

# **Market Operations Report**

#### Rana Mukerji

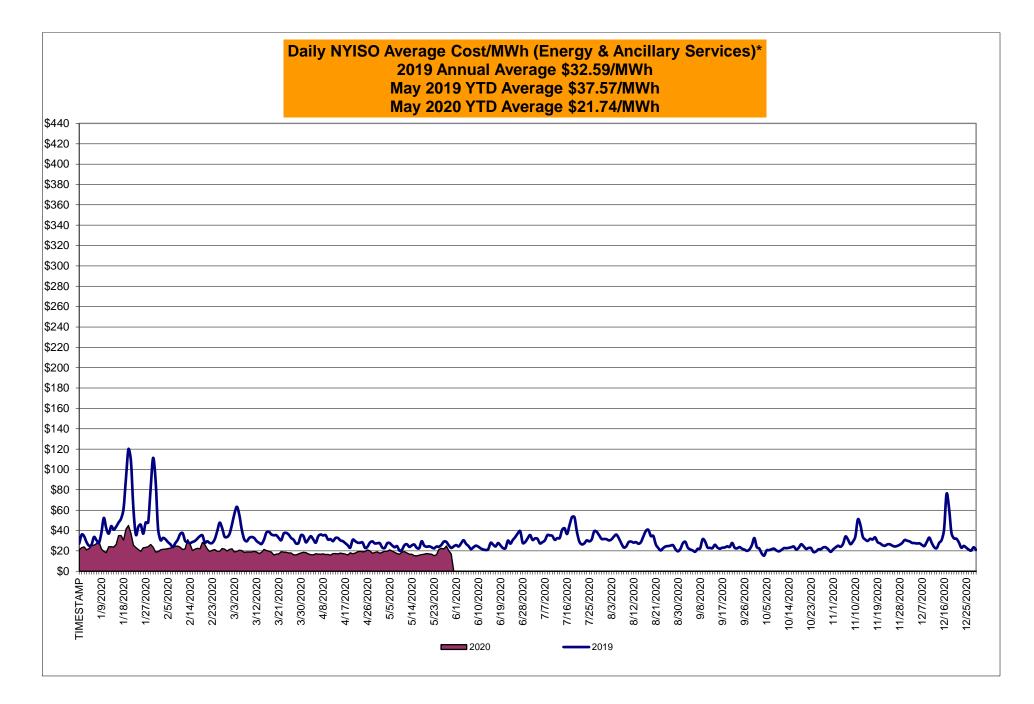
SENIOR VICE PRESIDENT – MARKET STRUCTURES, NYISO

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

June 24, 2020 Rensselaer, NY

## Market Performance Highlights May 2020

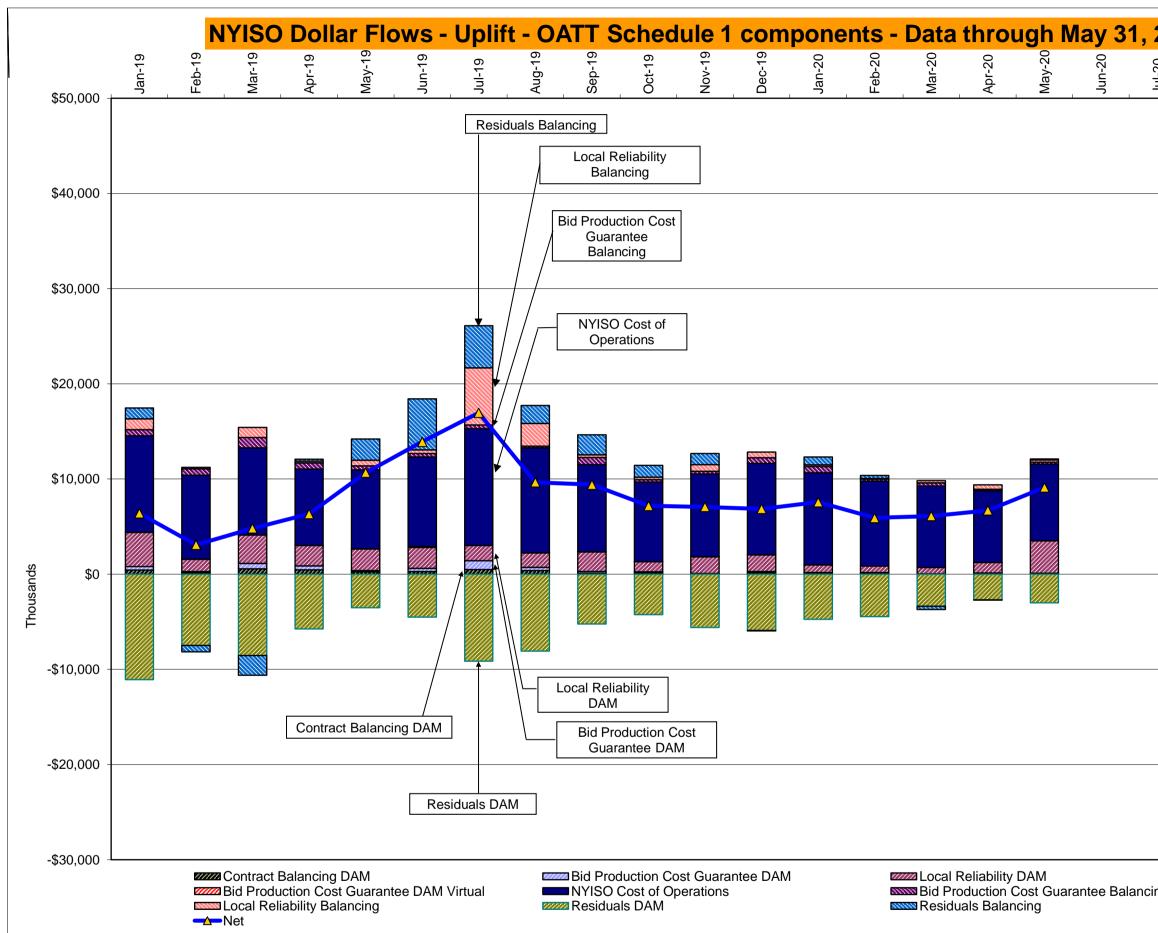
- LBMP for May is \$16.14/MWh; higher than \$15.77/MWh in April 2020 and lower than \$23.10/MWh in May 2019.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to April.
- May 2020 average year-to-date monthly cost of \$21.82/MWh is a 42% decrease from \$37.57/MWh in May 2019.
- Average daily sendout is 345 GWh/day in May; higher than 344 GWh/day in April 2020 and lower than 373 GWh/day in May 2019.
- Natural gas prices are lower and distillate prices are mixed compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$1.33 /MMBtu, down from \$1.51/MMBtu in April.
  - Natural gas prices are down 41.4% year-over-year.
  - Jet Kerosene Gulf Coast was \$5.12/MMBtu, up from \$4.60/MMBtu in April.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$6.36/MMBtu, down from \$6.42/MMBtu in April.
  - Distillate prices are down 60.6% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is \$0.09/MWh; higher than (\$0.08)/MWh in April.
    - Local Reliability Share is \$0.32/MWh, higher than \$0.14/MWh in April.
    - Statewide Share is (\$0.23)/MWh, lower than (\$0.21)/MWh in April.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than April.



\* Excludes ICAP payments.

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<b>2020</b> LBMP	<u>January</u> 24.77	<u>February</u> 21.11	<u>March</u> 17.11	<u>April</u> 15.77	<u>May</u> 16.14	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
NTAC	0.91	0.70	0.86	0.91	1.05							
Reserve	0.46	0.43	0.47	0.50	0.53							
Regulation	0.09	0.08	0.09	0.08	0.10							
NYISO Cost of Operations	0.68	0.69	0.68	0.66	0.71							
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.11							
Uplift	(0.15)	(0.23)	(0.19)	(0.08)	0.09							
Uplift: Local Reliability Share	0.07	0.06	0.07	0.14	0.32							
Uplift: Statewide Share	(0.22)	(0.29)	(0.26)	(0.21)	(0.23)							
Voltage Support and Black Start	0.44	0.44	0.44	0.43	0.45							
Avg Monthly Cost	27.29	23.32	19.55	18.38	19.16							
Avg YTD Cost	27.29	25.40	23.48	22.38	21.82							
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00							
2019	January	February	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	<u>29.52</u>
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 <sup>´</sup>	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.

202	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	
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#### **NYISO Markets Transactions**

<u>2020</u>	January	February	March	<u>April</u>	May	June	<u>July</u>	August	<u>September</u>	October	November	<u>December</u>
Day Ahead Market MWh	14,194,609	13,172,669	12,495,999		11,462,320		<u>oury</u>	ragaor				<u>B000111801</u>
	56%	56%	59%	54%	55%							
DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	50 % 6%	5%	5%	54 % 7%	4%							
DAM External TC LBMF Energy Sales	30%	30%	27%	30%	4 % 31%							
DAM Bilateral - Importi/Non-LBMP Market Bilaterals	5%	5%	6%	50 % 6%	6%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	5 % 2%	5 % 2%	2%	0 % 2%	2%							
DAM Bilateral - Wheel Through Bilaterals	1%	2 % 1%	2 % 1%	2 % 1%	2 <i>%</i> 1%							
Balancing Energy Market MWh	-26,753	-142,168	144,076	22,599	-137,565							
Balancing Energy LSE Internal LBMP Energy Sales	-1080%	-221%	-85%	-884%	-187%							
Balancing Energy External TC LBMP Energy Sales	1156%	181%	240%	1233%	137%							
Balancing Energy Bilateral - Internal Bilaterals	62%	5% 0%	12%	55%	12%							
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	127%	16%	18%	92%	12%							
Balancing Energy Bilateral - Wheel Through Bilaterals	-365%	-81%	-85%	-396%	-74%							
Transactions Summary												
LBMP	62%	62%	65%	61%	59%							
Internal Bilaterals	31%	31%	27%	30%	32%							
Import Bilaterals	5%	5%	6%	6%	6%							
Export Bilaterals	2%	2%	2%	2%	2%							
Wheels Through	0%	1%	0%	0%	0%							
Market Share of Total Load												
Day Ahead Market	100.2%	101.1%	98.9%	99.8%	101.2%							
Balancing Energy +	-0.2%	-1.1%	1.1%	0.2%	-1.2%							
Total MWH	14,167,856	13,030,501	12,640,075	11,394,989	11,324,755							
Average Daily Energy Sendout/Month GWh	423	417	375	344	345							
2019	January	February	March	April	Mav	June	Julv	August	September	October	November	December
2019 Day Abead Market MWb	<u>January</u> 15 200 458	February	<u>March</u>	<u>April</u>	<u>May</u> 12 521 583	<u>June</u> 13 723 372	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	15,299,458	13,391,383	13,527,834	11,811,029	12,521,583	13,723,372	17,416,589	16,379,968	13,588,715	12,567,821	13,036,152	14,345,711
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	15,299,458 57%	13,391,383 57%	13,527,834 59%	11,811,029 59%	12,521,583 57%	13,723,372 58%	17,416,589 64%	16,379,968 63%	13,588,715 58%	12,567,821 57%	13,036,152 54%	14,345,711 56%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	15,299,458 57% 6%	13,391,383 57% 5%	13,527,834 59% 3%	11,811,029 59% 1%	12,521,583 57% 3%	13,723,372 58% 3%	17,416,589 64% 3%	16,379,968 63% 3%	13,588,715 58% 3%	12,567,821 57% 4%	13,036,152 54% 6%	14,345,711 56% 6%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	15,299,458 57% 6% 29%	13,391,383 57% 5% 30%	13,527,834 59% 3% 30%	11,811,029 59% 1% 31%	12,521,583 57% 3% 32%	13,723,372 58% 3% 29%	17,416,589 64% 3% 26%	16,379,968 63% 3% 26%	13,588,715 58% 3% 30%	12,567,821 57% 4% 32%	13,036,152 54% 6% 32%	14,345,711 56% 6% 30%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	15,299,458 57% 6% 29% 5%	13,391,383 57% 5% 30% 5%	13,527,834 59% 3% 30% 5%	11,811,029 59% 1% 31% 5%	12,521,583 57% 3% 32% 6%	13,723,372 58% 3% 29% 5%	17,416,589 64% 3% 26% 4%	16,379,968 63% 3% 26% 4%	13,588,715 58% 3% 30% 5%	12,567,821 57% 4% 32% 5%	13,036,152 54% 6% 32% 5%	14,345,711 56% 6% 30% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	15,299,458 57% 6% 29% 5% 1%	13,391,383 57% 5% 30% 5% 1%	13,527,834 59% 3% 30% 5% 2%	11,811,029 59% 1% 31% 5% 2%	12,521,583 57% 3% 32% 6% 2%	13,723,372 58% 3% 29% 5% 2%	17,416,589 64% 3% 26% 4% 1%	16,379,968 63% 3% 26% 4% 1%	13,588,715 58% 3% 30% 5% 2%	12,567,821 57% 4% 32% 5% 2%	13,036,152 54% 6% 32% 5% 2%	14,345,711 56% 6% 30% 5% 2%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	15,299,458 57% 6% 29% 5% 1% 2%	13,391,383 57% 5% 30% 5% 1% 2%	13,527,834 59% 3% 30% 5% 2% 2% 2%	11,811,029 59% 1% 31% 5% 2% 2%	12,521,583 57% 3% 32% 6% 2% 1%	13,723,372 58% 3% 29% 5% 2% 2%	17,416,589 64% 3% 26% 4% 1% 2%	16,379,968 63% 3% 26% 4% 1% 2%	13,588,715 58% 3% 30% 5% 2% 2%	12,567,821 57% 4% 32% 5% 2% 1%	13,036,152 54% 6% 32% 5% 2% 1%	14,345,711 56% 6% 30% 5% 2% 1%
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Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM 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 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% 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 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	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67% -1%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178% 113% 2%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150% 68% 1%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233% 0%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199% 5%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41% 0%	13,588,715 58% 3% 30% 5% 2% 2% 2% -247,267 -163% 93% -4%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266% 6%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332% 1435% 103%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480% 699% 39%
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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 - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4%	13,391,383 57% 5% 30% 5% 1% 2% -323,188 -126% 67% -1% 0% 7%	13,527,834 59% 3% 30% 5% 2% 2% -261,217 -138% 82% -3% 0% 6%	11,811,029 59% 1% 31% 5% 2% 2% -218,482 -178% 113% 2% 0% 7%	12,521,583 57% 3% 32% 6% 2% 1% -392,699 -150% 68% 1% 0% 2%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233% 0% 0% 8%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199% 5% 15% 8%	16,379,968 63% 3% 26% 4% 1% 2% -514,102 -119% 41% 0% 0% 0% 1%	13,588,715 58% 3% 30% 5% 2% 2% 2% -247,267 -163% 93% -4% 0% 6%	12,567,821 57% 4% 32% 5% 2% 1% -112,057 -346% 266% 6% 0% 25%	13,036,152 54% 6% 32% 5% 2% 1% -17,421 -1332% 1435% 103% 0% 170%	14,345,711 56% 6% 30% 5% 2% 1% 46,828 -480% 699% 39% 0% 70%
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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         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy Bilateral - Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         MP         Internal Bilaterals	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% -47% 62% 30% 5% 2% 1%	13,527,834 59% 3% 30% 5% 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% 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% -247,267 -163% 93% -4% 0% 6% -31% 61% 30% 5% 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 Market MWh         Balancing Energy Market MWh         Balancing Energy Bilateral - Importl/Non-LBMP 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         Import Bilaterals         Import Bilaterals         Import Bilaterals         Mheels Through         Market Share of Total Load         Day Ahead Market         Balancing Energy +	15,299,458 57% 6% 29% 5% 1% 2% -322,442 -120% 65% -4% 0% 3% -45% 63% 29% 5% 1% 1% 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% 2% 0%	13,723,372 58% 3% 29% 5% 2% 2% -102,044 -264% 233% 0% 0% 8% -77% 62% 30% 5% 2% 1% 100.7% -0.7%	17,416,589 64% 3% 26% 4% 1% 2% 103,628 -2% 199% 5% 15% 8% -125% 68% 25% 4% 1% 1% 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% -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 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 External TC LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Import//Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Mport Bilaterals         Import Bilaterals<	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% -47% 62% 30% 5% 2% 1%	13,527,834 59% 3% 30% 5% 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% 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% -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%

+ 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: 6/8/2020 11:06 AM

<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

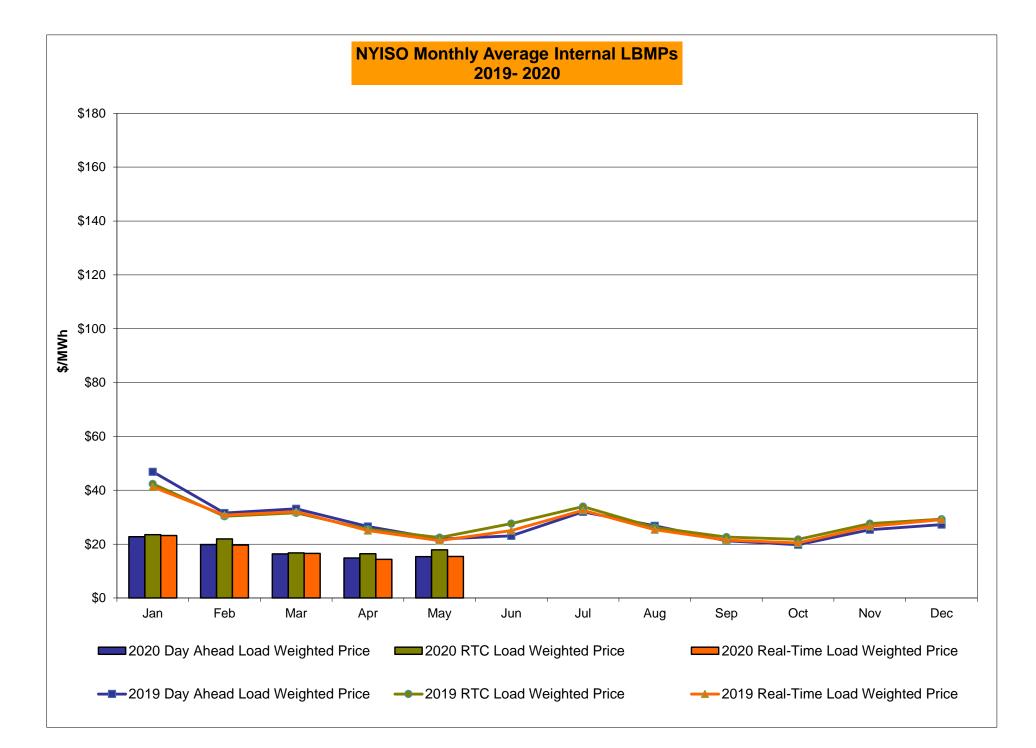
#### NYISO Markets 2020 Energy Statistics

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

#### NYISO Markets 2019 Energy Statistics

	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	<u>July</u>	August S	<u>September</u>	<u>October</u>	November [	<u>December</u>
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 Load Weighted Price **	\$25.67 \$46.88	\$12.86 \$31.53	\$9.30 \$33.14	\$6.32 \$26.57	\$5.89 \$21.89	\$7.28 \$23.04	\$12.06 \$31.98	\$8.73 \$26.83	\$5.57 \$21.23	\$5.09 \$19.77	\$7.73 \$25.36	\$11.81 \$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.

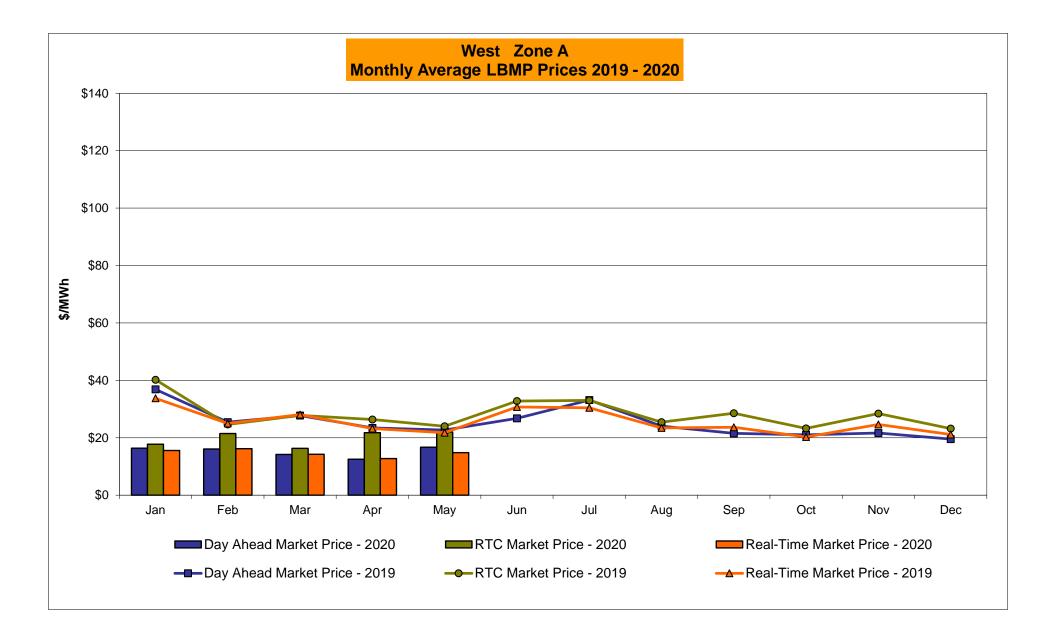


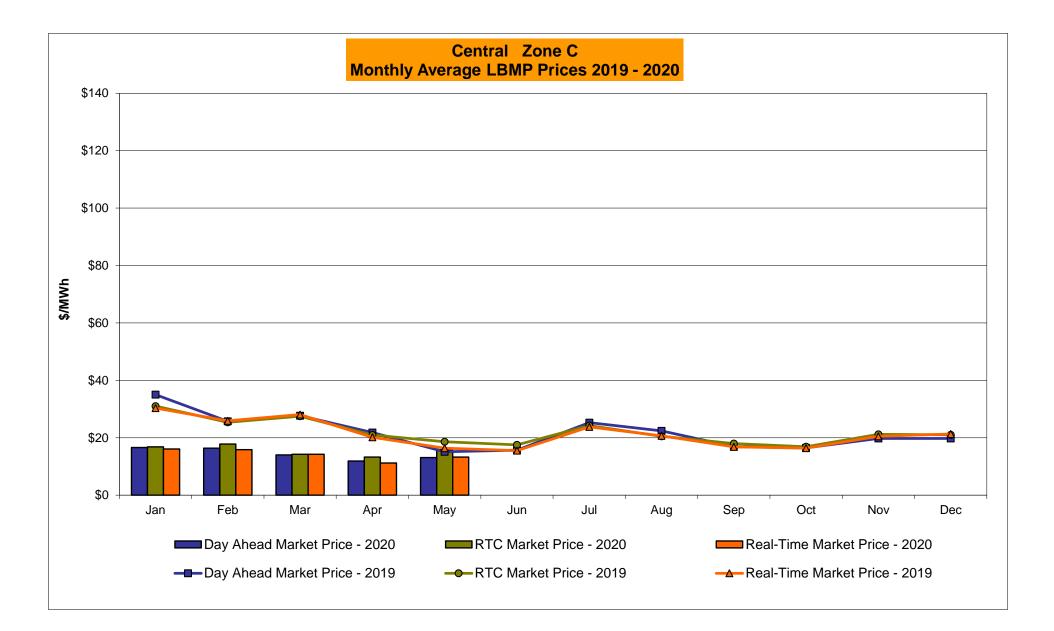
#### May 2020 Zonal LBMP Statistics for NYISO (\$/MWh)

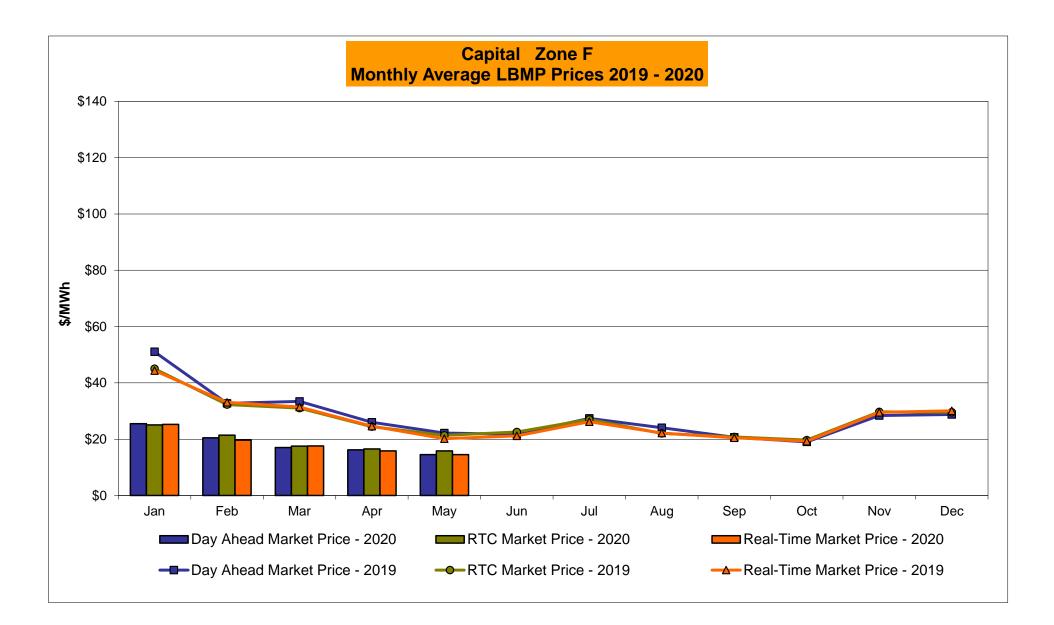
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	<u>Zone I</u>	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	16.72	12.65	8.47	13.08	12.57	14.50	14.57	14.72	14.77	14.95	19.44
Standard Deviation	7.61	3.27	3.34	3.51	2.99	2.95	3.15	3.21	3.24	3.31	5.32
RTC LBMP											
Unweighted Price *	21.97	14.56	9.67	15.77	14.60	15.86	15.95	16.05	16.09	16.28	24.62
Standard Deviation	25.61	5.70	12.26	11.12	6.39	4.74	4.58	4.58	4.58	5.04	43.47
REAL TIME LBMP											
Unweighted Price *	14.83	12.61	7.93	13.27	12.57	14.49	14.35	14.46	14.49	14.72	21.16
Standard Deviation	16.74	8.00	13.73	9.26	8.04	8.34	7.74	7.78	7.78	8.12	17.87

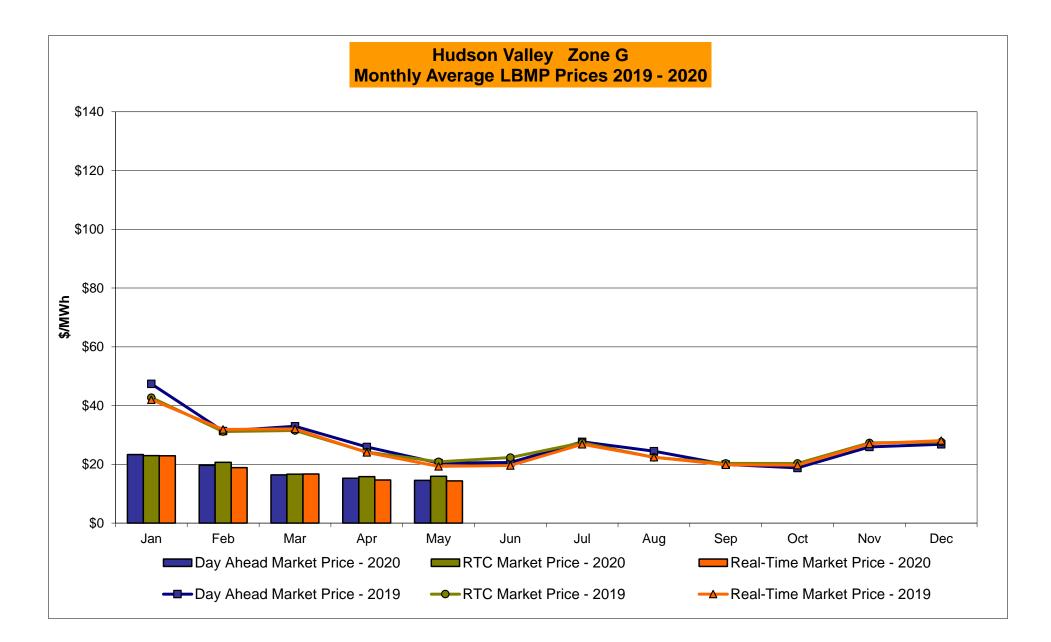
	ONTARIO		HYDRO QUEBEC	DIM		CROSS SOUND					Dennisen
	IESO	(wheel)	(Import/Export)	PJM	ENGLAND	CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	Zone O	Zone M	Zone M	Zone P	Zone N	Controllable Line	<u>Controllable</u> Line	Controllable Line	Controllable Line	Controllable Line	<u>Controllable</u> <u>Line</u>
DAY AHEAD LBMP				<u>Zone r</u>							
Unweighted Price *	9.69	11.31	11.31	9.69	15.25	13.97	19.54	18.81	8.46	14.80	18.81
Standard Deviation	2.99	2.56	2.56	2.99	3.05	3.51	5.43	4.92	3.24	3.22	5.34
RTC LBMP											
Unweighted Price *	8.46	12.73	12.73	8.46	18.96	15.83	24.86	24.83	9.48	16.01	23.67
Standard Deviation	12.19	5.22	5.22	12.19	12.03	6.45	43.85	43.86	12.69	4.34	42.46
REAL TIME LBMP											
Unweighted Price *	9.54	11.02	11.00	9.54	16.36	13.41	21.34	20.17	7.80	14.41	20.37
Standard Deviation	9.71	7.57	7.64	9.71	23.91	8.48	18.36	22.25	13.52	7.76	17.84

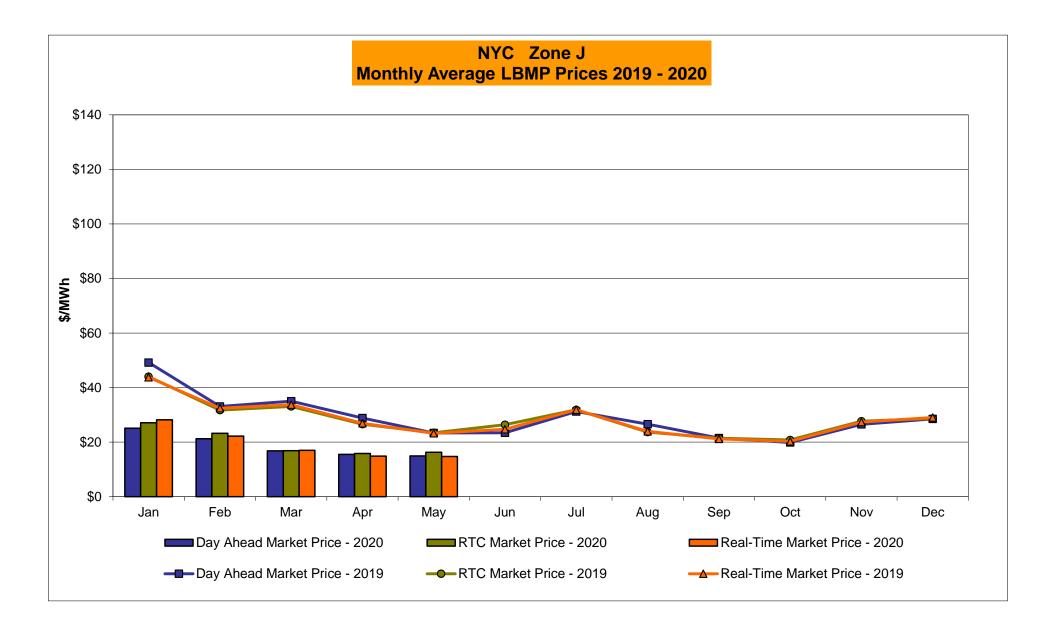
\* Straight LBMP averages

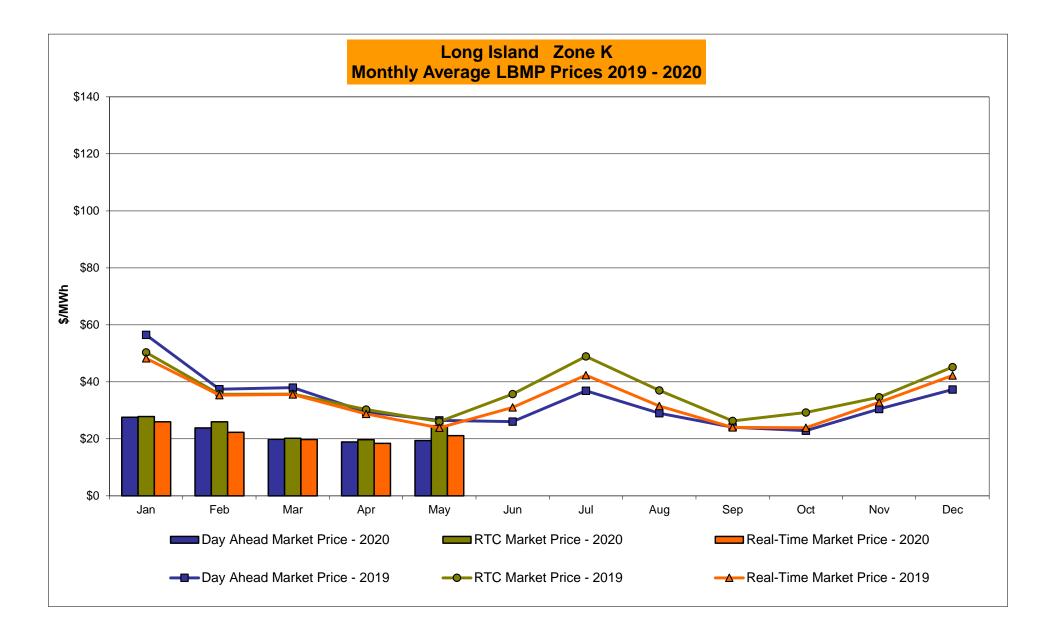


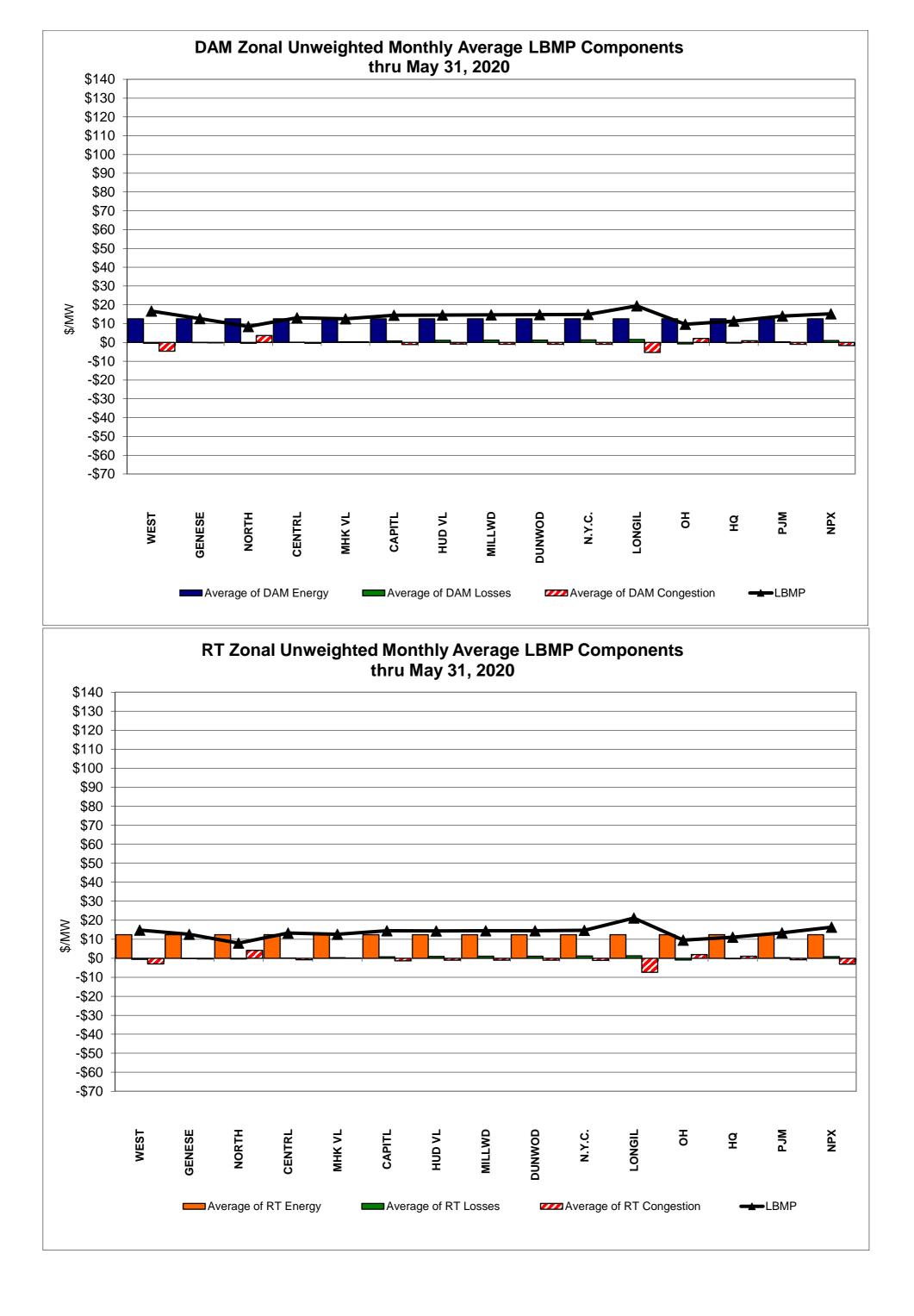




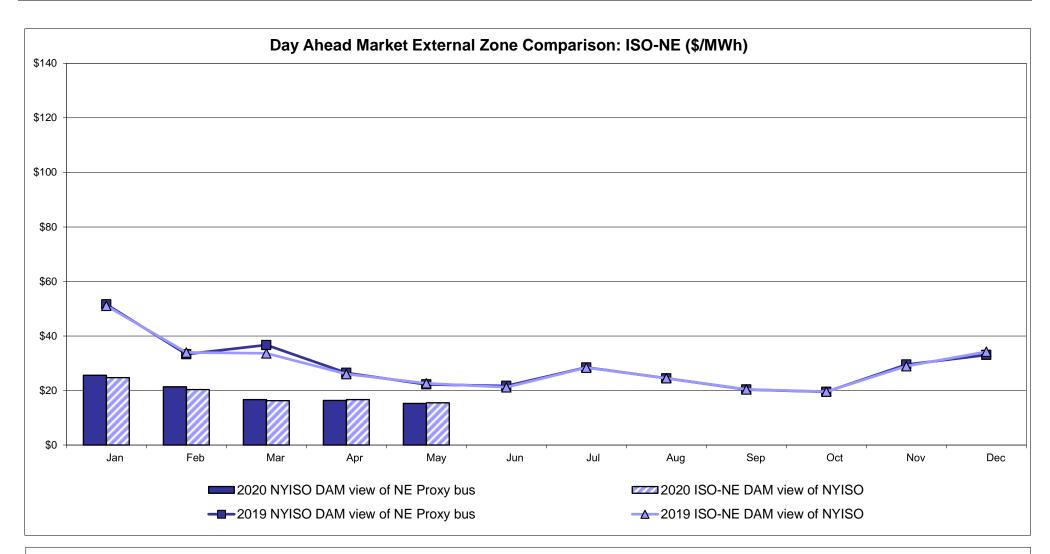


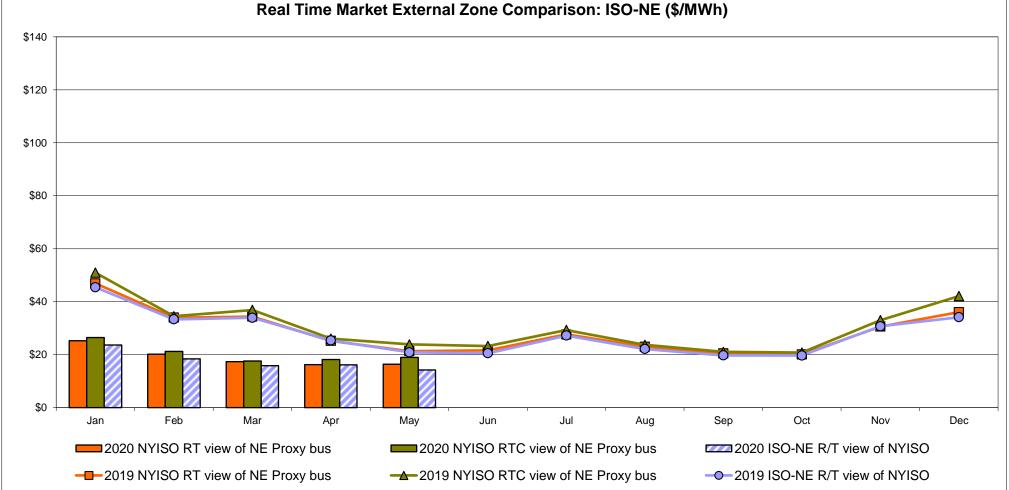


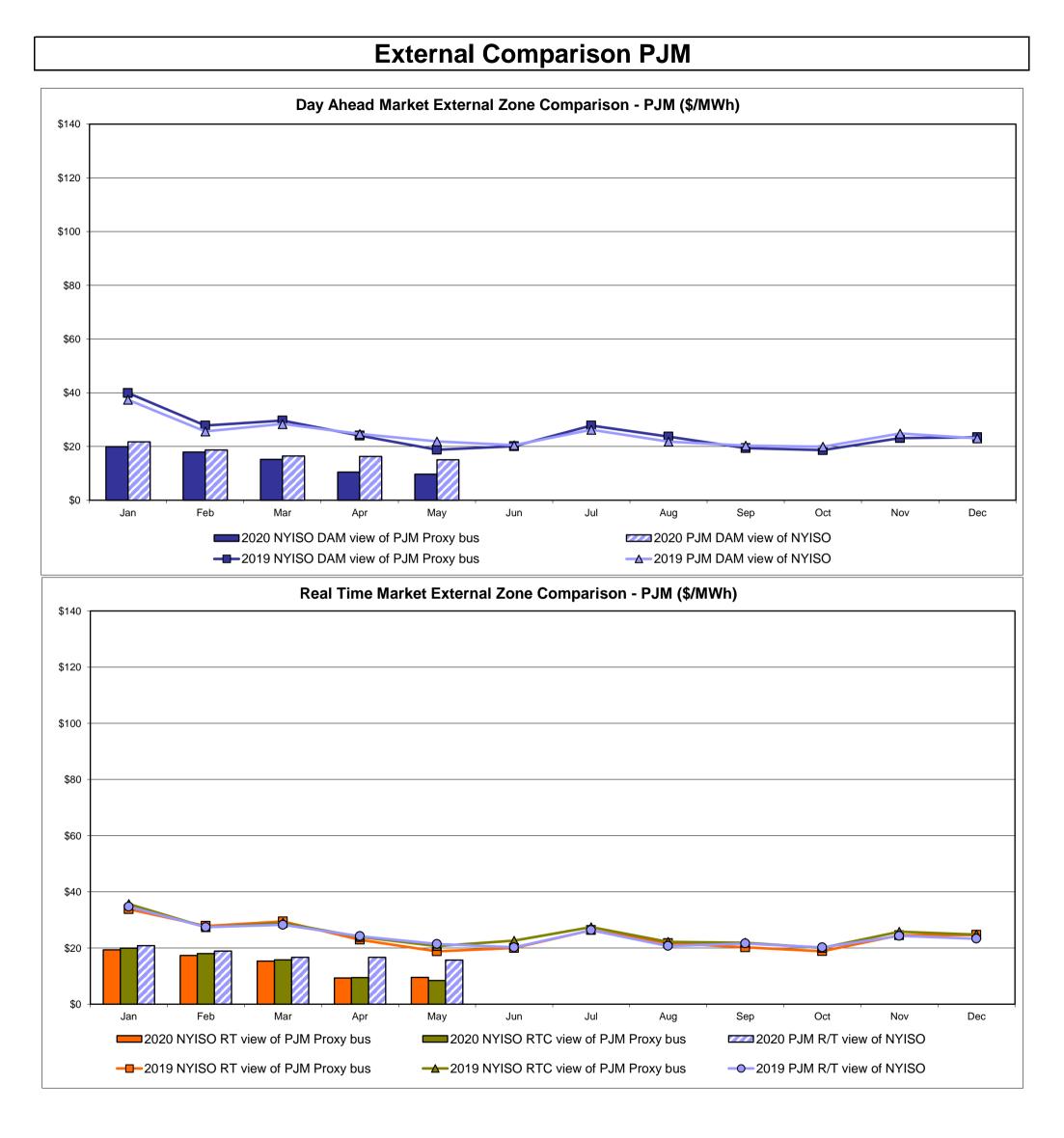




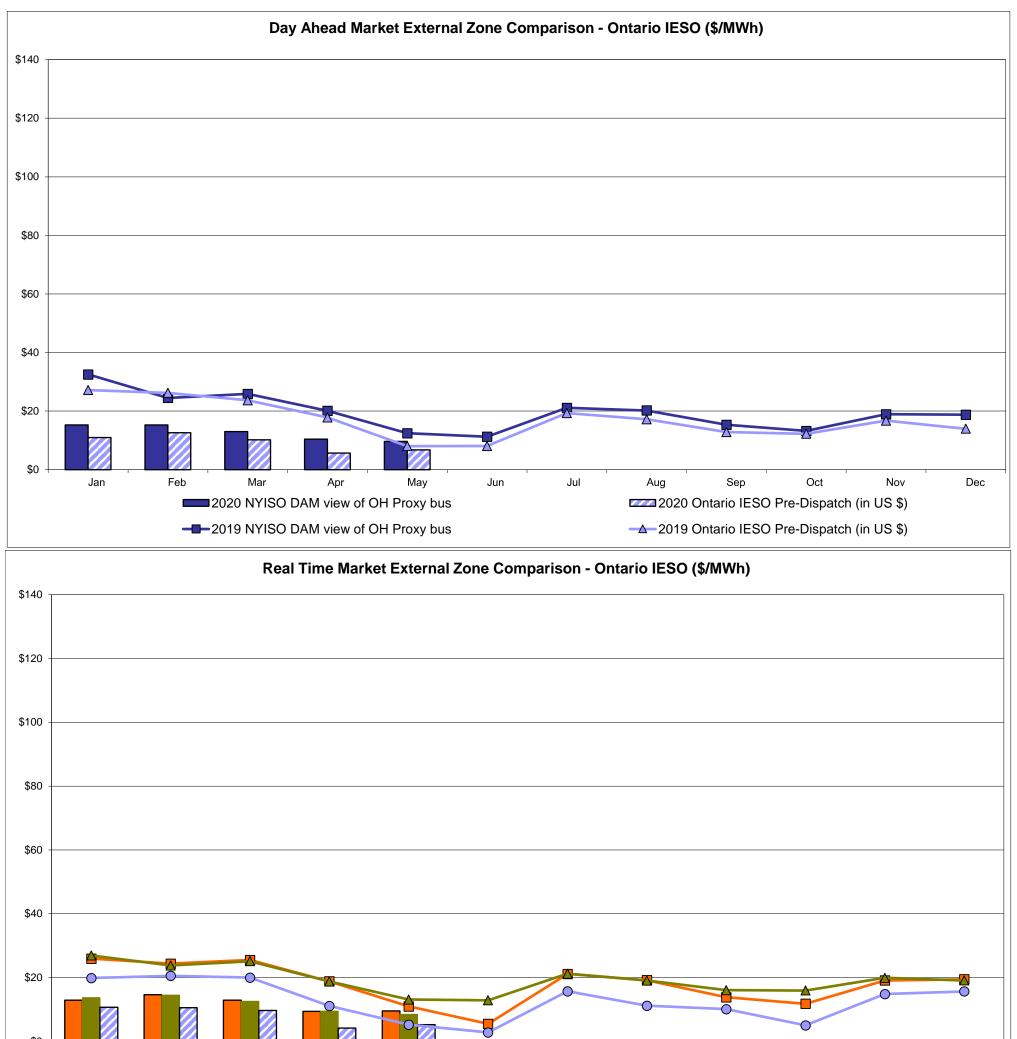
## External Comparison ISO-New England







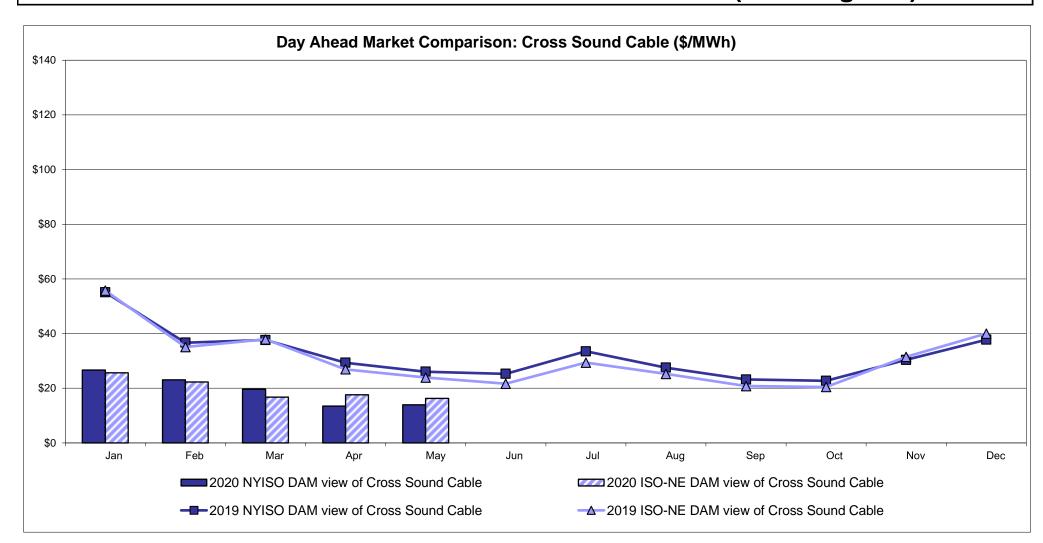
### **External Comparison Ontario IESO**



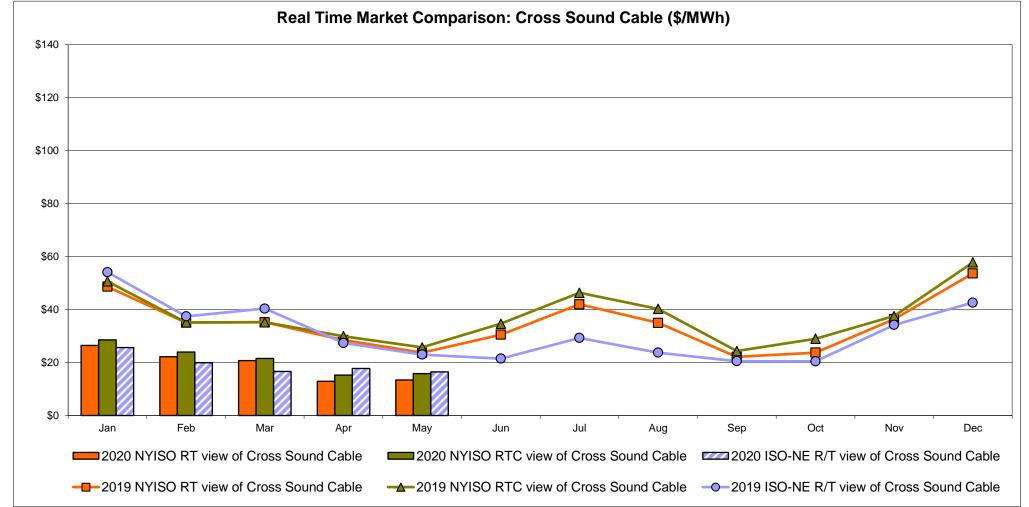
\$0 +-•	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	202	20 NYISO RT v	iew of OH Pro	oxy bus	2020	NYISO RTC	view of OH P	roxy bus	2020	Ontario IESC	) HOEP (in US	\$ \$)
	<b></b> 201	9 NYISO RT v	iew of OH Pro	oxy bus	<b></b> 2019	NYISO RTC	view of OH P	roxy bus	-0-2019	Ontario IESC	HOEP (in US	S \$)

Notes: Exchange factor used for May 2020 was 0.71571714858288 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

> Market Mitigation and Analysis Prepared: 6/8/2020 11:02 AM



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

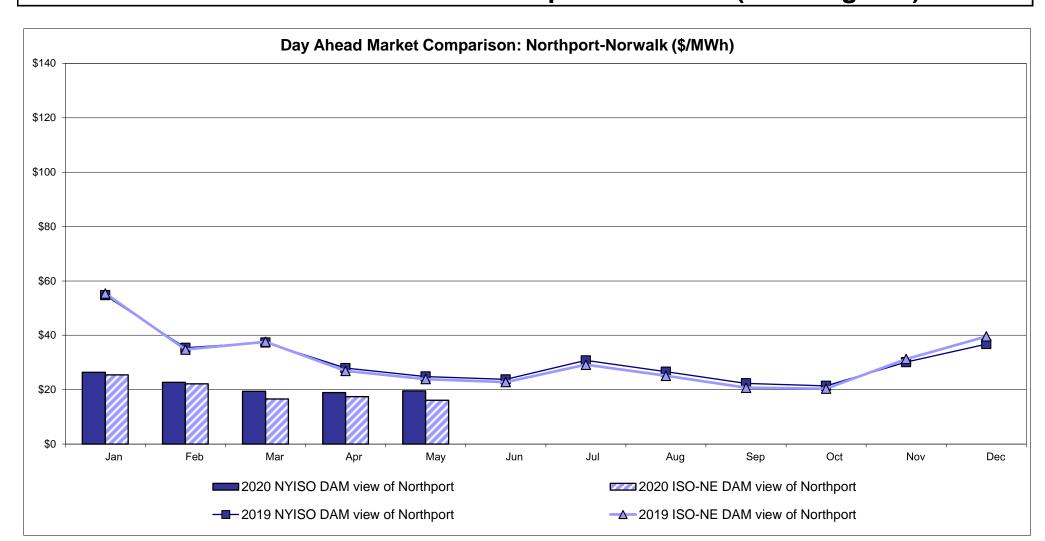


#### Note:

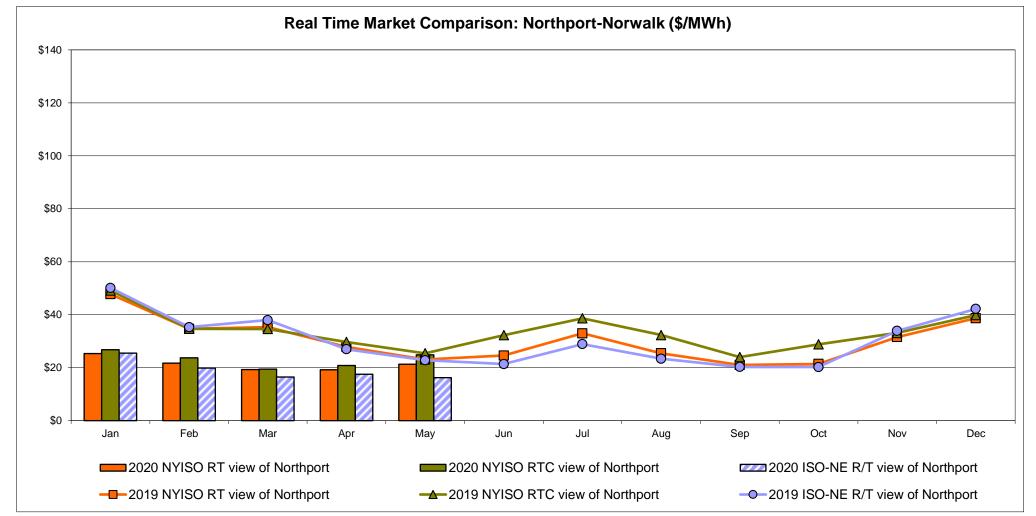
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)



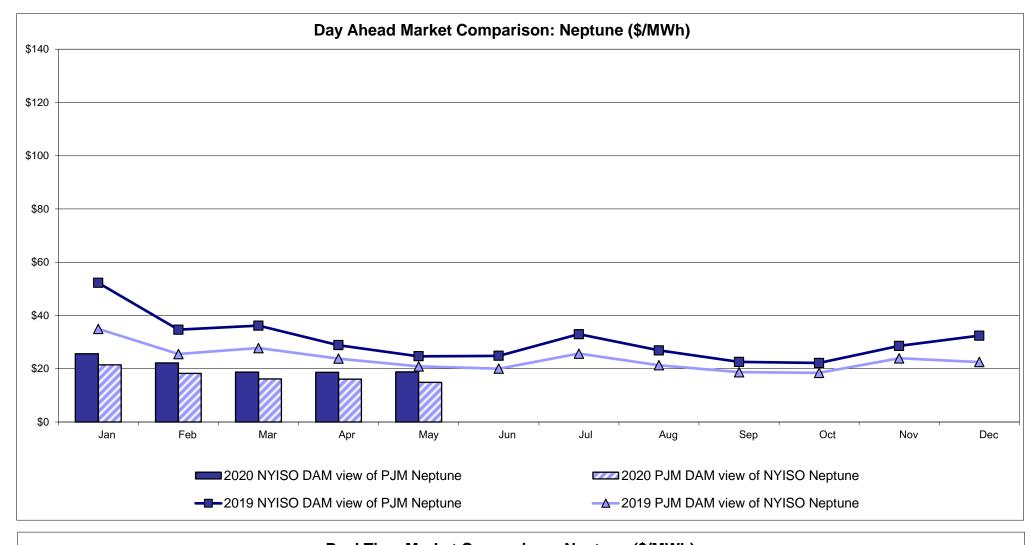
Note:

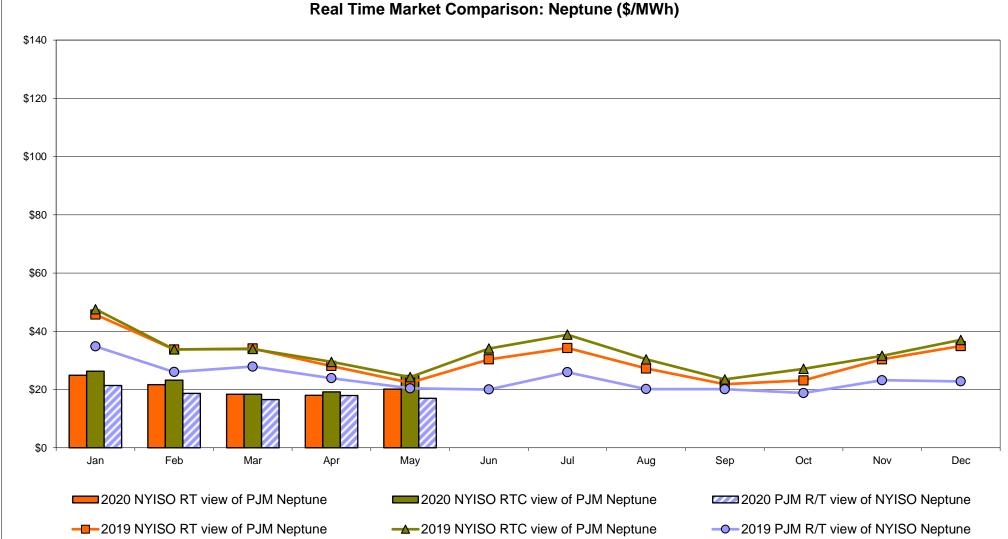
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

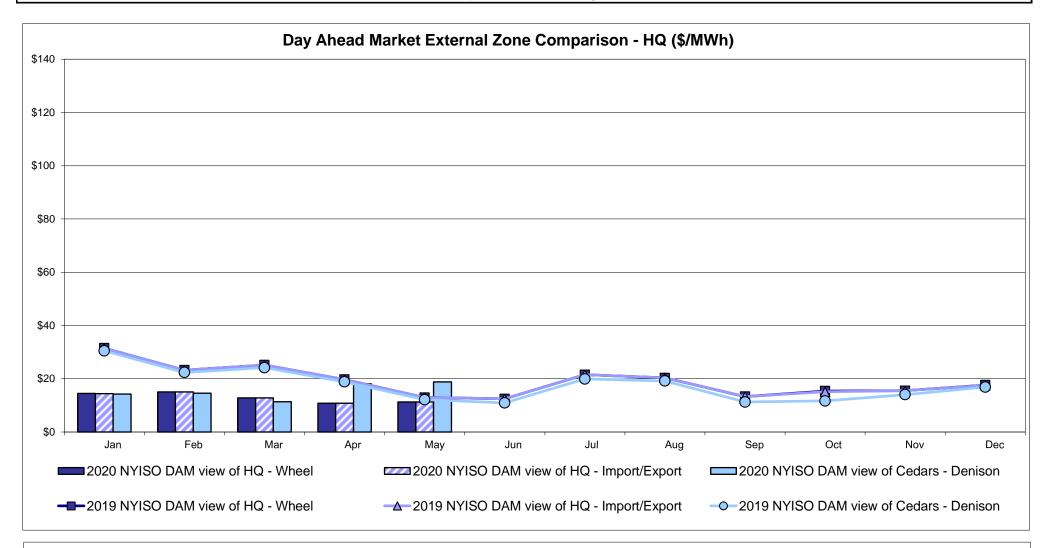
The DAM and R/T prices at the 1385 interface are used for NYISO.

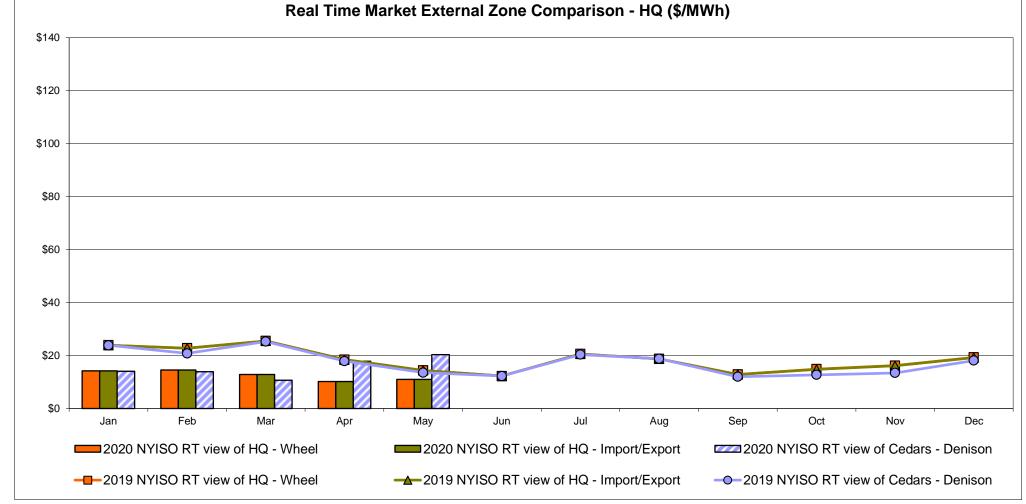
## **External Controllable Line: Neptune (PJM)**





## **External Comparison Hydro-Quebec**

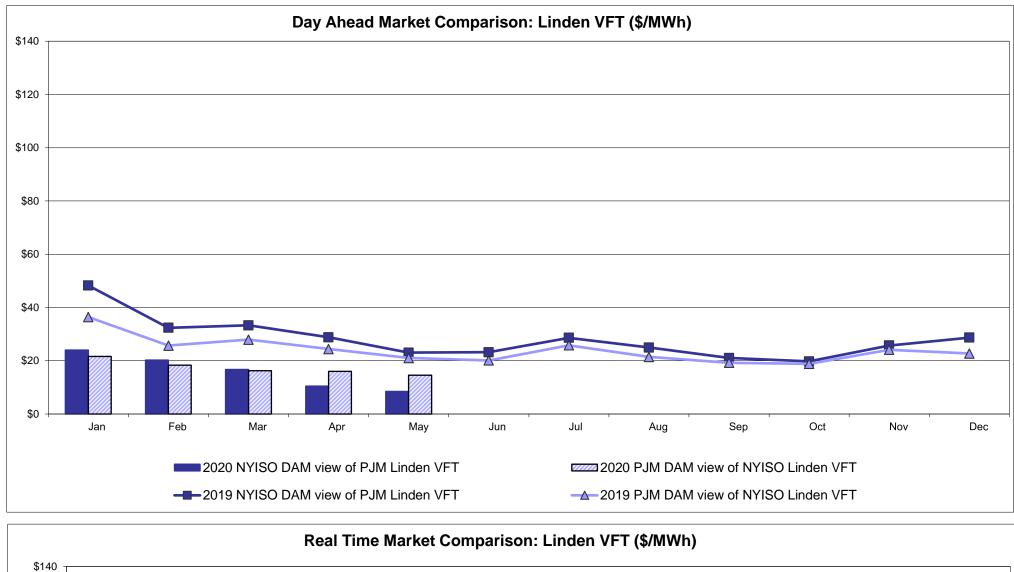


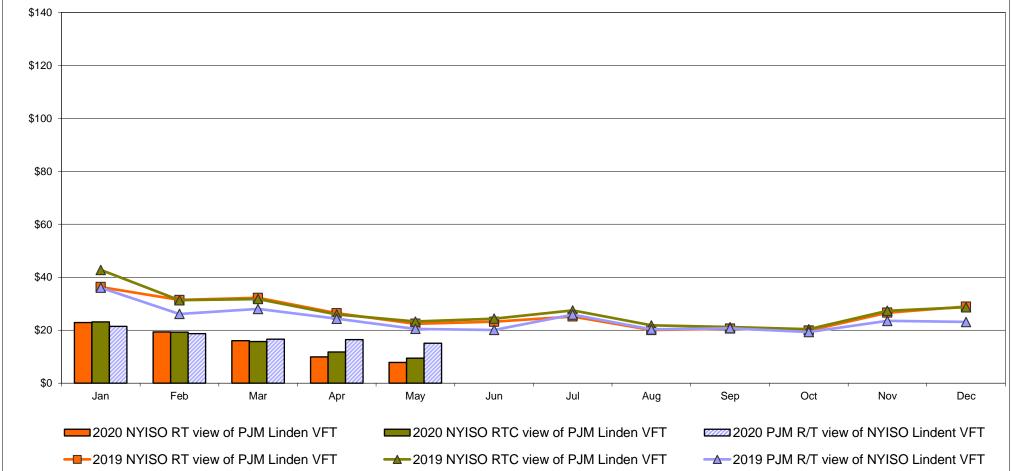


Note:

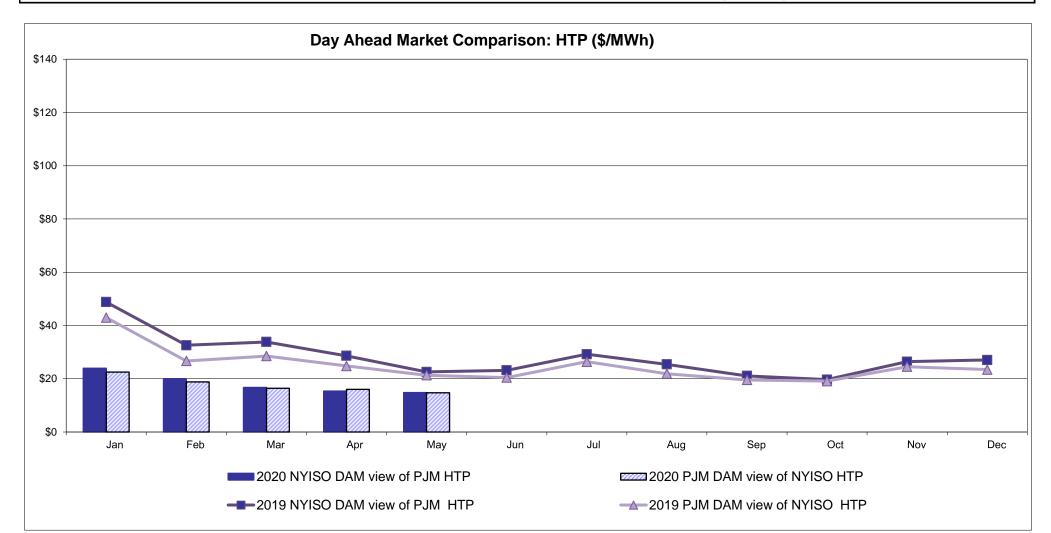
Hydro-Quebec Prices are unavailable.

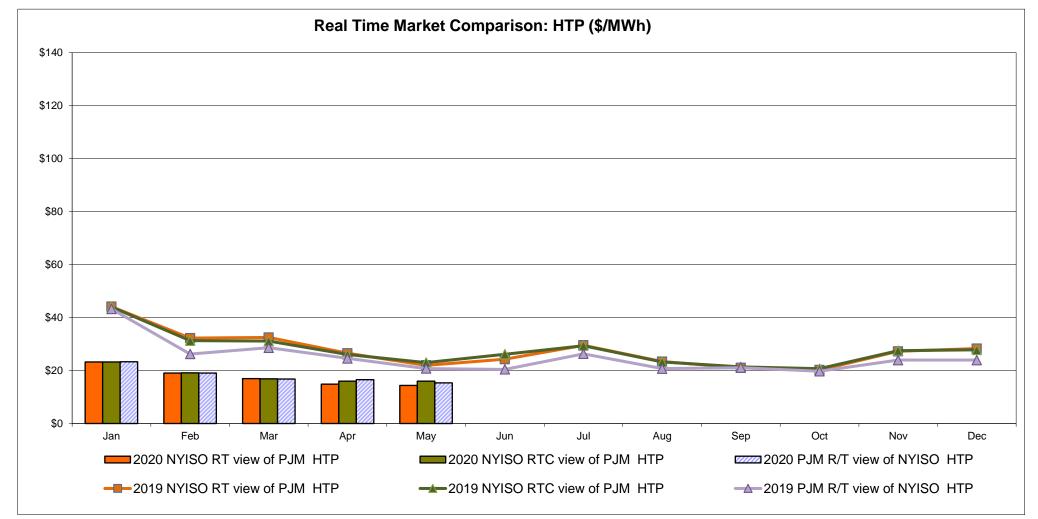
### External Controllable Line: Linden VFT (PJM)





### External Controllable Line: Hudson (PJM)



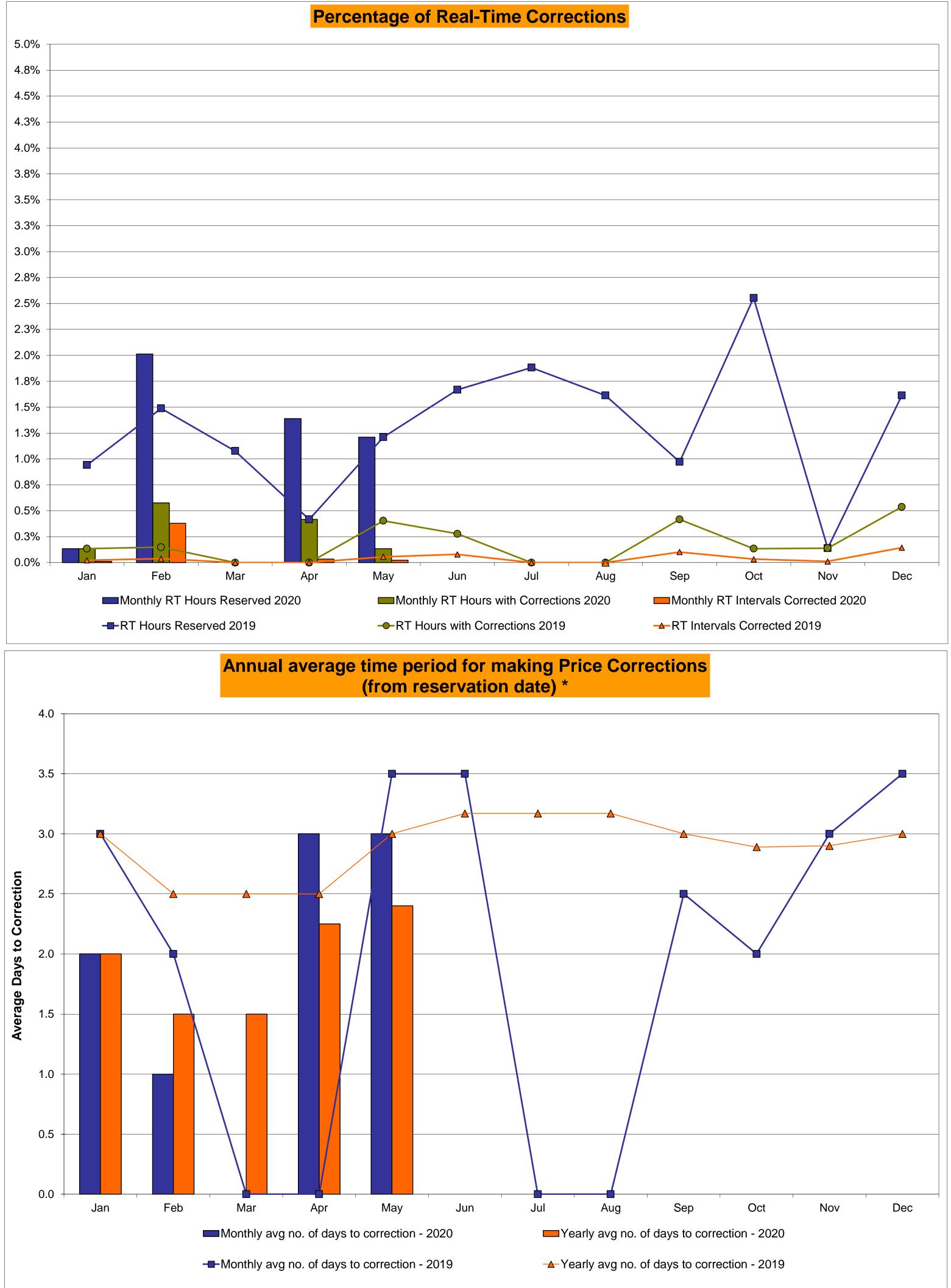


#### **NYISO Real Time Price Correction Statistics**

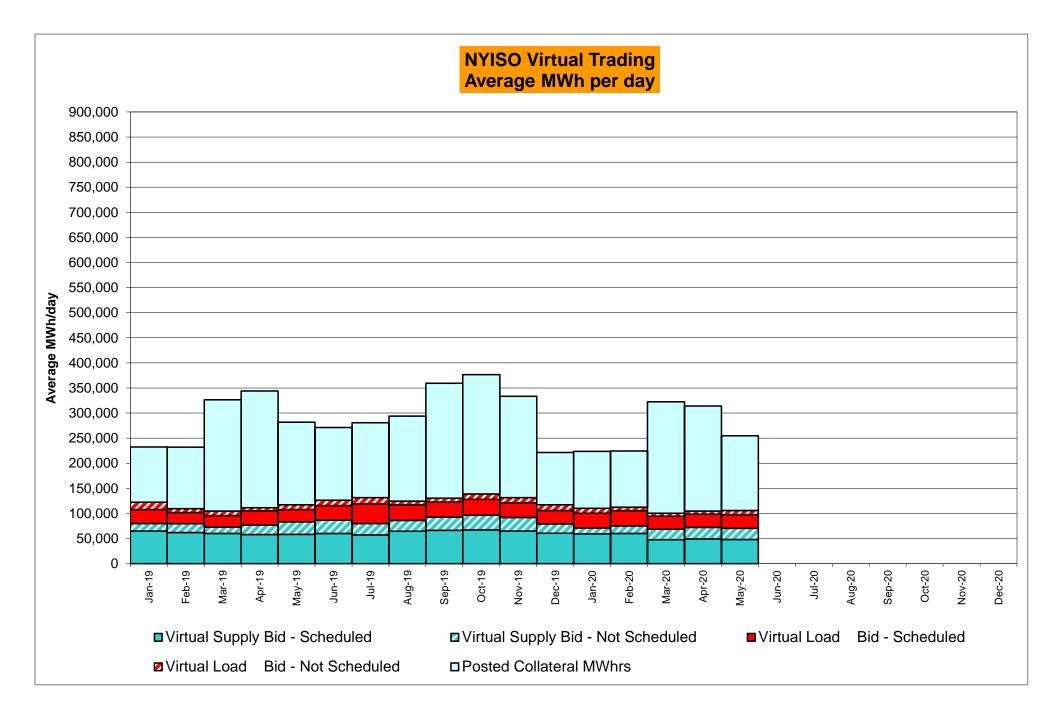
2020 Hour Corrections		January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	July	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Number of hours with corrections	in the month	1	4	0	3	1							
Number of hours	in the month	744	696	743	720	744							
% of hours with corrections	in the month	0.13%	0.57%	0.00%	0.42%	0.13%							
		0.1370	0.0770		0.4270	0.1370							
% of hours with corrections	year-to-date	0.13%	0.35%	0.23%	0.28%	0.25%							
Interval Corrections													
Number of intervals corrected	in the month	1	32	0	3	2							
Number of intervals	in the month	9,088	8,460	9,011	8,776	9,030							
% of intervals corrected	in the month	0.01%	0.38%	0.00%	0.03%	0.02%							
% of intervals corrected	year-to-date	0.01%	0.19%	0.12%	0.10%	0.09%							
Hours Reserved													
Number of hours reserved	in the month	1	14	0	10	9							
Number of hours	in the month	744	696	743	720	744							
% of hours reserved	in the month	0.13%	2.01%	0.00%	1.39%	1.21%							
% of hours reserved	year-to-date	0.13%	1.04%	0.69%	0.86%	0.93%							
Days to Correction *	your to duto	0.1070	1.0170	0.0070	0.0070	0.0070							
Avg. number of days to correction	in the month	2.00	1.00	0.00	3.00	3.00							
Avg. number of days to correction	year-to-date	2.00	1.50	1.50	2.25	2.40							
Days Without Corrections	Jea. 10 00.10												
Days without corrections	in the month	30	28	31	28	30							
Days without corrections	year-to-date	30	58	89	117	147							
· <b>,</b> · · · · · · · · · · · · · · · · · · ·	<b>,</b>												
<u>2019</u>		<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
2019 Hour Corrections		<u>January</u>	<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>
	in the month	<u>January</u> 1	1	<u>March</u> 0	<u>April</u> 0	<u>May</u> 3	<u>June</u> 2	<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>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	1 744 0.13%	1 672	0 743	0 720 0.00%	3 744	2 720	0 744 0.00%	0 744	3 720	1 744 0.13%	1 721	4 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	1 744	1 672 0.15%	0 743 0.00%	0 720	3 744 0.40%	2 720 0.28%	0 744	0 744 0.00%	3 720 0.42%	1 744	1 721 0.14%	4 744 0.54%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month 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%	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% <u>0.14%</u> 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% 0.15% 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% 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> 2 9,071 0.02%	1 672 0.15% <u>0.14%</u> 3 8,131 0.04%	0 743 0.00% 0.09% 0 9,008 0.00%	0 720 0.00% 0.07% 0 8,750 0.00%	3 744 0.40% 0.14% 5 9,033 0.06%	2 720 0.28% 0.16% 7 8,863 0.08%	0 744 0.00% 0.14% 0 9,243 0.00%	0 744 0.00% 0.12% 0 9,048 0.00%	3 720 0.42% 0.15% 9 8,820 0.10%	1 744 0.13% <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	1 744 0.13% <u>0.13%</u> 2 9,071	1 672 0.15% <u>0.14%</u> 3 8,131	0 743 0.00% 0.09% 0 9,008	0 720 0.00% 0.07% 0 8,750	3 744 0.40% 0.14% 5 9,033	2 720 0.28% 0.16% 7 8,863	0 744 0.00% 0.14% 0 9,243	0 744 0.00% <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 Corrections         Number of hours with corrections         Number of hours         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         % of intervals corrected         % of intervals corrected         % 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% <u>0.13%</u> 2 9,071 0.02%	1 672 0.15% <u>0.14%</u> 3 8,131 0.04% 0.03%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03%	0 744 0.00% <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	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	1 744 0.13% 0.13% 2 9,071 0.02% 0.02% 7	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% 0.14% 5 9,033 0.06% 0.02% 9	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12	0 744 0.00% 0.14% 0 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 correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals% 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 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% <u>0.15%</u> 1 8,788 0.01% <u>0.03%</u> 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% 0.15% 3 9,087 0.03% 0.03% 19 744 2.55%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14%	4 744 0.54% <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 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	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% <u>0.15%</u> 1 8,788 0.01% <u>0.03%</u> 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 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 year-to-date	1 744 0.13% 0.13% 0.13% 2 9,071 0.02% 0.02% 7 744 0.94% 0.94%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49% 1.20%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08% 1.16%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42% 0.97%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21% 1.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67% 1.13%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88% 1.24%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61% 1.29%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97% 1.25%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 19 744 2.55% 1.38%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14% 1.27%	4 744 0.54% <u>0.18%</u> 13 9,021 0.14% <u>0.04%</u> 12 744 1.61% <u>1.30%</u>
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 nours 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% 2 9,071 0.02% 0.02% 7 744 0.94% 0.94% 0.94% 3.00</td> <td>1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49% 1.20% 2.00</td> <td>0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08% 1.16% 0.00</td> <td>0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42% 0.97% 0.00</td> <td>3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21% 1.02% 3.50</td> <td>2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67% 1.13% 3.50</td> <td>0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88% 1.24% 0.00</td> <td>0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61% 1.29% 0.00</td> <td>3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97% 1.25% 2.50</td> <td>1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 0.03% 19 744 2.55% 1.38% 2.00</td> <td>1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14% 1.27% 3.00</td> <td>4 744 0.54% 0.18% 13 9,021 0.14% 0.04% 12 744 1.61% 1.30% 3.50</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% 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% 0.18% 13 9,021 0.14% 0.04% 12 744 1.61% 1.30% 3.50
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 reservedNumber of hours reserved% of number of days to correctionAvg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	1 744 0.13% 0.13% 0.13% 2 9,071 0.02% 0.02% 7 744 0.94% 0.94%	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49% 1.20%	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08% 1.16%	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42% 0.97%	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21% 1.02%	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67% 1.13%	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88% 1.24%	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61% 1.29%	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97% 1.25%	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 19 744 2.55% 1.38%	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14% 1.27%	4 744 0.54% <u>0.18%</u> 13 9,021 0.14% <u>0.04%</u> 12 744 1.61% <u>1.30%</u>
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsMumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reserved% of number of days to correction avg. number of days to correctionAvg. number of days to correctionDays Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date in the month year-to-date	1 744 0.13% 0.13% 0.13% 2 9,071 0.02% 0.02% 0.02% 7 744 0.94% 0.94% 0.94% 0.94% 3.00 3.00	1 672 0.15% 0.14% 3 8,131 0.04% 0.03% 10 672 1.49% 1.20% 2.00 2.50	0 743 0.00% 0.09% 0 9,008 0.00% 0.02% 8 743 1.08% 1.16% 0.00 2.50	0 720 0.00% 0.07% 0 8,750 0.00% 0.01% 3 720 0.42% 0.97% 0.00 2.50	3 744 0.40% 0.14% 5 9,033 0.06% 0.02% 9 744 1.21% 1.02% 3.50 3.00	2 720 0.28% 0.16% 7 8,863 0.08% 0.03% 12 720 1.67% 1.13% 3.50 3.17	0 744 0.00% 0.14% 0 9,243 0.00% 0.03% 14 744 1.88% 1.24% 0.00 3.17	0 744 0.00% 0.12% 0 9,048 0.00% 0.02% 12 744 1.61% 1.29% 0.00 3.17	3 720 0.42% 0.15% 9 8,820 0.10% 0.03% 7 720 0.97% 1.25% 2.50 3.00	1 744 0.13% 0.15% 3 9,087 0.03% 0.03% 0.03% 19 744 2.55% 1.38% 2.00 2.89	1 721 0.14% 0.15% 1 8,788 0.01% 0.03% 1 721 0.14% 1.27% 3.00 2.90	4 744 0.54% 0.18% 13 9,021 0.14% 0.04% 12 744 1.61% 1.30% 3.50 3.00
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 reservedNumber of hours reserved% of number of days to correctionAvg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	1 744 0.13% 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% 0.18% 13 9,021 0.14% 0.04% 12 744 1.61% 1.30% 3.50

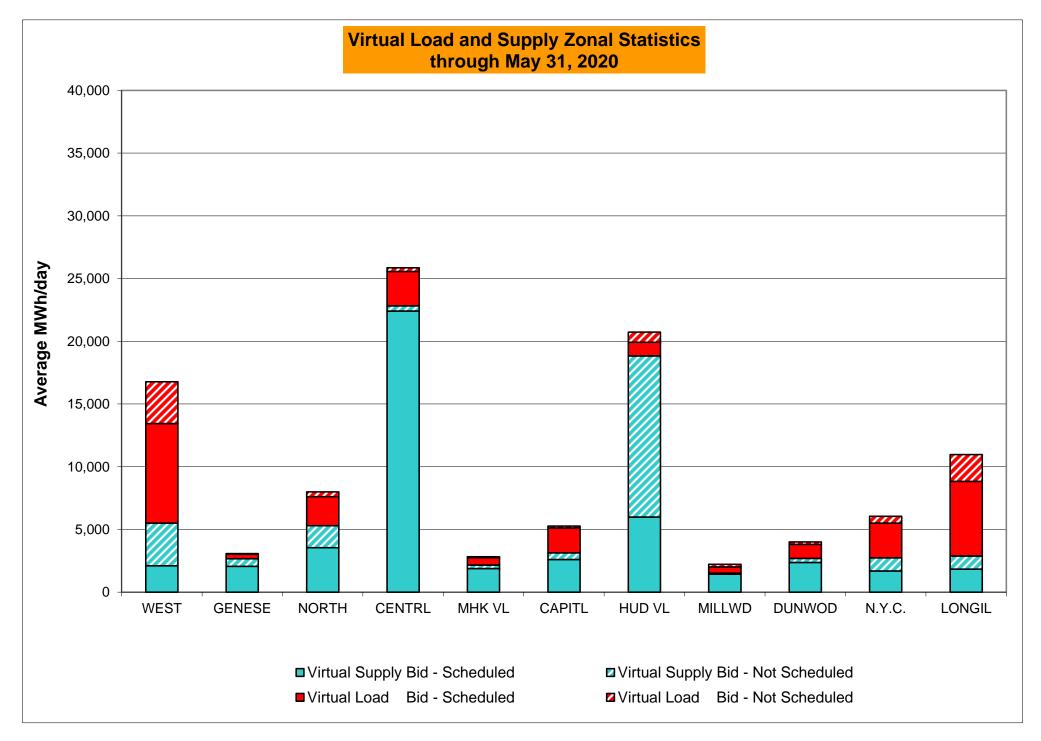
\*Calendar days from reservation date; for June 2018 forward, business days from market date

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



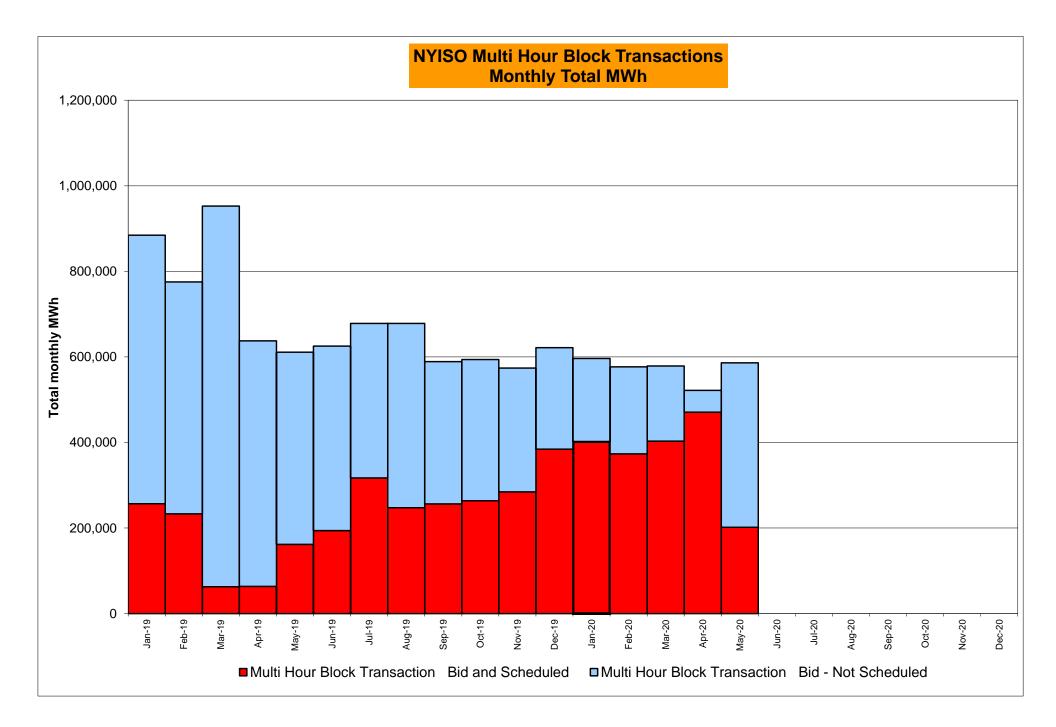
\*Calendar days from reservation date; for June 2018 forward, business days from market date

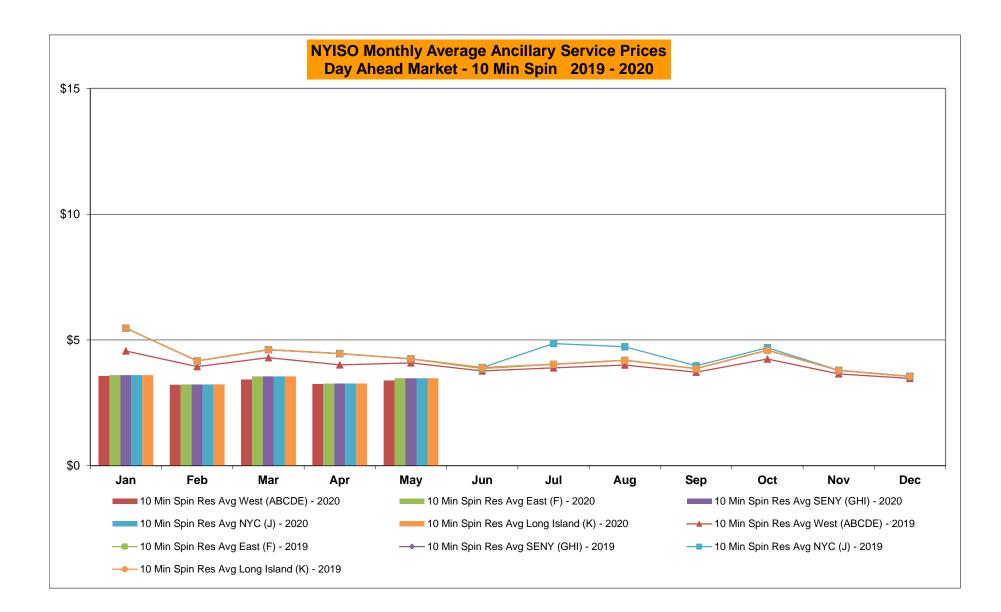


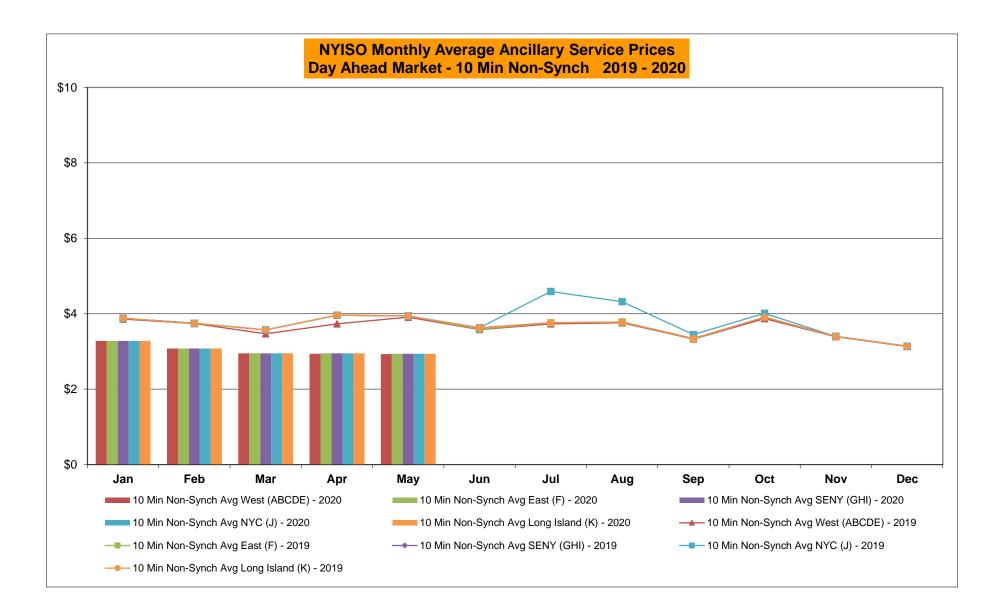


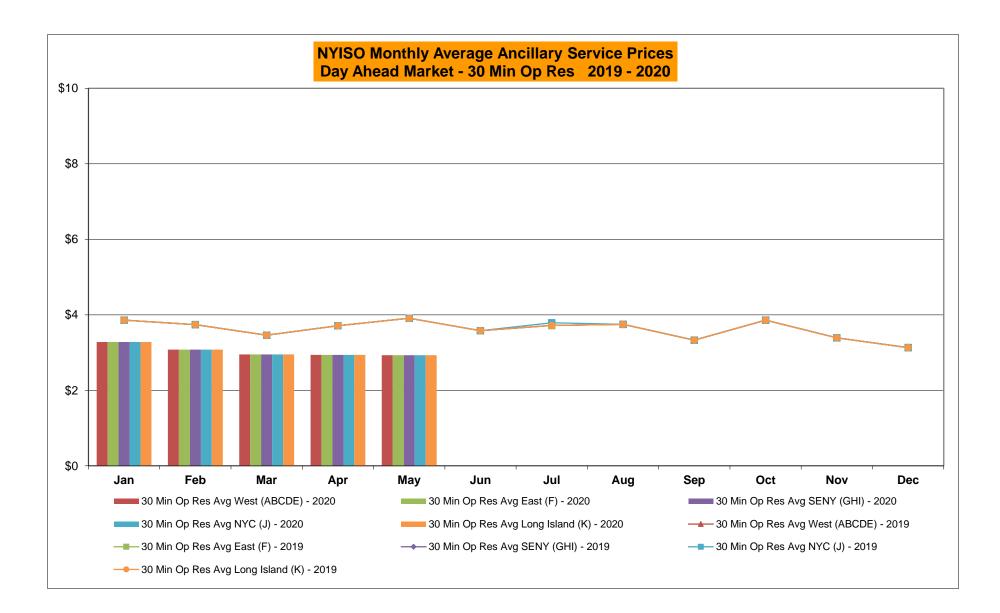
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2020

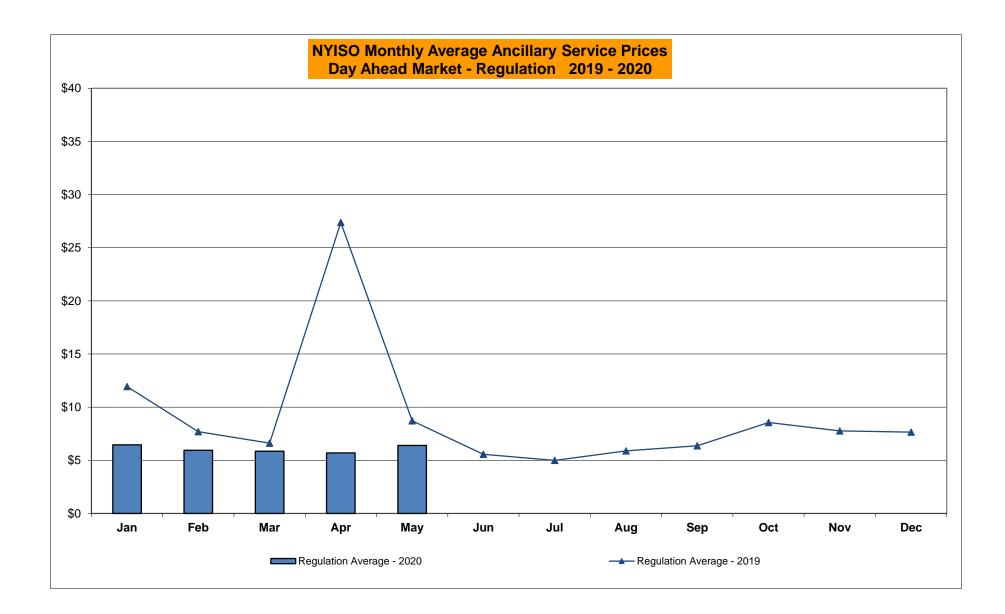
		Virtual L	.oad Bid	Virtual Su	upply Bid			Virtual L	.oad Bid	Virtual Su	upply Bid			Virtual L	oad Bid	Virtual Su	upply Bid
			Not		Not				Not		Not				Not		Not
Zone			Scheduled	Scheduled	Scheduled	Zone	Date			Scheduled	Scheduled	Zone	Date		Scheduled		Scheduled
WEST	Jan-20	7,809		1,765	984	MHK VL	Jan-20			2,155		DUNWOD	Jan-20		241	3,191	
	Feb-20	8,213			947		Feb-20			2,339			Feb-20		298	3,782	
	Mar-20	9,155			1,236		Mar-20		97	2,455			Mar-20		109	3,143	
	Apr-20	10,056			1,018		Apr-20			2,599			Apr-20		423	2,336	
	May-20 Jun-20	7,943	3,322	2,105	3,397		May-20 Jun-20		70	1,878	287		May-20 Jun-20		196	2,373	323
	Jul-20						Jul-20						Jul-20				
	Aug-20						Aug-20						Aug-20				
	Sep-20						Sep-20						Sep-20				
	Oct-20						Oct-20						Oct-20				
	Nov-20						Nov-20						Nov-20				
	Dec-20						Dec-20						Dec-20				
GENESE	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
OLNEOL	Feb-20	534	79		640		Feb-20			3,149			Feb-20		1,841	1,316	
	Mar-20	397	46		550		Mar-20			3,181			Mar-20		1,126	1,676	
	Apr-20	422		,	622		Apr-20	,		3,335			Apr-20		546	1,864	
	May-20	356			618		May-20			2,597			May-20		548	1,692	
	Jun-20						Jun-20						Jun-20				
	Jul-20						Jul-20						Jul-20				
	Aug-20						Aug-20						Aug-20				
	Sep-20						Sep-20						Sep-20				
	Oct-20						Oct-20						Oct-20				
	Nov-20						Nov-20						Nov-20				
	Dec-20						Dec-20						Dec-20				
NORTH	Jan-20	811	206		1,765	HUD VL	Jan-20		1,274	7,573		LONGIL	Jan-20		2,824	2,246	
	Feb-20	402			2,014		Feb-20			8,517			Feb-20	,	1,683	1,678	
	Mar-20	335		,	2,315		Mar-20			6,811	,		Mar-20		1,429	1,602	,
	Apr-20	321	210 381		2,057		Apr-20		813 806	5,955			Apr-20		1,036	1,620 1,844	
	May-20 Jun-20	2,305	381	3,547	1,757		May-20 Jun-20		806	5,998	12,839		May-20 Jun-20		2,125	1,844	1,045
	Jul-20						Jul-20						Jul-20				
	Aug-20						Aug-20						Aug-20				
	Sep-20						Sep-20						Sep-20				
	Oct-20						Oct-20						Oct-20				
	Nov-20						Nov-20						Nov-20				
	Dec-20						Dec-20						Dec-20				
CENTRL	Jan-20	3,050	214	28,503	541	MILLWD	Jan-20	270	68	1,646	213	NYISO	Jan-20	29,361	9,580	59,340	11,849
	Feb-20	2,567	118		487		Feb-20		68	1,811			Feb-20		6,838	60,334	
	Mar-20	2,340			481		Mar-20			1,844			Mar-20		6,087	47,704	
	Apr-20	2,568			491		Apr-20			1,510			Apr-20	,	6,200	49,344	
	May-20	2,736			414		May-20			1,442			May-20		8,140	47,941	
	Jun-20						Jun-20						Jun-20				
	Jul-20						Jul-20						Jul-20				
	Aug-20						Aug-20						Aug-20				
	Sep-20						Sep-20						Sep-20				
	Oct-20						Oct-20						Oct-20				
	Nov-20						Nov-20 Dec-20						Nov-20 Dec-20				

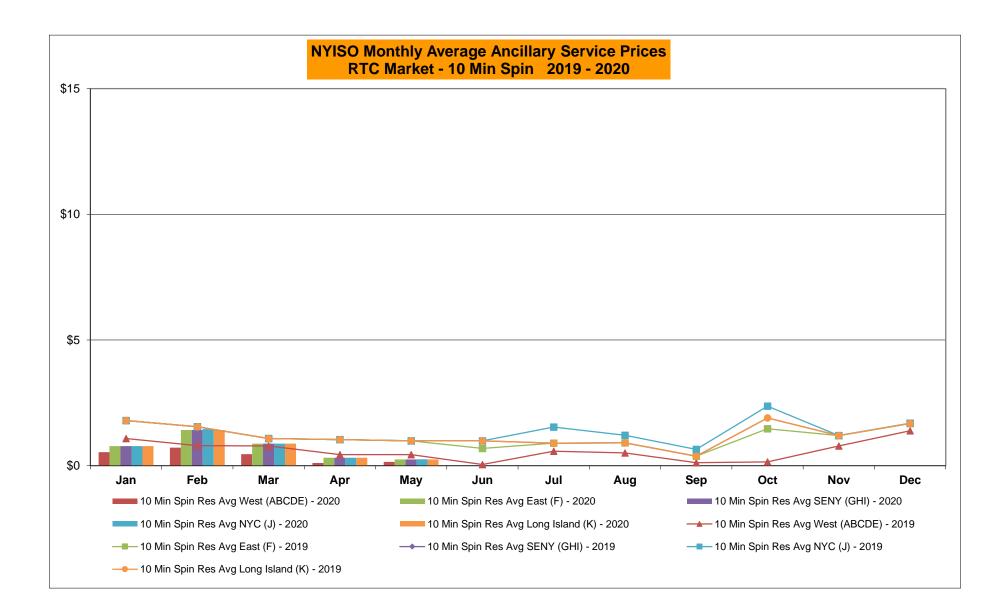


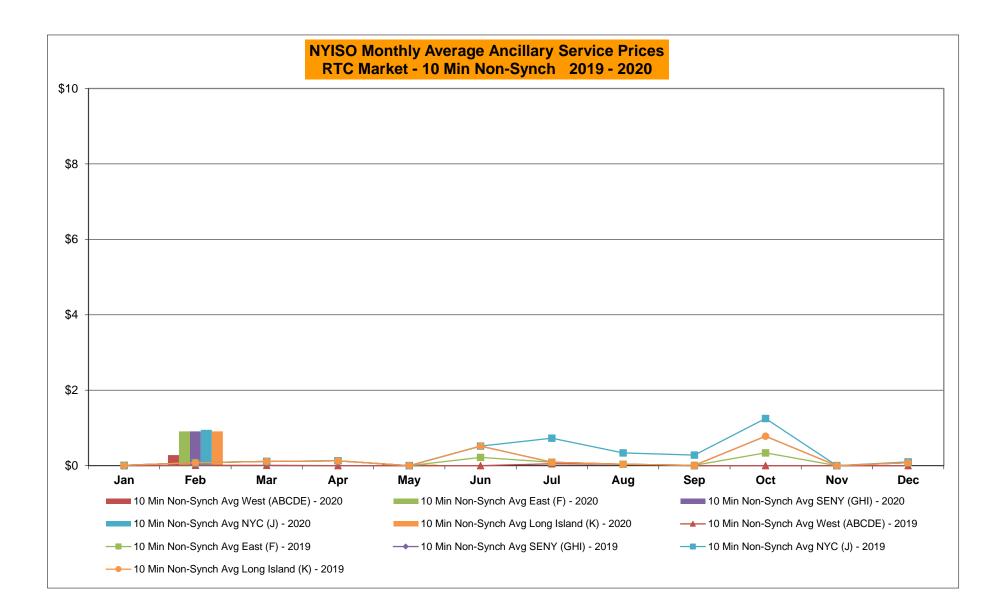


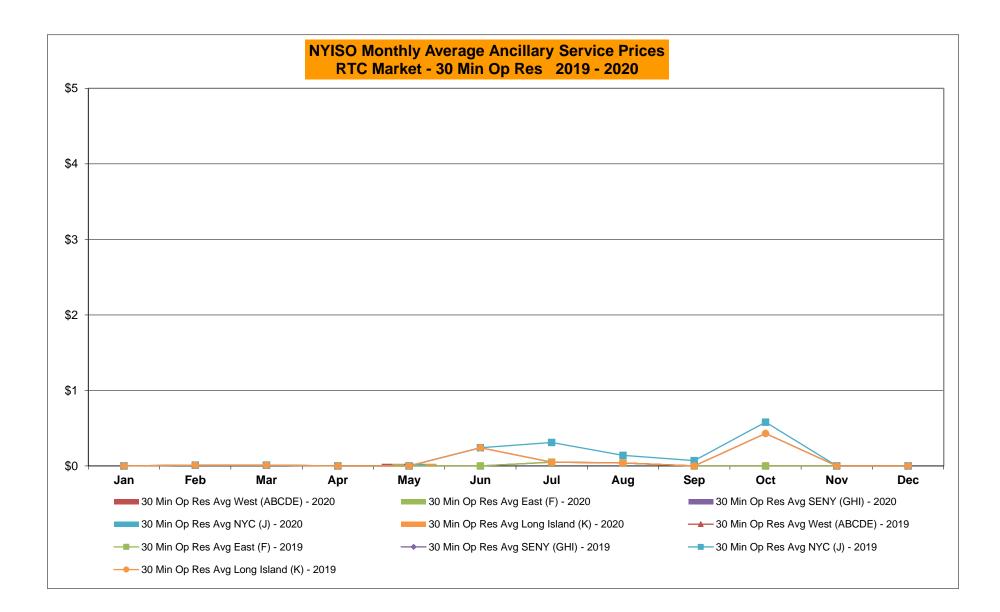


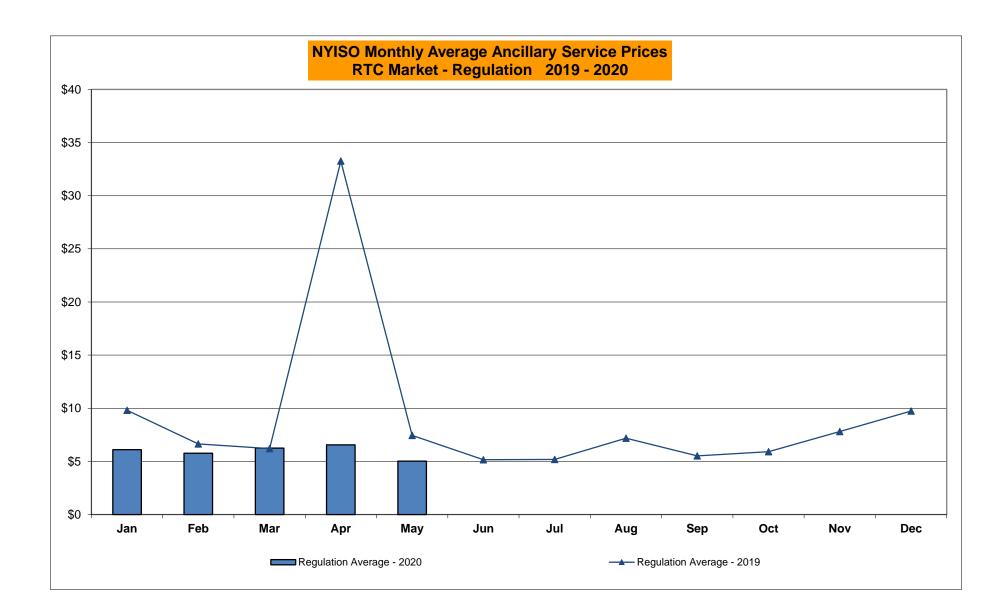


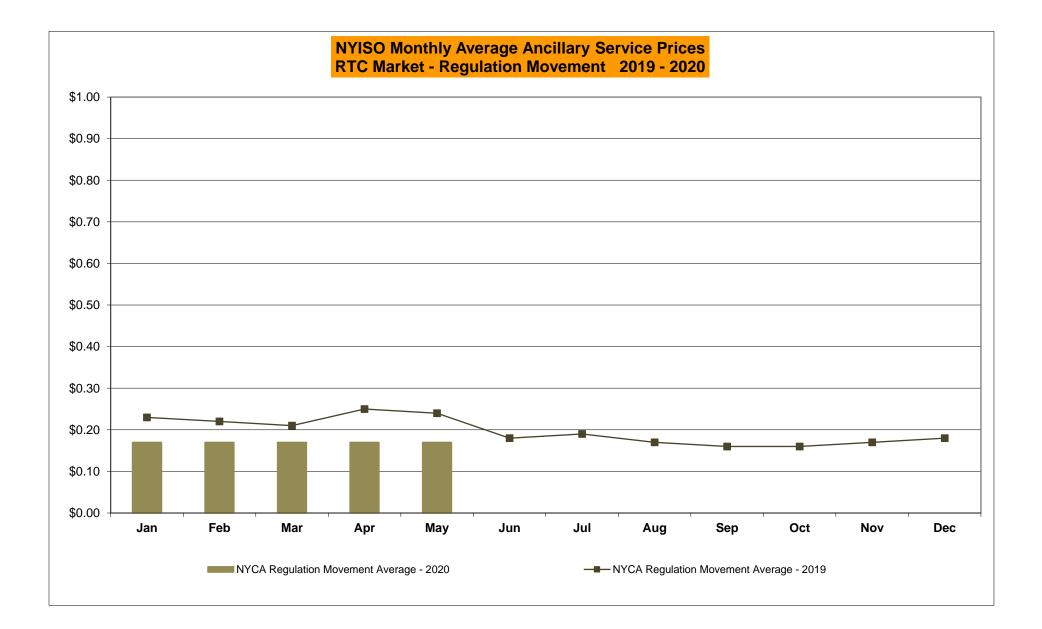


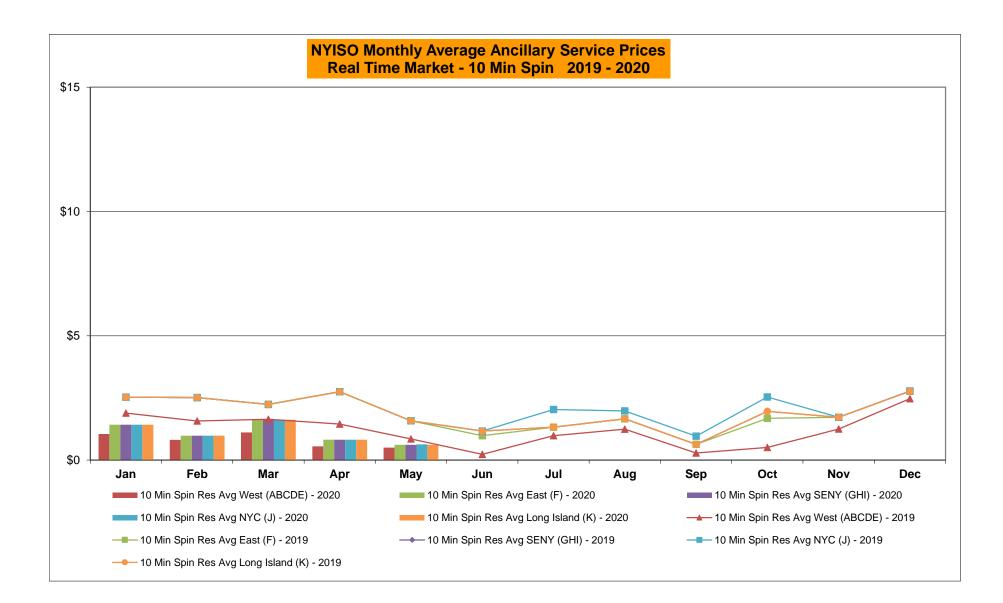


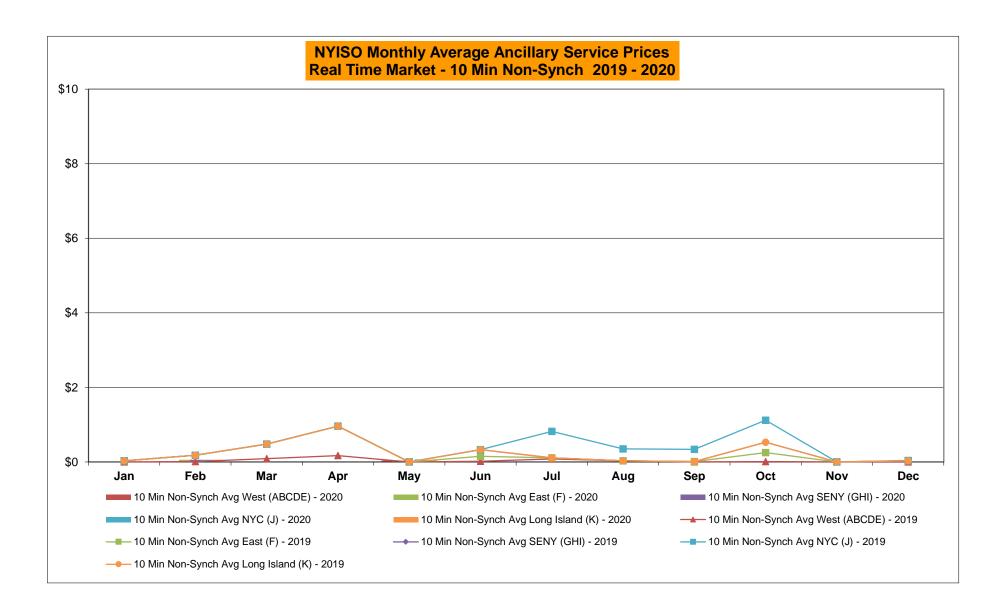


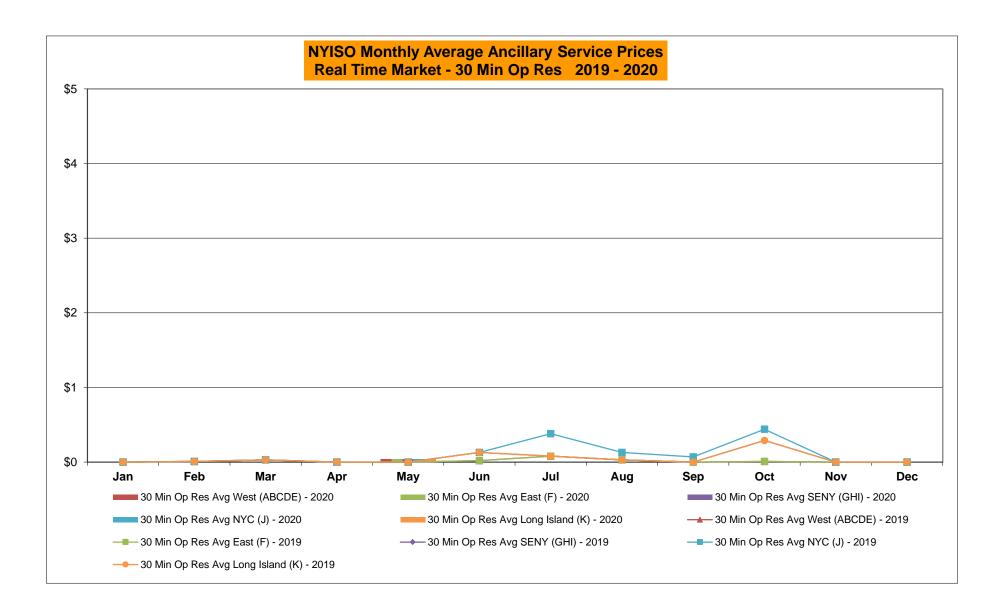


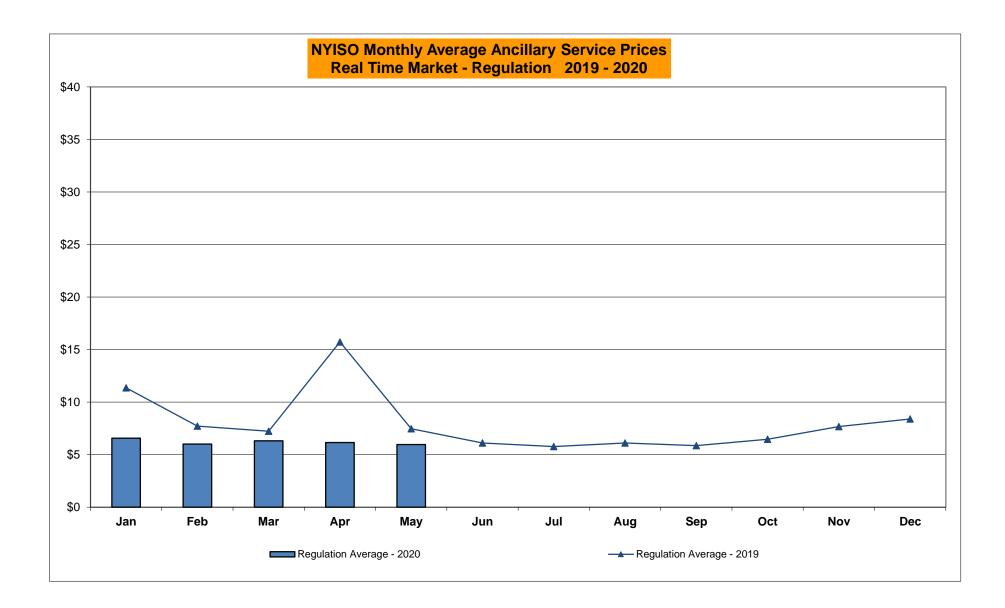


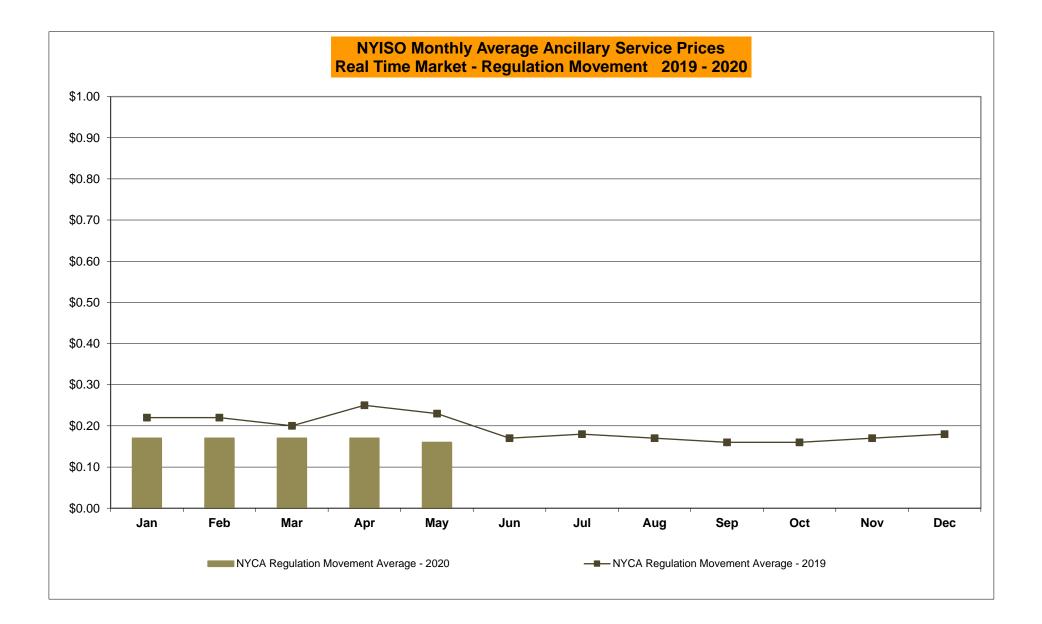












	IN LIGO Mark	els Ancii	iary Serv	1683 310		Unweign	leu Fric		<u>vn) - Dai</u>	
<u>2020</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>(</u>
Day Ahead Market										
10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27	3.48					
10 Min Spin NYC (J)	3.60	3.23	3.55	3.27	3.48					
10 Min Spin SENY (GHI)	3.60	3.23	3.55	3.27	3.48					
10 Min Spin East (F)	3.60	3.23	3.55	3.27	3.48					
10 Min Spin West (ABCDE)	3.57	3.22	3.43	3.25	3.39					
10 Min Non Synch Long Island (K)	3.28	3.08	2.95	2.95	2.94					
10 Min Non Synch NYC (J)	3.28	3.08	2.95	2.95	2.94					
10 Min Non Synch SENY (GHI)	3.28	3.08	2.95	2.95	2.94					
10 Min Non Synch East (F)	3.28	3.08	2.95	2.95	2.94					
10 Min Non Synch West (ABCDE)	3.28	3.08	2.95	2.94	2.93					
30 Min Long Island (K)	3.28	3.08	2.95	2.94	2.93					
30 Min NYC (J)	3.28	3.08	2.95	2.94	2.93					
30 Min SENY (GHI)	3.28	3.08	2.95	2.94	2.93					
30 Min East (F)	3.28	3.08	2.95	2.94	2.93					
30 Min West (ABCDE)	3.28	3.08	2.95	2.94	2.93					
Regulation	6.46	5.94	5.86	5.70	6.40					
2019	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	C
Day Ahead Market	<u>oundary</u>	<u>r obraary</u>	<u>indioni</u>	<u>/ p/m</u>	may		<u>o aiy</u>	<u>/////////////////////////////////////</u>		-
10 Min Spin Long Island (K)	5.47	5.47	4.61	4.46	4.25	3.90	4.03	4.19	3.86	
10 Min Spin NYC (J)	5.47	5.47	4.61	4.46	4.25	3.90	4.86	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	3.63	3.76	3.78	3.34	
10 Min Non Synch NYC (J)	3.88	3.88	3.57	3.96	3.94	3.63	4.59	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	3.58	3.72	3.75	3.33	
30 Min NYC (J)	3.86	3.86	3.46	3.71	3.91	3.58	3.79	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	
č	-							-	-	

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

<u>October</u>

November

<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

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

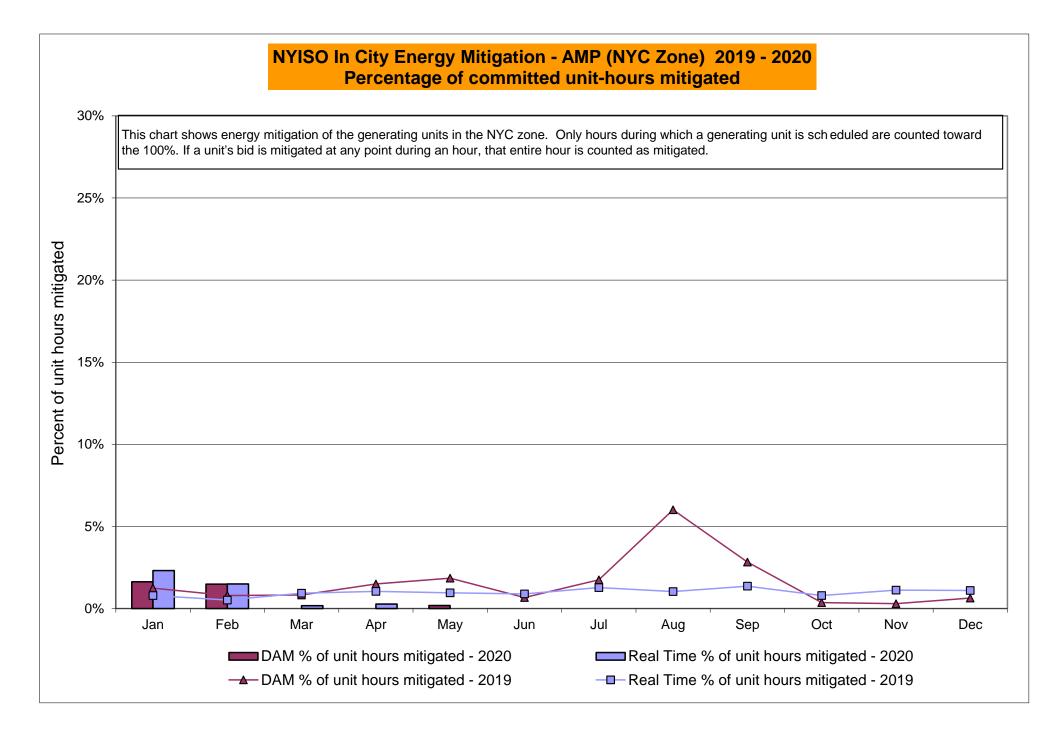
2020	January	February	March	<u>April</u>	May	<u>June</u>	July	August	September	<u>0</u>
Real Time Market		<u> </u>		<u></u>	<u></u>	<u></u>	<u>••••</u>	<u>,</u>		_
10 Min Spin Long Island (K)	1.42	0.98	1.62	0.82	0.61					
10 Min Spin NYC (J)	1.42	0.98	1.62	0.82	0.63					
10 Min Spin SENY (GHI)	1.42	0.98	1.62	0.82	0.61					
10 Min Spin East (F)	1.42	0.98	1.62	0.82	0.61					
10 Min Spin West (ÁBCDE)	1.05	0.81	1.11	0.55	0.50					
10 Min Non Synch Long Island (K)	0.00	0.06	0.00	0.00	0.04					
10 Min Non Synch NYC (J)	0.00	0.06	0.00	0.00	0.07					
10 Min Non Synch SENY (GHI)	0.00	0.06	0.00	0.00	0.04					
10 Min Non Synch East (F)	0.00	0.06	0.00	0.00	0.04					
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.00	0.04					
30 Min Long Island (K)	0.00	0.00	0.00	0.00	0.04					
30 Min NYC (J)	0.00	0.00	0.00	0.00	0.04					
30 Min SENY (GHI)	0.00	0.00	0.00	0.00	0.04					
30 Min East (F)	0.00	0.00	0.00	0.00	0.04					
30 Min West (ABCDE)	0.00	0.00	0.00	0.00	0.04					
Regulation	6.57	6.00	6.32	6.16	5.96					
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.16					
<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>C</u>
Real Time Market										
10 Min Spin Long Island (K)	2.53	2.53	2.24	2.75	1.58	1.17	1.32	1.66	0.63	
10 Min Spin NYC (J)	2.53	2.53	2.24	2.75	1.58	1.17	2.03	1.98	0.96	
10 Min Spin SENY (GHI)	2.53	2.51	2.24	2.75	1.58	1.17	1.32	1.66	0.63	
10 Min Spin East (F)	2.53	2.51	2.24	2.75	1.58	0.98	1.32	1.66	0.63	
10 Min Spin West (ABCDE)	1.89	1.57	1.64	1.45	0.85	0.23	0.98	1.24	0.28	
10 Min Non Synch Long Island (K)	0.03	0.03	0.48	0.96	0.00	0.33	0.11	0.03	0.01	
10 Min Non Synch NYC (J)	0.03	0.03	0.48	0.96	0.00	0.33	0.82	0.35	0.34	
10 Min Non Synch SENY (GHI)	0.03	0.18	0.48	0.96	0.00	0.33	0.11	0.03	0.01	
10 Min Non Synch East (F)	0.03	0.18	0.48	0.96	0.00	0.15	0.11	0.03	0.01	
10 Min Non Synch West (ABCDE)	0.00	0.01	0.09	0.17	0.00	0.02	0.08	0.03	0.00	
30 Min Long Island (K)	0.00	0.00	0.03	0.00	0.00	0.13	0.08	0.03	0.00	
30 Min NYC (J)	0.00	0.00	0.03	0.00	0.00	0.13	0.38	0.13	0.07	
30 Min SENY (GHI)	0.00	0.01	0.03	0.00	0.00	0.13	0.08	0.03	0.00	
30 Min East (F)	0.00	0.01	0.03	0.00	0.00	0.02	0.08	0.03	0.00	
30 Min West (ABCDE)	0.00	0.01	0.03	0.00	0.00	0.02	0.08	0.03	0.00	
Deck Lation	44.00	7 7 2	7 00	15.73	7 47	6.11	5.77	6.11	5.86	
Regulation NYCA Regulation Movement	11.36 0.22	7.72 0.22	7.23 0.20	0.25	7.47 0.23	0.17	0.18	0.17	0.16	

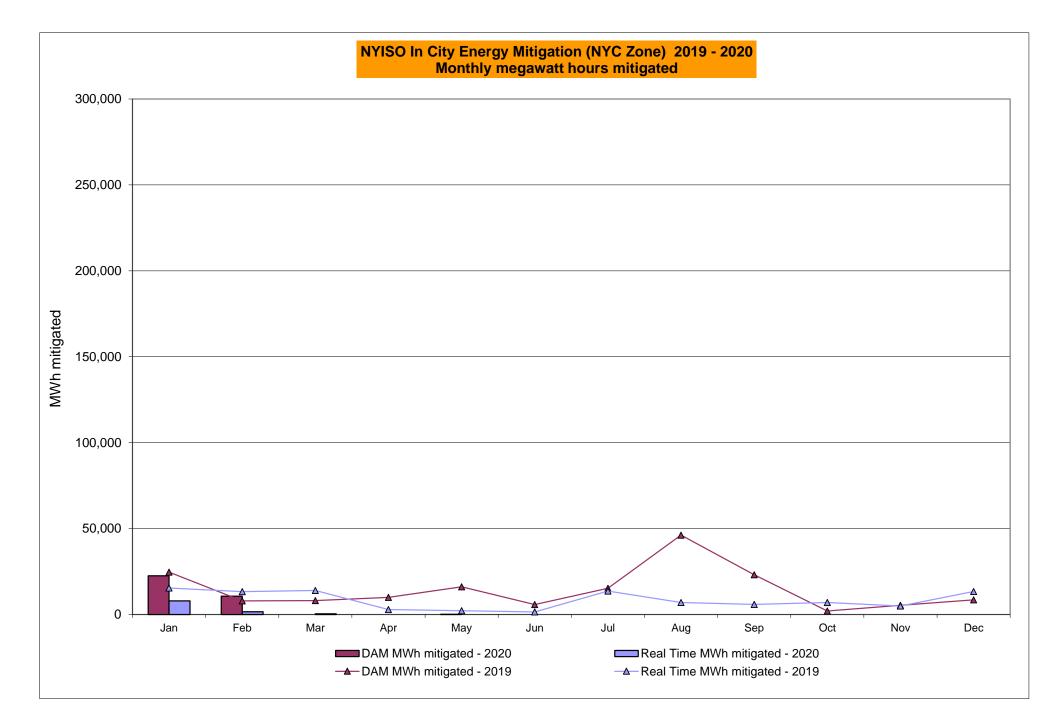
<u>October</u>

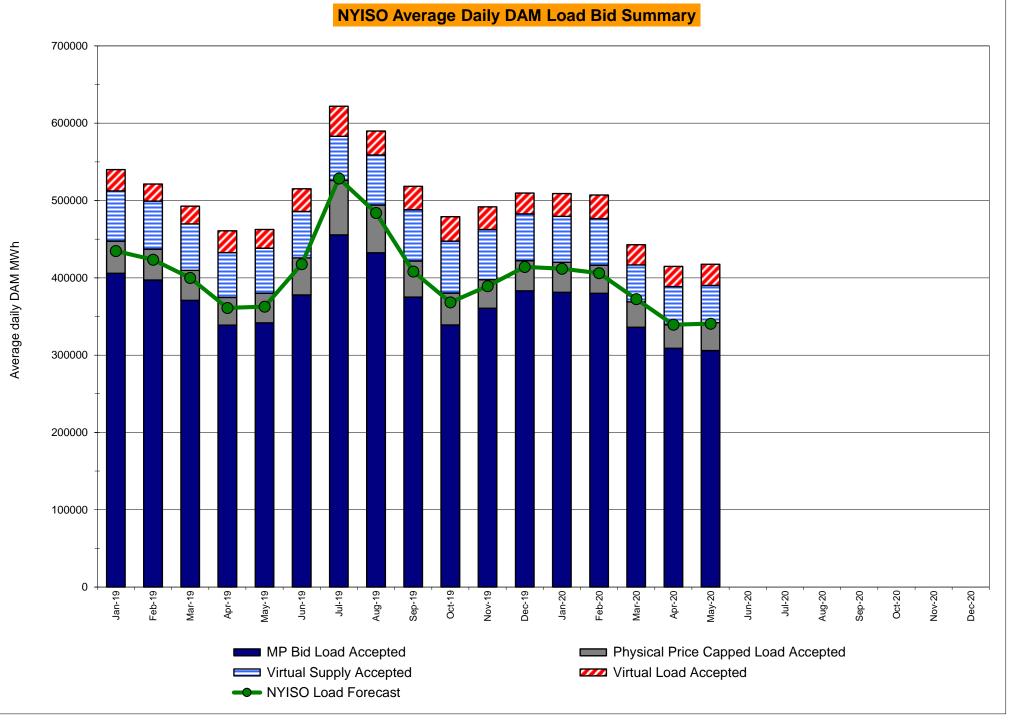
<u>November</u>

<u>December</u>

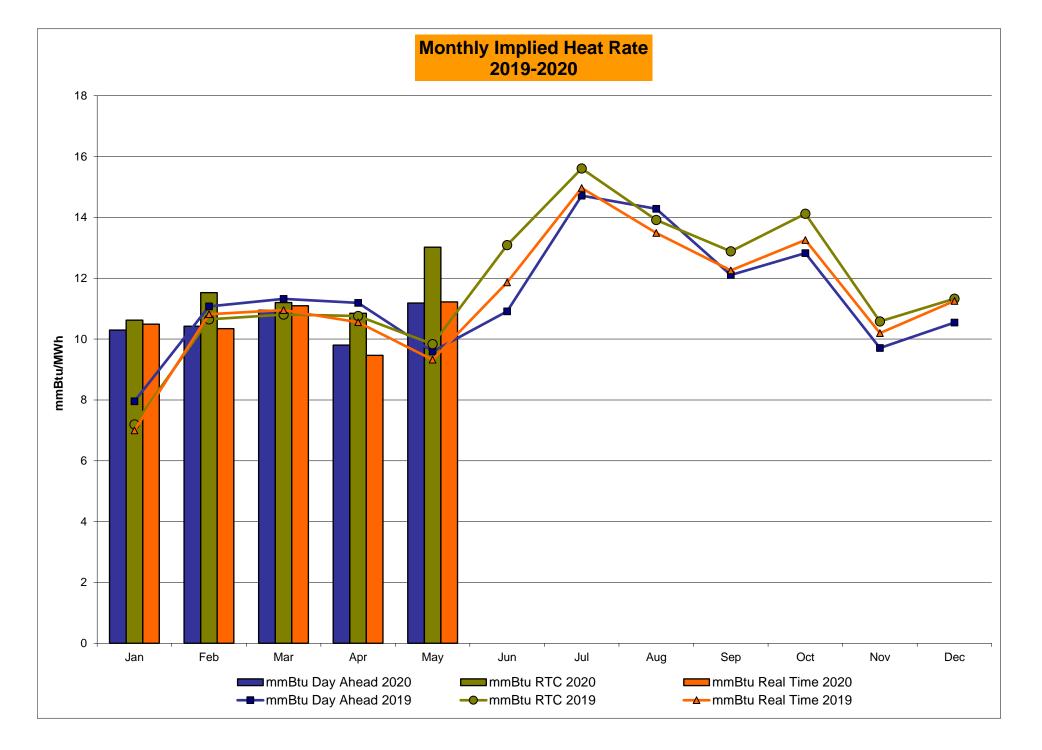
<u>October</u>	November	December
1.96	1.72	2.77
2.54	1.72	2.78
1.96	1.72	2.77
1.68	1.72	2.77
0.51	1.25	2.47
0.53	0.00	0.03
1.12	0.00	0.04
0.53	0.00	0.03
0.25	0.00	0.03
0.01	0.00	0.00
0.29	0.00	0.00
0.44	0.00	0.00
0.29	0.00	0.00
0.01	0.00	0.00
0.01	0.00	0.00
6.47	7.67	8.40
0.16	0.17	0.18



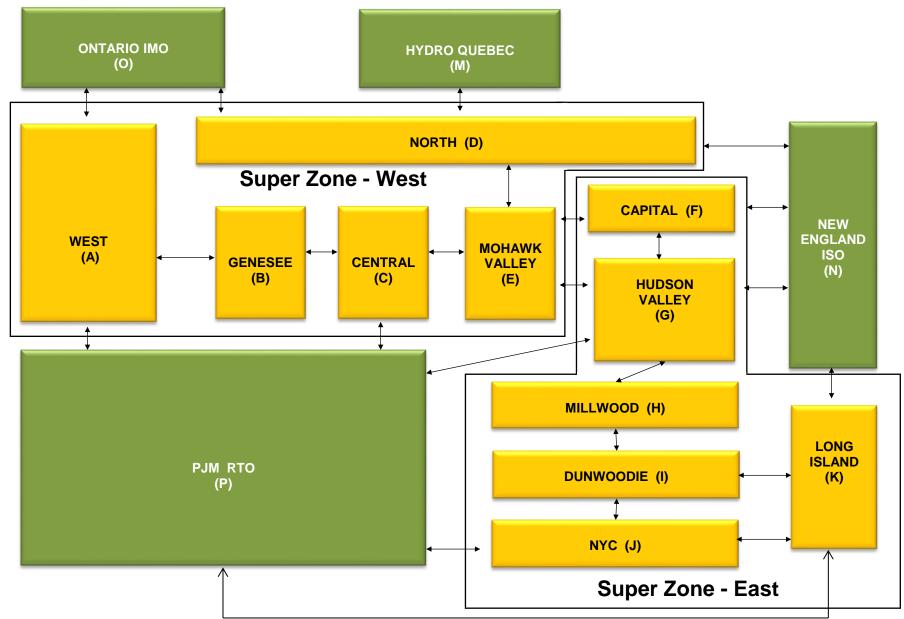




#### Market Mitigation and Analysis Prepared: 6/8/2020 11:01 AM



# NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 6/8/2020 11:01 AM

### 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



