

# **NYISO CEO/COO Report**

### **Richard Dewey**

President & Chief Executive Officer

#### **Rick Gonzales**

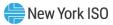
Senior Vice President & Chief Operating Officer

#### **Management Committee Meeting**

May 27, 2020 Rensselaer, NY

# NYISO CEO/COO Report

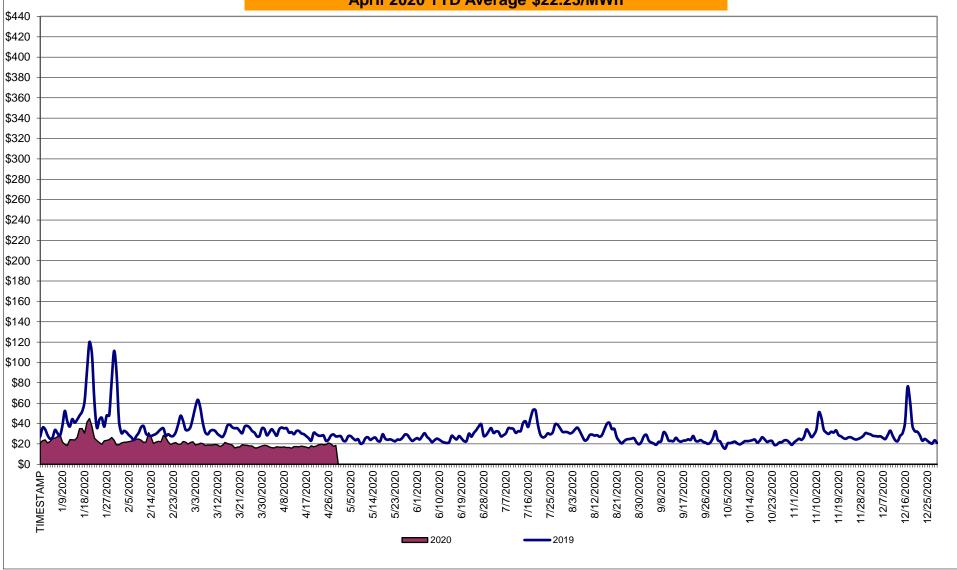
- CEO Report
- COO Report
  - Market Performance Highlights For Information Only
  - Operations Performance Metrics Monthly Report



# Market Performance Highlights April 2020

- LBMP for April is \$15.77/MWh; lower than \$17.11/MWh in March 2020 and \$28.01/MWh in April 2019.
  - Day Ahead and Real Time Load Weighted LBMPs are lower compared to March.
- April 2020 average year-to-date monthly cost of \$22.38/MWh is a 44% decrease from \$40.12/MWh in April 2019.
- Average daily sendout is 344 GWh/day in April; lower than 375 GWh/day in March 2020 and 371 GWh/day in April 2019.
- Natural gas prices are higher and distillate prices are lower compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$1.51 /MMBtu, up from \$1.49/MMBtu in March.
  - Natural gas prices are down 36.2% year-over-year.
  - Jet Kerosene Gulf Coast was \$4.60/MMBtu, down from \$7.13/MMBtu in March.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$6.42/MMBtu, down from \$8.53/MMBtu in March.
  - Distillate prices are down 62.5% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.08)/MWh; higher than (\$0.19)/MWh in March.
    - Local Reliability Share is \$0.14/MWh, higher than \$0.07/MWh in March.
    - Statewide Share is (\$0.21)/MWh, higher than (\$0.26)/MWh in March.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than March.

# Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\* 2019 Annual Average \$32.59/MWh April 2019 YTD Average \$40.12/MWh April 2020 YTD Average \$22.23/MWh

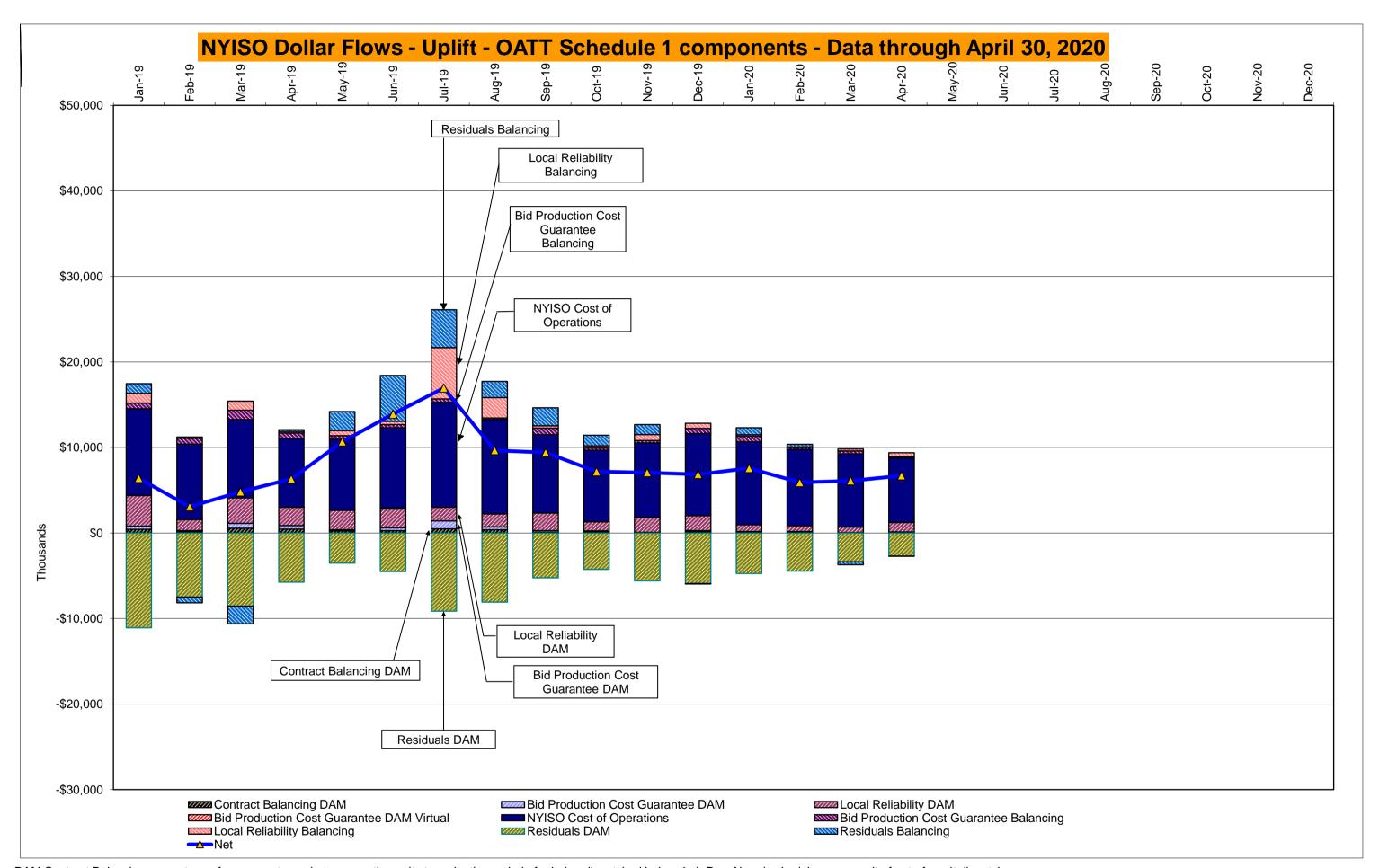


<sup>\*</sup> Excludes ICAP payments.

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

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

<sup>\*</sup> Excludes ICAP payments. Market Mitigation and Analysis Prepared: 5/7/2020 1:12 PM



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches.

DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart.

DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

#### **NYISO Markets Transactions**

<u>March</u>

<u>February</u>

<u>January</u>

<u>April</u>

<u>May</u>

<u>June</u>

<u>July</u>

August September

October November December

Day Ahead Market MWh	14,194,609	13,172,669	12,495,999	11,372,390	<u>iviay</u>	<u> </u>	<u> </u>	ragaot	<u>Coptombol</u>	<u> </u>	11010111001	<u> </u>
DAM LSE Internal LBMP Energy Sales	56%	56%	59%	54%								
DAM External TC LBMP Energy Sales	6%	5%	5%	7%								
DAM Bilateral - Internal Bilaterals	30%	30%	27%	30%								
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	6%	6%								
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%								
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	1%								
Balancing Energy Market MWh	-26,753	-142,168	144,076	22,599								
Balancing Energy LSE Internal LBMP Energy Sales	-1080%	-221%	-85%	-884%								
Balancing Energy External TC LBMP Energy Sales	1156%	181%	240%	1233%								
Balancing Energy Bilateral - Internal Bilaterals	62%	5%	12%	55%								
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%								
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	127%	16%	18%	92%								
Balancing Energy Bilateral - Wheel Through Bilaterals	-365%	-81%	-85%	-396%								
Transactions Summary												
LBMP	62%	62%	65%	61%								
Internal Bilaterals	31%	31%	27%	30%								
Import Bilaterals	5%	5%	6%	6%								
Export Bilaterals	2%	2%	2%	2%								
Wheels Through	0%	1%	0%	0%								
Market Share of Total Load												_
Day Ahead Market	100.2%	101.1%	98.9%	99.8%								
Balancing Energy +	-0.2%	-1.1%	1.1%	0.2%								
Total MWH	14,167,856	13,030,501	12,640,075	11,394,989								
Average Daily Energy Sendout/Month GWh	423	417	375	344								
<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market 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
DAM LSE Internal LBMP Energy Sales	57%	57%	59%	59%	57%	58%	64%	63%	58%	57%	54%	56%
DAM External TC LBMP Energy Sales	6%	5%	3%	1%	3%	3%	3%	3%	3%	4%	6%	6%
DAM Bilateral - Internal Bilaterals	29%	30%	30%	31%	32%	29%	26%	26%	30%	32%	32%	30%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	5%	6%	5%	4%	4%	5%	5%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	2%	2%	2%	1%	1%	2%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	1%	2%	2%	2%	2%	1%	1%	1%
Balancing Energy Market MWh	-322,442	-323,188	-261,217	-218,482	-392,699	-102,044	103,628	-514,102	-247,267	-112,057	-17,421	46,828
Balancing Energy LSE Internal LBMP Energy Sales	-120%	-126%	-138%	-178%	-150%	-264%	-2%	-119%	-163%	-346%	-1332%	-480%
Balancing Energy External TC LBMP Energy Sales	65%	67%	82%	113%	68%	233%	199%	41%	93%	266%	1435%	699%
Balancing Energy Bilateral - Internal Bilaterals	-4%	-1%	-3%	2%	1%	0%	5%	0%	-4%	6%	103%	39%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	15%	0%	0%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	3%	7%	6%	7%	2%	8%	8%	1%	6%	25%	170%	70%
Balancing Energy Bilateral - Wheel Through Bilaterals	-45%	-47%	-47%	-44%	-21%	-77%	-125%	-23%	-31%	-52%	-476%	-229%
Transactions Summary												
LBMP	63%	62%	61%	60%	59%	62%	68%	65%	61%	61%	60%	63%
Internal Bilaterals	29%	30%	30%	31%	33%	30%	25%	27%	30%	32%	32%	30%
Import Bilaterals			6%	6%	6%	5%	4%	5%	5%	5%	5%	5%
	5%	5%										
Export Bilaterals	1%	2%	2%	2%	2%	2%	1%	1%	2%	2%	2%	2%
Wheels Through				2% 1%	2% 0%	2% 1%	1% 1%	1% 1%	2% 2%	2% 0%	2% 0%	2% 0%
Wheels Through  Market Share of Total Load	1% 1%	2% 1%	2% 1%	1%	0%	1%	1%	1%	2%	0%	0%	0%
Wheels Through	1% 1% 102.2%	2% 1% 102.5%	2% 1% 102.0%	1% 101.9%	103.2%	1% 100.7%	1% 99.4%	1% 103.2%	2% 101.9%	100.9%	100.1%	99.7%
Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +	1% 1% 102.2% -2.2%	2% 1% 102.5% -2.5%	2% 1% 102.0% -2.0%	1% 101.9% -1.9%	0% 103.2% -3.2%	1% 100.7% -0.7%	99.4% 0.6%	1% 103.2% -3.2%	2% 101.9% -1.9%	0% 100.9% -0.9%	0%	0%
Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +  Total MWH	1% 1% 102.2% -2.2% 14,977,016	2% 1% 102.5% -2.5% 13,068,195	2% 1% 102.0% -2.0% 13,266,617	1% 101.9% -1.9% 11,592,547	0% 103.2% -3.2% 12,128,884	1% 100.7% -0.7% 13,621,328	99.4% 0.6% 17,520,217	1% 103.2% -3.2% 15,865,866	2% 101.9% -1.9% 13,341,448	0% 100.9% -0.9% 12,455,764	0% 100.1% -0.1% 13,018,731	99.7% 0.3% 14,392,539
Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +	1% 1% 102.2% -2.2%	2% 1% 102.5% -2.5%	2% 1% 102.0% -2.0%	1% 101.9% -1.9%	0% 103.2% -3.2%	1% 100.7% -0.7%	99.4% 0.6%	1% 103.2% -3.2%	2% 101.9% -1.9%	0% 100.9% -0.9%	0% 100.1% -0.1%	99.7% 0.3%

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

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

<u>2020</u>

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

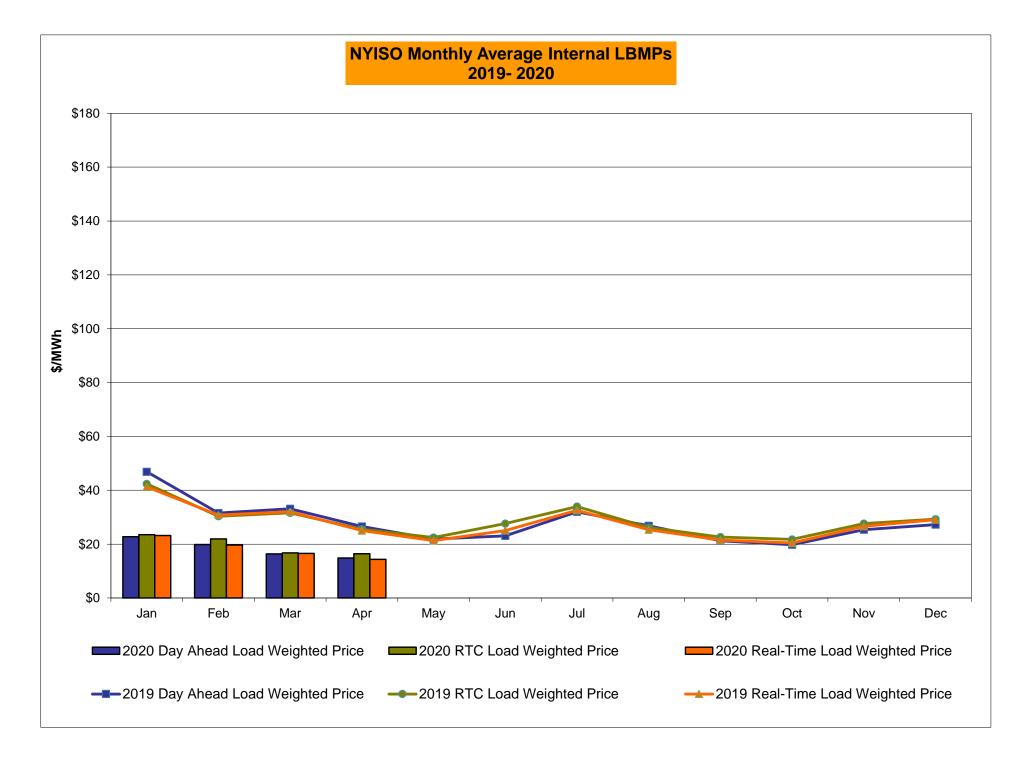
#### NYISO Markets 2020 Energy Statistics

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

#### **NYISO Markets 2019 Energy Statistics**

DAY AHEAD LBMP	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August S	<u>September</u>	October	November [	<u>December</u>
Price *	\$45.01	\$30.66	\$32.34	\$25.97	\$21.16	\$21.79	\$30.16	\$25.35	\$20.45	\$19.18	\$24.65	\$26.29
Standard Deviation	\$25.67	\$12.86	\$9.30	\$6.32	\$5.89	\$7.28	\$12.06	\$8.73	\$5.57	\$5.09	\$7.73	\$11.81
Load Weighted Price **	\$46.88	\$31.53	\$33.14	\$26.57	\$21.89	\$23.04	\$31.98	\$26.83	\$21.23	\$19.77	\$25.36	\$27.22
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

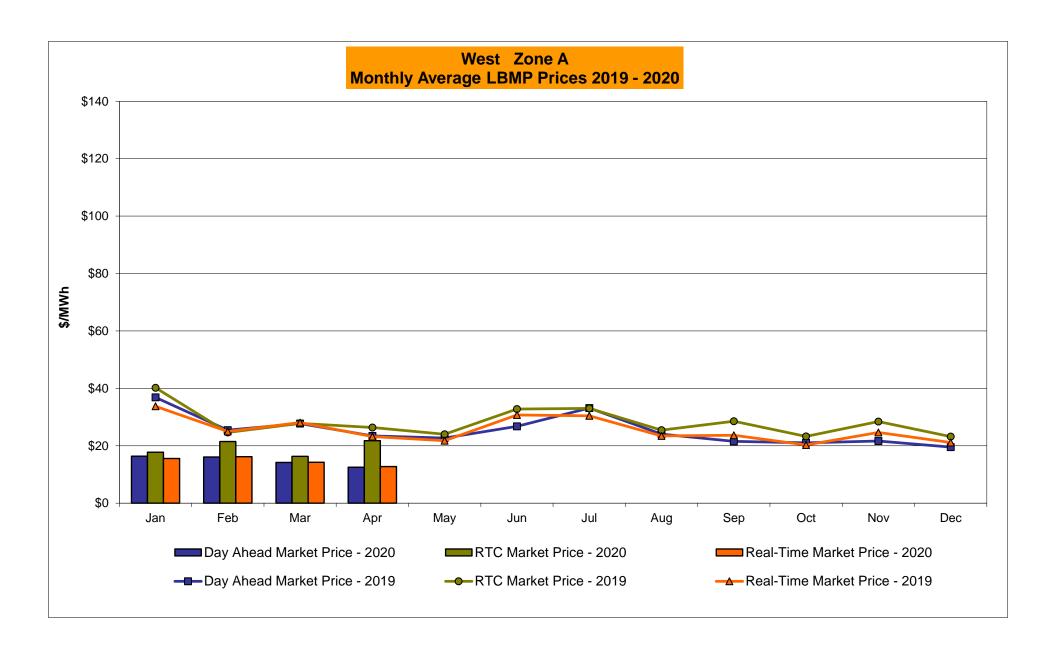
<sup>\*</sup> Average zonal load weighted prices.
\*\* Average zonal load weighted prices, load weighted in each hour.

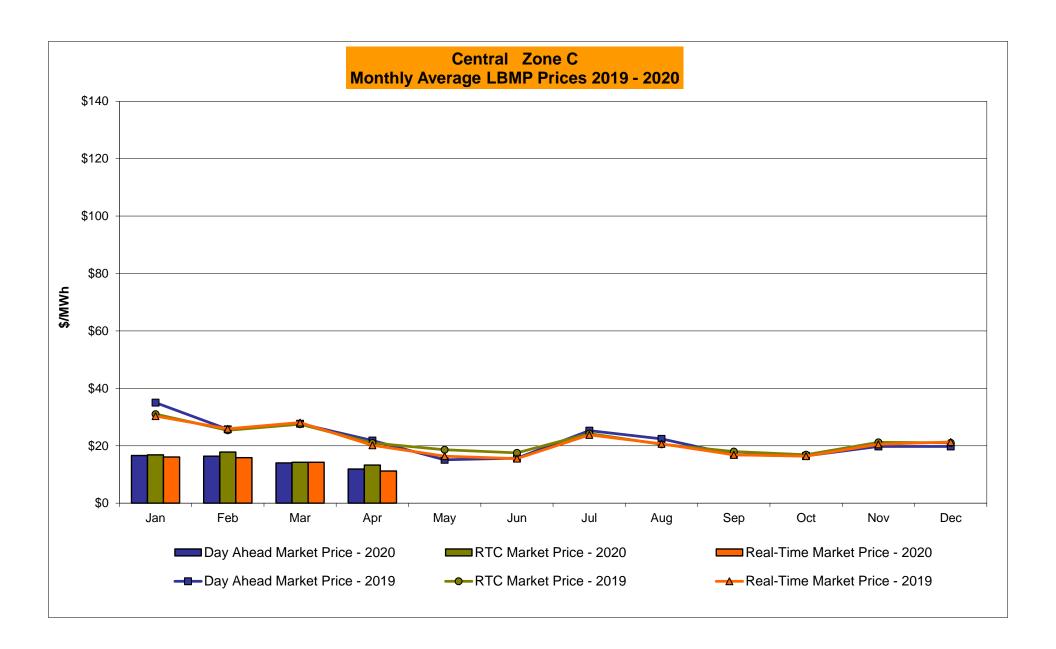


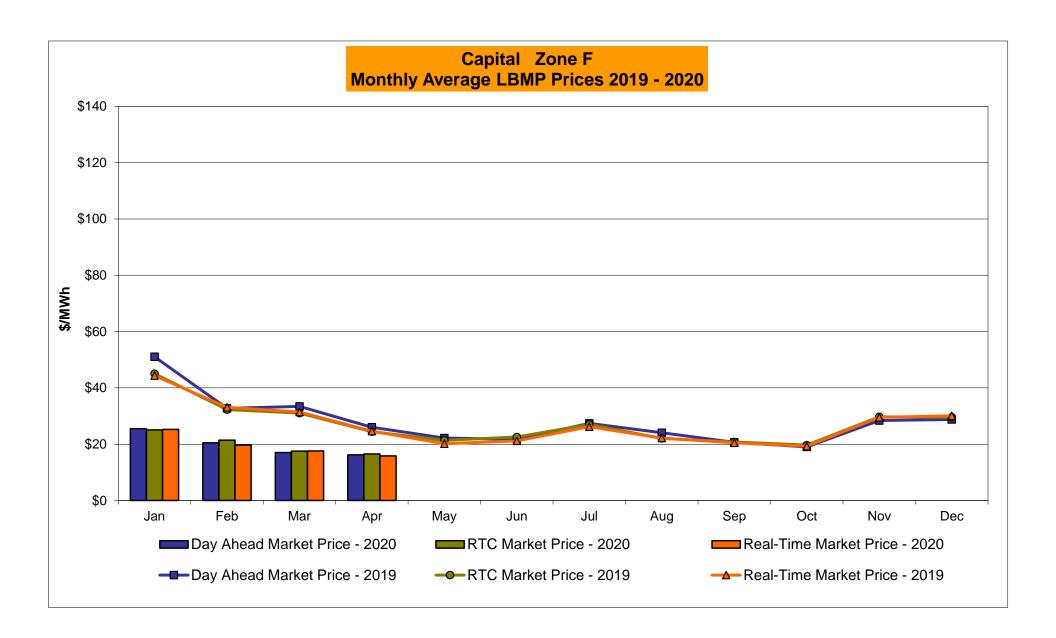
#### April 2020 Zonal LBMP Statistics for NYISO (\$/MWh)

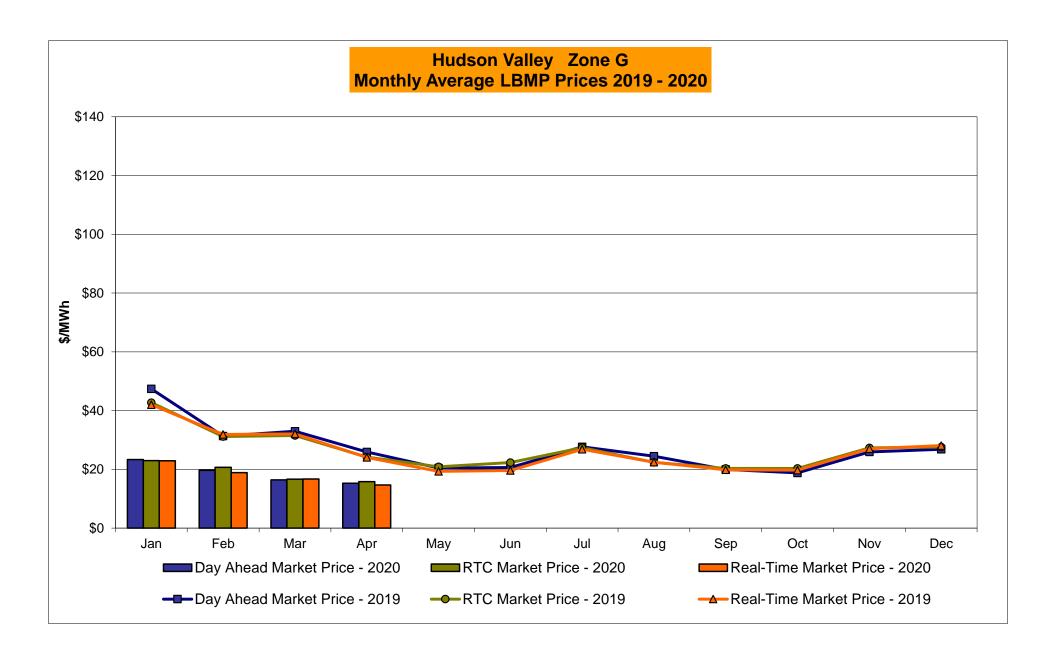
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	12.54	11.39	10.63	11.87	11.87	16.19	15.26	15.39	15.40	15.53	18.90
Standard Deviation	5.15	3.09	3.21	3.15	3.14	2.65	2.34	2.37	2.37	2.39	4.13
RTC LBMP											
Unweighted Price *	21.78	12.53	11.98	13.24	13.08	16.55	15.81	15.92	15.93	15.83	19.70
Standard Deviation	17.59	4.93	5.04	4.95	4.82	4.53	3.92	3.96	3.95	4.11	15.83
REAL TIME LBMP											
Unweighted Price *	12.77	10.74	10.09	11.22	11.21	15.81	14.67	14.79	14.79	14.87	18.40
Standard Deviation	12.07	9.12	9.94	9.06	9.16	8.93	7.05	7.13	7.11	7.17	11.89
		HADBU	HADBU			CDOSS					
	ONTARIO	HYDRO	HYDRO		NEW	CROSS	NORTHPORT-				
	ONTARIO IFSO	QUEBEC	QUEBEC	P.IM	NEW FNGI AND	SOUND	NORTHPORT-	NEPTUNE	I INDEN VET	HUDSON	Dennison
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE Controllable	LINDEN VFT	HUDSON Controllable	Dennison Controllable
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND		NEPTUNE Controllable Line	LINDEN VFT Controllable Line	HUDSON Controllable Line	Dennison Controllable Line
DAY AHEAD LBMP	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	<u>Controllable</u>	Controllable
<b>DAY AHEAD LBMP</b> Unweighted Price *	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	<u>Controllable</u>	Controllable
	IESO Zone O	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export) Zone M	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	<b>Zone O</b> 10.46	QUEBEC (Wheel)  Zone M  10.83	QUEBEC (Import/Export)  Zone M  10.80	<b>Zone P</b> 10.46	ENGLAND  Zone N  16.35	SOUND CABLE Controllable Line	NORWALK Controllable Line 18.91	Controllable Line 18.67	Controllable Line 10.50	Controllable Line 15.41	Controllable Line 18.11
Unweighted Price * Standard Deviation	<b>Zone O</b> 10.46	QUEBEC (Wheel)  Zone M  10.83	QUEBEC (Import/Export)  Zone M  10.80	<b>Zone P</b> 10.46	ENGLAND  Zone N  16.35	SOUND CABLE Controllable Line	NORWALK Controllable Line 18.91	Controllable Line 18.67	Controllable Line 10.50	Controllable Line 15.41	Controllable Line 18.11
Unweighted Price * Standard Deviation  RTC LBMP	<b>Zone O</b> 10.46 2.59	QUEBEC (Wheel) Zone M 10.83 3.22	QUEBEC (Import/Export)  Zone M  10.80 3.18	<b>Zone P</b> 10.46 2.59	<b>Zone N</b> 16.35 2.63	SOUND CABLE Controllable Line 13.48 2.42	NORWALK Controllable Line  18.91 4.22	Controllable Line 18.67 4.19	Controllable Line 10.50 3.15	Controllable Line 15.41 2.54	Controllable Line 18.11 3.89
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	2one O 10.46 2.59 9.45 4.54	QUEBEC (Wheel)  Zone M  10.83 3.22  12.12 5.04	QUEBEC (Import/Export)  Zone M  10.80 3.18  12.12 5.04	Zone P  10.46 2.59  9.45 4.54	<b>Zone N</b> 16.35 2.63  18.16 5.65	SOUND CABLE Controllable Line 13.48 2.42 15.27 4.65	NORWALK Controllable Line  18.91 4.22  20.80 20.52	18.67 4.19 19.15 15.02	Controllable Line 10.50 3.15 11.78 5.37	15.41 2.54 15.97 3.97	18.11 3.89 18.95 14.93
Unweighted Price * Standard Deviation  RTC LBMP  Unweighted Price * Standard Deviation	IESO  Zone O  10.46 2.59  9.45	QUEBEC (Wheel)  Zone M  10.83 3.22	QUEBEC (Import/Export)  Zone M  10.80 3.18	<b>Zone P</b> 10.46 2.59	<b>ENGLAND Zone N</b> 16.35 2.63	SOUND CABLE Controllable Line 13.48 2.42	NORWALK Controllable Line  18.91 4.22	200 Line 18.67 4.19	Controllable Line 10.50 3.15	2.54 15.97	200 Controllable Line 18.11 3.89

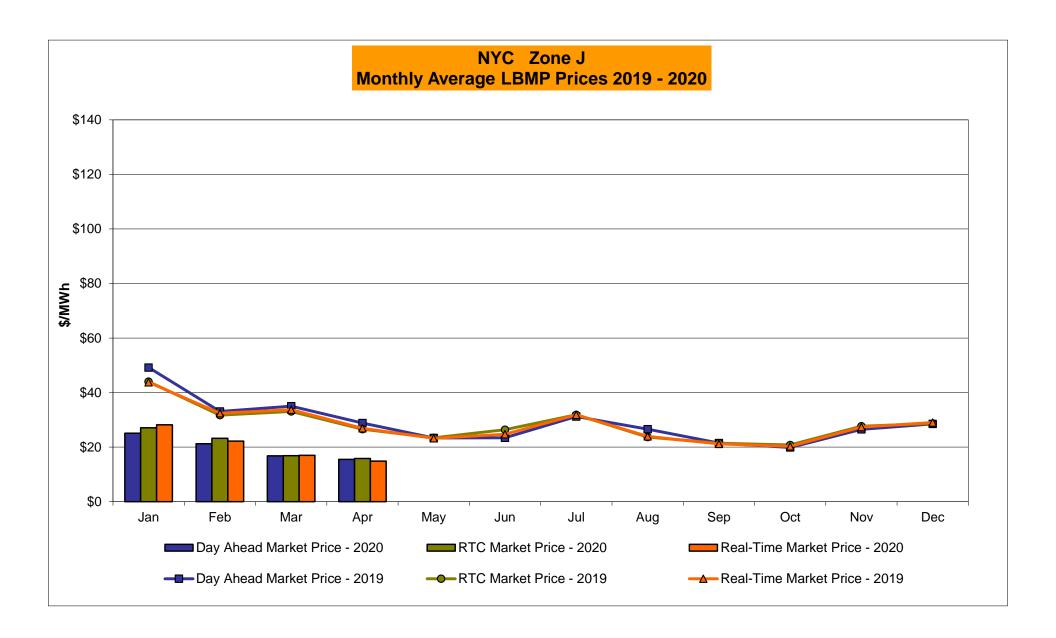
<sup>\*</sup> Straight LBMP averages

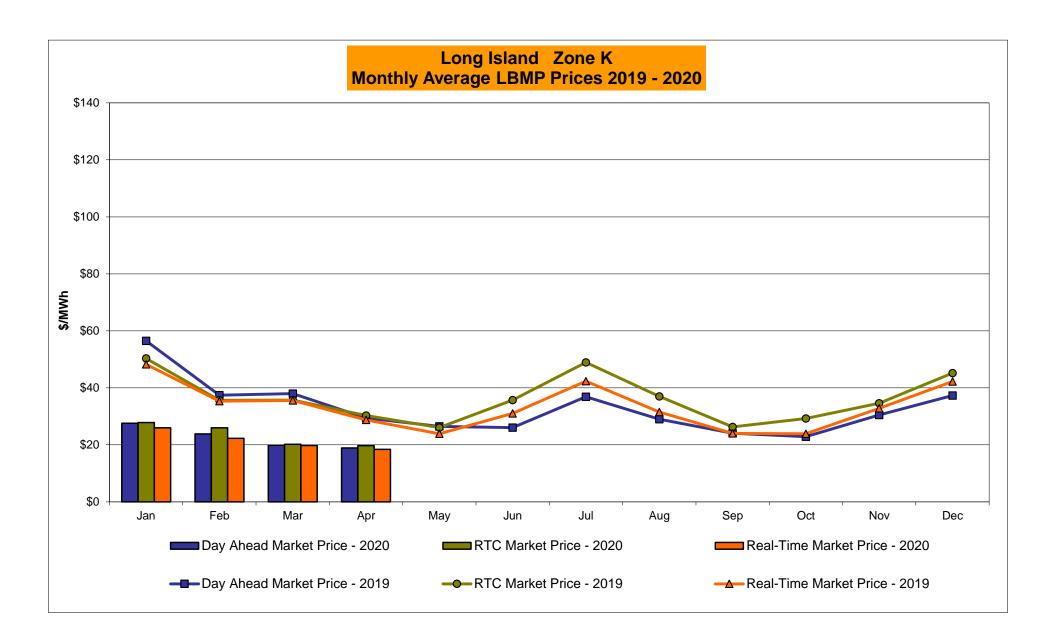


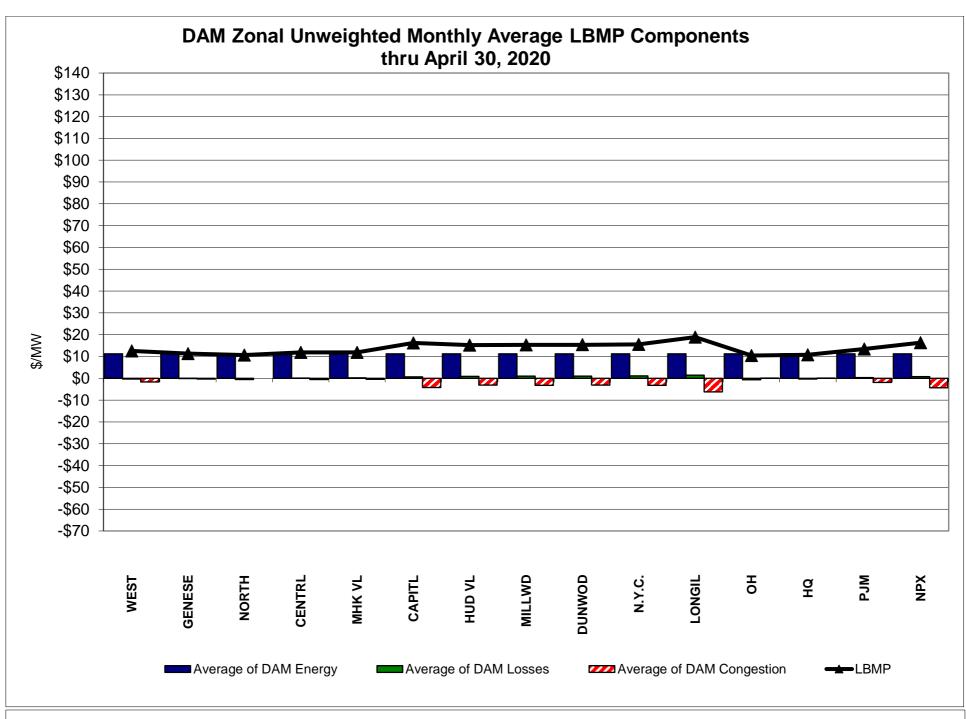


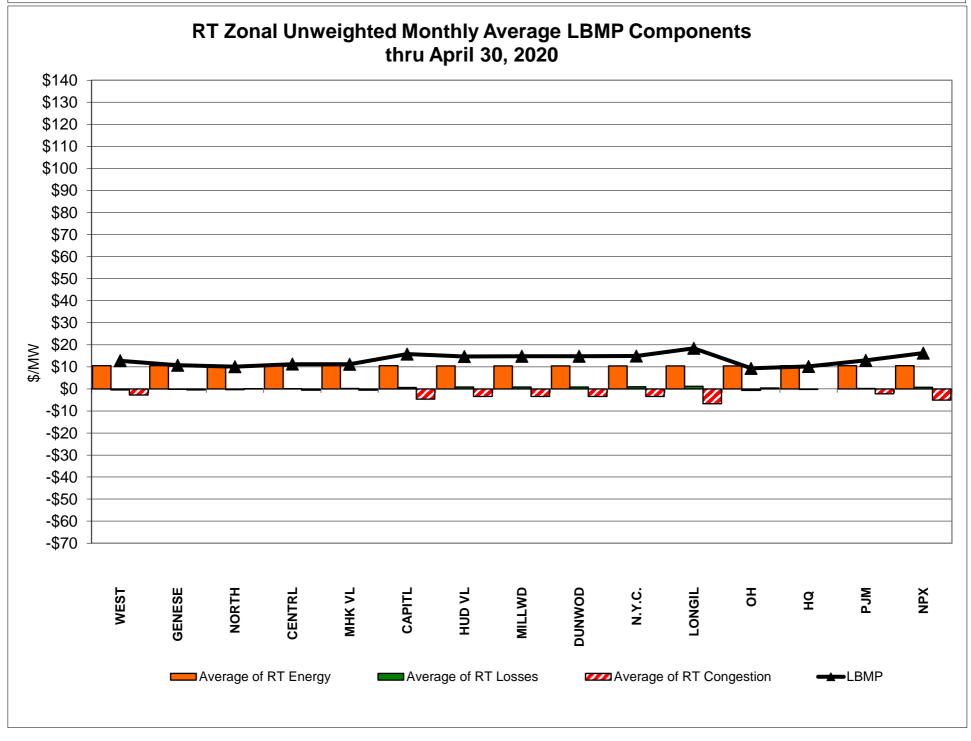




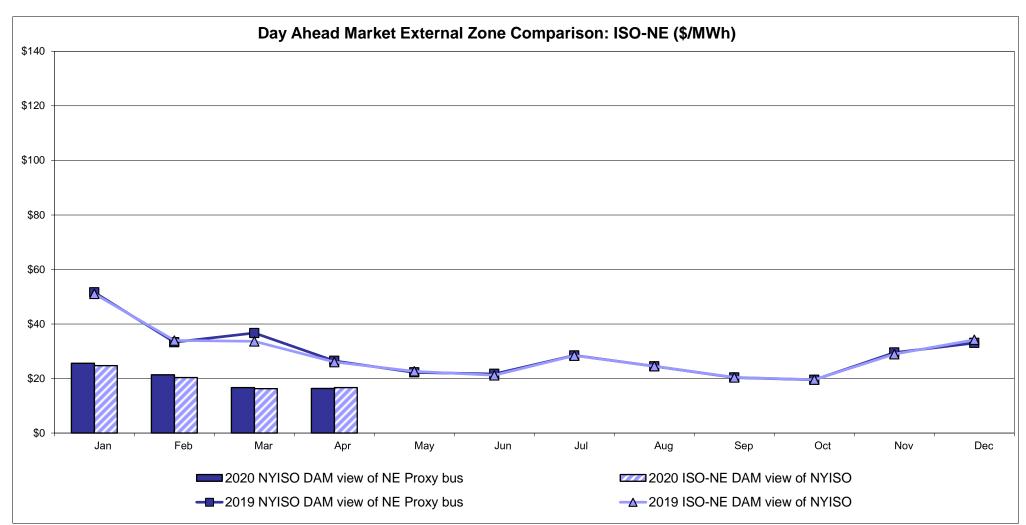


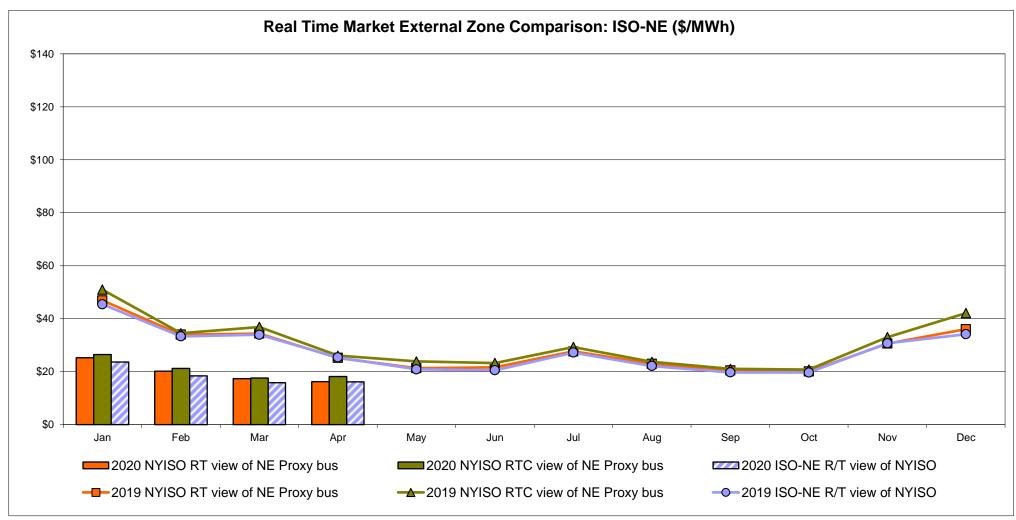




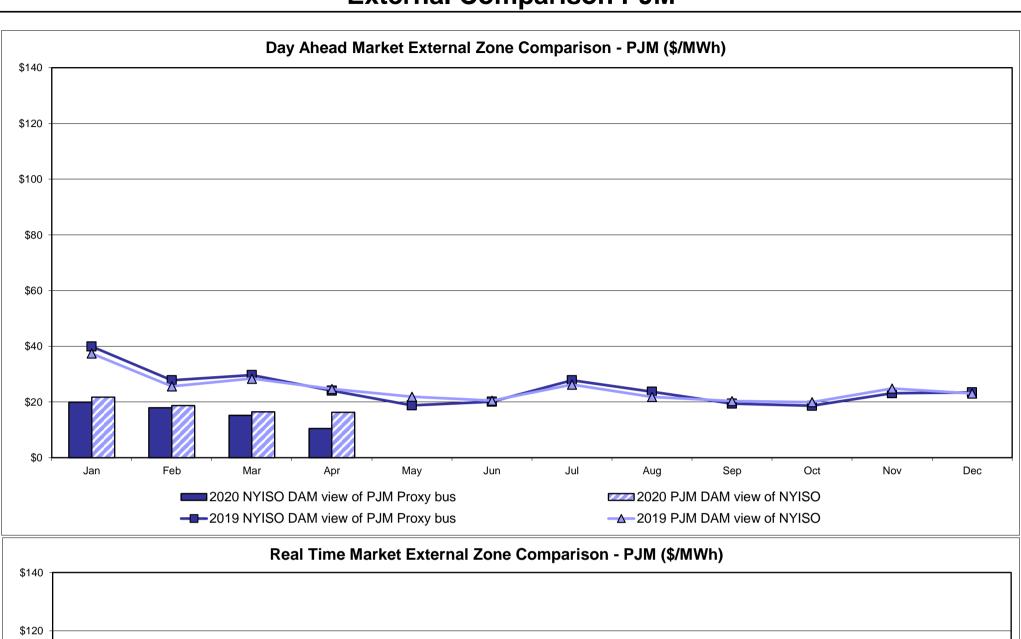


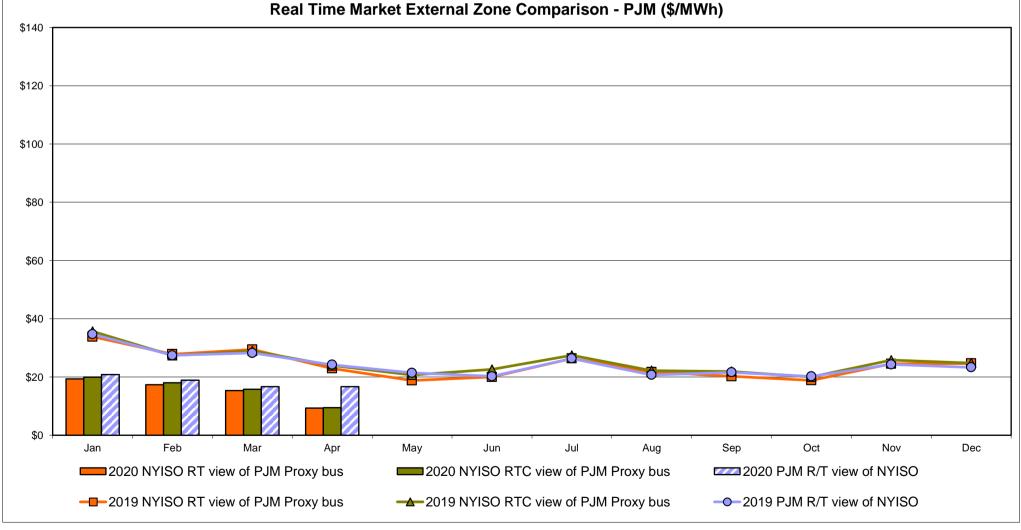
# **External Comparison ISO-New England**



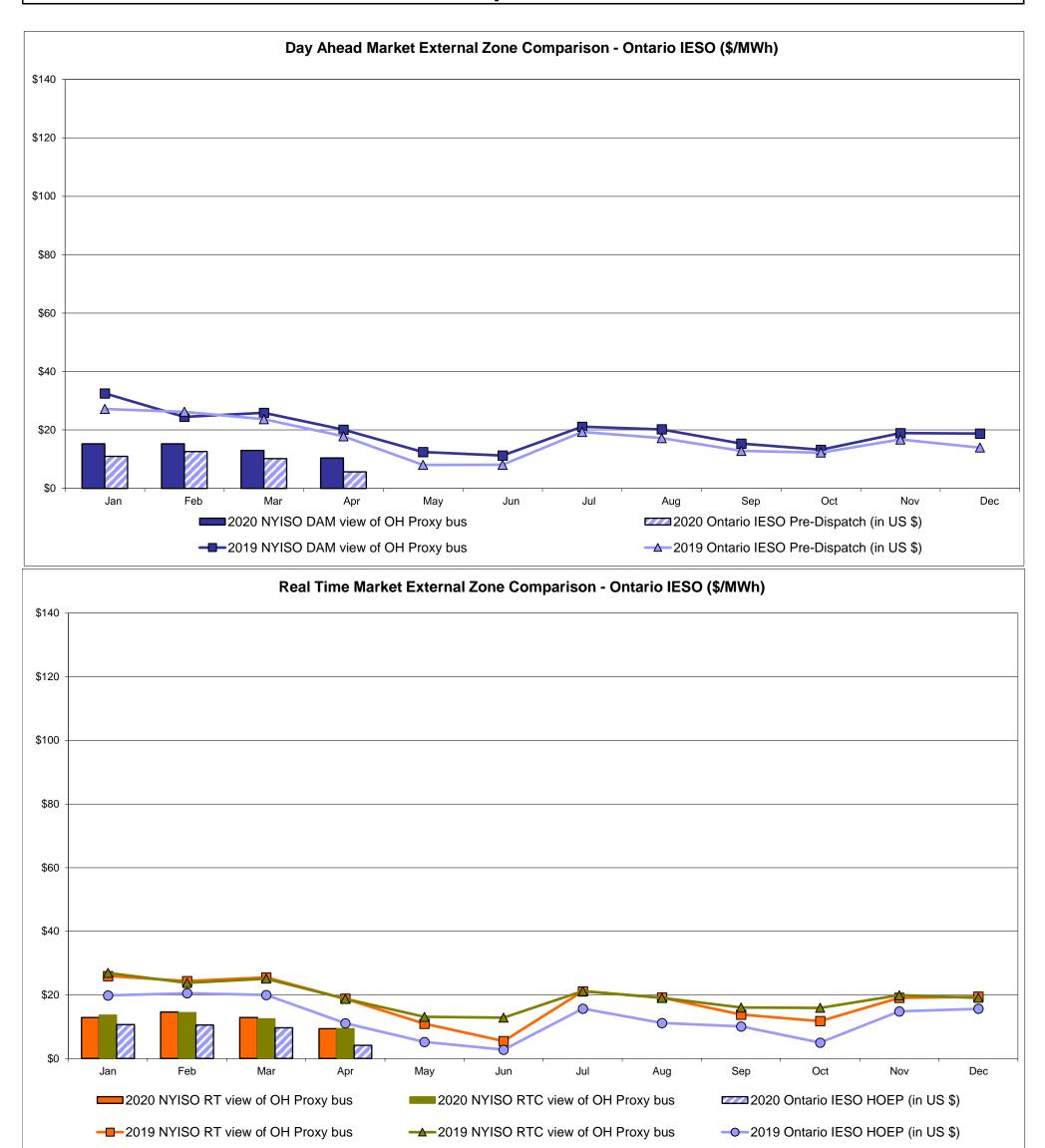


# **External Comparison PJM**





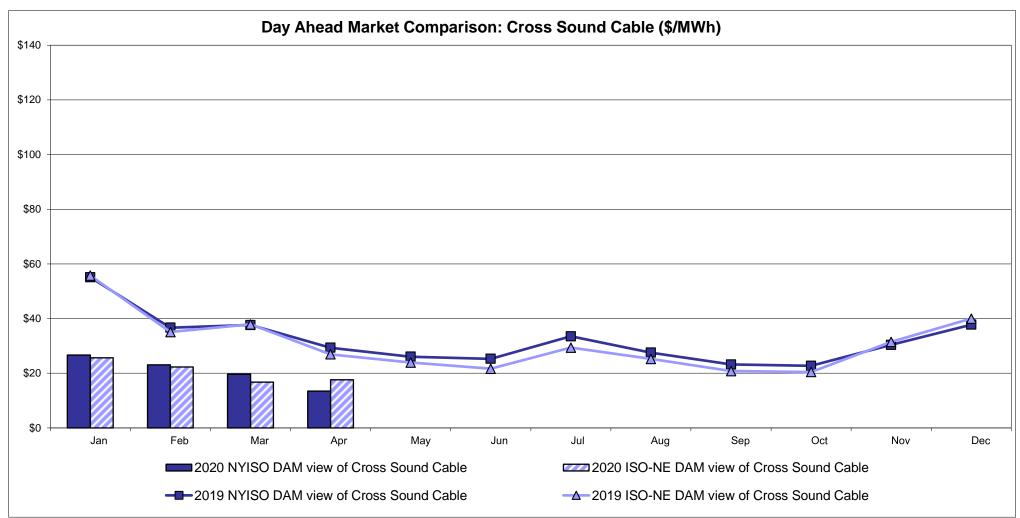
## **External Comparison Ontario IESO**

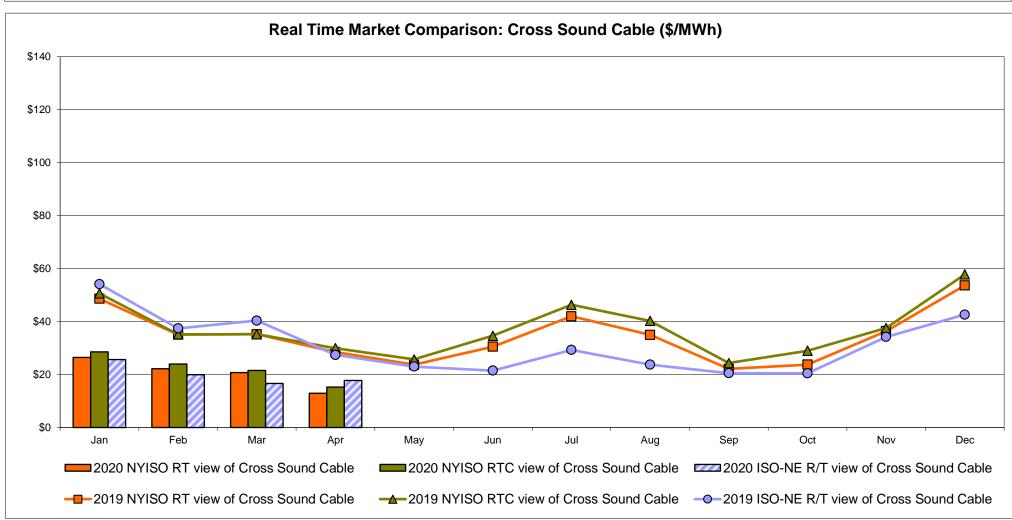


Notes: Exchange factor used for April 2020 was 0.711845102505695 to US

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

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





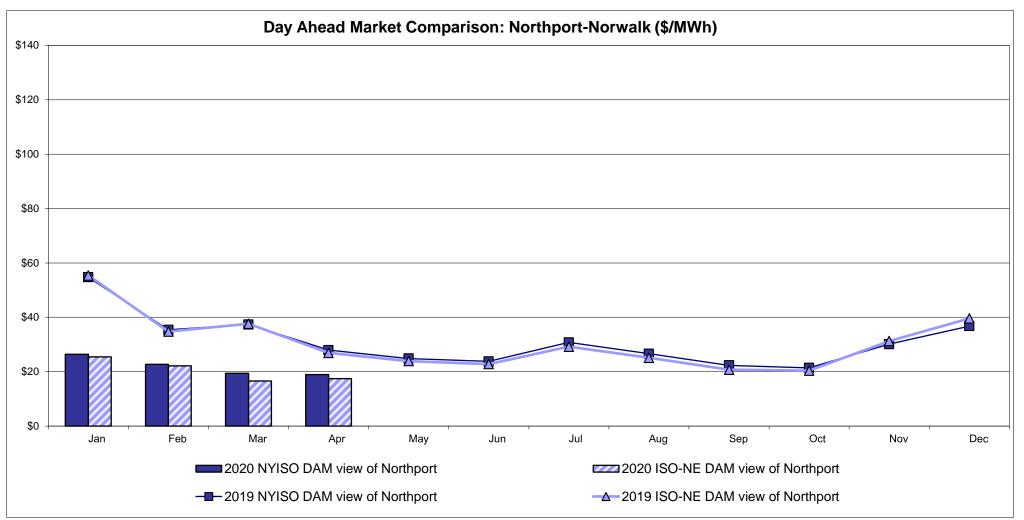
#### Note:

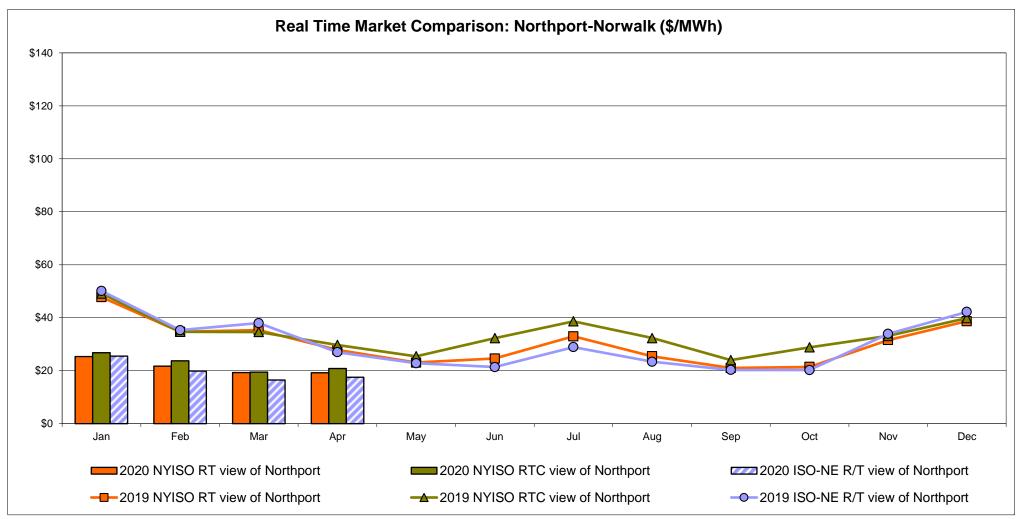
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

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





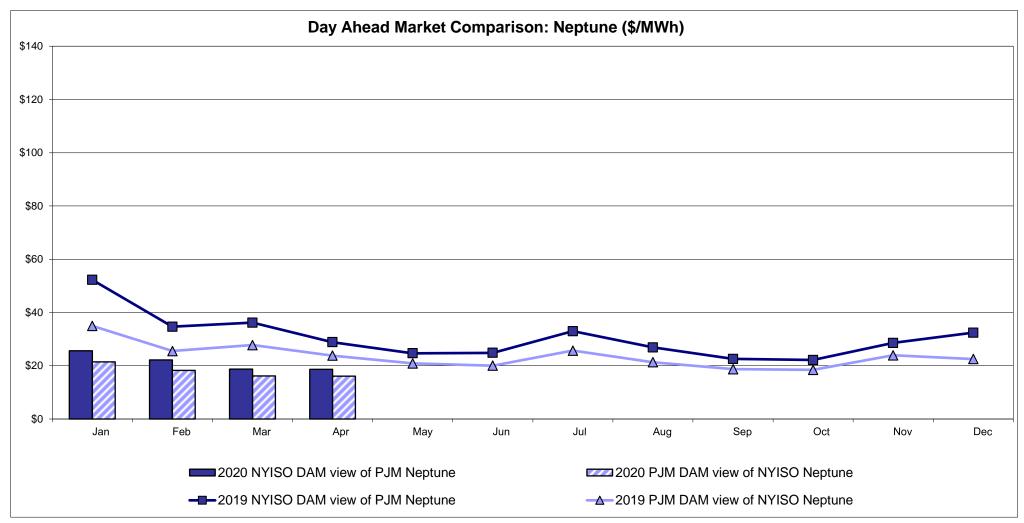
#### Note:

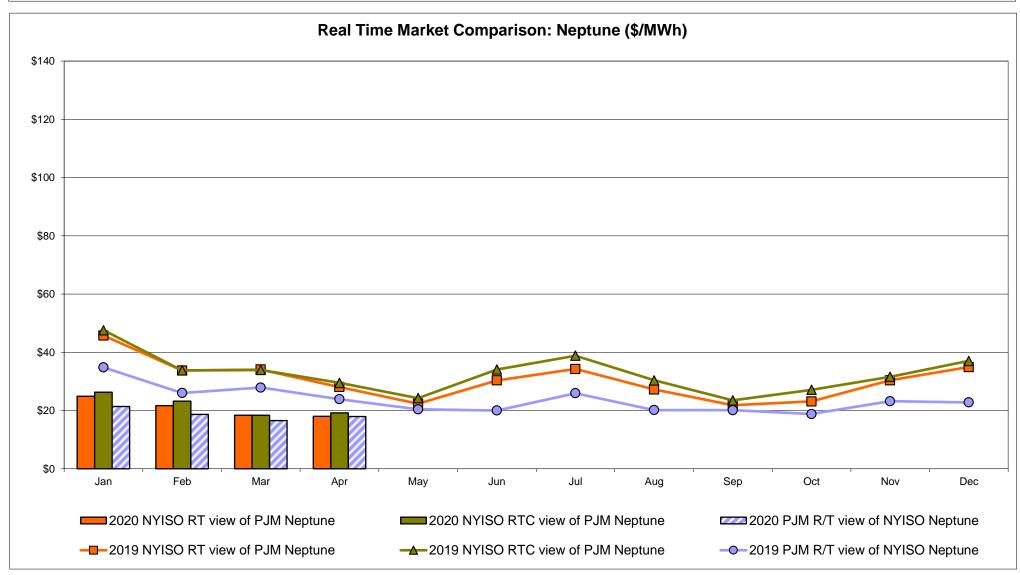
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

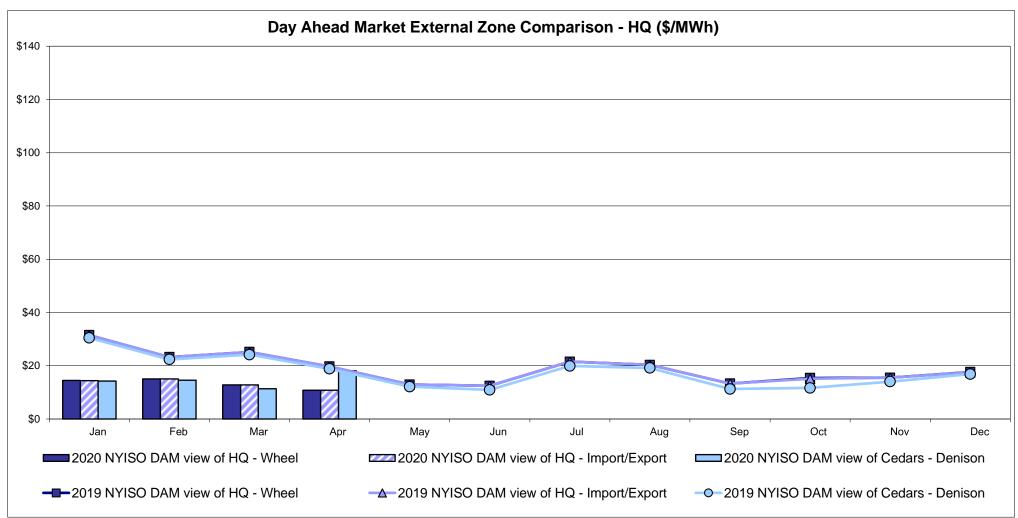
The DAM and R/T prices at the 1385 interface are used for NYISO.

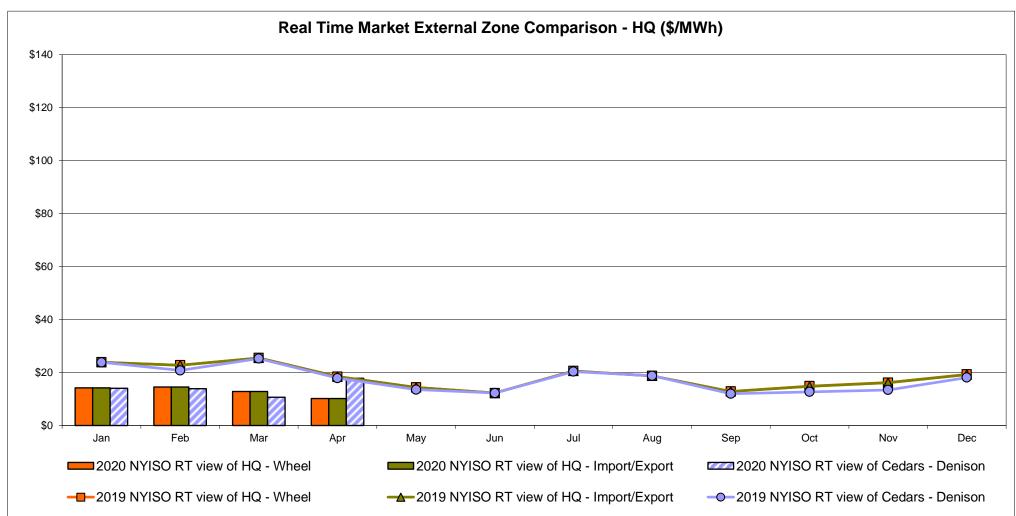
# **External Controllable Line: Neptune (PJM)**





# **External Comparison Hydro-Quebec**

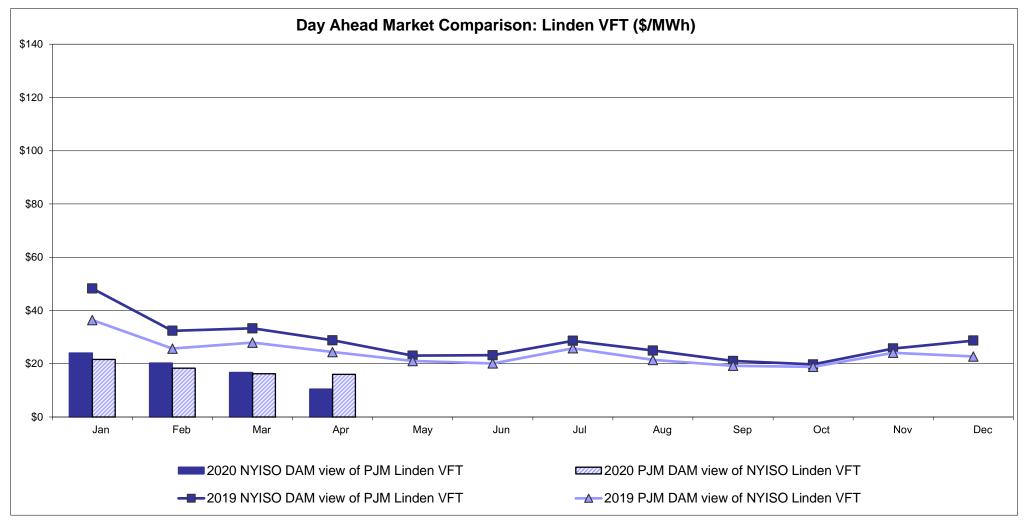


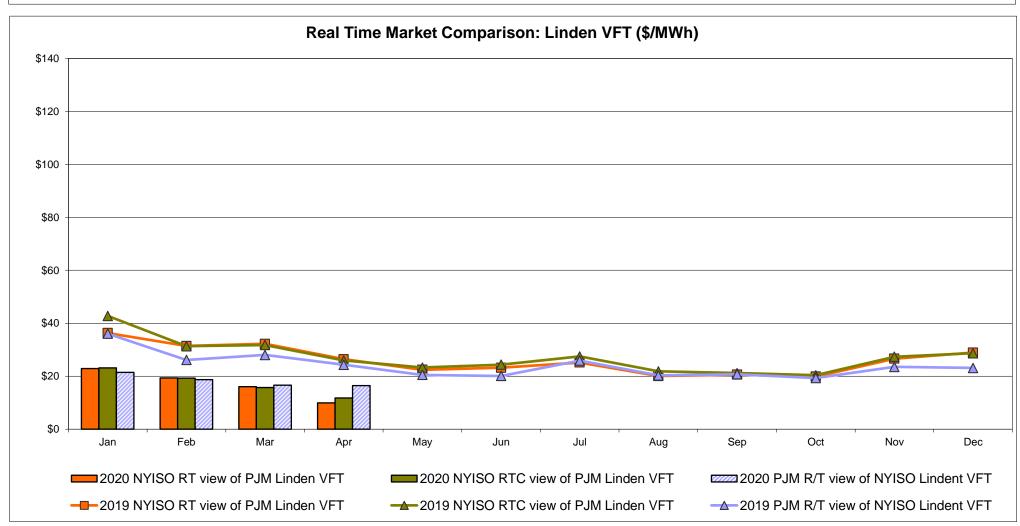


Note:

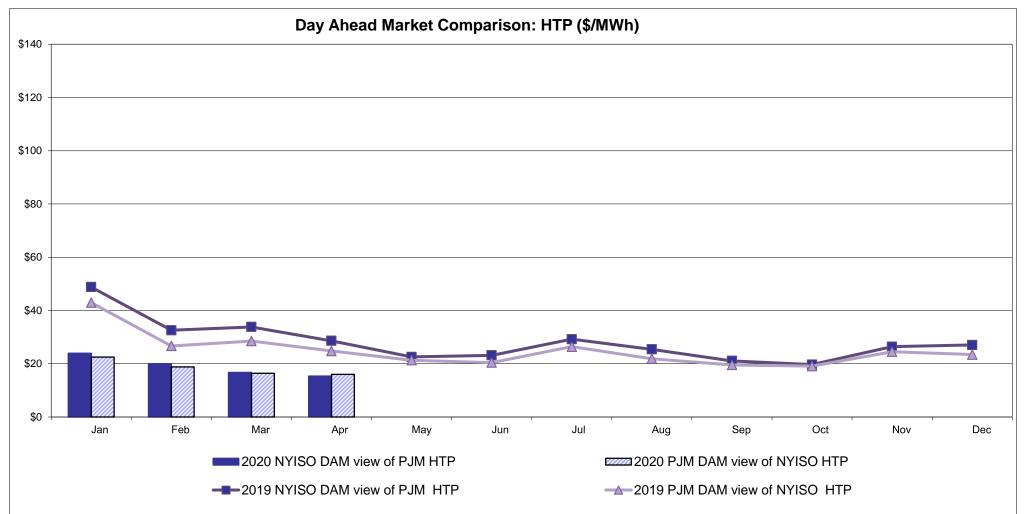
Hydro-Quebec Prices are unavailable.

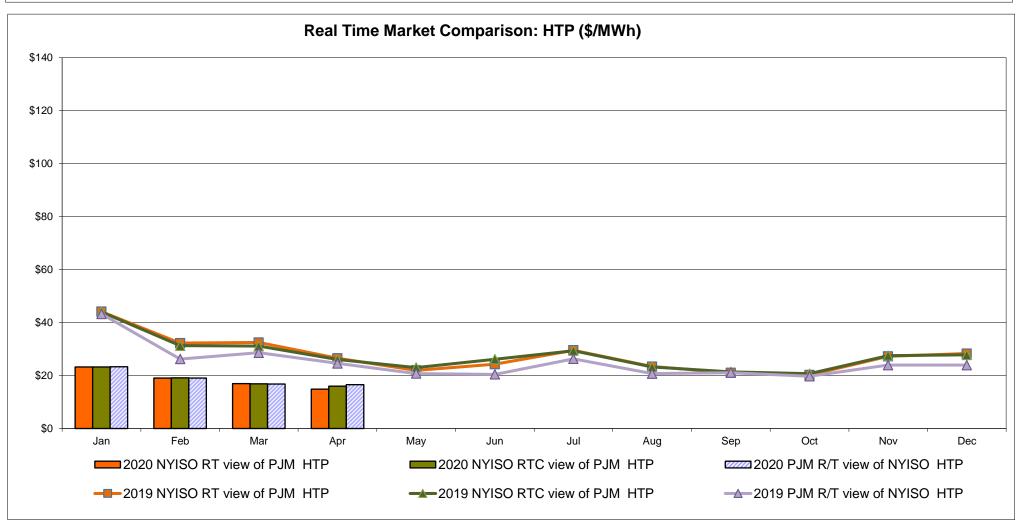
# **External Controllable Line: Linden VFT (PJM)**





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

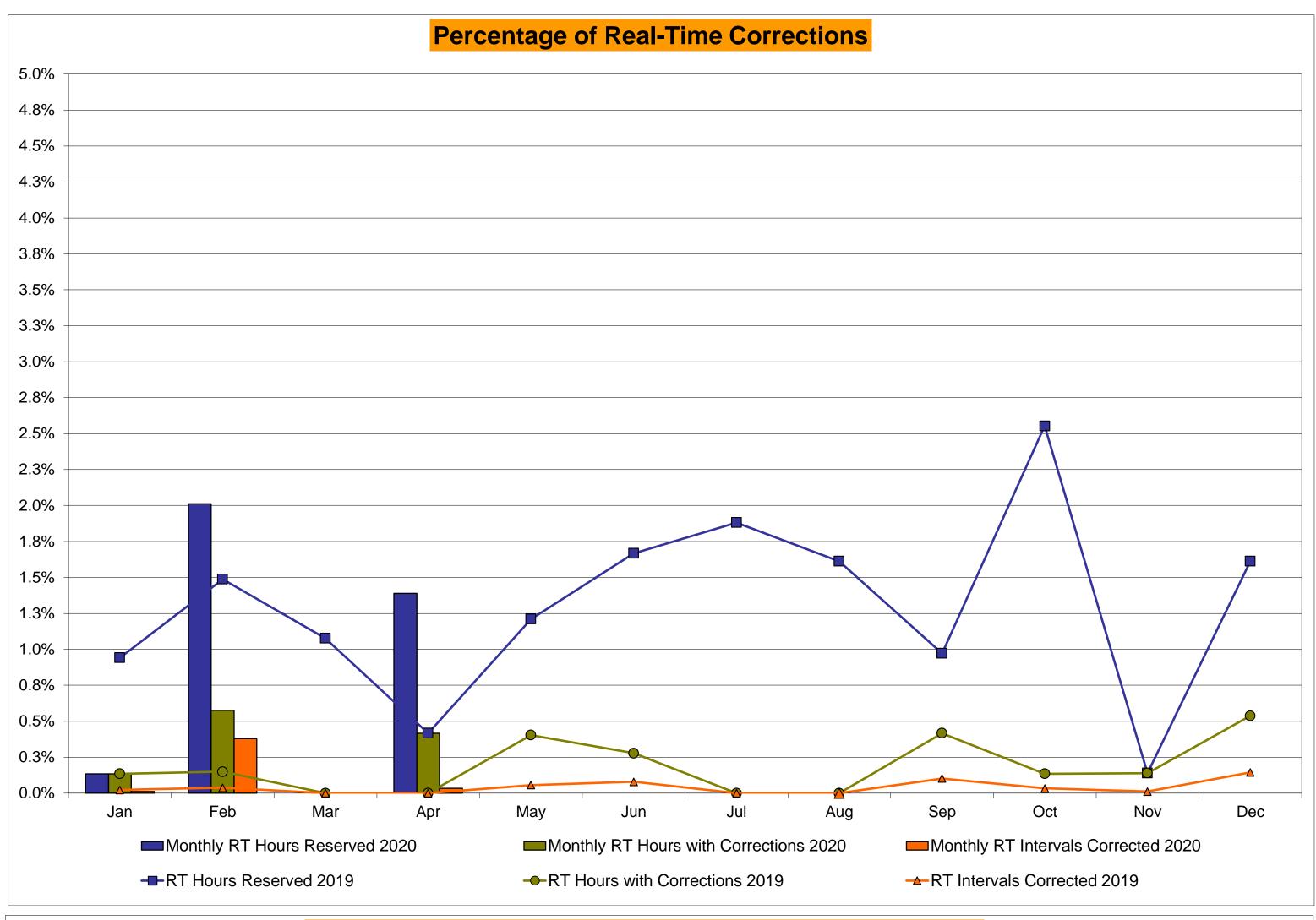


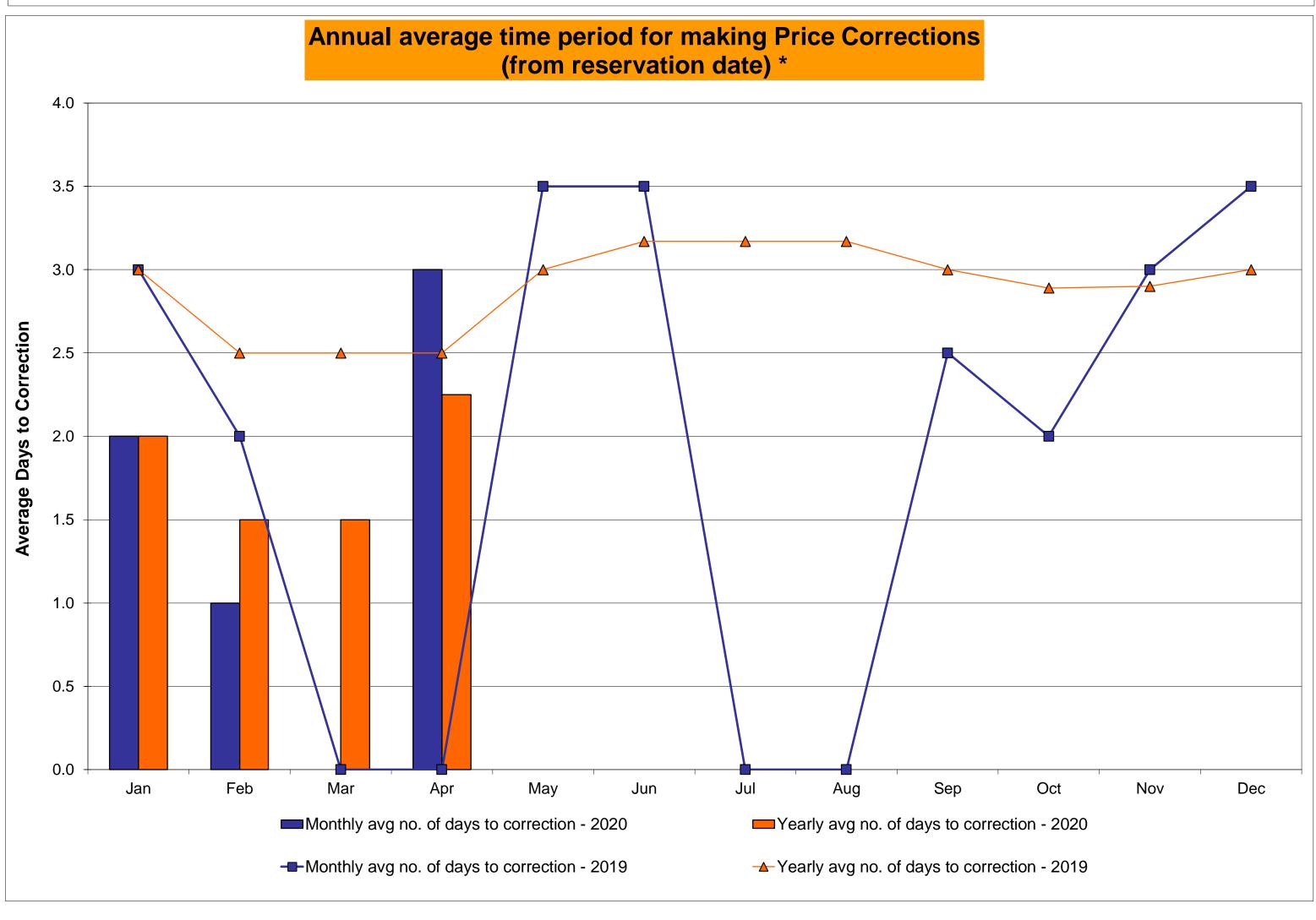


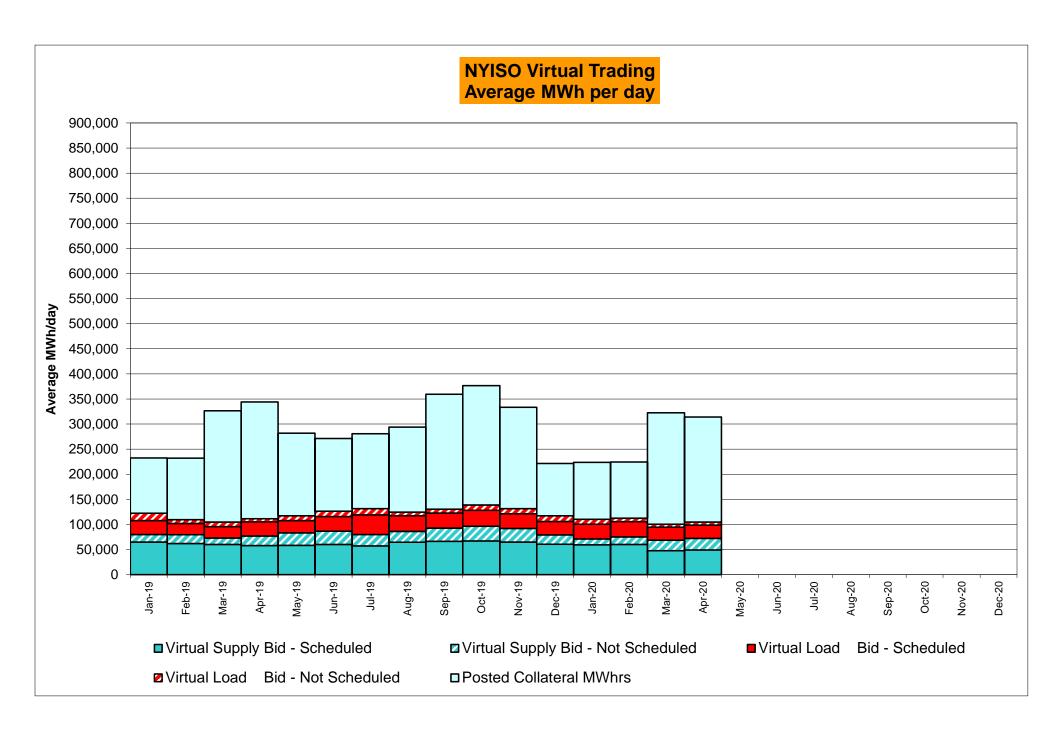
### **NYISO Real Time Price Correction Statistics**

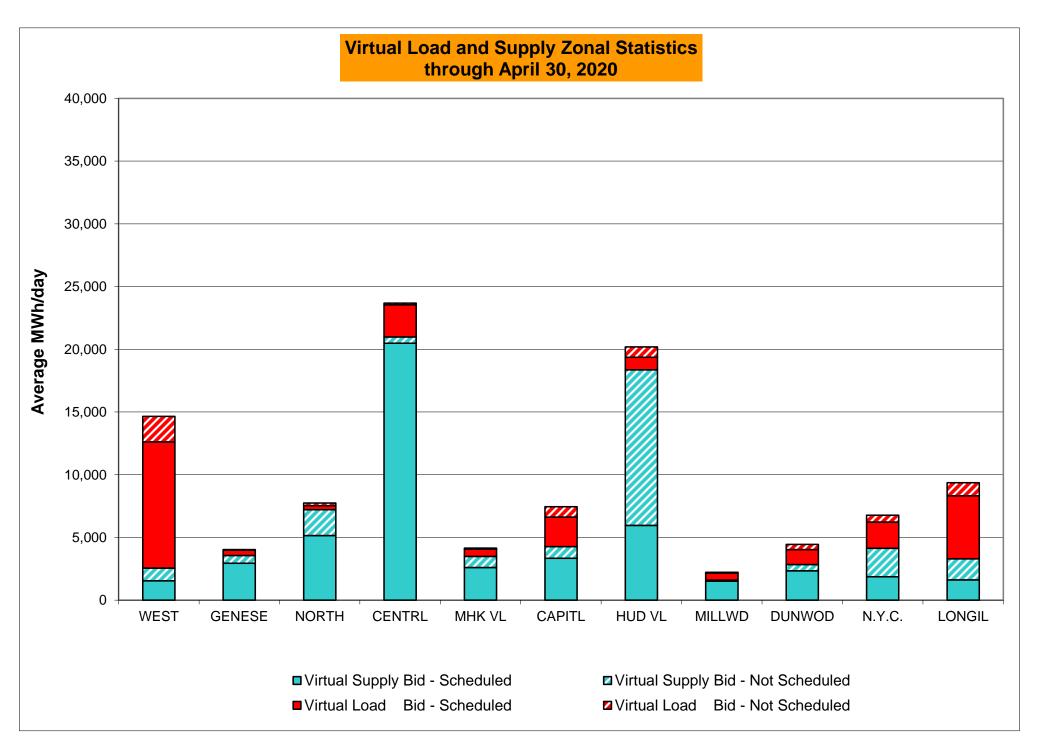
2020 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
Number of hours with corrections	in the month	1	4	0	3								
Number of hours	in the month	744	696	0 743	720								
% of hours with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

<sup>\*</sup>Calendar days from reservation date; for June 2018 forward, business days from market date









#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2020 **Virtual Load Bid Virtual Supply Bid Virtual Load Bid Virtual Supply Bid Virtual Load Bid Virtual Supply Bid** Not Not Not Not Not Not Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Zone Zone Zone WEST MHK VL DUNWOD 984 3,191 Jan-20 7,809 1,328 1,765 Jan-20 747 77 2,155 793 Jan-20 1,120 241 370 Feb-20 8,213 1,248 2,597 947 Feb-20 724 88 2,339 504 Feb-20 536 298 3,782 368 1,236 97 766 282 Mar-20 9,155 1,778 1,637 Mar-20 481 2,455 542 Mar-20 109 3,143 10,056 2,032 1,542 1,018 577 86 2,599 888 423 2,336 504 Apr-20 Apr-20 Apr-20 1,185 May-20 May-20 May-20 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 GENESE 553 995 CAPITL 1,235 N.Y.C. Jan-20 131 1,749 Jan-20 1,772 539 3,324 Jan-20 6,699 2,678 2,148 1,639 2.082 640 Feb-20 Feb-20 534 79 Feb-20 2.046 418 3.149 673 9.452 1,841 1,316 1.894 Mar-20 397 46 2,294 550 Mar-20 443 837 Mar-20 4,317 1,126 2,571 1,446 3,181 1,676 Apr-20 422 42 2,940 622 Apr-20 2,367 825 3,335 928 Apr-20 2,089 1,864 2,269 546 May-20 May-20 May-20 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 5,038 HUD VL 2,206 LONGIL 2,824 Jan-20 811 206 1,765 Jan-20 891 1,274 7,573 Jan-20 5,640 2,246 1,109 Feb-20 402 276 5,144 2,014 Feb-20 886 722 5,838 Feb-20 4,795 1,683 1,678 1,217 8,517 Mar-20 335 293 5,075 2,315 Mar-20 944 634 6,811 10,029 Mar-20 5,402 1,429 1,602 1,683 5,033 Apr-20 321 210 2,057 1,001 813 12,414 Apr-20 1,036 1,620 5,153 Apr-20 5,955 1,672 May-20 May-20 May-20 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 CENTRL Jan-20 3,050 214 28,503 541 MILLWD Jan-20 270 68 1,646 213 **NYISO** Jan-20 29,361 9,580 59,340 11,849 Feb-20 2,567 118 27,919 487 Feb-20 281 68 1,811 229 Feb-20 30,434 6,838 60,334 14,811 481 Mar-20 2,340 113 17,986 Mar-20 494 19 1,844 174 Mar-20 26,077 6,087 47,704 20,700 2.568 131 20,490 491 563 55 90 Apr-20 49.344 22.953 Apr-20 Apr-20 1,510 26,181 6.200 May-20 May-20 May-20 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

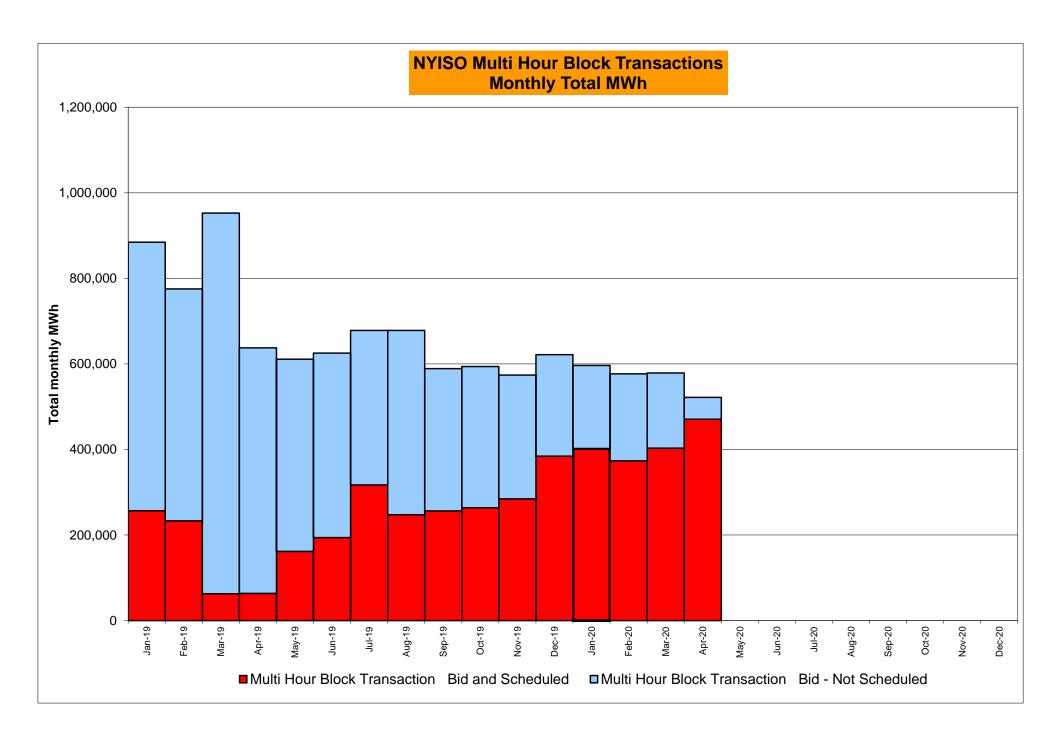
Dec-20

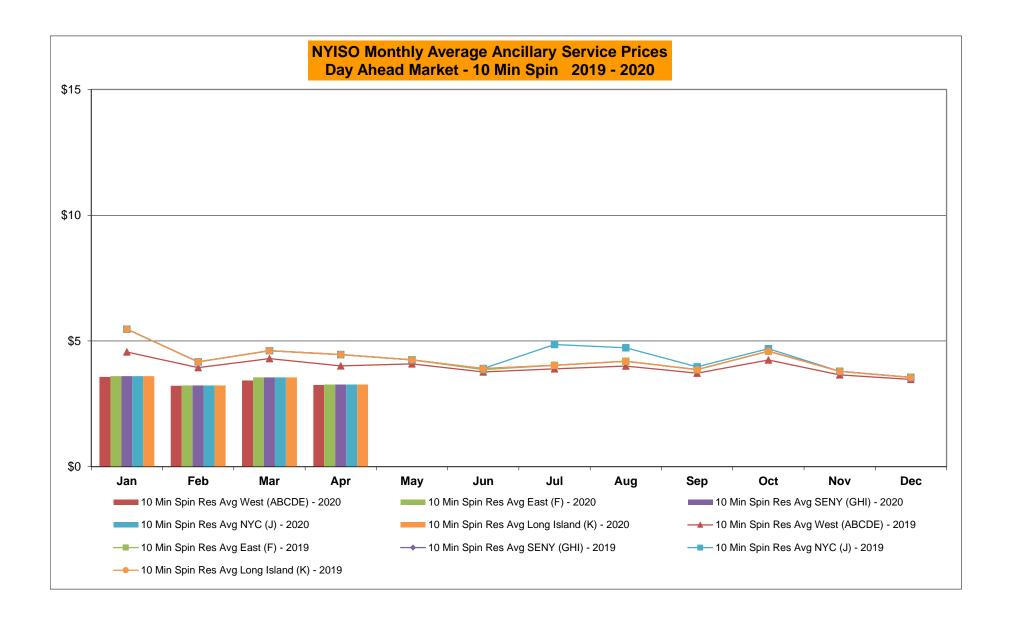
Nov-20

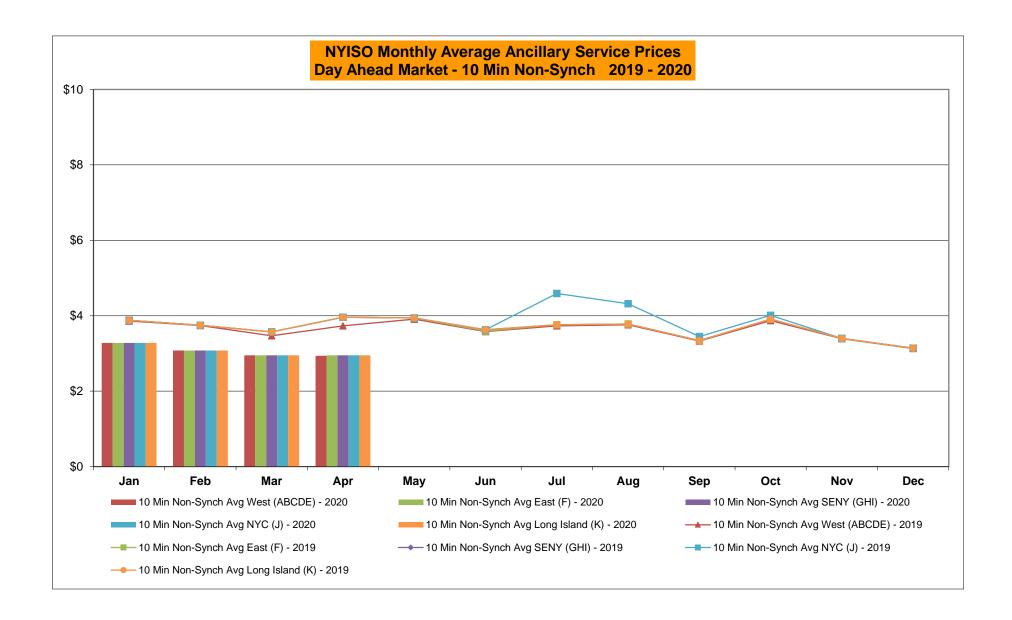
Dec-20

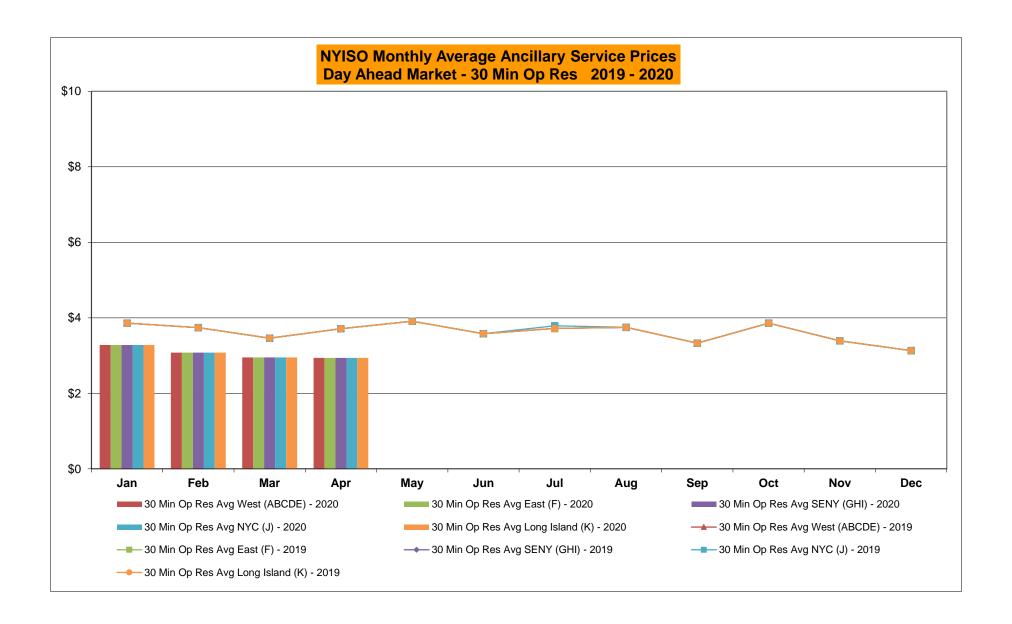
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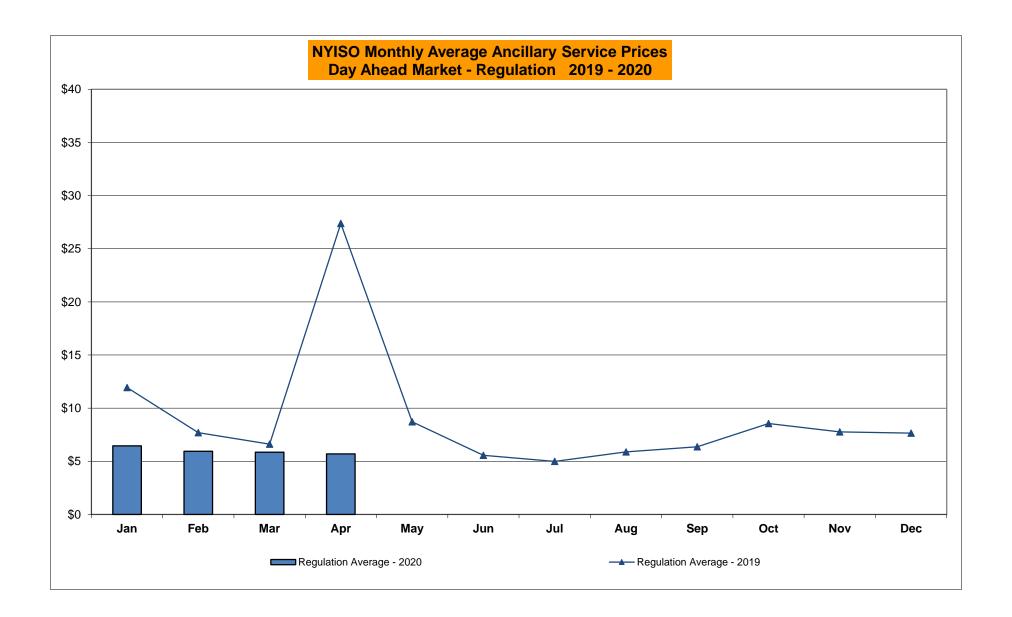
Dec-20

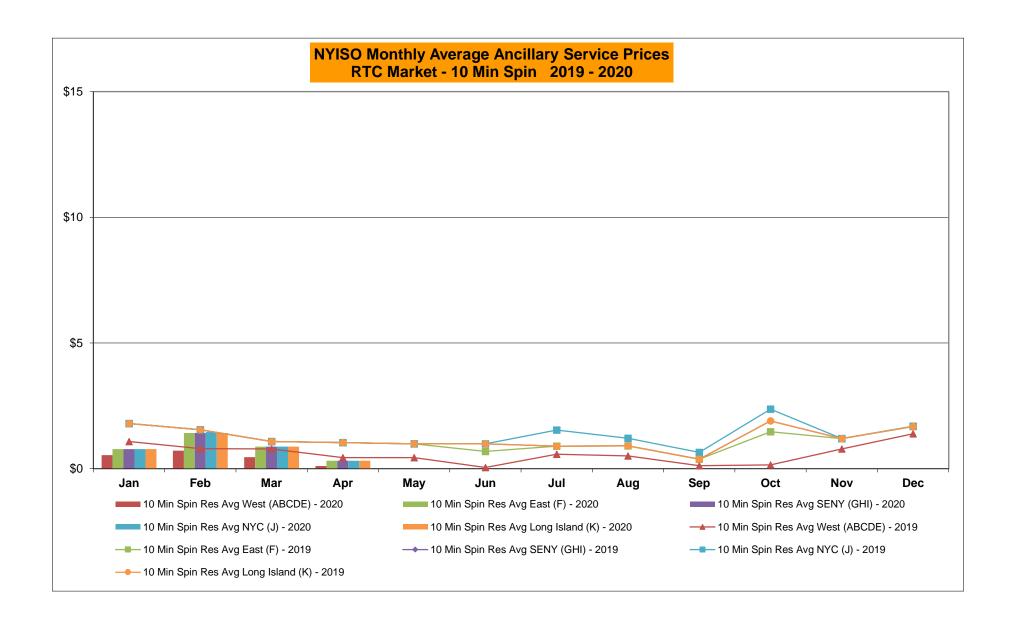


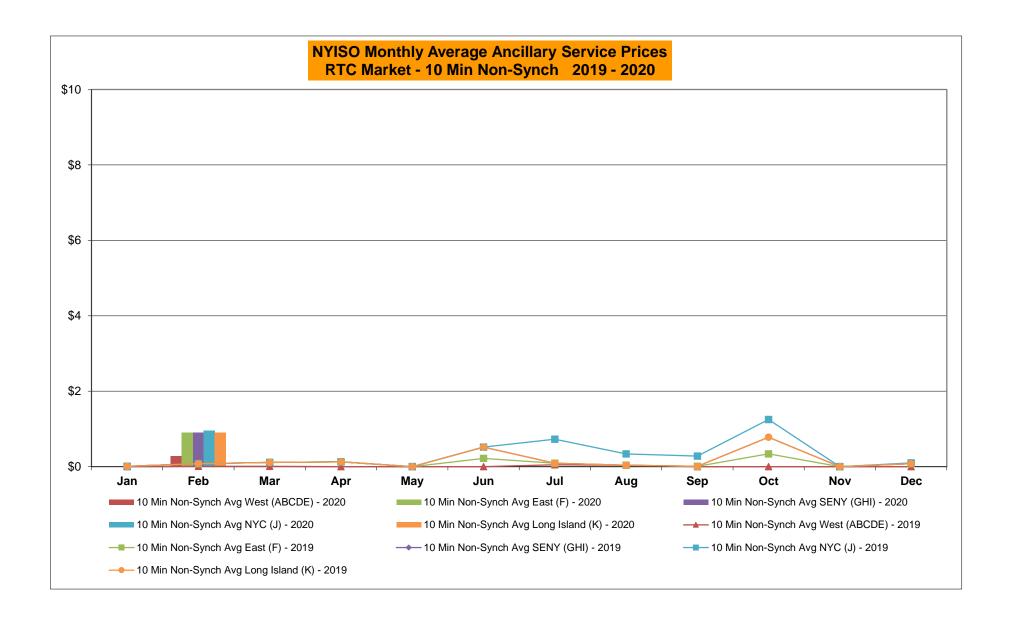


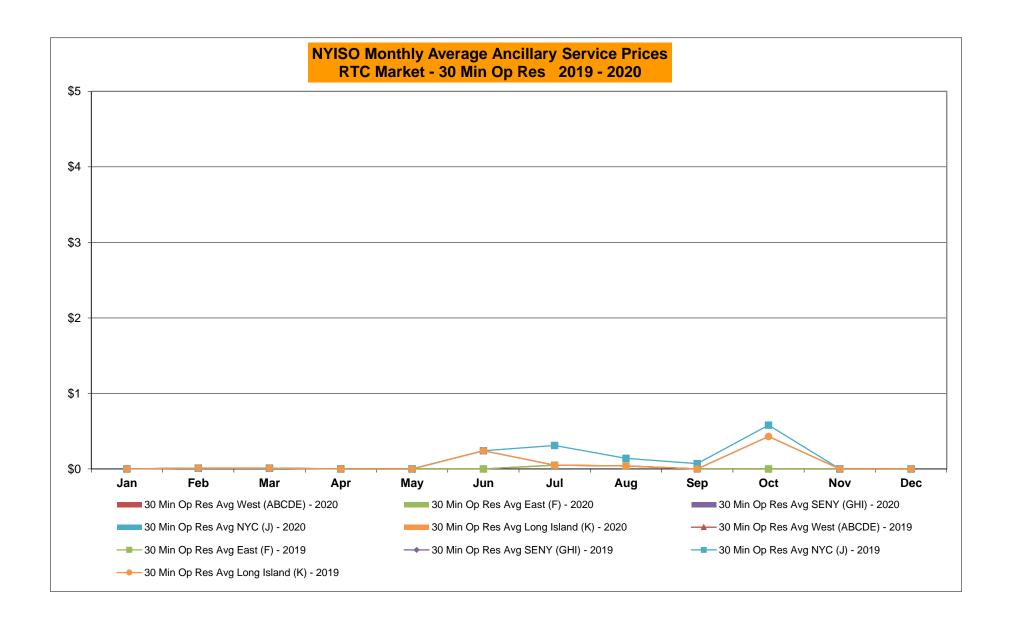


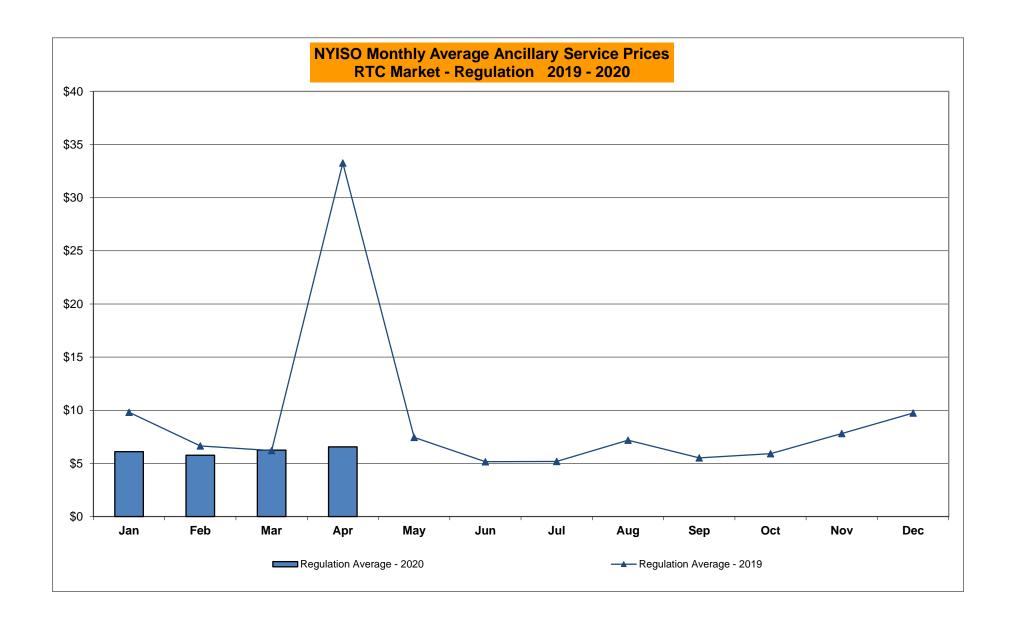


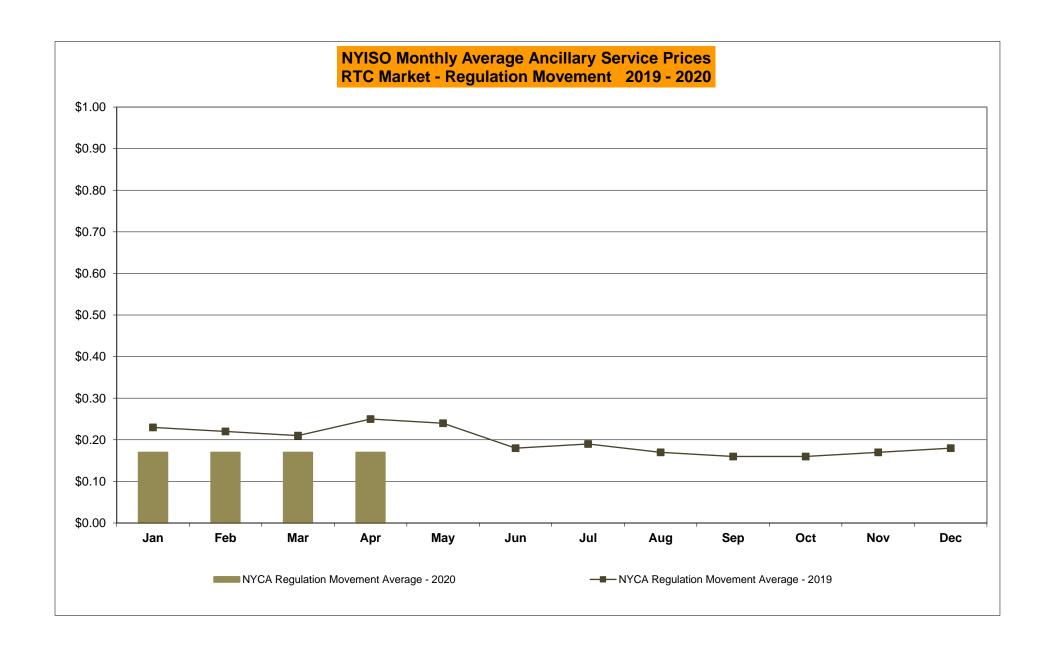


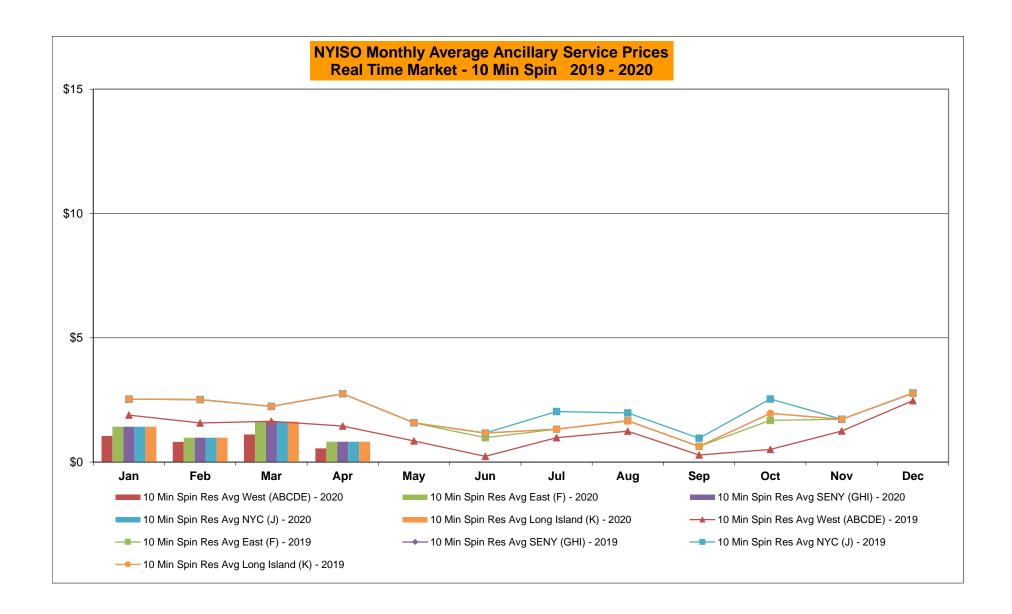


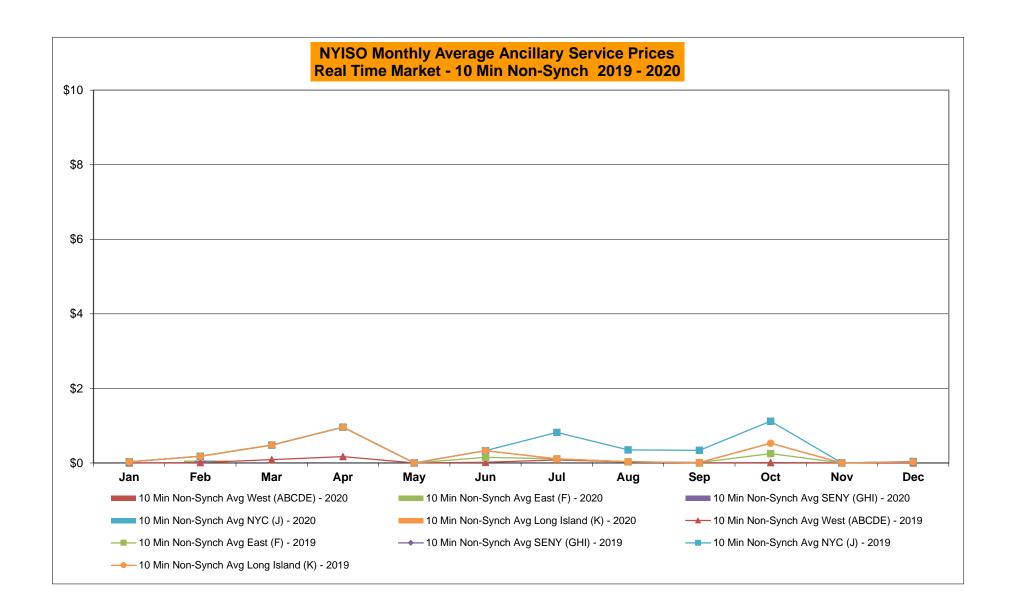


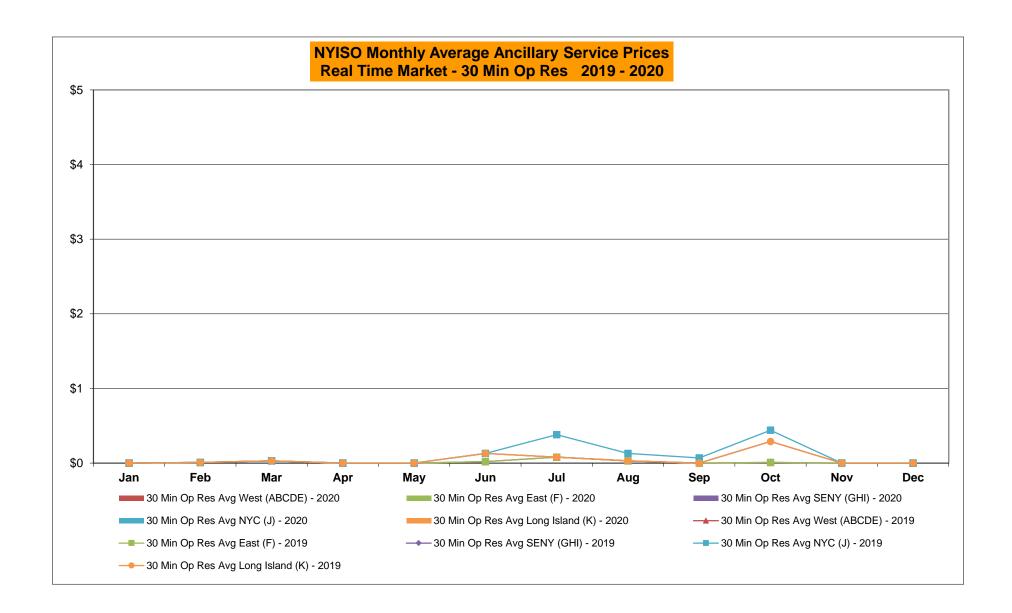


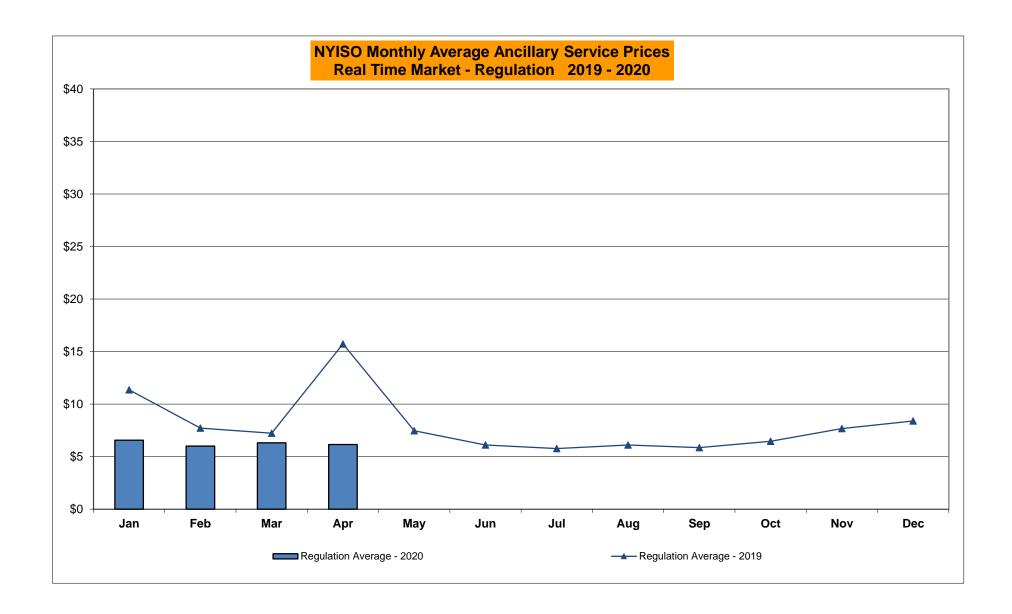


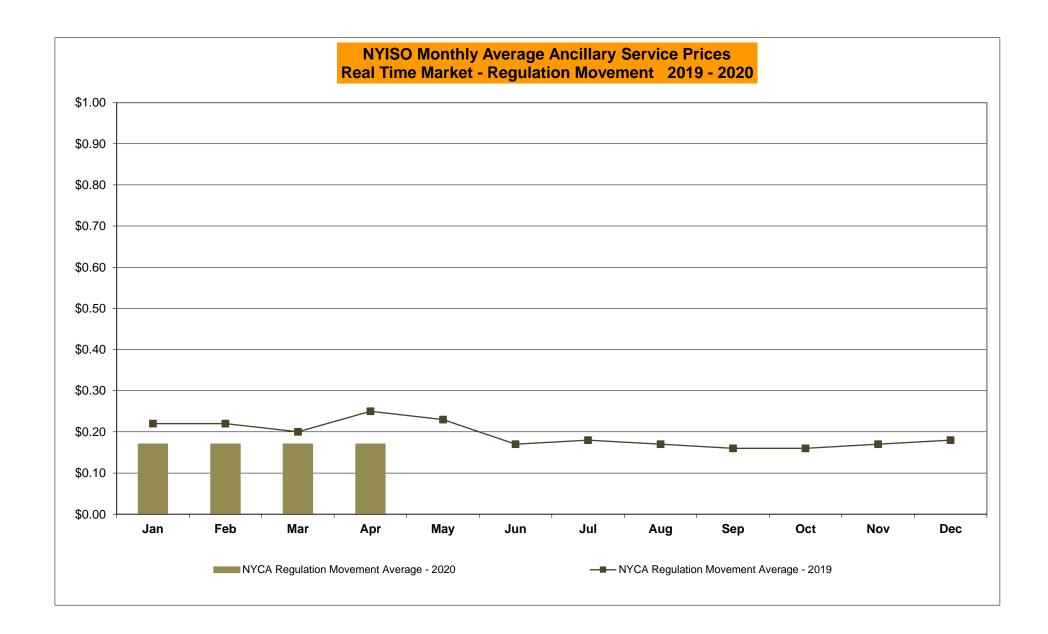












### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - DAM

2020 Day Ahead Market	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27								
10 Min Spin NYC (J)	3.60	3.23	3.55	3.27								
10 Min Spin NTO (0)	3.60	3.23	3.55	3.27								
10 Min Spin East (F)	3.60	3.23	3.55	3.27								
10 Min Spin Last (1)  10 Min Spin West (ABCDE)	3.57	3.22	3.43	3.25								
10 Min Non Synch Long Island (K)	3.28	3.08	2.95	2.95								
10 Min Non Synch NYC (J)	3.28	3.08	2.95	2.95								
10 Min Non Synch SENY (GHI)	3.28	3.08	2.95	2.95								
10 Min Non Synch East (F)	3.28	3.08	2.95	2.95								
10 Min Non Synch West (ABCDE)	3.28	3.08	2.95	2.94								
30 Min Long Island (K)	3.28	3.08	2.95	2.94								
30 Min NYC (J)	3.28	3.08	2.95	2.94								
30 Min SENY (GHI)	3.28	3.08	2.95	2.94								
30 Min East (F)	3.28	3.08	2.95	2.94								
30 Min West (ABCDE)	3.28	3.08	2.95	2.94								
Regulation	6.46	5.94	5.86	5.70								
<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
	<u>January</u> 5.47	February 5.47	<u>March</u> 4.61	<u>April</u> 4.46	<u>May</u> 4.25	<u>June</u> 3.90	<u>July</u> 4.03	<u>August</u> 4.19	September 3.86	October 4.59	November 3.79	December 3.55
Day Ahead Market			· · · · · · · · · · · · · · · · · · ·	•					•			
<u>Day Ahead Market</u> 10 Min Spin Long Island (K)	5.47 5.47 5.47	5.47 5.47 4.17	4.61	4.46 4.46 4.46	4.25 4.25 4.25	3.90 3.90 3.90	4.03 4.86 4.03	4.19 4.73 4.19	3.86 3.97 3.86	4.59	3.79 3.79 3.79	3.55
Day Ahead Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J)	5.47 5.47	5.47 5.47	4.61 4.61	4.46 4.46	4.25 4.25	3.90 3.90	4.03 4.86	4.19 4.73	3.86 3.97	4.59 4.69	3.79 3.79	3.55 3.55
Day Ahead Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	5.47 5.47 5.47	5.47 5.47 4.17	4.61 4.61 4.61	4.46 4.46 4.46 4.46 4.01	4.25 4.25 4.25	3.90 3.90 3.90 3.86 3.77	4.03 4.86 4.03	4.19 4.73 4.19	3.86 3.97 3.86	4.59 4.69 4.59	3.79 3.79 3.79	3.55 3.55 3.55
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)	5.47 5.47 5.47 5.47 4.56 3.88	5.47 5.47 4.17 4.17 3.94 3.88	4.61 4.61 4.61 4.30 3.57	4.46 4.46 4.46 4.46 4.01 3.96	4.25 4.25 4.25 4.25 4.09 3.94	3.90 3.90 3.90 3.86 3.77 3.63	4.03 4.86 4.03 4.03 3.89 3.76	4.19 4.73 4.19 4.19 4.00 3.78	3.86 3.97 3.86 3.86 3.72 3.34	4.59 4.69 4.59 4.59 4.24 3.91	3.79 3.79 3.79 3.79 3.65 3.40	3.55 3.55 3.55 3.55 3.47 3.14
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)	5.47 5.47 5.47 5.47 4.56 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.88	4.61 4.61 4.61 4.30 3.57 3.57	4.46 4.46 4.46 4.01 3.96 3.96	4.25 4.25 4.25 4.25 4.09 3.94 3.94	3.90 3.90 3.90 3.86 3.77 3.63 3.63	4.03 4.86 4.03 4.03 3.89 3.76 4.59	4.19 4.73 4.19 4.19 4.00 3.78 4.32	3.86 3.97 3.86 3.86 3.72 3.34 3.45	4.59 4.69 4.59 4.59 4.24 3.91 4.01	3.79 3.79 3.79 3.65 3.40 3.40	3.55 3.55 3.55 3.55 3.47 3.14 3.14
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.88 3.75	4.61 4.61 4.61 4.30 3.57 3.57 3.57	4.46 4.46 4.46 4.01 3.96 3.96 3.96	4.25 4.25 4.25 4.25 4.09 3.94 3.94 3.94	3.90 3.90 3.90 3.86 3.77 3.63 3.63 3.63	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91	3.79 3.79 3.79 3.65 3.40 3.40 3.40	3.55 3.55 3.55 3.55 3.47 3.14 3.14
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.88 3.75 3.75	4.61 4.61 4.61 4.61 4.30 3.57 3.57 3.57	4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.96	4.25 4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.94	3.90 3.90 3.90 3.86 3.77 3.63 3.63 3.63 3.59	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.91	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.40	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.88 3.75 3.75 3.75	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.47	4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73	4.25 4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.94 3.91	3.90 3.90 3.90 3.86 3.77 3.63 3.63 3.63 3.59 3.59	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.73	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.76	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34 3.34 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.91 3.87	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.14 3.13
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88 3.88	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75 3.74 3.86	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.47 3.47	4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73 3.71	4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.94 3.91 3.91	3.90 3.90 3.86 3.77 3.63 3.63 3.63 3.59 3.58	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.73 3.72	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.76 3.75	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34 3.34 3.33 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.91 3.87 3.86	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.13 3.13
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min NYC (J)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88 3.86 3.86 3.86	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75 3.74 3.86 3.86	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.47 3.46 3.46	4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.96 3.73 3.71 3.71	4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.91 3.91 3.91	3.90 3.90 3.86 3.77 3.63 3.63 3.63 3.59 3.58 3.58	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.73 3.72 3.79	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.76 3.75 3.75	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34 3.34 3.33 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.87 3.86 3.86	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39 3.39 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.13 3.13
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min NYC (J)  30 Min SENY (GHI)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88 3.86 3.86 3.86	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75 3.75 3.74 3.86 3.86 3.74	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.47 3.46 3.46 3.46	4.46 4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73 3.71 3.71	4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.91 3.91 3.91 3.91	3.90 3.90 3.86 3.77 3.63 3.63 3.63 3.59 3.58 3.58 3.58	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.72 3.79 3.72	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.75 3.75 3.75	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34 3.33 3.33 3.33 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.87 3.86 3.86 3.86	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39 3.39 3.39 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.13 3.13 3.13
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min NYC (J)  30 Min SENY (GHI)  30 Min East (F)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88 3.86 3.86 3.86 3.8	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75 3.74 3.86 3.86 3.74 3.74	4.61 4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.47 3.46 3.46 3.46 3.46	4.46 4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73 3.71 3.71 3.71	4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.91 3.91 3.91 3.91 3.91 3.91	3.90 3.90 3.86 3.77 3.63 3.63 3.63 3.59 3.58 3.58 3.58 3.58	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.73 3.72 3.79 3.72	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.75 3.75 3.75 3.75	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34 3.33 3.33 3.33 3.33 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.91 3.86 3.86 3.86 3.86	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39 3.39 3.39 3.39 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.13 3.13 3.13 3.13
Day Ahead Market  10 Min Spin Long Island (K)  10 Min Spin NYC (J)  10 Min Spin SENY (GHI)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch Long Island (K)  10 Min Non Synch NYC (J)  10 Min Non Synch SENY (GHI)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min Long Island (K)  30 Min NYC (J)  30 Min SENY (GHI)	5.47 5.47 5.47 5.47 4.56 3.88 3.88 3.88 3.88 3.86 3.86 3.86	5.47 5.47 4.17 4.17 3.94 3.88 3.75 3.75 3.75 3.74 3.86 3.86 3.74	4.61 4.61 4.61 4.30 3.57 3.57 3.57 3.47 3.46 3.46 3.46	4.46 4.46 4.46 4.46 4.01 3.96 3.96 3.96 3.73 3.71 3.71	4.25 4.25 4.25 4.09 3.94 3.94 3.94 3.91 3.91 3.91 3.91	3.90 3.90 3.86 3.77 3.63 3.63 3.63 3.59 3.58 3.58 3.58	4.03 4.86 4.03 4.03 3.89 3.76 4.59 3.76 3.76 3.72 3.79 3.72	4.19 4.73 4.19 4.19 4.00 3.78 4.32 3.78 3.78 3.75 3.75 3.75	3.86 3.97 3.86 3.86 3.72 3.34 3.45 3.34 3.33 3.33 3.33 3.33	4.59 4.69 4.59 4.59 4.24 3.91 4.01 3.91 3.87 3.86 3.86 3.86	3.79 3.79 3.79 3.65 3.40 3.40 3.40 3.39 3.39 3.39 3.39	3.55 3.55 3.55 3.55 3.47 3.14 3.14 3.14 3.13 3.13 3.13

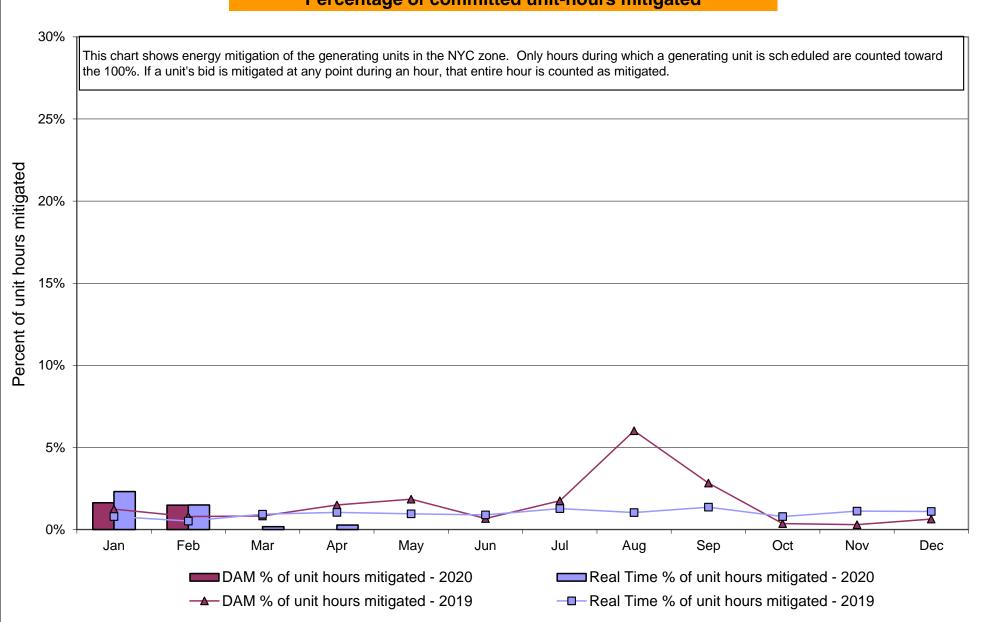
## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RTC

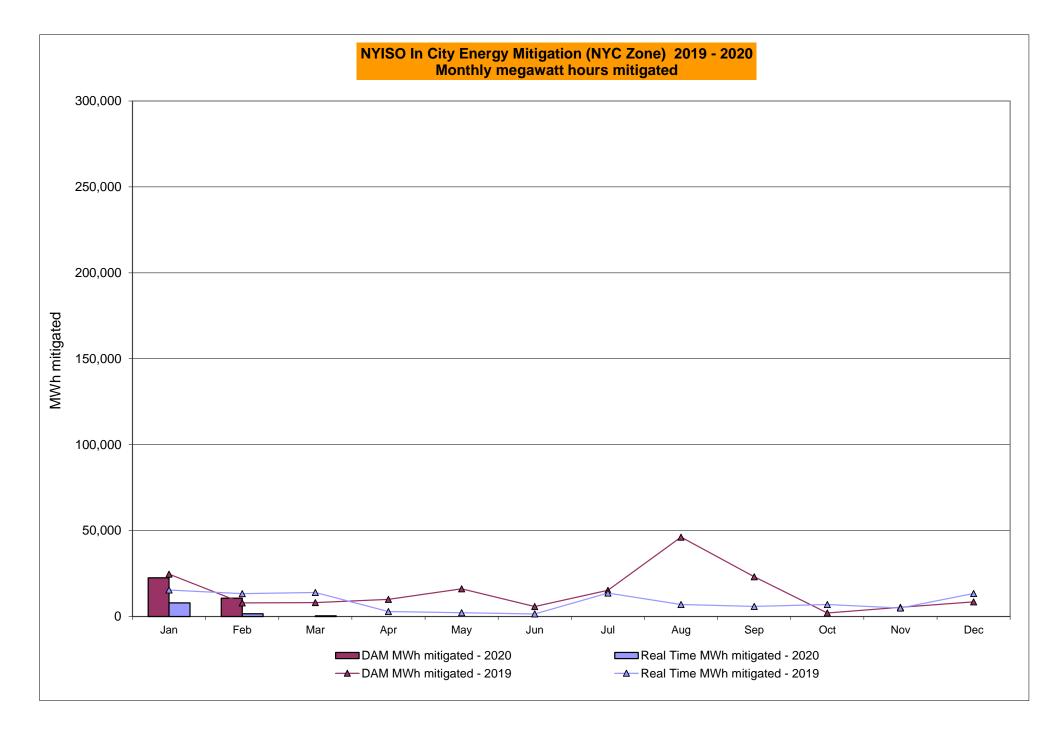
										•		
<u>2020</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
RTC Market												
10 Min Spin Long Island (K)	0.78	1.42	0.88	0.32								
10 Min Spin NYC (J)	0.78	1.46	0.88	0.32								
10 Min Spin SENY (GHI)	0.78	1.42	0.88	0.32								
10 Min Spin East (F)	0.78	1.42	0.88	0.32								
10 Min Spin West (ABCDE)	0.54	0.72	0.46	0.11								
10 Min Non Synch Long Island (K)	0.00	0.91	0.00	0.00								
10 Min Non Synch NYC (J)	0.00	0.95	0.00	0.00								
10 Min Non Synch SENY (GHI)	0.00	0.91	0.00	0.00								
10 Min Non Synch East (F)	0.00	0.91	0.00	0.00								
10 Min Non Synch West (ABCDE)	0.00	0.28	0.00	0.00								
30 Min Long Island (K)	0.00	0.01	0.00	0.00								
30 Min NYC (J)	0.00	0.01	0.00	0.00								
30 Min SENY (GHI)	0.00	0.01	0.00	0.00								
30 Min East (F)	0.00	0.01	0.00	0.00								
30 Min West (ABCDE)	0.00	0.01	0.00	0.00								
Regulation	6.11	5.77	6.25	6.56								
NYCA Regulation Movement	0.17	0.17	0.17	0.17								
<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
RTC Market	·				-				·			
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
RTC Market  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	0.90 1.54	0.91 1.21	0.38 0.65	1.90 2.37	1.20 1.20	1.68 1.69
RTC Market  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	0.90 1.54 0.90	0.91 1.21 0.91	0.38 0.65 0.38	1.90 2.37 1.90	1.20 1.20 1.20	1.68 1.69 1.68
RTC Market  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	0.90 1.54 0.90 0.90	0.91 1.21 0.91 0.91	0.38 0.65 0.38 0.38	1.90 2.37 1.90 1.47	1.20 1.20 1.20 1.20	1.68 1.69 1.68 1.68
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	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 0.44	0.99 0.99 0.99 0.69 0.05	0.90 1.54 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	1.90 2.37 1.90 1.47 0.15	1.20 1.20 1.20 1.20 0.79	1.68 1.69 1.68 1.68 1.39
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K)	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 0.99 0.69 0.05 0.52	0.90 1.54 0.90 0.90 0.58 0.09	0.91 1.21 0.91 0.91 0.51 0.04	0.38 0.65 0.38 0.38 0.12 0.01	1.90 2.37 1.90 1.47 0.15 0.78	1.20 1.20 1.20 1.20 0.79 0.00	1.68 1.69 1.68 1.68 1.39 0.08
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J)	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	1.08 1.08 1.08 1.08 0.79 0.11	1.04 1.04 1.04 1.04 0.44 0.13 0.13	0.99 0.99 0.99 0.99 0.44 0.00	0.99 0.99 0.99 0.69 0.05 0.52	0.90 1.54 0.90 0.90 0.58 0.09 0.73	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	1.90 2.37 1.90 1.47 0.15 0.78 1.25	1.20 1.20 1.20 1.20 0.79 0.00 0.00	1.68 1.69 1.68 1.68 1.39 0.08 0.10
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI)	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 0.99 0.69 0.05 0.52 0.52	0.90 1.54 0.90 0.90 0.58 0.09 0.73 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	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78	1.20 1.20 1.20 1.20 0.79 0.00 0.00	1.68 1.69 1.68 1.68 1.39 0.08 0.10
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F)	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	1.04 1.04 1.04 1.04 0.44 0.13 0.13 0.13	0.99 0.99 0.99 0.99 0.44 0.00 0.00 0.00	0.99 0.99 0.69 0.65 0.52 0.52 0.52 0.22	0.90 1.54 0.90 0.90 0.58 0.09 0.73 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	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78 0.34	1.20 1.20 1.20 1.20 0.79 0.00 0.00 0.00	1.68 1.69 1.68 1.68 1.39 0.08 0.10 0.08
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	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	1.04 1.04 1.04 1.04 0.44 0.13 0.13 0.13 0.13	0.99 0.99 0.99 0.99 0.44 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.52 0.52 0.52 0.22 0.00	0.90 1.54 0.90 0.90 0.58 0.09 0.73 0.09 0.09	0.91 1.21 0.91 0.91 0.51 0.04 0.34 0.04 0.04 0.04	0.38 0.65 0.38 0.38 0.12 0.01 0.28 0.01 0.01 0.00	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78 0.34 0.00	1.20 1.20 1.20 1.20 0.79 0.00 0.00 0.00 0.00	1.68 1.69 1.68 1.68 1.39 0.08 0.10 0.08 0.08
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K)	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 0.01	1.04 1.04 1.04 1.04 0.44 0.13 0.13 0.13 0.13 0.00	0.99 0.99 0.99 0.99 0.44 0.00 0.00 0.00	0.99 0.99 0.99 0.69 0.05 0.52 0.52 0.52 0.22 0.00	0.90 1.54 0.90 0.90 0.58 0.09 0.73 0.09 0.09 0.05	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 0.38 0.12 0.01 0.28 0.01 0.01 0.00 0.00	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78 0.34 0.00 0.43	1.20 1.20 1.20 1.20 0.79 0.00 0.00 0.00 0.00 0.00	1.68 1.69 1.68 1.68 1.39 0.08 0.10 0.08 0.08 0.00
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J)	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	1.08 1.08 1.08 1.08 0.79 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 0.00 0.00	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00	0.99 0.99 0.99 0.69 0.05 0.52 0.52 0.52 0.22 0.00 0.24	0.90 1.54 0.90 0.90 0.58 0.09 0.73 0.09 0.09 0.05 0.05	0.91 1.21 0.91 0.91 0.51 0.04 0.34 0.04 0.04 0.04 0.04 0.04	0.38 0.65 0.38 0.38 0.12 0.01 0.28 0.01 0.01 0.00 0.00 0.00	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78 0.34 0.00 0.43 0.58	1.20 1.20 1.20 1.20 0.79 0.00 0.00 0.00 0.00 0.00 0.00	1.68 1.69 1.68 1.68 1.39 0.08 0.10 0.08 0.00 0.00
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI)	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	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 0.00 0.00 0.00	0.99 0.99 0.99 0.99 0.44 0.00 0.00 0.00	0.99 0.99 0.99 0.69 0.52 0.52 0.52 0.22 0.00 0.24 0.24	0.90 1.54 0.90 0.90 0.58 0.09 0.73 0.09 0.09 0.05 0.05	0.91 1.21 0.91 0.91 0.51 0.04 0.34 0.04 0.04 0.04 0.04 0.14 0.04	0.38 0.65 0.38 0.38 0.12 0.01 0.28 0.01 0.00 0.00 0.00 0.07 0.00	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78 0.34 0.00 0.43 0.58 0.43	1.20 1.20 1.20 1.20 0.79 0.00 0.00 0.00 0.00 0.00 0.00	1.68 1.69 1.68 1.68 1.39 0.08 0.10 0.08 0.00 0.00 0.00
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F)	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 0.08 0.01 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 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	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.52 0.52 0.52 0.22 0.00 0.24 0.24 0.24 0.00	0.90 1.54 0.90 0.90 0.58 0.09 0.73 0.09 0.09 0.05 0.05 0.31 0.05	0.91 1.21 0.91 0.91 0.51 0.04 0.34 0.04 0.04 0.04 0.14 0.04 0.04	0.38 0.65 0.38 0.12 0.01 0.28 0.01 0.01 0.00 0.00 0.00 0.00 0.00	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78 0.34 0.00 0.43 0.58 0.43 0.00	1.20 1.20 1.20 1.20 0.79 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.68 1.69 1.68 1.68 1.39 0.08 0.10 0.08 0.00 0.00 0.00 0.00
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F) 30 Min 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 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 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	0.99 0.99 0.99 0.99 0.44 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.52 0.52 0.52 0.22 0.00 0.24 0.24 0.24 0.00 0.00	0.90 1.54 0.90 0.90 0.58 0.09 0.73 0.09 0.05 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 0.04 0.0	0.38 0.65 0.38 0.12 0.01 0.28 0.01 0.00 0.00 0.00 0.00 0.00 0.00	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78 0.34 0.00 0.43 0.58 0.43 0.00 0.00	1.20 1.20 1.20 1.20 0.79 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.68 1.69 1.68 1.68 1.39 0.08 0.10 0.08 0.00 0.00 0.00 0.00 0.00
RTC Market  10 Min Spin Long Island (K) 10 Min Spin NYC (J) 10 Min Spin SENY (GHI) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch Long Island (K) 10 Min Non Synch NYC (J) 10 Min Non Synch SENY (GHI) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F)	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 0.08 0.01 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 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	0.99 0.99 0.99 0.44 0.00 0.00 0.00 0.00	0.99 0.99 0.69 0.05 0.52 0.52 0.52 0.22 0.00 0.24 0.24 0.24 0.00	0.90 1.54 0.90 0.90 0.58 0.09 0.73 0.09 0.09 0.05 0.05 0.31 0.05	0.91 1.21 0.91 0.91 0.51 0.04 0.34 0.04 0.04 0.04 0.14 0.04 0.04	0.38 0.65 0.38 0.12 0.01 0.28 0.01 0.01 0.00 0.00 0.00 0.00 0.00	1.90 2.37 1.90 1.47 0.15 0.78 1.25 0.78 0.34 0.00 0.43 0.58 0.43 0.00	1.20 1.20 1.20 1.20 0.79 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.68 1.69 1.68 1.68 1.39 0.08 0.10 0.08 0.00 0.00 0.00 0.00

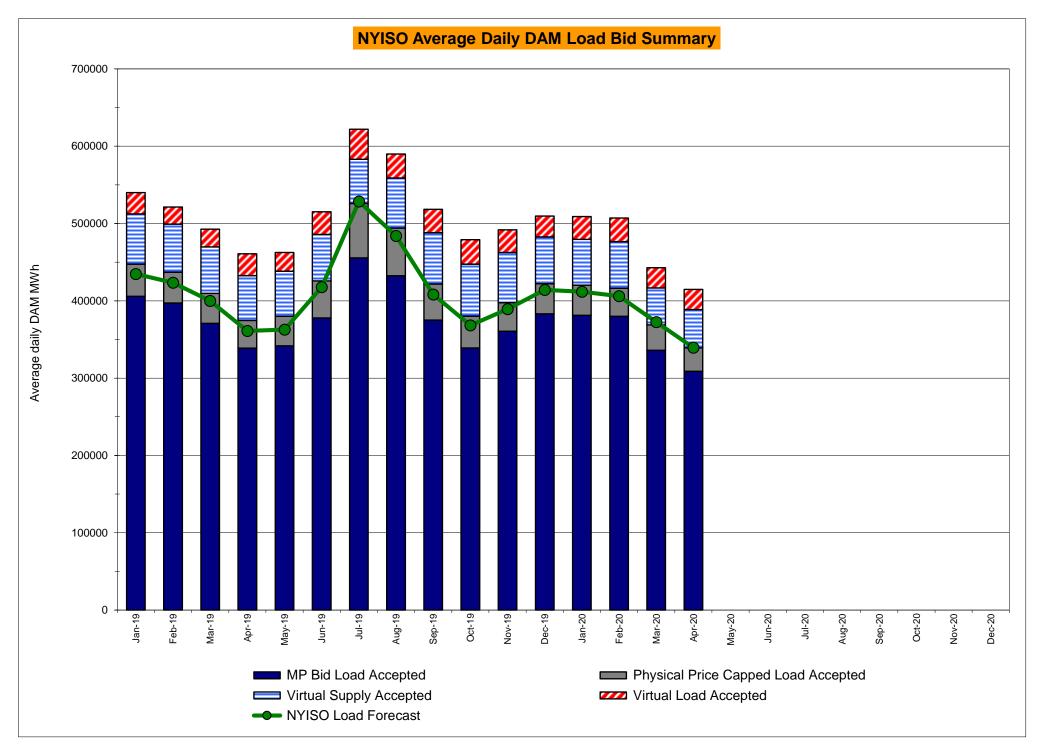
## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

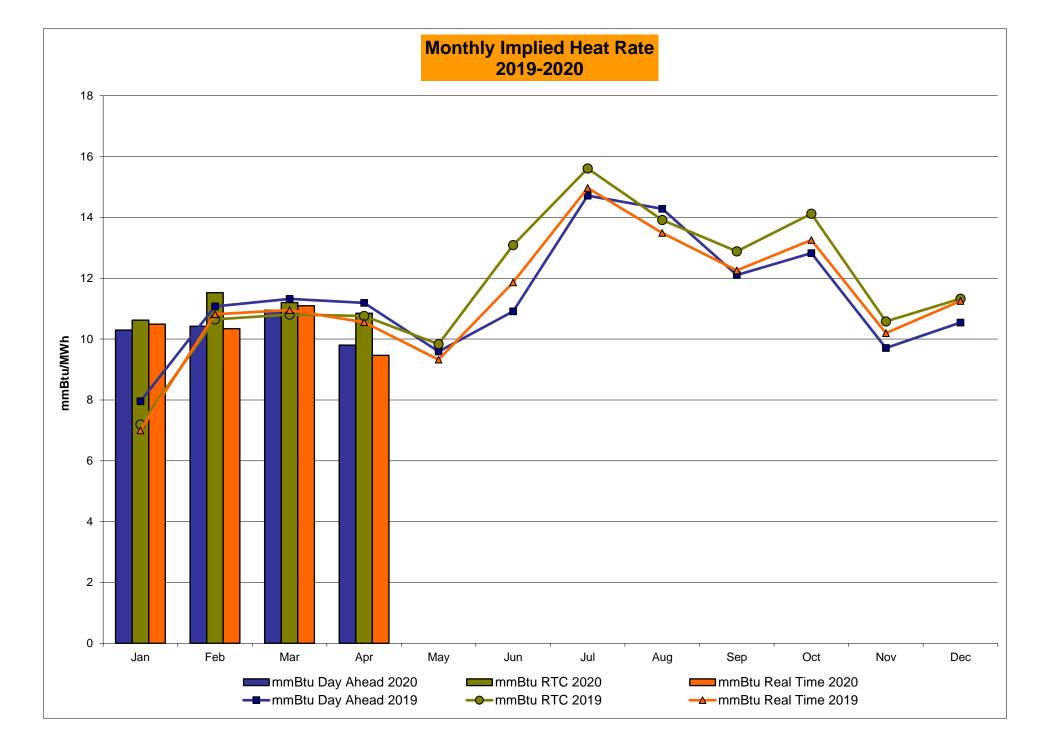
<u>2020</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Real Time Market												
10 Min Spin Long Island (K)	1.42	0.98	1.62	0.82								
10 Min Spin NYC (J)	1.42	0.98	1.62	0.82								
10 Min Spin SENY (GHI)	1.42	0.98	1.62	0.82								
10 Min Spin East (F)	1.42	0.98	1.62	0.82								
10 Min Spin West (ABCDE)	1.05	0.81	1.11	0.55								
10 Min Non Synch Long Island (K)	0.00	0.06	0.00	0.00								
10 Min Non Synch NYC (J)	0.00	0.06	0.00	0.00								
10 Min Non Synch SENY (GHI)	0.00	0.06	0.00	0.00								
10 Min Non Synch East (F)	0.00	0.06	0.00	0.00								
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.00								
30 Min Long Island (K)	0.00	0.00	0.00	0.00								
30 Min NYC (J)	0.00	0.00	0.00	0.00								
30 Min SENY (GHI)	0.00	0.00	0.00	0.00								
30 Min East (F)	0.00	0.00	0.00	0.00								
30 Min West (ABCDE)	0.00	0.00	0.00	0.00								
Regulation	6.57	6.00	6.32	6.16								
NYCA Regulation Movement	0.17	0.17	0.17	0.17								
, and the second												
<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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	1.96	1.72	2.77
10 Min Spin NYC (J)	2.53	2.53	2.24	2.75	1.58	1.17	2.03	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	0.33	0.11	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	0.33	0.82	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	0.13	0.08	0.03	0.00	0.29	0.00	0.00
30 Min NYC (J)	0.00	0.00	0.03	0.00	0.00	0.13	0.38	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 (ABCDE)	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

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

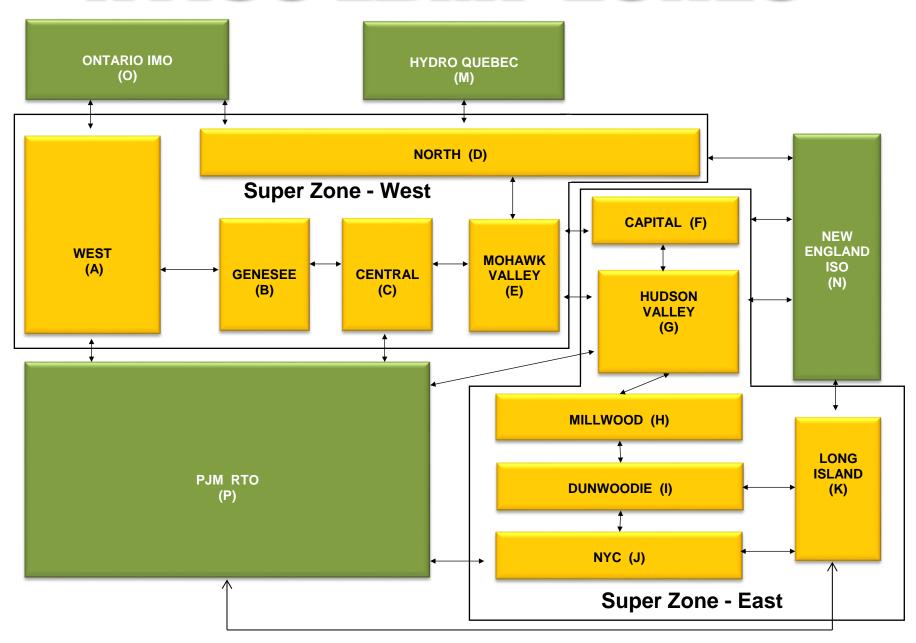








# NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 5/7/2020 1:10 PM

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

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

# 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







# Summary Description of Upcoming Regulatory Compliance Filings, Recently Submitted Filings and Issued Orders on NYISO Matters

**Upcoming Compliance Filings** 

Filing Due Date	Upcoming Compliance Filings (Description)	Docket Number

**Recently Issued Orders** 

Filing Date	Filing Summary (Order Issued)	Docket Number	Order Date	Order Summary
02/27/2020	NYISO 205 filing re: change the RMR deactivation process to the short term reliability planning process	ER20-1105-000	04/30/2020	Order accepted revisions effective 05/01/2020, as requested
03/11/2020	NYISO filing re: notice of compliance plan and request for conditional waiver to address any potential technical non-compliance with its tariff associated with the exemption of new Special Case Resources from 02/2017 – 02/20/2020	EL16-92-002 ER17-996-001		Order clarified the effective Services Tariff language, directed NYISO to submit a compliance filing within 45 days, to be effective as of 05/12/2020, and found a waiver unnecessary
05/04/2020	NYISO filing re: request for waiver of the timing requirement in OATT Section 6.1.2.5 to allow the use of revenue from non-physical market activity to recover expected 2020 Rate Schedule 1 shortfall beginning in the current year		05/14/2020	Order granted waiver request

**Recently Submitted Filings** 

Filing	Filing Summary	Docket
Date		Number
	NYISO compliance filing re: revisions directed by Order Nos. 845 and 845-A which amended the pro forma Large Generator Interconnection Agreement and Large Generator Interconnection Procedures	ER19-1949-001
04/30/2020	NYISO 205 filing re: enhancements to the Energy Storage Resource participation model	ER20-1696-000
	NYISO 205 filing re: NYISO 205 filing re: enhancements to the "Part A Exemption Test" under the NYISO's buyer-side capacity market power mitigation measures	ER20-1718-000
	NYISO filing re: request for waiver of the timing requirement in OATT Section 6.1.2.5 to allow the use of revenue from non-physical market activity to recover expected 2020 Rate Schedule 1 shortfall beginning in the current year	ER20-1767-000
	NYISO filing re: submission of corrected tariff records in Docket No. ER20-1105-000 to include inadvertently omitted tariff revisions that the NYISO had proposed in Docket No. ER20-1049-000	ER20-1105-000
05/13/2020	NYISO filing re: answer to certain arguments in the comments and protests filed in response to the NYISO's Renewable Exemption Limit proposal	ER16-1404-002