

# **Market Operations Report**

#### Rana Mukerji

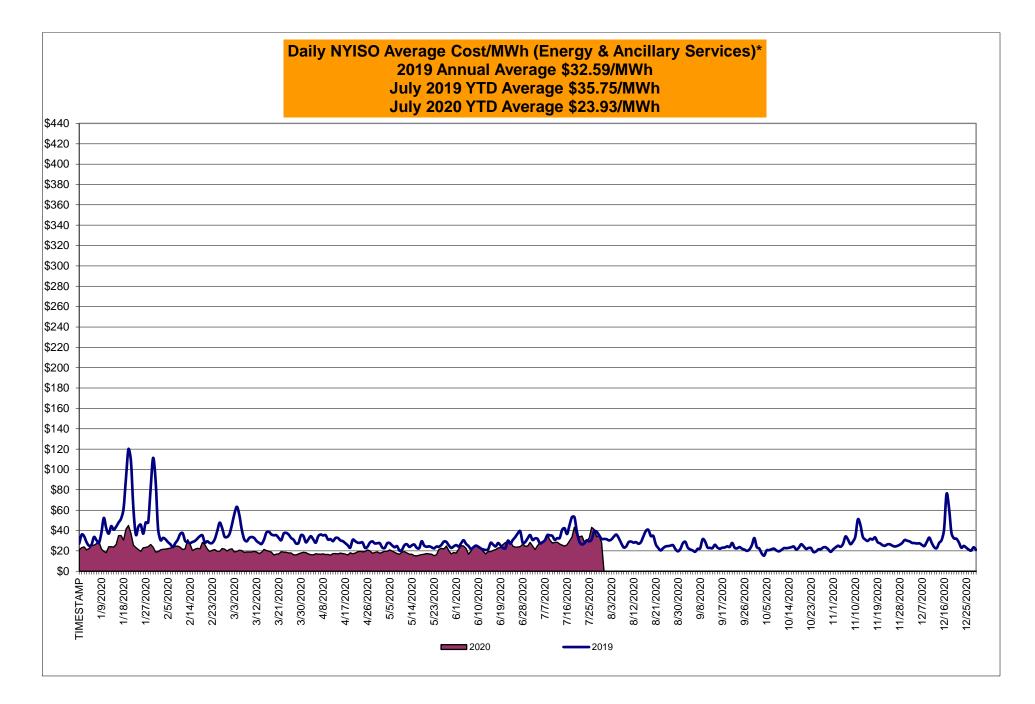
SENIOR VICE PRESIDENT – MARKET STRUCTURES, NYISO

#### **Business Issues Committee Meeting**

August 12, 2020 Rensselaer, NY

# Market Performance Highlights July 2020

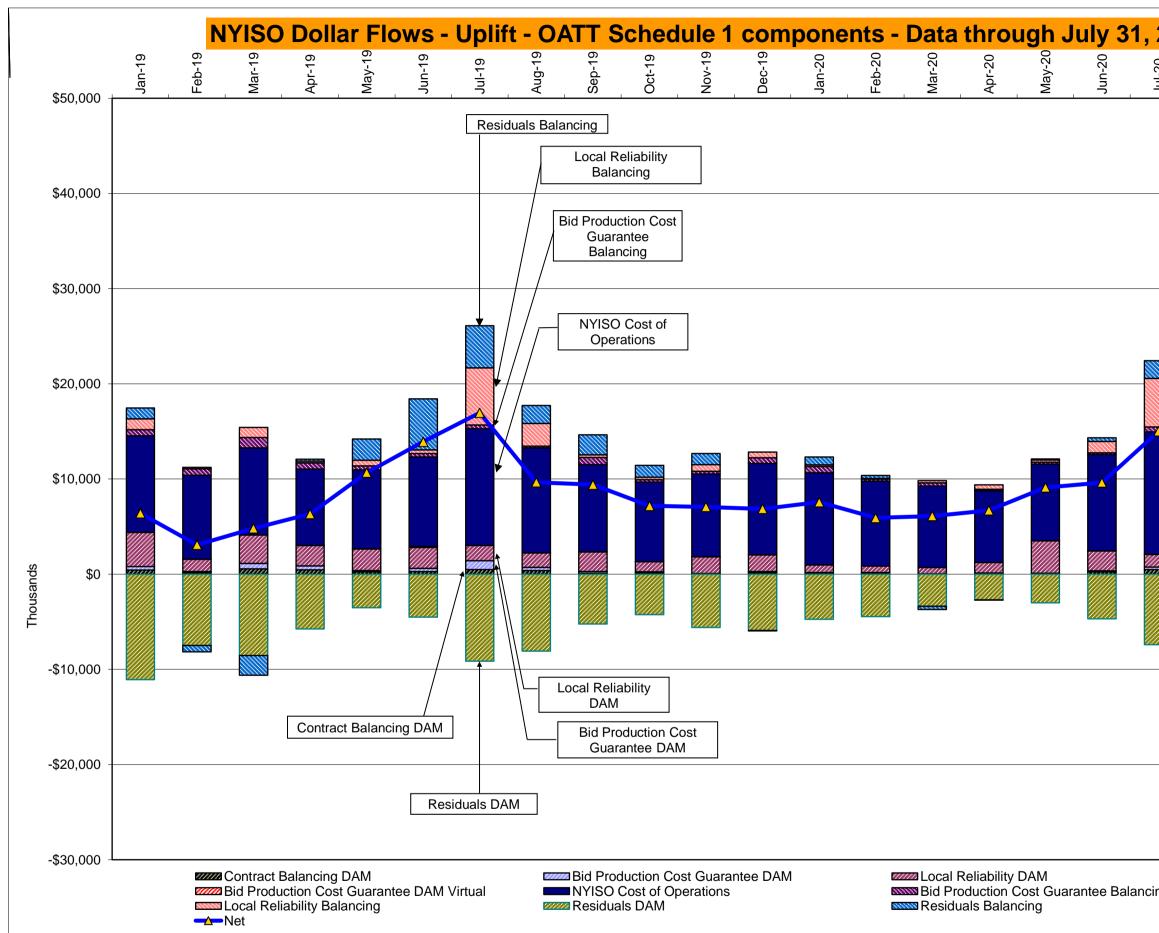
- LBMP for July is \$28.86/MWh; higher than \$21.36/MWh in June 2020 and lower than \$33.18/MWh in July 2019.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to June.
- July 2020 average year-to-date monthly cost of \$24.11/MWh is a 33% decrease from \$35.75/MWh in July 2019.
- Average daily sendout is 530 GWh/day in July; higher than 430 GWh/day in June 2020 and lower than 539 GWh/day in July 2019.
- Natural gas prices and distillate prices are higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$1.69 /MMBtu, up from \$1.44/MMBtu in June.
  - Natural gas prices are down 22.5% year-over-year.
  - Jet Kerosene Gulf Coast was \$8.00/MMBtu, up from \$7.30/MMBtu in June.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$8.85/MMBtu, up from \$8.05/MMBtu in June.
  - Distillate prices are down 39.5% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is \$0.07/MWh; higher than (\$0.05)/MWh in June.
    - Local Reliability Share is \$0.38/MWh, higher than \$0.24/MWh in June.
    - Statewide Share is (\$0.31)/MWh, lower than (\$0.29)/MWh in June.
  - TSA \$ per NYC MWh is \$0.18/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than June.



\* Excludes ICAP payments.

			<u></u>									
2020	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	December
LBMP	24.77	21.11	17.11	15.77	16.14	21.36	28.86					
NTAC	0.91	0.70	0.86	0.91	1.05	0.95	1.24					
Reserve	0.46	0.43	0.47	0.50	0.53	0.45	0.39					
Regulation	0.09	0.08	0.09	0.08	0.10	0.08	0.06					
NYISO Cost of Operations	0.68	0.69	0.68	0.66	0.71	0.74	0.76					
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.11	0.09	0.06					
Uplift	(0.15)	(0.23)	(0.19)	(0.08)	0.09	(0.05)	0.07					
Uplift: Local Reliability Share	0.07	0.06	0.07	0.14	0.32	0.24	0.38					
Uplift: Statewide Share	(0.22)	(0.29)	(0.26)	(0.21)	(0.23)	(0.29)	(0.31)					
Voltage Support and Black Start	0.44	0.44	0.44	0.43	0.45	0.45	0.46					
Avg Monthly Cost	27.29	23.32	19.55	18.38	19.16	24.09	31.91					
Avg YTD Cost	27.29	25.40	23.48	22.38	21.82	22.21	24.11					
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.04	0.18					
2019	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
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
NTAC	0.51	0.69	0.98	1.16	0.72	1.08	1.01	0.98	0.48	0.57	0.88	0.77
Reserve	0.54	0.51	0.55	0.63	0.63	0.50	0.44	0.49	0.50	0.62	0.50	0.44
Regulation	0.13	0.11	0.10	0.33	0.13	0.09	0.07	0.09	0.09	0.13	0.11	0.10
NYISO Cost of Operations	0.68	0.68	0.69	0.69	0.68	0.69	0.70	0.70	0.69	0.67	0.67	0.67
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.10	0.08	0.06	0.07	0.09	0.09	0.09	0.08
Uplift	(0.25)	(0.44)	(0.33)	(0.15)	0.13	0.07	(0.06)	(0.20)	(0.13)	(0.09)	(0.13)	(0.19)
Uplift: Local Reliability Share	0.32	0.11	0.31	0.20	0.23	0.19	0.44	0.25	0.17	0.11	0.19	0.17
Uplift: Statewide Share	(0.57)	(0.55)	(0.64)	(0.35)	(0.11)	(0.12)	(0.50)	(0.45)	(0.30)	(0.20)	(0.31)	(0.35)
Voltage Support and Black Start	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.36
Avg Monthly Cost	52.99	35.51	37.38	31.16	25.88	27.32	35.78	30.33	24.32	23.21	29.89	31.76
Avg YTD Cost	52.99	44.93	42.54	40.12	37.57	35.76	35.75	34.96	33.88	32.94	32.69	32.59
TSA \$ per NYC MWh	0.00	0.00	0.01	0.01	0.19	0.77	1.00	0.33	0.43	0.00	0.00	0.00

#### <u>NYISO Average Cost/MWh (Energy and Ancillary Services)</u> \* <u>from the LBMP Customer point of view</u>



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.

<b>202</b>	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	
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#### **NYISO Markets Transactions**

<u>2020</u>	January	<u>February</u>	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Day Ahead Market MWh	14,194,609	13,172,669	12,495,999	11,372,390	11,462,320	13,825,178	-	<u></u>	<u></u>	<u> </u>	<u></u>	
DAM LSE Internal LBMP Energy Sales	56%	56%	59%	54%	55%	58%	65%					
DAM External TC LBMP Energy Sales	6%	5%	5%	54 <i>%</i> 7%	4%	3%	2%					
DAM Bilateral - Internal Bilaterals	30%	30%	27%	30%	31%	29%	26%					
DAM Bilateral - Importi/Non-LBMP Market Bilaterals	5%	5%	6%	6%	6%	5%	3%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%					
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	1%	1%	2%	2%					
Balancing Energy Market MWh	-26,753	-142,168	144,076	22,599	-137,565	-180,149	403,914					
Balancing Energy LSE Internal LBMP Energy Sales	-1080%	-221%	-85%	-884%	-187%	-134%	85%					
Balancing Energy External TC LBMP Energy Sales	1156%	181%	-03 <i>%</i> 240%	1233%	137%	99%	35%					
Balancing Energy Bilateral - Internal Bilaterals	62%	5%	12%	55%	12%	55% 7%	2%					
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	127%	16%	18%	92%	12%	5%	2%					
Balancing Energy Bilateral - Wheel Through Bilaterals	-365%	-81%	-85%	-396%	-74%	-77%	-24%					
Transactions Summary	00070	0170	0070	00070	7 - 70	1170	2-170					
LBMP	62%	62%	65%	61%	59%	62%	68%					
Internal Bilaterals	31%	31%	27%	30%	32%	30%	26%					
Import Bilaterals	5%	5%	6%	50 % 6%	52 <i>%</i>	5%	20%					
Export Bilaterals	5 % 2%	5 % 2%	0 % 2%	0 % 2%	0 % 2%	5 % 2%	3 <i>%</i> 1%					
Wheels Through	2 % 0%	2 % 1%	2 % 0%	2 %	2 % 0%	2 % 1%	1%					
Market Share of Total Load	070	1 70	078	0 70	070	1 /0	1 70					
	100.00/	101 10/	00.00/	00.00/	404 00/	101 20/	07.60/					
Day Ahead Market	100.2% -0.2%	101.1% -1.1%	98.9% 1.1%	99.8% 0.2%	101.2% -1.2%	101.3% -1.3%	97.6% 2.4%					
Balancing Energy +												
Total MWH	14,167,856	13,030,501	12,640,075	11,394,989		13,645,029						
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430	530					
2010	loouom/	<b>February</b>	Marah	انما	Max	المسال	Lub.	August	Contombor	Octobor	November	December
<u>2019</u>	January	February	<u>March</u>	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
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%
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Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing 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%
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Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing 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% 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 - 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 Bilateral - Internal Bilaterals         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         By P         Internal Bilaterals	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%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3% 0% 6% -47% 61% 30% 6% 2% 1%	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% -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% 0% 1% -23% 65% 27% 5% 1% 1%	13,588,715 58% 3% 30% 5% 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%	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%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral Summary         LBMP         Internal Bilaterals         Import Bilaterals         Export Bilaterals         Wheels Through         Market Share of Total Load	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4% 0% 3% -45% 63% 29% 5% 1% 1% 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% 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% 4% 1% 1% 1% 1%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41% 0% 0% 0% 1% -23% 65% 27% 5% 1% 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% 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 MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBuport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4% 0% 3% -45% 63% 29% 5% 1% 1% 1%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67% -1% 0% 7% -1% 0% 7% -47% 62% 30% 5% 2% 1%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3% 0% 6% -47% 61% 30% 6% 2% 1%	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% -392,699 -150% 68% 1% 0% 2% -21% 59% 33% 6% 2% 0%	13,723,372 58% 3% 29% 5% 2% -102,044 -264% 233% 0% 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% 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% 2% 2%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266% 6% 0% 25% -52% 61% 32% 5% 2% 0%	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%

+ 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.

Market Mitigation and Analysis Prepared: 8/10/2020 1:38 PM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

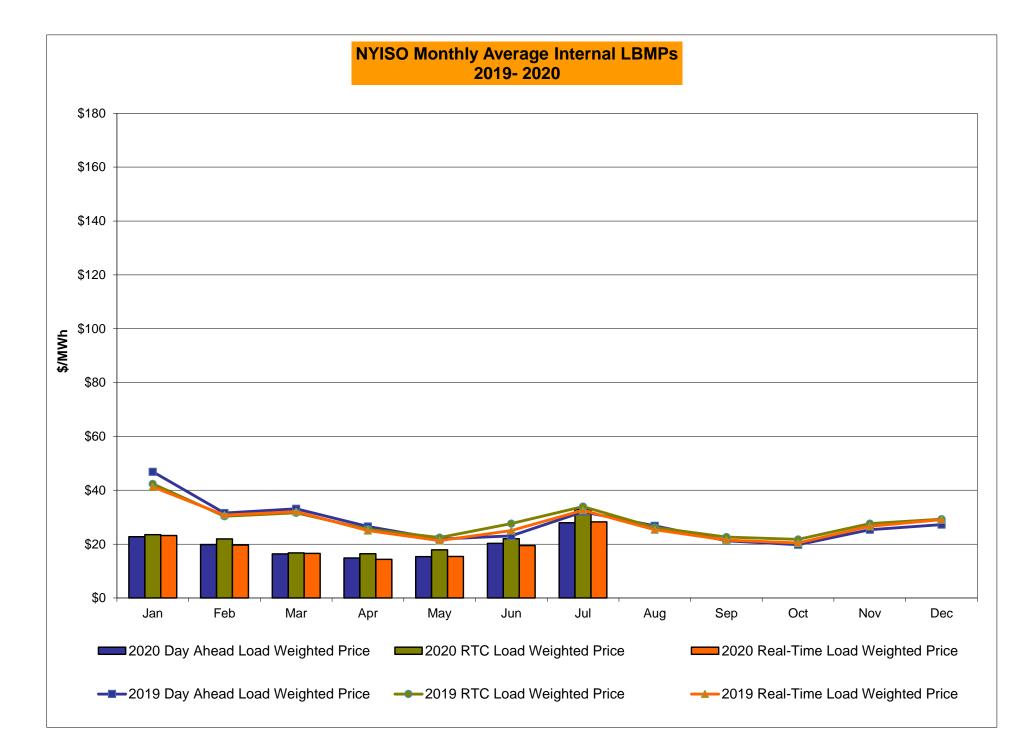
#### NYISO Markets 2020 Energy Statistics

	<u>January</u>	<b>February</b>	March	April	May	<u>June</u>	July	August September	October November December
DAY AHEAD LBMP								-	
Price *	\$22.11	\$19.48	\$16.07	\$14.67	\$14.97	\$19.15	\$26.30		
Standard Deviation	\$7.43	\$4.45	\$3.21	\$2.71	\$3.55	\$6.40	\$10.45		
Load Weighted Price **	\$22.77	\$19.84	\$16.36	\$14.86	\$15.37	\$20.28	\$27.94		
RTC LBMP									
Price *	\$22.86	\$21.48	\$16.48	\$16.23	\$17.46	\$20.84	\$30.70		
Standard Deviation	\$9.33	\$53.30	\$4.84	\$5.17	\$8.61	\$11.26	\$17.92		
Load Weighted Price **	\$23.50	\$21.94	\$16.74	\$16.44	\$17.89	\$22.01	\$32.92		
REAL TIME LBMP									
Price *	\$22.53	\$19.29	\$16.24	\$14.14	\$14.90	\$18.35	\$26.56		
Standard Deviation	\$11.90	\$8.68	\$7.48	\$6.98	\$8.35	\$9.33	\$16.45		
Load Weighted Price **	\$23.20	\$19.68	\$16.58	\$14.35	\$15.42	\$19.46	\$28.27		
Average Daily Energy Sendout/Month GWh	423	417	375	344	345	430	530		

#### NYISO Markets 2019 Energy Statistics

	<u>January</u>	February	March	April	May	June	July	August S	September	<u>October</u>	November [	December
DAY AHEAD LBMP 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	\$45.01 \$25.67	\$30.00 \$12.86	\$9.30	\$6.32	\$5.89	\$7.28	\$30.10 \$12.06	\$8.73	\$20.43 \$5.57	\$5.09	\$24.03 \$7.73	\$20.29 \$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
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.

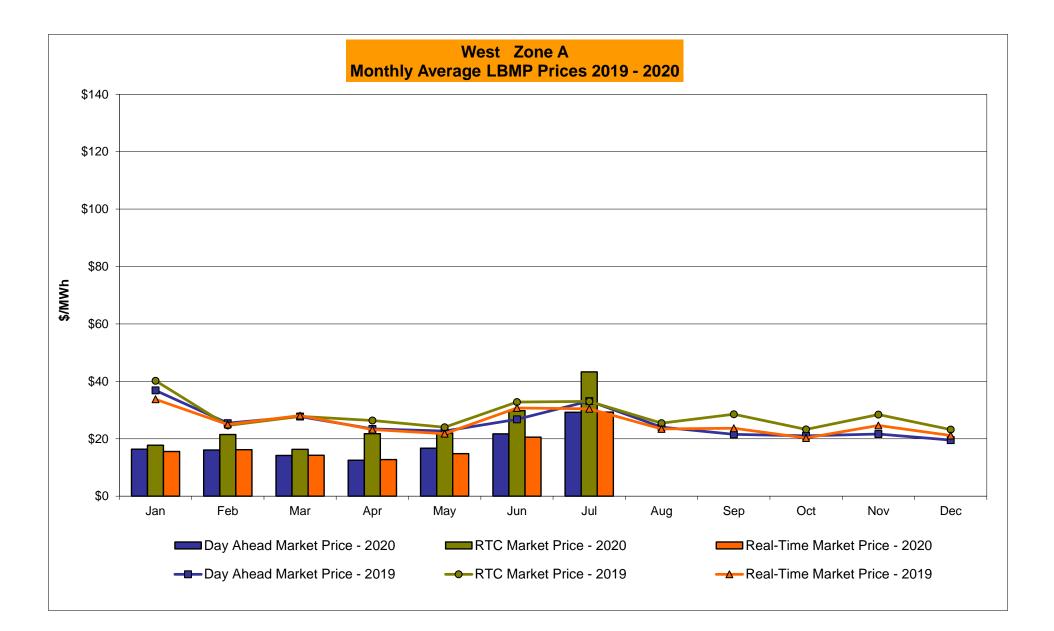


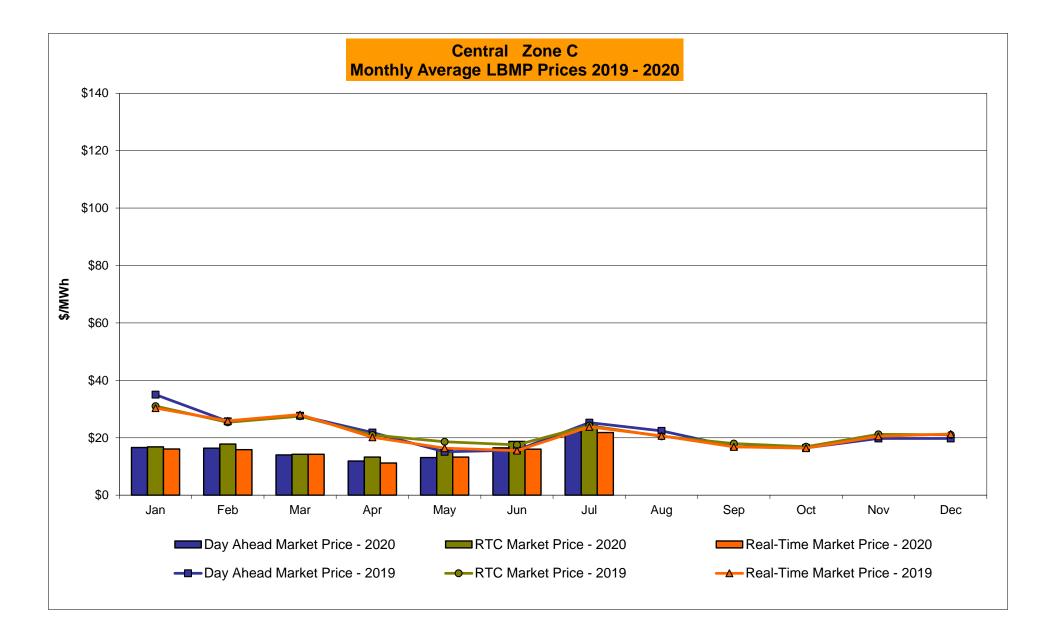
#### July 2020 Zonal LBMP Statistics for NYISO (\$/MWh)

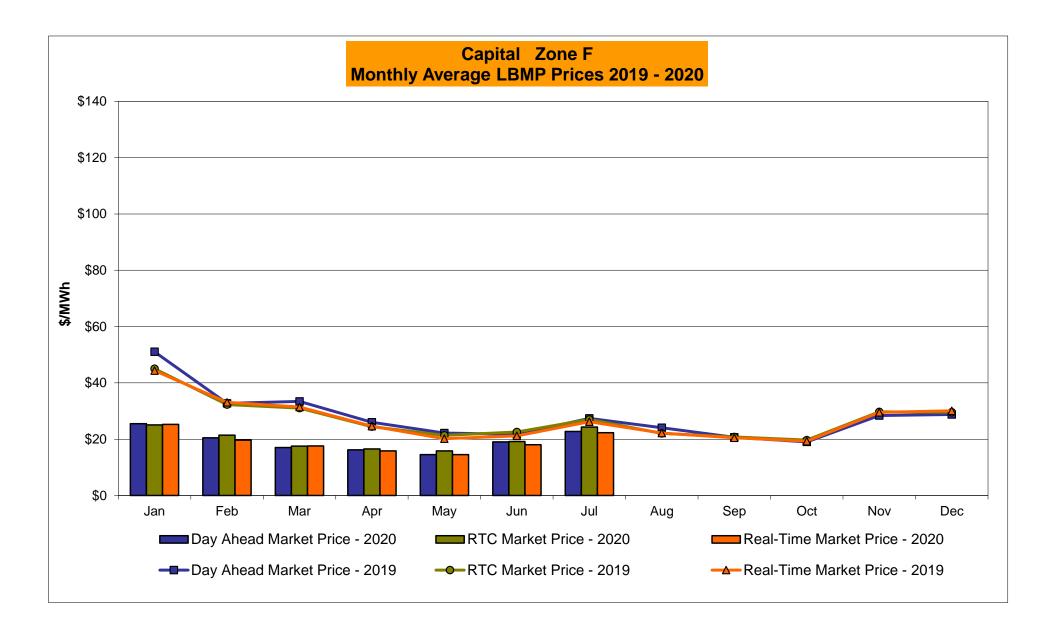
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	<u>Zone G</u>	<u>Zone H</u>	<u>Zone I</u>	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	29.23	22.29	17.59	22.18	22.10	22.74	23.17	24.51	23.96	25.50	35.96
Standard Deviation	16.38	9.41	5.90	7.35	7.21	7.06	7.02	11.67	8.03	8.83	20.98
RTC LBMP											
Unweighted Price *	43.28	27.97	21.05	24.28	23.69	24.28	24.52	27.14	25.95	28.71	42.19
Standard Deviation	50.57	31.68	15.38	11.04	10.45	9.90	10.12	17.63	12.02	14.63	51.34
REAL TIME LBMP											
Unweighted Price *	29.28	23.79	18.58	21.84	21.70	22.28	22.56	24.83	23.82	26.60	35.00
Standard Deviation	27.36	20.98	19.56	9.70	9.69	9.24	9.59	15.42	10.56	13.03	59.71

	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						Controllable	<b>Controllable</b>	Controllable	<b>Controllable</b>	<u>Controllable</u>	Controllable
	Zone O	Zone M	Zone M	Zone P	Zone N	Line	<u>Line</u>	Line	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	18.73	19.02	19.02	18.73	23.02	23.63	47.01	24.49	17.10	24.04	27.39
Standard Deviation	5.47	6.04	6.04	5.47	7.76	8.32	41.71	7.46	5.63	7.54	14.73
RTC LBMP											
Unweighted Price *	18.45	21.10	21.10	18.45	23.66	26.47	54.47	28.32	19.29	25.73	29.88
Standard Deviation	16.14	9.28	9.28	16.14	11.98	15.83	68.75	40.23	38.44	11.53	41.66
REAL TIME LBMP											
Unweighted Price *	18.27	18.63	18.63	18.27	21.47	22.39	45.67	25.06	15.67	23.85	27.11
Standard Deviation	13.03	15.37	15.37	13.03	11.00	11.77	68.34	57.85	40.55	10.34	58.07

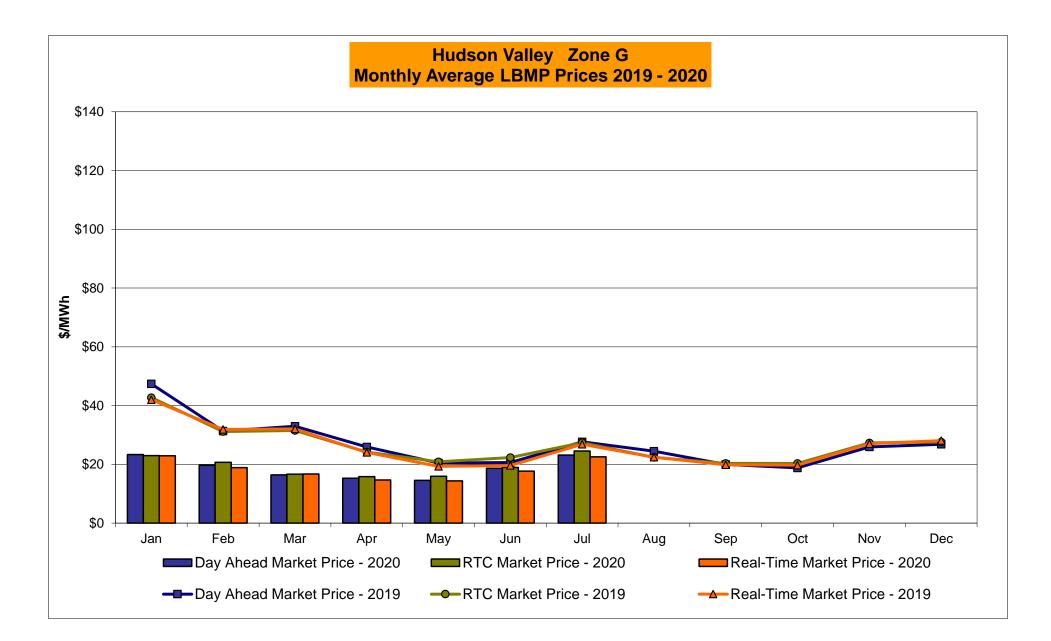
\* Straight LBMP averages

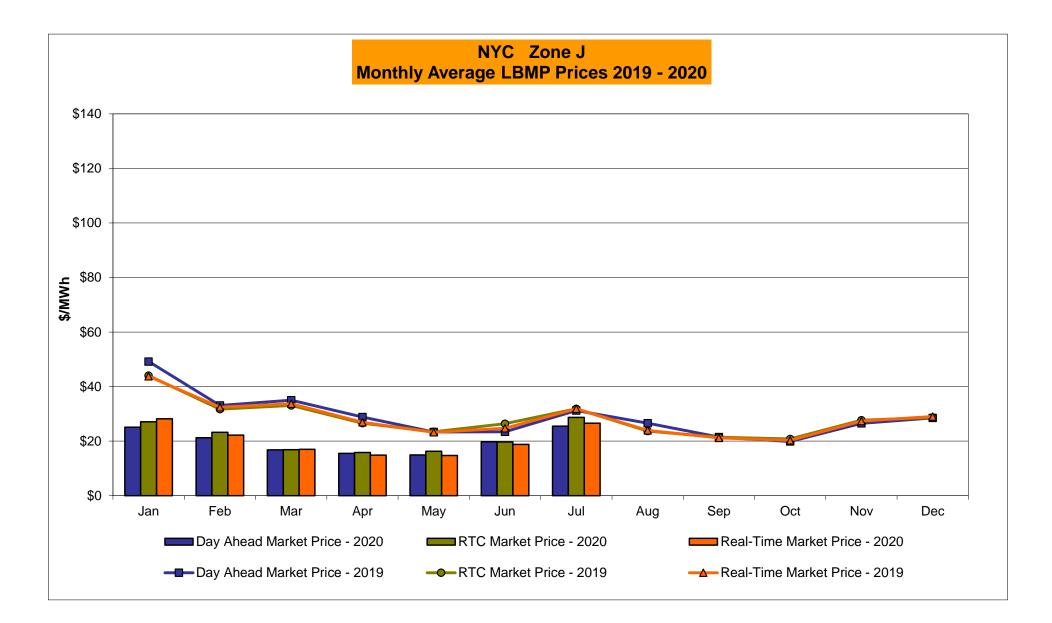


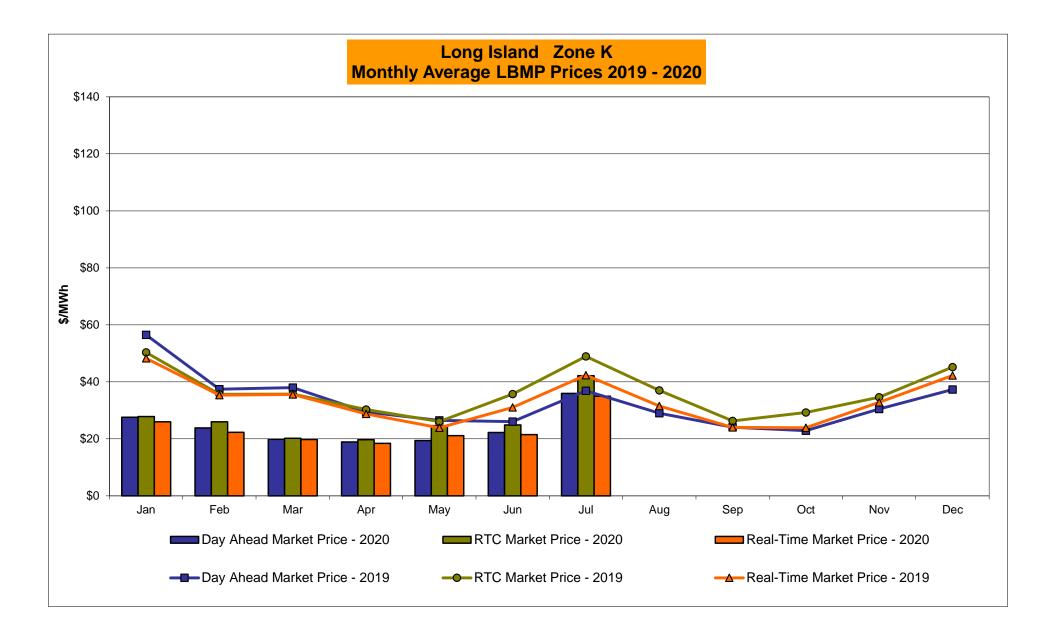


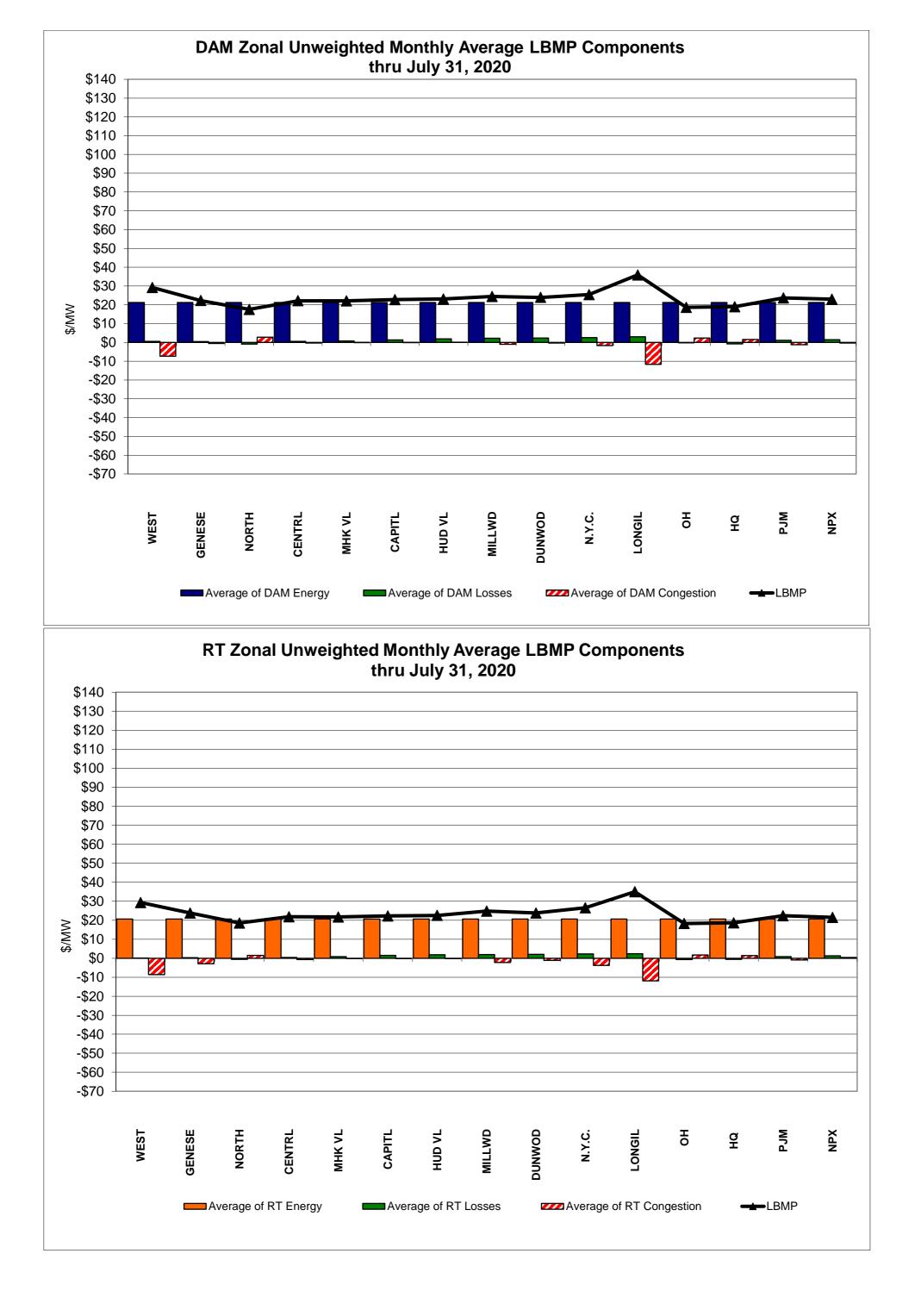


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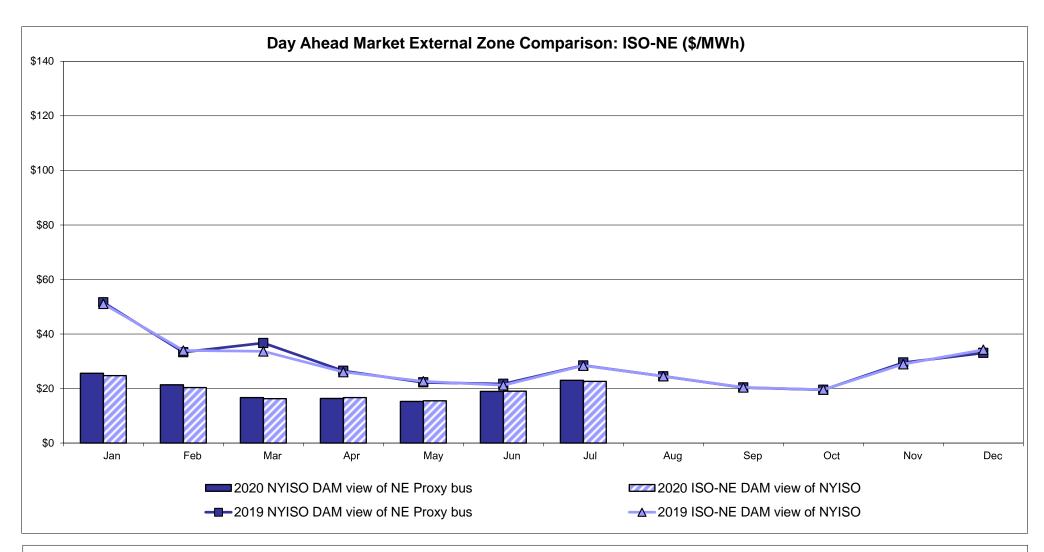


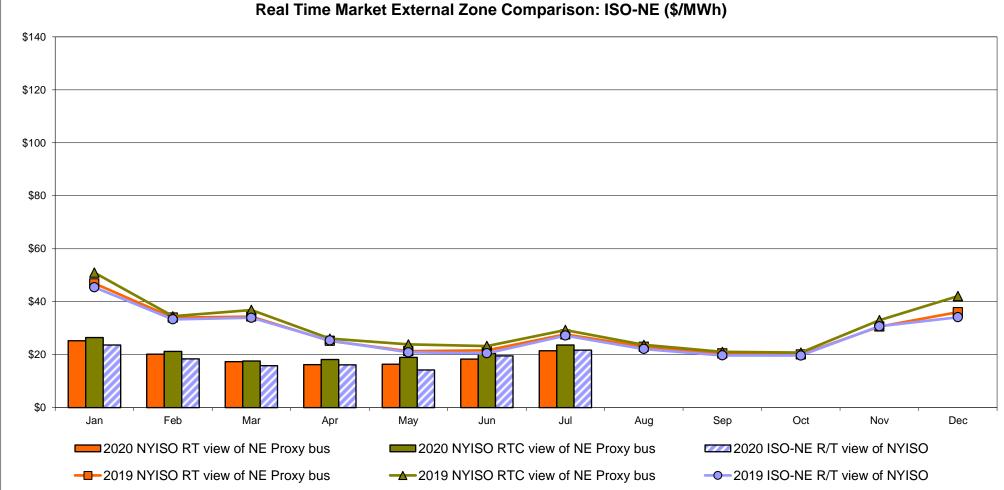


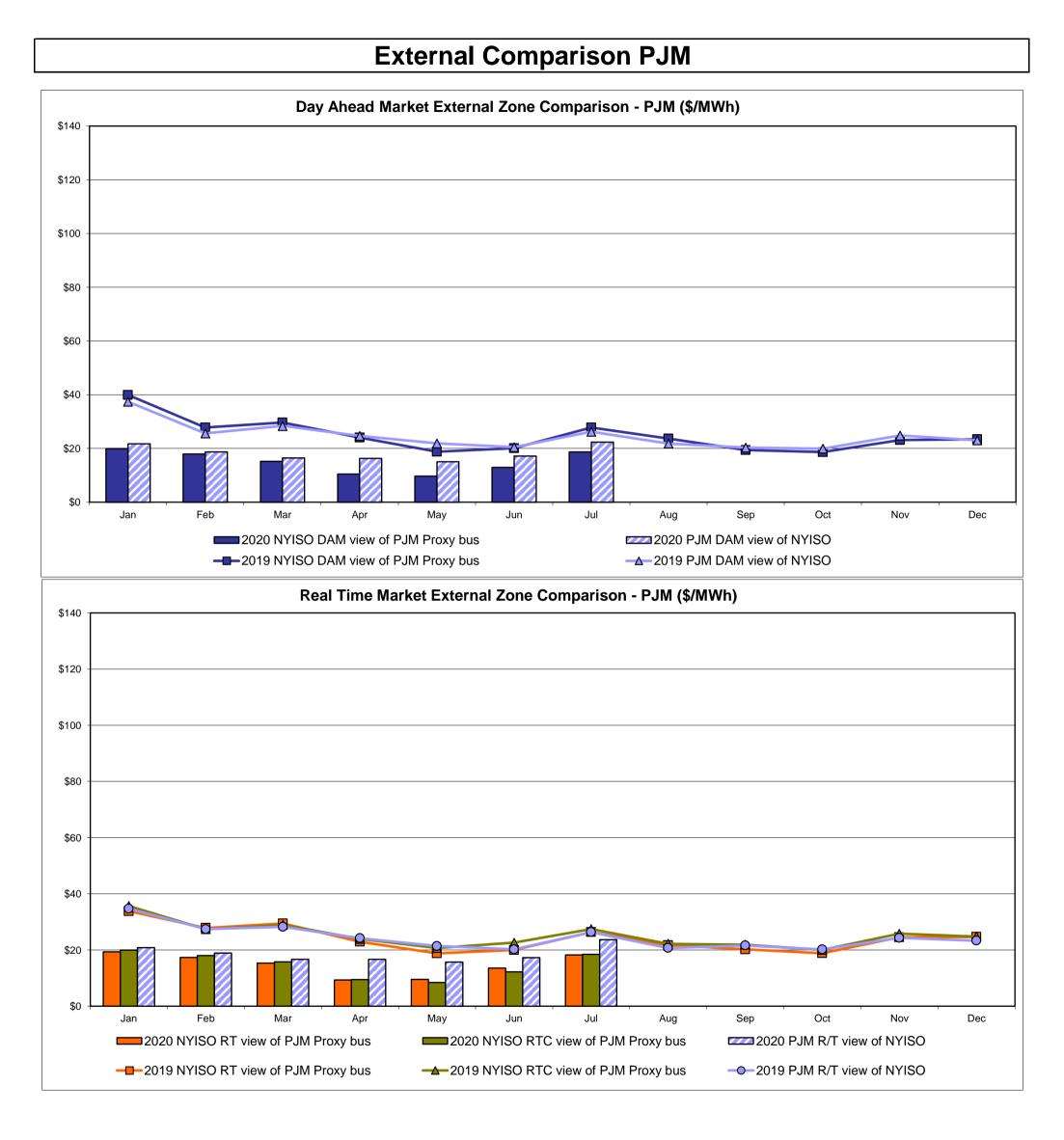




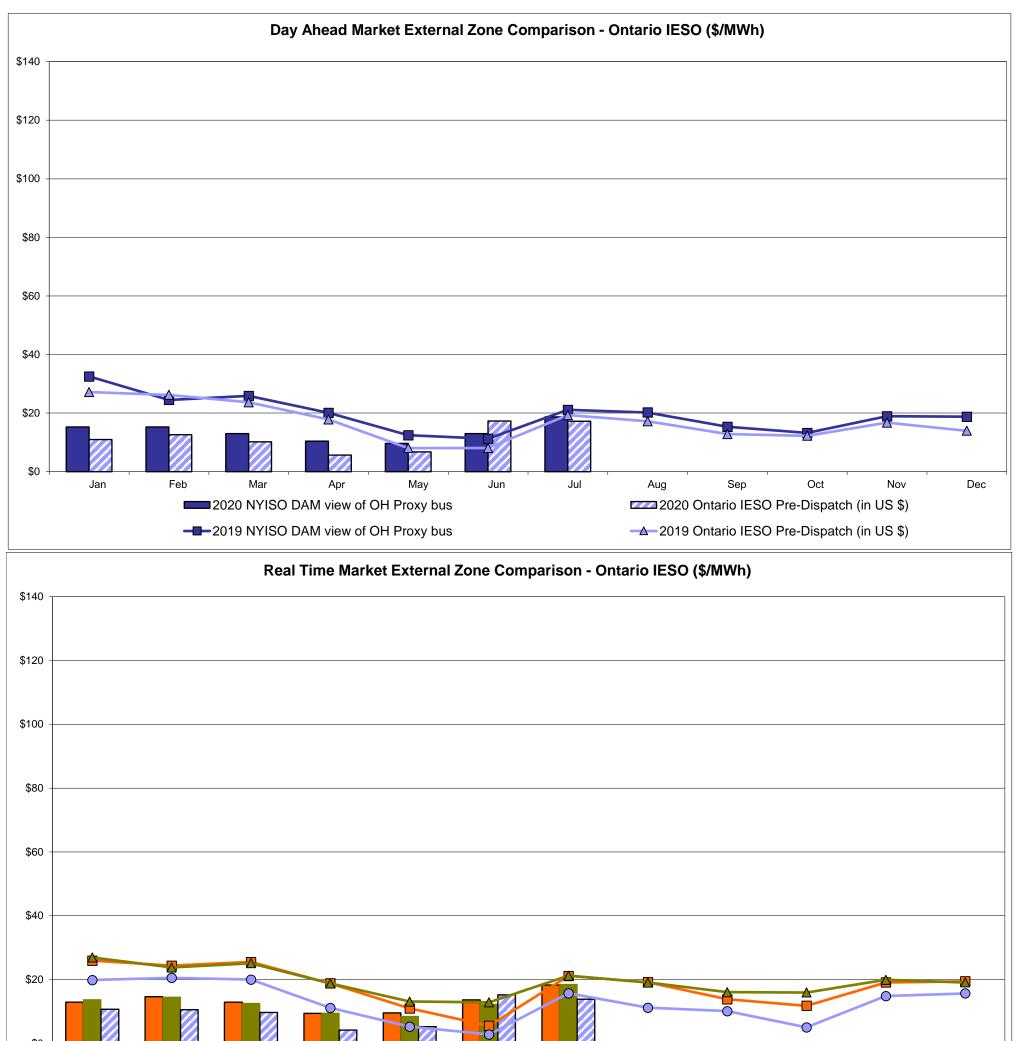
# External Comparison ISO-New England







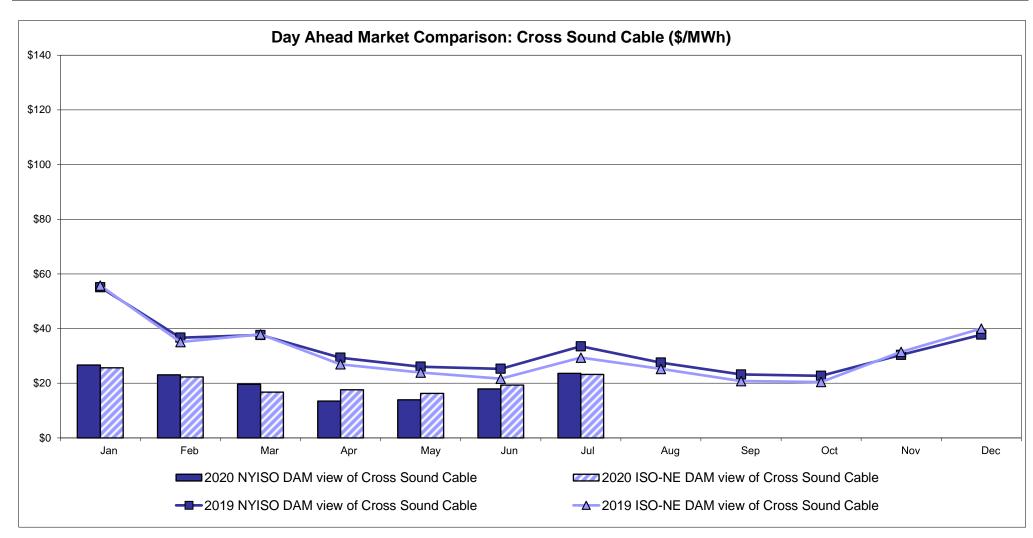
### **External Comparison Ontario IESO**



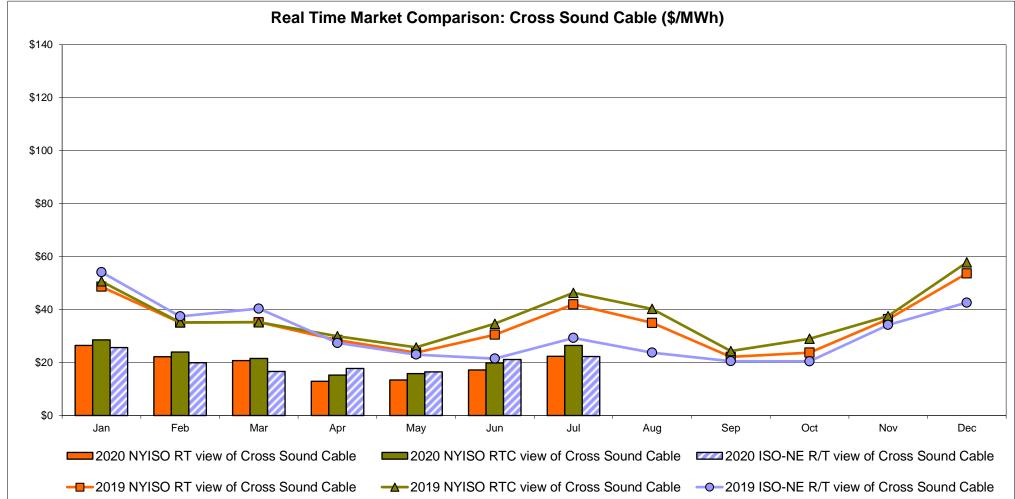


Notes: Exchange factor used for July 2020 was 0.740905386382159 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

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

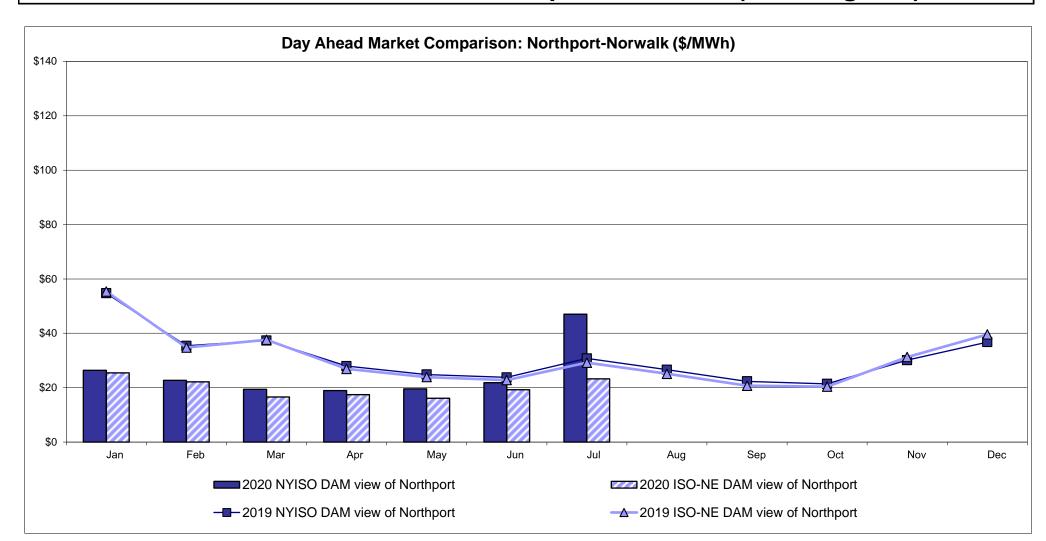


#### Note:

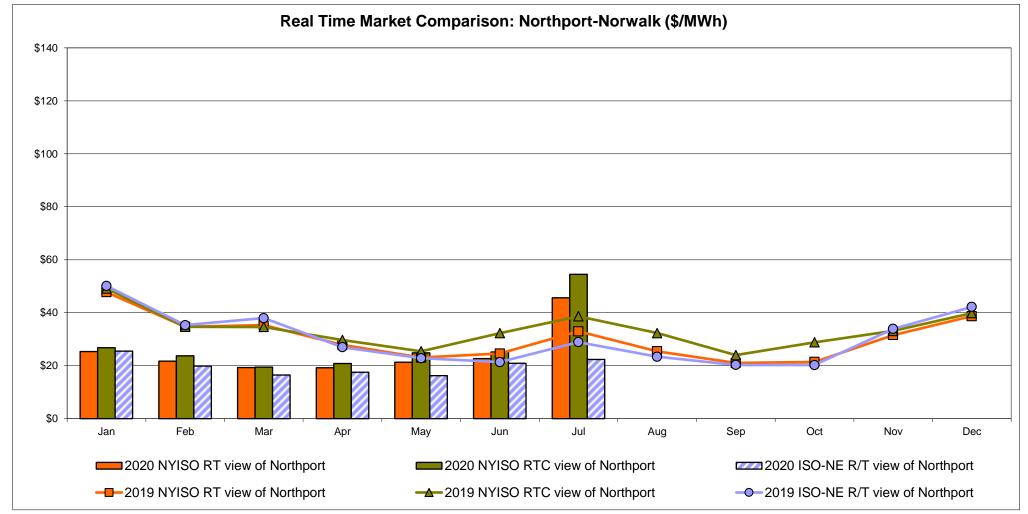
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



# External Controllable Line: Northport - Norwalk (New England)



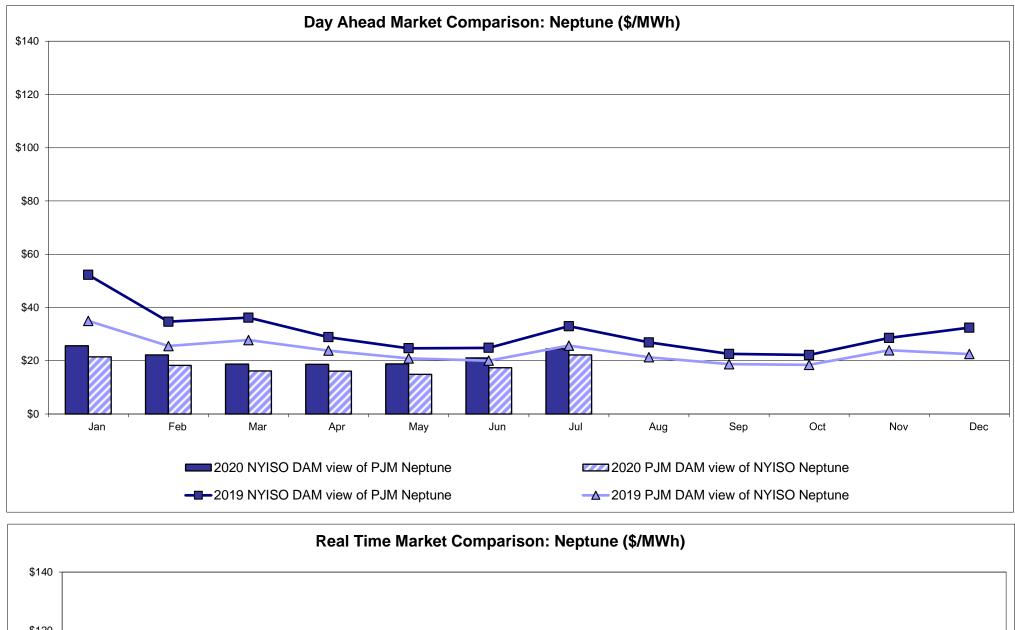
Note:

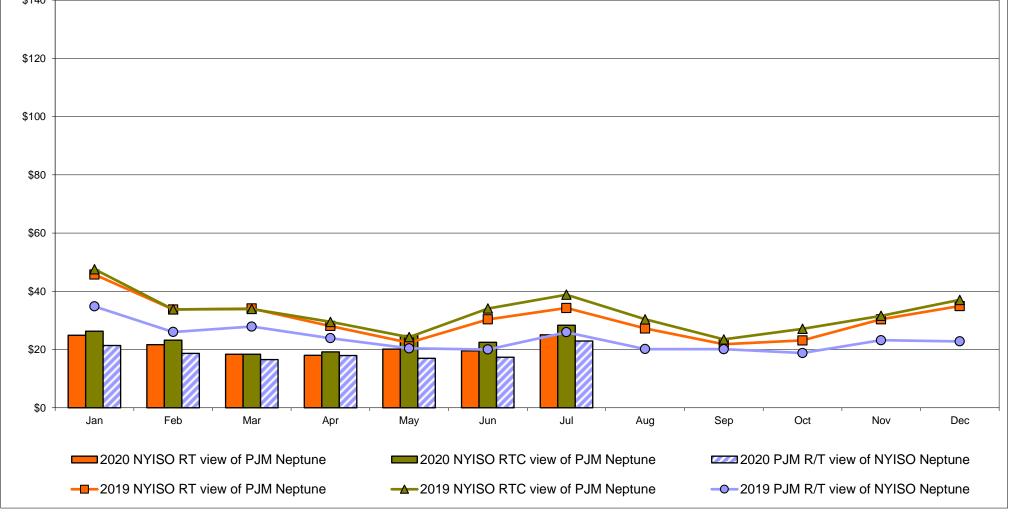
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

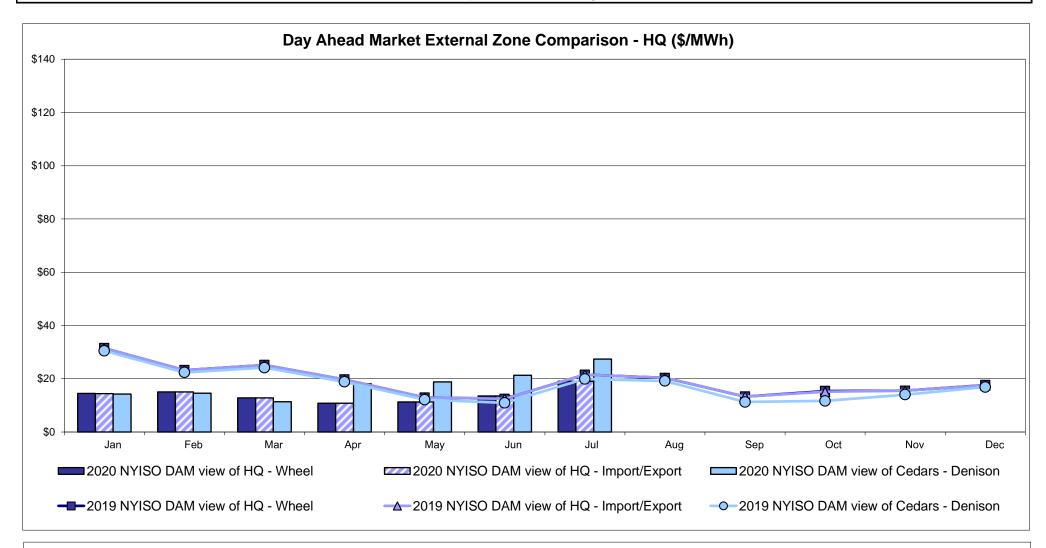
The DAM and R/T prices at the 1385 interface are used for NYISO.

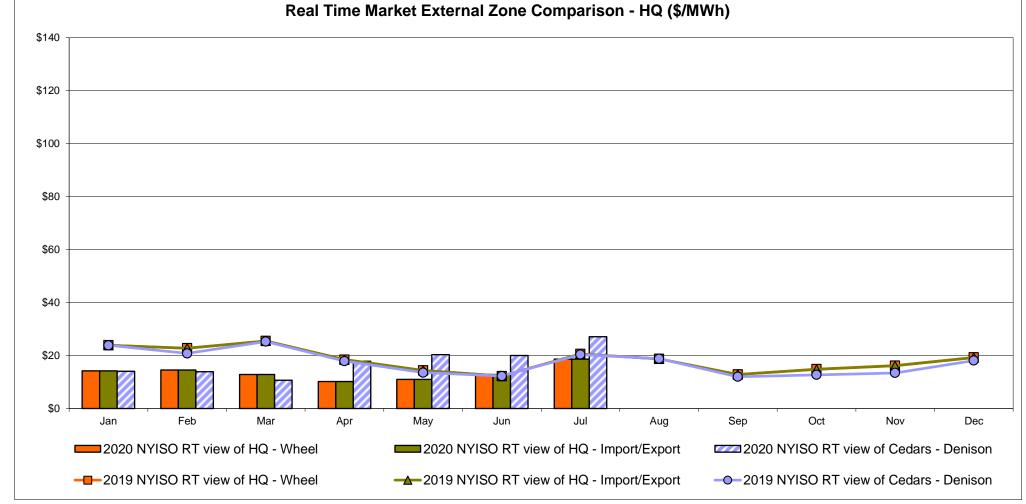
# **External Controllable Line: Neptune (PJM)**





# External Comparison Hydro-Quebec

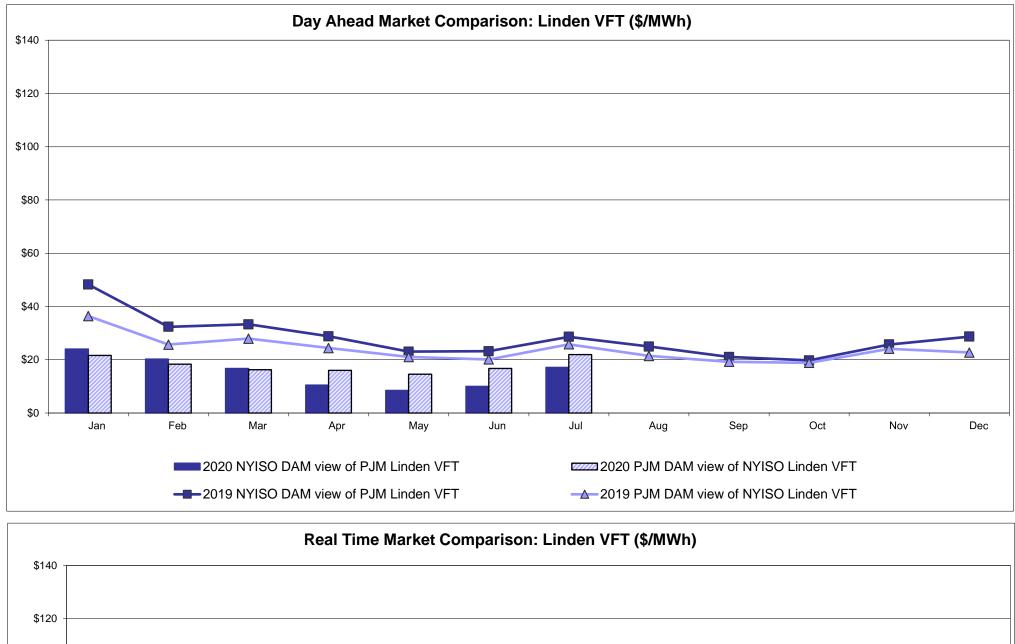


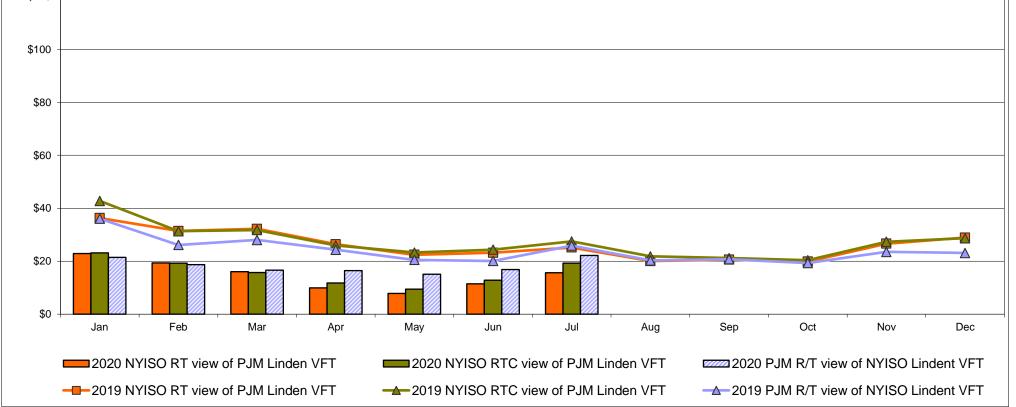


Note:

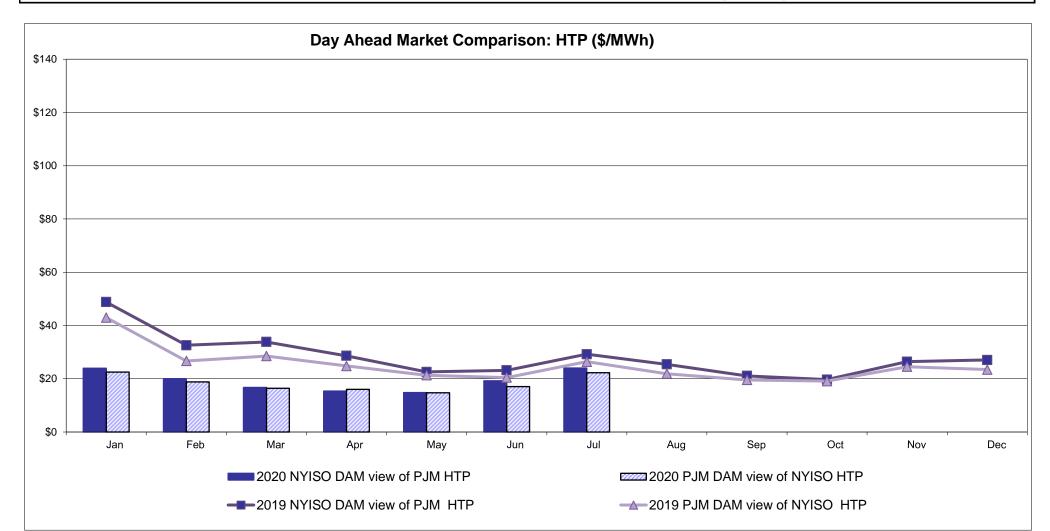
Hydro-Quebec Prices are unavailable.

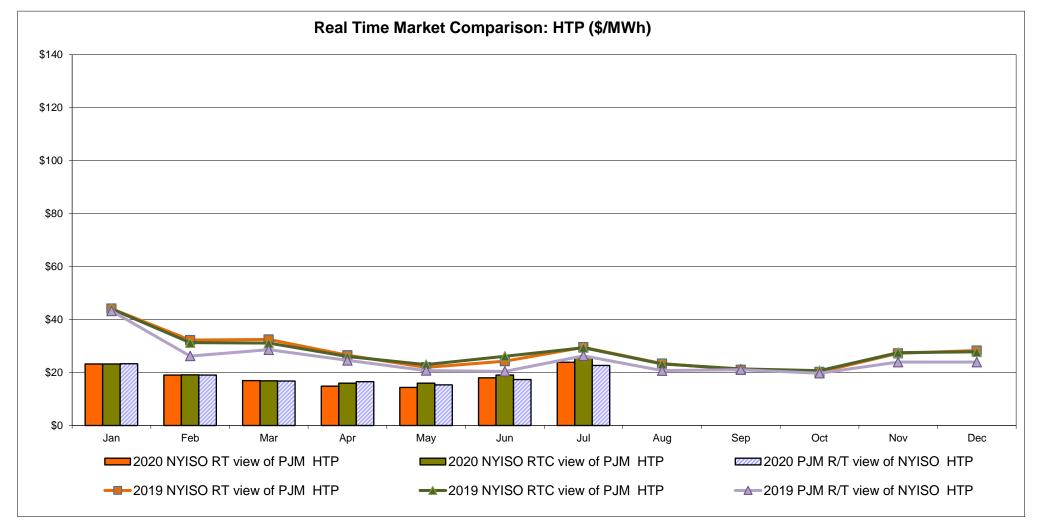
# External Controllable Line: Linden VFT (PJM)





# External Controllable Line: Hudson (PJM)



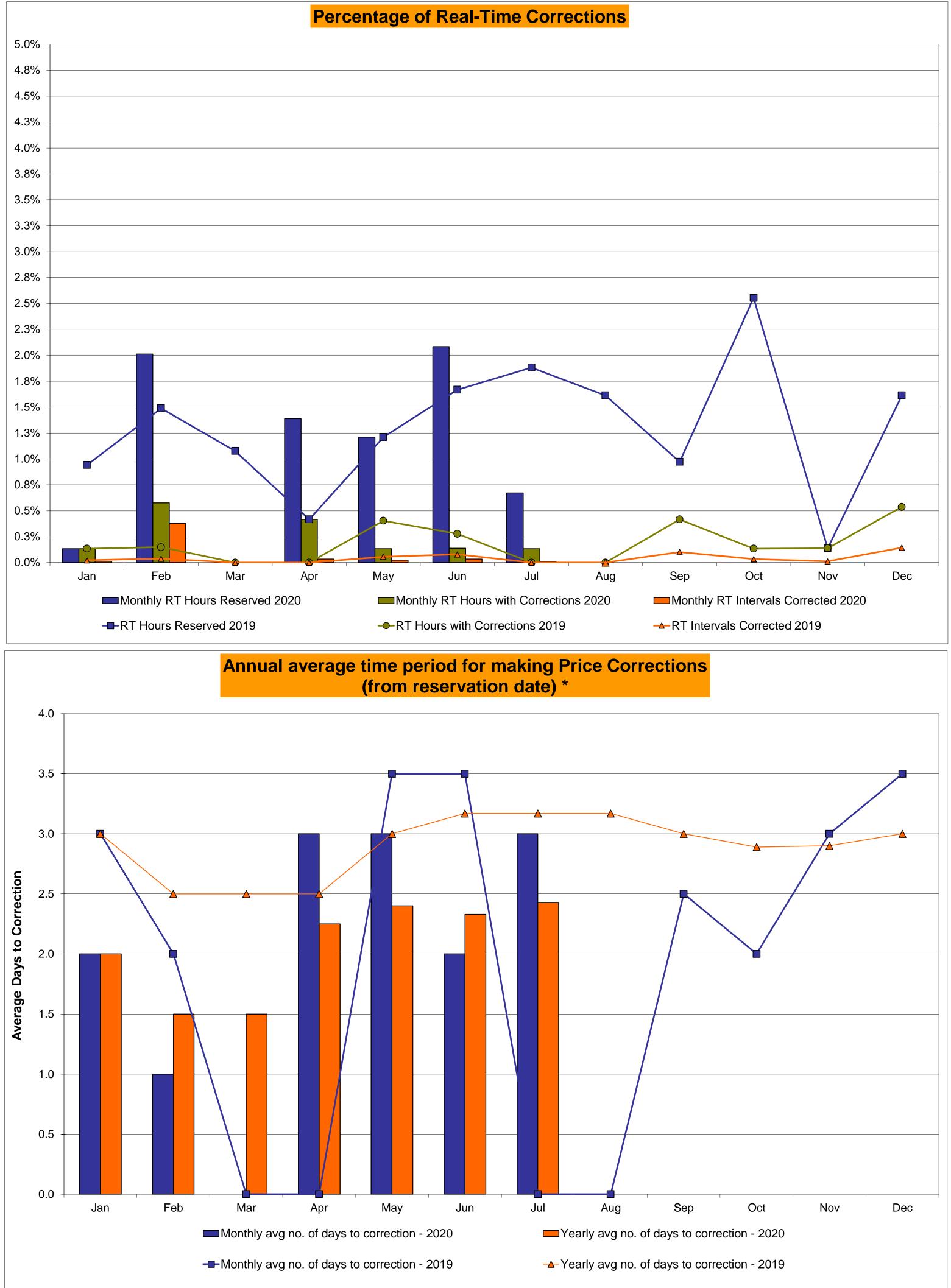


#### **NYISO Real Time Price Correction Statistics**

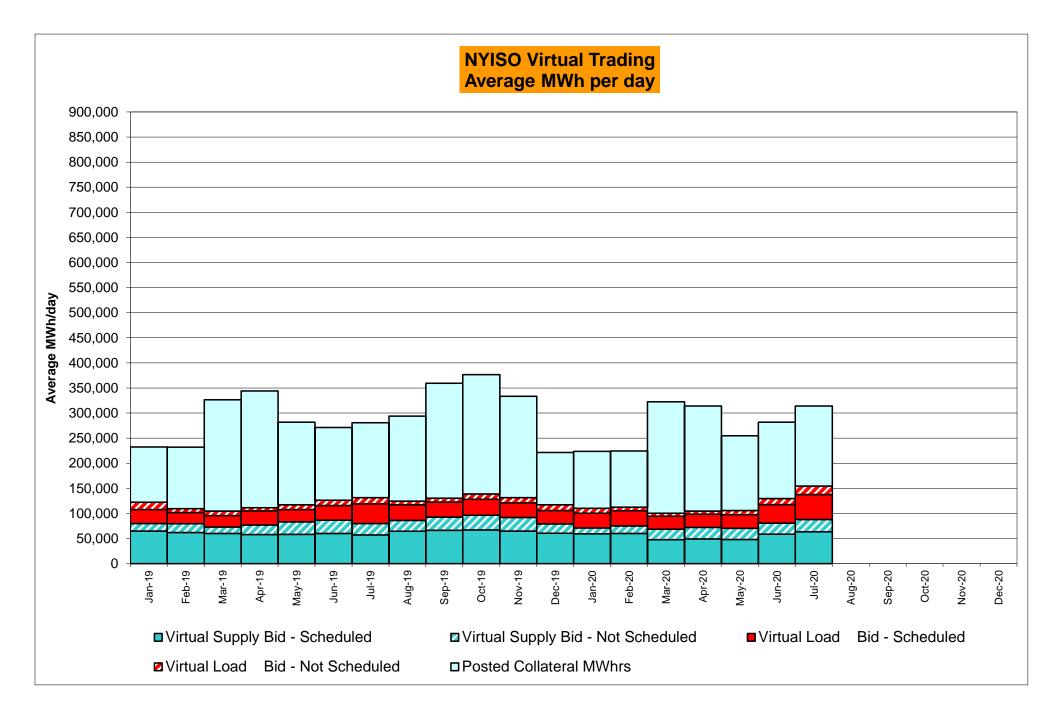
2020		<u>January</u>	February	March	<u>April</u>	May	June	<u>July</u>	August	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	1	4	0	3	1	1	1					
Number of hours	in the month	744	696	743	720	744	720	744					
% of hours with corrections	in the month	0.13%	0.57%	0.00%	0.42%	0.13%	0.14%	0.13%					
% of hours with corrections	year-to-date	0.13%	0.35%	0.23%	0.28%	0.25%	0.23%	0.22%					
Interval Corrections	year-io-uaie	0.1370	0.3376	0.2370	0.2070	0.2370	0.2370	0.22 /0					
Number of intervals corrected	in the month	1	32	0	3	2	3	1					
Number of intervals	in the month	9,088	8,460	9,011	8,776	9,030	8,826	9,128					
% of intervals corrected	in the month	0.01%	0.38%	0.00%	0.03%	0.02%	0.03%	0.01%					
% of intervals corrected	year-to-date	0.01%	0.19%	0.12%	0.10%	0.09%	0.08%	0.07%					
Hours Reserved	j e e. 10 e e e e		011070		011070	010070	010070	0.0170					
Number of hours reserved	in the month	1	14	0	10	9	15	5					
Number of hours	in the month	744	696	743	720	744	720	744					
% of hours reserved	in the month	0.13%	2.01%	0.00%	1.39%	1.21%	2.08%	0.67%					
% of hours reserved	year-to-date	0.13%	1.04%	0.69%	0.86%	0.93%	1.12%	1.06%					
Days to Correction *	<b>,</b>												
Avg. number of days to correction	in the month	2.00	1.00	0.00	3.00	3.00	2.00	3.00					
Avg. number of days to correction	year-to-date	2.00	1.50	1.50	2.25	2.40	2.33	2.43					
Days Without Corrections													
Days without corrections	in the month	30	28	31	28	30	29	30					
Days without corrections	year-to-date	30	58	89	117	147	176	206					
2019		January	February	March	April	May	June	July	August	September	October	November	December
2019 Hour Corrections		<u>January</u>	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>	November	<u>December</u>
	in the month	<u>January</u> 1	<u>February</u> 1	<u>March</u> 0	<u>April</u> 0	<u>May</u> 3		<u>July</u> 0	<u>August</u> 0	<u>September</u> 3	<u>October</u> 1	<u>November</u> 1	<u>December</u> 4
Hour Corrections	in the month in the month	<u>January</u> 1 744	<u>February</u> 1 672				<u>June</u> 2 720				<u>October</u> 1 744	<u>November</u> 1 721	
Hour Corrections Number of hours with corrections		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 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	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	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 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% 0.15%	4 744 0.54% 0.18%
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> 2	1 672 0.15% 0.14% 3	0 743 0.00% <u>0.09%</u> 0	0 720 0.00% 0.07%	3 744 0.40% <u>0.14%</u> 5	2 720 0.28% 0.16% 7	0 744 0.00% <u>0.14%</u> 0	0 744 0.00% <u>0.12%</u> 0	3 720 0.42% <u>0.15%</u> 9	1 744 0.13% <u>0.15%</u> 3	1 721 0.14% <u>0.15%</u> 1	4 744 0.54% <u>0.18%</u> 13
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals	in the month in the month year-to-date in the month in the month	1 744 0.13% <u>0.13%</u> 2 9,071	1 672 0.15% 0.14% 3 8,131	0 743 0.00% <u>0.09%</u> 0 9,008	0 720 0.00% 0.07% 0 8,750	3 744 0.40% <u>0.14%</u> 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% <u>0.12%</u> 0 9,048	3 720 0.42% 0.15% 9 8,820	1 744 0.13% <u>0.15%</u> 3 9,087	1 721 0.14% <u>0.15%</u> 1 8,788	4 744 0.54% <u>0.18%</u> 13 9,021
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% 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% <u>0.14%</u> 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% <u>0.15%</u> 3 9,087 0.03%	1 721 0.14% <u>0.15%</u> 1 8,788 0.01%	4 744 0.54% <u>0.18%</u> 13 9,021 0.14%
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 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% <u>0.14%</u> 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% <u>0.15%</u> 3 9,087 0.03%	1 721 0.14% <u>0.15%</u> 1 8,788 0.01%	4 744 0.54% <u>0.18%</u> 13 9,021 0.14%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedHours 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%	1 672 0.15% <u>0.14%</u> 3 8,131 0.04% <u>0.03%</u>	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% <u>0.14%</u> 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% <u>0.12%</u> 0 9,048 0.00% 0.02%	3 720 0.42% 0.15% 9 8,820 0.10%	1 744 0.13% <u>0.15%</u> 3 9,087 0.03% 0.03%	1 721 0.14% <u>0.15%</u> 1 8,788 0.01%	4 744 0.54% <u>0.18%</u> 13 9,021 0.14% <u>0.04%</u>
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% number of intervals corrected% of intervals corrected% of intervals corrected% number 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% 0.13% 2 9,071 0.02% 0.02% 7	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10	0 743 0.00% 0.09% 9,008 0.00% 0.02% 8	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3	3 744 0.40% <u>0.14%</u> 5 9,033 0.06% <u>0.02%</u> 9	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12	0 744 0.00% 0.14% 9,243 0.00% 0.03% 14	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7	1 744 0.13% <u>0.15%</u> 3 9,087 0.03% <u>0.03%</u> 19	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1	4 744 0.54% <u>0.18%</u> 13 9,021 0.14% <u>0.04%</u> 12
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsMumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedNumber of hours reservedNumber of hours reservedNumber of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	1 744 0.13% 0.13% 2 9,071 0.02% 0.02% 7 744	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720	1 744 0.13% <u>0.15%</u> 3 9,087 0.03% 0.03% 19 744	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721	4 744 0.54% <u>0.18%</u> 13 9,021 0.14% <u>0.04%</u> 12 744
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% 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 in the month	1 744 0.13% 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% 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% <u>0.15%</u> 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% <u>0.18%</u> 13 9,021 0.14% <u>0.04%</u> 12 744 1.61%
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 reserved% of hours reserved% of hours reserved% 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% 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% 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% <u>0.15%</u> 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% <u>0.18%</u> 13 9,021 0.14% <u>0.04%</u> 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 corrected% of intervals corrected% of intervals correctedMumber 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 in the month in the month	1 744 0.13% 0.13% 2 9,071 0.02% 0.02% 7 744 0.94% 0.94% 0.94% 3.00	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49% 1.20% 2.00	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08% 1.16% 0.00	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42% 0.97% 0.00	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21% 1.02% 3.50	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% 0.00	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61% 1.29% 0.00	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97% 1.25% 2.50	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 0.03% 19 744 2.55% 1.38% 2.00	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% <u>0.18%</u> 13 9,021 0.14% <u>0.04%</u> 12 744 1.61% <u>1.30%</u> 3.50
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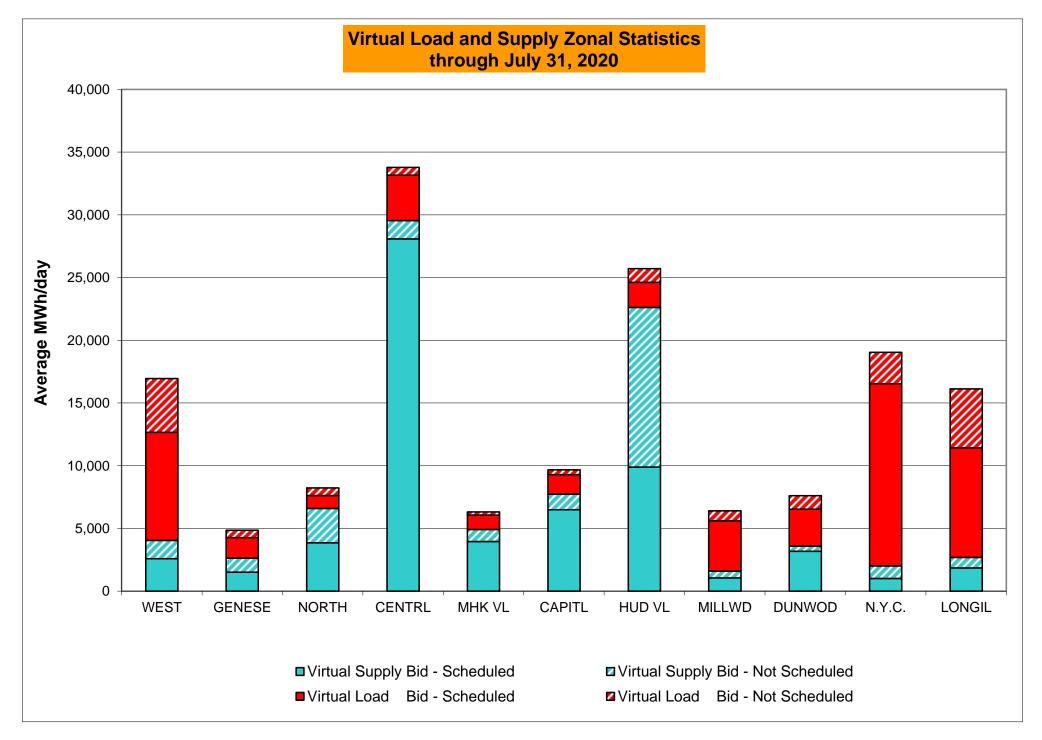
\*Calendar days from reservation date; for June 2018 forward, business days from market date

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



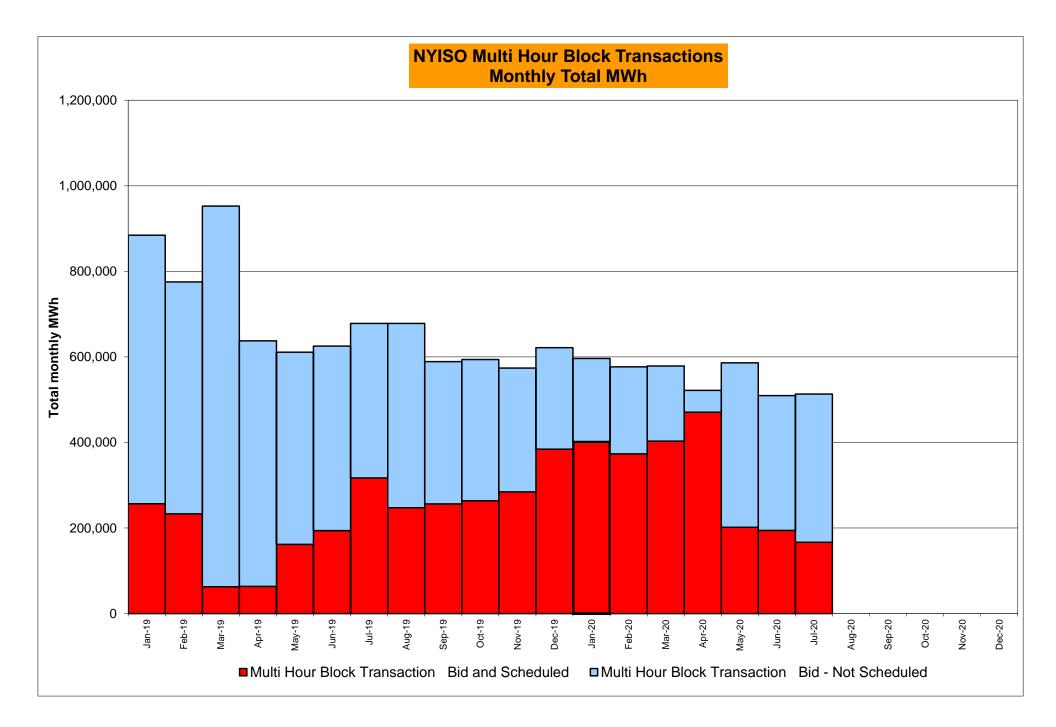
\*Calendar days from reservation date; for June 2018 forward, business days from market date

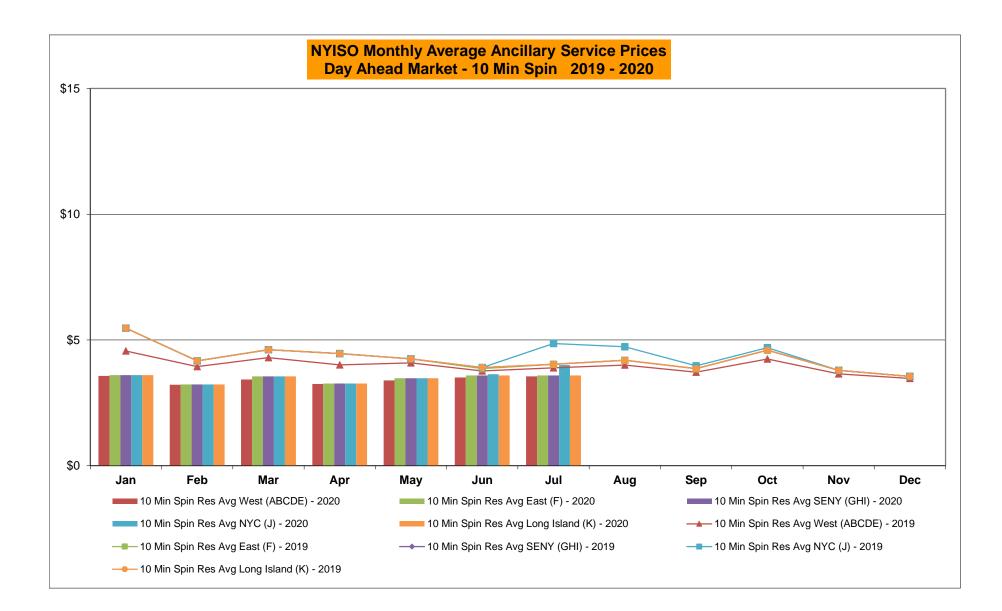


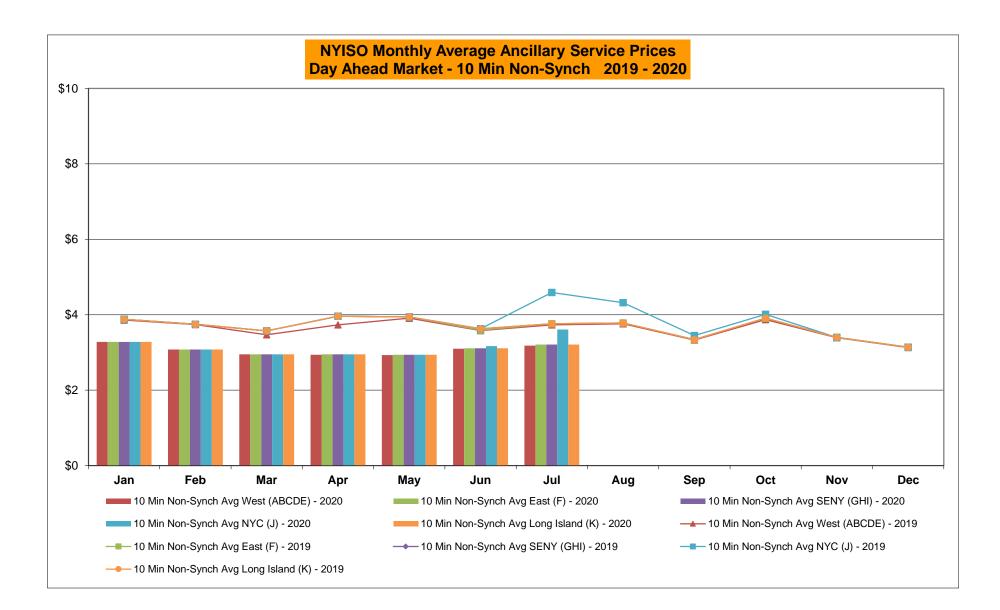


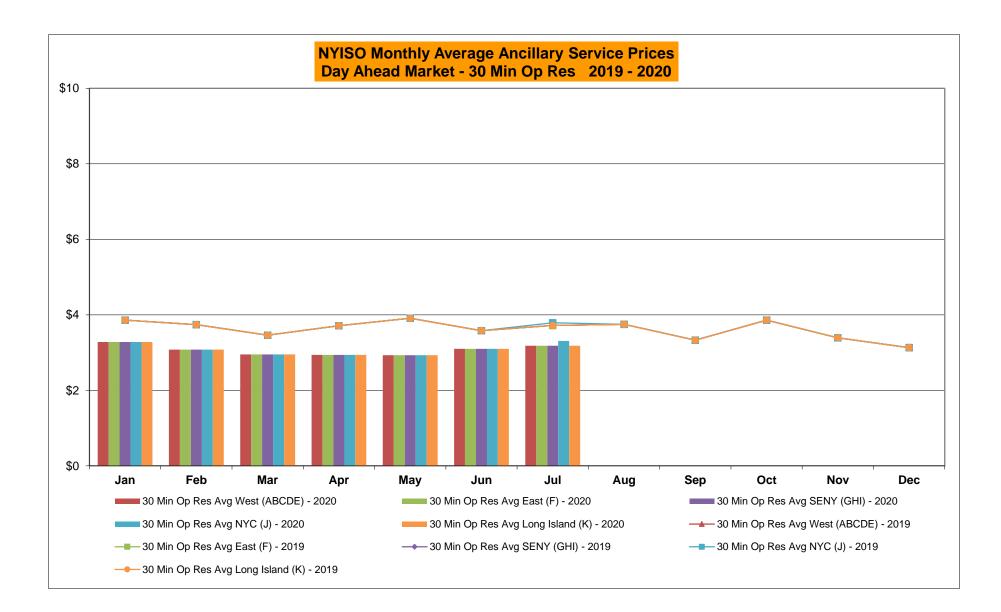
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2020

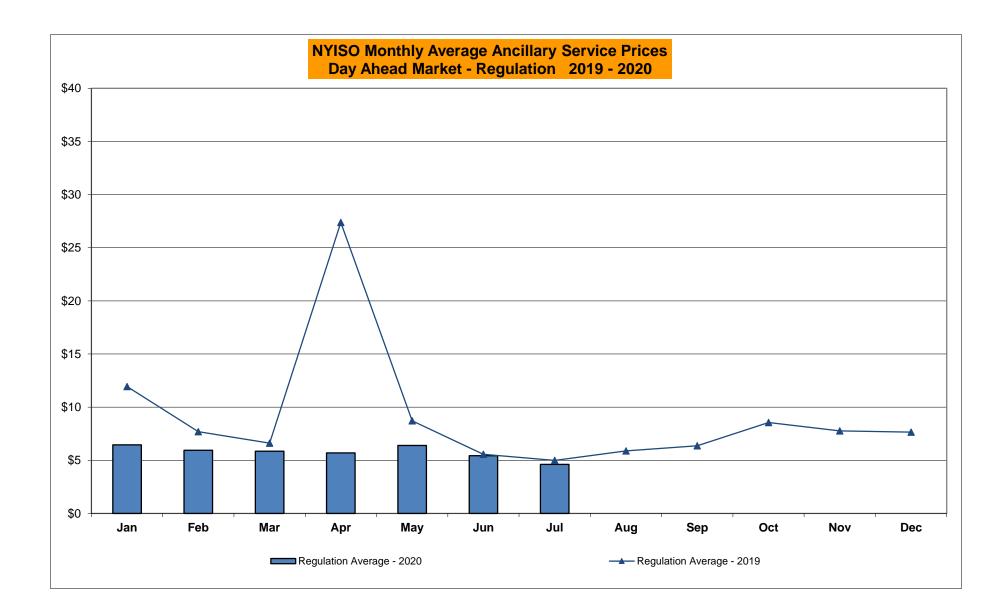
		Virtual L	.oad Bid	Virtual S	upply Bid			Virtual L	.oad Bid	Virtual Su	upply Bid			Virtual L		Virtual Su	ipply Bid
			Not		Not				Not		Not				Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled		Scheduled	Scheduled
WEST	Jan-20	7,809		1,765	984	MHK VL	Jan-20			2,155		DUNWOD	Jan-20		241	3,191	370
	Feb-20	8,213		2,597	947		Feb-20			2,339			Feb-20		298	3,782	368 282 504
	Mar-20	9,155		1,637	1,236		Mar-20		97	2,455	542		Mar-20		109	3,143	282
	Apr-20	10,056		1,542	1,018		Apr-20			2,599			Apr-20		423	2,336	504
	May-20	7,943		2,105	3,397		May-20			1,878			May-20		196	2,373	323
	Jun-20	8,014		1,729	1,706		Jun-20			2,597	770		Jun-20		1,124	2,881	789
	Jul-20	8,616	4,286	2,582	1,469		Jul-20		250	3,965	951		Jul-20	,	1,069	3,181	416
	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	Jan-20	553	131	1,749	995	CAPITL	Jan-20	1,772	539	3,324	1,235	N.Y.C.	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	1,446	443	3,181	837		Mar-20	4,317	1,126	1,676	2,571
	Apr-20	422	42	2,940	622		Apr-20	2,367	825	3,335	928		Apr-20	2,089	546	1,864	2,269
	May-20	356		2,051	618		May-20			2,597	541		May-20		548	1,692	1,049
	Jun-20	949		2,238	939		Jun-20			2,994	472		Jun-20		1,621	1,273	889
	Jul-20	1,633	590	1,508	1,123		Jul-20		392	6,489	1,247		Jul-20		2,512	1,013	1,005
	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	Jan-20	811	206	5,038	1,765	HUD VL	Jan-20	891	1,274	7,573	2,206	LONGIL	Jan-20	5,640	2,824	2,246	1,109
	Feb-20	402	276	5,144	2,014		Feb-20	886	722	8,517	5,838		Feb-20	4,795	1,683	1,678	1,217
	Mar-20	335	293	5,075	2,315		Mar-20	944	634	6,811	10,029		Mar-20		1,429	1,602	1,683
	Apr-20	321	210	5,153	2,057		Apr-20		813	5,955	12,414		Apr-20	5,033	1,036	1,620	1,672
	May-20	2,305		3,547	1,757		May-20			5,998	12,839		May-20		2,125	1,844	1,045
	Jun-20	1,277		3,692	2,128		Jun-20			9,825			Jun-20		2,434	1,568	809
	Jul-20	1,031	612	3,848	2,745		Jul-20		1,091	9,899	12,718		Jul-20		4,710	1,853	840
	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		68	1,811	229		Feb-20		6,838	60,334	14,811
	Mar-20	2,340		17,986	481		Mar-20			1,844			Mar-20	,	6,087	47,704	20,700
	Apr-20			20,490	491		Apr-20			1,510			Apr-20		6,200	49,344	22,953
	May-20	2,736		22,414	414		May-20			1,442			May-20		8,140	47,941	22,346
	Jun-20	4,053		28,114	903		Jun-20			1,789			Jun-20	36,995	11,988	58,701	22,003
	Jul-20	3,622	620	28,085	1,455		Jul-20	4,003	800	1,054	553		Jul-20	49,792	16,933	63,478	24,522
	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				

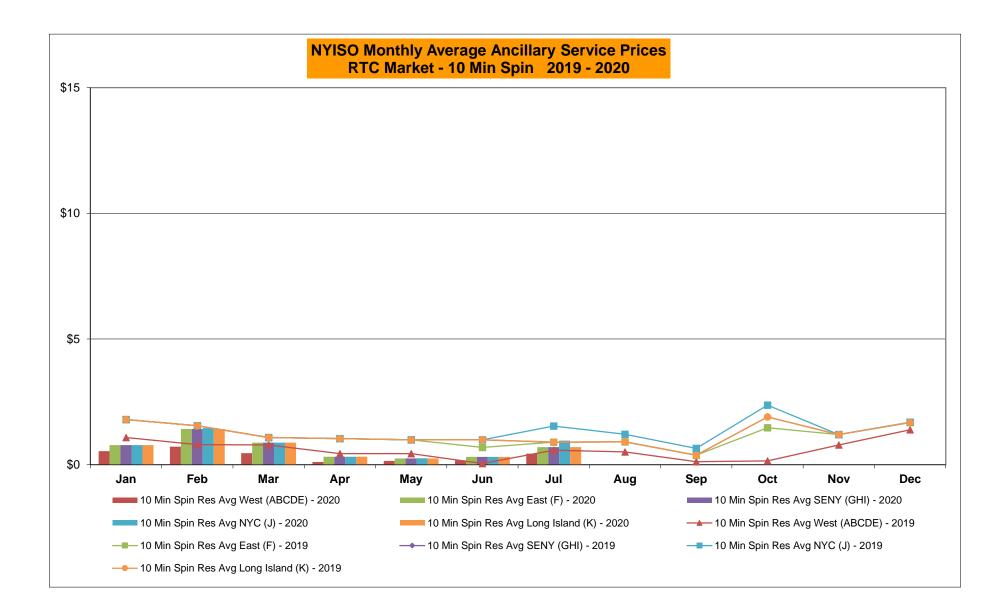


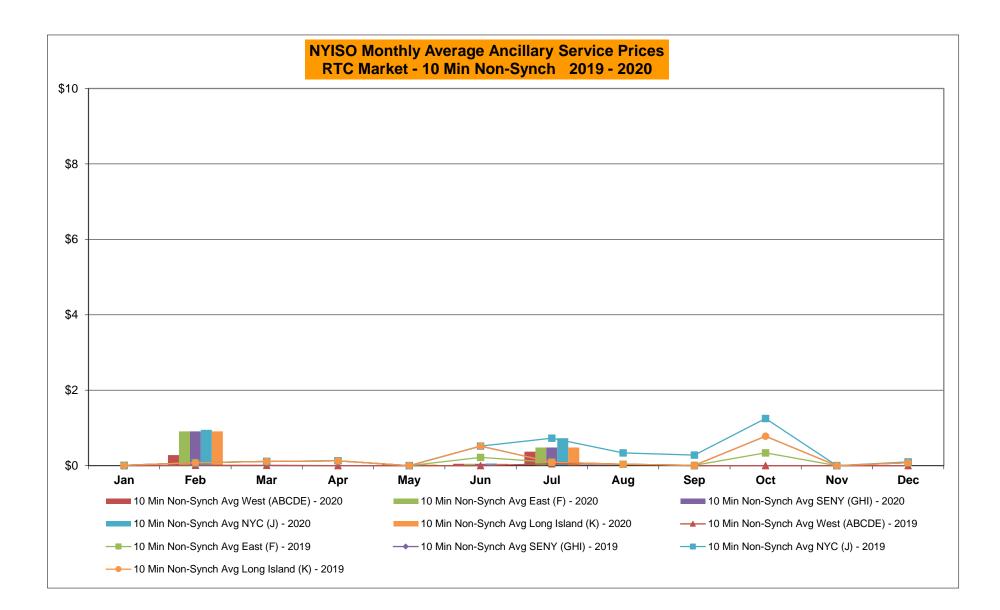


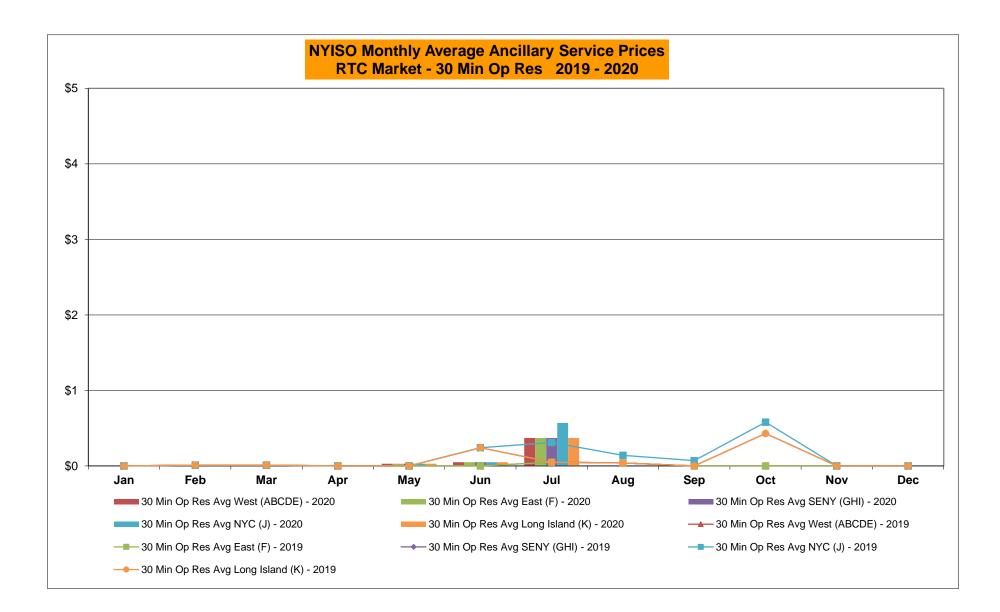


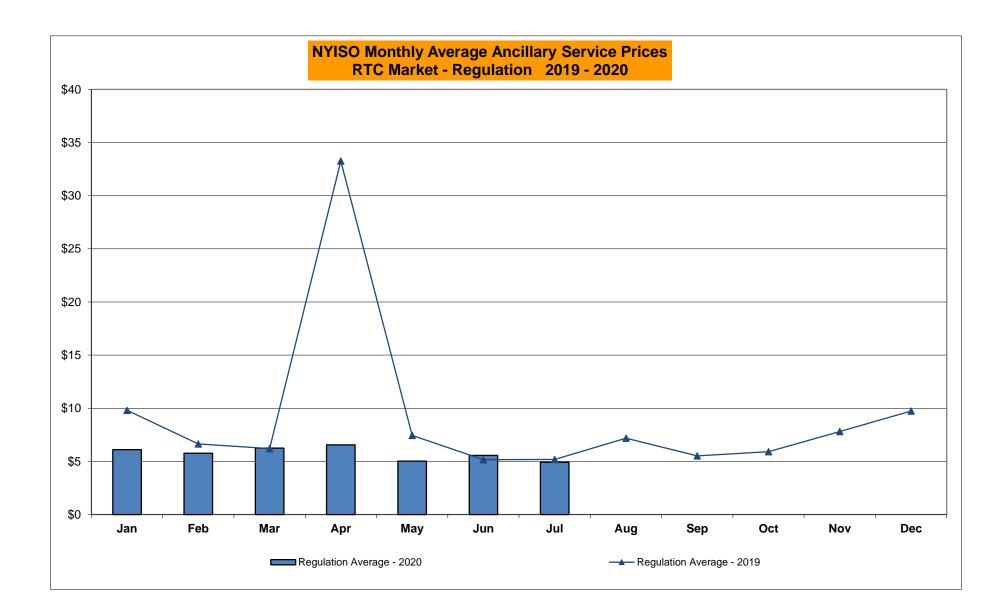


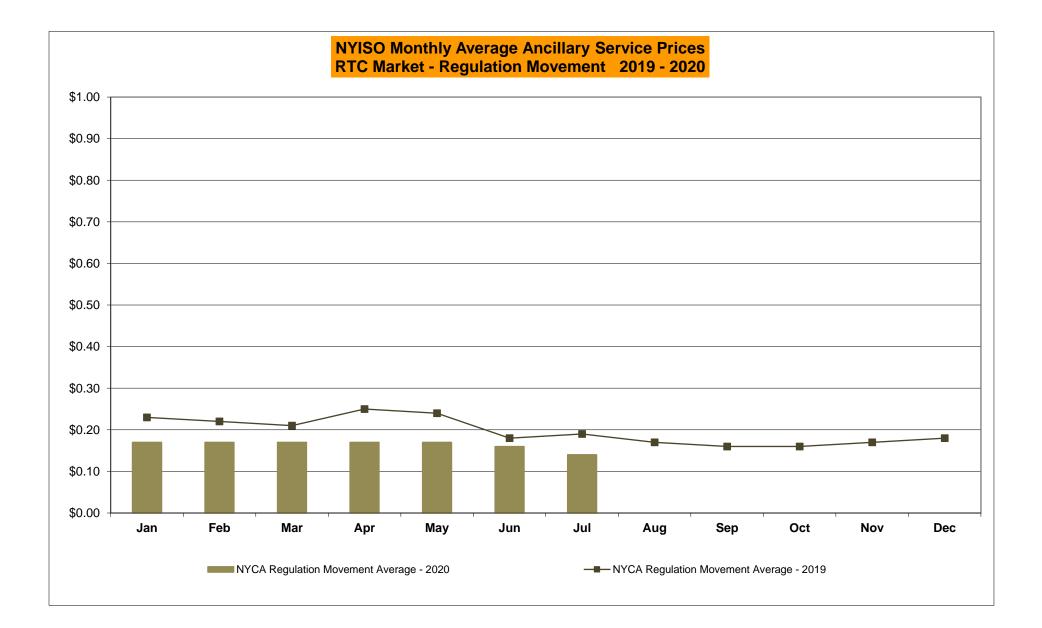


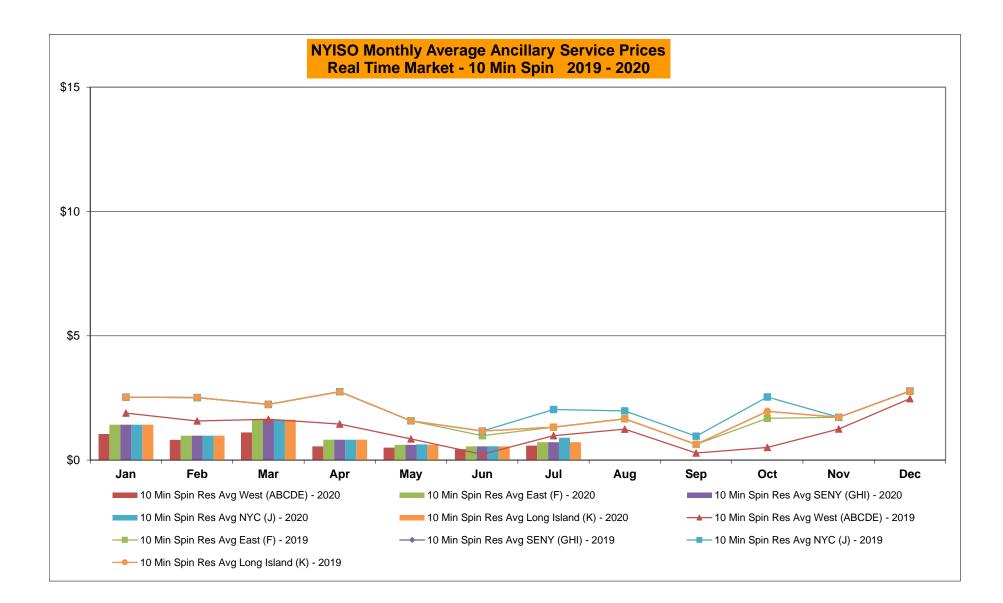


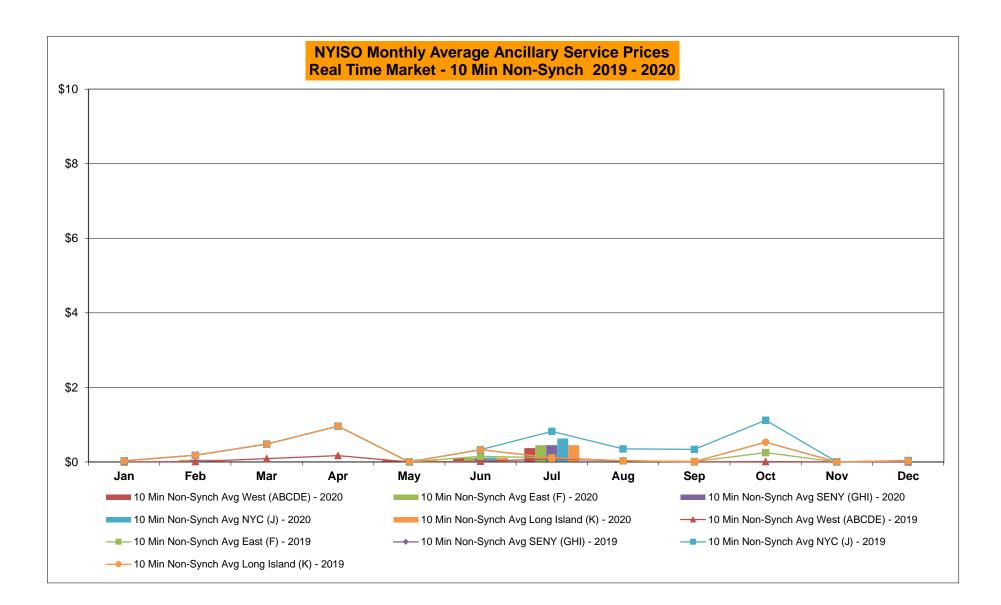


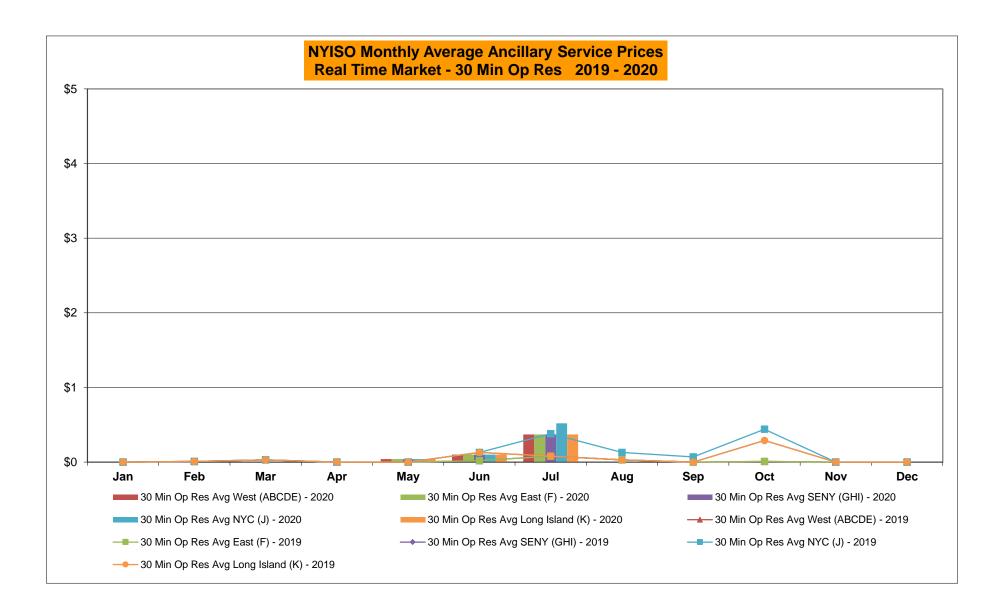


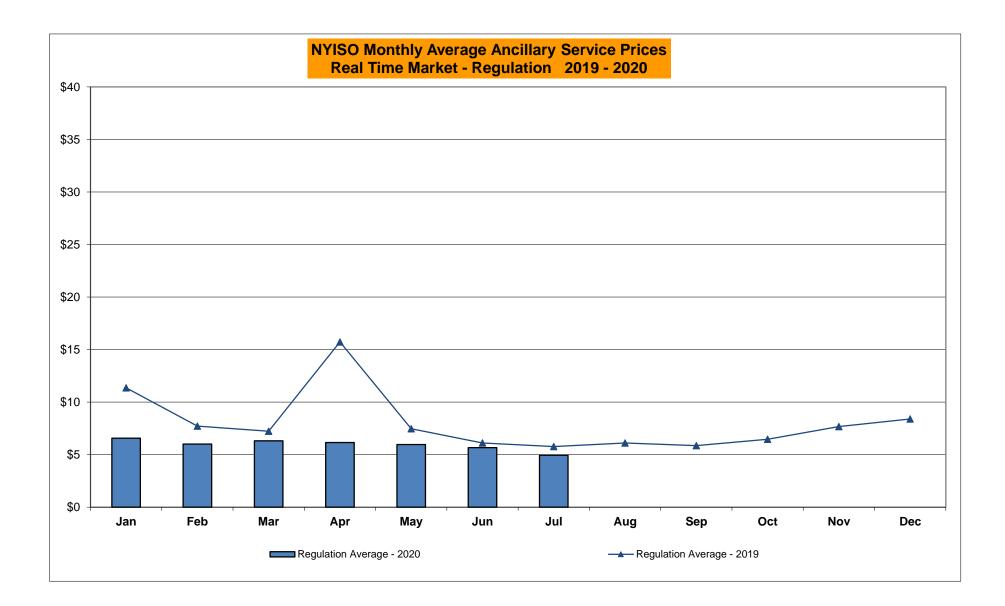


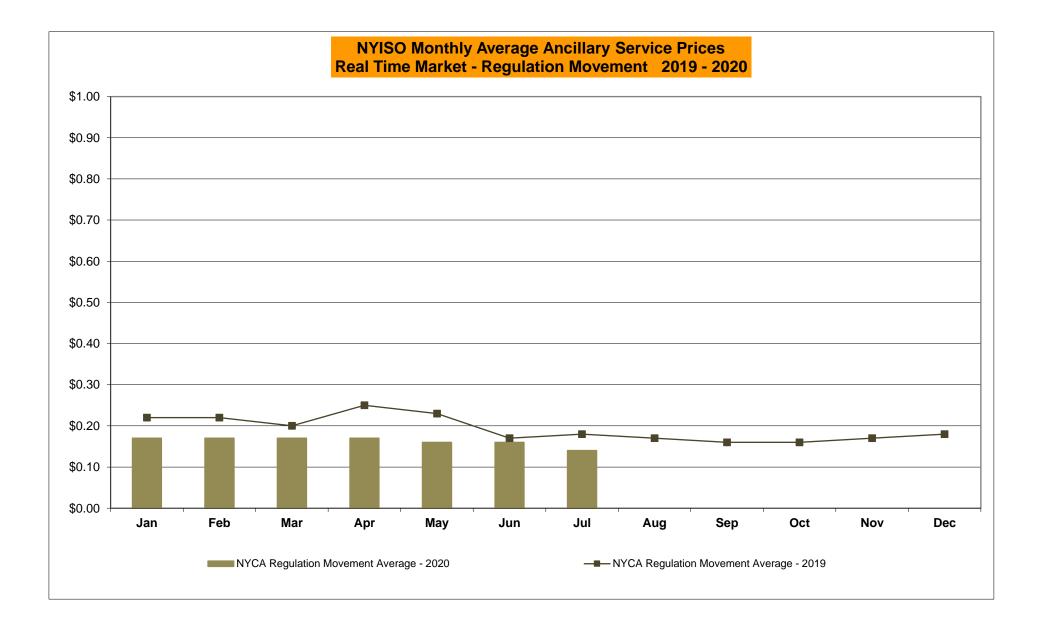












	NTISU Wark	ets Ancii	lary Serv	ices Sta	tistics - l	Jnweign	tea Pric	<u>e (\$/IVIV</u>	<u>VH) - DAN</u>	/
2020	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	(
Day Ahead Market	<i>*</i> _	<u>/</u>			<u>+</u>		<del></del>			_
10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27	3.48	3.59	3.59			
10 Min Spin NYC (J)	3.60	3.23	3.55	3.27	3.48	3.64	4.00			
10 Min Spin SENY (GHI)	3.60	3.23	3.55	3.27	3.48	3.59	3.59			
10 Min Spin East (F)	3.60	3.23	3.55	3.27	3.48	3.59	3.59			
10 Min Spin West (ABCDE)	3.57	3.22	3.43	3.25	3.39	3.51	3.55			
10 Min Non Synch Long Island (K)	3.28	3.08	2.95	2.95	2.94	3.11	3.21			
10 Min Non Synch NYC (J)	3.28	3.08	2.95	2.95	2.94	3.17	3.61			
10 Min Non Synch SENY (GHI)	3.28	3.08	2.95	2.95	2.94	3.11	3.21			
10 Min Non Synch East (F)	3.28	3.08	2.95	2.95	2.94	3.11	3.21			
10 Min Non Synch West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18			
30 Min Long Island (K)	3.28	3.08	2.95	2.94	2.93	3.10	3.18			
30 Min NYC (J)	3.28	3.08	2.95	2.94	2.93	3.10	3.31			
30 Min SENY (GHI)	3.28	3.08	2.95	2.94	2.93	3.10	3.18			
30 Min East (F)	3.28	3.08	2.95	2.94	2.93	3.10	3.18			
30 Min West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18			
Regulation	6.46	5.94	5.86	5.70	6.40	5.44	4.61			
<u>2019</u>	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>(</u>
Day Ahead Market										
10 Min Spin Long Island (K)	5.47	5.47	4.61	4.46	4.25	4.25	4.25	4.19	3.86	
10 Min Spin NYC (J)	5.47	5.47	4.61	4.46	4.25	4.25	4.25	4.73	3.97	
10 Min Spin SENY (GHI)	5.47	4.17	4.61	4.46	4.25	3.90	4.03	4.19	3.86	
10 Min Spin East (F)	5.47	4.17	4.61	4.46	4.25	3.86	4.03	4.19	3.86	
10 Min Spin West (ABCDE)	4.56	3.94	4.30	4.01	4.09	3.77	3.89	4.00	3.72	
10 Min Non Synch Long Island (K)	3.88	3.88	3.57	3.96	3.94	3.94	3.94	3.78	3.34	
10 Min Non Synch NYC (J)	3.88	3.88	3.57	3.96	3.94	3.94	3.94	4.32	3.45	
10 Min Non Synch SENY (GHI)	3.88	3.75	3.57	3.96	3.94	3.63	3.76	3.78	3.34	
10 Min Non Synch East (F)	3.88	3.75	3.57	3.96	3.94	3.59	3.76	3.78	3.34	
10 Min Non Synch West (ABCDE)	3.86	3.74	3.47	3.73	3.91	3.58	3.73	3.76	3.33	
30 Min Long Island (K)	3.86	3.86	3.46	3.71	3.91	3.91	3.91	3.75	3.33	
30 Min NYC (J)	3.86	3.86	3.46	3.71	3.91	3.91	3.91	3.75	3.33	
30 Min SENY (GHI)	3.86	3.74	3.46	3.71	3.91	3.58	3.72	3.75	3.33	
30 Min East (F)	3.86	3.74	3.46	3.71	3.91	3.58	3.72	3.75	3.33	
30 Min West (ABCDE)	3.86	3.74	3.46	3.71	3.91	3.58	3.72	3.75	3.33	
Regulation	11.94	7.69	6.62	27.38	8.71	5.57	4.99	5.89	6.36	

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

<u>October</u>

<u>November</u>

<u>December</u>

<u>October</u>	<u>November</u>	<u>December</u>
4.59	3.79	3.55
4.69	3.79	3.55
4.59	3.79	3.55
4.59	3.79	3.55
4.24	3.65	3.47
3.91	3.40	3.14
4.01	3.40	3.14
3.91	3.40	3.14
3.91	3.40	3.14
3.87	3.39	3.13
3.86	3.39	3.13
3.86	3.39	3.13
3.86	3.39	3.13
3.86	3.39	3.13
3.86	3.39	3.13
8.55	7.77	7.65

<u>2020</u>	<u>January</u>	<b>February</b>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>0</u>
RTC Market										
10 Min Spin Long Island (K)	0.78	1.42	0.88	0.32	0.25	0.31	0.70			
10 Min Spin NYC (J)	0.78	1.46	0.88	0.32	0.26	0.31	0.96			
10 Min Spin SENY (GHI)	0.78	1.42	0.88	0.32	0.25	0.31	0.70			
10 Min Spin East (F)	0.78	1.42	0.88	0.32	0.25	0.31	0.70			
10 Min Spin West (ABCDE)	0.54	0.72	0.46	0.11	0.15	0.17	0.44			
10 Min Non Synch Long Island (K)	0.00	0.91	0.00	0.00	0.03	0.05	0.48			
10 Min Non Synch NYC (J)	0.00	0.95	0.00	0.00	0.04	0.06	0.73			
10 Min Non Synch SENY (GHI)	0.00	0.91	0.00	0.00	0.03	0.05	0.48			
10 Min Non Synch East (F)	0.00	0.91	0.00	0.00	0.03	0.05	0.48			
10 Min Non Synch West (ABCDE)	0.00	0.28	0.00	0.00	0.03	0.05	0.37			
30 Min Long Island (K)	0.00	0.01	0.00	0.00	0.03	0.05	0.37			
30 Min NYC (J)	0.00	0.01	0.00	0.00	0.03	0.05	0.57			
30 Min SENY (GHI)	0.00	0.01	0.00	0.00	0.03	0.05	0.37			
30 Min East (F)	0.00	0.01	0.00	0.00	0.03	0.05	0.37			
30 Min West (ABCDE)	0.00	0.01	0.00	0.00	0.03	0.05	0.37			
Regulation	6.11	5.77	6.25	6.56	5.02	5.56	4.92			
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.17	0.16	0.14			
<u>2019</u>	January	<u>February</u>	Marah	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>0</u>
	<u>January</u>	rebiuary	<u>March</u>	April	may	<u></u>	<u>•••</u>	<u>//ugust</u>	0001011001	
RTC Market		-		-	-			-	·	
10 Min Spin Long Island (K)	1.80	1.80	1.08	1.04	0.99	0.99	0.99	0.91	0.38	
10 Min Spin Long Island (K) 10 Min Spin NYC (J)	1.80 1.80	1.80 1.80	1.08 1.08	1.04 1.04	0.99 0.99	0.99 0.99	0.99 0.99	0.91 1.21	0.38 0.65	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI)	1.80 1.80 1.80	1.80 1.80 1.55	1.08 1.08 1.08	1.04 1.04 1.04	0.99 0.99 0.99	0.99 0.99 0.99	0.99 0.99 0.90	0.91 1.21 0.91	0.38 0.65 0.38	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F)	1.80 1.80 1.80 1.80	1.80 1.80 1.55 1.55	1.08 1.08 1.08 1.08	1.04 1.04 1.04 1.04	0.99 0.99 0.99 0.99	0.99 0.99 0.99 0.69	0.99 0.99 0.90 0.90	0.91 1.21 0.91 0.91	0.38 0.65 0.38 0.38	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	1.80 1.80 1.80 1.80 1.08	1.80 1.80 1.55 1.55 0.80	1.08 1.08 1.08 1.08 0.79	1.04 1.04 1.04 1.04 0.44	0.99 0.99 0.99 0.99 0.99 0.44	0.99 0.99 0.99 0.69 0.05	0.99 0.99 0.90 0.90 0.58	0.91 1.21 0.91 0.91 0.51	0.38 0.65 0.38 0.38 0.12	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K)	1.80 1.80 1.80 1.80 1.08 0.01	1.80 1.80 1.55 1.55 0.80 0.01	1.08 1.08 1.08 1.08 0.79 0.11	1.04 1.04 1.04 1.04 0.44 0.13	0.99 0.99 0.99 0.99 0.44 0.00	0.99 0.99 0.69 0.05 0.00	0.99 0.99 0.90 0.90 0.58 0.00	0.91 1.21 0.91 0.91 0.51 0.04	0.38 0.65 0.38 0.38 0.12 0.01	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J)	1.80 1.80 1.80 1.80 1.08 0.01 0.01	1.80 1.80 1.55 1.55 0.80 0.01 0.01	1.08 1.08 1.08 1.08 0.79 0.11 0.11	1.04 1.04 1.04 1.04 0.44 0.13 0.13	0.99 0.99 0.99 0.99 0.44 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.00	0.99 0.99 0.90 0.90 0.58 0.00 0.00	0.91 1.21 0.91 0.91 0.51 0.04 0.34	0.38 0.65 0.38 0.38 0.12 0.01 0.28	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI)	1.80 1.80 1.80 1.80 1.08 0.01 0.01 0.01	1.80 1.80 1.55 1.55 0.80 0.01 0.01 0.08	1.08 1.08 1.08 1.08 0.79 0.11 0.11 0.11	1.04 1.04 1.04 1.04 0.44 0.13 0.13 0.13	0.99 0.99 0.99 0.44 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.00 0.00 0.52	0.99 0.99 0.90 0.90 0.58 0.00 0.00 0.09	0.91 1.21 0.91 0.91 0.51 0.04 0.34 0.04	0.38 0.65 0.38 0.38 0.12 0.01 0.28 0.01	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F)	1.80 1.80 1.80 1.80 1.08 0.01 0.01 0.01	1.80 1.80 1.55 1.55 0.80 0.01 0.01 0.08 0.08	1.08 1.08 1.08 1.08 0.79 0.11 0.11 0.11	1.04 1.04 1.04 0.44 0.13 0.13 0.13 0.13 0.13	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.00 0.52 0.22	0.99 0.90 0.90 0.58 0.00 0.00 0.09 0.09	0.91 1.21 0.91 0.91 0.51 0.04 0.34 0.04 0.04	0.38 0.65 0.38 0.38 0.12 0.01 0.28 0.01 0.01	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	1.80 1.80 1.80 1.80 1.08 0.01 0.01 0.01	1.80 1.80 1.55 1.55 0.80 0.01 0.01 0.08 0.08 0.01	1.08 1.08 1.08 1.08 0.79 0.11 0.11 0.11 0.11 0.01	1.04 1.04 1.04 1.04 0.44 0.13 0.13 0.13 0.13 0.13 0.00	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.00 0.52 0.22 0.00	0.99 0.90 0.90 0.58 0.00 0.00 0.09 0.09 0.05	0.91 1.21 0.91 0.91 0.51 0.04 0.04 0.04 0.04 0.04	0.38 0.65 0.38 0.12 0.01 0.28 0.01 0.01 0.01 0.00	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K)	1.80 1.80 1.80 1.80 1.08 0.01 0.01 0.01	1.80 1.80 1.55 1.55 0.80 0.01 0.01 0.08 0.08 0.01 0.00	1.08 1.08 1.08 1.08 0.79 0.11 0.11 0.11 0.11 0.01 0.01	1.04 1.04 1.04 1.04 0.44 0.13 0.13 0.13 0.13 0.13 0.00 0.00	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.00 0.52 0.22 0.00 0.00 0.00	0.99 0.90 0.90 0.58 0.00 0.00 0.09 0.05 0.00	0.91 1.21 0.91 0.91 0.51 0.04 0.34 0.04 0.04 0.04 0.04	0.38 0.65 0.38 0.12 0.01 0.28 0.01 0.01 0.01 0.00 0.00	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J)	1.80 1.80 1.80 1.80 1.08 0.01 0.01 0.01	$     1.80 \\     1.80 \\     1.55 \\     1.55 \\     0.80 \\     0.01 \\     0.01 \\     0.08 \\     0.08 \\     0.01 \\     0.00 \\     0.00 \\     0.00 $	1.08 1.08 1.08 1.08 0.79 0.11 0.11 0.11 0.01 0.01 0.01	$1.04 \\ 1.04 \\ 1.04 \\ 1.04 \\ 0.44 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.00 \\ $	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.00 0.52 0.22 0.22 0.00 0.00 0.00	0.99 0.90 0.90 0.58 0.00 0.00 0.09 0.05 0.00 0.00	0.91 1.21 0.91 0.51 0.04 0.34 0.04 0.04 0.04 0.04 0.04 0.04	0.38 0.65 0.38 0.12 0.01 0.28 0.01 0.01 0.01 0.00 0.00 0.00	
10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI)	1.80 1.80 1.80 1.80 1.80 1.08 0.01 0.01	$\begin{array}{c} 1.80\\ 1.80\\ 1.55\\ 1.55\\ 0.80\\ 0.01\\ 0.01\\ 0.08\\ 0.08\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.01\end{array}$	$     1.08 \\     1.08 \\     1.08 \\     1.08 \\     0.79 \\     0.11 \\     0.11 \\     0.11 \\     0.11 \\     0.01$	$\begin{array}{c} 1.04 \\ 1.04 \\ 1.04 \\ 1.04 \\ 0.44 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.00 0.52 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.24	0.99 0.90 0.90 0.58 0.00 0.00 0.09 0.09 0.05 0.00 0.00 0.05	0.91 1.21 0.91 0.91 0.51 0.04 0.04 0.04 0.04 0.04 0.04 0.14 0.04	0.38 0.65 0.38 0.12 0.01 0.28 0.01 0.01 0.00 0.00 0.00 0.07 0.00	
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) 30 Min East (F)	1.80 1.80 1.80 1.80 1.80 1.08 0.01 0.01	$     1.80 \\     1.80 \\     1.55 \\     1.55 \\     0.80 \\     0.01 \\     0.08 \\     0.08 \\     0.01 \\     0.00 \\     0.00 \\     0.01 \\     0.01 \\     0.01 $	$     1.08 \\     1.08 \\     1.08 \\     1.08 \\     0.79 \\     0.11 \\     0.11 \\     0.11 \\     0.11 \\     0.01$	$1.04 \\ 1.04 \\ 1.04 \\ 1.04 \\ 0.44 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.13 \\ 0.00 \\ $	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.52 0.22 0.00 0.00 0.00 0.00 0.00 0.24 0.00	0.99 0.90 0.90 0.58 0.00 0.09 0.09 0.09 0.05 0.00 0.00 0.05 0.05 0.05	0.91 1.21 0.91 0.91 0.51 0.04 0.04 0.04 0.04 0.04 0.04 0.14 0.04 0.0	$\begin{array}{c} 0.38\\ 0.65\\ 0.38\\ 0.38\\ 0.12\\ 0.01\\ 0.28\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.07\\ 0.00\\ 0.00\\ 0.00\end{array}$	
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) 30 Min East (F) 30 Min East (F)	1.80 1.80 1.80 1.80 1.08 0.01 0.01 0.01	$\begin{array}{c} 1.80\\ 1.80\\ 1.55\\ 1.55\\ 0.80\\ 0.01\\ 0.01\\ 0.08\\ 0.08\\ 0.01\\ 0.00\\ 0.00\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\end{array}$	$     1.08 \\     1.08 \\     1.08 \\     1.08 \\     0.79 \\     0.11 \\     0.11 \\     0.11 \\     0.11 \\     0.01$	1.04 1.04 1.04 1.04 0.44 0.13 0.13 0.13 0.13 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.52 0.22 0.00 0.00 0.00 0.00 0.24 0.00 0.00 0.24 0.00 0.00	0.99 0.90 0.90 0.58 0.00 0.09 0.09 0.09 0.05 0.00 0.00 0.05 0.05 0.05 0.05	0.91 1.21 0.91 0.91 0.51 0.04	$\begin{array}{c} 0.38\\ 0.65\\ 0.38\\ 0.38\\ 0.12\\ 0.01\\ 0.28\\ 0.01\\ 0.01\\ 0.00\\$	
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) 30 Min East (F) 30 Min West (ABCDE) Regulation	1.80 1.80 1.80 1.80 1.08 0.01 0.01 0.01	$\begin{array}{c} 1.80\\ 1.80\\ 1.55\\ 1.55\\ 0.80\\ 0.01\\ 0.01\\ 0.08\\ 0.08\\ 0.08\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 6.64\end{array}$	$\begin{array}{c} 1.08\\ 1.08\\ 1.08\\ 1.08\\ 0.79\\ 0.11\\ 0.11\\ 0.11\\ 0.11\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.21\end{array}$	$\begin{array}{c} 1.04\\ 1.04\\ 1.04\\ 1.04\\ 0.44\\ 0.13\\ 0.13\\ 0.13\\ 0.13\\ 0.13\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 33.26\end{array}$	0.99 0.99 0.99 0.44 0.00	0.99 0.99 0.69 0.05 0.00 0.00 0.52 0.22 0.00 0.00 0.00 0.00 0.24 0.00 0.00 0.24 0.00 0.00 5.16	0.99 0.90 0.90 0.58 0.00 0.09 0.09 0.09 0.05 0.00 0.05 0.05 0.05 0.05 5.19	0.91 1.21 0.91 0.91 0.51 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	$\begin{array}{c} 0.38\\ 0.65\\ 0.38\\ 0.38\\ 0.12\\ 0.01\\ 0.28\\ 0.01\\ 0.01\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 5.52\end{array}$	
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) 30 Min East (F) 30 Min East (F)	1.80 1.80 1.80 1.80 1.08 0.01 0.01 0.01	$\begin{array}{c} 1.80\\ 1.80\\ 1.55\\ 1.55\\ 0.80\\ 0.01\\ 0.01\\ 0.08\\ 0.08\\ 0.01\\ 0.00\\ 0.00\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\end{array}$	$     1.08 \\     1.08 \\     1.08 \\     1.08 \\     0.79 \\     0.11 \\     0.11 \\     0.11 \\     0.11 \\     0.01$	1.04 1.04 1.04 1.04 0.44 0.13 0.13 0.13 0.13 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.00 0.52 0.22 0.00 0.00 0.00 0.00 0.24 0.00 0.00 0.24 0.00 0.00	0.99 0.90 0.90 0.58 0.00 0.09 0.09 0.09 0.05 0.00 0.00 0.05 0.05 0.05 0.05	0.91 1.21 0.91 0.91 0.51 0.04	$\begin{array}{c} 0.38\\ 0.65\\ 0.38\\ 0.38\\ 0.12\\ 0.01\\ 0.28\\ 0.01\\ 0.01\\ 0.00\\$	

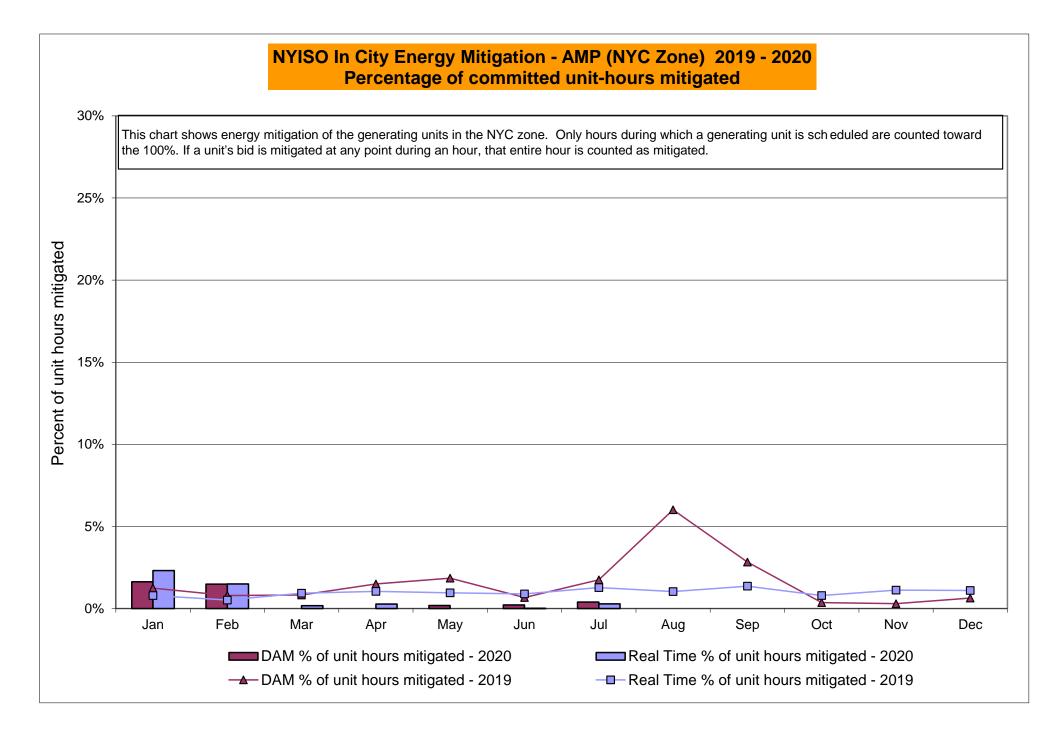
October November

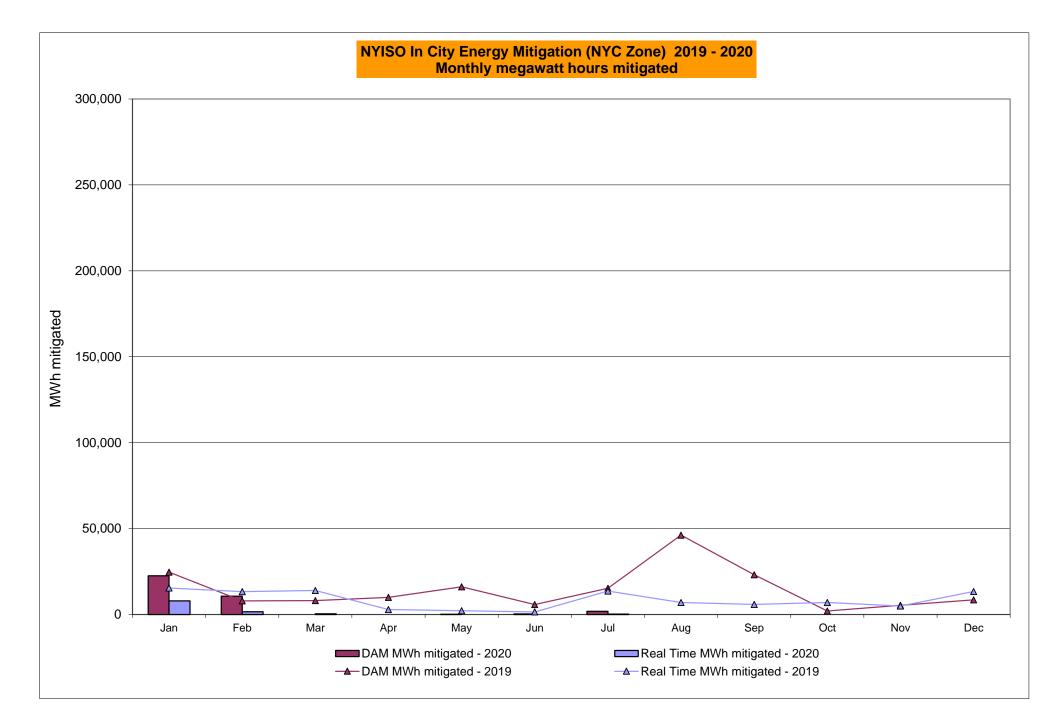
December

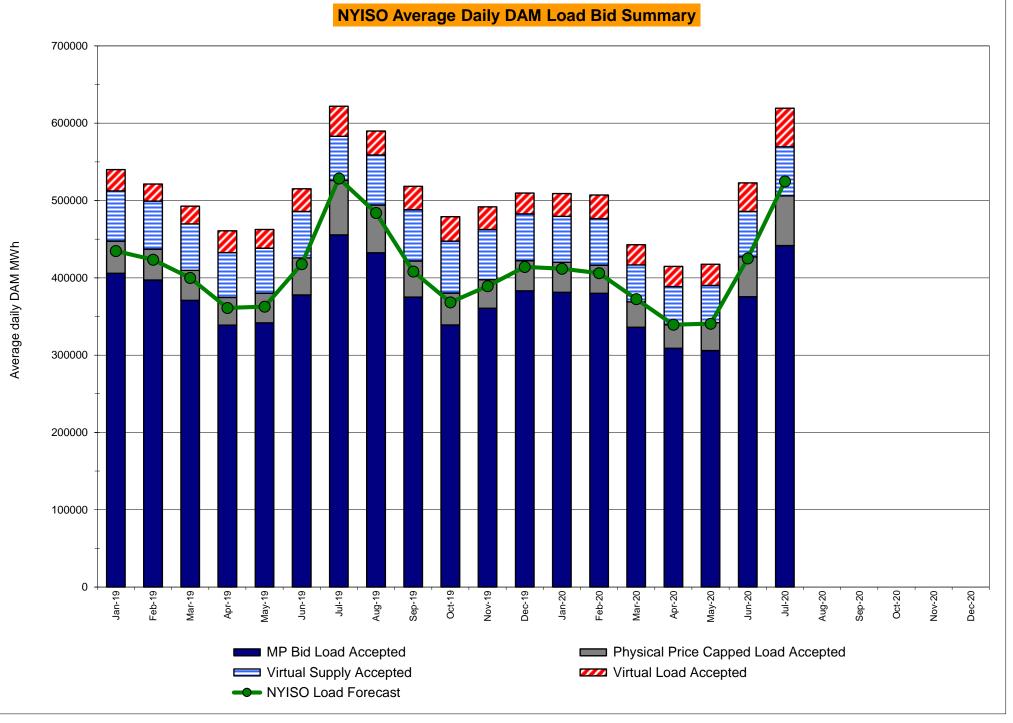
<u>October</u>	<u>November</u>	December
1.90	1.20	1.68
2.37	1.20	1.69
1.90	1.20	1.68
1.47	1.20	1.68
0.15	0.79	1.39
0.78	0.00	0.08
1.25	0.00	0.10
0.78	0.00	0.08
0.34	0.00	0.08
0.00	0.00	0.00
0.43	0.00	0.00
0.58	0.00	0.00
0.43	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
5.91	7.81	9.74
0.16	0.17	0.18

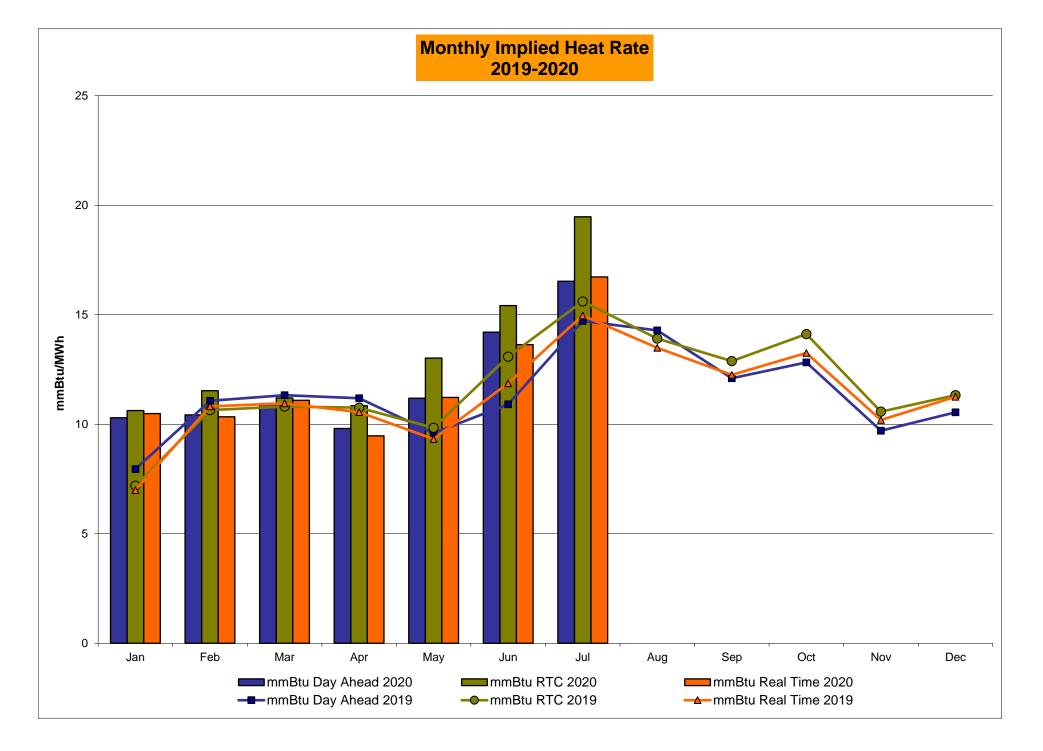
	NYISO Marl	kets Anci	Ilary Ser	vices Sta	atistics -	Unweig	hted Prie	<u>ce (\$/M</u>	<u>WH) - RT</u>			
<u>2020</u>	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Real Time Market												
10 Min Spin Long Island (K)	1.42	0.98	1.62	0.82	0.61	0.55	0.72					
10 Min Spin NYC (J)	1.42	0.98	1.62	0.82	0.63	0.56	0.90					
10 Min Spin SENY (GHI)	1.42	0.98	1.62	0.82	0.61	0.55	0.72					
10 Min Spin East (F)	1.42	0.98	1.62	0.82	0.61	0.55	0.72					
10 Min Spin West (ABCDE)	1.05	0.81	1.11	0.55	0.50	0.44	0.58					
10 Min Non Synch Long Island (K)	0.00	0.06	0.00	0.00	0.04	0.11	0.45					
10 Min Non Synch NYC (J)	0.00	0.06	0.00	0.00	0.07	0.12	0.63					
10 Min Non Synch SENY (GHI)	0.00	0.06	0.00	0.00	0.04	0.11	0.45					
10 Min Non Synch East (F)	0.00	0.06	0.00	0.00	0.04	0.11	0.45					
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37					
30 Min Long Island (K)	0.00	0.00	0.00	0.00	0.04	0.10	0.37					
30 Min NYC (J)	0.00	0.00	0.00	0.00	0.04	0.10	0.52					
30 Min SENY (GHI)	0.00	0.00	0.00	0.00	0.04	0.10	0.37					
30 Min East (F)	0.00	0.00	0.00	0.00	0.04	0.10	0.37					
30 Min West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37					
Regulation	6.57	6.00	6.32	6.16	5.96	5.67	4.94					
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.16	0.16	0.14					
<u>2019</u>	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Real Time Market												
10 Min Spin Long Island (K)	2.53	2.53	2.24	2.75	1.58	1.58	1.58	1.66	0.63	1.96	1.72	2.77
10 Min Spin NYC (J)	2.53	2.53	2.24	2.75	1.58	1.58	1.58	1.98	0.96	2.54	1.72	2.78
10 Min Spin SENY (GHI)	2.53	2.51	2.24	2.75	1.58	1.17	1.32	1.66	0.63	1.96	1.72	2.77
10 Min Spin East (F)	2.53	2.51	2.24	2.75	1.58	0.98	1.32	1.66	0.63	1.68	1.72	2.77
10 Min Spin West (ABCDE)	1.89	1.57	1.64	1.45	0.85	0.23	0.98	1.24	0.28	0.51	1.25	2.47
10 Min Non Synch Long Island (K)	0.03	0.03	0.48	0.96	0.00	0.00	0.00	0.03	0.01	0.53	0.00	0.03
10 Min Non Synch NYC (J)	0.03	0.03	0.48	0.96	0.00	0.00	0.00	0.35	0.34	1.12	0.00	0.04
10 Min Non Synch SENY (GHI)	0.03	0.18	0.48	0.96	0.00	0.33	0.11	0.03	0.01	0.53	0.00	0.03
10 Min Non Synch East (F)	0.03	0.18	0.48	0.96	0.00	0.15	0.11	0.03	0.01	0.25	0.00	0.03
10 Min Non Synch West (ABCDE)	0.00	0.01	0.09	0.17	0.00	0.02	0.08	0.03	0.00	0.01	0.00	0.00
30 Min Long Island (K)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.29	0.00	0.00
30 Min NYC (J)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.13	0.07	0.44	0.00	0.00
30 Min SENY (GHI)	0.00	0.01	0.03	0.00	0.00	0.13	0.08	0.03	0.00	0.29	0.00	0.00
30 Min East (F)	0.00	0.01	0.03	0.00	0.00	0.02	0.08	0.03	0.00	0.01	0.00	0.00
30 Min West (ÁBCDE)	0.00	0.01	0.03	0.00	0.00	0.02	0.08	0.03	0.00	0.01	0.00	0.00
Regulation	11.36	7.72	7.23	15.73	7.47	6.11	5.77	6.11	5.86	6.47	7.67	8.40
NYCA Regulation Movement	0.22	0.22	0.20	0.25	0.23	0.17	0.18	0.17	0.16	0.16	0.17	0.18

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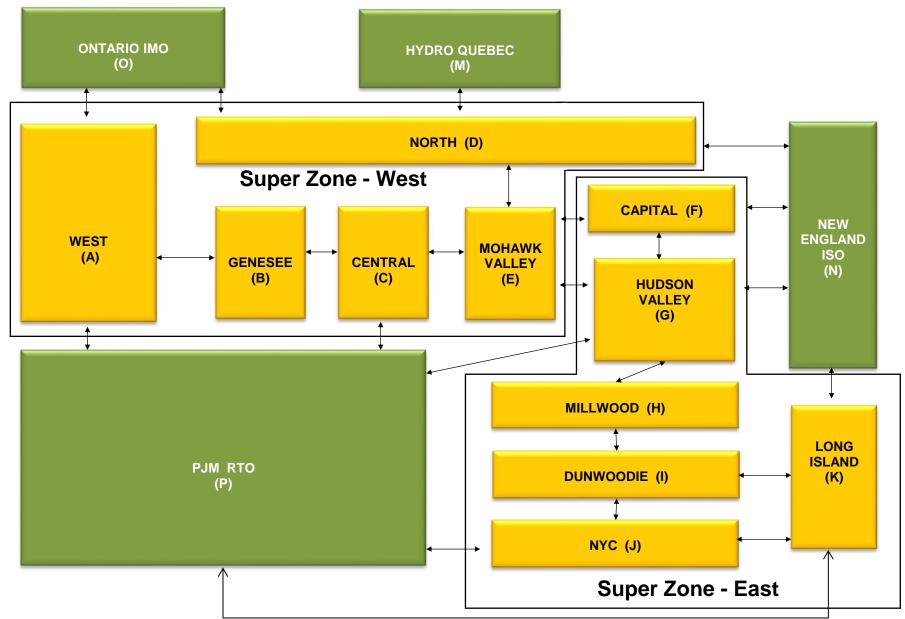






Market Mitigation and Analysis Prepared: 8/10/2020 1:29 PM

# NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 8/10/2020 1:32 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



