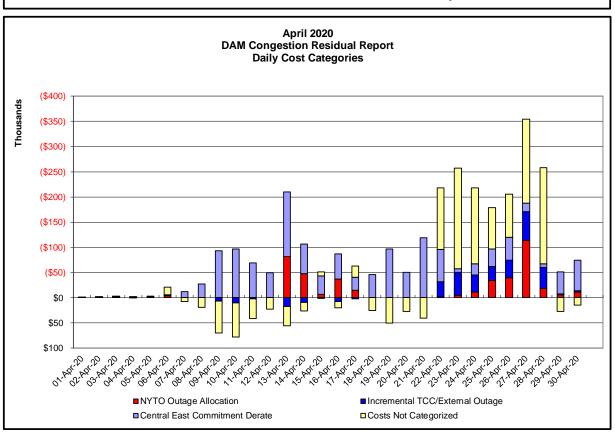


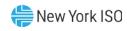
Day's inv	estigated in June:10	0,29			
Event			Description		
6/10/2020 9,11		9,11	Extended outage of Astoria Annex-East 13th Street 345kV (#Q35L)		
	6/10/2020 0		Derate of Niagara-Packard 230 kV (#61) for I/o TWR:PACKARD 62 & BP76		
6/10/2020 0		0	Derate of Adirondack-Moses 230 kV (#MA1) for I/o SIN:MSU1&7040& HQ GN&LD PROXY		
6/10/2020 0, 9,11		0, 9,11	Derate of Cricket Valley-Pleasant Valley 345 kV (#F83) for I/o Cricket Valley-Pleasant Valley 345 kV (#F84)		
	6/10/2020	9,11	Derate of MottHaven-Dunwoodie 345 kV (#71)		
	6/10/2020	11	Derate of East 179th Street-HellGate 138 kV (#15055)		
	6/10/2020	19	Derate of Scriba-Volney 345kV (#20) for I/o Scriba-Volney 345kV (#21)		
	6/10/2020	16	NE_AC DNI Ramp Limit		
	6/10/2020 17		PJM_AC DNI Ramp Limit		
6/10/2020 16		16	HQ_CHAT - NY Scheduling Limit		
6/10/2020 10		10	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West		
6/29/2020 13,14		13,14	Forced outage of Northport-Elwood 138kV (#681)		
	6/29/2020 15		NYCA DNI Ramp Limit		
	6/29/2020 9		Derate of Niagara-Packard 230 kV (#61) for TWR:PACKARD 62 & BP76		
6/29/2020 17		17	Derate of Vernon -Greenwood 138 kV (#31231)		
6/29/2020 9,13,14		9,13,14	Derate of Scriba-Volney 345 kV (#20) for I/o Scriba-Volney 345kV (#21)		
	6/29/2020	6/29/2020 15 PJM_AC DNI Ramp Limit			
6/29/2020 17		17	NE_AC DNI Ramp Limit		
	6/29/2020	17	NE_NNC1385 - NY Scheduling Limit		
	6/29/2020	9	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West		

<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	
Monthly Balancing Market Congestion Rep	ort Assumptions/No	<u>ites</u>	



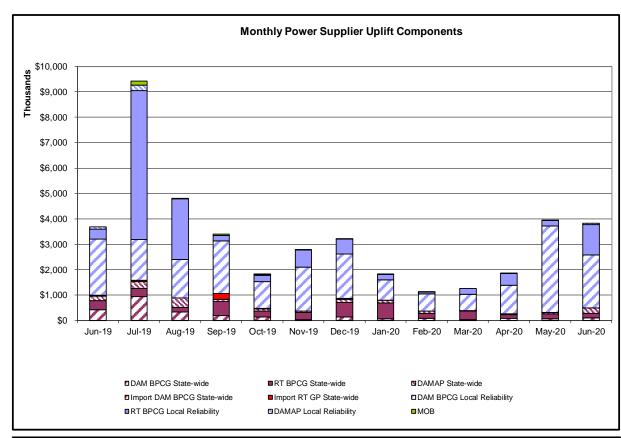


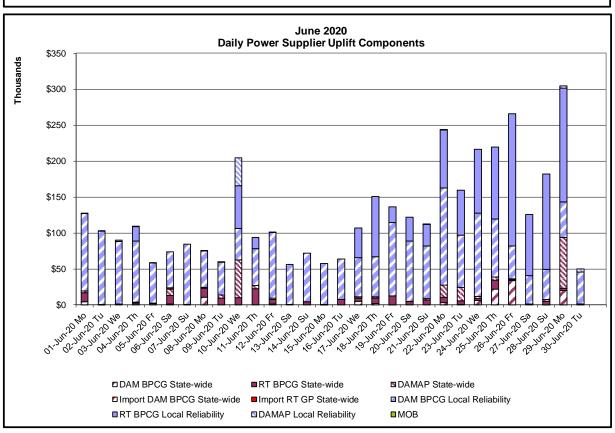




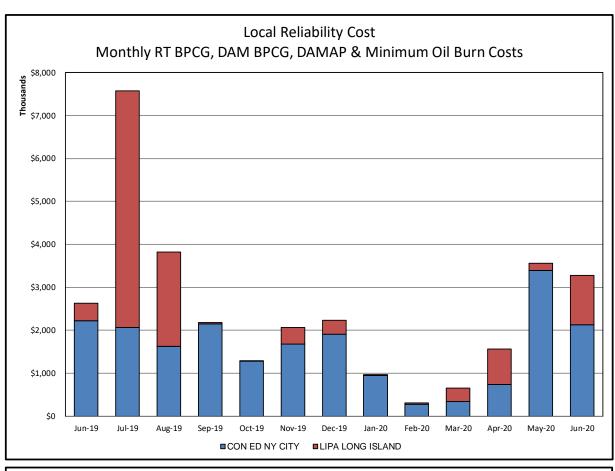
Day-Ahead Market Congestion Residual Categories				
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	Events Types Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples DAM scheduled outage for equipment modeled inservice for the TCC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

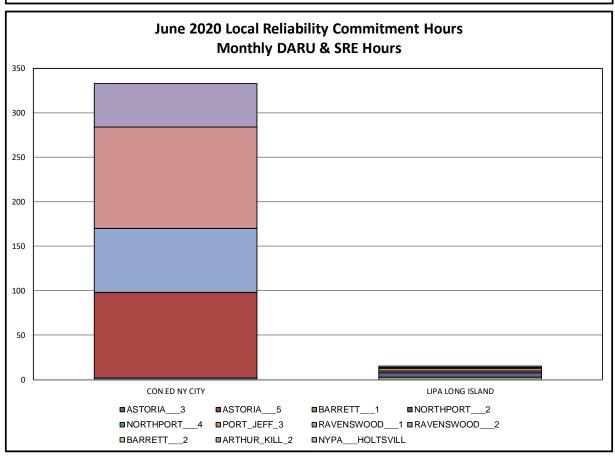




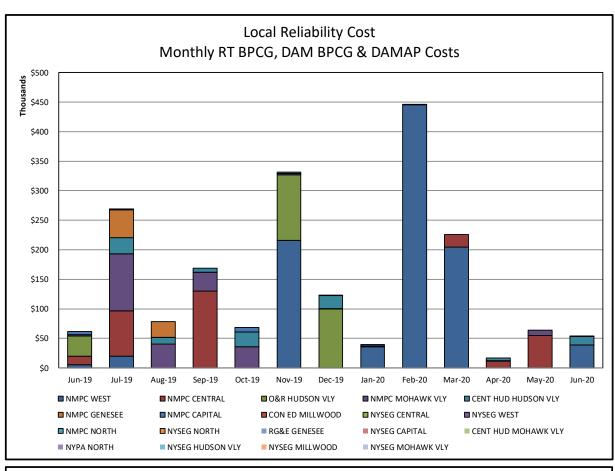


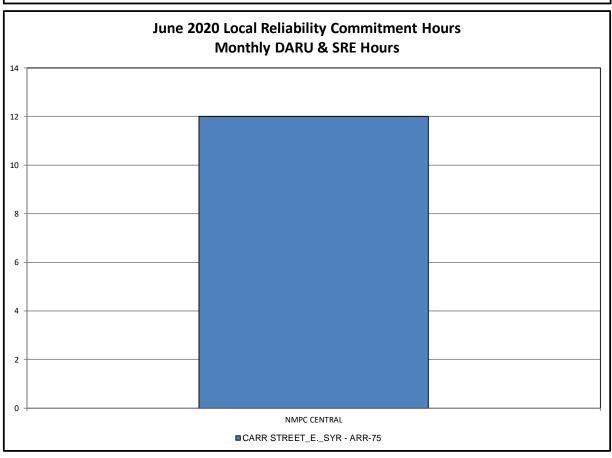




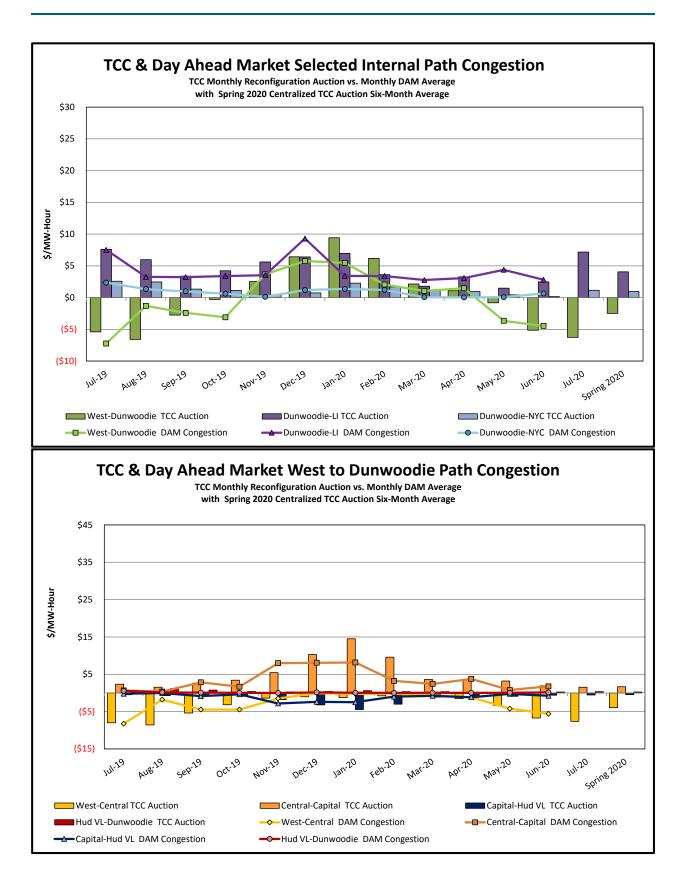




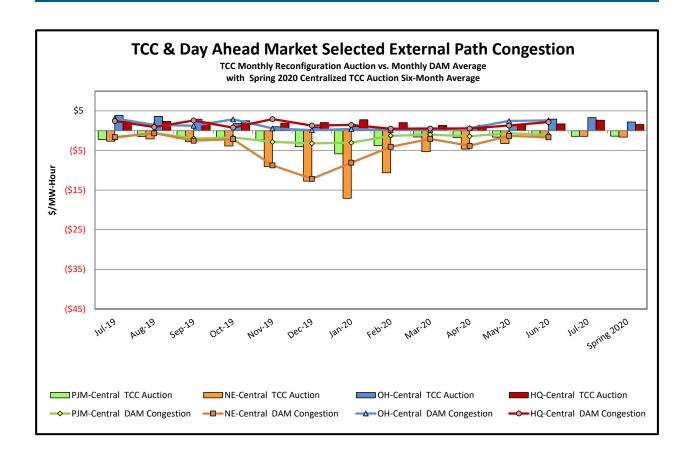






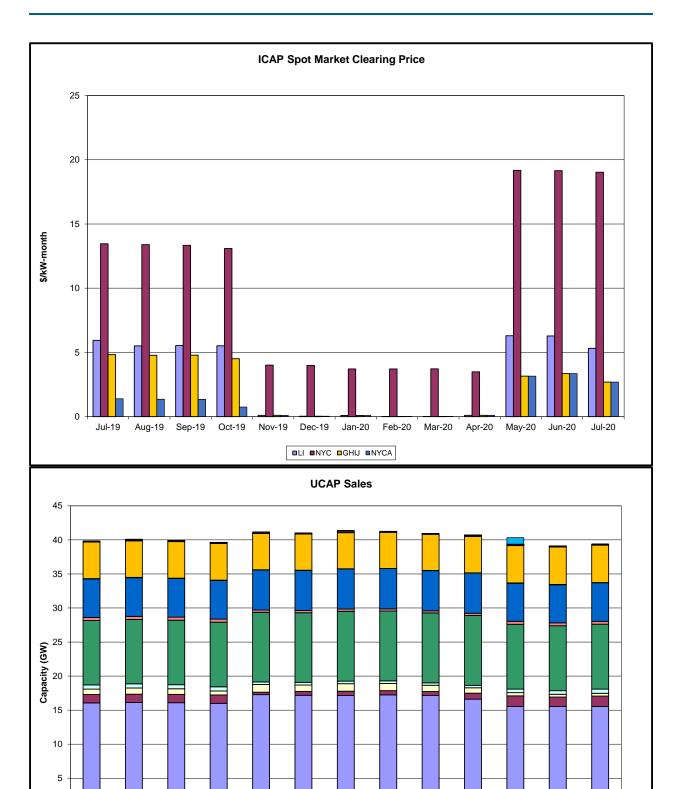








Jul-20



Jan-20

GHI - SCR Sold

■ROS - SCR Sold

Feb-20

Mar-20

■NYC - Gen Sold

□LI - Gen Unsold

Apr-20

May-20

■NYC - SCR Sold

LI - SCR Unsold

Jul-19

Aug-19

ROS - Gens Sold

■LI - Gen Sold

Sep-19

■ROS - Externals

LI - SCR Sold

Oct-19

Nov-19

□ROS - Exports

GHI - Gen Sold

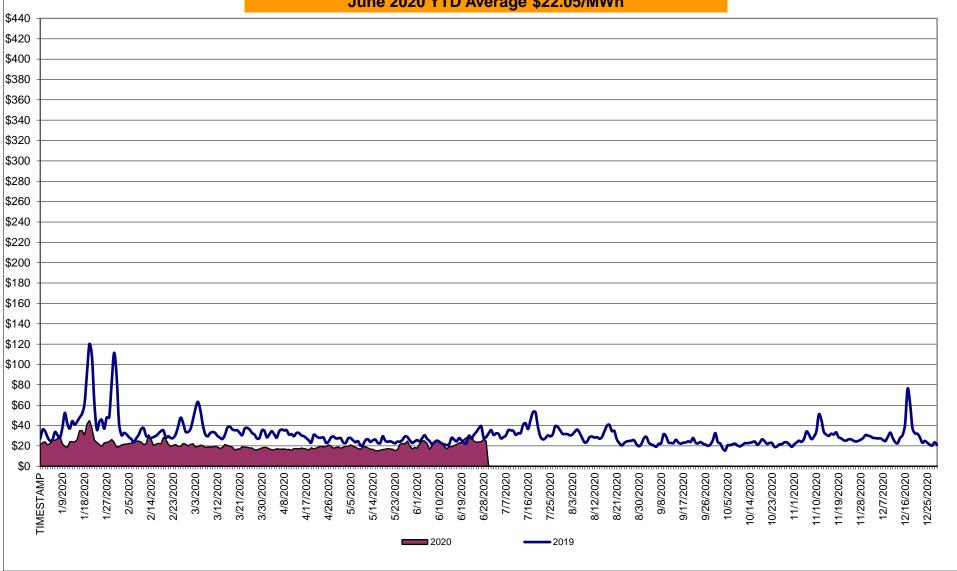
Dec-19

■NYC - Gen Unsold ■NYC - SCR Unsold ■ROS - Gen Unsold ■ROS - SCR Unsold ■GHI - Gen Unsold ■GHI - SCR Unsold

Market Performance Highlights June 2020

- LBMP for June is \$21.36/MWh; higher than \$16.14/MWh in May 2020 and lower than \$24.43/MWh in June 2019.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to May.
- June 2020 average year-to-date monthly cost of \$22.21/MWh is a 38% decrease from \$37.76/MWh in June 2019.
- Average daily sendout is 430 GWh/day in June; higher than 345 GWh/day in May 2020 and 429 GWh/day in June 2019.
- Natural gas prices and distillate prices are higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$1.44 /MMBtu, up from \$1.33/MMBtu in May.
 - Natural gas prices are down 31.5% year-over-year.
 - Jet Kerosene Gulf Coast was \$7.30/MMBtu, up from \$5.12/MMBtu in May.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$8.05/MMBtu, up from \$6.36/MMBtu in May.
 - Distillate prices are down 42.5% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.05)/MWh; lower than \$0.09/MWh in May.
 - Local Reliability Share is \$0.24/MWh, lower than \$0.32/MWh in May.
 - Statewide Share is (\$0.29)/MWh, lower than (\$0.23)/MWh in May.
 - TSA \$ per NYC MWh is \$0.04/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than May.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)* 2019 Annual Average \$32.59/MWh June 2019 YTD Average \$35.76/MWh June 2020 YTD Average \$22.05/MWh

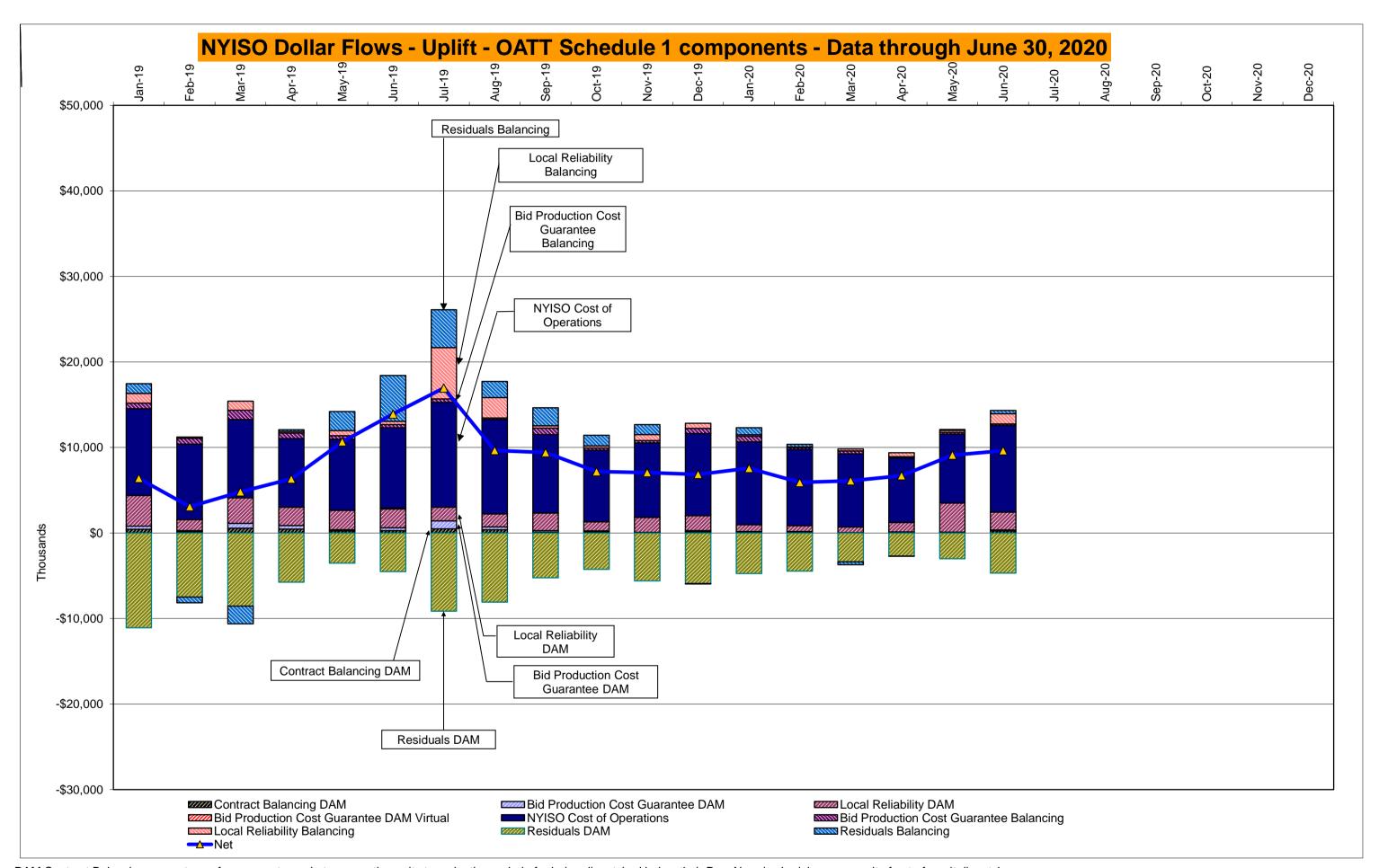


^{*} Excludes ICAP payments.

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

2020	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
LBMP	24.77	21.11	17.11	15.77	16.14	21.36						
NTAC	0.91	0.70	0.86	0.91	1.05	0.95						
Reserve	0.46	0.43	0.47	0.50	0.53	0.45						
Regulation	0.09	0.08	0.09	0.08	0.10	0.08						
NYISO Cost of Operations	0.68	0.69	0.68	0.66	0.71	0.74						
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.11	0.09						
Uplift	(0.15)	(0.23)	(0.19)	(80.0)	0.09	(0.05)						
Uplift: Local Reliability Share	0.07	0.06	0.07	0.14	0.32	0.24						
Uplift: Statewide Share	(0.22)	(0.29)	(0.26)	(0.21)	(0.23)	(0.29)						
Voltage Support and Black Start	0.44	0.44	0.44	0.43	0.45	0.45						
Avg Monthly Cost	27.29	23.32	19.55	18.38	19.16	24.09						
Avg YTD Cost	27.29	25.40	23.48	22.38	21.82	22.21						
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.04						
2019	<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>
2019 LBMP	<u>January</u> 50.93	February 33.51	<u>March</u> 34.91	<u>April</u> 28.01	<u>May</u> 23.10	<u>June</u> 24.43	<u>July</u> 33.18	<u>August</u> 27.83	September 22.22	October 20.84	November 27.39	December 29.52
							-					
LBMP	50.93	33.51	34.91	28.01	23.10	24.43	33.18	27.83	22.22	20.84	27.39	29.52
LBMP NTAC	50.93 0.51	33.51 0.69	34.91 0.98	28.01 1.16	23.10 0.72	2 4 .43 1.08	33.18 1.01	27.83 0.98	22.22 0.48	20.84 0.57	27.39 0.88	29.52 0.77
LBMP NTAC Reserve	50.93 0.51 0.54	33.51 0.69 0.51	34.91 0.98 0.55	28.01 1.16 0.63	23.10 0.72 0.63	24.43 1.08 0.50	33.18 1.01 0.44	27.83 0.98 0.49	22.22 0.48 0.50	20.84 0.57 0.62	27.39 0.88 0.50	29.52 0.77 0.44
LBMP NTAC Reserve Regulation	50.93 0.51 0.54 0.13	33.51 0.69 0.51 0.11	34.91 0.98 0.55 0.10	28.01 1.16 0.63 0.33	23.10 0.72 0.63 0.13	24.43 1.08 0.50 0.09	33.18 1.01 0.44 0.07	27.83 0.98 0.49 0.09	22.22 0.48 0.50 0.09	20.84 0.57 0.62 0.13	27.39 0.88 0.50 0.11	29.52 0.77 0.44 0.10
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	50.93 0.51 0.54 0.13 0.68 0.08 (0.25)	33.51 0.69 0.51 0.11 0.68 0.09 (0.44)	34.91 0.98 0.55 0.10 0.69 0.09 (0.33)	28.01 1.16 0.63 0.33 0.69 0.10 (0.15)	23.10 0.72 0.63 0.13 0.68 0.10 0.13	24.43 1.08 0.50 0.09 0.69 0.08 0.07	33.18 1.01 0.44 0.07 0.70 0.06 (0.06)	27.83 0.98 0.49 0.09 0.70 0.07 (0.20)	22.22 0.48 0.50 0.09 0.69 0.09 (0.13)	20.84 0.57 0.62 0.13 0.67 0.09 (0.09)	27.39 0.88 0.50 0.11 0.67 0.09 (0.13)	29.52 0.77 0.44 0.10 0.67 0.08 (0.19)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	50.93 0.51 0.54 0.13 0.68 0.08 (0.25) 0.32	33.51 0.69 0.51 0.11 0.68 0.09	34.91 0.98 0.55 0.10 0.69 0.09 (0.33) 0.31	28.01 1.16 0.63 0.33 0.69 0.10	23.10 0.72 0.63 0.13 0.68 0.10 0.13 0.23	24.43 1.08 0.50 0.09 0.69 0.08 0.07 0.19	33.18 1.01 0.44 0.07 0.70 0.06 (0.06) 0.44	27.83 0.98 0.49 0.09 0.70 0.07	22.22 0.48 0.50 0.09 0.69 0.09 (0.13) 0.17	20.84 0.57 0.62 0.13 0.67 0.09	27.39 0.88 0.50 0.11 0.67 0.09 (0.13) 0.19	29.52 0.77 0.44 0.10 0.67 0.08
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	50.93 0.51 0.54 0.13 0.68 0.08 (0.25) 0.32 (0.57)	33.51 0.69 0.51 0.11 0.68 0.09 (0.44) 0.11 (0.55)	34.91 0.98 0.55 0.10 0.69 0.09 (0.33) 0.31 (0.64)	28.01 1.16 0.63 0.33 0.69 0.10 (0.15) 0.20 (0.35)	23.10 0.72 0.63 0.13 0.68 0.10 0.13 0.23 (0.11)	24.43 1.08 0.50 0.09 0.69 0.08 0.07 0.19 (0.12)	33.18 1.01 0.44 0.07 0.70 0.06 (0.06) 0.44 (0.50)	27.83 0.98 0.49 0.09 0.70 0.07 (0.20) 0.25 (0.45)	22.22 0.48 0.50 0.09 0.69 0.09 (0.13) 0.17 (0.30)	20.84 0.57 0.62 0.13 0.67 0.09 (0.09) 0.11 (0.20)	27.39 0.88 0.50 0.11 0.67 0.09 (0.13) 0.19 (0.31)	29.52 0.77 0.44 0.10 0.67 0.08 (0.19) 0.17 (0.35)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	50.93 0.51 0.54 0.13 0.68 0.08 (0.25) 0.32	33.51 0.69 0.51 0.11 0.68 0.09 (0.44) 0.11	34.91 0.98 0.55 0.10 0.69 0.09 (0.33) 0.31	28.01 1.16 0.63 0.33 0.69 0.10 (0.15) 0.20	23.10 0.72 0.63 0.13 0.68 0.10 0.13 0.23	24.43 1.08 0.50 0.09 0.69 0.08 0.07 0.19	33.18 1.01 0.44 0.07 0.70 0.06 (0.06) 0.44	27.83 0.98 0.49 0.09 0.70 0.07 (0.20) 0.25	22.22 0.48 0.50 0.09 0.69 0.09 (0.13) 0.17	20.84 0.57 0.62 0.13 0.67 0.09 (0.09) 0.11	27.39 0.88 0.50 0.11 0.67 0.09 (0.13) 0.19	29.52 0.77 0.44 0.10 0.67 0.08 (0.19) 0.17
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	50.93 0.51 0.54 0.13 0.68 0.08 (0.25) 0.32 (0.57)	33.51 0.69 0.51 0.11 0.68 0.09 (0.44) 0.11 (0.55)	34.91 0.98 0.55 0.10 0.69 0.09 (0.33) 0.31 (0.64)	28.01 1.16 0.63 0.33 0.69 0.10 (0.15) 0.20 (0.35)	23.10 0.72 0.63 0.13 0.68 0.10 0.13 0.23 (0.11)	24.43 1.08 0.50 0.09 0.69 0.08 0.07 0.19 (0.12)	33.18 1.01 0.44 0.07 0.70 0.06 (0.06) 0.44 (0.50)	27.83 0.98 0.49 0.09 0.70 0.07 (0.20) 0.25 (0.45)	22.22 0.48 0.50 0.09 0.69 0.09 (0.13) 0.17 (0.30)	20.84 0.57 0.62 0.13 0.67 0.09 (0.09) 0.11 (0.20)	27.39 0.88 0.50 0.11 0.67 0.09 (0.13) 0.19 (0.31)	29.52 0.77 0.44 0.10 0.67 0.08 (0.19) 0.17 (0.35)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	50.93 0.51 0.54 0.13 0.68 0.08 (0.25) 0.32 (0.57) 0.37	33.51 0.69 0.51 0.11 0.68 0.09 (0.44) 0.11 (0.55) 0.37	34.91 0.98 0.55 0.10 0.69 0.09 (0.33) 0.31 (0.64) 0.38	28.01 1.16 0.63 0.33 0.69 0.10 (0.15) 0.20 (0.35) 0.38	23.10 0.72 0.63 0.13 0.68 0.10 0.13 0.23 (0.11) 0.38	24.43 1.08 0.50 0.09 0.69 0.08 0.07 0.19 (0.12) 0.38	33.18 1.01 0.44 0.07 0.70 0.06 (0.06) 0.44 (0.50) 0.38	27.83 0.98 0.49 0.09 0.70 0.07 (0.20) 0.25 (0.45) 0.38	22.22 0.48 0.50 0.09 0.69 0.09 (0.13) 0.17 (0.30) 0.38	20.84 0.57 0.62 0.13 0.67 0.09 (0.09) 0.11 (0.20) 0.37	27.39 0.88 0.50 0.11 0.67 0.09 (0.13) 0.19 (0.31) 0.37	29.52 0.77 0.44 0.10 0.67 0.08 (0.19) 0.17 (0.35) 0.36

^{*} Excludes ICAP payments. Market Mitigation and Analysis Prepared: 7/10/2020 10:28 AM



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

2020	lonuoni	Eshmuon.	Marah	Anril	Mov	luna	Lukz	August	Cantambar	Ootobor	November	Dooomhor
2020	<u>January</u>	<u>February</u>	March	April	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	14,194,609	13,172,669	12,495,999	11,372,390	11,462,320	13,825,178						
DAM LSE Internal LBMP Energy Sales	56%	56%	59%	54%	55%	58%						
DAM External TC LBMP Energy Sales	6%	5%	5%	7%	4%	3%						
DAM Bilateral - Internal Bilaterals	30%	30%	27%	30%	31%	29%						
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	6%	6%	6%	5%						
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%						
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	1%	1%	2%						
Balancing Energy Market MWh	-26,753	-142,168	144,076	22,599	-137,565	-180,149						
Balancing Energy LSE Internal LBMP Energy Sales	-1080%	-221%	-85%	-884%	-187%	-134%						
Balancing Energy External TC LBMP Energy Sales	1156%	181%	240%	1233%	137%	99%						
Balancing Energy Bilateral - Internal Bilaterals	62%	5%	12%	55%	12%	7%						
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%						
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	127%	16%	18%	92%	12%	5%						
Balancing Energy Bilateral - Wheel Through Bilaterals	-365%	-81%	-85%	-396%	-74%	-77%						
Transactions Summary												
LBMP	62%	62%	65%	61%	59%	62%						
Internal Bilaterals	31%	31%	27%	30%	32%	30%						
Import Bilaterals	5%	5%	6%	6%	6%	5%						
Export Bilaterals	2%	2%	2%	2%	2%	2%						
Wheels Through	0%	1%	0%	0%	0%	1%						
Market Share of Total Load												
Day Ahead Market	100.2%	101.1%	98.9%	99.8%	101.2%	101.3%						
Balancing Energy +	-0.2%	-1.1%	1.1%	0.2%	-1.2%	-1.3%						
Total MWH	14,167,856	13,030,501	12,640,075	11,394,989	11,324,755	13,645,029						
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430						
2040	lonuom.		Marah	انسم ۸	Mov	مصيا	leder	August	Contombor	Ootobor	Navanahar	Dagambar
2019	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	<u>December</u>
Day Ahead Market MWh	15,299,458	13,391,383	13,527,834	11,811,029	12,521,583	13,723,372	17,416,589	16,379,968	13,588,715	12,567,821	13,036,152	14,345,711
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	15,299,458 57%	13,391,383 57%	13,527,834 59%	11,811,029 59%	12,521,583 57%	13,723,372 58%	17,416,589 64%	16,379,968 63%	13,588,715 58%	12,567,821 57%	13,036,152 54%	14,345,711 56%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	15,299,458 57% 6%	13,391,383 57% 5%	13,527,834 59% 3%	11,811,029 59% 1%	12,521,583 57% 3%	13,723,372 58% 3%	17,416,589 64% 3%	16,379,968 63% 3%	13,588,715 58% 3%	12,567,821 57% 4%	13,036,152 54% 6%	14,345,711 56% 6%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	15,299,458 57% 6% 29%	13,391,383 57% 5% 30%	13,527,834 59% 3% 30%	11,811,029 59% 1% 31%	12,521,583 57% 3% 32%	13,723,372 58% 3% 29%	17,416,589 64% 3% 26%	16,379,968 63% 3% 26%	13,588,715 58% 3% 30%	12,567,821 57% 4% 32%	13,036,152 54% 6% 32%	14,345,711 56% 6% 30%
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	15,299,458 57% 6% 29% 5%	13,391,383 57% 5% 30% 5%	13,527,834 59% 3% 30% 5%	11,811,029 59% 1% 31% 5%	12,521,583 57% 3% 32% 6%	13,723,372 58% 3% 29% 5%	17,416,589 64% 3% 26% 4%	16,379,968 63% 3% 26% 4%	13,588,715 58% 3% 30% 5%	12,567,821 57% 4% 32% 5%	13,036,152 54% 6% 32% 5%	14,345,711 56% 6% 30% 5%
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	15,299,458 57% 6% 29% 5% 1%	13,391,383 57% 5% 30% 5% 1%	13,527,834 59% 3% 30% 5% 2%	11,811,029 59% 1% 31% 5% 2%	12,521,583 57% 3% 32% 6% 2%	13,723,372 58% 3% 29% 5% 2%	17,416,589 64% 3% 26% 4% 1%	16,379,968 63% 3% 26% 4% 1%	13,588,715 58% 3% 30% 5% 2%	12,567,821 57% 4% 32% 5% 2%	13,036,152 54% 6% 32% 5% 2%	14,345,711 56% 6% 30% 5% 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	15,299,458 57% 6% 29% 5%	13,391,383 57% 5% 30% 5%	13,527,834 59% 3% 30% 5%	11,811,029 59% 1% 31% 5%	12,521,583 57% 3% 32% 6%	13,723,372 58% 3% 29% 5%	17,416,589 64% 3% 26% 4%	16,379,968 63% 3% 26% 4%	13,588,715 58% 3% 30% 5%	12,567,821 57% 4% 32% 5%	13,036,152 54% 6% 32% 5%	14,345,711 56% 6% 30% 5%
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	15,299,458 57% 6% 29% 5% 1%	13,391,383 57% 5% 30% 5% 1%	13,527,834 59% 3% 30% 5% 2%	11,811,029 59% 1% 31% 5% 2%	12,521,583 57% 3% 32% 6% 2%	13,723,372 58% 3% 29% 5% 2%	17,416,589 64% 3% 26% 4% 1%	16,379,968 63% 3% 26% 4% 1%	13,588,715 58% 3% 30% 5% 2%	12,567,821 57% 4% 32% 5% 2%	13,036,152 54% 6% 32% 5% 2%	14,345,711 56% 6% 30% 5% 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	15,299,458 57% 6% 29% 5% 1% 2%	13,391,383 57% 5% 30% 5% 1% 2%	13,527,834 59% 3% 30% 5% 2% 2%	11,811,029 59% 1% 31% 5% 2% 2%	12,521,583 57% 3% 32% 6% 2% 1%	13,723,372 58% 3% 29% 5% 2% 2%	17,416,589 64% 3% 26% 4% 1% 2%	16,379,968 63% 3% 26% 4% 1% 2%	13,588,715 58% 3% 30% 5% 2% 2%	12,567,821 57% 4% 32% 5% 2% 1%	13,036,152 54% 6% 32% 5% 2% 1%	14,345,711 56% 6% 30% 5% 2% 1%
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	15,299,458 57% 6% 29% 5% 1% 2% -322,442	13,391,383 57% 5% 30% 5% 1% 2% -323,188	13,527,834 59% 3% 30% 5% 2% 2% -261,217	11,811,029 59% 1% 31% 5% 2% 2% -218,482	12,521,583 57% 3% 32% 6% 2% 1% -392,699	13,723,372 58% 3% 29% 5% 2% 2% -102,044	17,416,589 64% 3% 26% 4% 1% 2% 103,628	16,379,968 63% 3% 26% 4% 1% 2% -514,102	13,588,715 58% 3% 30% 5% 2% 2% -247,267	12,567,821 57% 4% 32% 5% 2% 1% -112,057	13,036,152 54% 6% 32% 5% 2% 1% -17,421	14,345,711 56% 6% 30% 5% 2% 1% 46,828
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	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119%	13,588,715 58% 3% 30% 5% 2% 2% -247,267 -163%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480%
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	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178% 113%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150% 68%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41%	13,588,715 58% 3% 30% 5% 2% 2% -247,267 -163% 93%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332% 1435%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480% 699%
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	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67% -1%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178% 113% 2%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150% 68% 1%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233% 0%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199% 5%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41% 0%	13,588,715 58% 3% 30% 5% 2% 2% -247,267 -163% 93% -4%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266% 6%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332% 1435% 103%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480% 699% 39%
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	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4% 0%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67% -1% 0%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3% 0%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178% 113% 2% 0%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150% 68% 1% 0%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233% 0% 0%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199% 5% 15%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41% 0% 0%	13,588,715 58% 3% 30% 5% 2% 2% -247,267 -163% 93% -4% 0%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266% 6% 0%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332% 1435% 103% 0%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480% 699% 39% 0%
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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 Export Bilaterals Mheels Through Market Share of Total Load Day Ahead Market	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4% 0% 3% -45% 63% 29% 5% 1% 1%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67% -1% 0% 7% -47% 62% 30% 5% 2% 1% 102.5%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3% 0% 6% -47% 61% 30% 6% 2% 1% 102.0%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178% 113% 2% 0% 7% -44% 60% 31% 6% 2% 1%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150% 68% 1% 0% 2% -21% 59% 33% 6% 2% 0%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233% 0% 0% 8% -77% 62% 30% 5% 2% 1%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199% 5% 15% 8% -125% 68% 25% 4% 1% 1%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41% 0% 0% 1% -23% 65% 27% 5% 1% 1% 1%	13,588,715 58% 3% 30% 5% 2% 2% -247,267 -163% 93% -4% 0% 6% -31% 61% 30% 5% 2% 2% 2%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266% 6% 0% 25% -52% 61% 32% 5% 2% 0% 100.9%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332% 1435% 103% 0% 170% -476% 60% 32% 5% 2% 0%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480% 699% 39% 0% 70% -229% 63% 30% 5% 2% 0% 99.7%
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 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 +	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4% 0% 3% -45% 63% 29% 5% 1% 1%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67% -1% 0% 7% -47% 62% 30% 5% 2% 1% 102.5% -2.5%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3% 0% 6% -47% 61% 30% 6% 2% 1% 102.0% -2.0%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178% 113% 2% 0% -7% -44% 60% 31% 6% 2% 1%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150% 68% 1% 0% 2% -21% 59% 33% 6% 2% 0% 103.2% -3.2%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233% 0% 0% 8% -77% 62% 30% 5% 2% 1% 100.7% -0.7%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199% 5% 15% 8% -125% 68% 25% 4% 1% 1%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41% 0% 0% 1% -23% 65% 27% 5% 1% 1% 1% 1% 103.2% -3.2%	13,588,715 58% 3% 30% 5% 2% 2% -247,267 -163% 93% -4% 0% 6% -31% 61% 30% 5% 2% 2% 2% 2%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266% 6% 0% 25% -52% 61% 32% 5% 2% 0% 100.9% -0.9%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332% 1435% 103% 0% 170% -476% 60% 32% 5% 2% 0% 100.1% -0.1%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480% 699% 39% 0% 70% -229% 63% 30% 5% 2% 0% 99.7% 0.3%
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 Export Bilaterals Mheels Through Market Share of Total Load Day Ahead Market	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4% 0% 3% -45% 63% 29% 5% 1% 1%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67% -1% 0% 7% -47% 62% 30% 5% 2% 1% 102.5%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3% 0% 6% -47% 61% 30% 6% 2% 1% 102.0%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178% 113% 2% 0% 7% -44% 60% 31% 6% 2% 1%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150% 68% 1% 0% 2% -21% 59% 33% 6% 2% 0%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233% 0% 0% 8% -77% 62% 30% 5% 2% 1%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199% 5% 15% 8% -125% 68% 25% 4% 1% 1%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41% 0% 0% 1% -23% 65% 27% 5% 1% 1% 1%	13,588,715 58% 3% 30% 5% 2% 2% -247,267 -163% 93% -4% 0% 6% -31% 61% 30% 5% 2% 2% 2%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266% 6% 0% 25% -52% 61% 32% 5% 2% 0% 100.9%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332% 1435% 103% 0% 170% -476% 60% 32% 5% 2% 0%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480% 699% 39% 0% 70% -229% 63% 30% 5% 2% 0% 99.7%

⁺ 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.

^{*} The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

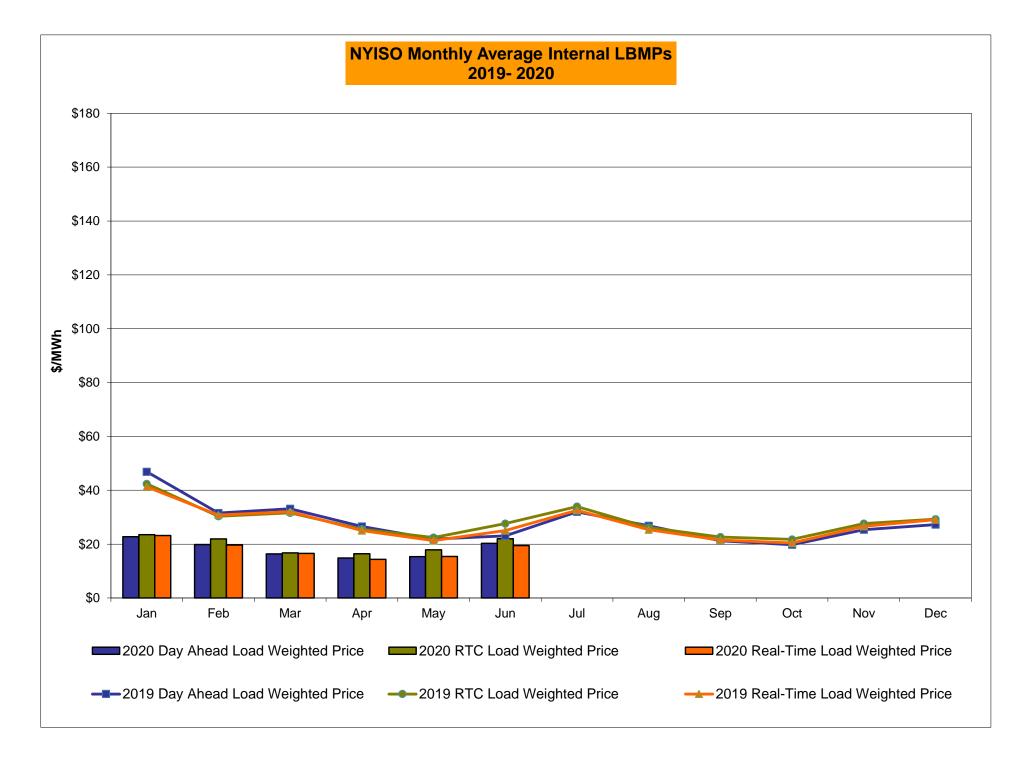
NYISO Markets 2020 Energy Statistics

	<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 *	\$22.11	\$19.48	\$16.07	\$14.67	\$14.97	\$19.15			
Standard Deviation	\$7.43	\$4.45	\$3.21	\$2.71	\$3.55	\$6.40			
Load Weighted Price **	\$22.77	\$19.84	\$16.36	\$14.86	\$15.37	\$20.28			
RTC LBMP									
Price *	\$22.86	\$21.48	\$16.48	\$16.23	\$17.46	\$20.84			
Standard Deviation	\$9.33	\$53.30	\$4.84	\$5.17	\$8.61	\$11.26			
Load Weighted Price **	\$23.50	\$21.94	\$16.74	\$16.44	\$17.89	\$22.01			
REAL TIME LBMP									
Price *	\$22.53	\$19.29	\$16.24	\$14.14	\$14.90	\$18.35			
Standard Deviation	\$11.90	\$8.68	\$7.48	\$6.98	\$8.35	\$9.33			
Load Weighted Price **	\$23.20	\$19.68	\$16.58	\$14.35	\$15.42	\$19.46			
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430			

NYISO Markets 2019 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	October	November I	<u>December</u>
DAY AHEAD LBMP	Ф4E 04	<u></u>	#20.04	<u></u>	CO4 4C	CO4 7 0	600.40	ФОГ ОГ	ФОО 4 Б	640.40	604.0 5	<u></u>
Price *	\$45.01	\$30.66	\$32.34	\$25.97	\$21.16	\$21.79	\$30.16	\$25.35	\$20.45	\$19.18	\$24.65	\$26.29
Standard Deviation	\$25.67	\$12.86	\$9.30	\$6.32	\$5.89	\$7.28	\$12.06	\$8.73	\$5.57	\$5.09	\$7.73	\$11.81
Load Weighted Price **	\$46.88	\$31.53	\$33.14	\$26.57	\$21.89	\$23.04	\$31.98	\$26.83	\$21.23	\$19.77	\$25.36	\$27.22
DTC I DMD												
RTC LBMP												
Price *	\$40.86	\$29.74	\$31.04	\$25.07	\$21.88	\$25.67	\$32.23	\$24.92	\$21.70	\$20.92	\$26.82	\$28.17
Standard Deviation	\$23.02	\$10.79	\$8.48	\$7.53	\$8.01	\$23.45	\$21.96	\$14.96	\$9.22	\$13.95	\$10.37	\$16.26
Load Weighted Price **	\$42.39	\$30.32	\$31.62	\$25.54	\$22.44	\$27.64	\$33.92	\$26.14	\$22.60	\$21.76	\$27.64	\$29.24
REAL TIME LBMP												
Price *	\$39.54	\$30.13	\$31.46	\$24.47	\$20.56	\$23.30	\$30.77	\$24.01	\$20.49	\$19.53	\$25.82	\$27.81
Standard Deviation	\$26.03	\$13.77	\$12.54	\$17.27	\$10.35	\$17.49	\$20.63	\$12.36	\$9.62	\$12.02	\$11.60	\$19.64
Load Weighted Price **	\$41.24	\$30.80	\$32.06	\$25.06	\$21.28	\$25.05	\$32.53	\$25.34	\$21.50	\$20.43	\$26.64	\$29.05
Average Daily Energy Sendout/Month GWh	449	436	411	371	373	429	539	487	419	377	401	427

^{*} Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.

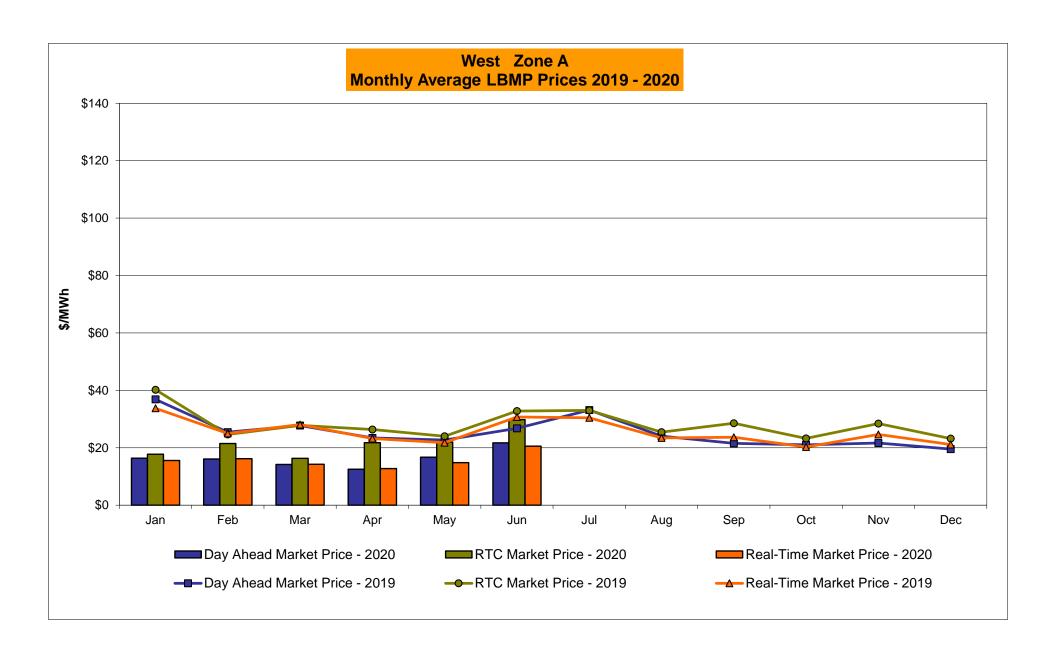


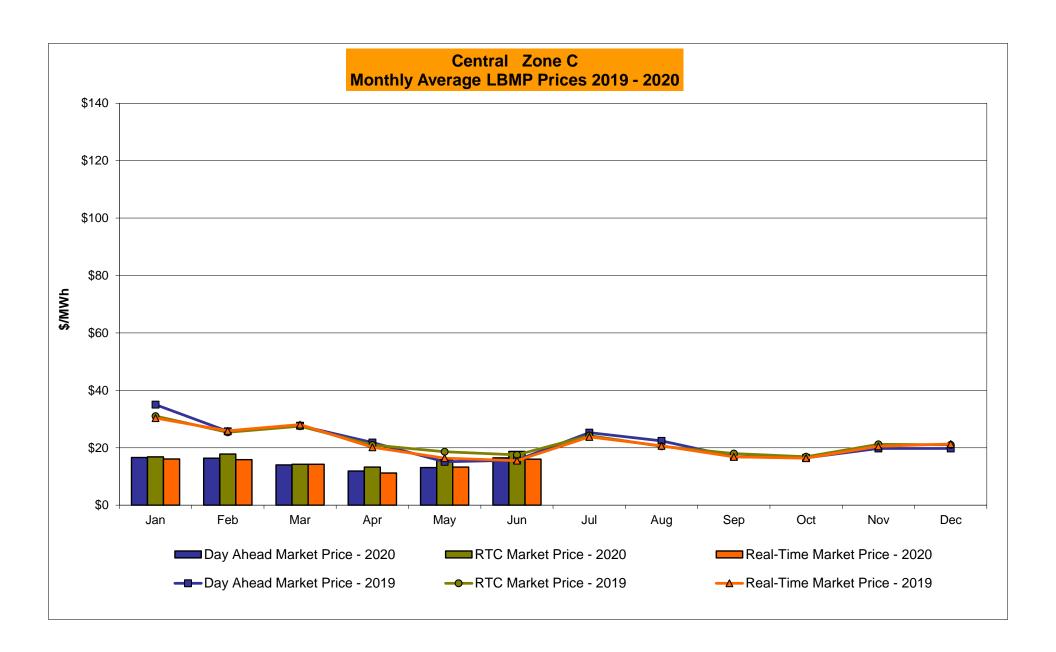
June 2020 Zonal LBMP Statistics for NYISO (\$/MWh)

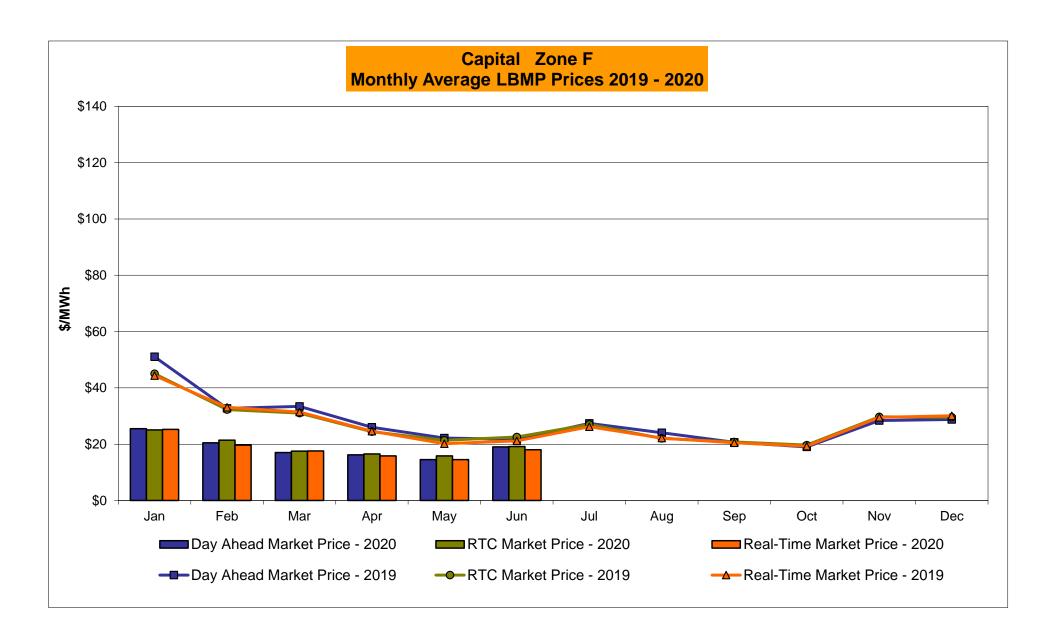
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	21.69	15.72	10.08	16.46	16.05	19.02	18.61	18.89	18.99	19.78	22.27
Standard Deviation	12.20	6.13	5.67	6.21	5.93	5.30	5.39	5.65	5.72	6.33	7.26
RTC LBMP											
Unweighted Price *	29.81	18.21	12.87	18.70	17.38	19.19	18.95	19.12	19.17	19.71	24.86
Standard Deviation	39.20	25.90	9.99	16.05	9.30	6.73	6.91	6.96	6.97	7.61	25.83
REAL TIME LBMP											
Unweighted Price *	20.55	15.65	11.35	16.03	15.57	18.03	17.68	17.90	17.93	18.78	21.49
Standard Deviation	22.02	13.56	11.92	9.08	8.15	8.18	8.02	8.14	8.12	9.25	14.49
		LIVDDO	LIVDDO			CDOCC					
	ONTARIO	HYDRO	HYDRO		NEW	CROSS	NODTUDODT				
	ONTARIO IESO	QUEBEC	HYDRO QUEBEC Import/Export)	PJM	NEW ENGLAND		NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		QUEBEC	QUEBEC	РЈМ		SOUND		NEPTUNE Controllable	LINDEN VFT	HUDSON Controllable	Dennison <u>Controllable</u>
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND CABLE	NORWALK				
DAY AHEAD LBMP	IESO	QUEBEC (Wheel) (QUEBEC Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable	<u>Controllable</u>	Controllable
Unweighted Price *	Zone O 12.99	QUEBEC (Wheel) (Zone M 13.52	QUEBEC Import/Export) Zone M 13.52	Zone P 12.99	Zone N 18.97	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line 21.03	Controllable Line 10.04	Controllable Line 19.23	Controllable Line 21.30
	IESO Zone O	QUEBEC (Wheel) (Zone M	QUEBEC Import/Export) Zone M	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price * Standard Deviation RTC LBMP	Zone O 12.99 4.73	QUEBEC (Wheel) (<u>Zone M</u> 13.52 4.95	QUEBEC Import/Export) Zone M 13.52 4.95	Zone P 12.99 4.73	Zone N 18.97 5.23	SOUND CABLE Controllable Line 17.95 6.08	NORWALK Controllable Line 21.84 7.20	Controllable Line 21.03 6.22	Controllable Line 10.04	Controllable Line 19.23	Controllable Line 21.30 7.00
Unweighted Price * Standard Deviation	IESO Zone O 12.99 4.73	QUEBEC (Wheel) (Zone M 13.52 4.95	QUEBEC Import/Export) Zone M 13.52 4.95	Zone P 12.99 4.73	ENGLAND Zone N 18.97 5.23	SOUND CABLE Controllable Line 17.95 6.08	NORWALK Controllable Line 21.84 7.20	Controllable Line 21.03	Controllable Line 10.04 5.49	Controllable Line 19.23 5.76	Controllable Line 21.30
Unweighted Price * Standard Deviation RTC LBMP	Zone O 12.99 4.73	QUEBEC (Wheel) (<u>Zone M</u> 13.52 4.95	QUEBEC Import/Export) Zone M 13.52 4.95	Zone P 12.99 4.73	Zone N 18.97 5.23	SOUND CABLE Controllable Line 17.95 6.08	NORWALK Controllable Line 21.84 7.20	Controllable Line 21.03 6.22	Controllable Line 10.04 5.49	Controllable Line 19.23 5.76	Controllable Line 21.30 7.00
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation REAL TIME LBMP	12.99 4.73 12.25 9.87	QUEBEC (Wheel) (Zone M 13.52 4.95 13.80 7.97	QUEBEC Import/Export) Zone M 13.52 4.95 13.80 7.97	2one P 12.99 4.73 12.25 9.87	Zone N 18.97 5.23 20.45 9.08	SOUND CABLE Controllable Line 17.95 6.08	NORWALK Controllable Line 21.84 7.20 25.19 28.89	21.03 6.22 22.46 23.49	Controllable Line 10.04 5.49 12.86 9.99	19.23 5.76 19.04 6.42	21.30 7.00 22.30 23.50
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	IESO Zone O 12.99 4.73	QUEBEC (Wheel) (Zone M 13.52 4.95	QUEBEC Import/Export) Zone M 13.52 4.95	Zone P 12.99 4.73	ENGLAND Zone N 18.97 5.23	SOUND CABLE Controllable Line 17.95 6.08	NORWALK Controllable Line 21.84 7.20	21.03 6.22	Controllable Line 10.04 5.49	Controllable Line 19.23 5.76	21.30 7.00

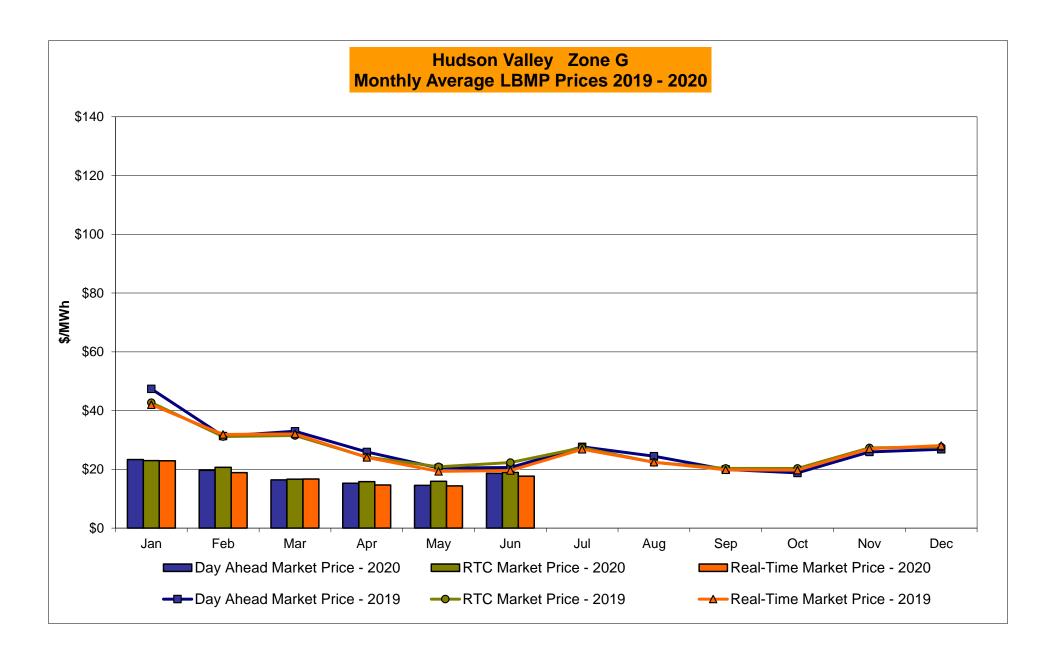
Market Mitigation and Analysis Prepared: 7/10/2020 10:25 AM

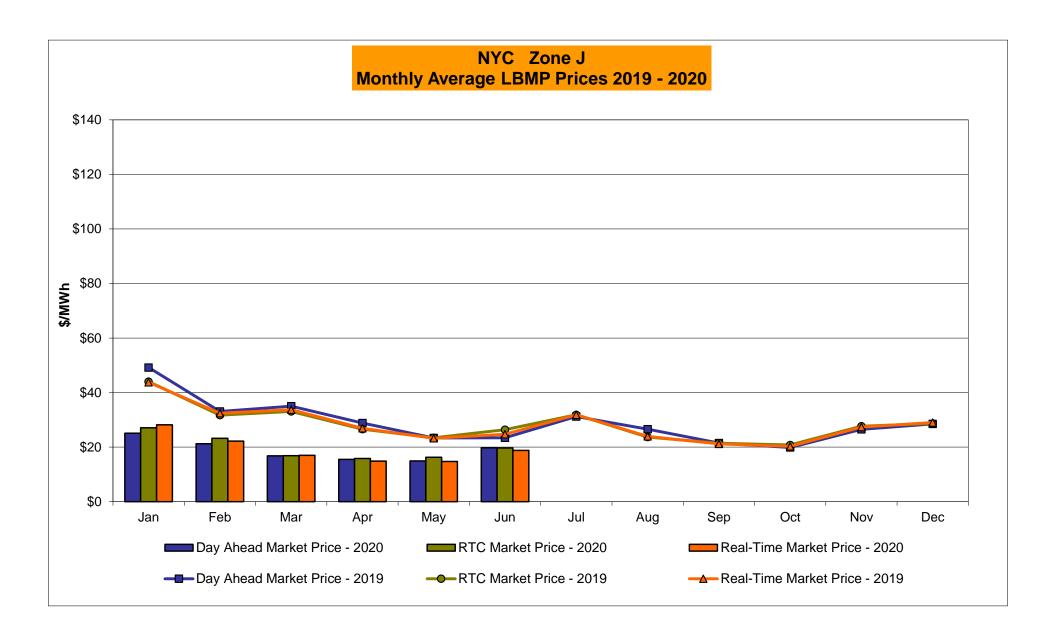
^{*} Straight LBMP averages

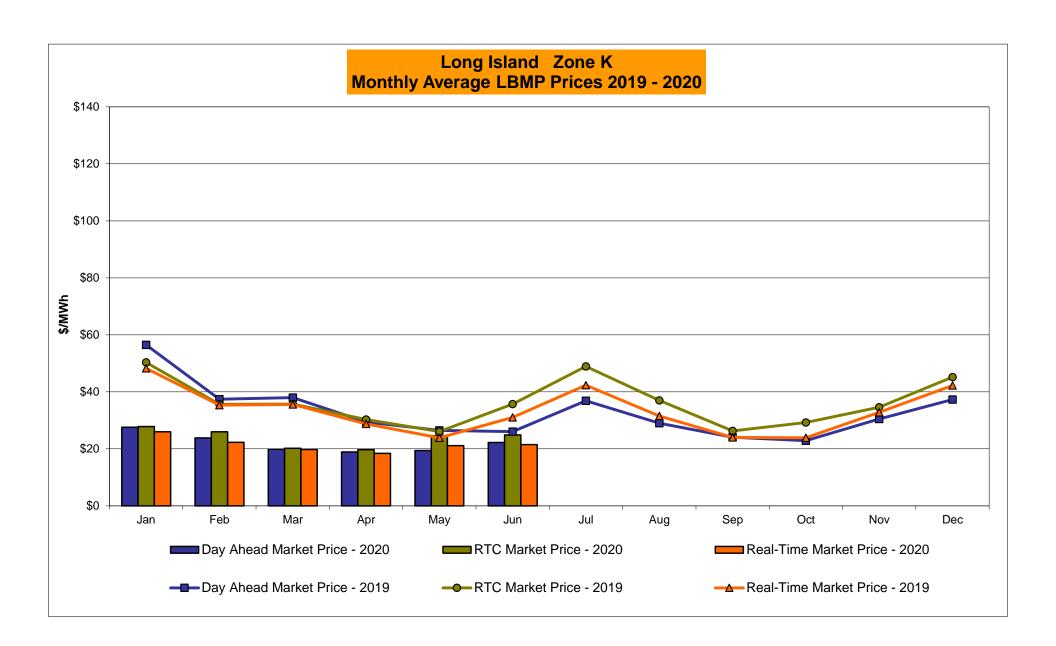


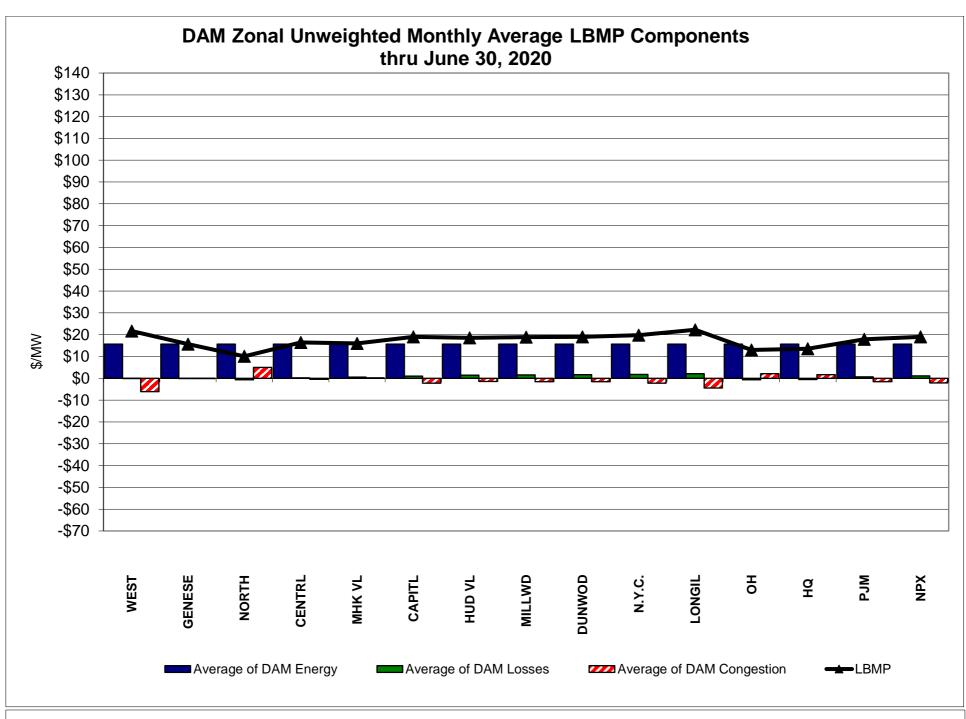


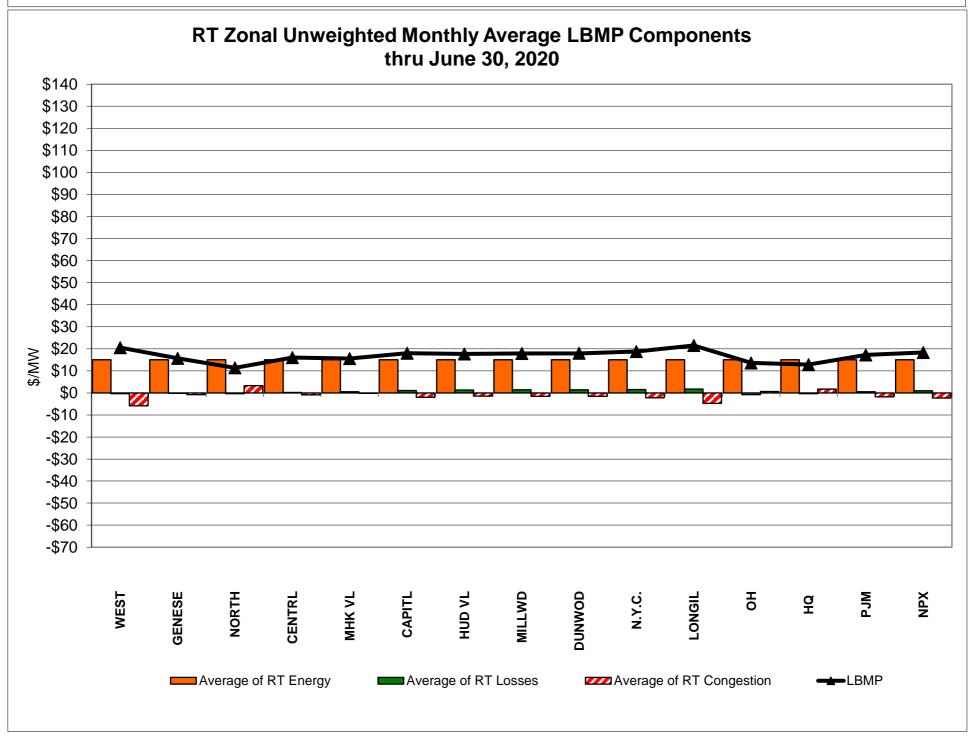




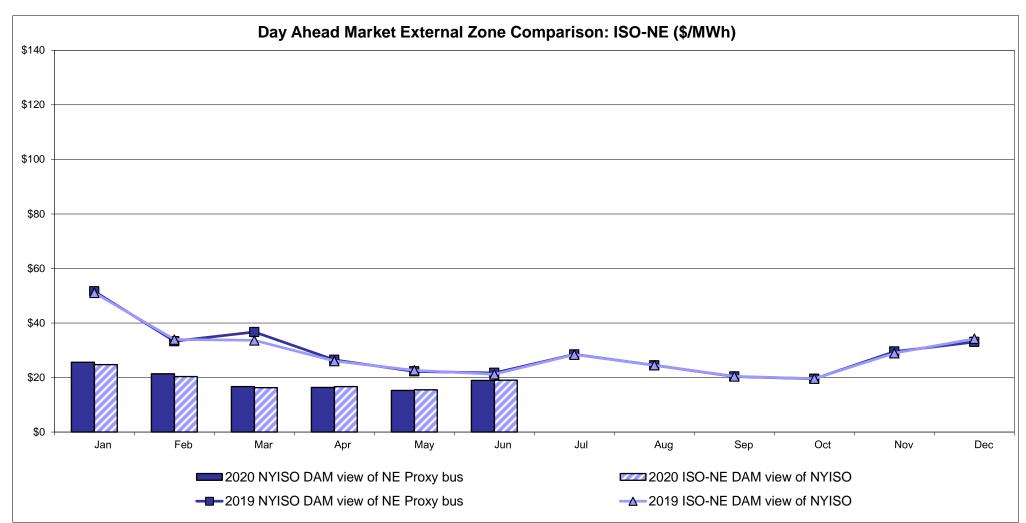


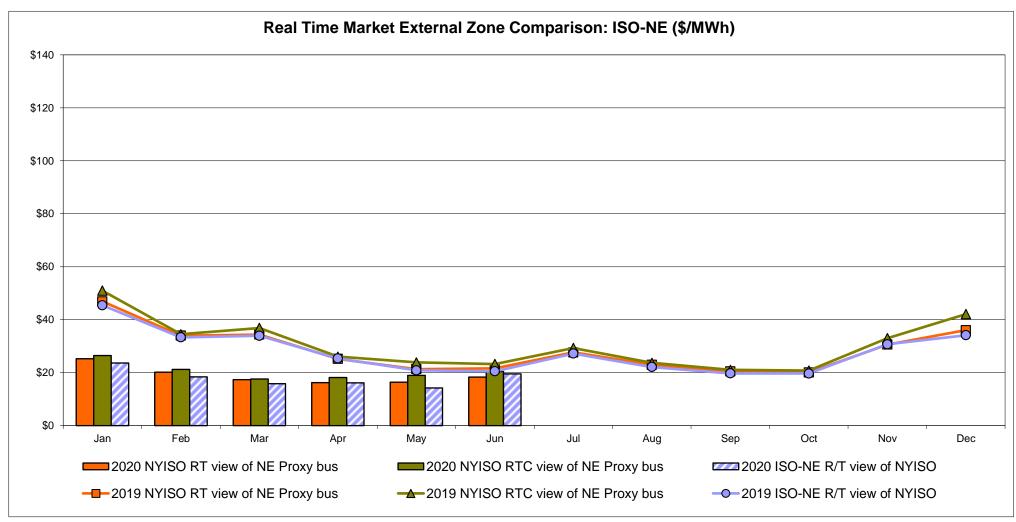


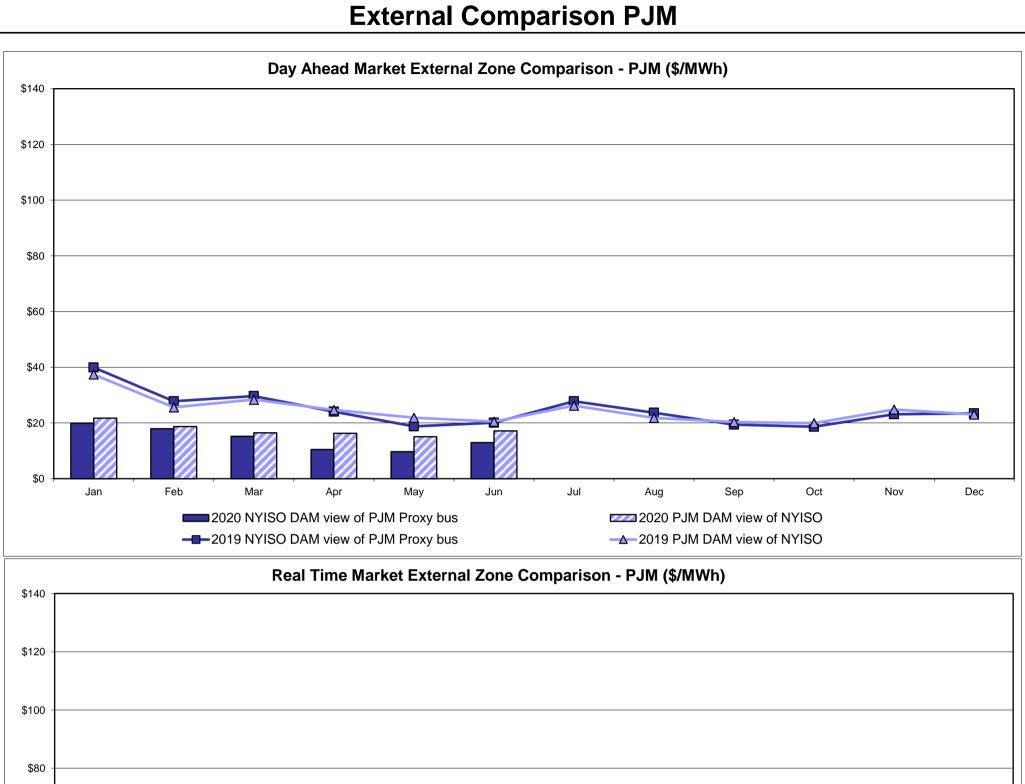


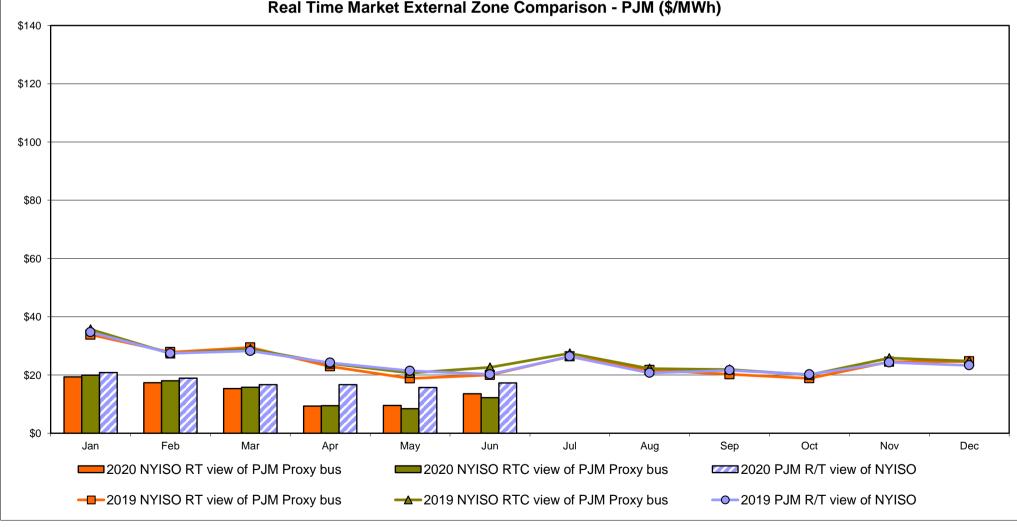


External Comparison ISO-New England

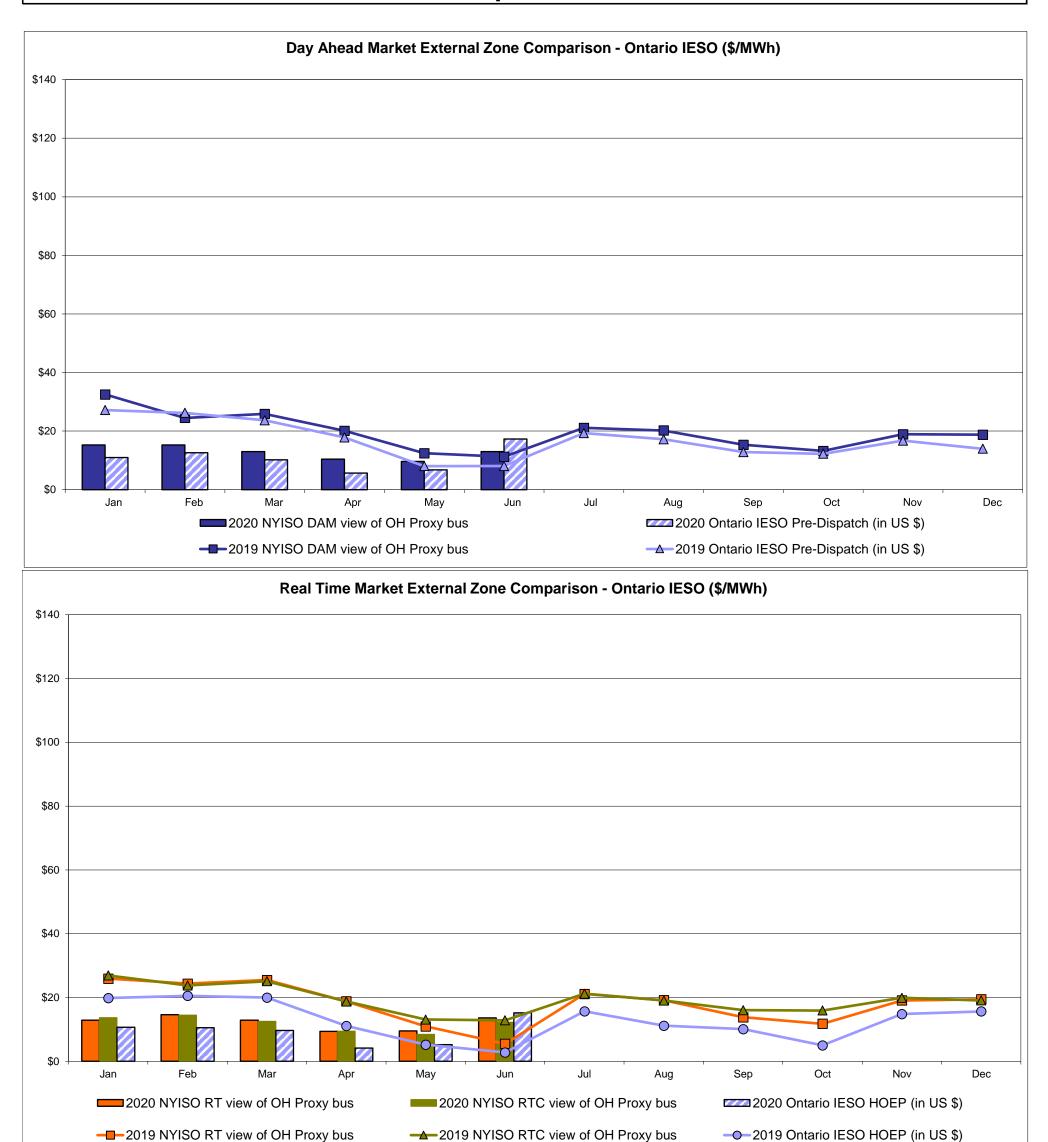








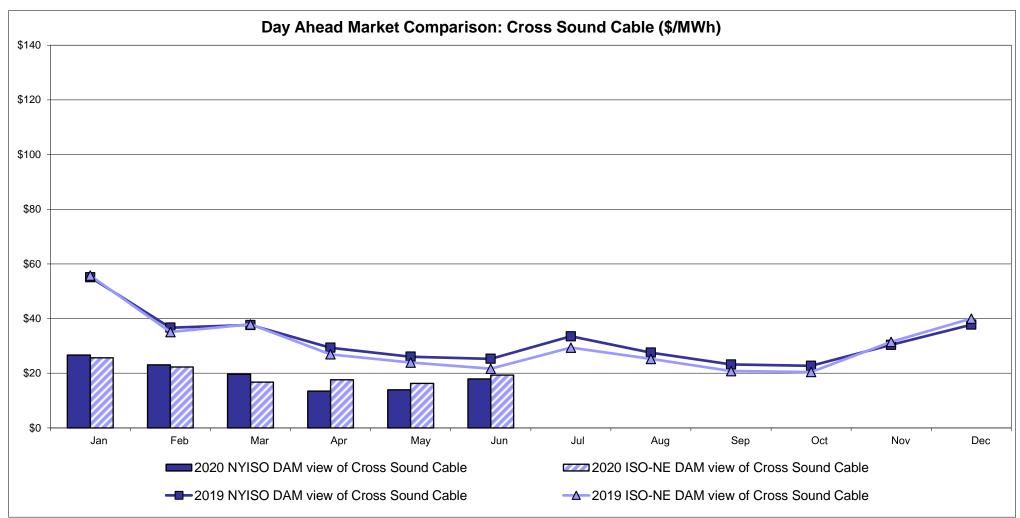
External Comparison Ontario IESO

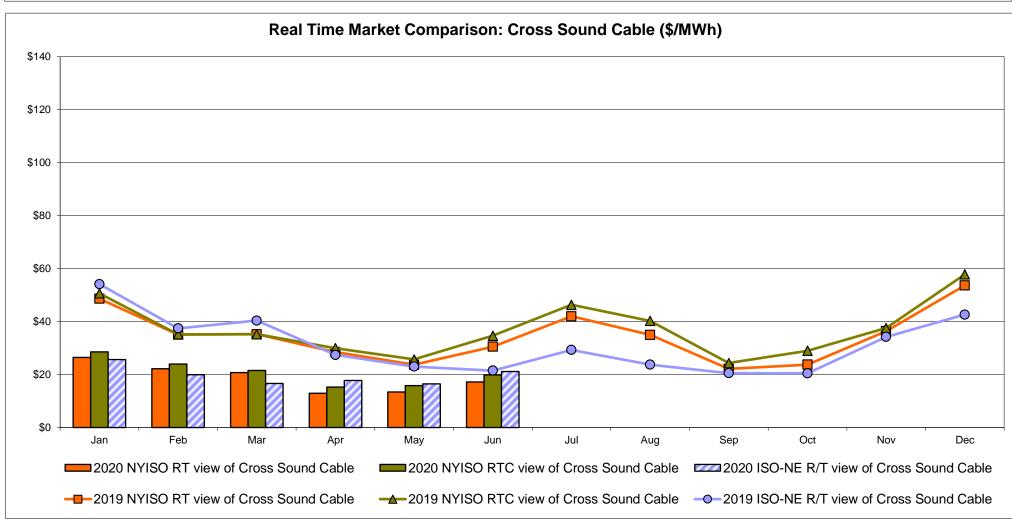


Notes: Exchange factor used for June 2020 was 1.3552 to US

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

External Controllable Line: Cross Sound Cable (New England)





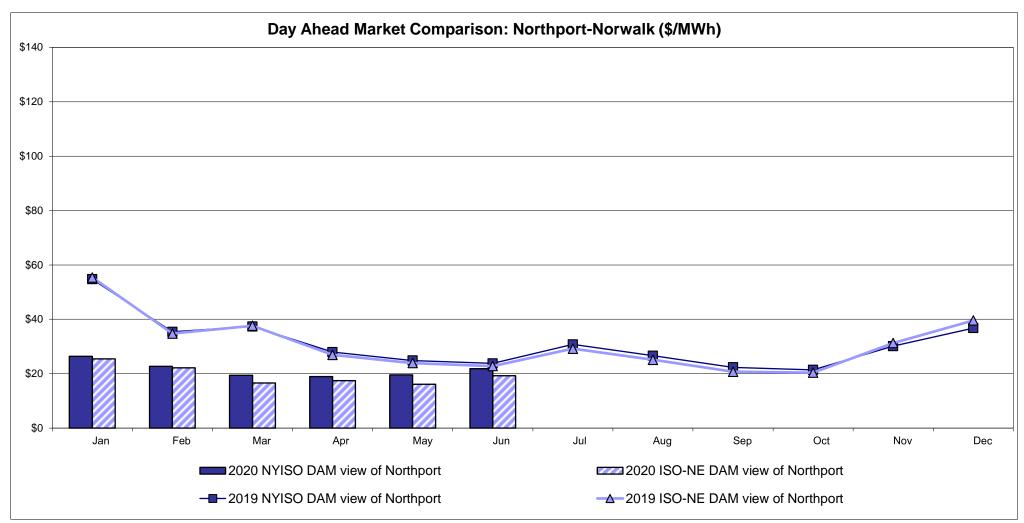
Note:

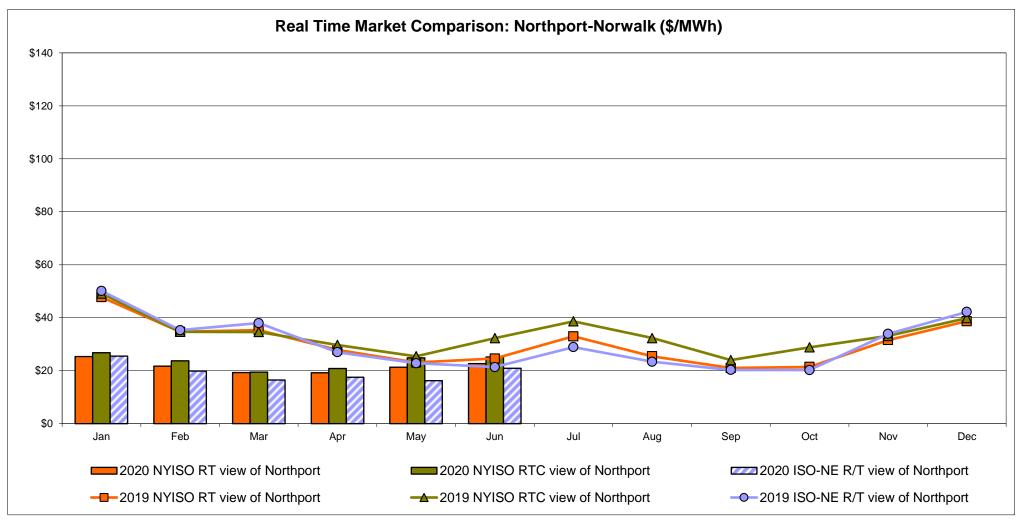
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Shorham 13899 interface are used for ISO-NE.

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

External Controllable Line: Northport - Norwalk (New England)





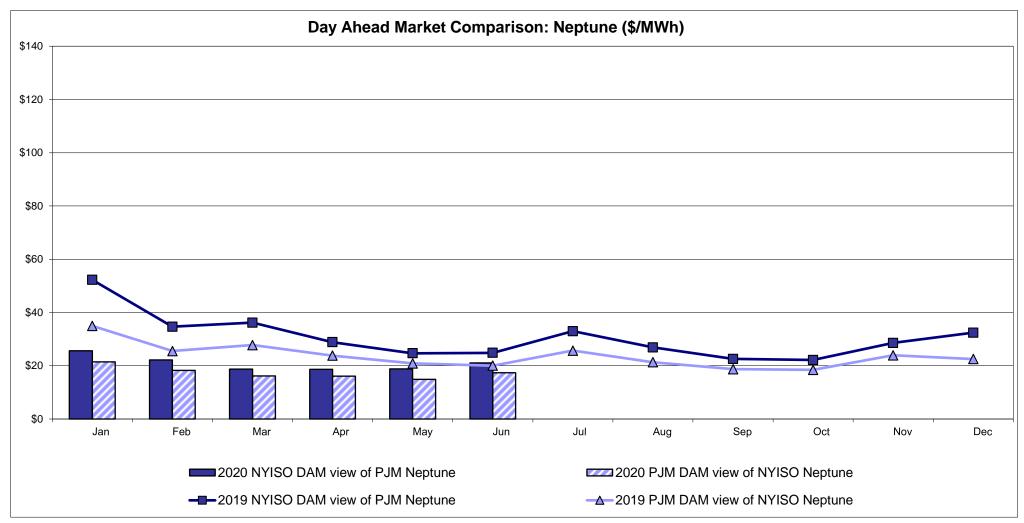
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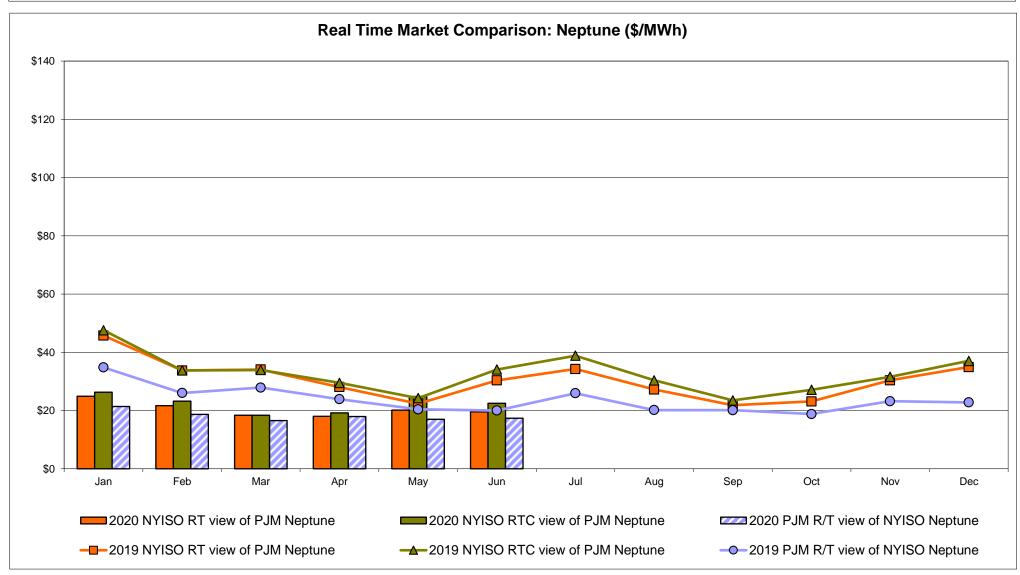
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

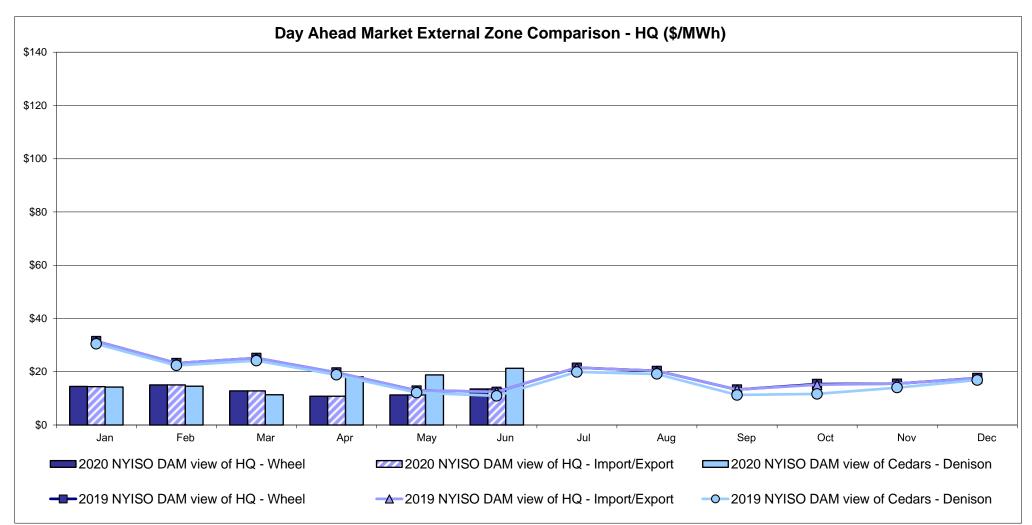
The DAM and R/T prices at the 1385 interface are used for NYISO.

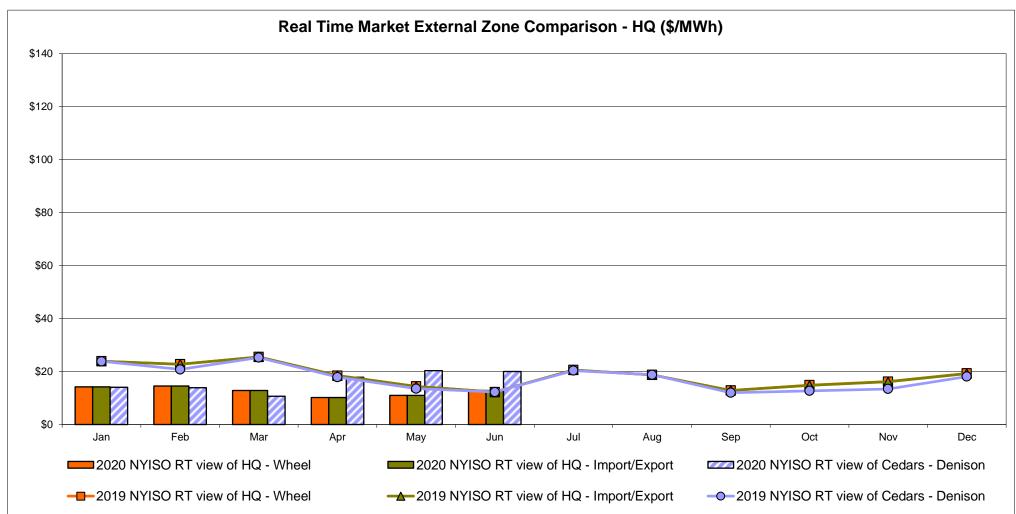
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

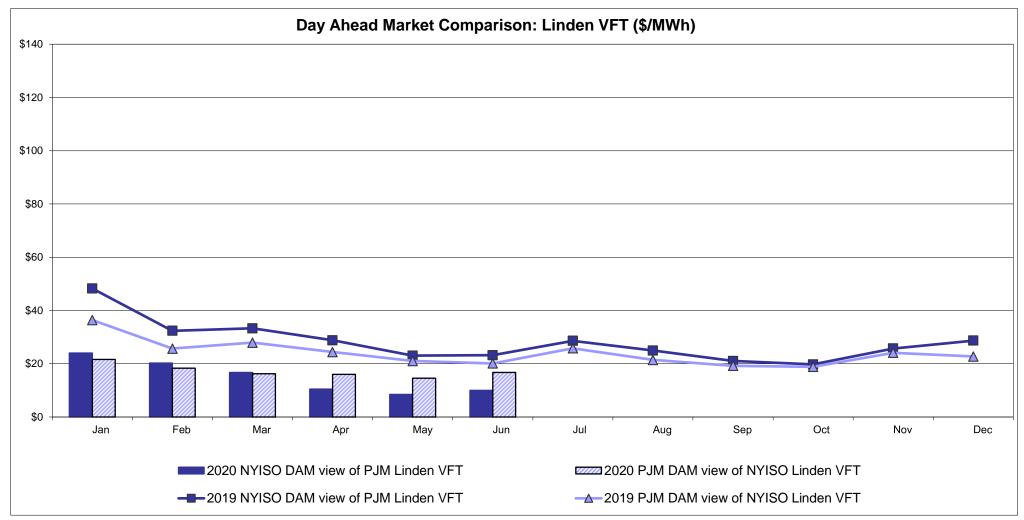


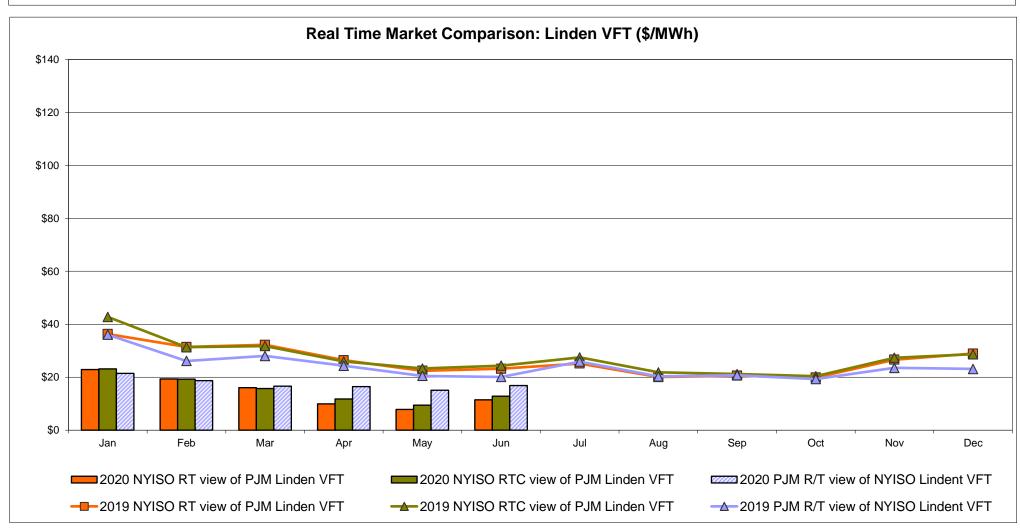


Note:

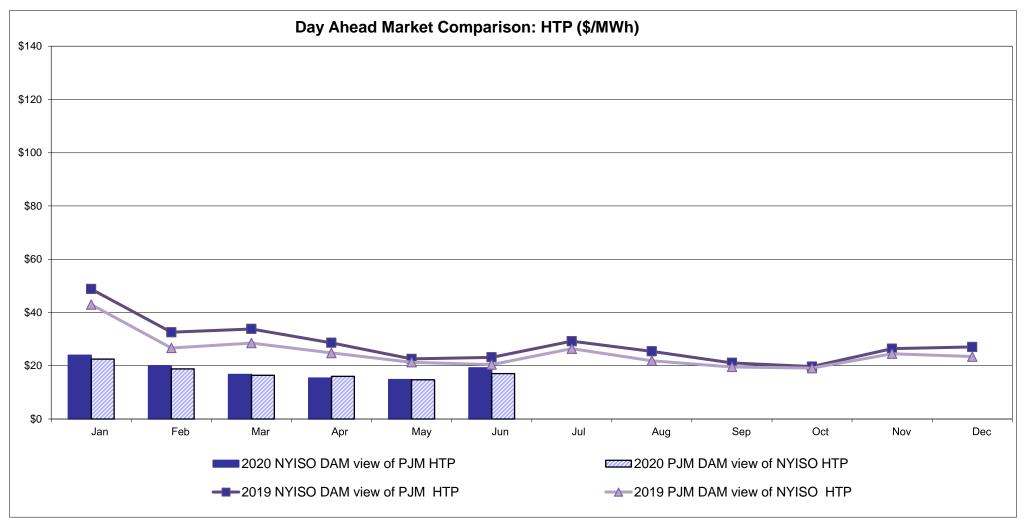
Hydro-Quebec Prices are unavailable.

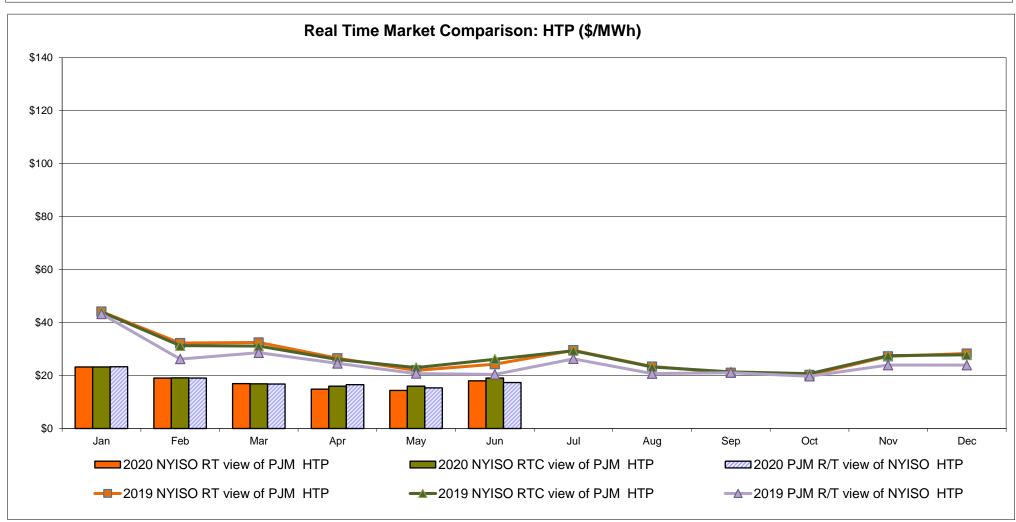
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)

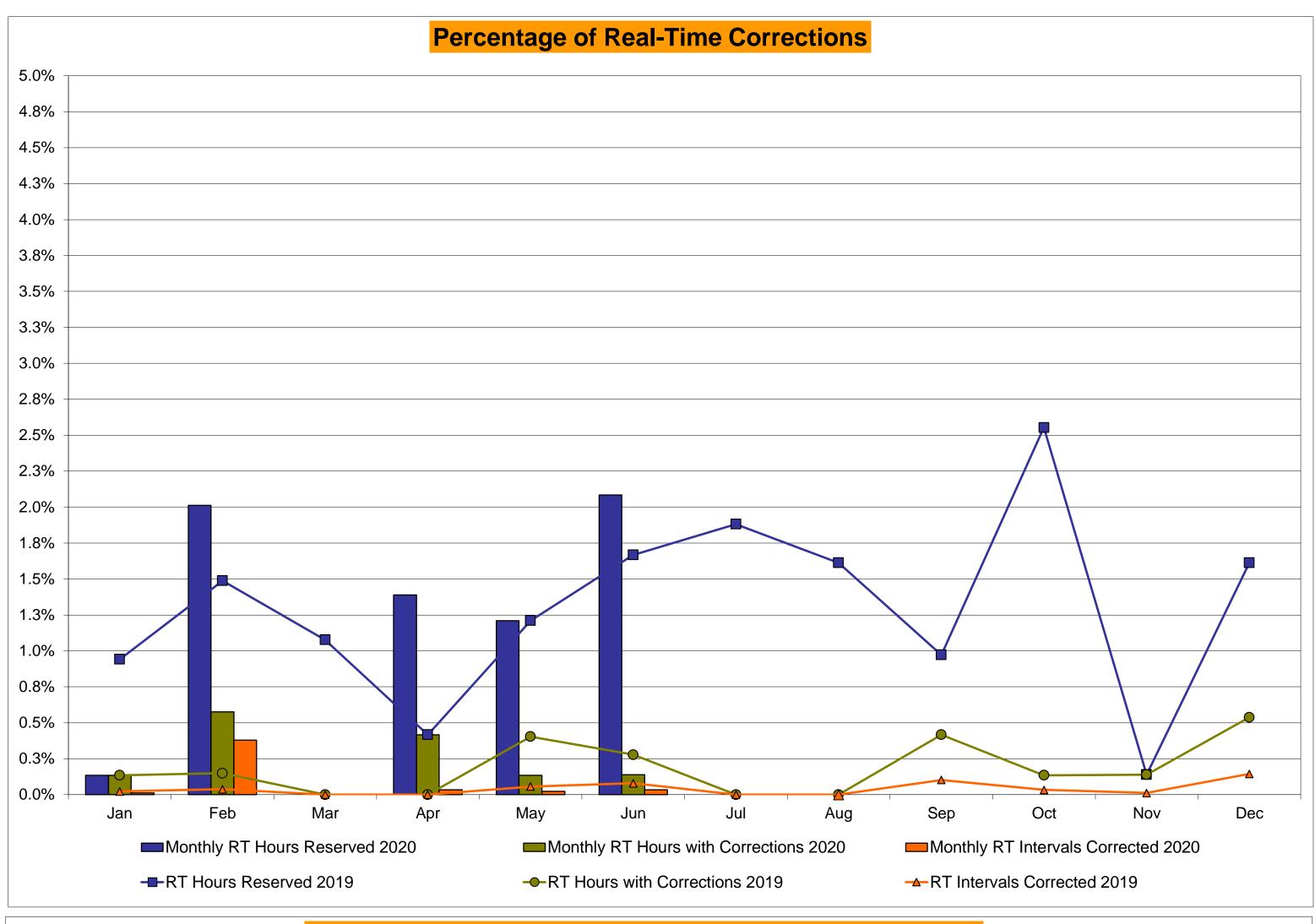


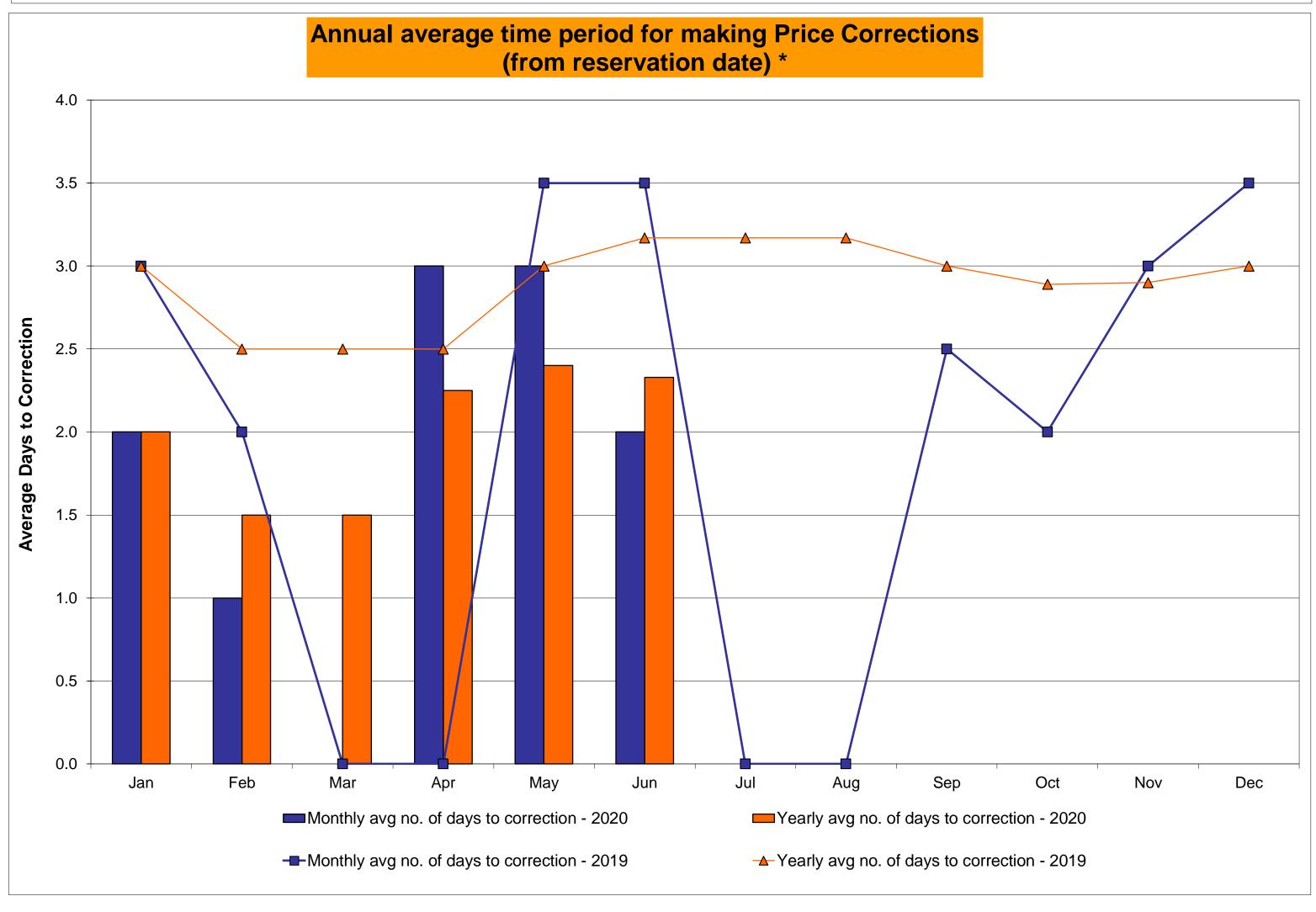


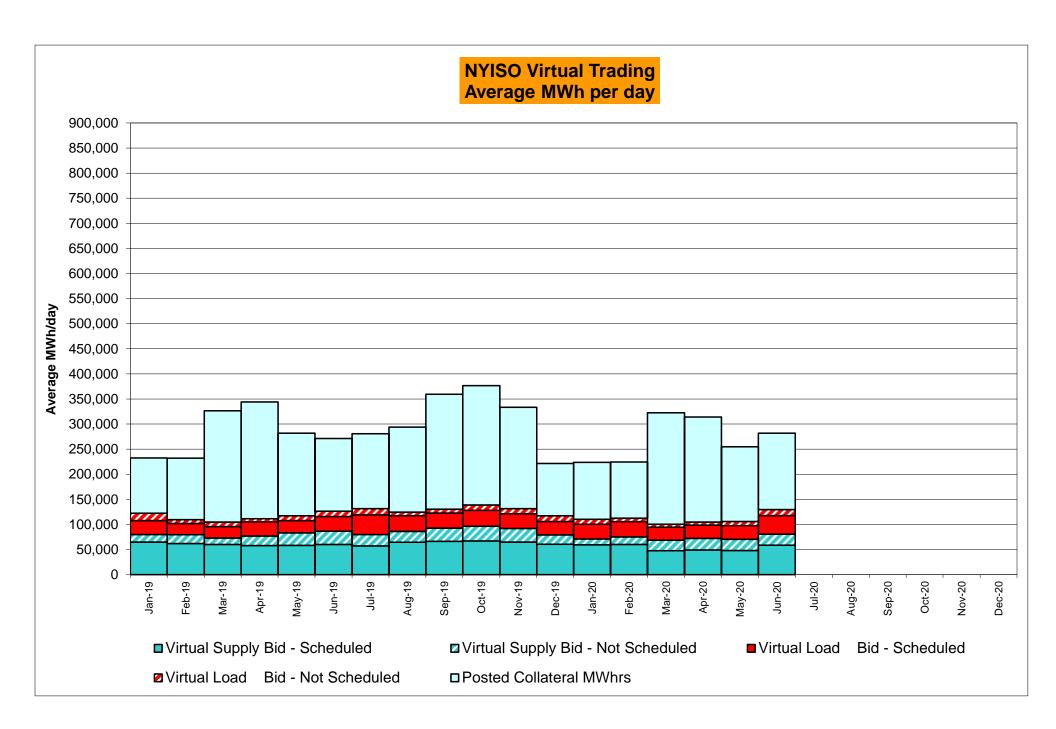
NYISO Real Time Price Correction Statistics

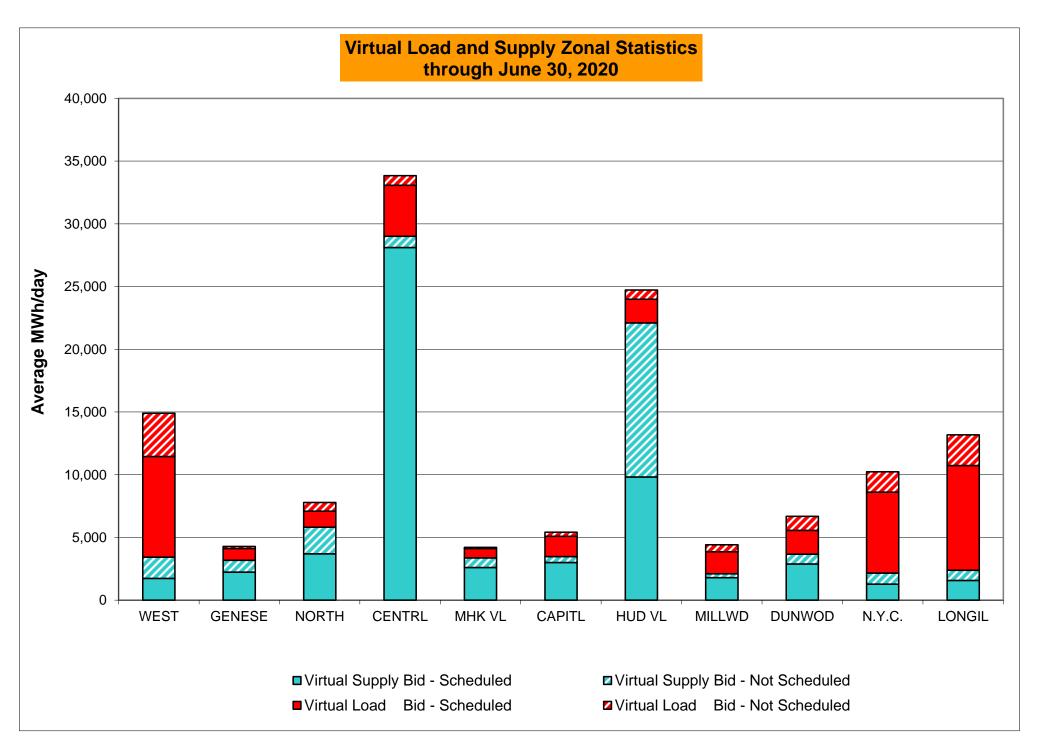
2020 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Number of hours with corrections	in the month	1	4	0	3	1	1						
Number of hours	in the month	744	696	743	720	744	720						
% of hours with corrections	in the month	0.13%	0.57%	0.00%	0.42%	0.13%	0.14%						
% of hours with corrections	year-to-date	0.13%	0.35%	0.23%	0.28%	0.25%	0.23%						
Interval Corrections													
Number of intervals corrected	in the month	1	32	0	3	2	3						
Number of intervals	in the month	9,088	8,460	9,011	8,776	9,030	8,826						
% of intervals corrected	in the month	0.01%	0.38%	0.00%	0.03%	0.02%	0.03%						
% of intervals corrected	year-to-date	0.01%	0.19%	0.12%	0.10%	0.09%	0.08%						
<u>Hours Reserved</u>													
Number of hours reserved	in the month	1	14	0	10	9	15						
Number of hours	in the month	744	696	743	720	744	720						
% of hours reserved	in the month	0.13%	2.01%	0.00%	1.39%	1.21%	2.08%						
% of hours reserved	year-to-date	0.13%	1.04%	0.69%	0.86%	0.93%	1.12%						
Days to Correction *													_
Avg. number of days to correction	in the month	2.00	1.00	0.00	3.00	3.00	2.00						
Avg. number of days to correction	year-to-date	2.00	1.50	1.50	2.25	2.40	2.33						
Days Without Corrections													
Days without corrections	in the month	30	28	31	28	30	29						
Days without corrections	year-to-date	30	58	89	117	147	176						
2019		January	February	March	April	Mav	June	Julv	August	September	October	November	December
2019 Hour Corrections		January	<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	December
Hour Corrections	in the month	<u>January</u> 1	February 1								October 1	November 1	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	1	1	0	0	3	2	0	0	3	1	1	4
Hour Corrections Number of hours with corrections Number of hours	in the month	1 744	1 672	0 743	0 720	3 744	2 720	0 744	0 744	3 720	1 744	 1 721	4 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	1 744 0.13%	1 672 0.15%	0 743 0.00%	0 720 0.00%	3 744 0.40%	2 720 0.28%	0 744 0.00%	0 744 0.00%	3 720 0.42%	1 744 0.13%	1 721 0.14%	4 744 0.54%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month	1 744	1 672	0 743	0 720	3 744	2 720	0 744	0 744	3 720	1 744	 1 721	4 744
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% 0.13%	1 672 0.15% 0.14%	0 743 0.00% 0.09%	0 720 0.00% 0.07%	3 744 0.40% 0.14%	2 720 0.28%	0 744 0.00% 0.14%	0 744 0.00% 0.12%	3 720 0.42% 0.15%	1 744 0.13% 0.15%	1 721 0.14%	4 744 0.54% 0.18%
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%	1 672 0.15% 0.14%	0 743 0.00% 0.09%	0 720 0.00% 0.07%	3 744 0.40% 0.14%	2 720 0.28% 0.16%	0 744 0.00% 0.14%	0 744 0.00% 0.12%	3 720 0.42% 0.15%	1 744 0.13% 0.15%	1 721 0.14% 0.15%	4 744 0.54% 0.18%
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% 2 9,071	1 672 0.15% 0.14%	0 743 0.00% 0.09% 0 9,008	0 720 0.00% 0.07% 0 8,750	3 744 0.40% 0.14% 5 9,033	2 720 0.28% 0.16% 7 8,863	0 744 0.00% 0.14% 0 9,243	0 744 0.00% 0.12% 0 9,048	3 720 0.42% 0.15% 9 8,820	1 744 0.13% 0.15% 3 9,087	1 721 0.14% 0.15% 1 8,788	4 744 0.54% 0.18% 13 9,021
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month	1 744 0.13% 0.13% 2 9,071 0.02%	1 672 0.15% 0.14% 3 8,131 0.04%	0 743 0.00% 0.09% 0 9,008 0.00%	0 720 0.00% 0.07% 0 8,750 0.00%	3 744 0.40% 0.14% 5 9,033 0.06%	2 720 0.28% 0.16% 7 8,863 0.08%	0 744 0.00% 0.14% 0 9,243 0.00%	0 744 0.00% 0.12% 0 9,048 0.00%	3 720 0.42% 0.15% 9 8,820 0.10%	1 744 0.13% 0.15% 3 9,087 0.03%	1 721 0.14% 0.15% 1 8,788 0.01%	4 744 0.54% 0.18% 13 9,021 0.14%
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% 2 9,071	1 672 0.15% 0.14%	0 743 0.00% 0.09% 0 9,008	0 720 0.00% 0.07% 0 8,750	3 744 0.40% 0.14% 5 9,033	2 720 0.28% 0.16% 7 8,863	0 744 0.00% 0.14% 0 9,243	0 744 0.00% 0.12% 0 9,048	3 720 0.42% 0.15% 9 8,820	1 744 0.13% 0.15% 3 9,087	1 721 0.14% 0.15% 1 8,788	4 744 0.54% 0.18% 13 9,021
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% 2 9,071 0.02% 0.02%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03%	1 721 0.14% 0.15% 1 8,788 0.01%	4 744 0.54% 0.18% 13 9,021 0.14% 0.04%
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 Wors 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% 2 9,071 0.02% 0.02%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03%	4 744 0.54% 0.18% 13 9,021 0.14% 0.04%
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% 2 9,071 0.02% 0.02%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03%	4 744 0.54% 0.18% 13 9,021 0.14% 0.04%
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 Wors 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% 2 9,071 0.02% 0.02%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03%	4 744 0.54% 0.18% 13 9,021 0.14% 0.04%
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 Wors 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% 2 9,071 0.02% 0.02%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03%	4 744 0.54% 0.18% 13 9,021 0.14% 0.04%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	1 744 0.13% 0.13% 2 9,071 0.02% 0.02% 7 744 0.94%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 19 744 2.55%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14% 1.27%	4 744 0.54% 0.18% 13 9,021 0.14% 0.04% 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 Wors 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	1 744 0.13% 0.13% 2 9,071 0.02% 0.02% 7 744 0.94%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 19 744 2.55%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14%	4 744 0.54% 0.18% 13 9,021 0.14% 0.04% 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 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% 2 9,071 0.02% 0.02% 7 744 0.94% 0.94%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49% 1.20%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08% 1.16%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42% 0.97%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21% 1.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67% 1.13%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88% 1.24%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61% 1.29%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97% 1.25%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 19 744 2.55% 1.38%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14% 1.27%	4 744 0.54% 0.18% 13 9,021 0.14% 0.04% 12 744 1.61% 1.30%
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 Wo of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction * Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	1 744 0.13% 0.13% 2 9,071 0.02% 0.02% 7 744 0.94% 0.94% 0.94%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49% 1.20%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08% 1.16%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42% 0.97%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21% 1.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67% 1.13% 3.50	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88% 1.24%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61% 1.29%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97% 1.25%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 19 744 2.55% 1.38%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14% 1.27% 3.00	4 744 0.54% 0.18% 13 9,021 0.14% 0.04% 12 744 1.61% 1.30%
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% 2 9,071 0.02% 0.02% 7 744 0.94% 0.94% 0.94%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49% 1.20%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08% 1.16%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42% 0.97%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21% 1.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67% 1.13% 3.50	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88% 1.24%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61% 1.29%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97% 1.25%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 19 744 2.55% 1.38%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14% 1.27% 3.00	4 744 0.54% 0.18% 13 9,021 0.14% 0.04% 12 744 1.61% 1.30%

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









Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2020 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** 984 Jan-20 7,809 1,328 1,765 Jan-20 747 77 2,155 793 Jan-20 1,120 241 3,191 370 Feb-20 8,213 1,248 2,597 947 Feb-20 724 88 2,339 504 Feb-20 536 298 3,782 368 Mar-20 9,155 1,778 1,637 1,236 Mar-20 481 97 2,455 542 Mar-20 766 109 3,143 282 10,056 2,032 1,542 1,018 577 86 2,599 888 423 2,336 504 Apr-20 Apr-20 Apr-20 1,185 2,105 70 2,373 323 May-20 7,943 3,322 3,397 May-20 586 1,878 287 May-20 1,114 196 Jun-20 8,014 3,448 1,729 1,706 Jun-20 746 100 2,597 770 Jun-20 1,893 1,124 2,881 789 Jul-20 Jul-20 Jul-20 Aug-20 Aug-20 Aug-20 Sep-20 Sep-20 Sep-20 Oct-20 Oct-20 Oct-20 Nov-20 Nov-20 Nov-20 Dec-20 Dec-20 Dec-20 GENESE 995 CAPITL N.Y.C. Jan-20 553 131 1,749 Jan-20 1,772 539 3,324 1,235 Jan-20 6,699 2,678 2,148 1,639 Feb-20 534 79 2.082 640 Feb-20 2.046 418 3.149 673 Feb-20 9.452 1.841 1.316 1.894 Mar-20 397 46 2,294 550 Mar-20 443 837 Mar-20 2,571 1,446 3,181 4,317 1,126 1,676 Apr-20 422 42 2,940 622 Apr-20 2,367 825 928 Apr-20 1,864 2,269 3,335 2,089 546 May-20 356 47 2,051 618 May-20 1,982 151 2,597 541 May-20 2,759 548 1,692 1,049 949 163 2,238 472 1,273 Jun-20 939 Jun-20 1.622 328 2,994 Jun-20 6,448 1,621 889 Jul-20 Jul-20 Jul-20 Aug-20 Aug-20 Aug-20 Sep-20 Sep-20 Sep-20 Oct-20 Oct-20 Oct-20 Nov-20 Nov-20 Nov-20 Dec-20 Dec-20 Dec-20 NORTH 5,038 HUD VL LONGIL Jan-20 811 206 1,765 Jan-20 891 1,274 7,573 2,206 Jan-20 5,640 2,824 2.246 1,109 Feb-20 402 276 Feb-20 886 Feb-20 1,683 1,678 1,217 5,144 2,014 722 8,517 5,838 4,795 Mar-20 335 293 5,075 2,315 Mar-20 944 634 6,811 10,029 Mar-20 5,402 1,429 1,602 1,683 5,033 321 210 1,001 12,414 1,036 1,620 Apr-20 5,153 2,057 Apr-20 813 5,955 Apr-20 1,672 2,305 381 3,547 1,757 1,088 5,998 12,839 5.948 2,125 1,844 1,045 May-20 May-20 806 May-20 1,277 2,128 12,284 Jun-20 696 3,692 Jun-20 1,877 745 9,825 Jun-20 8,361 2,434 1,568 809 Jul-20 Jul-20 Jul-20 Aug-20 Aug-20 Aug-20 Sep-20 Sep-20 Sep-20 Oct-20 Oct-20 Oct-20 Nov-20 Nov-20 Nov-20 Dec-20 Dec-20 Dec-20 CENTRL Jan-20 3,050 214 28,503 541 MILLWD Jan-20 270 68 1,646 213 **NYISO** Jan-20 29,361 9,580 59,340 11,849 Feb-20 2,567 118 27,919 487 Feb-20 281 68 1,811 229 Feb-20 30,434 6,838 60,334 14,81 Mar-20 2,340 113 17,986 481 Mar-20 494 19 1,844 174 Mar-20 26,077 6,087 47,704 20,700 131 20,490 491 563 55 90 49.344 22,953 Apr-20 2.568 Apr-20 1,510 Apr-20 26,181 6,200 May-20 May-20 2,736 296 22,414 414 502 198 1,442 76 May-20 27,319 8,140 47,941 22,346 Jun-20 4,053 770 28,114 903 Jun-20 1,756 558 1,789 312 Jun-20 36,995 11,988 58,701 22,003 Jul-20 Jul-20 Jul-20 Aug-20 Aug-20 Aug-20 Sep-20 Sep-20 Sep-20 Oct-20 Oct-20 Oct-20

Nov-20

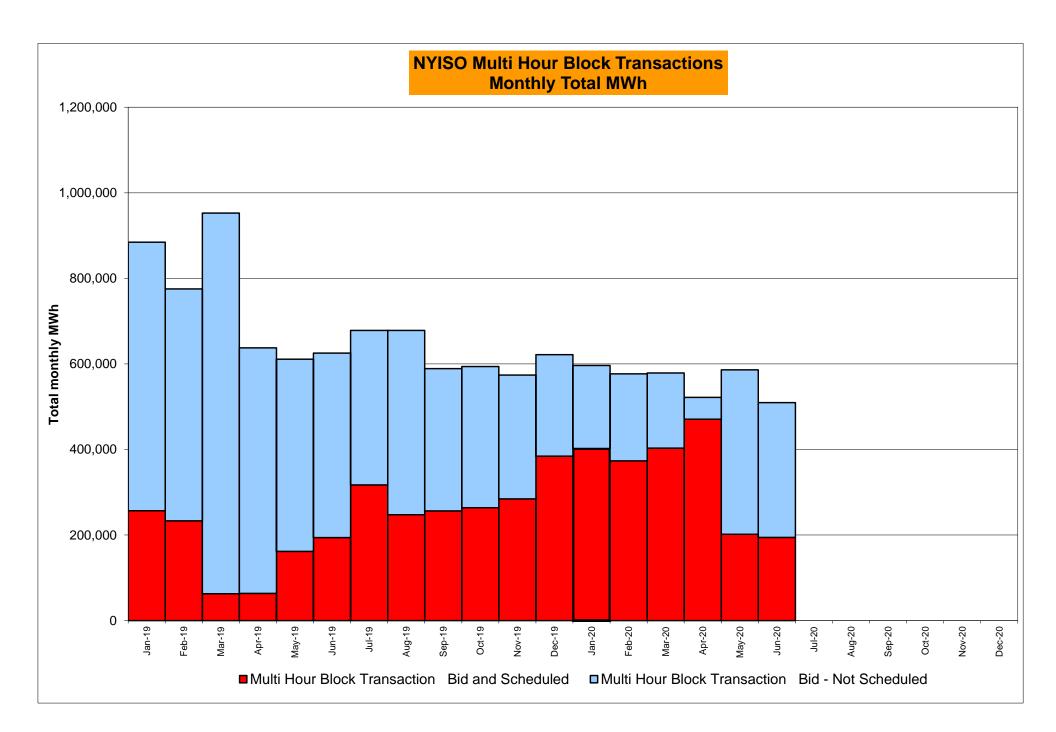
Dec-20

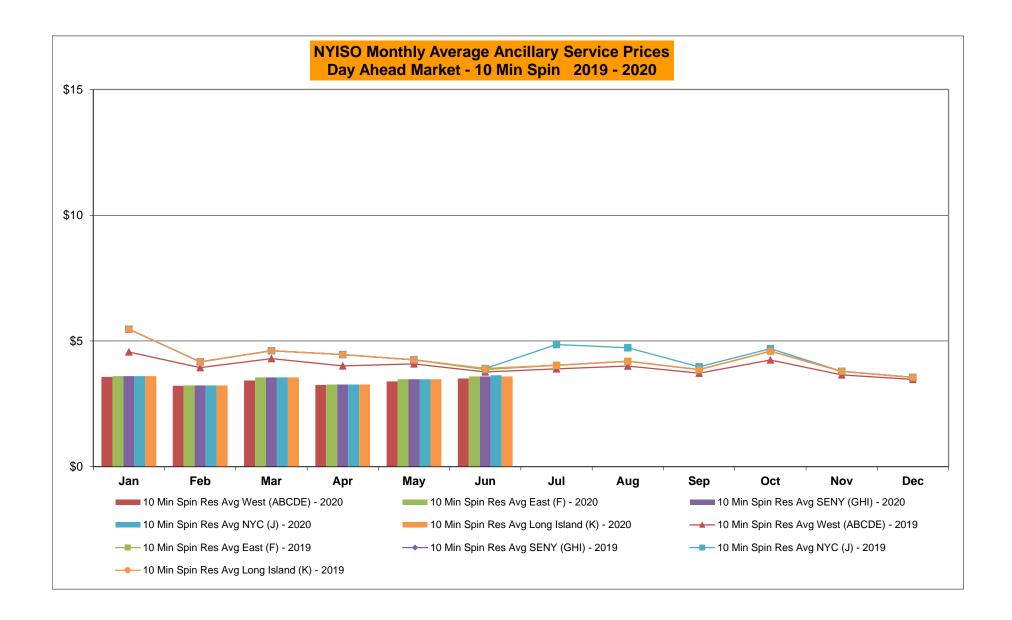
Nov-20

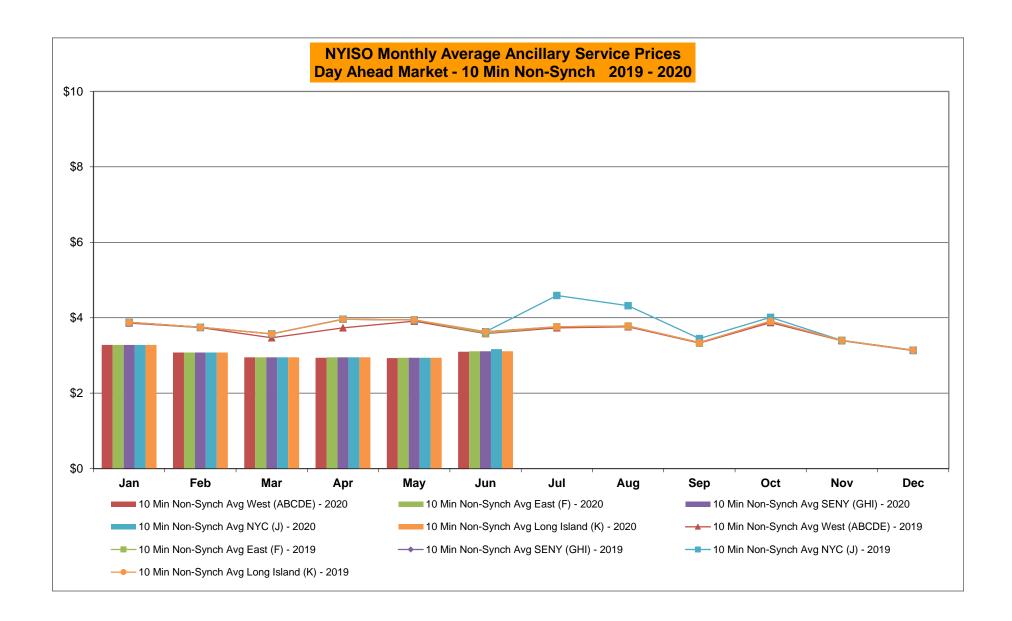
Dec-20

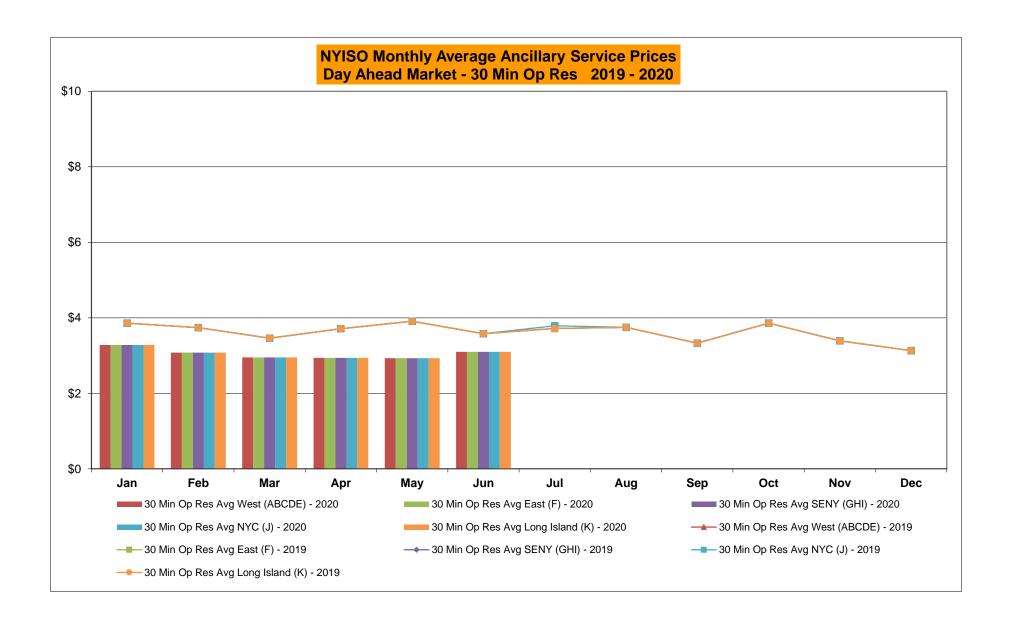
Nov-20

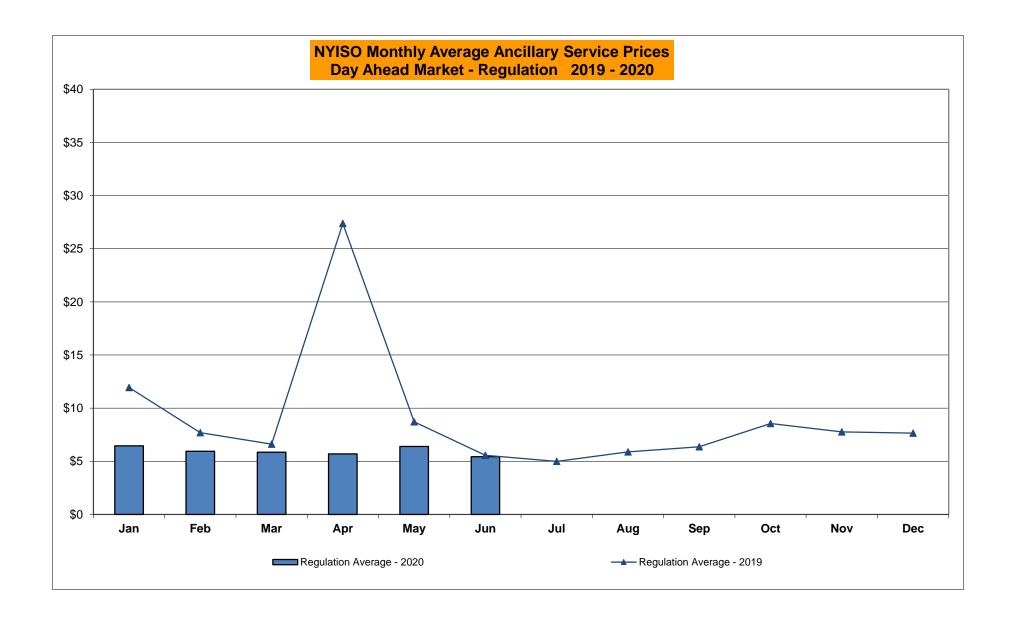
Dec-20

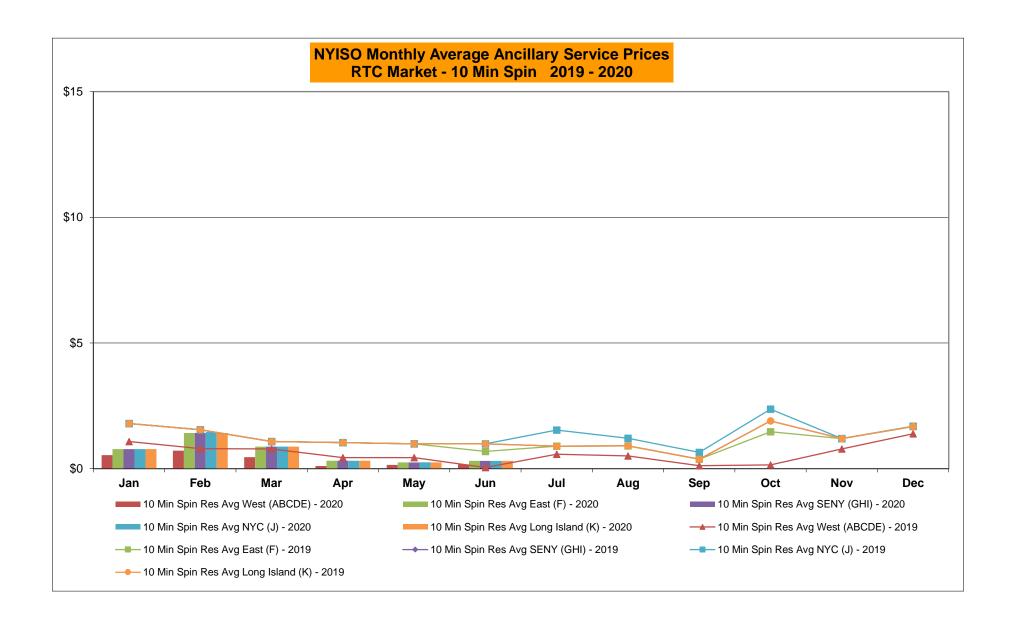


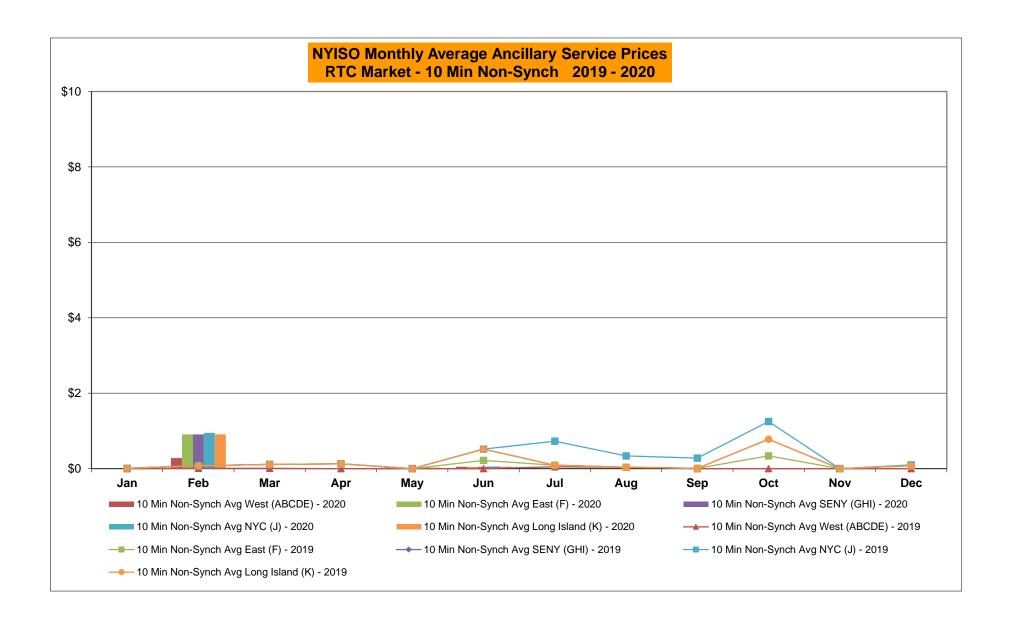


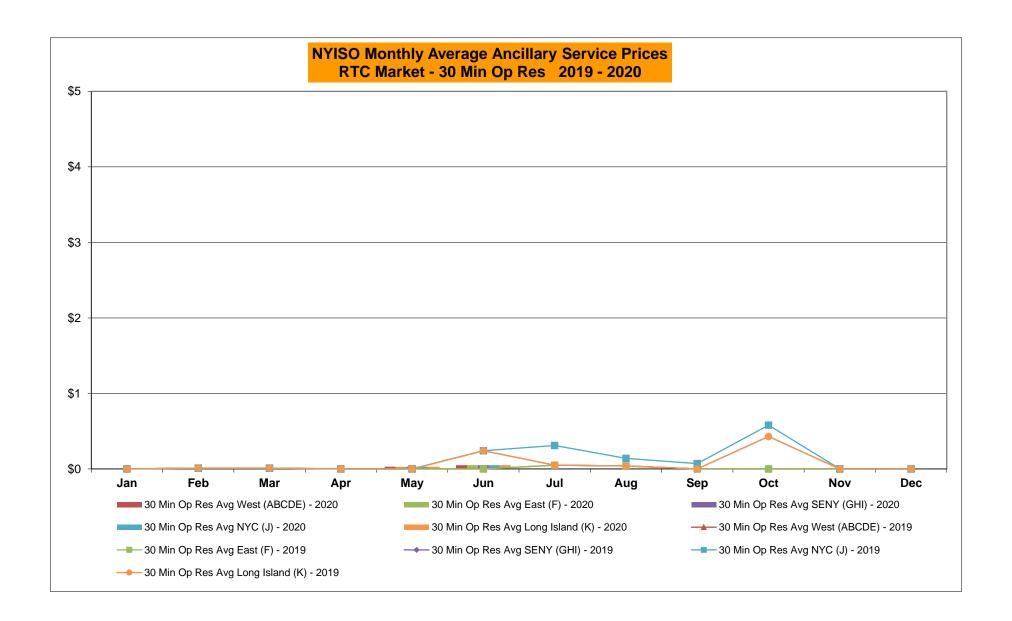


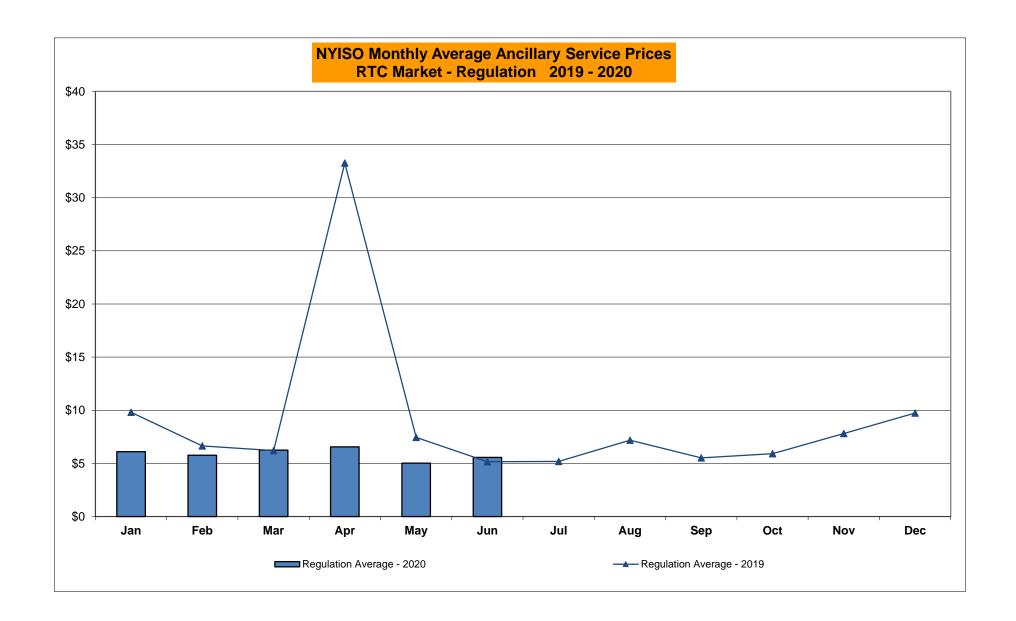


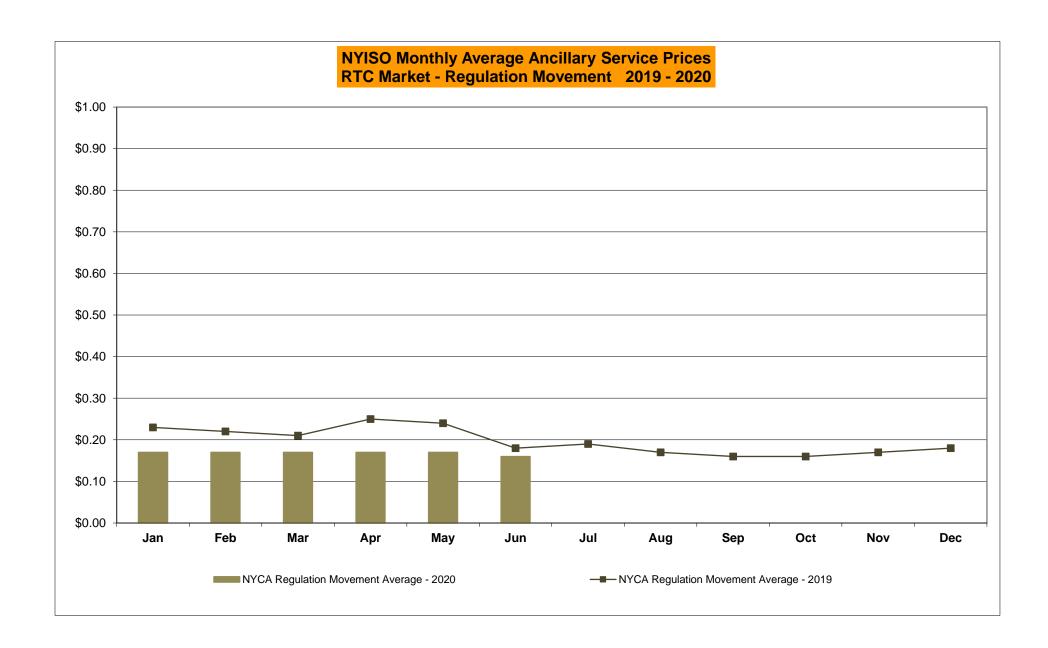


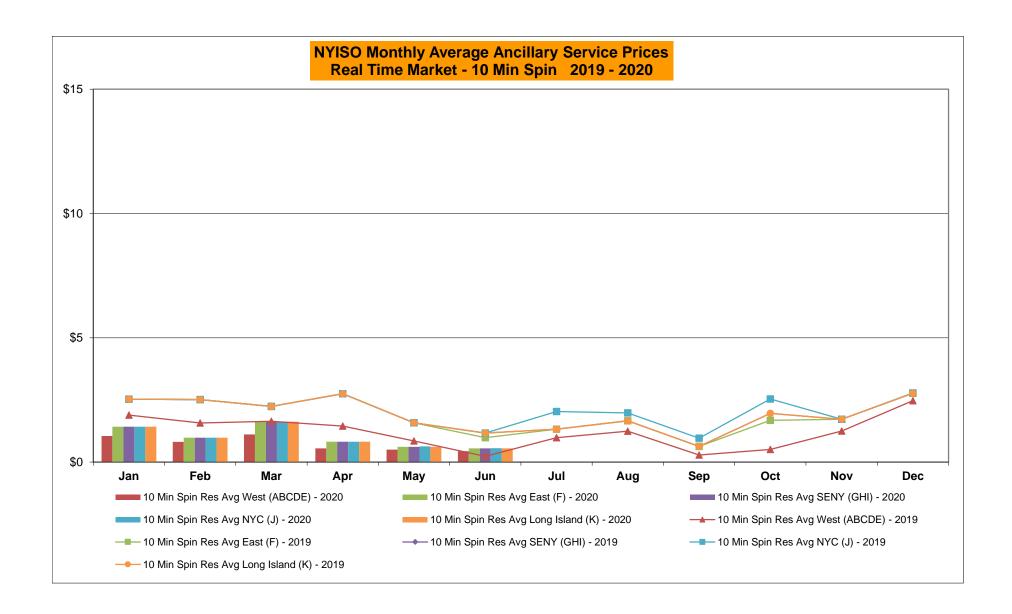


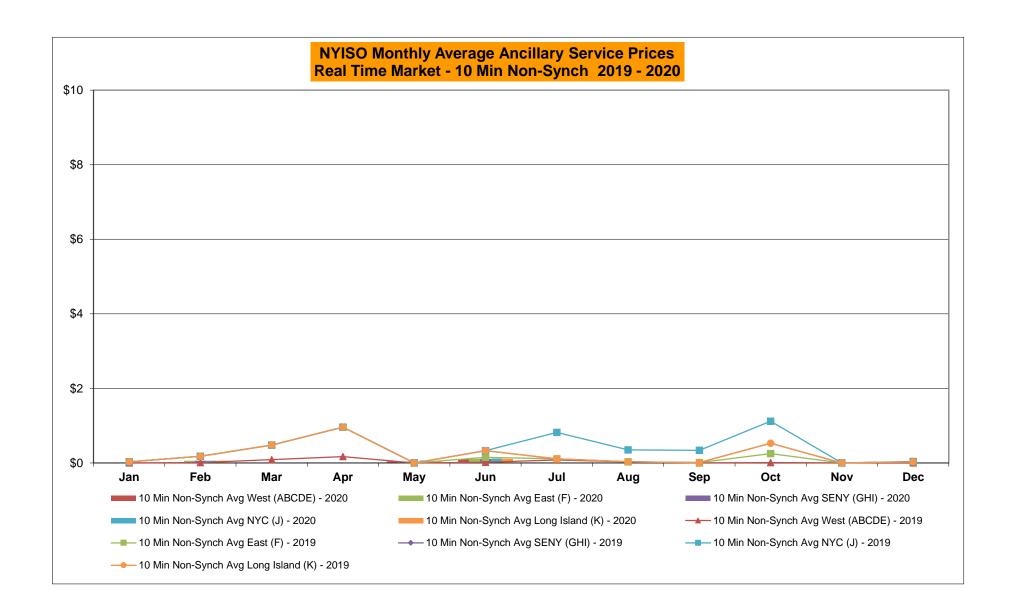


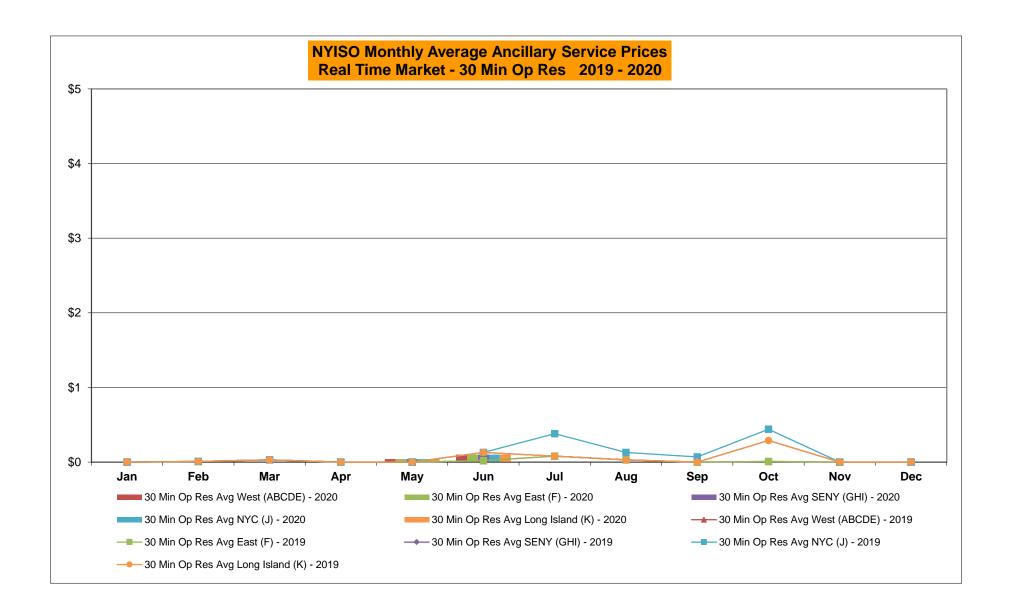


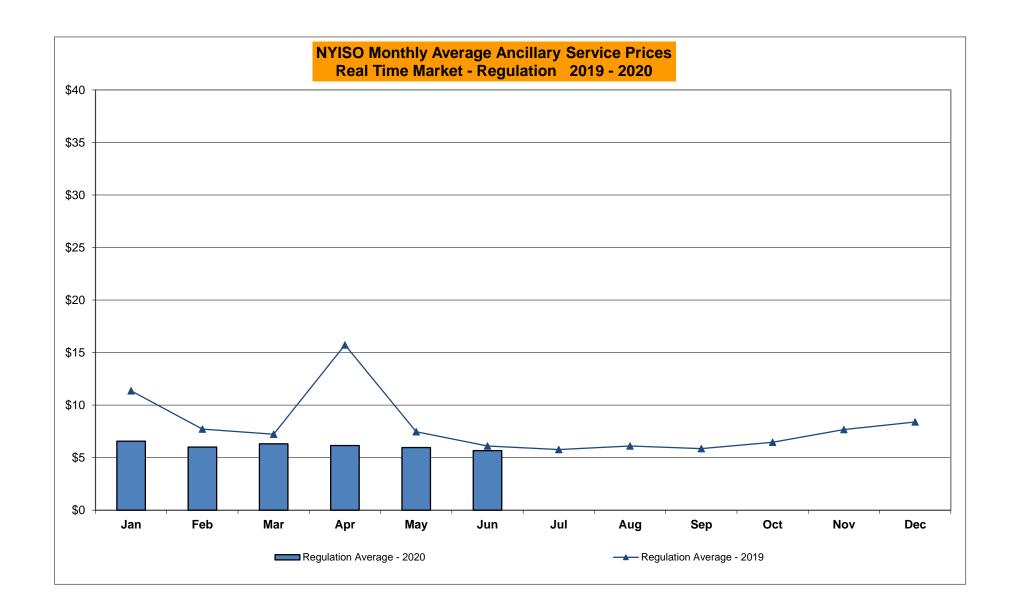


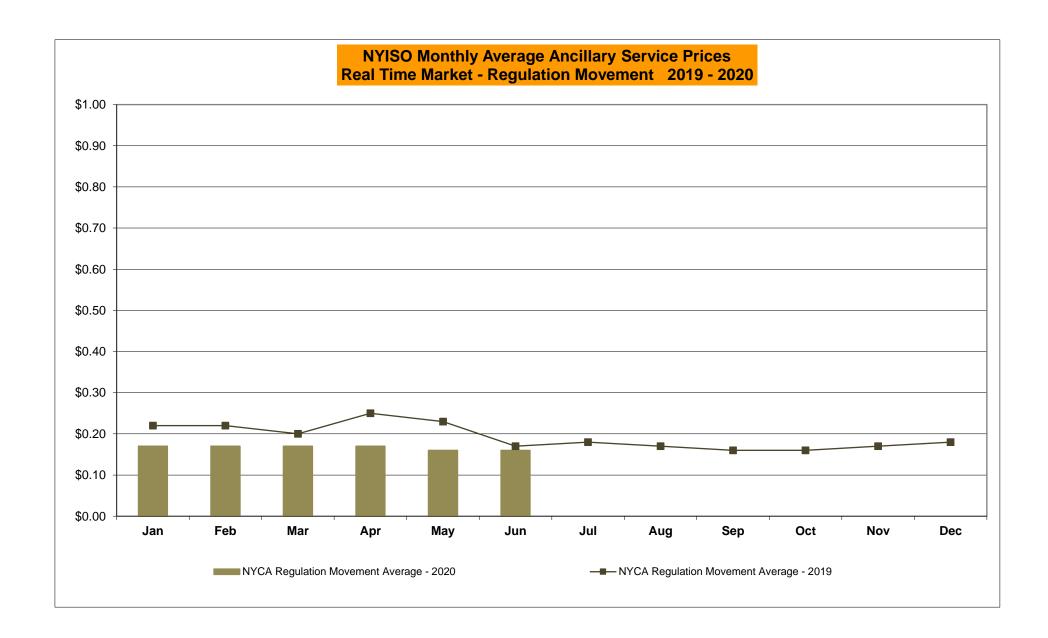












NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - DAM

2020	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market	0.00	0.00	0.55	0.07	0.40	0.50						
10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27	3.48	3.59						
10 Min Spin NYC (J)	3.60	3.23	3.55	3.27	3.48	3.64						
10 Min Spin SENY (GHI)	3.60	3.23	3.55	3.27	3.48	3.59						
10 Min Spin East (F)	3.60	3.23	3.55	3.27	3.48	3.59						
10 Min Spin West (ABCDE)	3.57	3.22	3.43	3.25	3.39	3.51						
10 Min Non Synch Long Island (K)	3.28	3.08	2.95	2.95	2.94	3.11						
10 Min Non Synch NYC (J)	3.28	3.08	2.95	2.95	2.94	3.17						
10 Min Non Synch SENY (GHI)	3.28	3.08	2.95	2.95	2.94	3.11						
10 Min Non Synch East (F)	3.28	3.08	2.95	2.95	2.94	3.11						
10 Min Non Synch West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10						
30 Min Long Island (K)	3.28	3.08	2.95	2.94	2.93	3.10						
30 Min NYC (J)	3.28	3.08	2.95	2.94	2.93	3.10						
30 Min SENY (GHI)	3.28	3.08	2.95	2.94	2.93	3.10						
30 Min East (F)	3.28	3.08	2.95	2.94	2.93	3.10						
30 Min West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10						
Regulation	6.46	5.94	5.86	5.70	6.40	5.44						
<u>2019</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	•	- -										<u>December</u>
	<u>January</u> 5.47	5.47	<u>March</u> 4.61	<u>April</u> 4.46	<u>May</u> 4.25	<u>June</u> 4.25	<u>July</u> 4.03	August 4.19	September 3.86	October 4.59	November 3.79	December 3.55
Day Ahead Market	•	- -										
Day Ahead Market 10 Min Spin Long Island (K)	5.47 5.47 5.47	5.47 5.47 4.17	4.61	4.46	4.25	4.25	4.03	4.19	3.86	4.59	3.79	3.55
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J)	5.47 5.47	5.47 5.47	4.61 4.61	4.46 4.46	4.25 4.25	4.25 4.25	4.03 4.86	4.19 4.73	3.86 3.97	4.59 4.69	3.79 3.79	3.55 3.55
Day Ahead Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI)	5.47 5.47 5.47	5.47 5.47 4.17	4.61 4.61 4.61	4.46 4.46 4.46	4.25 4.25 4.25	4.25 4.25 3.90	4.03 4.86 4.03	4.19 4.73 4.19	3.86 3.97 3.86	4.59 4.69 4.59	3.79 3.79 3.79	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)	5.47 5.47 5.47 5.47	5.47 5.47 4.17 4.17	4.61 4.61 4.61 4.61	4.46 4.46 4.46 4.46	4.25 4.25 4.25 4.25	4.25 4.25 3.90 3.86	4.03 4.86 4.03 4.03	4.19 4.73 4.19 4.19	3.86 3.97 3.86 3.86	4.59 4.69 4.59 4.59	3.79 3.79 3.79 3.79	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)	5.47 5.47 5.47 5.47 4.56	5.47 5.47 4.17 4.17 3.94	4.61 4.61 4.61 4.61 4.30	4.46 4.46 4.46 4.46 4.01	4.25 4.25 4.25 4.25 4.09	4.25 4.25 3.90 3.86 3.77	4.03 4.86 4.03 4.03 3.89	4.19 4.73 4.19 4.19 4.00	3.86 3.97 3.86 3.86 3.72	4.59 4.69 4.59 4.59 4.24	3.79 3.79 3.79 3.79 3.65	3.55 3.55 3.55 3.55 3.47
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)	5.47 5.47 5.47 5.47 4.56 3.88	5.47 5.47 4.17 4.17 3.94 3.88	4.61 4.61 4.61 4.61 4.30 3.57	4.46 4.46 4.46 4.01 3.96	4.25 4.25 4.25 4.25 4.09 3.94	4.25 4.25 3.90 3.86 3.77 3.94	4.03 4.86 4.03 4.03 3.89 3.76	4.19 4.73 4.19 4.19 4.00 3.78	3.86 3.97 3.86 3.86 3.72 3.34	4.59 4.69 4.59 4.59 4.24 3.91	3.79 3.79 3.79 3.79 3.65 3.40	3.55 3.55 3.55 3.55 3.47 3.14
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)	5.47 5.47 5.47 5.47 4.56 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.88	4.61 4.61 4.61 4.30 3.57 3.57	4.46 4.46 4.46 4.01 3.96 3.96	4.25 4.25 4.25 4.25 4.09 3.94 3.94	4.25 4.25 3.90 3.86 3.77 3.94 3.94	4.03 4.86 4.03 4.03 3.89 3.76 4.59	4.19 4.73 4.19 4.19 4.00 3.78 4.32	3.86 3.97 3.86 3.86 3.72 3.34 3.45	4.59 4.69 4.59 4.59 4.24 3.91 4.01	3.79 3.79 3.79 3.79 3.65 3.40 3.40	3.55 3.55 3.55 3.55 3.47 3.14 3.14
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)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.88 3.75	4.61 4.61 4.61 4.30 3.57 3.57	4.46 4.46 4.46 4.01 3.96 3.96 3.96	4.25 4.25 4.25 4.25 4.09 3.94 3.94 3.94	4.25 4.25 3.90 3.86 3.77 3.94 3.94 3.63	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91	3.79 3.79 3.79 3.65 3.40 3.40 3.40	3.55 3.55 3.55 3.55 3.47 3.14 3.14
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)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75	4.61 4.61 4.61 4.61 4.30 3.57 3.57 3.57	4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.96	4.25 4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.94	4.25 4.25 3.90 3.86 3.77 3.94 3.94 3.63 3.59	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.91	3.79 3.79 3.79 3.65 3.40 3.40 3.40	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14
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)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.88 3.75 3.75 3.75	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.57 3.47	4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73	4.25 4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.94 3.91	4.25 4.25 3.90 3.86 3.77 3.94 3.94 3.63 3.59 3.58	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.73	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.76	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34 3.34 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.91 3.87	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.14 3.13
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)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75 3.74 3.86	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.57 3.47 3.46	4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73 3.71	4.25 4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.94 3.91 3.91	4.25 4.25 3.90 3.86 3.77 3.94 3.94 3.63 3.59 3.58 3.91	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.73 3.72	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.76 3.75	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34 3.34 3.33 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.91 3.87 3.86	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.14 3.13
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)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88 3.86 3.86 3.86	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75 3.74 3.86 3.86	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.47 3.46 3.46	4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73 3.71 3.71	4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.91 3.91 3.91	4.25 4.25 3.90 3.86 3.77 3.94 3.94 3.63 3.59 3.58 3.91 3.91	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.73 3.72 3.79	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.76 3.75 3.75	3.86 3.97 3.86 3.72 3.34 3.45 3.34 3.34 3.33 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.87 3.86 3.86	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39 3.39 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.13 3.13
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) 30 Min SENY (GHI)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88 3.86 3.86 3.86	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75 3.75 3.74 3.86 3.86 3.74	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.47 3.46 3.46 3.46	4.46 4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73 3.71 3.71 3.71	4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.91 3.91 3.91 3.91	4.25 4.25 3.90 3.86 3.77 3.94 3.94 3.63 3.59 3.58 3.91 3.91 3.58	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.72 3.79 3.72	4.19 4.73 4.19 4.00 3.78 4.32 3.78 3.78 3.75 3.75 3.75	3.86 3.97 3.86 3.72 3.34 3.45 3.34 3.34 3.33 3.33 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.81 3.86 3.86 3.86	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39 3.39 3.39 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.13 3.13 3.13

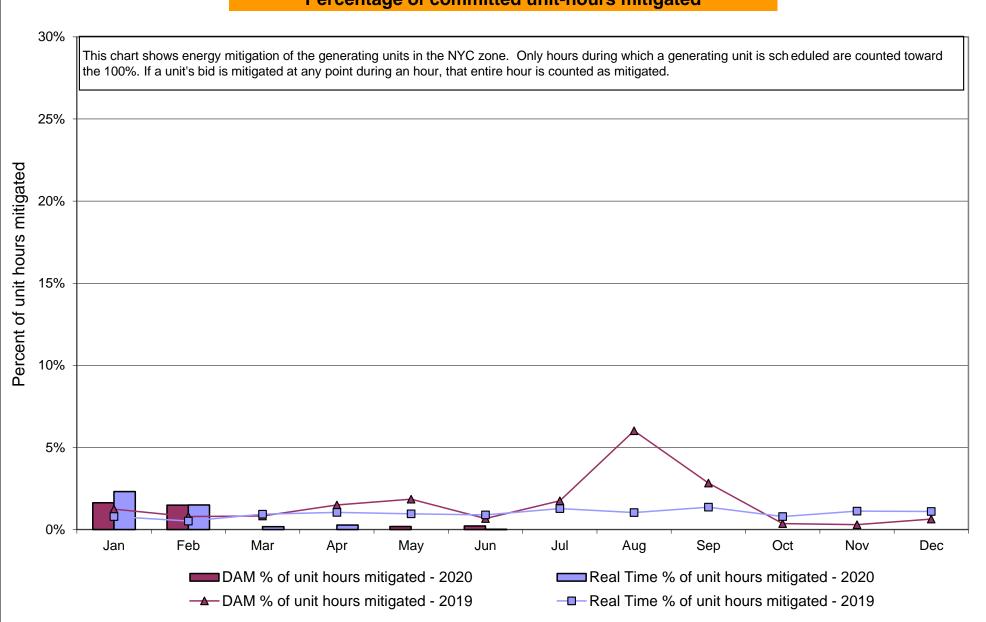
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RTC

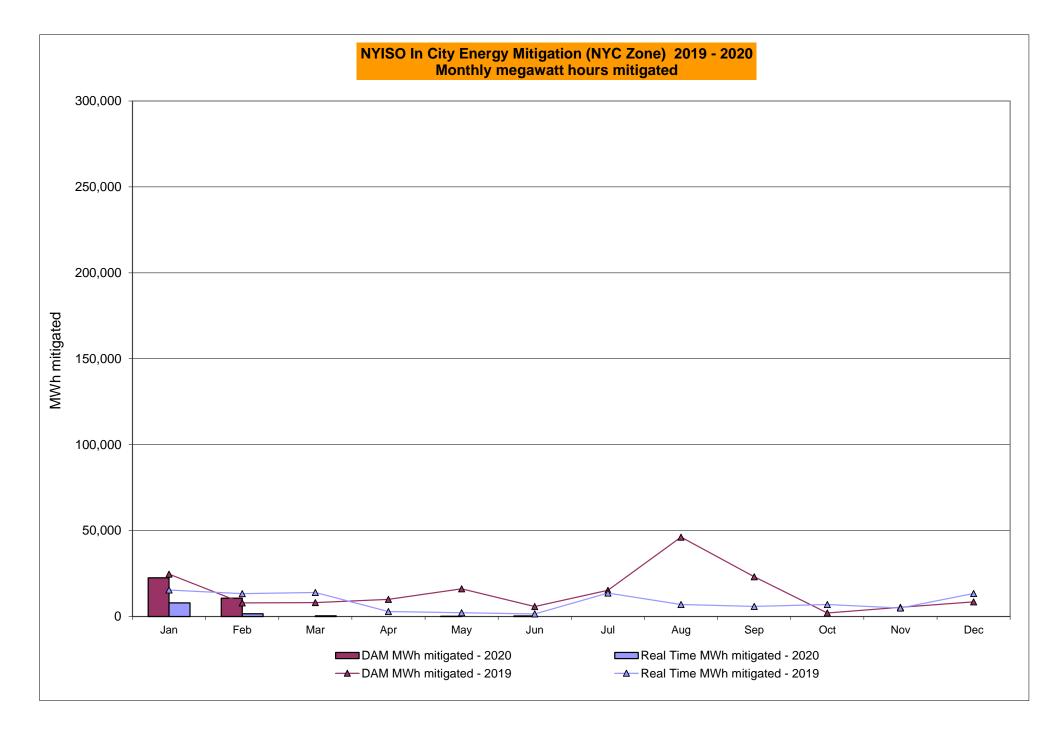
2020	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
RTC Market												
10 Min Spin Long Island (K)	0.78	1.42	0.88	0.32	0.25	0.31						
10 Min Spin NYC (J)	0.78	1.46	0.88	0.32	0.26	0.31						
10 Min Spin SENY (GHI)	0.78	1.42	0.88	0.32	0.25	0.31						
10 Min Spin East (F)	0.78	1.42	0.88	0.32	0.25	0.31						
10 Min Spin West (ABCDE)	0.54	0.72	0.46	0.11	0.15	0.17						
10 Min Non Synch Long Island (K)	0.00	0.91	0.00	0.00	0.03	0.05						
10 Min Non Synch NYC (J)	0.00	0.95	0.00	0.00	0.04	0.06						
10 Min Non Synch SENY (GHI)	0.00	0.91	0.00	0.00	0.03	0.05						
10 Min Non Synch East (F)	0.00	0.91	0.00	0.00	0.03	0.05						
10 Min Non Synch West (ABCDE)	0.00	0.28	0.00	0.00	0.03	0.05						
30 Min Long Island (K)	0.00	0.01	0.00	0.00	0.03	0.05						
30 Min NYC (J)	0.00	0.01	0.00	0.00	0.03	0.05						
30 Min SENY (GHI)	0.00	0.01	0.00	0.00	0.03	0.05						
30 Min East (F)	0.00	0.01	0.00	0.00	0.03	0.05						
30 Min West (ABCDE)	0.00	0.01	0.00	0.00	0.03	0.05						
Regulation	6.11	5.77	6.25	6.56	5.02	5.56						
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.17	0.16						
-												
<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
RTC Market												
10 Min Spin Long Island (K)	1.80	1.80	1.08	1.04	0.99	0.99	0.90	0.91	0.38	1.90	1.20	1.68
10 Min Spin NYC (J)	1.80	1.80	1.08	1.04	0.99	0.99	1.54	1.21	0.65	2.37	1.20	1.69
10 Min Spin SENY (GHI)	1.80	1.55	1.08	1.04	0.99	0.99	0.90	0.91	0.38	1.90	1.20	1.68
10 Min Spin East (F)	1.80	1.55	1.08	1.04	0.99	0.69	0.90	0.91	0.38	1.47	1.20	1.68
10 Min Spin West (ABCDE)	1.08	0.80	0.79	0.44	0.44	0.05	0.58	0.51	0.12	0.15	0.79	1.39
10 Min Non Synch Long Island (K)	0.01	0.01	0.11	0.13	0.00	0.00	0.09	0.04	0.01	0.78	0.00	0.08
10 Min Non Synch NYC (J)	0.01	0.01	0.11	0.13	0.00	0.00	0.73	0.34	0.28	1.25	0.00	0.10
10 Min Non Synch SENY (GHI)	0.01	0.08	0.11	0.13	0.00	0.52	0.09	0.04	0.01	0.78	0.00	0.08
10 Min Non Synch East (F)	0.01	0.08	0.11	0.13	0.00	0.22	0.09	0.04	0.01	0.34	0.00	0.08
10 Min Non Synch West (ABCDE)	0.00	0.01	0.01	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00
30 Min Long Island (K)	0.00	0.00	0.01	0.00	0.00	0.00	0.05	0.04	0.00	0.43	0.00	0.00
30 Min NYC (J)	0.00	0.00	0.01	0.00	0.00	0.00	0.31	0.14	0.07	0.58	0.00	0.00
30 Min SENY (GHI)	0.00	0.01	0.01	0.00	0.00	0.24	0.05	0.04	0.00	0.43	0.00	0.00
30 Min East (F)	0.00	0.01	0.01	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00
30 Min West (ABCDE)	0.00	0.01	0.01	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00
Regulation	9.81	6.64	6.21	33.26	7.45	5.16	5.19	7.19	5.52	5.91	7.81	9.74
NYCA Regulation Movement	0.23	0.22	0.21	0.25	0.24	0.18	0.19	0.17	0.16	0.16	0.17	0.18

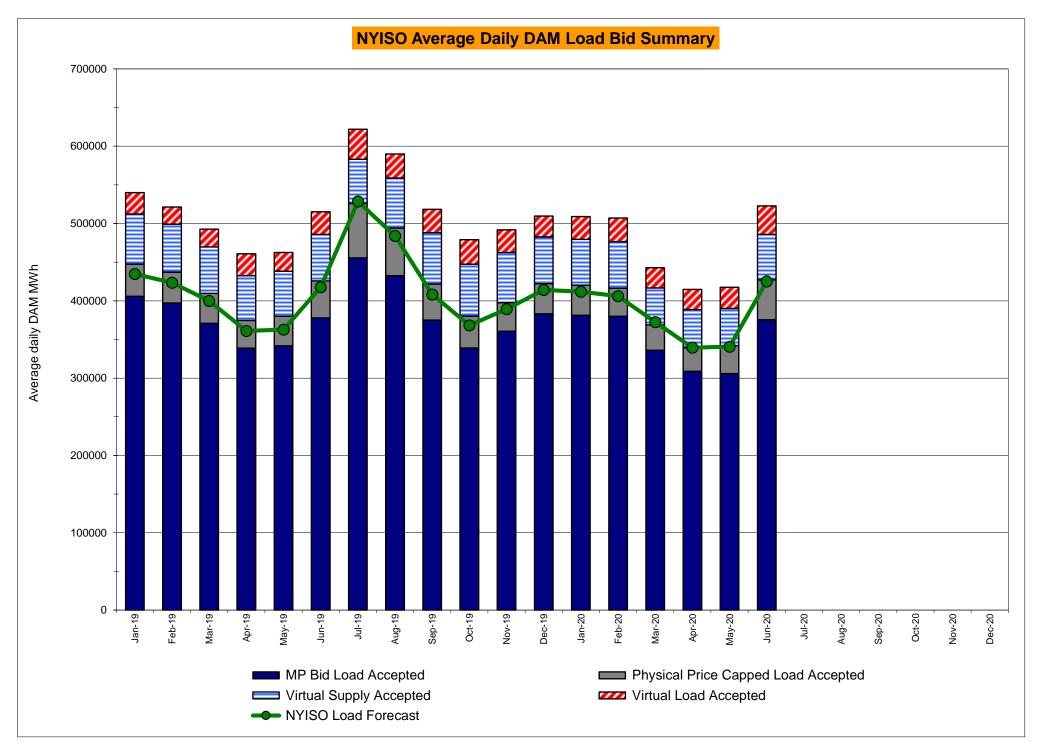
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

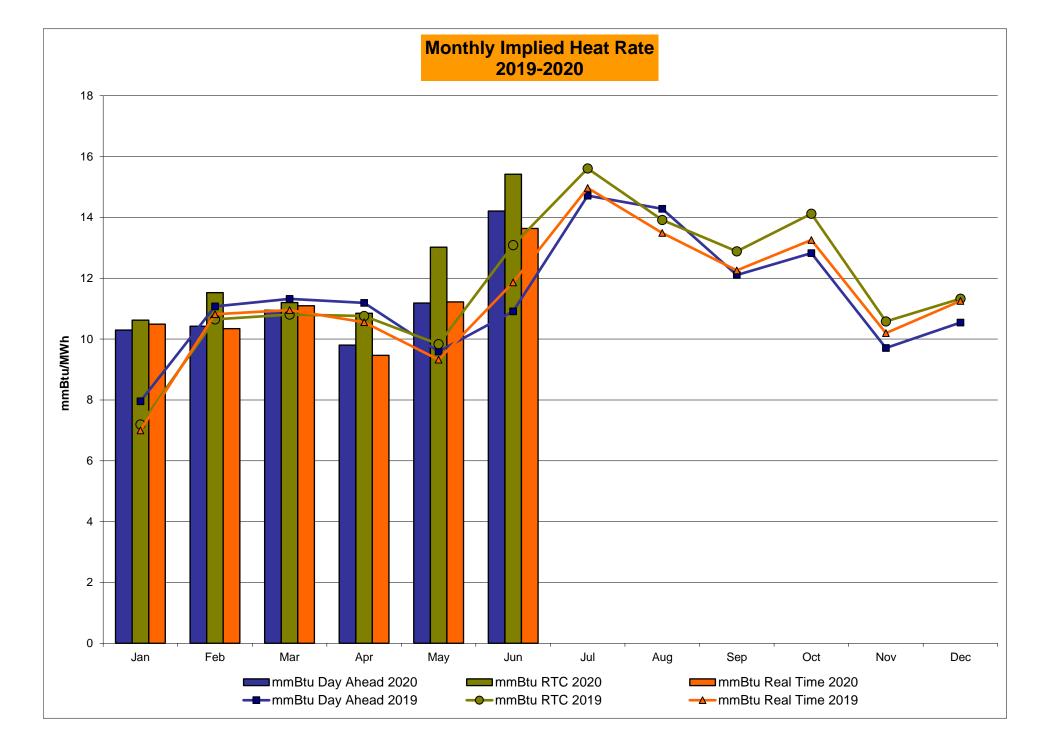
2020 Real Time Market	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	<u>December</u>
10 Min Spin Long Island (K)	1.42	0.98	1.62	0.82	0.61	0.55						
10 Min Spin NYC (J)	1.42	0.98	1.62	0.82	0.63	0.56						
10 Min Spin SENY (GHI)	1.42	0.98	1.62	0.82	0.61	0.55						
10 Min Spin East (F)	1.42	0.98	1.62	0.82	0.61	0.55						
10 Min Spin West (ABCDE)	1.05	0.81	1.11	0.55	0.50	0.44						
10 Min Non Synch Long Island (K)	0.00	0.06	0.00	0.00	0.04	0.11						
10 Min Non Synch NYC (J)	0.00	0.06	0.00	0.00	0.07	0.12						
10 Min Non Synch SENY (GHI)	0.00	0.06	0.00	0.00	0.04	0.12						
10 Min Non Synch East (F)	0.00	0.06	0.00	0.00	0.04	0.11						
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10						
30 Min Long Island (K)	0.00	0.00	0.00	0.00	0.04	0.10						
30 Min NYC (J)	0.00	0.00	0.00	0.00	0.04	0.10						
30 Min SENY (GHI)	0.00	0.00	0.00	0.00	0.04	0.10						
30 Min East (F)	0.00	0.00	0.00	0.00	0.04	0.10						
30 Min West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10						
· · · · · · · · · · · · · · · · · · ·	6.57	6.00	6.32	6.16	5.96	5.67						
Regulation NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.16	0.16						
NTCA Regulation Movement	0.17	0.17	0.17	0.17	0.16	0.16						
2019	<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>
Real Time Market	,							-	·			
Real Time Market 10 Min Spin Long Island (K)	2.53	2.53	2.24	2.75	1.58	1.58	1.32	1.66	0.63	1.96	1.72	2.77
Real Time Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J)	2.53 2.53	2.53 2.53	2.24 2.24	2.75 2.75	1.58 1.58	1.58 1.58	1.32 2.03	1.66 1.98	0.63 0.96	1.96 2.54	1.72 1.72	2.77 2.78
Real Time Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI)	2.53 2.53 2.53	2.53 2.53 2.51	2.24 2.24 2.24	2.75 2.75 2.75	1.58 1.58 1.58	1.58 1.58 1.17	1.32 2.03 1.32	1.66 1.98 1.66	0.63 0.96 0.63	1.96 2.54 1.96	1.72 1.72 1.72	2.77 2.78 2.77
Real Time Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F)	2.53 2.53 2.53 2.53	2.53 2.53 2.51 2.51	2.24 2.24 2.24 2.24	2.75 2.75 2.75 2.75	1.58 1.58 1.58 1.58	1.58 1.58 1.17 0.98	1.32 2.03 1.32 1.32	1.66 1.98 1.66 1.66	0.63 0.96 0.63 0.63	1.96 2.54 1.96 1.68	1.72 1.72 1.72 1.72	2.77 2.78 2.77 2.77
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)	2.53 2.53 2.53 2.53 1.89	2.53 2.53 2.51 2.51 1.57	2.24 2.24 2.24 2.24 1.64	2.75 2.75 2.75 2.75 1.45	1.58 1.58 1.58 1.58 0.85	1.58 1.58 1.17 0.98 0.23	1.32 2.03 1.32 1.32 0.98	1.66 1.98 1.66 1.66 1.24	0.63 0.96 0.63 0.63 0.28	1.96 2.54 1.96 1.68 0.51	1.72 1.72 1.72 1.72 1.25	2.77 2.78 2.77 2.77 2.47
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)	2.53 2.53 2.53 2.53 1.89 0.03	2.53 2.53 2.51 2.51 1.57 0.03	2.24 2.24 2.24 2.24 1.64 0.48	2.75 2.75 2.75 2.75 1.45 0.96	1.58 1.58 1.58 1.58 0.85 0.00	1.58 1.58 1.17 0.98 0.23 0.00	1.32 2.03 1.32 1.32 0.98 0.11	1.66 1.98 1.66 1.66 1.24 0.03	0.63 0.96 0.63 0.63 0.28 0.01	1.96 2.54 1.96 1.68 0.51 0.53	1.72 1.72 1.72 1.72 1.25 0.00	2.77 2.78 2.77 2.77 2.47 0.03
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)	2.53 2.53 2.53 2.53 1.89 0.03 0.03	2.53 2.53 2.51 2.51 1.57 0.03 0.03	2.24 2.24 2.24 2.24 1.64 0.48 0.48	2.75 2.75 2.75 2.75 1.45 0.96 0.96	1.58 1.58 1.58 1.58 0.85 0.00	1.58 1.58 1.17 0.98 0.23 0.00 0.00	1.32 2.03 1.32 1.32 0.98 0.11 0.82	1.66 1.98 1.66 1.66 1.24 0.03 0.35	0.63 0.96 0.63 0.63 0.28 0.01	1.96 2.54 1.96 1.68 0.51 0.53 1.12	1.72 1.72 1.72 1.72 1.25 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04
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)	2.53 2.53 2.53 2.53 1.89 0.03 0.03	2.53 2.53 2.51 2.51 1.57 0.03 0.03 0.18	2.24 2.24 2.24 2.24 1.64 0.48 0.48	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96	1.58 1.58 1.58 1.58 0.85 0.00 0.00	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33	1.32 2.03 1.32 1.32 0.98 0.11 0.82 0.11	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03	0.63 0.96 0.63 0.63 0.28 0.01 0.34	1.96 2.54 1.96 1.68 0.51 0.53 1.12	1.72 1.72 1.72 1.72 1.25 0.00 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04 0.03
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)	2.53 2.53 2.53 2.53 1.89 0.03 0.03	2.53 2.51 2.51 2.51 1.57 0.03 0.03 0.18 0.18	2.24 2.24 2.24 2.24 1.64 0.48 0.48 0.48	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96	1.58 1.58 1.58 1.58 0.85 0.00 0.00 0.00	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33 0.15	1.32 2.03 1.32 1.32 0.98 0.11 0.82	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03	0.63 0.96 0.63 0.63 0.28 0.01	1.96 2.54 1.96 1.68 0.51 0.53 1.12 0.53 0.25	1.72 1.72 1.72 1.72 1.25 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04
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)	2.53 2.53 2.53 2.53 1.89 0.03 0.03	2.53 2.53 2.51 2.51 1.57 0.03 0.03 0.18	2.24 2.24 2.24 2.24 1.64 0.48 0.48	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96	1.58 1.58 1.58 1.58 0.85 0.00 0.00	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33	1.32 2.03 1.32 1.32 0.98 0.11 0.82 0.11	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03	0.63 0.96 0.63 0.63 0.28 0.01 0.34	1.96 2.54 1.96 1.68 0.51 0.53 1.12 0.53 0.25 0.01	1.72 1.72 1.72 1.72 1.25 0.00 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04 0.03
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)	2.53 2.53 2.53 2.53 1.89 0.03 0.03 0.03	2.53 2.51 2.51 2.51 1.57 0.03 0.03 0.18 0.18	2.24 2.24 2.24 2.24 1.64 0.48 0.48 0.48	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96	1.58 1.58 1.58 1.58 0.85 0.00 0.00 0.00	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33 0.15	1.32 2.03 1.32 1.32 0.98 0.11 0.82 0.11 0.11	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03	0.63 0.96 0.63 0.63 0.28 0.01 0.34 0.01	1.96 2.54 1.96 1.68 0.51 0.53 1.12 0.53 0.25 0.01 0.29	1.72 1.72 1.72 1.72 1.25 0.00 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04 0.03 0.03
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)	2.53 2.53 2.53 2.53 1.89 0.03 0.03 0.03 0.03	2.53 2.53 2.51 2.51 1.57 0.03 0.03 0.18 0.18 0.01 0.00	2.24 2.24 2.24 2.24 1.64 0.48 0.48 0.48 0.48 0.09	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96 0.96 0.17 0.00 0.00	1.58 1.58 1.58 1.58 0.85 0.00 0.00 0.00 0.00	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33 0.15 0.02 0.00 0.00	1.32 2.03 1.32 1.32 0.98 0.11 0.82 0.11 0.11 0.08	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03 0.03 0.03 0.03	0.63 0.96 0.63 0.63 0.28 0.01 0.34 0.01 0.01 0.00 0.00	1.96 2.54 1.96 1.68 0.51 0.53 1.12 0.53 0.25 0.01	1.72 1.72 1.72 1.72 1.25 0.00 0.00 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04 0.03 0.03 0.03
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)	2.53 2.53 2.53 2.53 1.89 0.03 0.03 0.03 0.03 0.00 0.00	2.53 2.53 2.51 2.51 1.57 0.03 0.03 0.18 0.18 0.01 0.00	2.24 2.24 2.24 2.24 1.64 0.48 0.48 0.48 0.48 0.09	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96 0.17 0.00	1.58 1.58 1.58 1.58 0.85 0.00 0.00 0.00 0.00 0.00	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33 0.15 0.02 0.00	1.32 2.03 1.32 1.32 0.98 0.11 0.82 0.11 0.11 0.08 0.08	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03 0.03 0.03	0.63 0.96 0.63 0.63 0.28 0.01 0.34 0.01 0.01 0.00	1.96 2.54 1.96 1.68 0.51 0.53 1.12 0.53 0.25 0.01 0.29	1.72 1.72 1.72 1.72 1.25 0.00 0.00 0.00 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04 0.03 0.03 0.00 0.00
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)	2.53 2.53 2.53 2.53 1.89 0.03 0.03 0.03 0.03 0.00 0.00	2.53 2.53 2.51 2.51 1.57 0.03 0.03 0.18 0.18 0.01 0.00	2.24 2.24 2.24 2.24 1.64 0.48 0.48 0.48 0.48 0.09 0.03	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96 0.96 0.17 0.00 0.00	1.58 1.58 1.58 1.58 0.85 0.00 0.00 0.00 0.00 0.00 0.00	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33 0.15 0.02 0.00 0.00	1.32 2.03 1.32 1.32 0.98 0.11 0.82 0.11 0.11 0.08 0.08 0.38	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03 0.03 0.03 0.03	0.63 0.96 0.63 0.63 0.28 0.01 0.34 0.01 0.01 0.00 0.00	1.96 2.54 1.96 1.68 0.51 0.53 1.12 0.53 0.25 0.01 0.29 0.44	1.72 1.72 1.72 1.72 1.25 0.00 0.00 0.00 0.00 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04 0.03 0.03 0.00 0.00
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 NYC (J) 30 Min SENY (GHI)	2.53 2.53 2.53 2.53 1.89 0.03 0.03 0.03 0.03 0.00 0.00 0.00	2.53 2.53 2.51 2.51 1.57 0.03 0.03 0.18 0.18 0.01 0.00 0.00	2.24 2.24 2.24 2.24 1.64 0.48 0.48 0.48 0.48 0.09 0.03 0.03	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96 0.96 0.17 0.00 0.00	1.58 1.58 1.58 1.58 0.85 0.00 0.00 0.00 0.00 0.00 0.00 0	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33 0.15 0.02 0.00 0.00 0.00	1.32 2.03 1.32 1.32 0.98 0.11 0.82 0.11 0.11 0.08 0.08 0.38 0.08	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03 0.03 0.03 0.13 0.03	0.63 0.96 0.63 0.63 0.28 0.01 0.34 0.01 0.01 0.00 0.00	1.96 2.54 1.96 1.68 0.51 0.53 1.12 0.53 0.25 0.01 0.29 0.44 0.29	1.72 1.72 1.72 1.72 1.25 0.00 0.00 0.00 0.00 0.00 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04 0.03 0.03 0.00 0.00 0.00
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 SENY (GHI) 30 Min SENY (GHI)	2.53 2.53 2.53 2.53 1.89 0.03 0.03 0.03 0.03 0.00 0.00 0.00	2.53 2.53 2.51 2.51 1.57 0.03 0.03 0.18 0.18 0.01 0.00 0.00	2.24 2.24 2.24 2.24 1.64 0.48 0.48 0.48 0.09 0.03 0.03 0.03	2.75 2.75 2.75 2.75 1.45 0.96 0.96 0.96 0.96 0.17 0.00 0.00 0.00	1.58 1.58 1.58 1.58 0.85 0.00 0.00 0.00 0.00 0.00 0.00 0	1.58 1.58 1.17 0.98 0.23 0.00 0.00 0.33 0.15 0.02 0.00 0.00 0.13	1.32 2.03 1.32 1.32 0.98 0.11 0.82 0.11 0.11 0.08 0.08 0.38 0.08	1.66 1.98 1.66 1.66 1.24 0.03 0.35 0.03 0.03 0.03 0.03 0.03 0.03	0.63 0.96 0.63 0.63 0.28 0.01 0.34 0.01 0.01 0.00 0.00 0.00	1.96 2.54 1.96 1.68 0.51 0.53 1.12 0.53 0.25 0.01 0.29 0.44 0.29 0.01	1.72 1.72 1.72 1.72 1.25 0.00 0.00 0.00 0.00 0.00 0.00 0.00	2.77 2.78 2.77 2.77 2.47 0.03 0.04 0.03 0.03 0.00 0.00 0.00 0.00

NYISO In City Energy Mitigation - AMP (NYC Zone) 2019 - 2020 Percentage of committed unit-hours mitigated

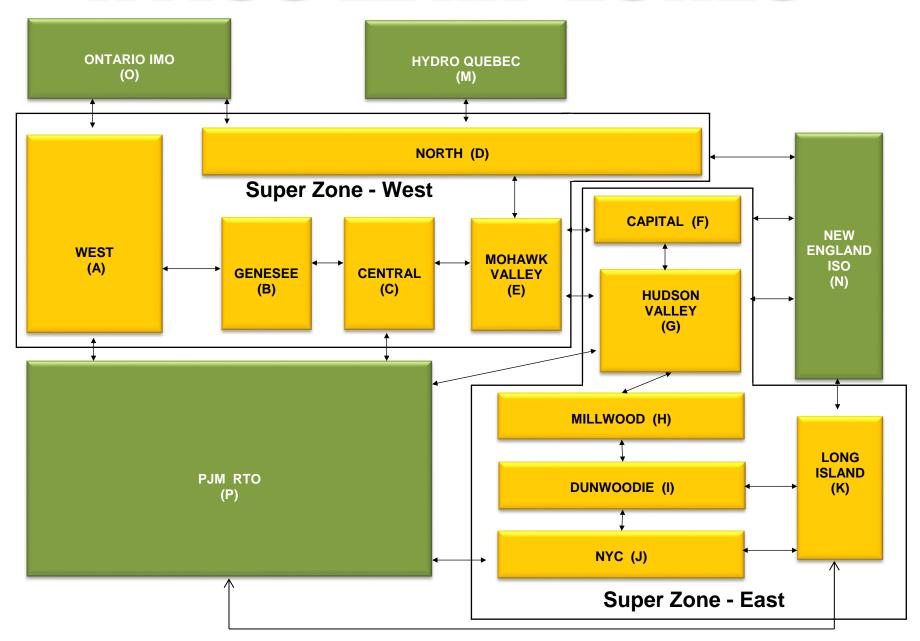








NYISO LBMP ZONES

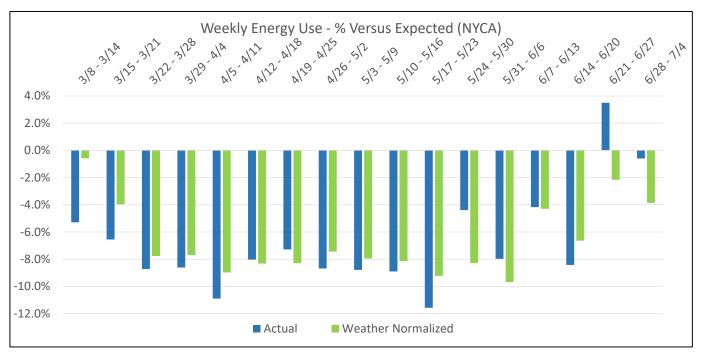


Billing Codes for Chart C

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

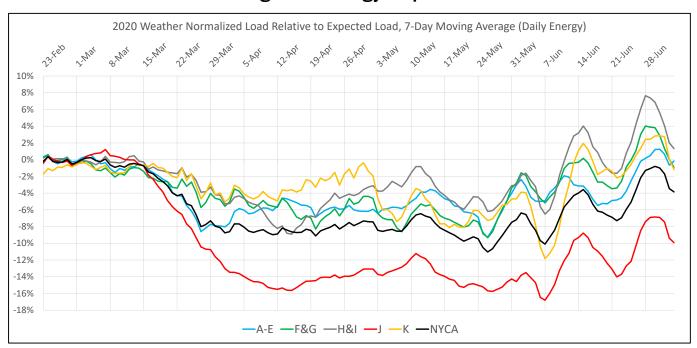
COVID-19: Estimated Load Impacts

NYCA Weekly Energy Impacts versus Expected*



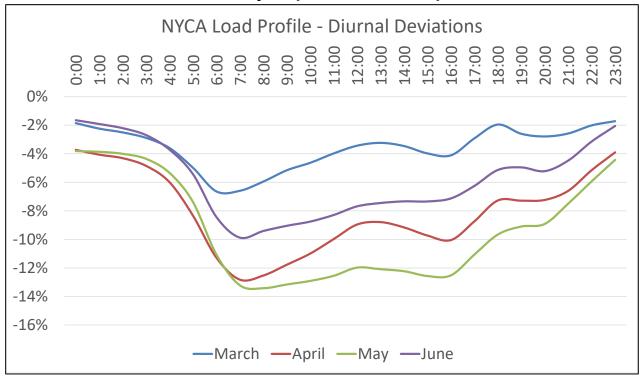
* Green bars indicate COVID-19 impact

Regional Energy Impacts



COVID-19: Estimated Load Impacts

NYCA Hourly Impacts versus Expected*



* Includes Weekdays and Weekends

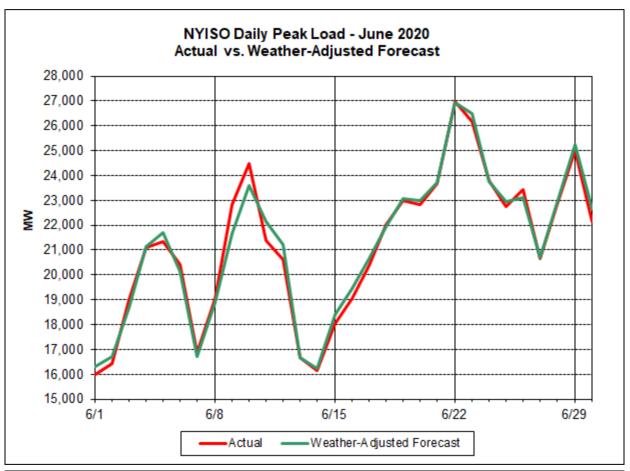
Hour	March	April	May	June
0:00	-2%	-4%	-4%	-2%
-				
1:00	-2%	-4%	-4%	-2%
2:00	-3%	-4%	-4%	-2%
3:00	-3%	-5%	-4%	-3%
4:00	-4%	-6%	-5%	-4%
5:00	-5%	-8%	-7%	-5%
6:00	-7%	-11%	-11%	-8%
7:00	-7%	-13%	-13%	-10%
8:00	-6%	-13%	-13%	-9%
9:00	-5%	-12%	-13%	-9%
10:00	-5%	-11%	-13%	-9%
11:00	-4%	-10%	-13%	-8%
12:00	-3%	-9%	-12%	-8%
13:00	-3%	-9%	-12%	-7%
14:00	-3%	-9%	-12%	-7%
15:00	-4%	-10%	-13%	-7%
16:00	-4%	-10%	-13%	-7%
17:00	-3%	-9%	-11%	-6%
18:00	-2%	-7%	-10%	-5%
19:00	-3%	-7%	-9%	-5%
20:00	-3%	-7%	-9%	-5%
21:00	-3%	-7%	-7%	-4%
22:00	-2%	-5%	-6%	-3%
23:00	-2%	-4%	-4%	-2%

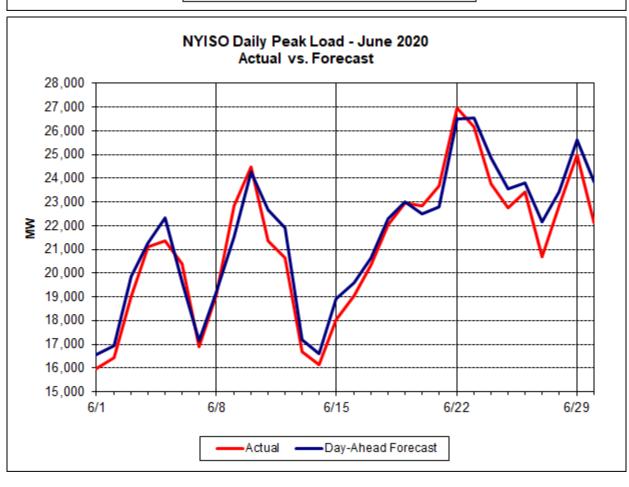
Percent Deviations

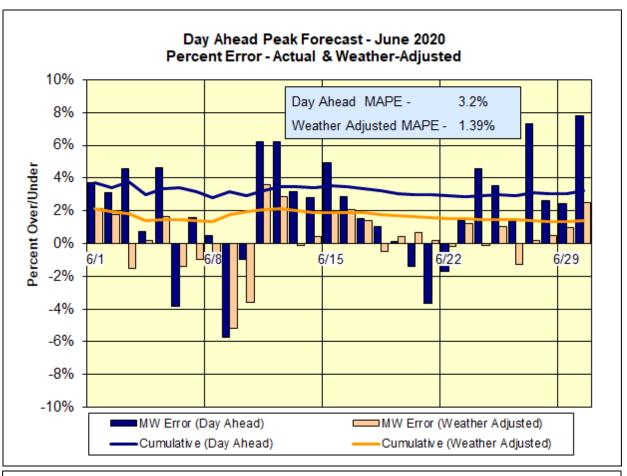
" IIIC	iudes v	veekaa	ys and	vveekei
Hour	March	April	May	June
0:00	-261	-502	-513	-380
1:00	-306	-530	-498	-403
2:00	-336	-551	-503	-427
3:00	-386	-617	-541	-481
4:00	-487	-775	-669	-615
5:00	-712	-1140	-970	-903
6:00	-1042	-1686	-1588	-1407
7:00	-1093	-2027	-2038	-1709
8:00	-1002	-2029	-2137	-1724
9:00	-871	-1916	-2129	-1669
10:00	-781	-1785	-2111	-1614
11:00	-667	-1610	-2069	-1522
12:00	-571	-1432	-1982	-1411
13:00	-533	-1397	-2011	-1397
14:00	-562	-1448	-2039	-1419
15:00	-644	-1540	-2107	-1478
16:00	-672	-1612	-2125	-1494
17:00	-485	-1424	-1898	-1294
18:00	-332	-1192	-1652	-1069
19:00	-454	-1211	-1545	-1055
20:00	-485	-1217	-1518	-1060
21:00	-431	-1068	-1237	-899
22:00	-317	-781	-914	-645
23:00	-253	-552	-633	-447

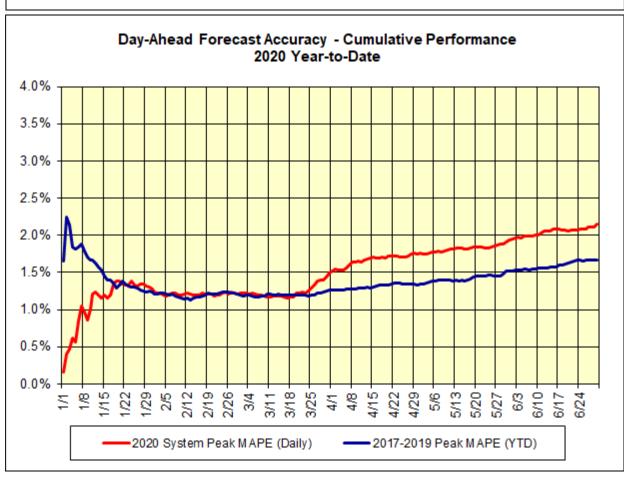
Peak Hour

MW Deviations









Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – June 2020

F''	Filt - O	Deal of	0.1	0.10
Filing Date	Filing Summary	Docket	Order Date	Order Summary
04/01/2020	NYISO filing re: request for tariff waiver of MST Section 4.4.1.2.1 concerning minimum generation bids	ER20-1470-000	06/01/2020	Order granted waiver for a period of eight months, not to extend beyond December 31, 2020
04/09/2020	Joint 205 NYISO and Consolidated Edison re: large generator interconnection agreement (SA 2520) between NYISO and Con Edison regarding the East River 1 generating station	ER20-1524-000	06/05/2020	Order accepted agreement effective 03/26/2020, as requested
04/09/2020	Joint 205 NYISO and Consolidated Edison re: large generator interconnection agreement (SA 2521) between NYISO and Con Edison regarding the East River 2 generating station	ER20-1526-000	06/05/2020	Order accepted agreement effective 03/26/2020, as requested
04/17/2020	NYISO 205 filing on behalf of Niagara Mohawk Power Corporation re: Engineering and Procurement Agreement (SA 2531) between Niagara Mohawk and New York Transco, LLC	ER20-1584-000	06/15/2020	Order accepted agreement effective 03/18/2020, as requested
04/20/2020	Joint NYISO and NYSEG 205 filing re: small generator interconnection agreement (SA 2526) among the NYISO, NYSEG, and Duke Energy Renewables Solar, LLC concerning the Niagara Solar facility	ER20-1602-000	06/18/2020	Order accepted agreement effective 04/06/2020, as requested
04/20/2020	Joint NYISO and NYSEG 205 filing re: small generator interconnection agreement (SA 2527) among the NYISO, NYSEG, and Duke Energy Renewables Solar, LLC concerning the Scipio Solar facility	ER20-1603-000	06/18/2020	Order accepted agreement effective 04/06/2020, as requested
04/28/2020	NYISO compliance filing re: revisions directed by Order Nos. 845 and 845-A which amended the pro forma Large Generator Interconnection Agreement and Large Generator Interconnection Procedures	ER19-1949-001	06/04/2020	Order accepted compliance revisions effective 04/20/20, as requested
04/29/2020	NYISO 205 filing on behalf of the New York Power Authority ("NYPA") re: a new Section 6.10.8 to Rate Schedule 10 of the NYISO OATT for the establishment of a Regulated Transmission Facility Charge to permit NYPA's recovery of its revenue requirement associated with the "AC Projects"	ER20-1688-000	06/17/2020	Order accepted revisions effective 07/01/2020, as requested
04/30/2020	NYISO 205 filing re: enhancements to the Energy Storage Resource participation model	ER20-1696-000	06/17/2020	Order accepted revisions subject to a two-week advance notice compliance filing notifying FERC of the actual effective date

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06/05/2020	NYISO filing re: answer to third party comments filed in response to NYISO's filing of <i>Proposed Enhancements to the "Part A Exemption Test" Under the "Buyer-Side" Capacity Market Power Mitigation Measures</i>	ER20-1718-000		
06/10/2020	NYISO filing re: questions to the New York Department of Public Service ("NYDPS") regarding The Brattle Group Analysis results filed by the NYDPS staff for the 06/19/2020 technical conference on the Motion of the Commission to Consider Resource Adequacy	PSC Case No. 19-E-0530		
06/15/2020	NYISO filing on behalf of Niagara Mohawk Power Corporation re: compliance revisions to its transmission service charge under NYISO OATT Sections 14.1 and 14.2	ER20-2051-000		
06/18/2020	NYISO and Consolidated Edison Company of New York joint 205 filing re: large generator interconnection agreement (SA 2535) between NYISO, Con Edison and NRG Berrians East Development	ER20-2090-000		
06/18/2020	IRC comments re: response to FERC's Proposed Policy Statement concerning Waiver of Tariff Requirements	PL20-7-000		
06/19/2020	NYISO 205 filing re: sustainability of operating reserves and energy storage resource schedules during reserve pickups	ER20-2113-000		
06/22/2020	NYISO filings to the NYPSC re: a confidential filing concerning an amendment to the agreement associated with the five-year revolving credit facility authorized by the 11/16/2008 Order, which was filed in this proceeding on 03/08/2020 and a public filing of a verified report regarding the costs and expenses associated with the credit facility authorized by the 11/16/2008 Order	PSC Case No. 18-E-0439		
06/26/2020	NYISO compliance filing on behalf of New York Transco, LLC re: clarifying revisions to the NYISO OATT to avoid any potential confusion as to the proper cost allocation mechanism for the NY Transco transmission facilities	ER15-572-008		
06/26/2020	NYISO confidential filing re: a copy of the Consolidated Edison System Restoration Plan dated 06/01/2020	ER12-2568-000		
06/30/2020	NYISO compliance filing on behalf of New York Transco, LLC. re: Order No. 864 – Accumulated Deferred Income Tax	ER20-2259-000		