

Market Operations Report

Rana Mukerji

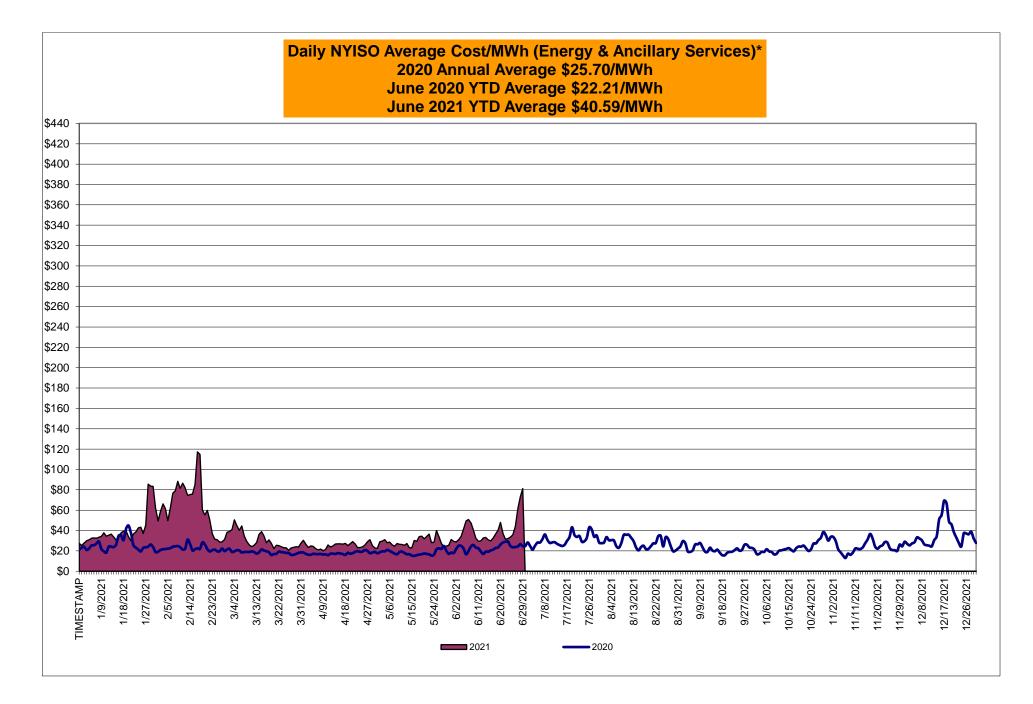
SENIOR VICE PRESIDENT – MARKET STRUCTURES, NYISO

Business Issues Committee Meeting

July 14, 2021 Rensselaer, NY

Market Performance Highlights June 2021

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

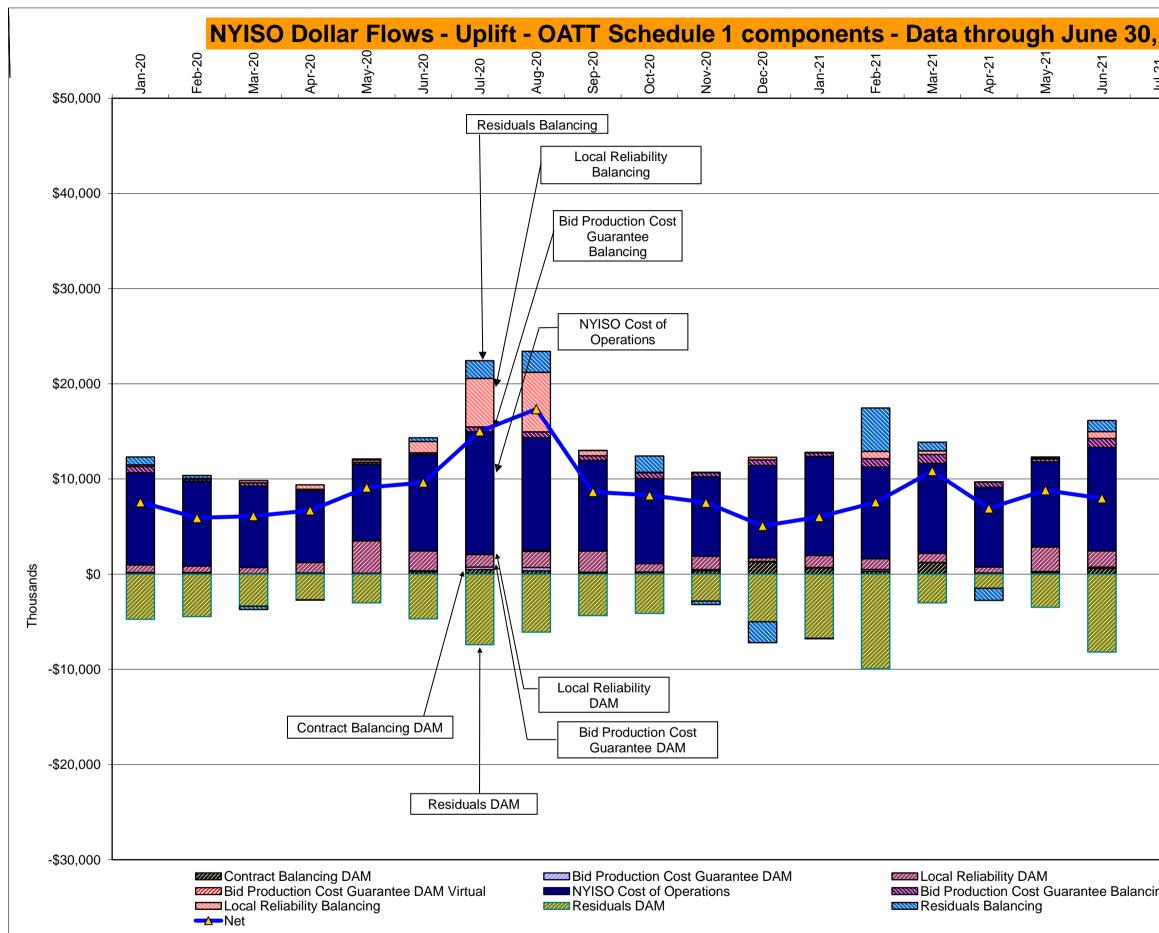


* Excludes ICAP payments.

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2024				• •				.	0 / 1			_
2021	January	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	37.83	63.70	28.59	22.79	25.72	39.37						
NTAC	1.35	1.20	1.26	1.54	2.09	2.05						
Reserve	0.49	0.81	0.57	0.56	0.54	0.45						
Regulation	0.07	0.13	0.09	0.10	0.08	0.07						
NYISO Cost of Operations	0.74	0.74	0.74	0.74	0.76	0.76						
FERC Fee Recovery	0.08	0.09	0.09	0.11	0.10	0.08						
Uplift	(0.31)	(0.15)	0.11	(0.12)	(0.19)	(0.50)						
Uplift: Local Reliability Share	0.09	0.15	0.11	0.06	0.22	0.17						
Uplift: Statewide Share	(0.40)	(0.30)	0.00	(0.18)	(0.41)	(0.68)						
Voltage Support and Black Start	0.43	0.43	0.43	0.44	0.44	0.44						
Avg Monthly Cost	40.61	66.87	31.81	26.06	29.45	42.65						
Avg YTD Cost	40.69	52.99	46.57	42.41	40.10	40.59						
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.52	0.90						
2020		- ·		A				. .			N 1 1	
2020	January	<u>February</u>	March	April	May	June	July	August	September	<u>October</u>	November	December
LBMP	24.77	21.11	17.11	15.77	16.14	21.36	28.86	26.13	20.52	20.90	22.57	33.70
LBMP NTAC	24.77 0.91	21.11 0.70	17.11 0.86	15.77 0.91	16.14 1.05	21.36 0.95	28.86 1.24	26.13 1.03	20.52 0.78	20.90 0.84	22.57 1.05	33.70 1.35
LBMP NTAC Reserve	24.77 0.91 0.46	21.11 0.70 0.43	17.11 0.86 0.47	15.77 0.91 0.50	16.14 1.05 0.53	21.36 0.95 0.45	28.86 1.24 0.39	26.13 1.03 0.39	20.52 0.78 0.42	20.90 0.84 0.61	22.57 1.05 0.51	33.70 1.35 0.49
LBMP NTAC Reserve Regulation	24.77 0.91 0.46 0.09	21.11 0.70 0.43 0.08	17.11 0.86 0.47 0.09	15.77 0.91 0.50 0.08	16.14 1.05 0.53 0.10	21.36 0.95 0.45 0.08	28.86 1.24 0.39 0.06	26.13 1.03 0.39 0.07	20.52 0.78 0.42 0.09	20.90 0.84 0.61 0.11	22.57 1.05 0.51 0.09	33.70 1.35 0.49 0.08
LBMP NTAC Reserve Regulation NYISO Cost of Operations	24.77 0.91 0.46 0.09 0.68	21.11 0.70 0.43 0.08 0.69	17.11 0.86 0.47 0.09 0.68	15.77 0.91 0.50 0.08 0.66	16.14 1.05 0.53 0.10 0.71	21.36 0.95 0.45 0.08 0.74	28.86 1.24 0.39 0.06 0.76	26.13 1.03 0.39 0.07 0.75	20.52 0.78 0.42 0.09 0.74	20.90 0.84 0.61 0.11 0.73	22.57 1.05 0.51 0.09 0.69	33.70 1.35 0.49 0.08 0.70
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery	24.77 0.91 0.46 0.09 0.68 0.08	21.11 0.70 0.43 0.08 0.69 0.09	17.11 0.86 0.47 0.09 0.68 0.09	15.77 0.91 0.50 0.08 0.66 0.10	16.14 1.05 0.53 0.10 0.71 0.11	21.36 0.95 0.45 0.08 0.74 0.09	28.86 1.24 0.39 0.06 0.76 0.06	26.13 1.03 0.39 0.07 0.75 0.07	20.52 0.78 0.42 0.09 0.74 0.09	20.90 0.84 0.61 0.11 0.73 0.10	22.57 1.05 0.51 0.09 0.69 0.10	33.70 1.35 0.49 0.08 0.70 0.08
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	24.77 0.91 0.46 0.09 0.68 0.08 (0.15)	21.11 0.70 0.43 0.08 0.69 0.09 (0.23)	17.11 0.86 0.47 0.09 0.68 0.09 (0.19)	15.77 0.91 0.50 0.08 0.66 0.10 (0.08)	16.14 1.05 0.53 0.10 0.71 0.11 0.09	21.36 0.95 0.45 0.08 0.74 0.09 (0.05)	28.86 1.24 0.39 0.06 0.76 0.06 0.07	26.13 1.03 0.39 0.07 0.75 0.07 0.17	20.52 0.78 0.42 0.09 0.74 0.09 (0.07)	20.90 0.84 0.61 0.11 0.73 0.10 (0.05)	22.57 1.05 0.51 0.09 0.69 0.10 (0.07)	33.70 1.35 0.49 0.08 0.70 0.08 (0.33)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	24.77 0.91 0.46 0.09 0.68 0.08 (0.15) 0.07	21.11 0.70 0.43 0.08 0.69 0.09 (0.23) 0.06	17.11 0.86 0.47 0.09 0.68 0.09 (0.19) 0.07	15.77 0.91 0.50 0.08 0.66 0.10 (0.08) 0.14	16.14 1.05 0.53 0.10 0.71 0.11 0.09 0.32	21.36 0.95 0.45 0.08 0.74 0.09 (0.05) 0.24	28.86 1.24 0.39 0.06 0.76 0.06 0.07 0.38	26.13 1.03 0.39 0.07 0.75 0.07 0.17 0.50	20.52 0.78 0.42 0.09 0.74 0.09 (0.07) 0.22	20.90 0.84 0.61 0.11 0.73 0.10 (0.05) 0.08	22.57 1.05 0.51 0.09 0.69 0.10 (0.07) 0.12	33.70 1.35 0.49 0.08 0.70 0.08 (0.33) 0.05
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	24.77 0.91 0.46 0.09 0.68 0.08 (0.15) 0.07 (0.22)	21.11 0.70 0.43 0.08 0.69 0.09 (0.23) 0.06 (0.29)	17.11 0.86 0.47 0.09 0.68 0.09 (0.19) 0.07 (0.26)	15.77 0.91 0.50 0.08 0.66 0.10 (0.08) 0.14 (0.21)	16.14 1.05 0.53 0.10 0.71 0.11 0.09 0.32 (0.23)	21.36 0.95 0.45 0.08 0.74 0.09 (0.05) 0.24 (0.29)	28.86 1.24 0.39 0.06 0.76 0.06 0.07 0.38 (0.31)	26.13 1.03 0.39 0.07 0.75 0.07 0.17 0.50 (0.33)	20.52 0.78 0.42 0.09 0.74 0.09 (0.07) 0.22 (0.28)	20.90 0.84 0.61 0.11 0.73 0.10 (0.05) 0.08 (0.13)	22.57 1.05 0.51 0.09 0.69 0.10 (0.07) 0.12 (0.19)	33.70 1.35 0.49 0.08 0.70 0.08 (0.33) 0.05 (0.38)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	24.77 0.91 0.46 0.09 0.68 0.08 (0.15) 0.07 (0.22) 0.44	21.11 0.70 0.43 0.08 0.69 0.09 (0.23) 0.06 (0.29) 0.44	17.11 0.86 0.47 0.09 0.68 0.09 (0.19) 0.07 (0.26) 0.44	15.77 0.91 0.50 0.08 0.66 0.10 (0.08) 0.14 (0.21) 0.43	16.14 1.05 0.53 0.10 0.71 0.11 0.09 0.32 (0.23) 0.45	21.36 0.95 0.45 0.08 0.74 0.09 (0.05) 0.24 (0.29) 0.45	28.86 1.24 0.39 0.06 0.76 0.06 0.07 0.38 (0.31) 0.46	26.13 1.03 0.39 0.07 0.75 0.07 0.17 0.50 (0.33) 0.46	20.52 0.78 0.42 0.09 0.74 0.09 (0.07) 0.22 (0.28) 0.45	20.90 0.84 0.61 0.11 0.73 0.10 (0.05) 0.08 (0.13) 0.45	22.57 1.05 0.51 0.09 0.69 0.10 (0.07) 0.12 (0.19) 0.44	33.70 1.35 0.49 0.08 0.70 0.08 (0.33) 0.05 (0.38) 0.45
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NYISO Average Cost/MWh (Energy and Ancillary Services) *

from the LBMP Customer point of view



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.

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ing						

NYISO Markets Transactions

021	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	
Day Ahead Market MWh	14,108,848	13,325,329	12,843,278	11,204,262	11,854,214	14,120,662	
DAM LSE Internal LBMP Energy Sales	60%	59%	56%	55%	56%	61%	
DAM External TC LBMP Energy Sales	5%	4%	3%	2%	2%	3%	
DAM Bilateral - Internal Bilaterals	31%	30%	32%	35%	35%	29%	
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	1%	4%	4%	5%	4%	4%	
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%	
DAM Bilateral - Wheel Through Bilaterals	2%	2%	3%	2%	2%	2%	
Balancing Energy Market MWh	29,179	-308,157	-70,279	30,603	-36,350	247,874	
Balancing Energy LSE Internal LBMP Energy Sales	-215%	-151%	-367%	-456%	-398%	53%	
Balancing Energy External TC LBMP Energy Sales	374%	59%	365%	578%	440%	60%	
Balancing Energy Bilateral - Internal Bilaterals	49%	4%	27%	34%	0%	-1%	
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	50%	5%	32%	34%	21%	5%	
Balancing Energy Bilateral - Wheel Through Bilaterals	-158%	-17%	-158%	-90%	-163%	-17%	
Transactions Summary							•
LBMP	65%	62%	59%	57%	58%	65%	
Internal Bilaterals	31%	31%	33%	35%	35%	29%	
Import Bilaterals	1%	4%	4%	5%	4%	3%	
Export Bilaterals	2%	2%	2%	2%	2%	2%	
Wheels Through	2%	2%	2%	2%	2%	1%	
Market Share of Total Load	2,0	270	270	270			
Day Ahead Market	99.8%	102.4%	100.6%	99.7%	100.3%	98.3%	
Balancing Energy +	0.2%	-2.4%	-0.6%	0.3%	-0.3%	1.7%	
Total MWH	14,138,027	13,017,172	12,772,999	11,234,865	11,817,864		
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458	
<u>020</u>	<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	
Day Ahead Market MWh	14,194,609	13,172,669	12,495,999	11,372,390	11,462,320	13,825,178	16,6
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	4
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	0,0	.,,,	0,0	0,0	0,0		
Day Ahead Market	100.2%	101.1%	98.9%	99.8%	101.2%	101.3%	
Balancing Energy +	-0.2%	-1.1%	98.9%	99.8% 0.2%	-1.2%	-1.3%	
Total MWH	-0.2 %	13,030,501	12,640,075	11,394,989	11,324,755	13,645,029	17,0
	423	417	375	344	345	430	17,0
Average Daily Energy Sendout/Month GWh	423	41/	313	344	340	430	

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

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

<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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16,629,33715,671,62913,122,54212,338,63812,157,28113,748,1865%63%60%56%57%592%4%4%5%5%526%27%30%32%33%313%3%2%3%3%2
2%4%4%5%526%27%30%32%33%31
26% 27% 30% 32% 33% 31
3% 3% 2% 3% 3% 2
1% 2% 2% 2% 2% 2
<u>2% 2% 2% 2% 0% 2</u>
403,914 212,307 -173,115 -89,451 -54,598 156,89
85% 99% -95% -220% -459% -12
35% 43% 104% 187% 382% 107
2% 1% 0% 4% 3% 7
0% 0% 0% 20% 9% 6
2% 4% 7% 17% 33% 11
-24% -46% -116% -107% -69% -19
68% 67% 64% 61% 62% 64
26% 27% 31% 32% 33% 31
3% 3% 2% 3% 3% 2
1% 2% 2% 2% 2% 2
<u>1% 1% 1% 2% 0% 2</u>
97.6% 98.7% 101.3% 100.7% 100.5% 98.9
2.4% 1.3% -1.3% -0.7% -0.5% 1.1
17,033,251 15,883,935 12,949,426 12,249,187 12,102,682 13,905,07
530 489 408 367 377 4

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

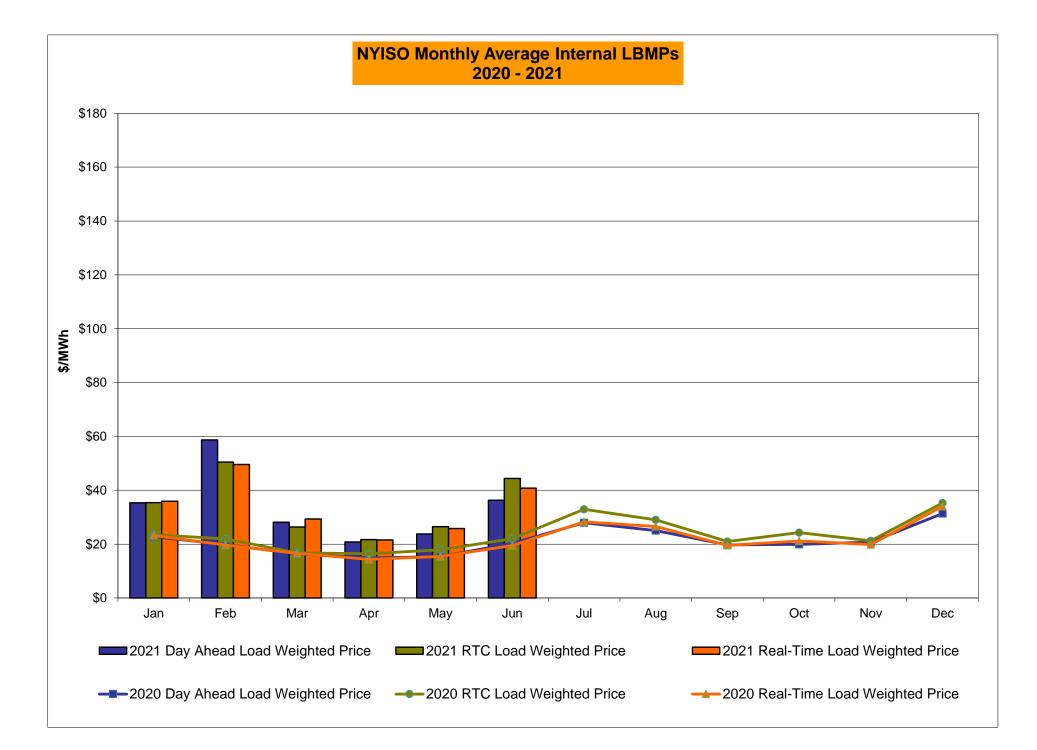
NYISO Markets 2021 Energy Statistics

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

NYISO Markets 2020 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	July	August S	<u>September</u>	<u>October</u>	November [<u>December</u>
DAY AHEAD LBMP	© 00.44	¢40.40	Ф40 0 7	Ф44 C7	Ф440 7	Ф40.4 Г	¢00.00	© 00.04	¢40.00	¢40.40	ФОО О 7	<u> </u>
Price *	\$22.11	\$19.48	\$16.07	\$14.67	\$14.97	\$19.15	\$26.30	\$23.61	\$18.88	\$19.40	\$20.07	\$30.45
Standard Deviation	\$7.43	\$4.45	\$3.21	\$2.71	\$3.55	\$6.40	\$10.45	\$8.56	\$5.41	\$6.36	\$7.15	\$12.35
Load Weighted Price **	\$22.77	\$19.84	\$16.36	\$14.86	\$15.37	\$20.28	\$27.94	\$25.01	\$19.72	\$19.91	\$20.75	\$31.36
RTC LBMP												
Price *	\$22.86	\$21.48	\$16.48	\$16.23	\$17.46	\$20.84	\$30.70	\$26.86	\$19.90	\$23.35	\$20.39	\$34.01
Standard Deviation	\$9.33	\$53.30	\$4.84	\$5.17	\$8.61	\$11.26	\$17.92	\$17.17	\$11.37	\$14.44	\$14.19	\$25.41
Load Weighted Price **	\$23.50	\$21.94	\$16.74	\$16.44	\$17.89	\$22.01	\$32.92	\$29.01	\$20.99	\$24.25	\$21.23	\$35.28
REAL TIME LBMP												
Price *	\$22.53	\$19.29	\$16.24	\$14.14	\$14.90	\$18.35	\$26.56	\$24.68	\$18.63	\$20.44	\$18.96	\$32.72
Standard Deviation	\$11.90	\$8.68	\$7.48	\$6.98	\$8.35	\$9.33	\$16.45	\$13.95	\$7.15	\$12.01	\$12.66	\$24.29
Load Weighted Price **	\$23.20	\$19.68	\$16.58	\$14.35	\$15.42	\$19.46	\$28.27	\$26.53	\$19.54	\$21.15	\$19.84	\$34.04
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430	530	489	408	367	377	417

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

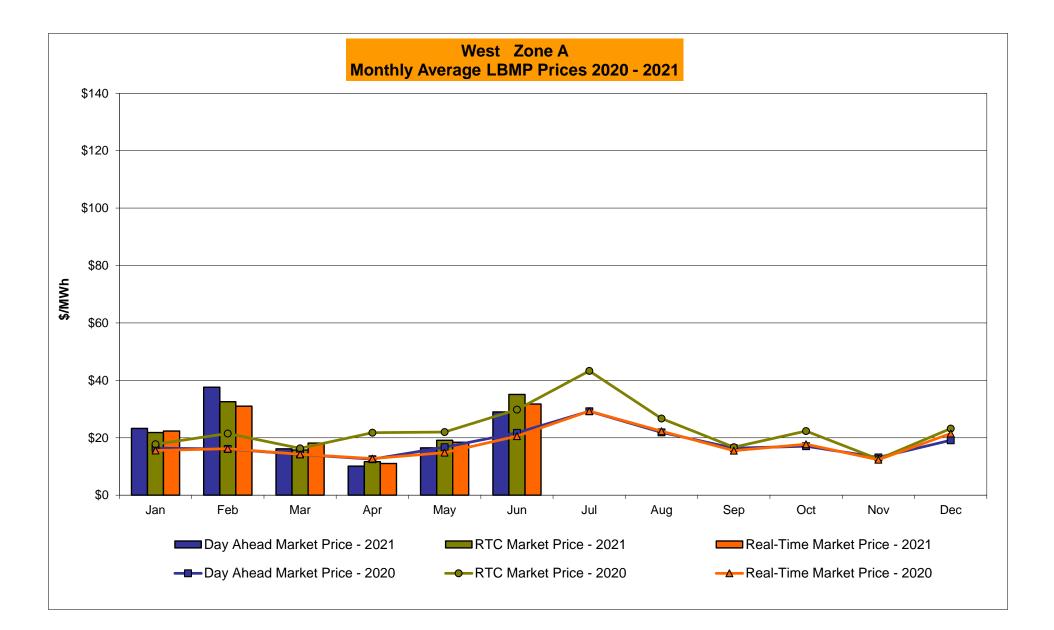


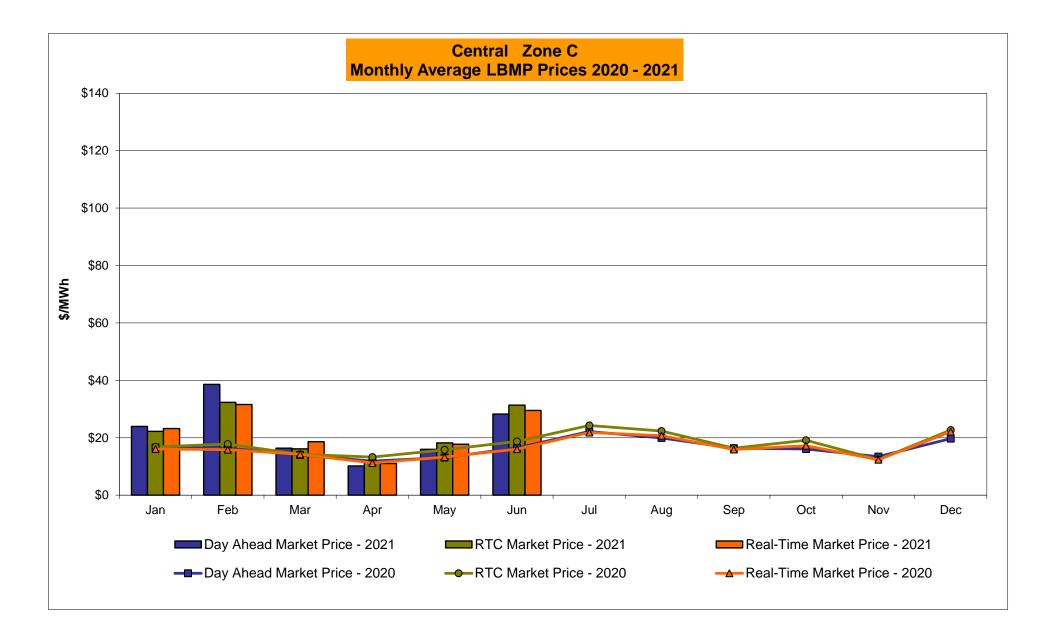
June 2021 Zonal LBMP Statistics for NYISO (\$/MWh)

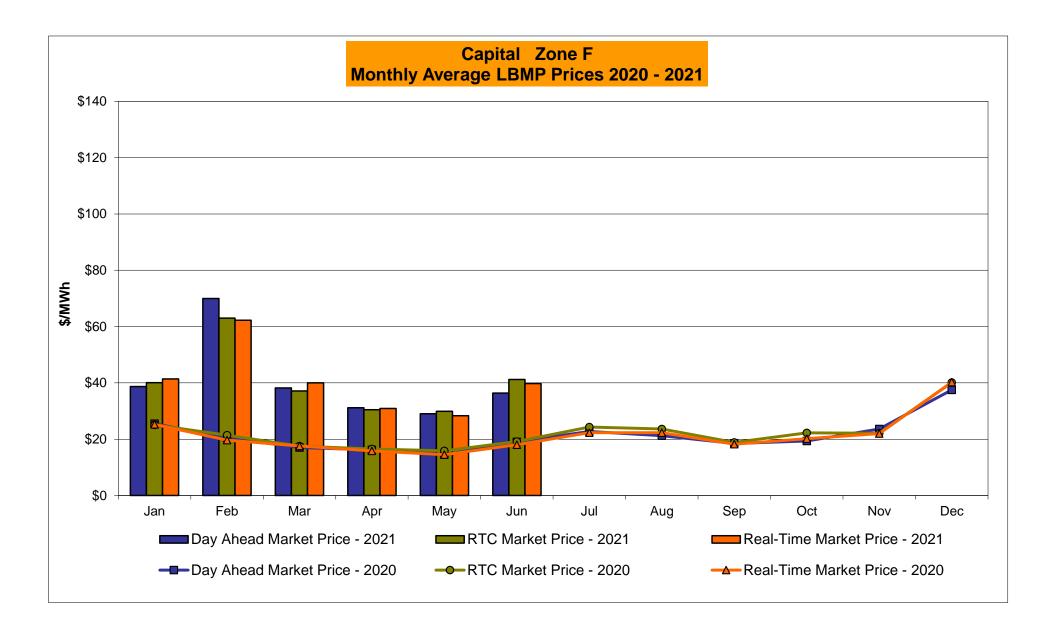
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	<u>Zone I</u>	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	28.97	27.47	15.65	28.27	27.88	36.38	34.04	34.47	34.58	34.84	41.23
Standard Deviation	14.54	12.68	12.02	13.28	13.71	15.97	14.58	15.05	15.09	15.16	25.54
RTC LBMP											
Unweighted Price *	35.11	30.22	23.23	31.34	31.44	41.17	37.03	40.72	39.84	40.03	56.47
Standard Deviation	46.80	25.88	29.21	27.17	27.03	31.42	26.84	41.86	33.50	32.91	95.40
REAL TIME LBMP											
Unweighted Price *	31.74	28.79	20.60	29.52	29.79	39.74	35.93	39.20	38.35	38.71	45.30
Standard Deviation	32.15	20.18	32.67	20.76	21.29	28.26	22.46	36.58	29.09	29.12	37.37

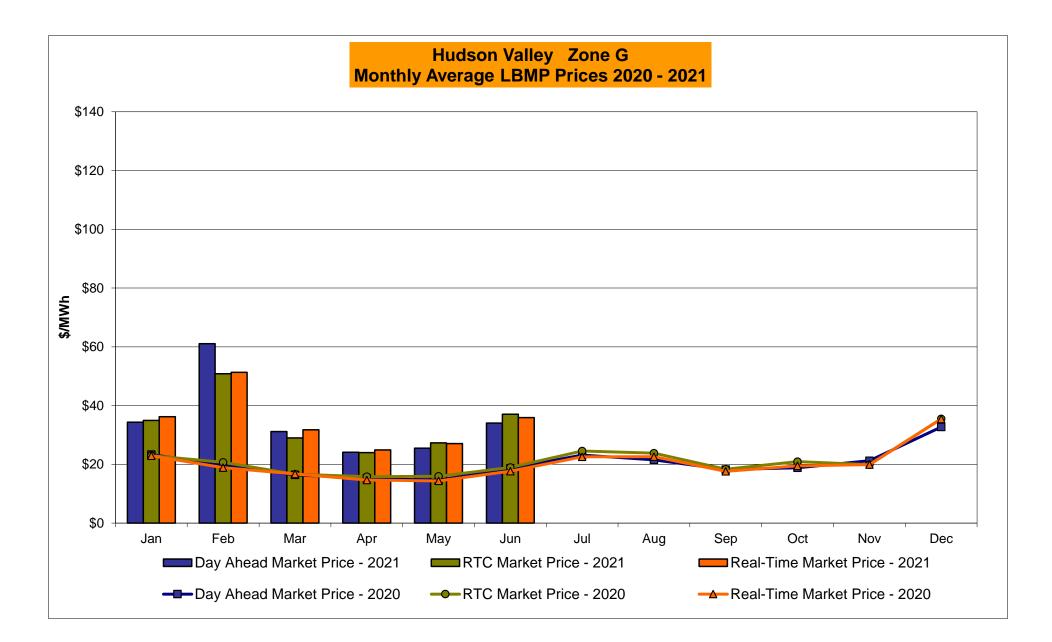
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						<u>Controllable</u>	<u>Controllable</u>	Controllable	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>
	<u>Zone O</u>	<u>Zone M</u>	<u>Zone M</u>	<u>Zone P</u>	<u>Zone N</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	25.94	23.29	23.29	30.99	34.93	42.48	35.85	37.78	33.14	34.53	15.96
Standard Deviation	11.85	11.86	11.86	13.29	16.19	29.52	14.12	15.94	11.27	15.00	11.44
RTC LBMP											
Unweighted Price *	27.85	24.92	24.92	34.09	38.44	56.65	53.15	53.79	38.52	39.28	25.81
Standard Deviation	21.51	26.08	26.08	25.96	29.74	95.86	93.61	94.01	30.78	31.98	32.72
REAL TIME LBMP											
Unweighted Price *	27.24	23.11	23.11	32.71	36.93	45.50	36.92	43.15	37.59	38.08	22.77
Standard Deviation	17.77	27.68	27.68	20.44	24.54	38.15	54.82	34.75	27.51	28.49	36.61

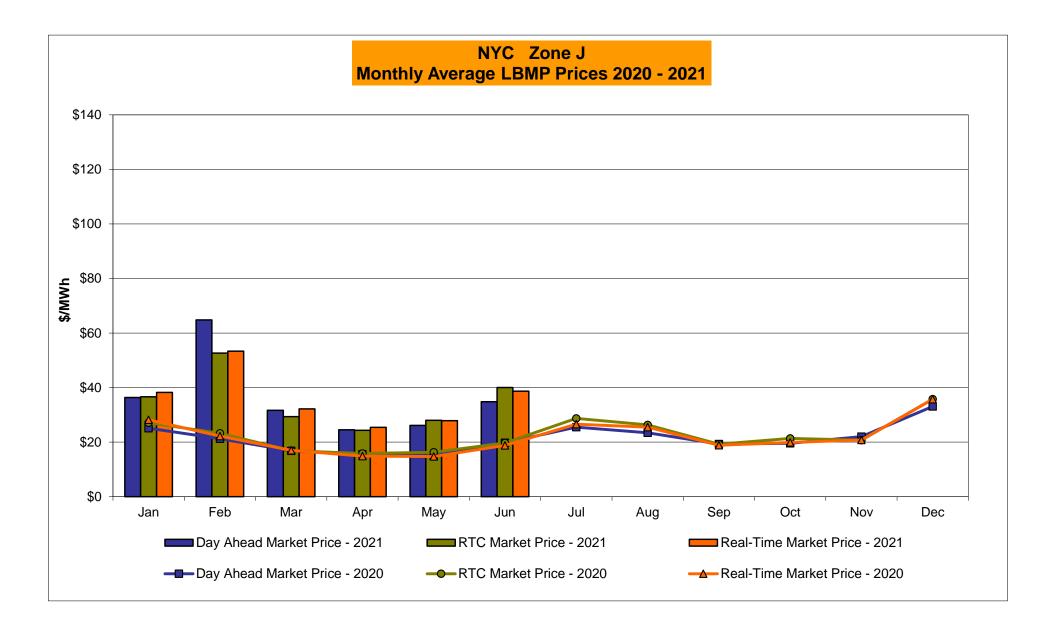
* Straight LBMP averages

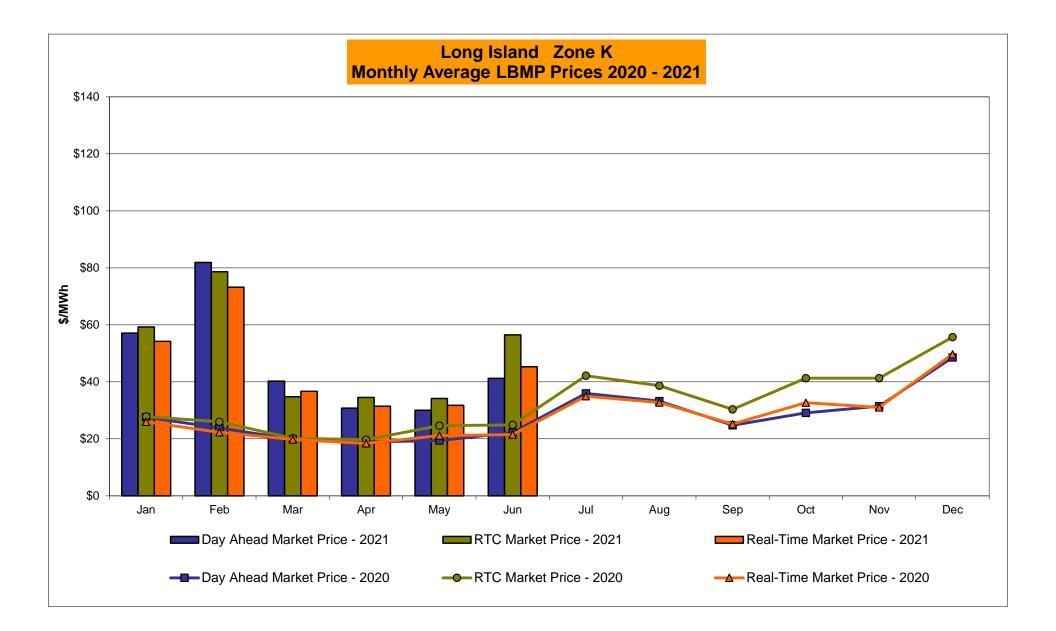


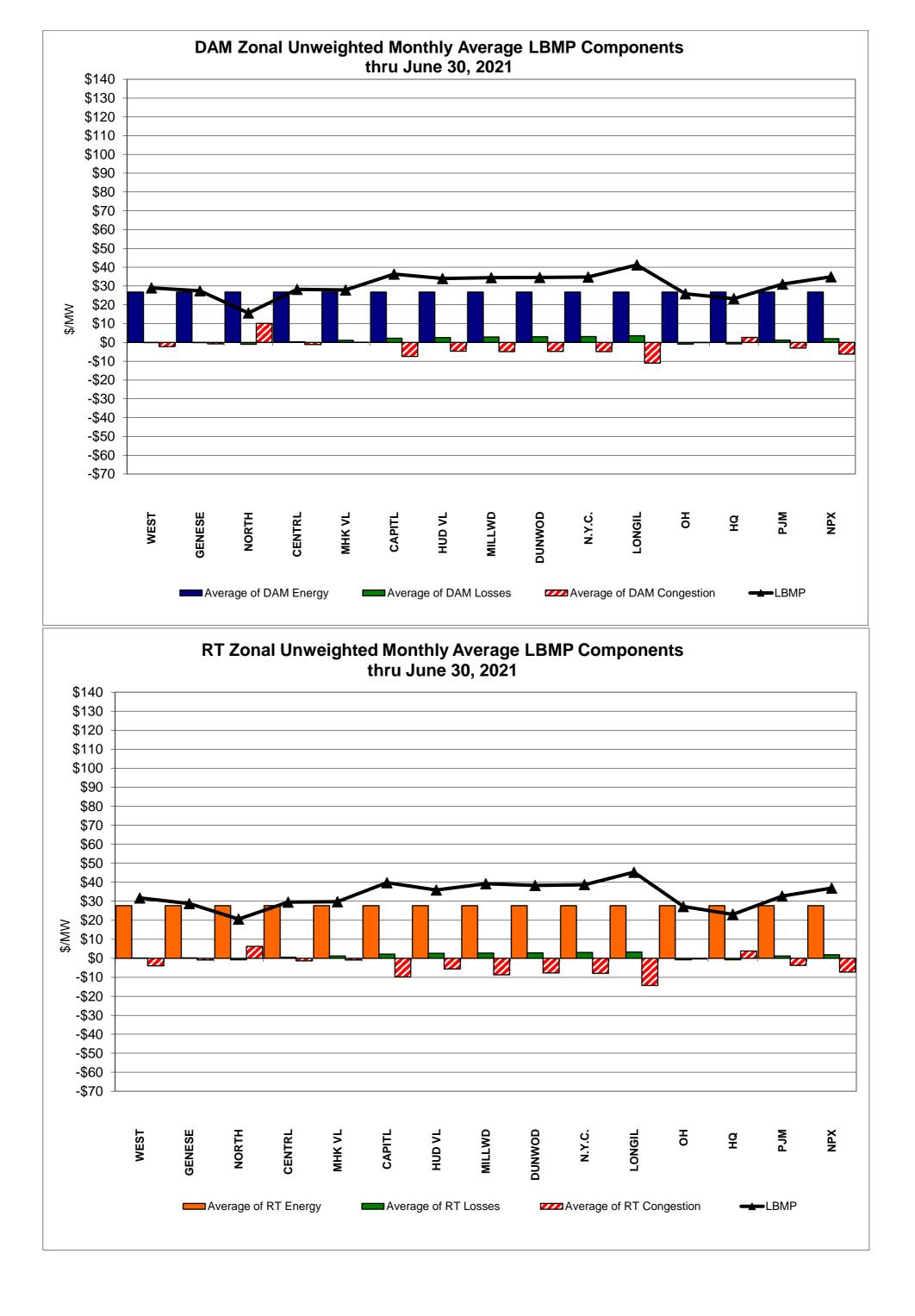




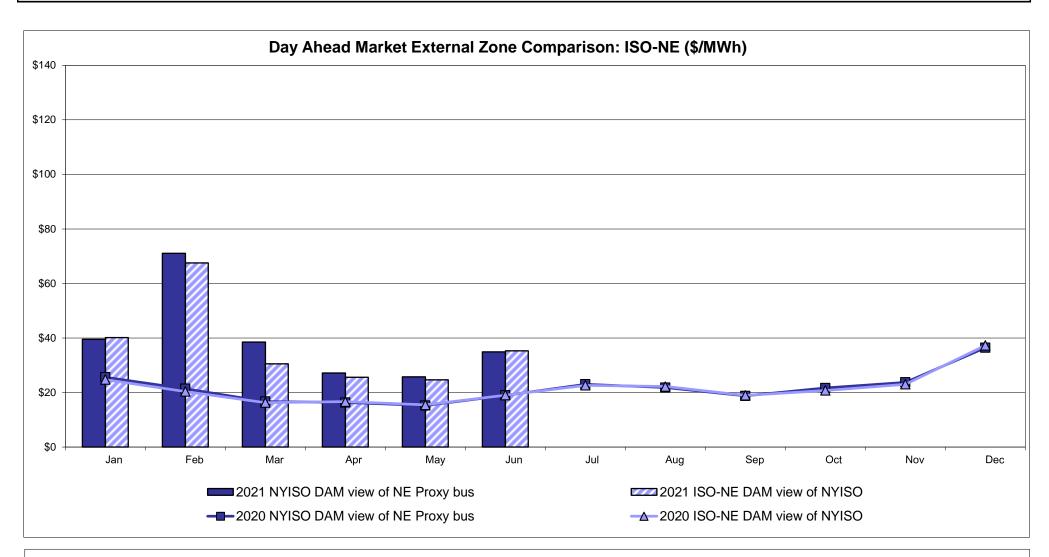


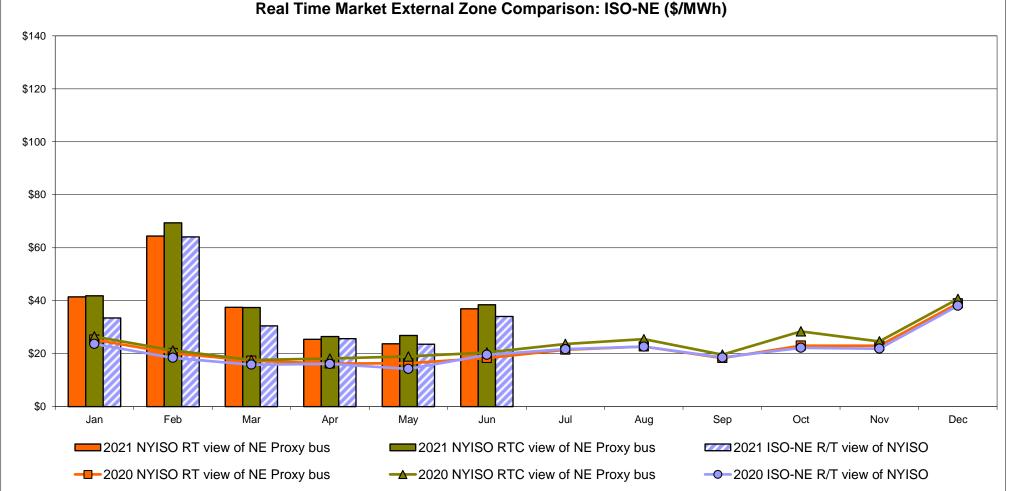


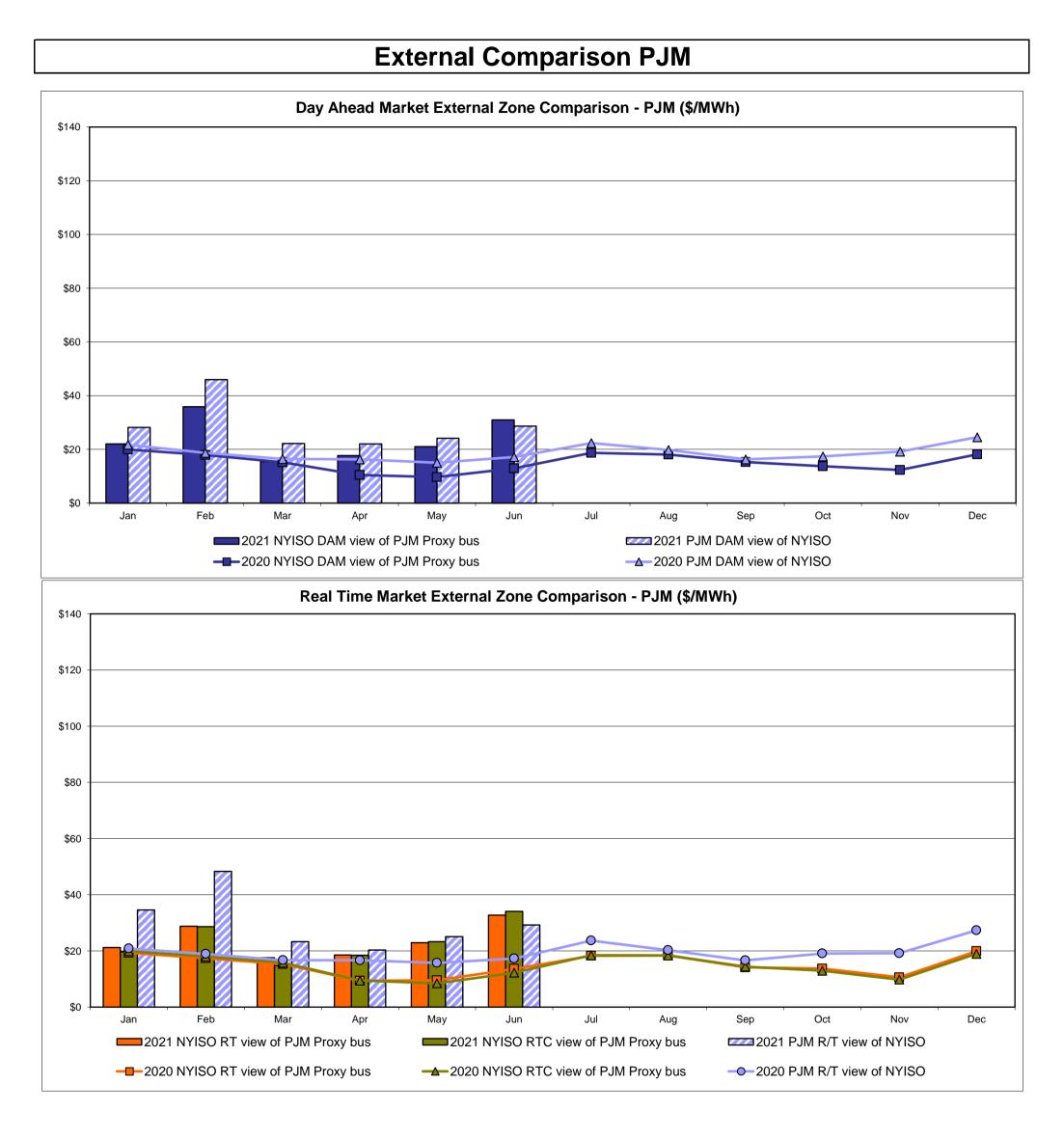




External Comparison ISO-New England

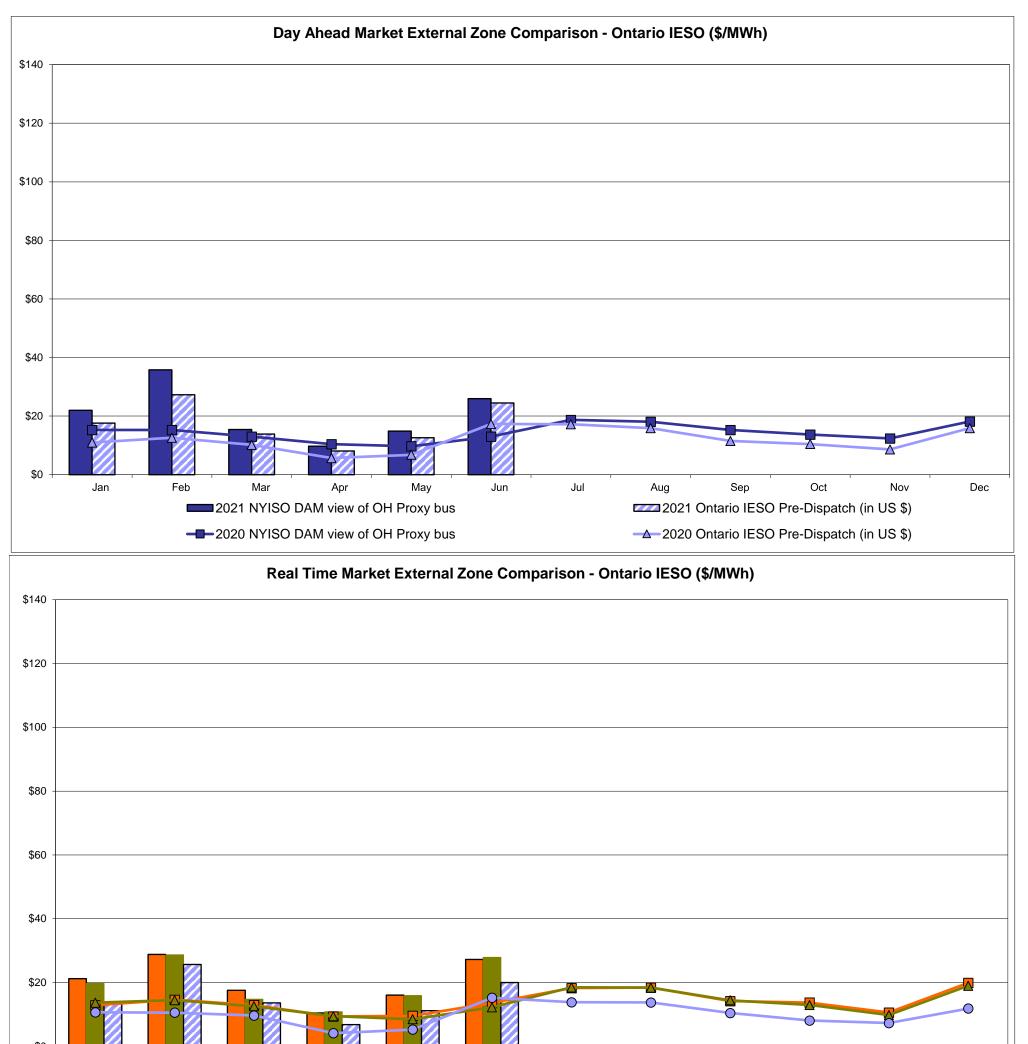






Market Mitigation and Analysis Prepared: 7/9/2021 4:12 PM

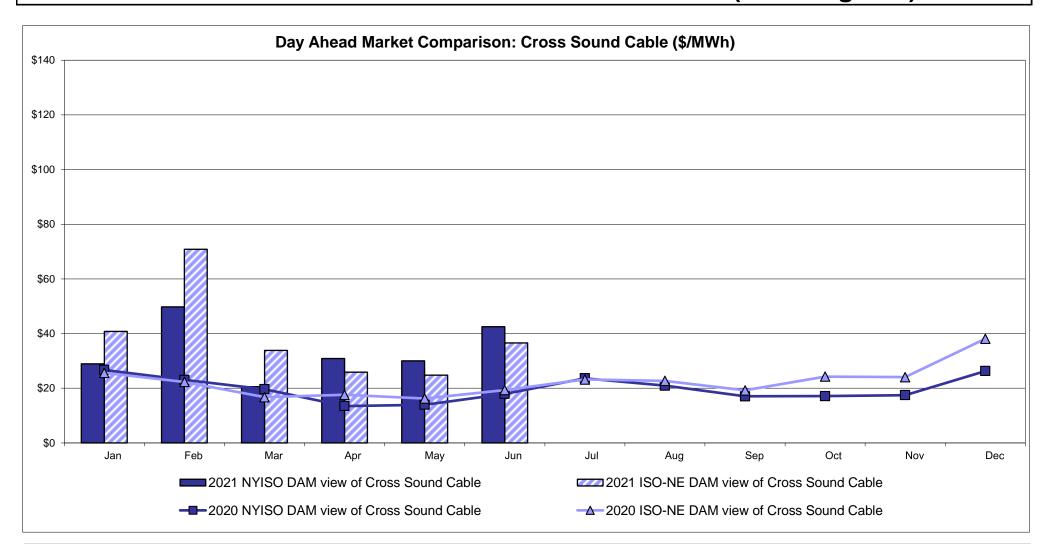
External Comparison Ontario IESO



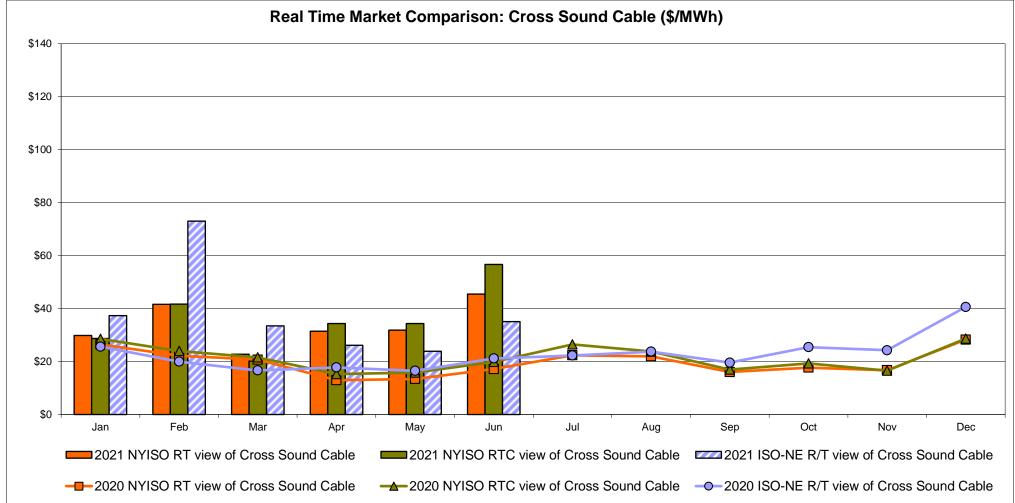
\$0 +	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2 02	1 NYISO RT v	riew of OH Pro	oxy bus	2021	NYISO RTC	view of OH F	Proxy bus	2021	Ontario IESC) HOEP (in US	S \$)
		0 NYISO RT v	riew of OH Pro	oxy bus	 2020	NYISO RTC	view of OH F	Proxy bus	-0-2020	Ontario IESC	HOEP (in US	S \$)

Notes: Exchange factor used for June 2021 was 0.818330605564648 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

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



External Controllable Line: Cross Sound Cable (New England)

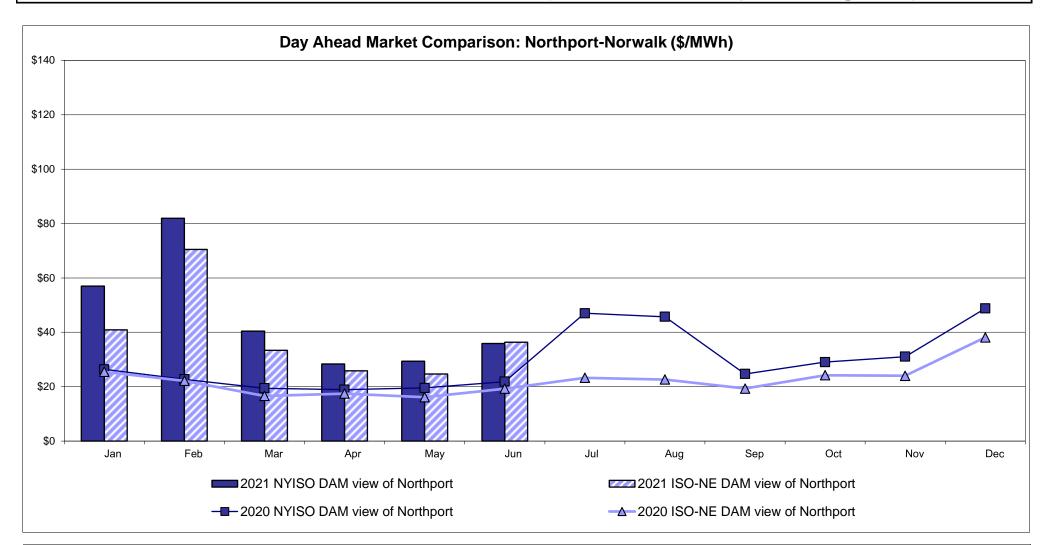


Note:

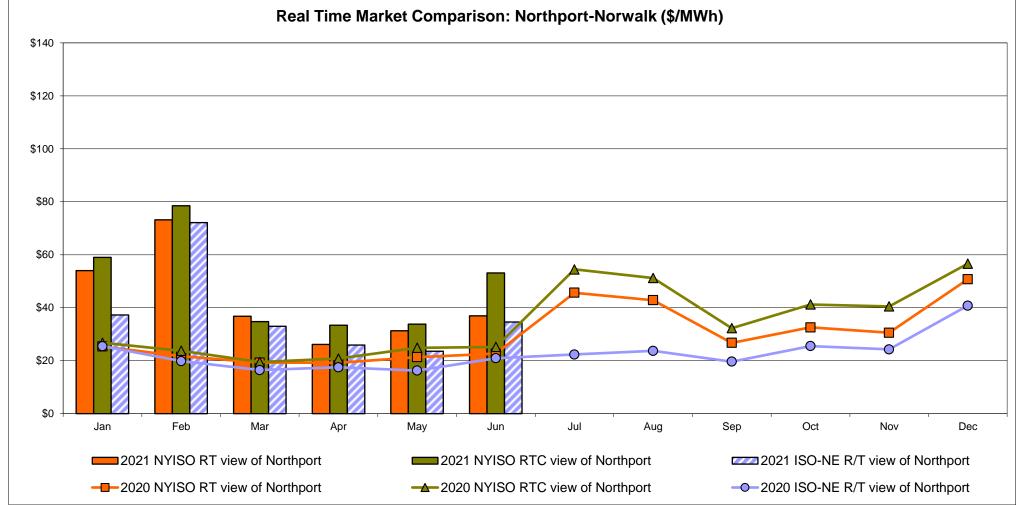
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



External Controllable Line: Northport - Norwalk (New England)



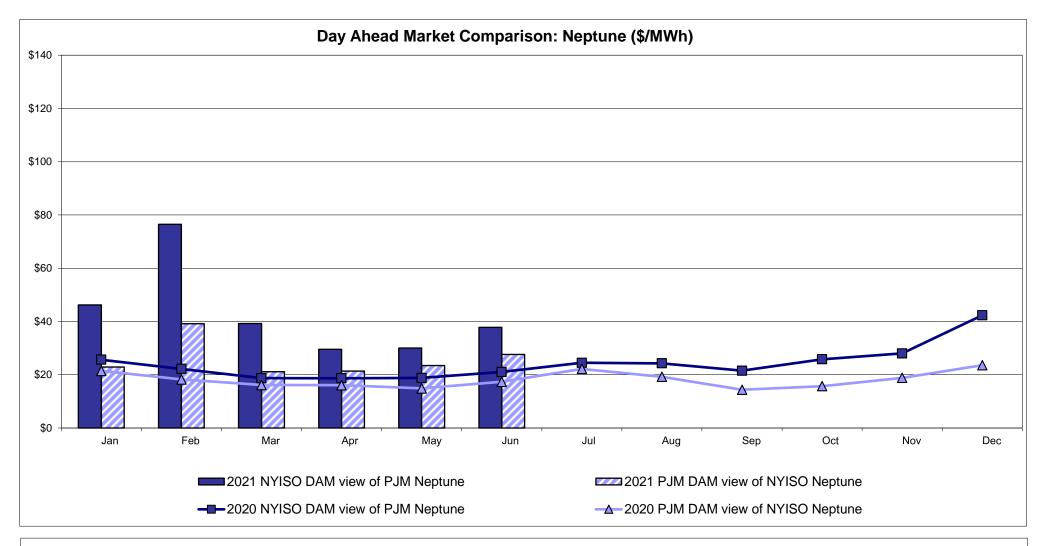
Note:

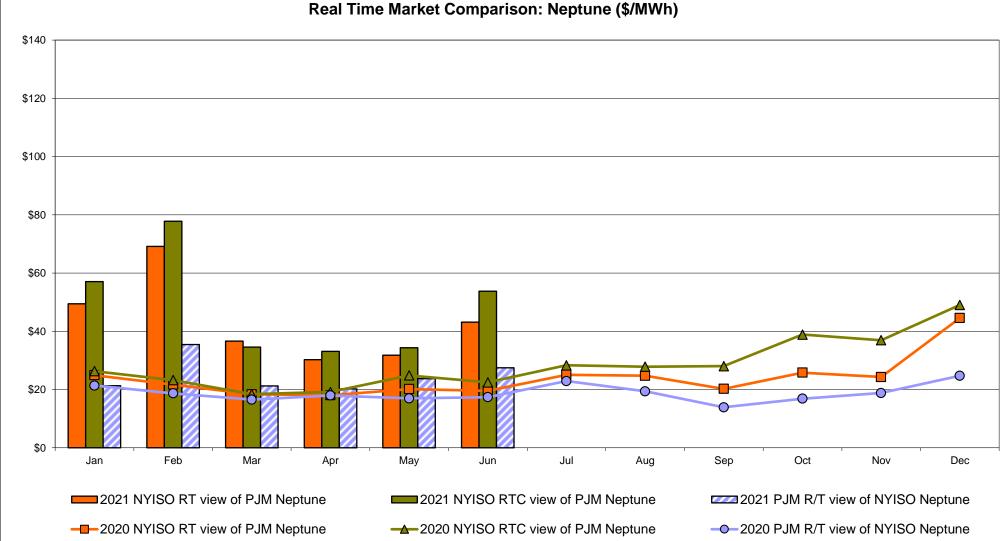
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

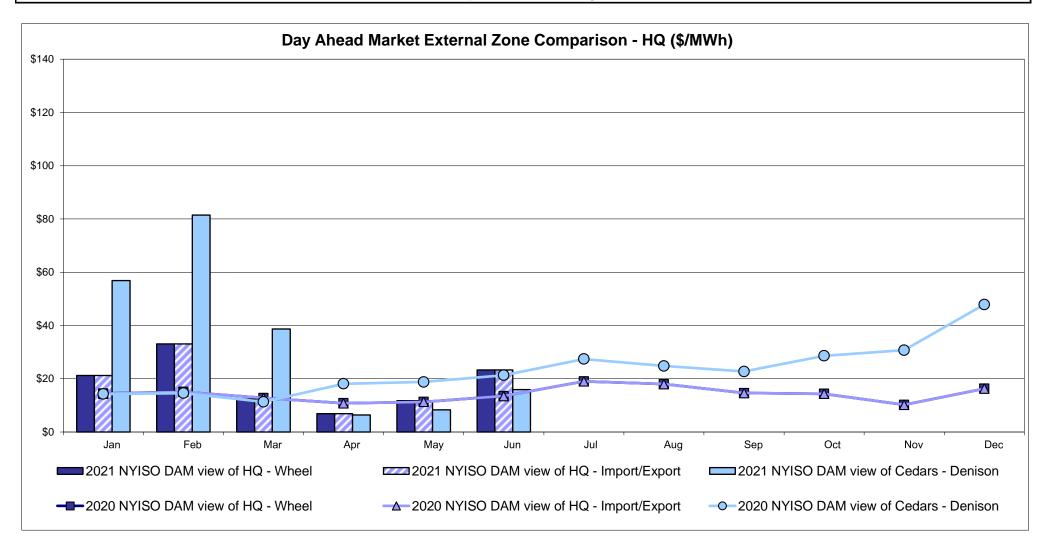
The DAM and R/T prices at the 1385 interface are used for NYISO.

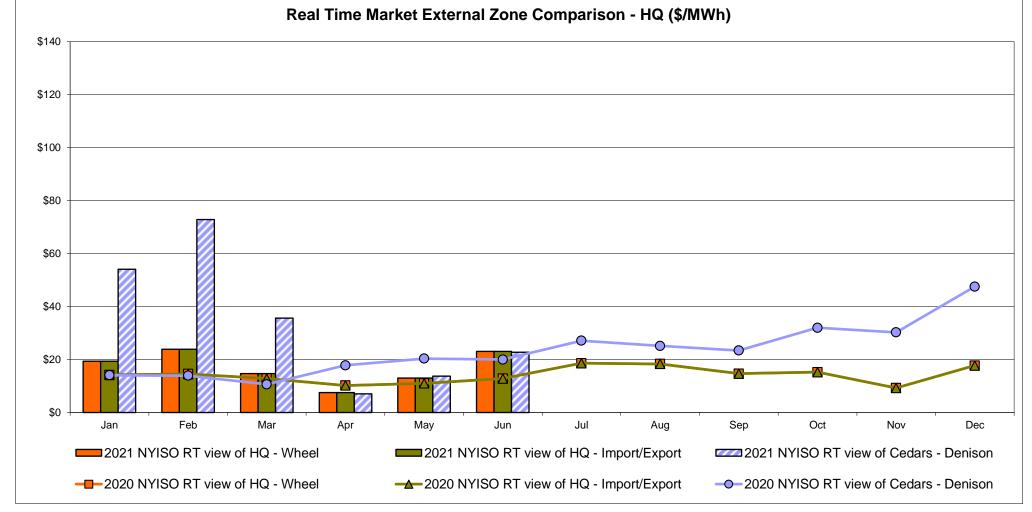






External Comparison Hydro-Quebec

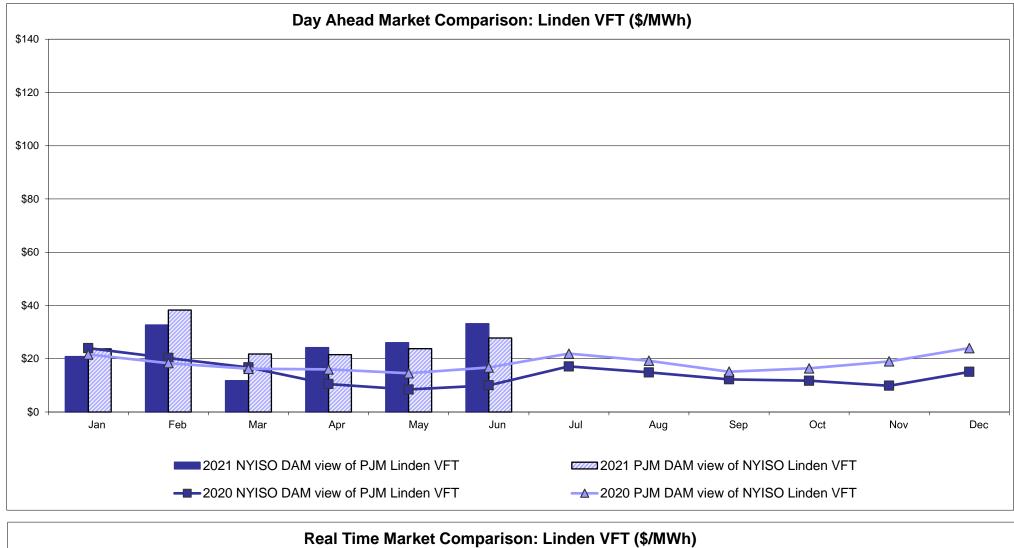


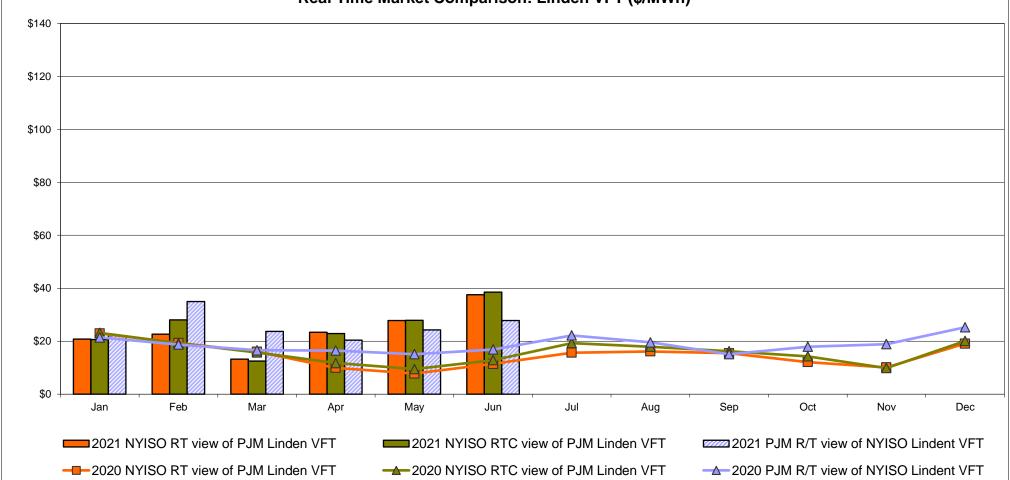


Note:

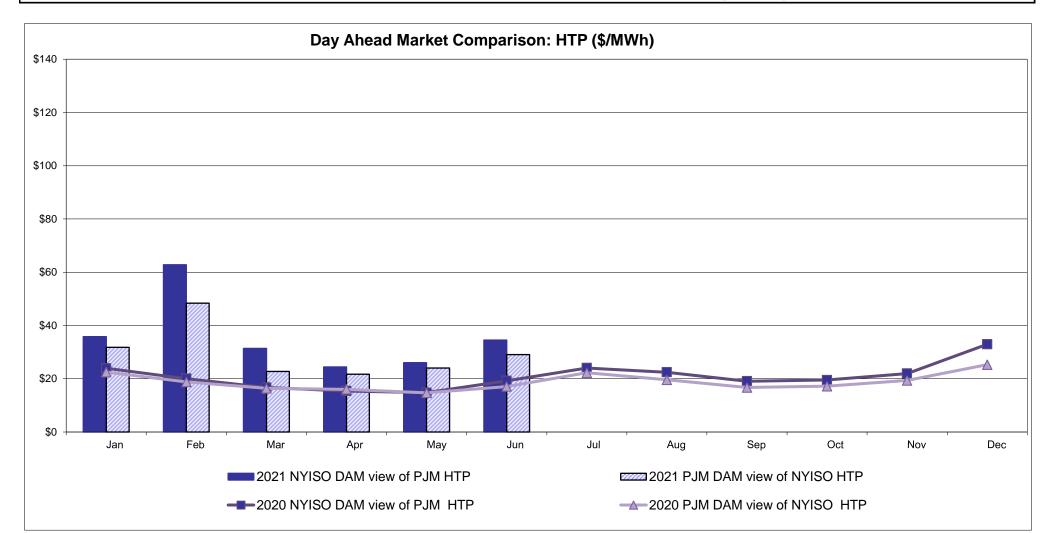
Hydro-Quebec Prices are unavailable.

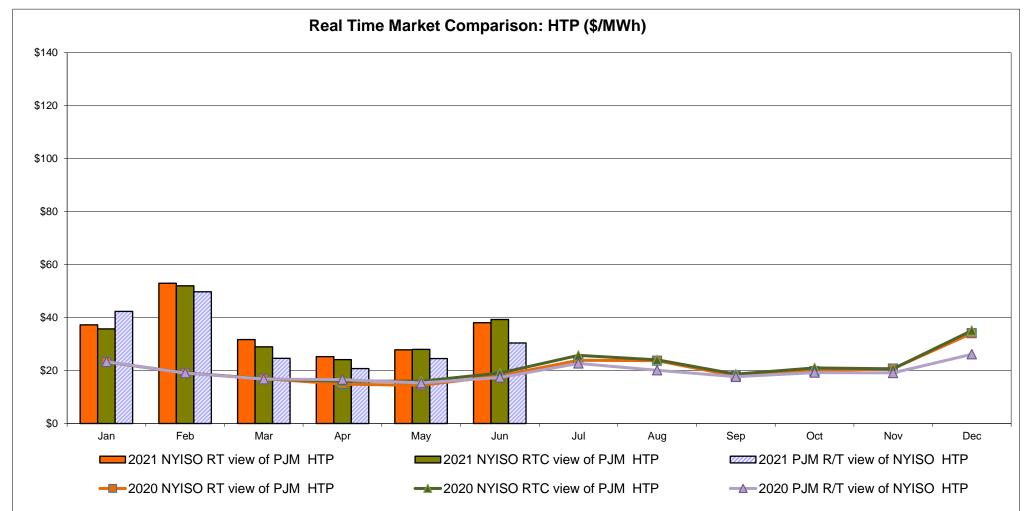
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)



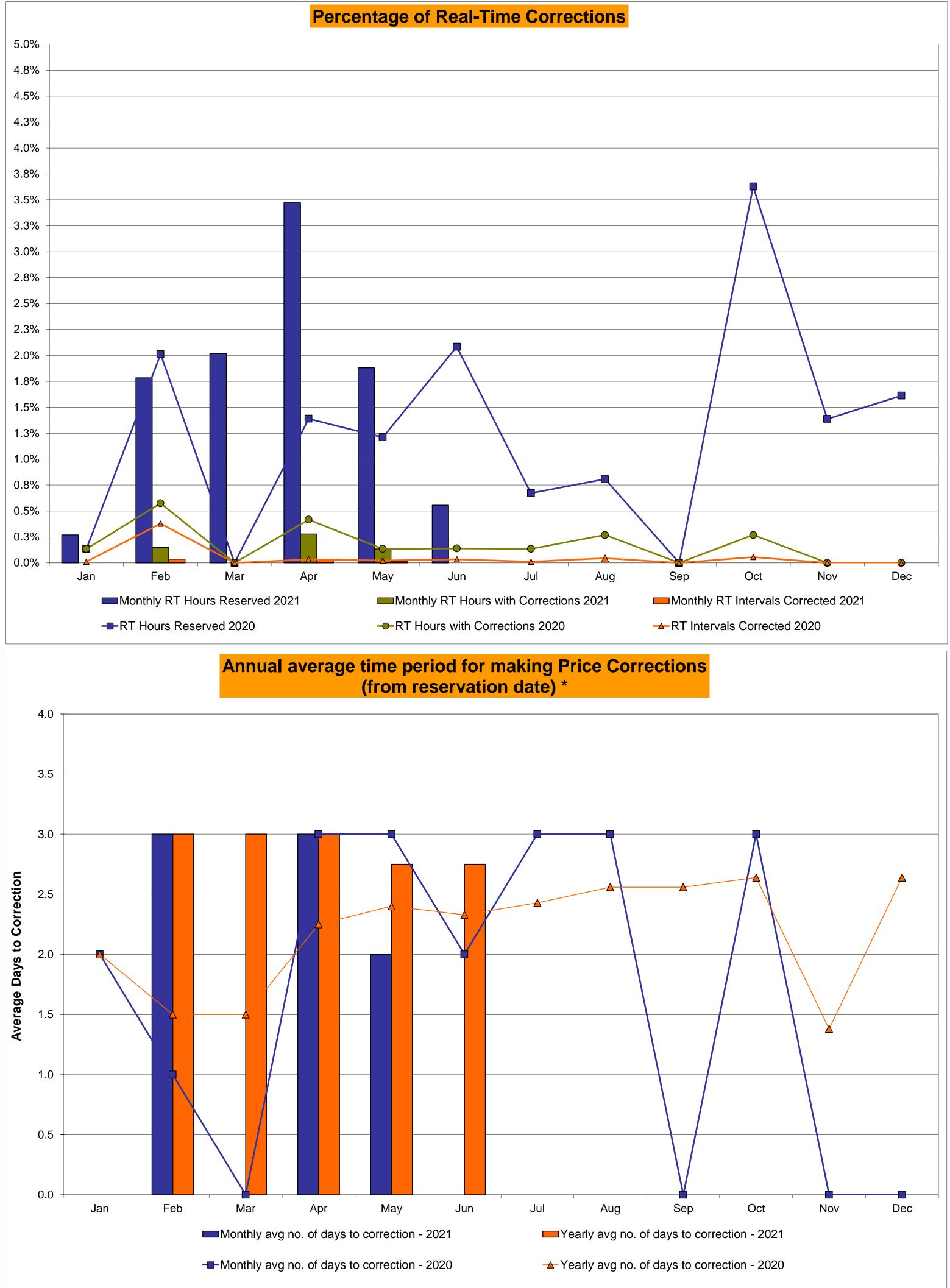


NYISO Real Time Price Correction Statistics

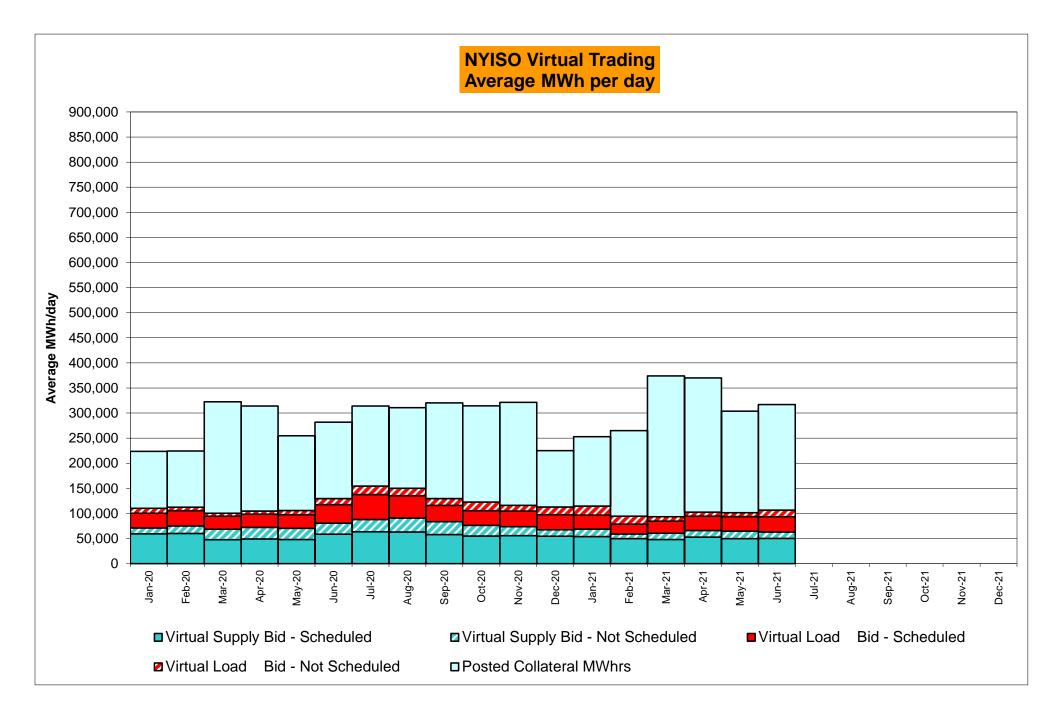
2021 Hour Corrections		<u>January</u>	February	March	<u>April</u>	May	June	July	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Number of hours with corrections	in the month	0	1	0	2	1	0						
Number of hours	in the month	744	672	743	720	744	720						
% of hours with corrections	in the month	0.00%	0.15%	0.00%	0.28%	0.13%	0.00%						
% of hours with corrections	year-to-date	0.00%	0.07%	0.05%	0.10%	0.11%	0.09%						
Interval Corrections	in the second	0	0	0	0	4	0						
Number of intervals corrected	in the month	0	3	0	3	1	0						
Number of intervals	in the month	9,095	8,236	9,100	8,827	9,157	8,813						
% of intervals corrected	in the month	0.00%	0.04%	0.00%	0.03%	0.01%	0.00%						
% of intervals corrected	year-to-date	0.00%	0.02%	0.01%	0.02%	0.02%	0.01%						
Hours Reserved													
Number of hours reserved	in the month	2	12	15	25	14	4						
Number of hours	in the month	744	672	743	720	744	720						
% of hours reserved	in the month	0.27%	1.79%	2.02%	3.47%	1.88%	0.56%						
% of hours reserved	year-to-date	0.27%	0.99%	1.34%	1.88%	1.88%	1.66%						
Days to Correction *	,												
Avg. number of days to correction	in the month	0.00	3.00	0.00	3.00	2.00	0.00						
Avg. number of days to correction	year-to-date	0.00	3.00	3.00	3.00	2.75	2.75						
Days Without Corrections	,												
Days without corrections	in the month	31	27	31	28	30	30						
Days without corrections	year-to-date	31	58	89	117	147	177						
		1		N.4 I	A I	N.4 .	1		A (O O O O O O O O O O		N I I	
<u>2020</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Hour Corrections		January				<u>May</u>	<u>June</u>						
Hour Corrections Number of hours with corrections	in the month	1	4	0	3	1	1	1	2	0	2	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	1 744	4 696	0 743	3 720	1 744	1 720	1 744	2 744	0 720	2 744	0 721	0 744
Hour Corrections Number of hours with corrections		1	4	0	3	1	1	1	2	0	2	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	1 744	4 696	0 743	3 720	1 744	1 720	1 744	2 744	0 720	2 744	0 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	1 744 0.13%	4 696 0.57%	0 743 0.00%	3 720 0.42%	1 744 0.13%	1 720 0.14%	1 744 0.13%	2 744 0.27%	0 720 0.00%	2 744 0.27%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	1 744 0.13%	4 696 0.57%	0 743 0.00%	3 720 0.42%	1 744 0.13%	1 720 0.14%	1 744 0.13%	2 744 0.27%	0 720 0.00%	2 744 0.27%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	1 744 0.13%	4 696 0.57% 0.35%	0 743 0.00% 0.23%	3 720 0.42% 0.28%	1 744 0.13% 0.25%	1 720 0.14% 0.23%	1 744 0.13%	2 744 0.27% 0.22%	0 720 0.00% 0.20%	2 744 0.27% 0.20%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected	in the month in the month year-to-date in the month	1 744 0.13% <u>0.13%</u> 1	4 696 0.57% <u>0.35%</u> 32	0 743 0.00% <u>0.23%</u> 0	3 720 0.42% 0.28% 3	1 744 0.13% <u>0.25%</u> 2	1 720 0.14% <u>0.23%</u> 3	1 744 0.13% <u>0.22%</u> 1	2 744 0.27% <u>0.22%</u> 4	0 720 0.00% <u>0.20%</u> 0	2 744 0.27% <u>0.20%</u> 5	0 721 0.00% 0.19% 0	0 744 0.00% <u>0.17%</u> 0
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month in the month	1 744 0.13% <u>0.13%</u> 1 9,088 0.01%	4 696 0.57% <u>0.35%</u> 32 8,460 0.38%	0 743 0.00% <u>0.23%</u> 0 9,011 0.00%	3 720 0.42% 0.28% 3 8,776 0.03%	1 744 0.13% <u>0.25%</u> 2 9,030 0.02%	1 720 0.14% 0.23% 3 8,826 0.03%	1 744 0.13% 0.22% 1 9,128 0.01%	2 744 0.27% 0.22% 4 9,156 0.04%	0 720 0.00% 0.20% 0 8,810 0.00%	2 744 0.27% <u>0.20%</u> 5 9,048 0.06%	0 721 0.00% 0.19% 0 8,790 0.00%	0 744 0.00% <u>0.17%</u> 0 9,083 0.00%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% 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% <u>0.13%</u> 1 9,088	4 696 0.57% 0.35% 32 8,460	0 743 0.00% <u>0.23%</u> 0 9,011	3 720 0.42% 0.28% 3 8,776	1 744 0.13% <u>0.25%</u> 2 9,030	1 720 0.14% <u>0.23%</u> 3 8,826	1 744 0.13% <u>0.22%</u> 1 9,128	2 744 0.27% <u>0.22%</u> 4 9,156	0 720 0.00% <u>0.20%</u> 0 8,810	2 744 0.27% 0.20% 5 9,048	0 721 0.00% 0.19% 0 8,790	0 744 0.00% <u>0.17%</u> 0 9,083
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month in the month	1 744 0.13% <u>0.13%</u> 1 9,088 0.01%	4 696 0.57% <u>0.35%</u> 32 8,460 0.38% 0.19%	0 743 0.00% <u>0.23%</u> 0 9,011 0.00%	3 720 0.42% 0.28% 3 8,776 0.03%	1 744 0.13% <u>0.25%</u> 2 9,030 0.02%	1 720 0.14% 0.23% 3 8,826 0.03%	1 744 0.13% 0.22% 1 9,128 0.01%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06%	0 720 0.00% 0.20% 0 8,810 0.00%	2 744 0.27% <u>0.20%</u> 5 9,048 0.06%	0 721 0.00% 0.19% 0 8,790 0.00% 0.00%	0 744 0.00% <u>0.17%</u> 0 9,083 0.00% 0.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month year-to-date	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10	1 744 0.13% <u>0.25%</u> 2 9,030 0.02% 0.09%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6	0 720 0.00% 0.20% 0 8,810 0.00% 0.06%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06%	0 721 0.00% 0.19% 0 8,790 0.00% 0.00% 0.05%	0 744 0.00% <u>0.17%</u> 0 9,083 0.00% <u>0.05%</u> 12
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	1 744 0.13% <u>0.13%</u> 1 9,088 0.01%	4 696 0.57% <u>0.35%</u> 32 8,460 0.38% 0.19%	0 743 0.00% <u>0.23%</u> 0 9,011 0.00% 0.12%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10%	1 744 0.13% <u>0.25%</u> 2 9,030 0.02% <u>0.09%</u> 9	1 720 0.14% 0.23% 3 8,826 0.03% 0.08%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27	0 721 0.00% 0.19% 0 8,790 0.00% 0.05%	0 744 0.00% <u>0.17%</u> 0 9,083 0.00% 0.05%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	1 744 0.13% 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 0.06% 27 744 3.63%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39%	0 744 0.00% 0.17% 9,083 0.00% 0.05% 12 744 1.61%
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Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals correctedNumber of hours reservedNumber 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 in the month in the month year-to-date	1 744 0.13% 0.13% 0.13% 1 9,088 0.01% 0.01% 1 744 0.13% 0.13%	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01% 1.04%	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00% 0.69%	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39% 0.86%	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21% 0.93%	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08% 1.12%	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67% 1.06%	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81% 1.02%	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00% 0.00% 0.91%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744 3.63% 1.19%	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39% 1.21%	0 744 0.00% 0.17% 9,083 0.00% 0.05% 12 744 1.61% 1.24%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reserved% of hours reserved <td>in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month</td> <td>1 744 0.13% 0.13% 0.13% 1 9,088 0.01% 0.01% 0.01% 1 744 0.13% 0.13% 0.13% 2.00</td> <td>4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01% 1.04% 1.00</td> <td>0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00% 0.69% 0.00</td> <td>3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39% 0.86% 3.00</td> <td>1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21% 0.93% 3.00</td> <td>1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08% 1.12% 2.00</td> <td>1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67% 1.06% 3.00</td> <td>2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81% 1.02% 3.00</td> <td>0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00% 0.91% 0.00</td> <td>2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 0.06% 27 744 3.63% 1.19% 3.00</td> <td>0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39% 1.21% 0.00</td> <td>0 744 0.00% 0.17% 9,083 0.00% 0.05% 12 744 1.61% 1.24% 0.00</td>	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	1 744 0.13% 0.13% 0.13% 1 9,088 0.01% 0.01% 0.01% 1 744 0.13% 0.13% 0.13% 2.00	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696 2.01% 1.04% 1.00	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743 0.00% 0.69% 0.00	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720 1.39% 0.86% 3.00	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744 1.21% 0.93% 3.00	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720 2.08% 1.12% 2.00	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744 0.67% 1.06% 3.00	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744 0.81% 1.02% 3.00	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720 0.00% 0.91% 0.00	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 0.06% 27 744 3.63% 1.19% 3.00	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721 1.39% 1.21% 0.00	0 744 0.00% 0.17% 9,083 0.00% 0.05% 12 744 1.61% 1.24% 0.00
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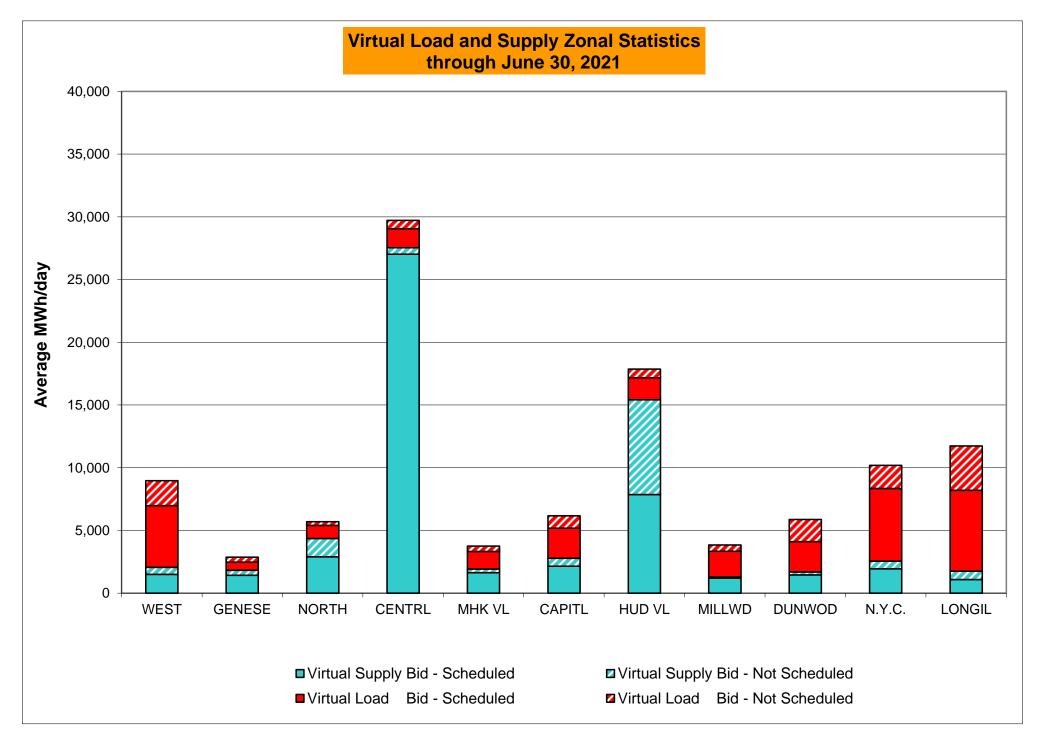
*Calendar days from reservation date; for June 2018 forward, business days from market date

May/June 2017 Hours Reserved data has been updated for the July 2017 Monthly Market Operations Report.



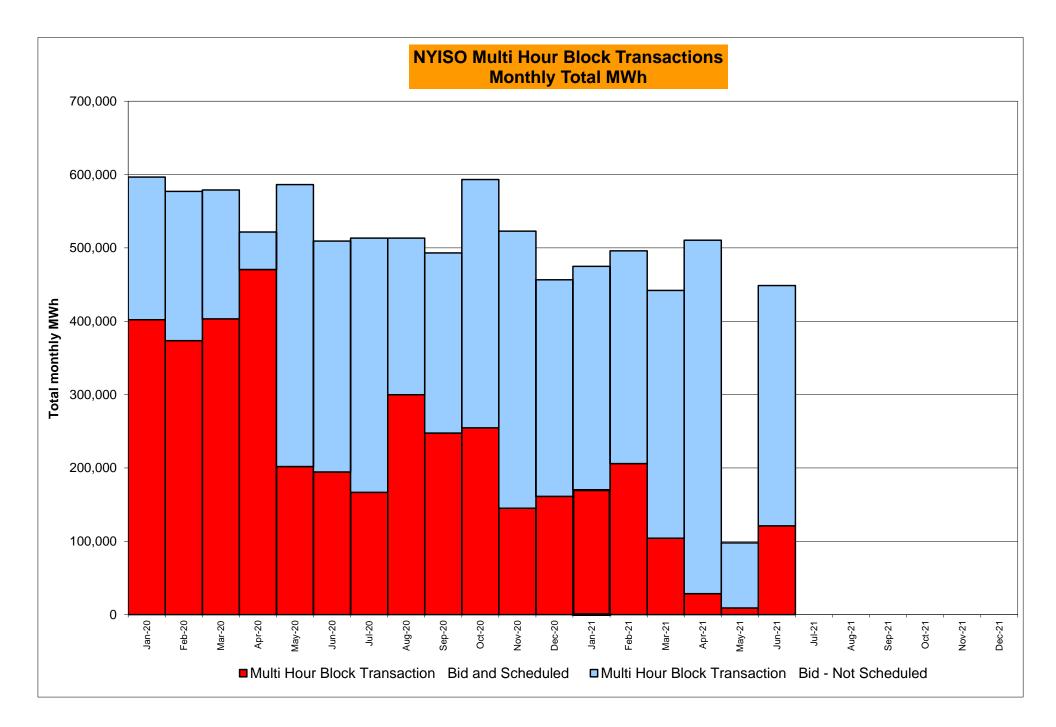
*Calendar days from reservation date; for June 2018 forward, business days from market date

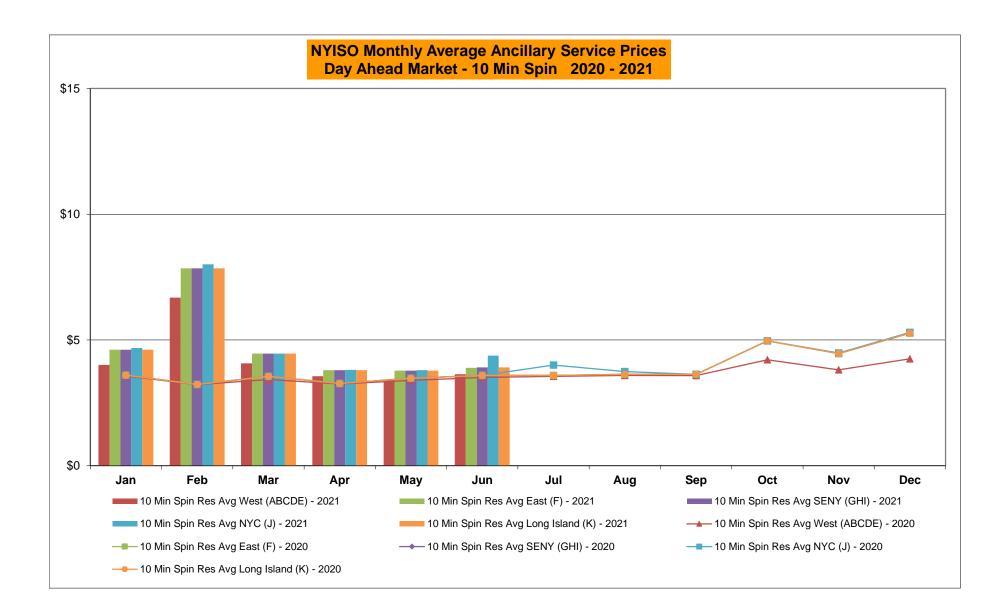


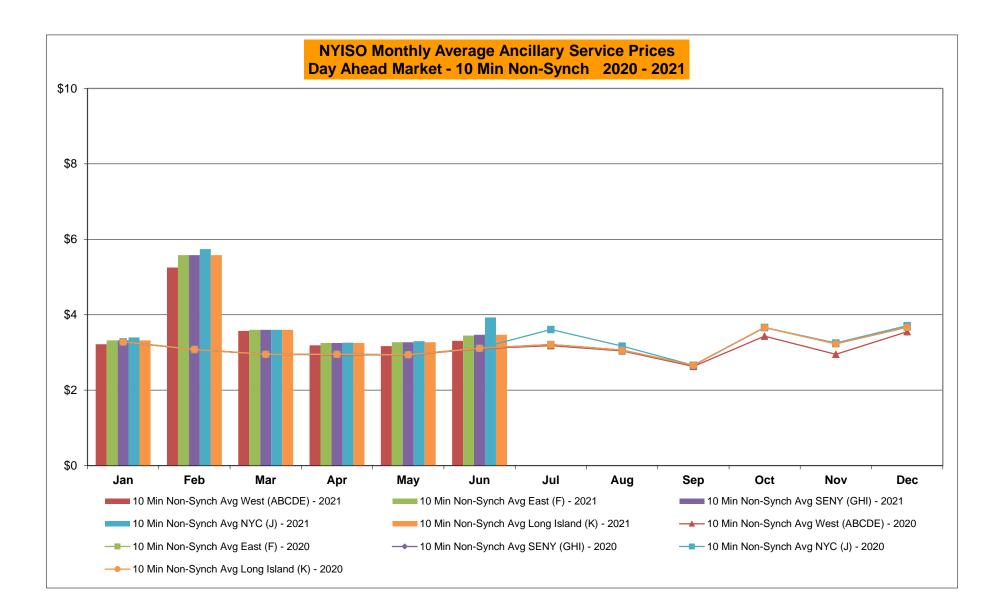


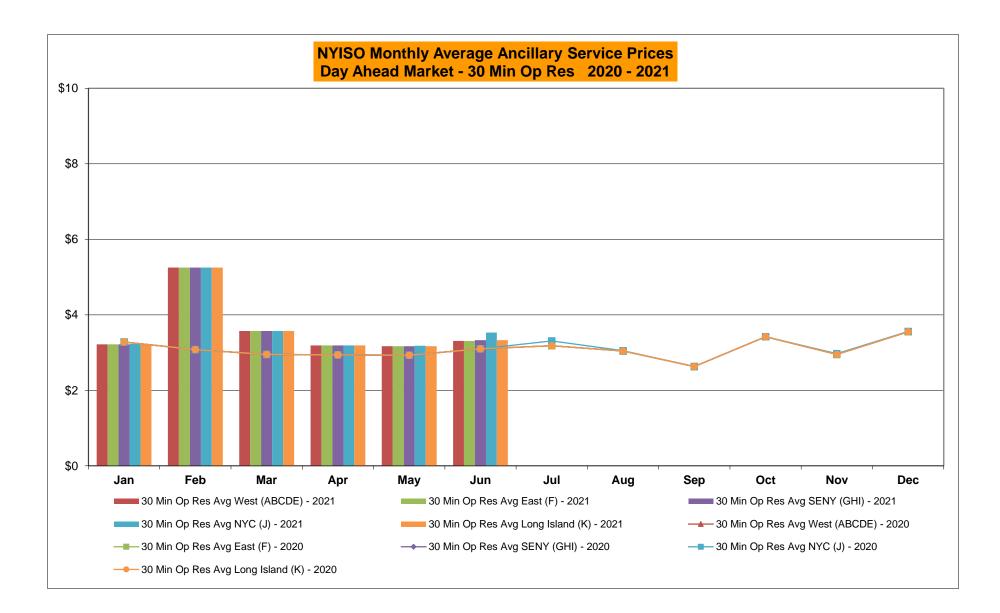
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2021

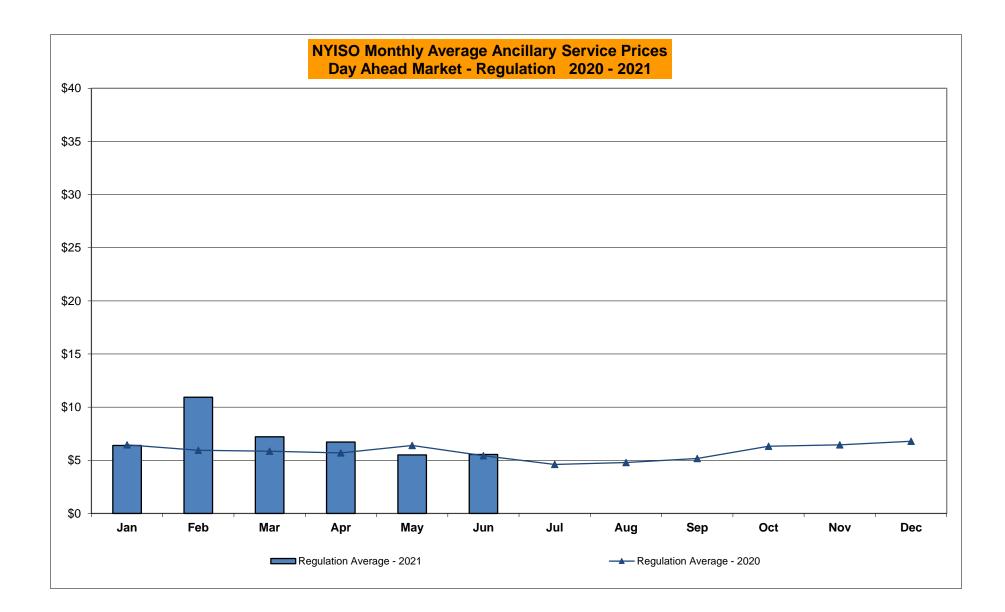
		Virtual L	oad Bid	Virtual Su	Not			Virtual L	Load Bid	Virtual Su	Not			Virtual L	oad Bid	Virtual Su	upply Bid Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	
WEST	Jan-21	6,262		2,018	1,076	MHK VL	Jan-21	1,537		1,967	531	DUNWOD	Jan-21	1,881	2,339	2,000	
	Feb-21	4,588	1,544	1,842	959		Feb-21	1,031	584	2,081	392		Feb-21	912	1,806	2,015	
	Mar-21	5,696	840	1,144	893		Mar-21	1,669		1,402			Mar-21	1,303	817	1,780	
	Apr-21	6,747	1,100	1,948	873		Apr-21	1,741	366	1,982			Apr-21	1,519	638	2,166	
	May-21	7,289	1,632	1,432	630		May-21	1,279	353	2,009	447		May-21	3,219	868	1,347	461
	Jun-21	4,916	1,989	1,498	559		Jun-21	1,400	438	1,637	283		Jun-21	2,411	1,770	1,455	233
	Jul-21						Jul-21						Jul-21				
	Aug-21						Aug-21						Aug-21				
	Sep-21						Sep-21						Sep-21				
	Oct-21						Oct-21						Oct-21				
	Nov-21						Nov-21						Nov-21				
	Dec-21						Dec-21						Dec-21				
GENESE	Jan-21	1,117	329	1,085	853	CAPITL	Jan-21	3,046		2,207	792	N.Y.C.	Jan-21	3,486	2,580	2,503	
	Feb-21	857	390	1,310	617		Feb-21	2,483		2,065			Feb-21	1,983	2,475	2,275	
	Mar-21	817	295	1,433	833		Mar-21	3,192		2,230	1,041		Mar-21	2,149	1,385	2,465	
	Apr-21	1,396		1,251	834		Apr-21	2,770		3,404			Apr-21	2,116	602	3,175	
	May-21	862		1,680	486		May-21	1,417	532	2,776			May-21	2,664	678	2,697	
	Jun-21	653	393	1,426	390		Jun-21	2,396	994	2,144	636		Jun-21	5,791	1,832	1,941	620
	Jul-21						Jul-21						Jul-21				
	Aug-21						Aug-21						Aug-21				
	Sep-21						Sep-21						Sep-21				
	Oct-21 Nov-21						Oct-21 Nov-21						Oct-21 Nov-21				
	Dec-21					_	Dec-21						Dec-21				
NORTH	Jan-21	830	498	3,280	1,220	HUD VL	Jan-21	1,666	1,215	5,917	7,429	LONGIL	Jan-21	4,341	4,976	3,261	686
-	Feb-21	405		2,654	1,258		Feb-21	1,685		4,967	2,247		Feb-21	3,899	3,560	1,758	
	Mar-21	641	125	3,152	2,052		Mar-21	1,013		5,555			Mar-21	4,846	2,196	2,232	
	Apr-21	1,031	278	3,310	1,622		Apr-21	1,096	411	6,547	5,166		Apr-21	6,288	1,581	2,121	
	May-21	1,041	164	3,171	1,703		May-21	1,658	425	5,040	8,201		May-21	6,112	1,898	1,422	961
	Jun-21	1,051	294	2,897	1,454		Jun-21	1,758	692	7,862	7,556		Jun-21	6,451	3,532	1,082	663
	Jul-21						Jul-21						Jul-21				
	Aug-21						Aug-21						Aug-21				
	Sep-21						Sep-21						Sep-21				
	Oct-21						Oct-21						Oct-21				
	Nov-21 Dec-21					_	Nov-21 Dec-21						Nov-21 Dec-21				
CENTRL	Jan-21	2,124	938	28,034	1,094	MILLWD	Jan-21	1,368		1,820		NYISO	Jan-21	27,659	17,816	54,093	
	Feb-21	1,357	1,102 541	27,531	954 888	_	Feb-21		541 240	1,463			Feb-21 Mar-21	19,732	15,526	49,963	
	Mar-21 Apr-21	2,108 3,179		24,874 25,006	1,249	_	Mar-21 Apr-21	731		1,732 2,106			Apr-21	24,164 28,658	8,780 7,818	47,999 53,015	
	May-21	1,973		25,006	433	_	May-21			1,386			May-21	28,658	7,818	53,015	
	Jun-21	1,973		27,134	512	_	Jun-21	2,049		1,300			Jun-21		13,112	50,094	
	Jul-21	1,500	012	21,029	512		Jul-21	,	500	1,203			Jul-21	50,505	13,112	50,174	12,332
	Aug-21						Aug-21						Aug-21				
	Sep-21						Sep-21						Sep-21				
	Oct-21					-	Oct-21					—	Oct-21				
	Nov-21					—	Nov-21						Nov-21				
	Dec-21					—	Dec-21						Dec-21				

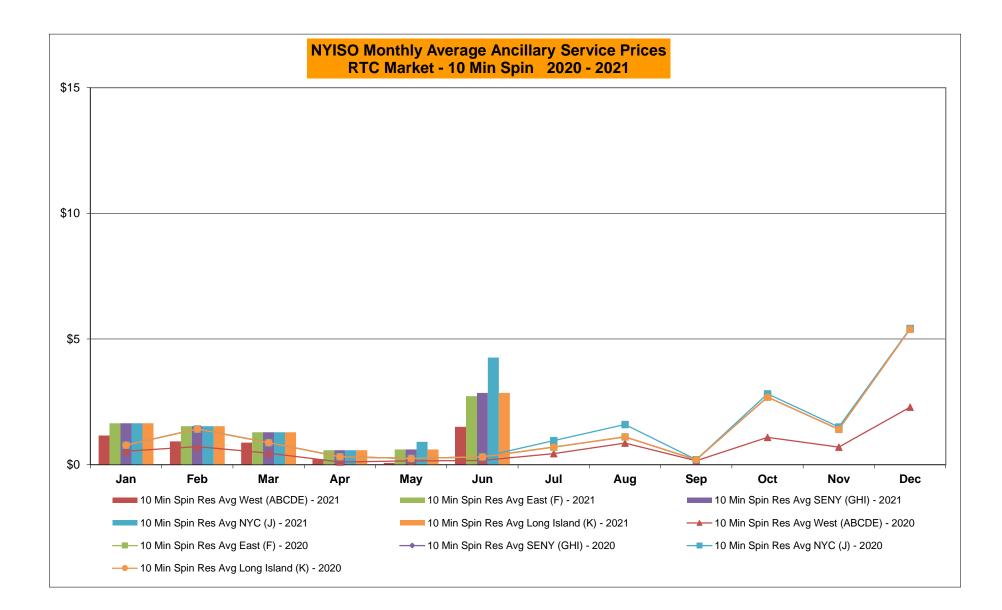


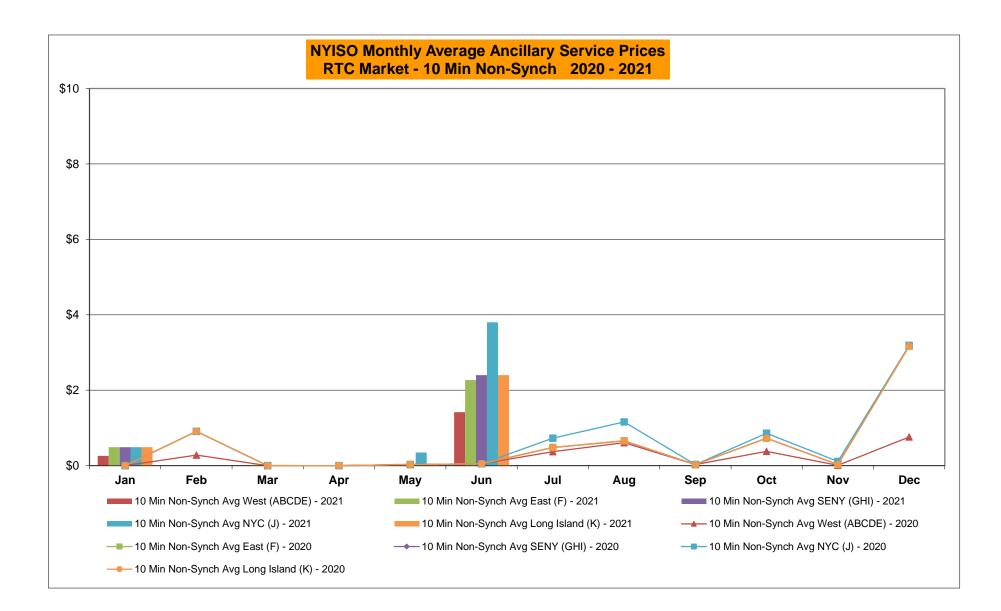


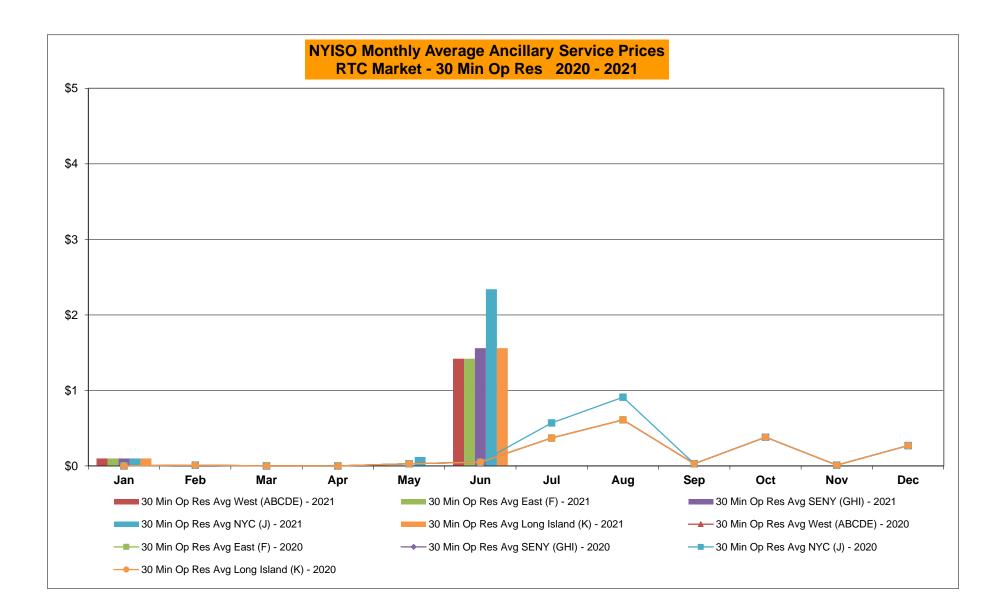


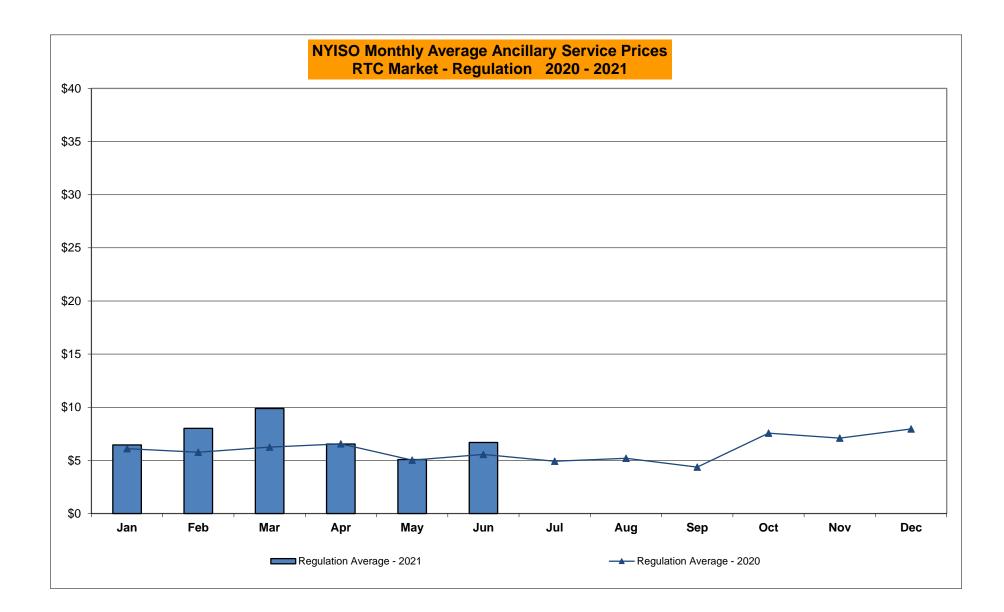


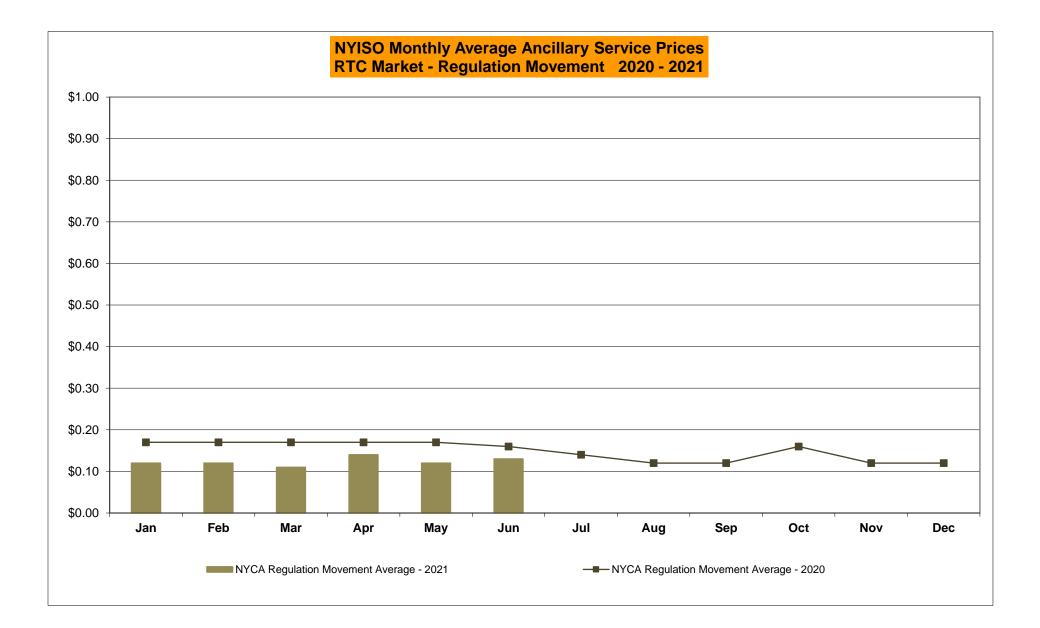


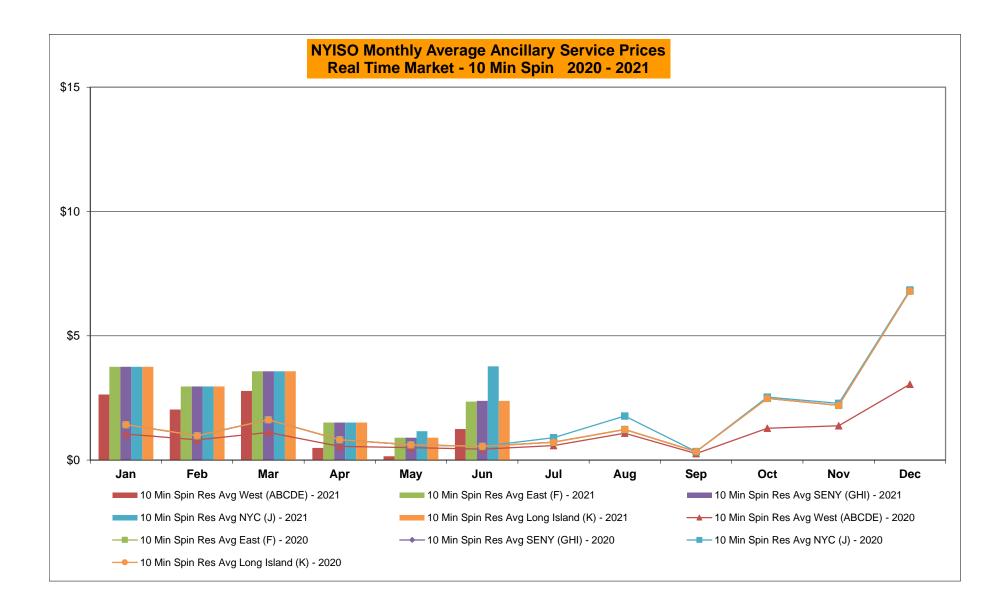


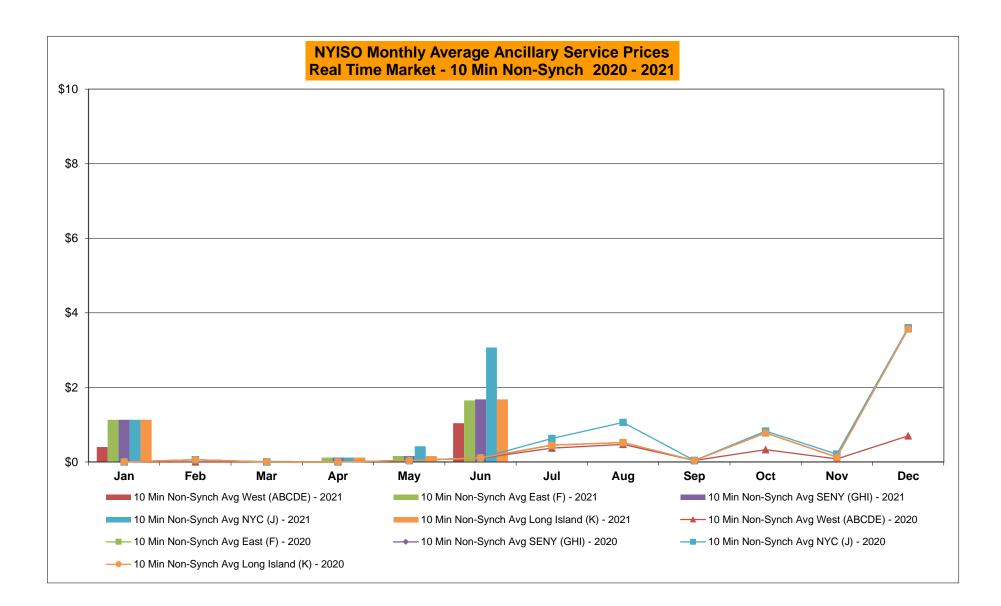


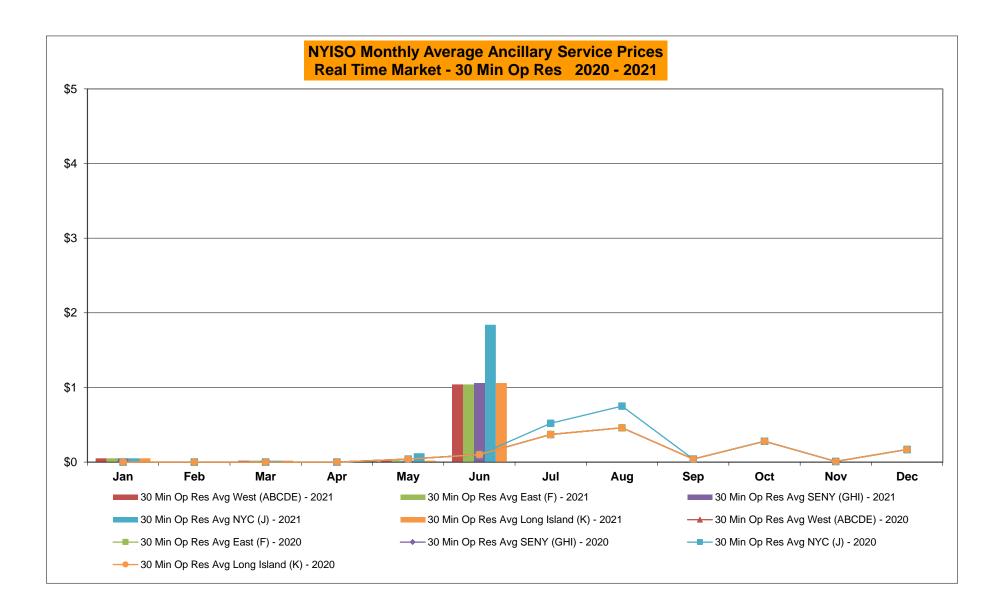


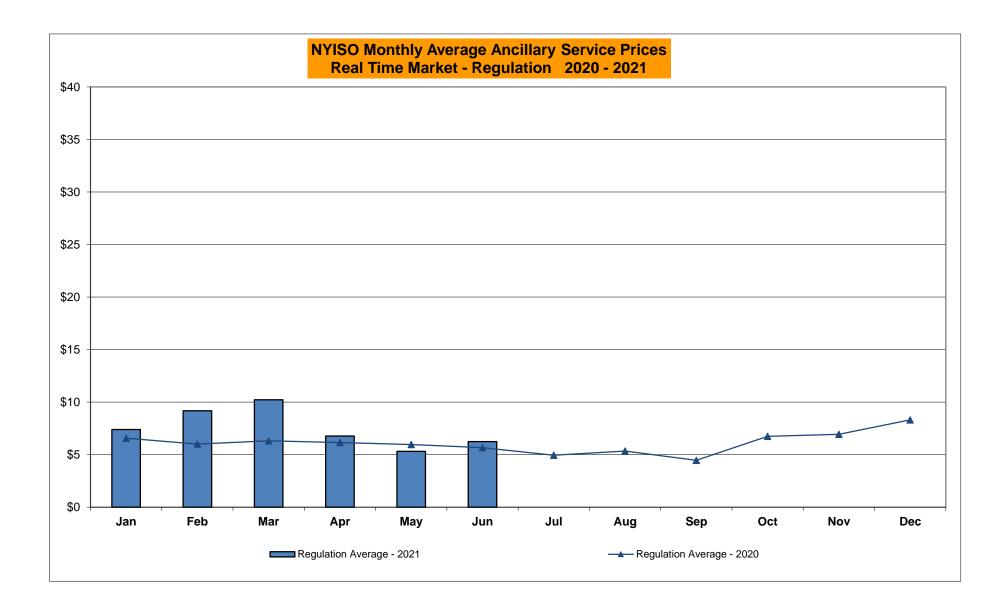


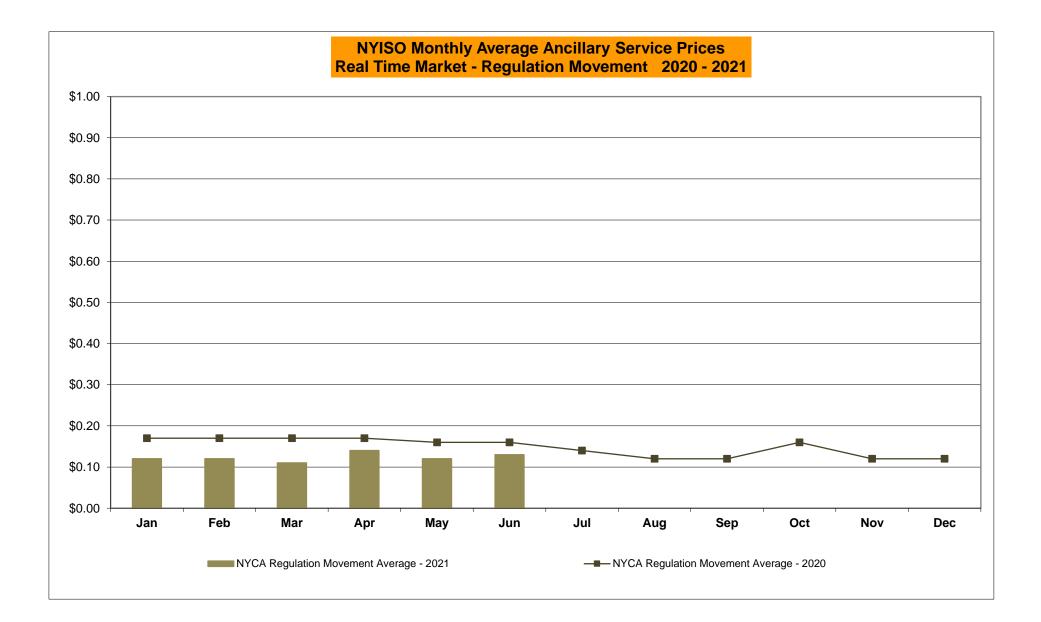












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<u>2021</u>	January	February	March	<u>April</u>	May	June	July	<u>August</u>	<u>September</u>	<u>(</u>
Day Ahead Market										
10 Min Spin Long Island (K)	4.61	7.85	4.46	3.80	3.78	3.91				
10 Min Spin NYC (J)	4.68	8.01	4.46	3.81	3.80	4.38				
10 Min Spin SENY (GHI)	4.61	7.85	4.46	3.80	3.78	3.91				
10 Min Spin East (F)	4.61	7.85	4.46	3.80	3.78	3.89				
10 Min Spin West (ABCDE)	4.01	6.68	4.07	3.56	3.43	3.64				
10 Min Non Synch Long Island (K)	3.32	5.58	3.60	3.25	3.27	3.47				
10 Min Non Synch NYC (J)	3.40	5.74	3.60	3.26	3.30	3.93				
10 Min Non Synch SENY (GHI)	3.32	5.58	3.60	3.25	3.27	3.47				
10 Min Non Synch East (F)	3.32	5.58	3.60	3.25	3.27	3.45				
10 Min Non Synch West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31				
30 Min Long Island (K)	3.22	5.25	3.57	3.19	3.17	3.33				
30 Min NYC (J)	3.23	5.25	3.57	3.19	3.18	3.53				
30 Min SENY (GHI)	3.22	5.25	3.57	3.19	3.17	3.33				
30 Min East (F)	3.22	5.25	3.57	3.19	3.17	3.31				
30 Min West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31				
Regulation	6.40	10.93	7.21	6.72	5.50	5.55				
<u>2020</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>(</u>
Day Ahead Market										
10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	
10 Min Spin NYC (J)	3.60	3.23	3.55	3.27	3.48	3.64	4.00	3.74	3.63	
10 Min Spin SENY (GHI)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	
10 Min Spin East (F)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	
10 Min Spin West (ABCDE)	3.57	3.22	3.43	3.25	3.39	3.51	3.55	3.59	3.58	
10 Min Non Synch Long Island (K)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	
10 Min Non Synch NYC (J)	3.28	3.08	2.95	2.95	2.94	3.17	3.61	3.17	2.66	
10 Min Non Synch SENY (GHI)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	
10 Min Non Synch East (F)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	
10 Min Non Synch West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
30 Min Long Island (K)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
30 Min NYC (J)	3.28	3.08	2.95	2.94	2.93	3.10	3.31	3.05	2.63	
30 Min SENY (GHI)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
30 Min East (F)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
30 Min West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
Regulation	6.46	5.94	5.86	5.70	6.40	5.44	4.61	4.79	5.17	

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

<u>October</u>

November

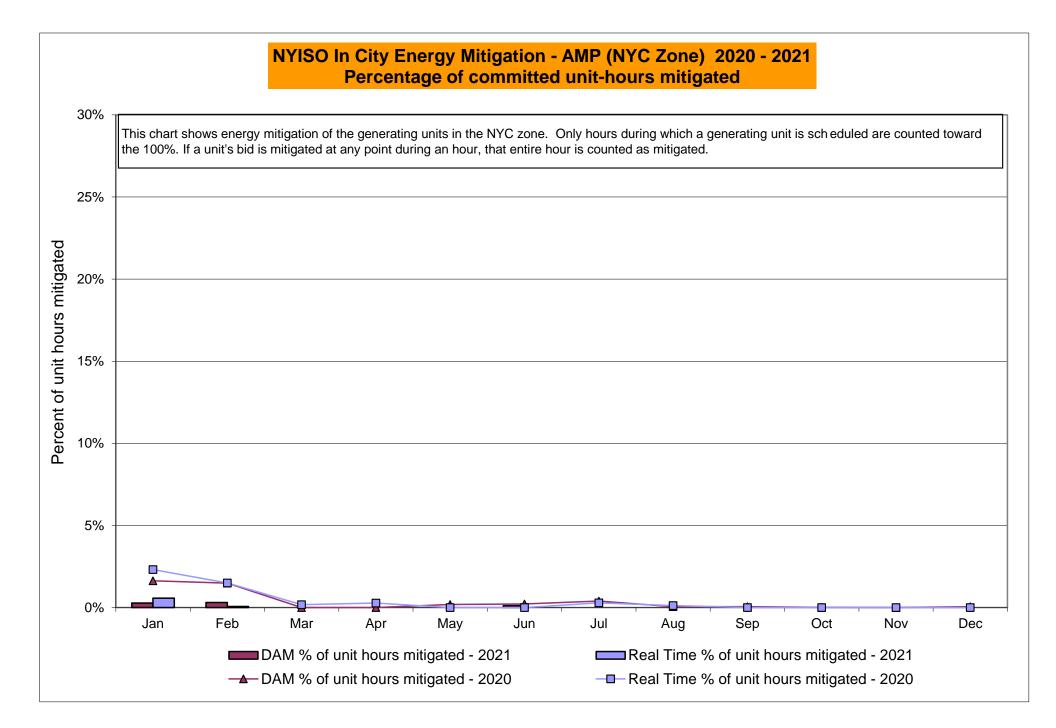
<u>December</u>

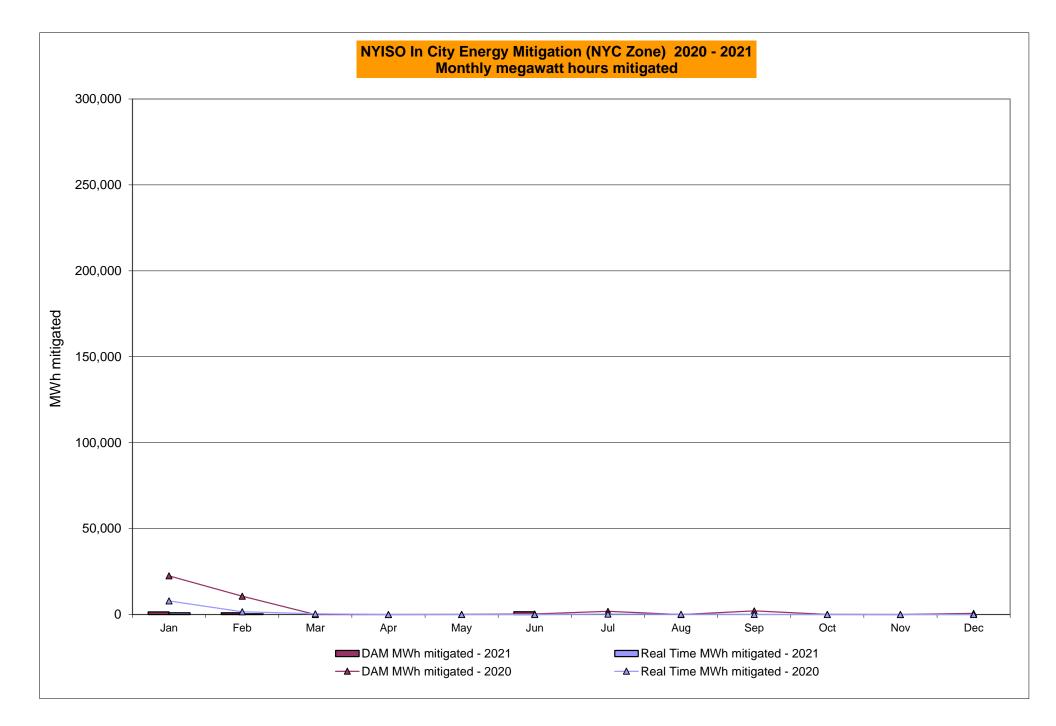
<u>October</u>	November	<u>December</u>				
4.96	4.46	5.27				
4.96	4.48	5.30				
4.96	4.46	5.27				
4.96	4.46	5.27				
4.21	3.81	4.25				
3.66	3.23	3.67				
3.66	3.25	3.71				
3.66	3.23	3.67				
3.66	3.23	3.67				
3.43	2.95	3.55				
3.42	2.95	3.55				
3.42	2.97	3.56				
3.42	2.95	3.55				
3.42	2.95	3.55				
3.42	2.95	3.55				
6.32	6.45	6.79				

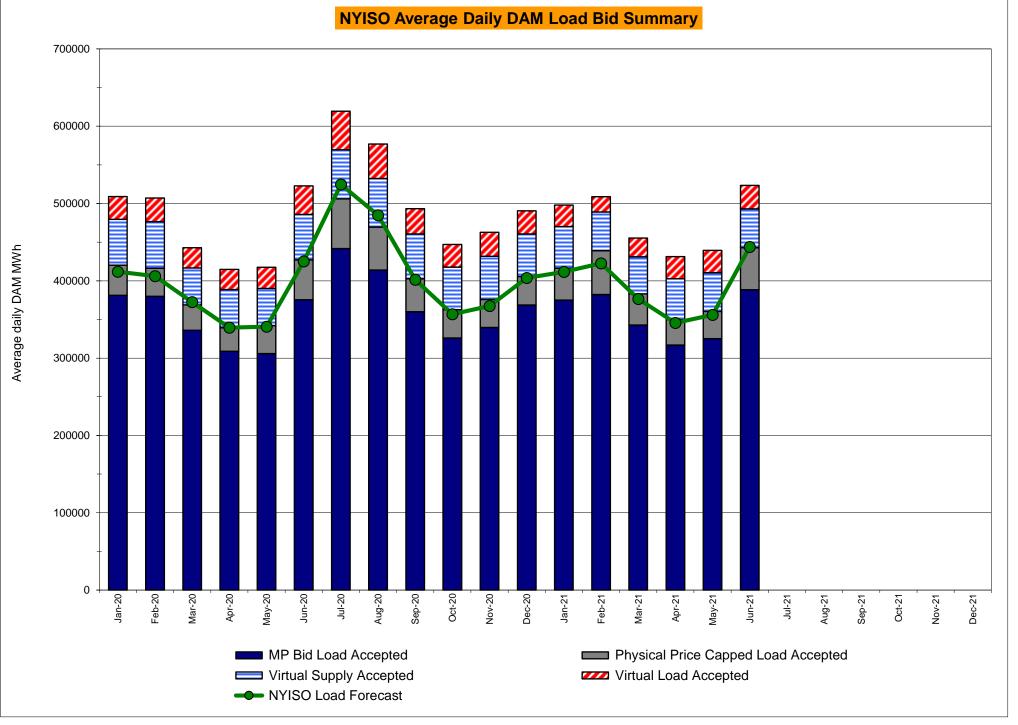
	NYISO Mark	ets Ancil	lary Serv	vices Sta	tistics -	Unweigh	ted Pric	e (\$/MV	VH) - RTC			
<u>2021</u>	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
RTC Market		<u> </u>	<u></u>	<u> </u>	<u></u>	<u></u>	<u>••</u>	<u></u>	<u></u>	0010001		<u></u>
10 Min Spin Long Island (K)	1.65	1.53	1.29	0.58	0.61	2.86						
10 Min Spin NYC (J)	1.65	1.53	1.29	0.58	0.91	4.26						
10 Min Spin SENY (GHI)	1.65	1.53	1.29	0.58	0.61	2.86						
10 Min Spin East (F)	1.65	1.53	1.29	0.58	0.61	2.73						
10 Min Spin West (ABCDE)	1.16	0.93	0.88	0.22	0.07	1.51						
10 Min Non Synch Long Island (K)	0.49	0.00	0.02	0.00	0.05	2.40						
10 Min Non Synch NYC (J)	0.49	0.00	0.02	0.00	0.35	3.80						
10 Min Non Synch SENY (GHI)	0.49	0.00	0.02	0.00	0.05	2.40						
10 Min Non Synch East (F)	0.49	0.00	0.02	0.00	0.05	2.27						
10 Min Non Synch West (ABCDE)	0.26	0.00	0.01	0.00	0.00	1.42						
30 Min Long Island (K)	0.10	0.00	0.01	0.00	0.00	1.56						
30 Min NYC (J)	0.10	0.00	0.01	0.00	0.12	2.34						
30 Min SENY (GHI)	0.10	0.00	0.01	0.00	0.00	1.56						
30 Min East (F)	0.10	0.00	0.01	0.00	0.00	1.42						
30 Min West (ABCDE)	0.10	0.00	0.01	0.00	0.00	1.42						
Regulation	6.46	8.02	9.88	6.54	5.08	6.69						
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13						
<u>2020</u>	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
RTC Market		<u></u>	<u></u>		<u></u>	<u></u>	<u></u>		<u></u>		<u></u>	
10 Min Spin Long Island (K)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin NYC (J)	0.78	1.46	0.88	0.32	0.26	0.31	0.96	1.60	0.20	2.82	1.50	5.42
10 Min Spin SENY (GHI)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin East (F)	0.78	1.42	0.88	0.32	0.25	0.31	0.70	1.11	0.20	2.69	1.41	5.40
10 Min Spin West (ABCDE)	0.54	0.72	0.46	0.11	0.15	0.17	0.44	0.86	0.16	1.09	0.70	2.29
10 Min Non Synch Long Island (K)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch NYC (J)	0.00	0.95	0.00	0.00	0.04	0.06	0.73	1.16	0.03	0.86	0.11	3.19
10 Min Non Synch SENY (GHI)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch East (F)	0.00	0.91	0.00	0.00	0.03	0.05	0.48	0.66	0.03	0.73	0.03	3.17
10 Min Non Synch West (ABCDE)	0.00	0.28	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.76
30 Min Long Island (K)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min NYC (J)	0.00	0.01	0.00	0.00	0.03	0.05	0.57	0.91	0.03	0.38	0.01	0.27
30 Min SENY (GHI)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min East (F)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
30 Min West (ABCDE)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	0.38	0.01	0.27
Regulation	6.11	5.77	6.25	6.56	5.02	5.56	4.92	5.20	4.37	7.57	7.09	7.96
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.17	0.16	0.14	0.12	0.12	0.16	0.12	0.12

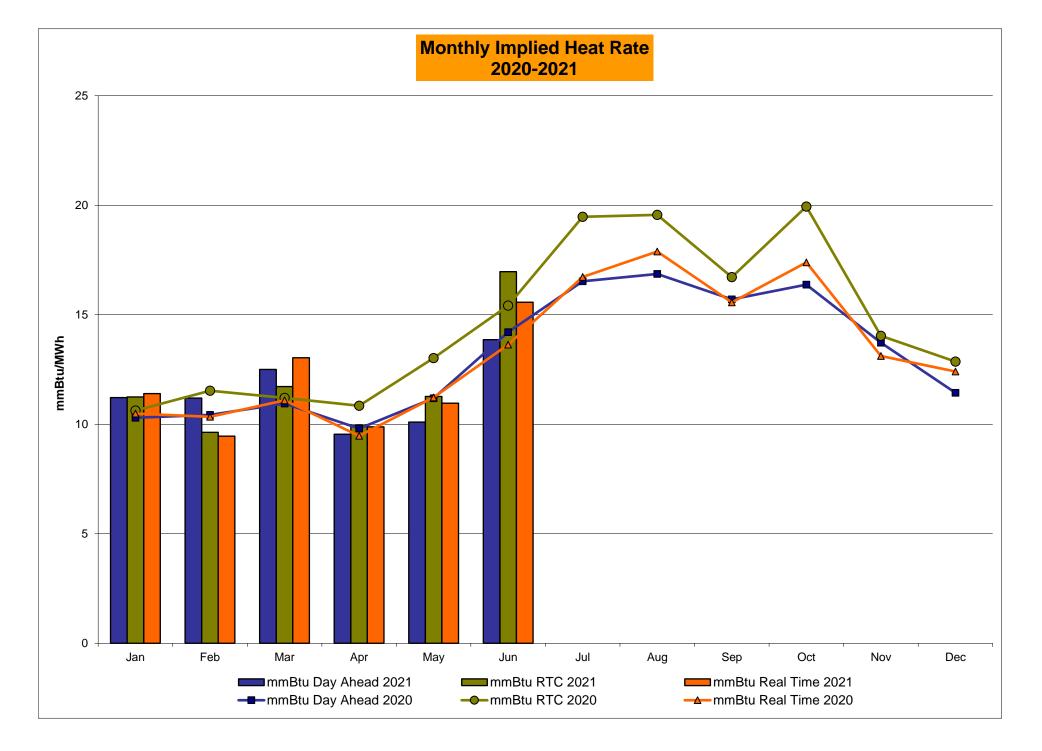
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NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT												
<u>2021</u>	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	December
Real Time Market												
10 Min Spin Long Island (K)	3.75	2.96	3.57	1.51	0.90	2.38						
10 Min Spin NYC (J)	3.75	2.96	3.57	1.51	1.16	3.77						
10 Min Spin SENY (GHI)	3.75	2.96	3.57	1.51	0.90	2.38						
10 Min Spin East (F)	3.75	2.96	3.57	1.51	0.90	2.35						
10 Min Spin West (ABCDE)	2.64	2.03	2.78	0.49	0.15	1.25						
10 Min Non Synch Long Island (K)	1.13	0.02	0.03	0.12	0.16	1.68						
10 Min Non Synch NYC (J)	1.13	0.02	0.03	0.12	0.42	3.07						
10 Min Non Synch SENY (GHI)	1.13	0.02	0.03	0.12	0.16	1.68						
10 Min Non Synch East (F)	1.13	0.02	0.03	0.12	0.16	1.65						
10 Min Non Synch West (ABCDE)	0.40	0.00	0.02	0.00	0.02	1.04						
30 Min Long Island (K)	0.05	0.00	0.02	0.00	0.02	1.06						
30 Min NYC (J)	0.05	0.00	0.02	0.00	0.12	1.84						
30 Min SENY (GHI)	0.05	0.00	0.02	0.00	0.02	1.06						
30 Min East (F)	0.05	0.00	0.02	0.00	0.02	1.04						
30 Min West (ABCDE)	0.05	0.00	0.02	0.00	0.02	1.04						
Regulation	7.39	9.17	10.23	6.78	5.31	6.24						
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13						
<u>2020</u>	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	July	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Real Time Market												
10 Min Spin Long Island (K)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin NYC (J)	1.42	0.98	1.62	0.82	0.63	0.56	0.90	1.77	0.34	2.53	2.28	6.84
10 Min Spin SENY (GHI)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin East (F)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	2.48	2.20	6.80
10 Min Spin West (ABCDE)	1.05	0.81	1.11	0.55	0.50	0.44	0.58	1.08	0.26	1.28	1.38	3.05
10 Min Non Synch Long Island (K)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch NYC (J)	0.00	0.06	0.00	0.00	0.07	0.12	0.63	1.06	0.04	0.83	0.21	3.60
10 Min Non Synch SENY (GHI)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch East (F)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	0.78	0.13	3.57
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.47	0.04	0.33	0.08	0.70
30 Min Long Island (K)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min NYC (J)	0.00	0.00	0.00	0.00	0.04	0.10	0.52	0.75	0.04	0.28	0.01	0.17
30 Min SENY (GHI)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min East (F)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
30 Min West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	0.28	0.01	0.17
Regulation	6.57	6.00	6.32	6.16	5.96	5.67	4.94	5.34	4.46	6.75	6.93	8.31
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.16	0.16	0.14	0.12	0.12	0.16	0.12	0.12

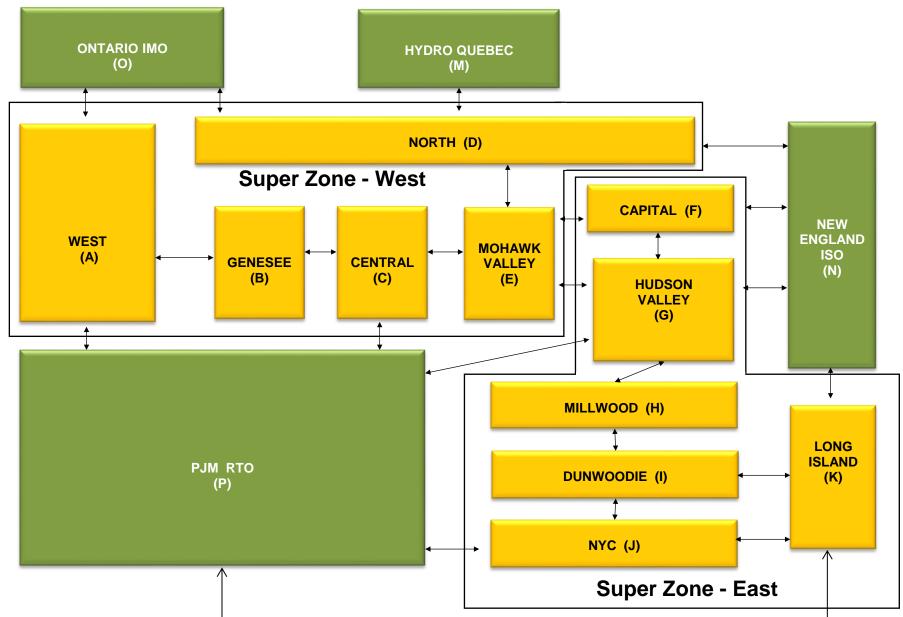








NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 7/9/2021 4:11 PM

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

Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system



