

# NYISO CEO/COO Report

**Rich Dewey** President & Chief Executive Officer

**Rick Gonzales** Senior Vice President & Chief Operating Officer

**Management Committee Meeting:** 

October 27, 2021 Rensselaer, NY

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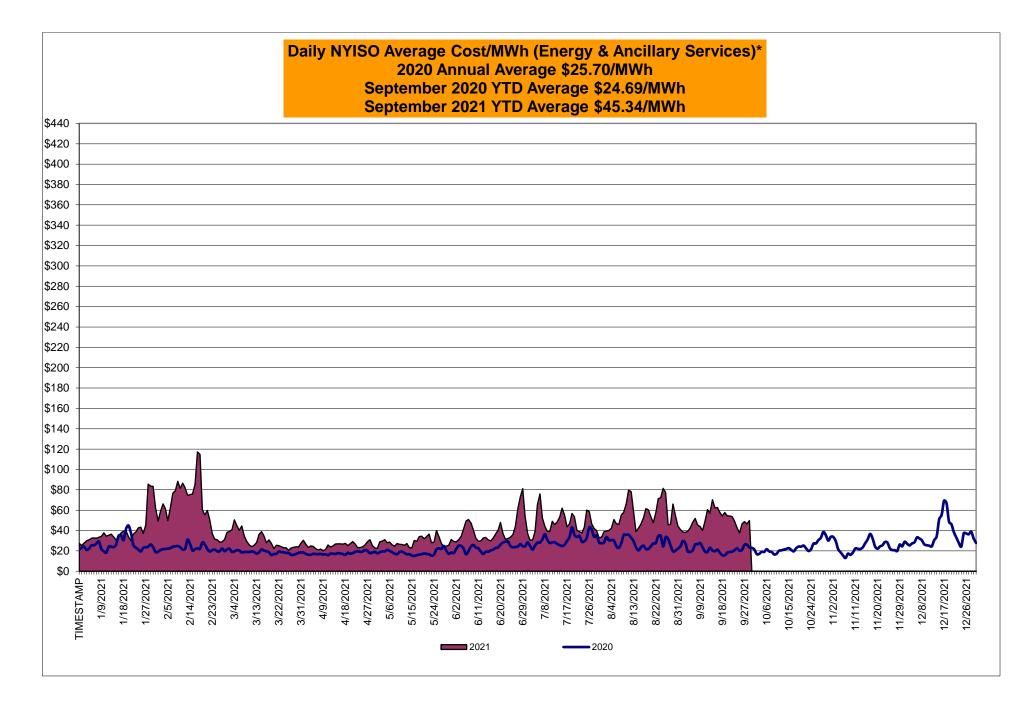
# NYISO CEO/COO Report

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



# Market Performance Highlights September 2021

- LBMP for September is \$47.68/MWh; lower than \$55.48/MWh in August 2021 and higher than \$20.52/MWh in September 2020.
  - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are lower compared to August.
- September 2021 average year-to-date monthly cost of \$45.34/MWh is an 84% increase from \$24.69/MWh in September 2020.
- Average daily sendout is 420 GWh/day in September; lower than 504 GWh/day in August 2021 and higher than 408 GWh/day in September 2020.
- Natural gas prices and distillate prices are higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$4.27/MMBtu, up from \$3.75/MMBtu in August.
  - Natural gas prices are up 241.7% year-over-year.
  - Jet Kerosene Gulf Coast was \$14.74/MMBtu, up from \$13.43/MMBtu in August.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$15.65/MMBtu, up from \$14.75/MMBtu in August.
  - Distillate prices are up 95.4% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is \$0.00/MWh; higher than (\$0.81)/MWh in August.
    - Local Reliability Share is \$0.78/MWh, higher than \$0.33/MWh in August.
    - Statewide Share is (\$0.78)/MWh, higher than (\$1.14)/MWh in August.
  - TSA \$ per NYC MWh is \$0.56/MWh.
- Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than August.

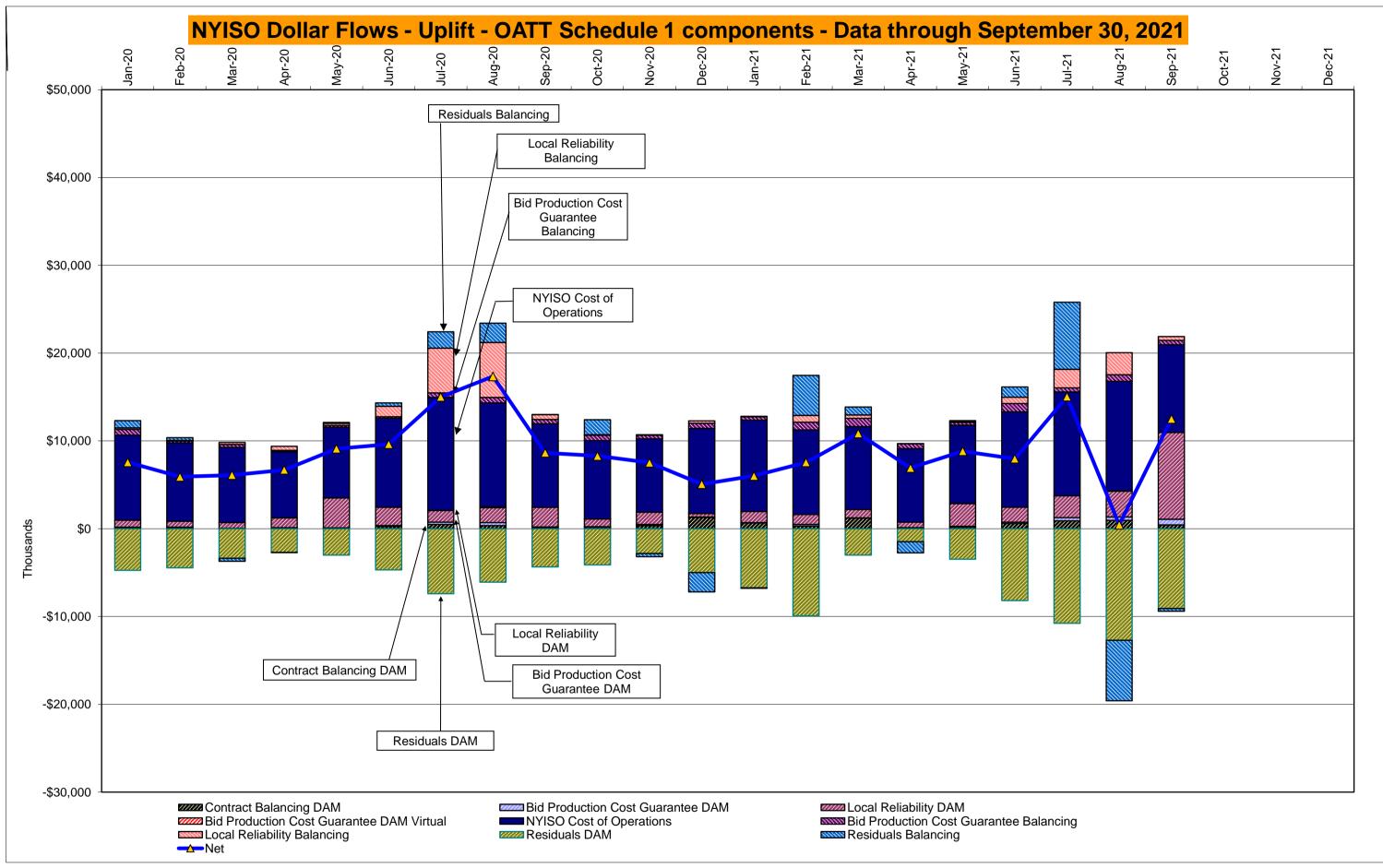


\* Excludes ICAP payments.

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2021	<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>	November	<u>December</u>
LBMP	37.83	63.70	28.59	22.79	25.72	39.37	45.16	55.48	47.68			
NTAC	1.35	1.20	1.26	1.54	2.09	2.05	2.01	1.37	1.23			
Reserve	0.49	0.81	0.57	0.56	0.54	0.45	0.44	0.44	0.50			
Regulation	0.07	0.13	0.09	0.10	0.08	0.07	0.06	0.05	0.09			
NYISO Cost of Operations	0.74	0.74	0.74	0.74	0.76	0.76	0.76	0.76	0.75			
FERC Fee Recovery	0.08	0.09	0.09	0.11	0.10	0.08	0.07	0.06	0.08			
Uplift	(0.31)	(0.15)	0.11	(0.12)	(0.19)	(0.50)	(0.09)	(0.81)	0.00			
Uplift: Local Reliability Share	0.09	0.15	0.11	0.06	0.22	0.17	0.30	0.33	0.78			
Uplift: Statewide Share	(0.40)	(0.30)	0.00	(0.18)	(0.41)	(0.68)	(0.39)	(1.14)	(0.78)			
Voltage Support and Black Start	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44			
Avg Monthly Cost	40.61	66.87	31.81	26.06	29.45	42.65	48.79	57.73	50.70			
Avg YTD Cost	40.69	52.99	46.57	42.41	40.10	40.59	42.05	44.63	45.34			
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.52	0.90	0.93	0.24	0.56			
2020	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
LBMP	24.77	21.11	17.11	15.77	16.14	21.36	28.86	26.13	20.52	20.90	22.57	33.70
NTAC	0.91	0.70	0.86	0.91	1.05	0.95	1.24	1.03	0.78	0.84	1.05	1.35
Reserve	0.46	0.43	0.47	0.50	0.53	0.45	0.39	0.39	0.42	0.61	0.51	0.49
Regulation	0.09	0.08	0.09	0.08	0.10	0.08	0.06	0.07	0.09	0.11	0.09	0.08
NYISO Cost of Operations	0.68	0.69	0.68	0.66	0.71	0.74	0.76	0.75	0.74	0.73	0.69	0.70
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.11	0.09	0.06	0.07	0.09	0.10	0.10	0.08
Uplift	(0.15)	(0.23)	(0.19)	(0.08)	0.09	(0.05)	0.07	0.17	(0.07)	(0.05)	(0.07)	(0.33)
Uplift: Local Reliability Share	0.07	0.06	0.07	0.14	0.32	0.24	0.38	0.50	0.22	0.08	0.12	0.05
Uplift: Statewide Share	(0.22)	(0.29)	(0.26)	(0.21)	(0.23)	(0.29)	(0.31)	(0.33)	(0.28)	(0.13)	(0.19)	(0.38)
Voltage Support and Black Start	0.44	0.44	0.44	0.43	0.45	0.45	0.46	0.46	0.45	0.45	0.44	0.45
Avg Monthly Cost	27.29	23.32	19.55	18.38	19.16	24.09	31.91	29.07	23.03	23.70	25.40	36.52
Avg YTD Cost	27.29	25.40	23.48	22.38	21.82	22.21	24.11	24.88	24.69	24.62	24.68	25.70
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.04	0.18	0.54	0.00	0.00	0.00	0.00

#### NYISO Average Cost/MWh (Energy and Ancillary Services) \*

from the LBMP Customer point of view



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches. DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart. DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

#### **NYISO Markets Transactions**

<u>2021</u>	January	February	March	April	May	June	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
Day Ahead Market MWh	14,108,848	13,325,329	12,843,278	11,204,262	11,854,214	14,120,662	15,843,724	16,032,238		0010001		<u>D 000111001</u>
	60%	59%	56%	55%	56%	61%	65%	64%	61%			
DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	5%	59% 4%	3%	2%	2%	3%	2%	4%	3%			
DAM External TC LBMF Energy Sales DAM Bilateral - Internal Bilaterals	31%	4 % 30%	32%	2 <i>/</i> ° 35%	2 <i>/</i> <sup>0</sup> 35%	29%	27%	4 % 26%	29%			
DAM Bilateral - Importi/Non-LBMP Market Bilaterals	1%	30 <i>%</i> 4%	32 % 4%	5%	33 <i>%</i> 4%	29 <i>%</i> 4%	3%	20%	29 <i>%</i> 4%			
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	4 % 2%	4 % 2%	5 % 2%	4 % 2%	4 % 1%	3 <i>%</i> 1%	3 <i>%</i> 1%	4 % 2%			
DAM Bilateral - Wheel Through Bilaterals	2 % 2%	2 %	2 %	2 % 2%	2 % 2%	2%	2%	2%	2 % 2%			
Balancing Energy Market MWh	29,179	-308,157	-70,279	30,603	-36,350	247,874	-367,232	454,982	543,392			
Balancing Energy LSE Internal LBMP Energy Sales	-215%	-151%	-367%	-456%	-398%	53%	-135%	82%	65%			
Balancing Energy External TC LBMP Energy Sales	374%	59%	365%	578%	440%	60%	41%	34%	40%			
Balancing Energy Bilateral - Internal Bilaterals	49%	4%	27%	34%	0%	-1%	3%	3%	1%			
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	50%	5%	32%	34%	21%	5%	3%	2%	4%			
Balancing Energy Bilateral - Wheel Through Bilaterals	-158%	-17%	-158%	-90%	-163%	-17%	-11%	-21%	-9%			
Transactions Summary												
LBMP	65%	62%	59%	57%	58%	65%	66%	69%	66%			
Internal Bilaterals	31%	31%	33%	35%	35%	29%	28%	25%	27%			
Import Bilaterals	1%	4%	4%	5%	4%	3%	3%	3%	4%			
Export Bilaterals	2%	2%	2%	2%	2%	2%	1%	1%	2%			
Wheels Through	2%	2%	2%	2%	2%	1%	1%	1%	2%			
Market Share of Total Load												
Day Ahead Market	99.8%	102.4%	100.6%	99.7%	100.3%	98.3%	102.4%	97.2%	95.9%			
Balancing Energy +	0.2%	-2.4%	-0.6%	0.3%	-0.3%	1.7%	-2.4%	2.8%	4.1%			
Total MWH	14,138,027	13,017,172	12,772,999	11,234,865	11,817,864	14,368,536	15,476,492	16,487,220	13,302,943			
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458	483	504	420			
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>	<u>November</u>	<u>December</u>
2020 Day Ahead Market MWh	<u>January</u> 14,194,609	<u>February</u> 13,172,669	<u>March</u> 12,495,999	<u>April</u> 11,372,390	<u>May</u> 11,462,320	<u>June</u> 13,825,178	<u>July</u> 16,629,337	<u>August</u> 15,671,629	<u>September</u> 13,122,542	<u>October</u> 12,338,638	<u>November</u> 12,157,281	<u>December</u> 13,748,181
		-			-		-					
Day Ahead Market MWh	14,194,609	13,172,669	12,495,999	11,372,390	11,462,320	13,825,178	16,629,337	15,671,629	13,122,542	12,338,638	12,157,281	13,748,181
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	14,194,609 56%	13,172,669 56%	12,495,999 59%	11,372,390 54%	11,462,320 55%	13,825,178 58%	16,629,337 65%	15,671,629 63%	13,122,542 60%	12,338,638 56%	12,157,281 57%	13,748,181 59%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	14,194,609 56% 6%	13,172,669 56% 5%	12,495,999 59% 5%	11,372,390 54% 7%	11,462,320 55% 4%	13,825,178 58% 3%	16,629,337 65% 2%	15,671,629 63% 4%	13,122,542 60% 4%	12,338,638 56% 5%	12,157,281 57% 5%	13,748,181 59% 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	14,194,609 56% 6% 30%	13,172,669 56% 5% 30%	12,495,999 59% 5% 27%	11,372,390 54% 7% 30%	11,462,320 55% 4% 31%	13,825,178 58% 3% 29%	16,629,337 65% 2% 26%	15,671,629 63% 4% 27%	13,122,542 60% 4% 30%	12,338,638 56% 5% 32%	12,157,281 57% 5% 33%	13,748,181 59% 5% 31%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	14,194,609 56% 6% 30% 5%	13,172,669 56% 5% 30% 5%	12,495,999 59% 5% 27% 6%	11,372,390 54% 7% 30% 6%	11,462,320 55% 4% 31% 6%	13,825,178 58% 3% 29% 5%	16,629,337 65% 2% 26% 3%	15,671,629 63% 4% 27% 3%	13,122,542 60% 4% 30% 2%	12,338,638 56% 5% 32% 3%	12,157,281 57% 5% 33% 3%	13,748,181 59% 5% 31% 2%
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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 MWh	14,194,609 56% 6% 30% 5% 2% 1% -26,753	13,172,669 56% 5% 30% 5% 2% 1% -142,168	12,495,999 59% 5% 27% 6% 2% 1% 144,076	11,372,390 54% 7% 30% 6% 2% 1% 22,599	11,462,320 55% 4% 31% 6% 2% 1% -137,565	13,825,178 58% 3% 29% 5% 2% 2% 2% -180,149	16,629,337 65% 2% 26% 3% 1% 2% 403,914	15,671,629 63% 4% 27% 3% 2% 2% 2% 212,307	13,122,542 60% 4% 30% 2% 2% 2% 2% -173,115	12,338,638 56% 5% 32% 3% 2% 2% 2% -89,451	12,157,281 57% 5% 33% 3% 2% 0% -54,598	13,748,181 59% 5% 31% 2% 2% 2% 2% 156,891
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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 BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsImport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 2% 0% 31% 5% 2% 0% 100.2% -0.2%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5% 2% 1% 101.1% -1.1%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 28% 2% 0% 27% 6% 27% 6% 27% 6% 27% 6% 20% 0%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6% 2% 0% 99.8% 0.2%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32% 6% 2% 0% 101.2% -1.2%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5% 2% 1% 101.3% -1.3%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% 0% 2% -24% 68% 26% 3% 1% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 43% -46% 67% 27% 3% 27% 3% 2% 1% 1%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 0% 7% -116% 64% 31% 2% 2% 1% 1%	12,338,638 56% 5% 32% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3% 2% 2% 2% 2%	12,157,281 57% 5% 33% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 3% 2% 0% 100.5% -0.5%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 6% 11% -19% 6% 31% 2% 2% 2% 2% 2% 2% 2%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Import/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Import/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +Total MWH	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 62% 31% 5% 2% 0% 100.2% -0.2% 14,167,856	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5% 2% 1% 101.1% -1.1% 13,030,501	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 27% 6% 27% 6% 27% 6% 2% 0% 98.9% 1.1% 12,640,075	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6% 2% 0% 99.8% 0.2% 11,394,989	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32% 6% 2% 0% 101.2% -1.2% 11,324,755	13,825,178 58% 3% 29% 5% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5% 2% 1% 101.3% -1.3% 13,645,029	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% 0% 2% -24% 68% 26% 3% 1% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 2% 212,307 99% 43% 1% 0% 4% -46% 67% 27% 3% 2% 1% 98.7% 1.3% 15,883,935	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 0% 7% -116% 64% 31% 2% 2% 2% 2% 1% 101.3% -1.3% 12,949,426	12,338,638 56% 5% 32% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3% 2% 2% 2% 100.7% -0.7% 12,249,187	12,157,281 57% 5% 33% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% -69% 33% 2% 0% 100.5% -0.5% 12,102,682	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 7% 6% 11% -19% 64% 31% 2% 2% 2% 2% 2% 2% 2% 1.1% 13,905,071
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsImport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +	14,194,609 56% 6% 30% 5% 2% 1% -26,753 -1080% 1156% 62% 0% 127% -365% 2% 0% 31% 5% 2% 0% 100.2% -0.2%	13,172,669 56% 5% 30% 5% 2% 1% -142,168 -221% 181% 5% 0% 16% -81% 62% 31% 5% 2% 1% 101.1% -1.1%	12,495,999 59% 5% 27% 6% 2% 1% 144,076 -85% 240% 12% 0% 18% -85% 28% 2% 0% 27% 6% 27% 6% 27% 6% 27% 6% 20% 0%	11,372,390 54% 7% 30% 6% 2% 1% 22,599 -884% 1233% 55% 0% 92% -396% 61% 30% 6% 2% 0% 99.8% 0.2%	11,462,320 55% 4% 31% 6% 2% 1% -137,565 -187% 137% 12% 0% 12% -74% 59% 32% 6% 2% 0% 101.2% -1.2%	13,825,178 58% 3% 29% 5% 2% 2% -180,149 -134% 99% 7% 0% 5% -77% 62% 30% 5% 2% 1% 101.3% -1.3%	16,629,337 65% 2% 26% 3% 1% 2% 403,914 85% 35% 2% 0% 2% 0% 2% -24% 68% 26% 3% 1% 1% 1%	15,671,629 63% 4% 27% 3% 2% 2% 212,307 99% 43% 1% 0% 43% -46% 67% 27% 3% 27% 3% 2% 1% 1%	13,122,542 60% 4% 30% 2% 2% 2% -173,115 -95% 104% 0% 0% 7% -116% 64% 31% 2% 2% 1% 1%	12,338,638 56% 5% 32% 2% 2% -89,451 -220% 187% 4% 20% 17% -107% 61% 32% 3% 2% 2% 2% 2%	12,157,281 57% 5% 33% 2% 0% -54,598 -459% 382% 3% 9% 33% -69% 62% 33% 3% 2% 0% 100.5% -0.5%	13,748,181 59% 5% 31% 2% 2% 2% 156,891 -12% 107% 6% 11% -19% 6% 31% 2% 2% 2% 2% 2% 2% 2%

+ 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: 10/11/2021 4:25 PM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

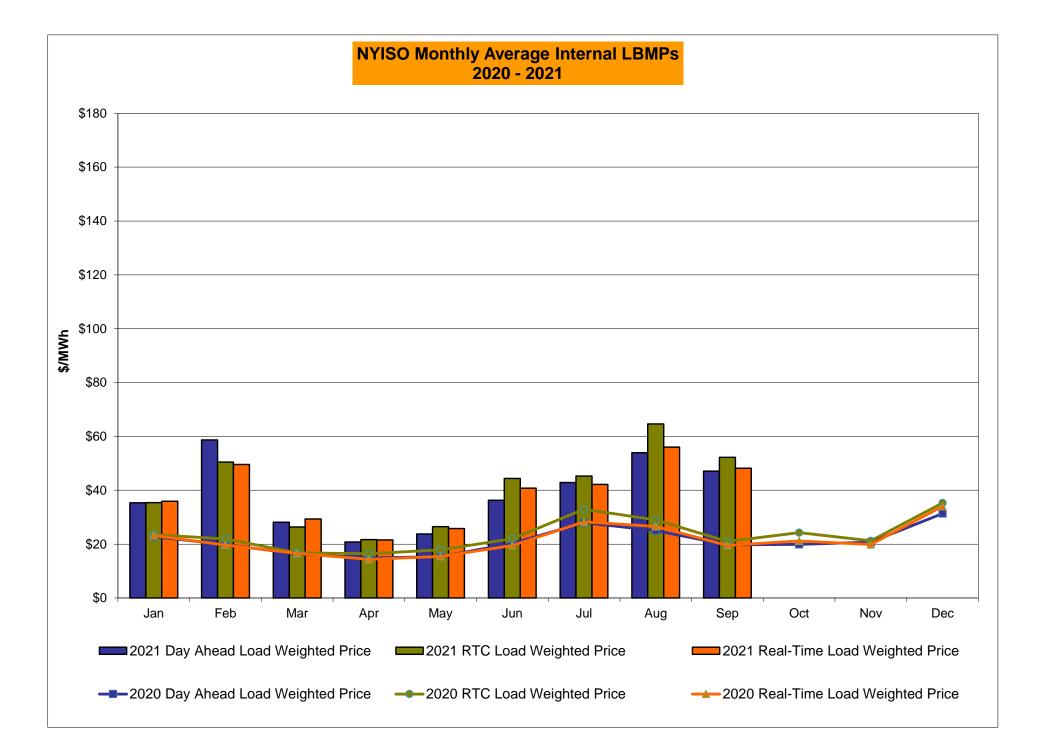
#### NYISO Markets 2021 Energy Statistics

	<u>January</u>	<b>February</b>	March	<u>April</u>	May	<u>June</u>	July	August	<u>September</u>	October November December
DAY AHEAD LBMP										
Price *	\$34.37	\$57.30	\$27.47	\$20.46	\$22.95	\$33.36	\$40.38	\$50.30	\$45.48	
Standard Deviation	\$14.58	\$24.48	\$8.23	\$4.58	\$6.28	\$15.88	\$15.56	\$22.37	\$12.42	
Load Weighted Price **	\$35.31	\$58.67	\$28.12	\$20.81	\$23.75	\$36.28	\$42.84	\$53.93	\$47.08	
RTC LBMP										
Price *	\$34.32	\$49.25	\$25.59	\$21.30	\$25.36	\$39.69	\$42.25	\$58.87	\$50.07	
Standard Deviation	\$20.93	\$23.34	\$12.67	\$7.91	\$11.17	\$34.08	\$47.97	\$47.79	\$22.24	
Load Weighted Price **	\$35.40	\$50.48	\$26.37	\$21.67	\$26.50	\$44.41	\$45.27	\$64.66	\$52.21	
REAL TIME LBMP										
Price *	\$34.59	\$48.22	\$28.06	\$21.10	\$24.62	\$36.58	\$39.61	\$51.46	\$46.37	
Standard Deviation	\$29.47	\$26.46	\$26.13	\$10.07	\$10.91	\$25.43	\$26.73	\$37.53	\$18.08	
Load Weighted Price **	\$35.89	\$49.57	\$29.33	\$21.55	\$25.78	\$40.76	\$42.20	\$56.04	\$48.21	
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458	483	504	420	

#### NYISO Markets 2020 Energy Statistics

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

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

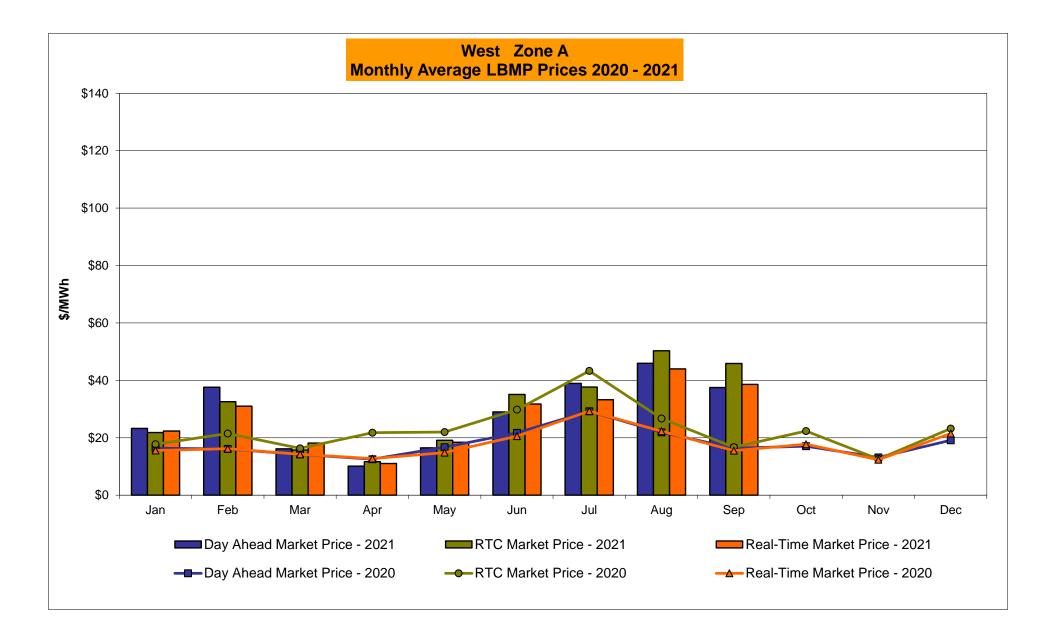


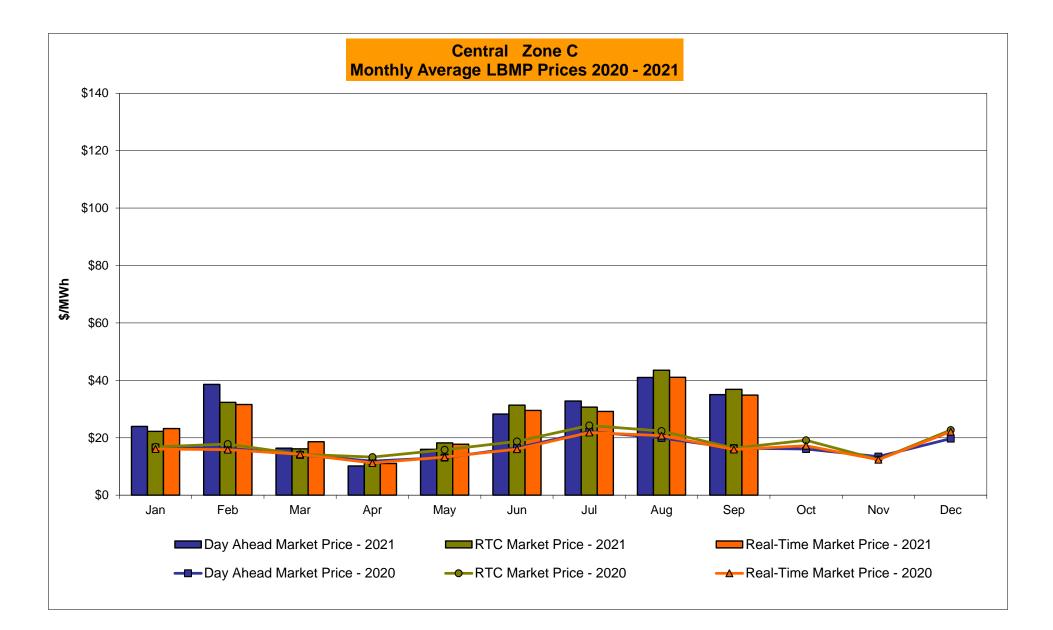
#### September 2021 Zonal LBMP Statistics for NYISO (\$/MWh)

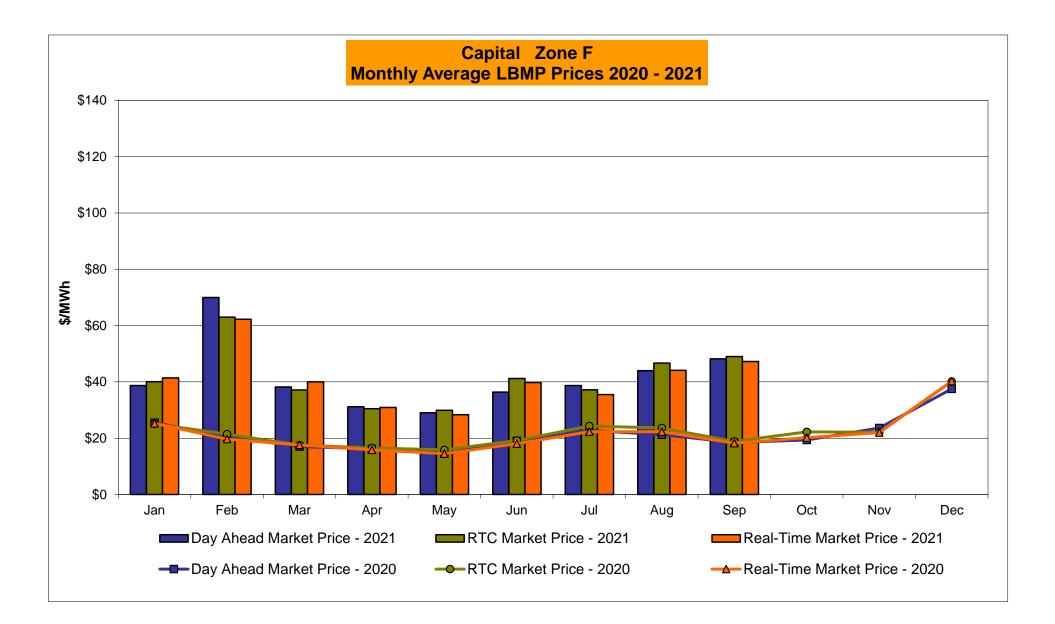
	_	_			MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	<u>Zone H</u>	<u>Zone I</u>	Zone J	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	37.47	33.48	26.65	35.01	35.06	48.18	45.68	46.57	46.77	48.41	59.59
Standard Deviation	16.35	10.15	9.84	10.83	10.77	14.22	12.16	12.48	12.46	13.31	18.25
RTC LBMP											
Unweighted Price *	45.90	33.83	29.70	36.85	36.87	49.01	47.15	48.37	48.82	50.77	75.57
Standard Deviation	35.49	14.59	22.49	16.01	15.73	20.81	18.36	20.00	20.44	21.63	82.81
REAL TIME LBMP											
Unweighted Price *	38.61	32.88	27.84	34.83	34.93	47.26	45.16	46.44	46.91	49.26	63.95
Standard Deviation	26.11	14.53	26.48	15.10	15.20	19.07	15.41	16.81	16.92	17.98	62.46

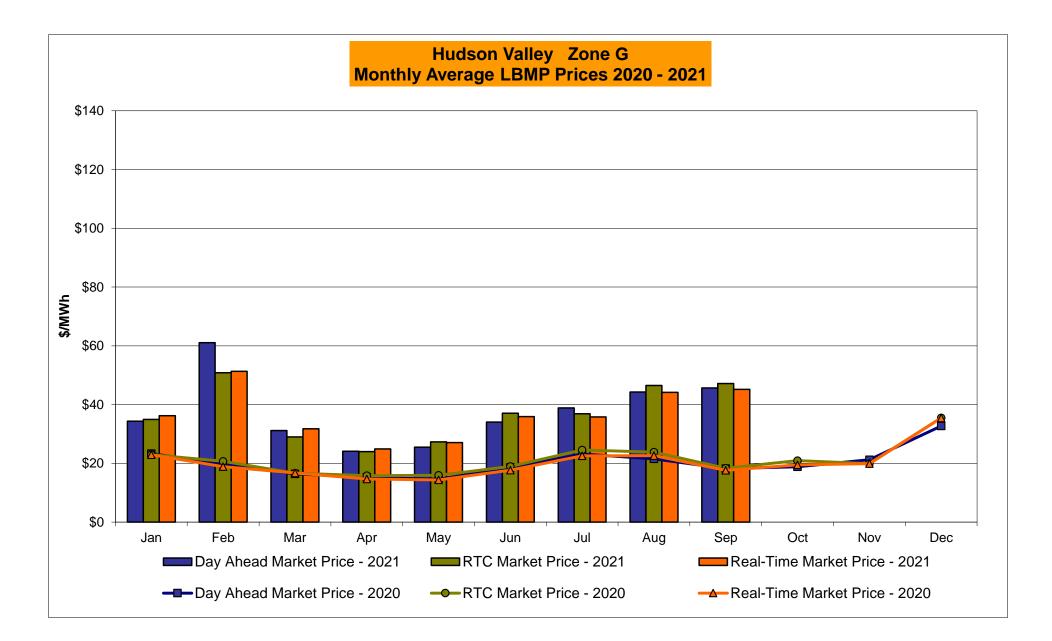
	ONTARIO	HYDRO QUEBEC	HYDRO QUEBEC		NEW	CROSS SOUND	NORTHPORT-				
	IESO		(Import/Export)	PJM	ENGLAND	CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>
	<u>Zone O</u>	<u>Zone M</u>	Zone M	<u>Zone P</u>	<u>Zone N</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	31.33	30.01	30.01	40.83	46.81	59.52	49.10	58.98	46.93	46.78	27.10
Standard Deviation	8.90	9.20	9.20	11.30	12.18	19.71	11.17	17.50	12.51	12.40	8.24
RTC LBMP											
Unweighted Price *	28.49	32.74	32.74	43.65	48.10	75.48	71.57	74.21	49.63	47.79	29.97
Standard Deviation	13.22	15.69	15.69	16.54	15.07	83.58	80.36	78.29	19.51	18.42	18.80
REAL TIME LBMP											
Unweighted Price *	30.05	30.68	30.68	40.97	45.69	63.40	44.08	62.40	48.14	46.16	28.24
Standard Deviation	13.41	15.52	15.52	14.61	15.24	68.51	113.77	69.32	17.92	16.79	20.05

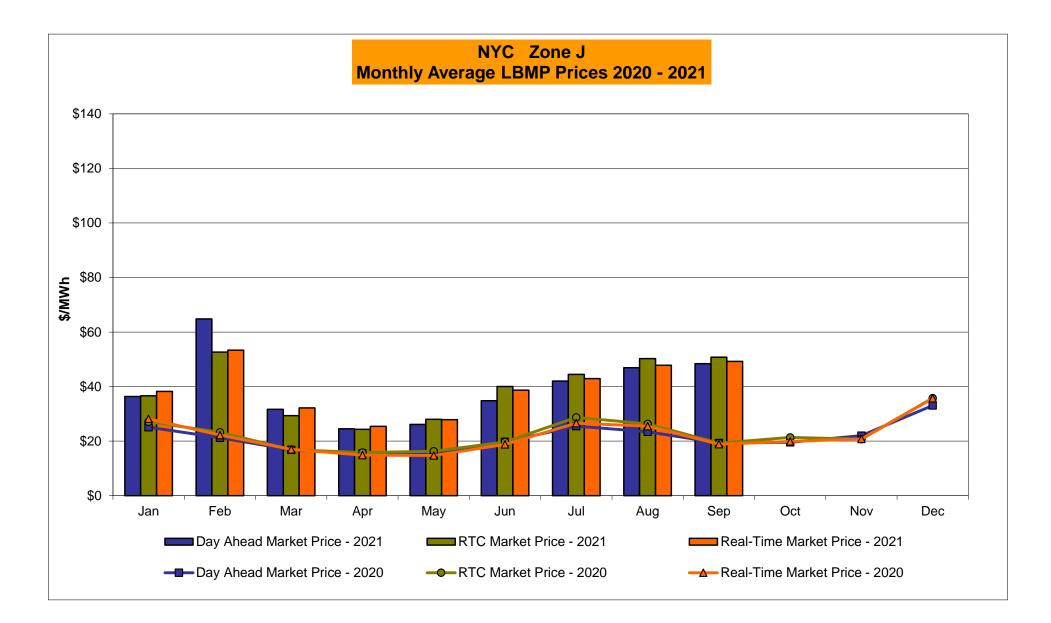
\* Straight LBMP averages



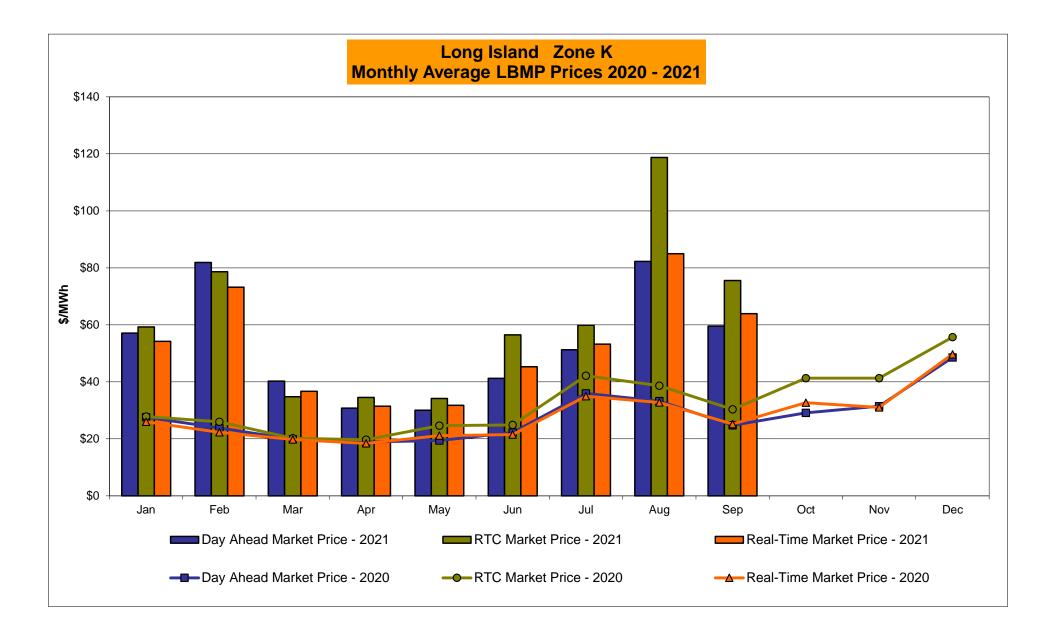


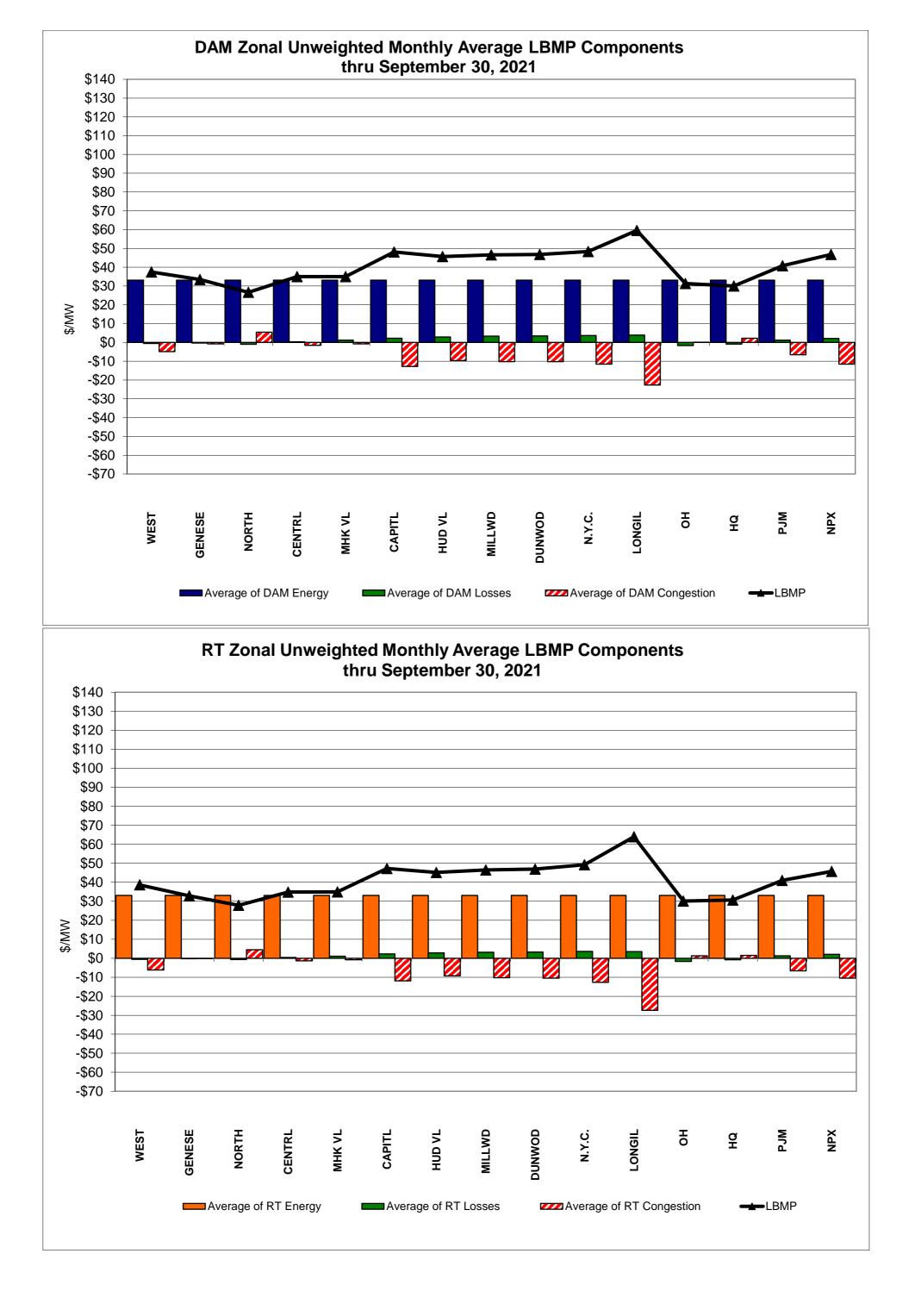




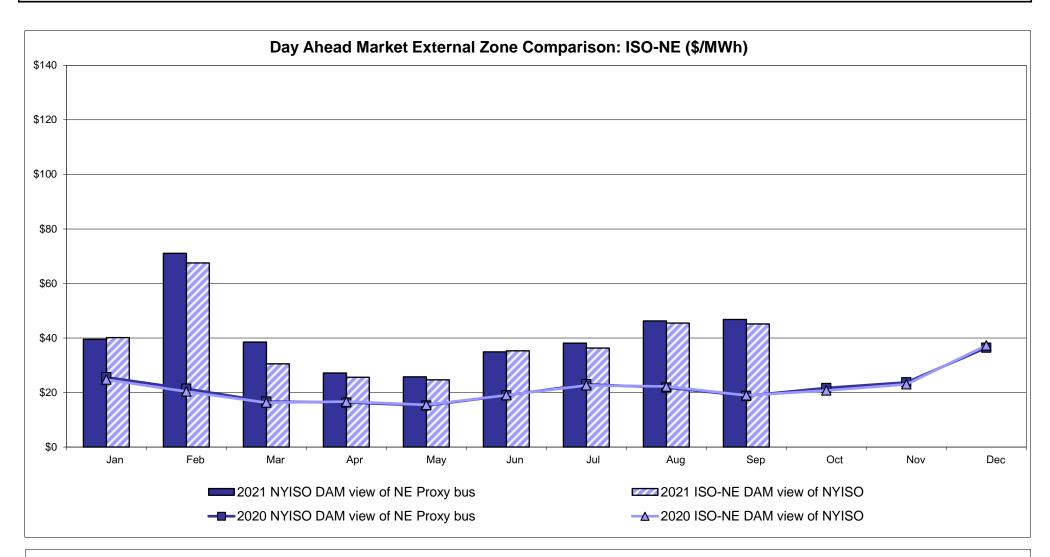


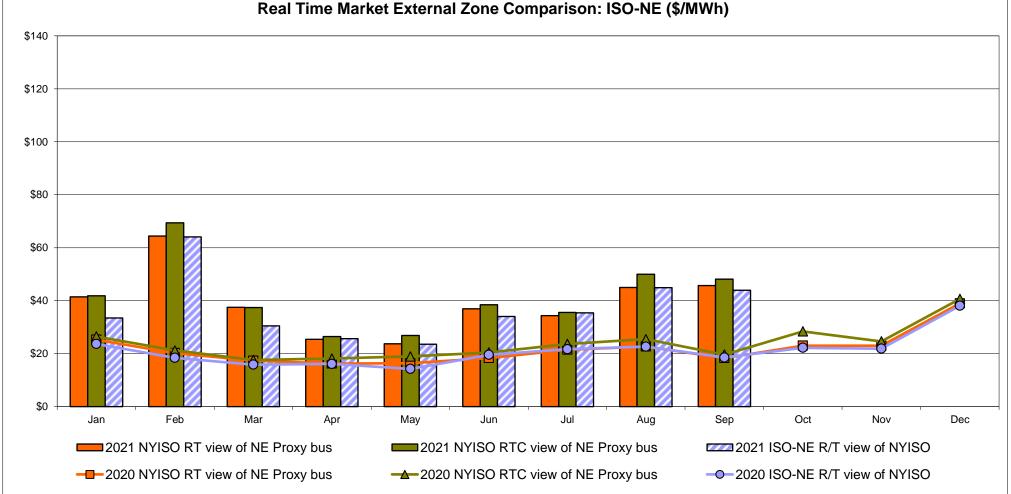
Market Mitigation and Analysis Prepared:10/11/2021 4:22 PM

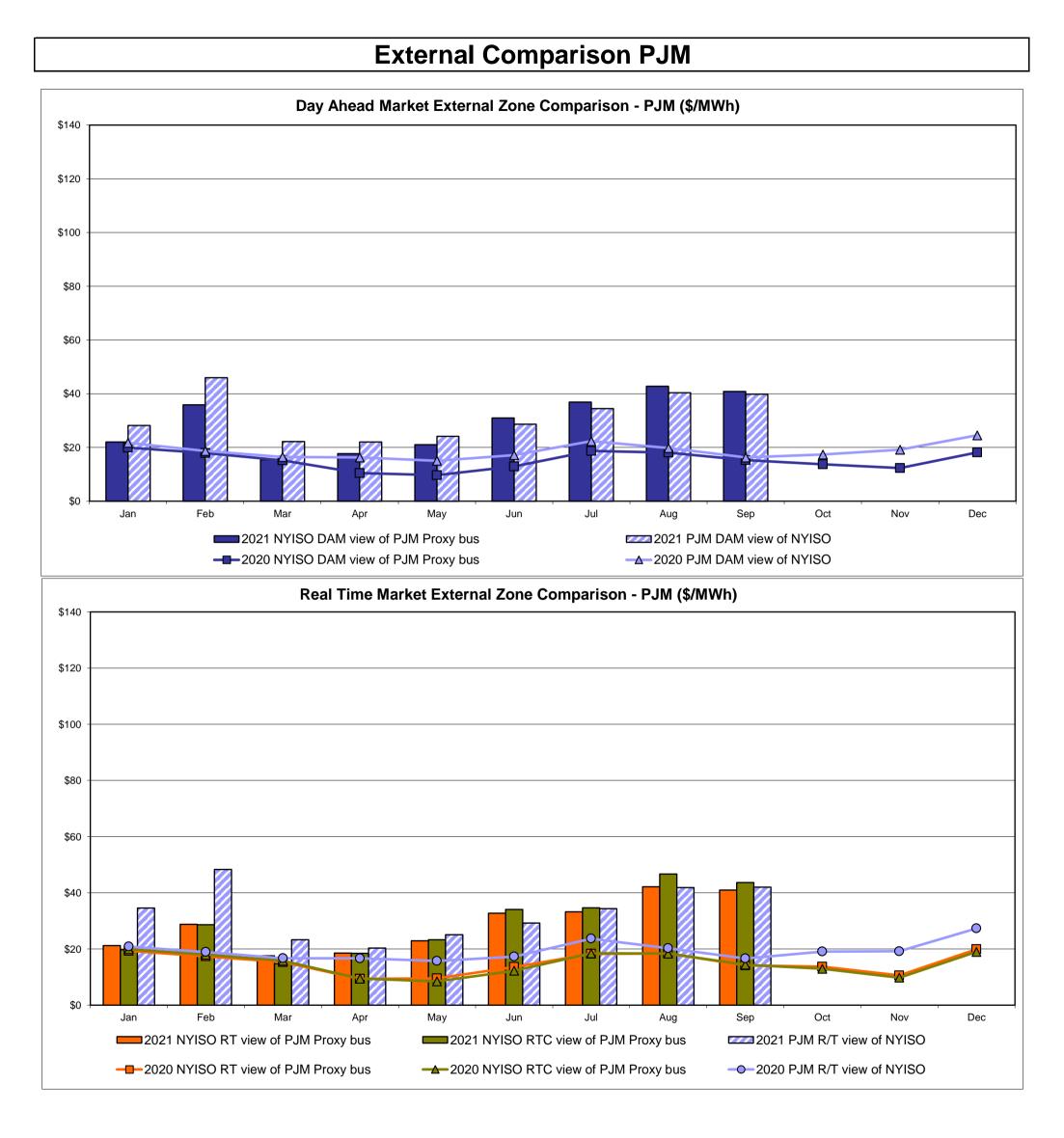




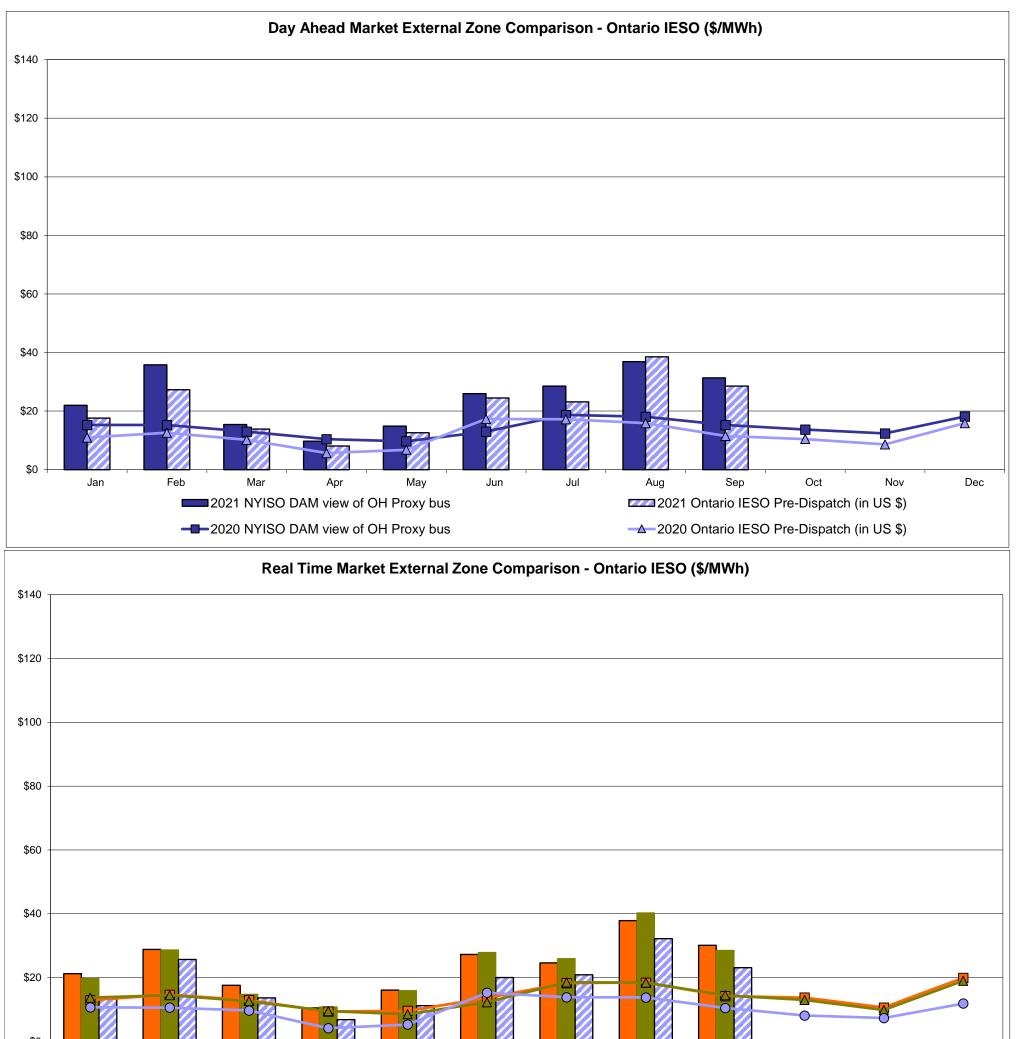
# External Comparison ISO-New England







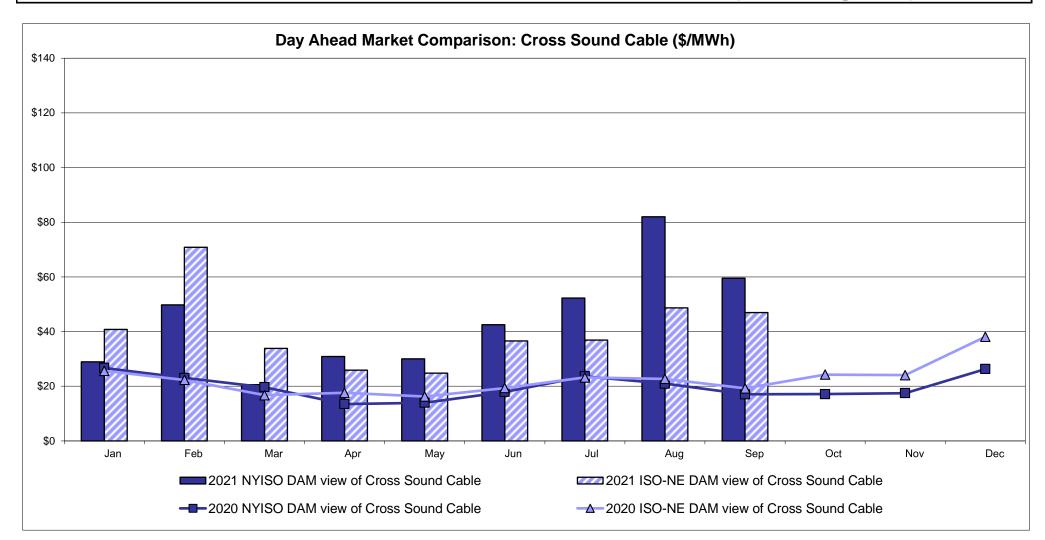
#### **External Comparison Ontario IESO**



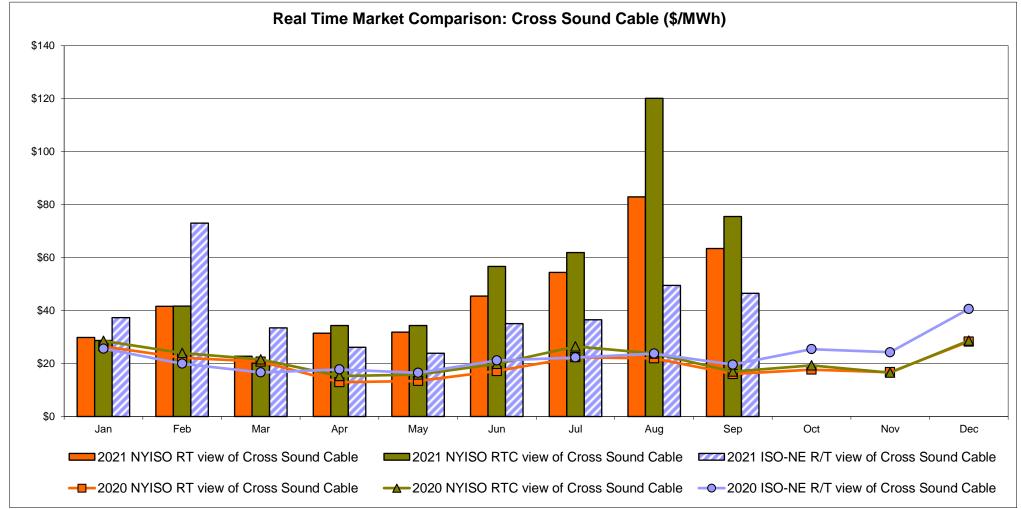


Notes: Exchange factor used for September 2021 was 0.789203693473286 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

Market Mitigation and Analysis Prepared: 10/11/2021 4:22 PM



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

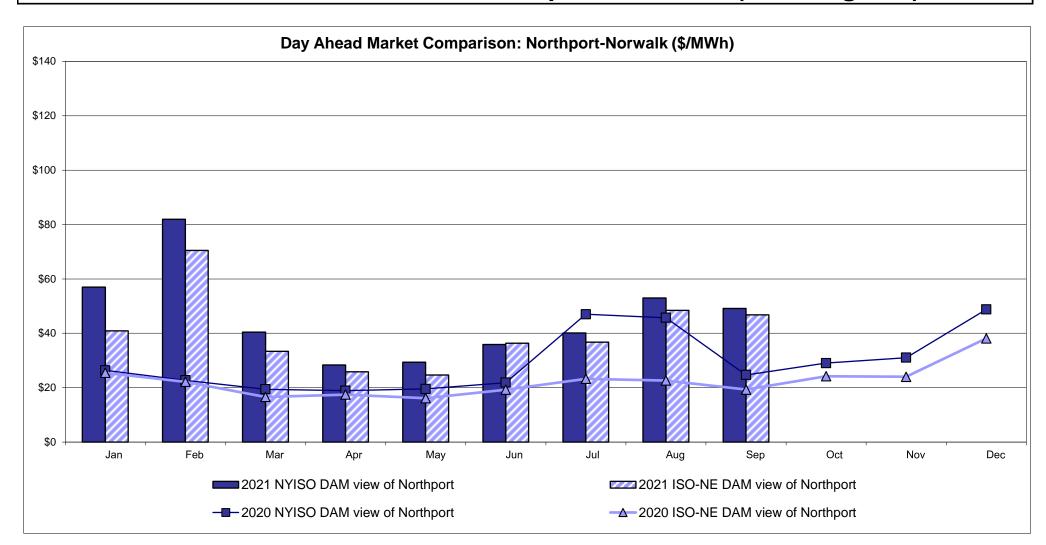


Note:

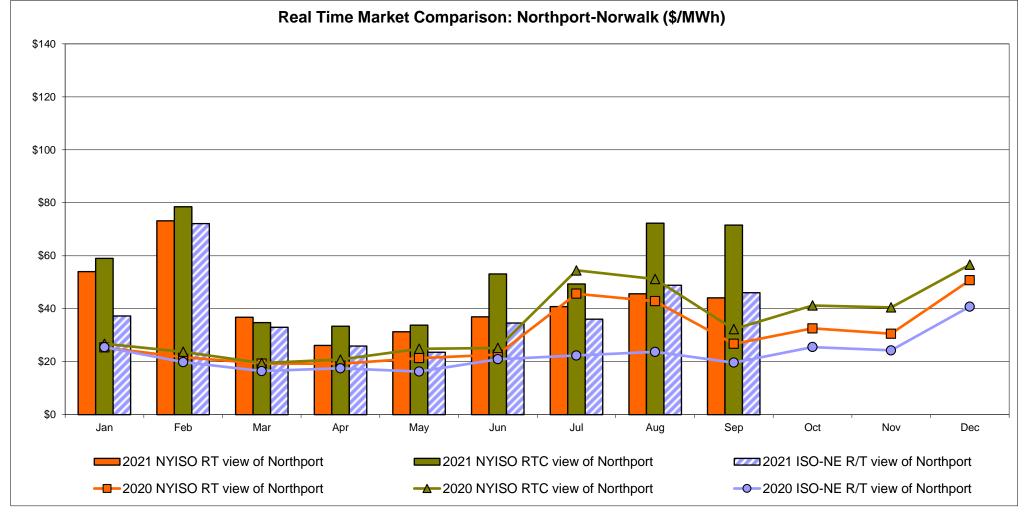
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



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



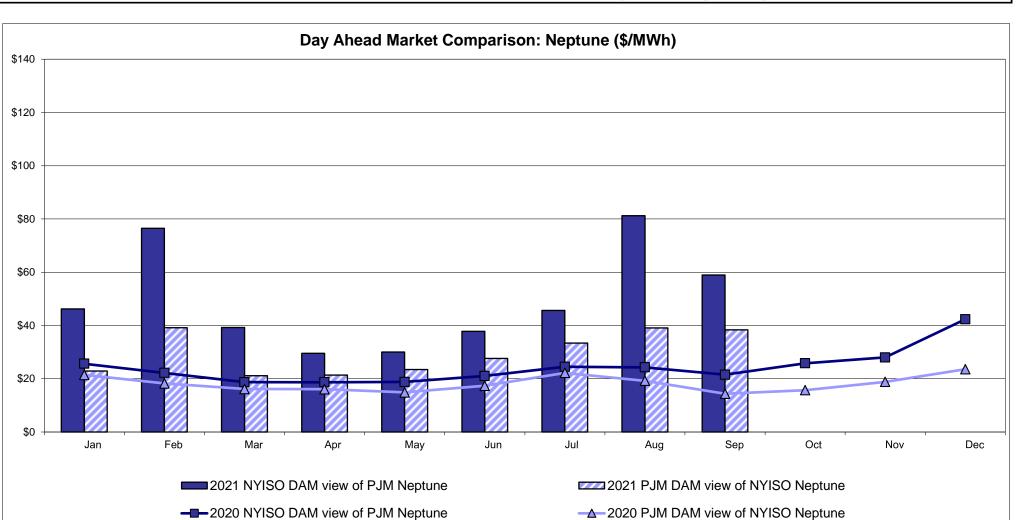
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ISO-NE Forecast is an advisory posting @ 18:00 day before.

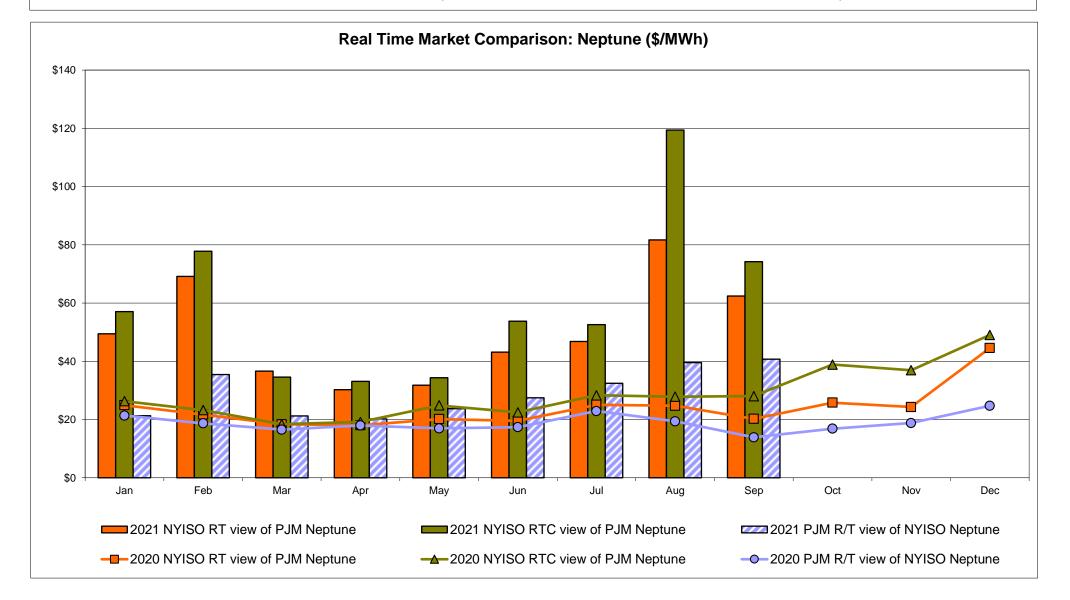
The DAM and R/T prices at the 1385 interface are used for NYISO.

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

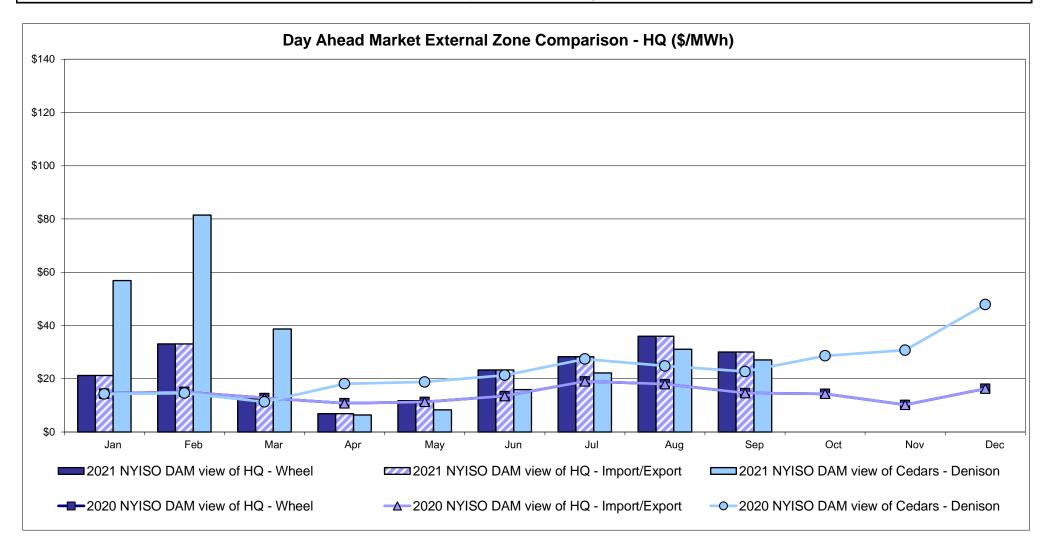
Note:

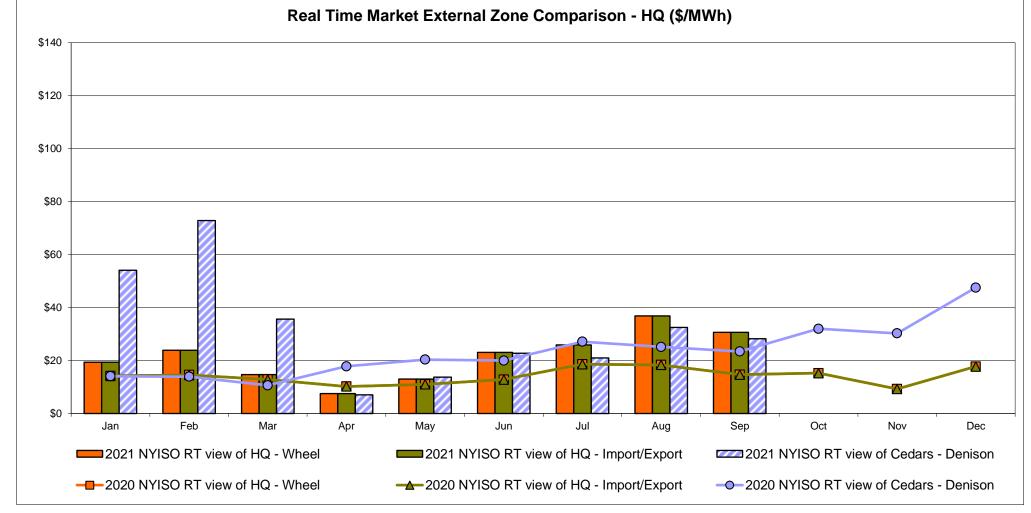


# **External Controllable Line: Neptune (PJM)**



# **External Comparison Hydro-Quebec**

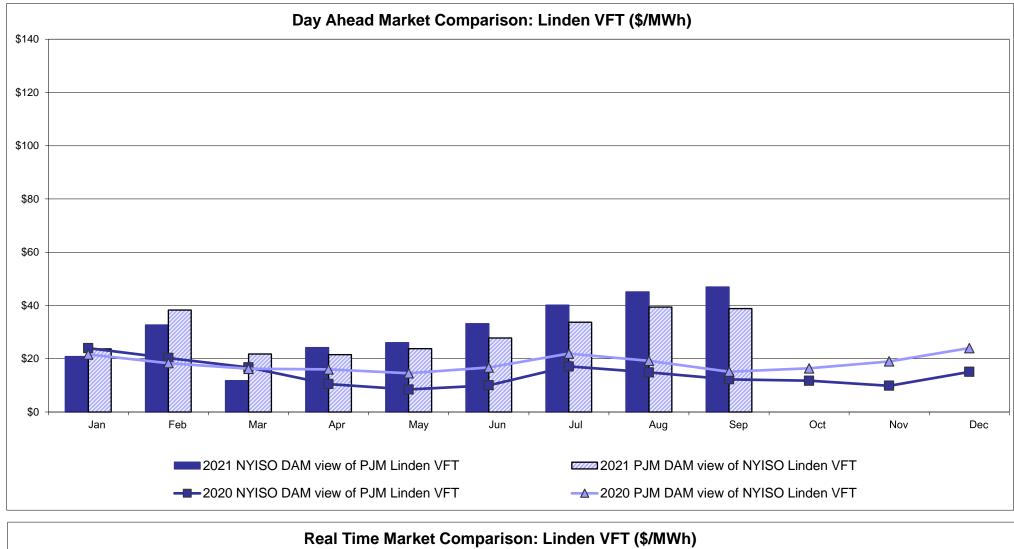


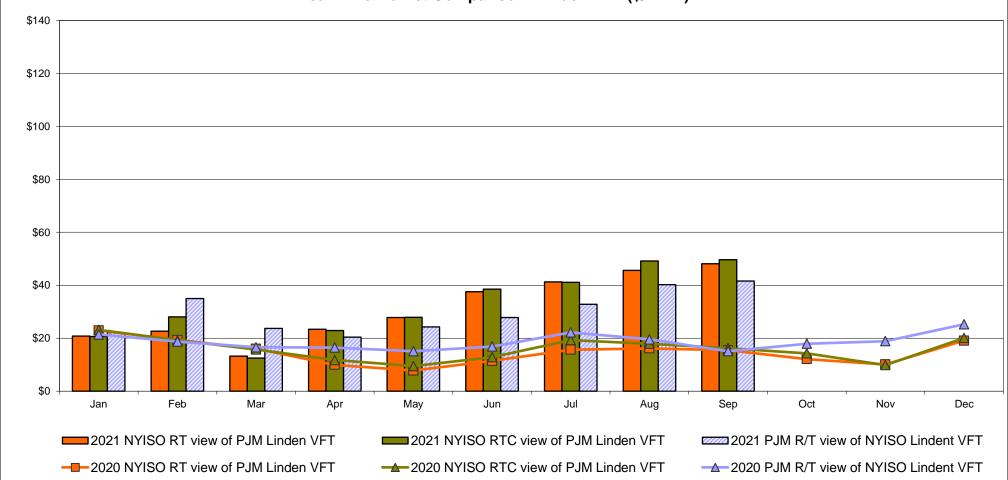


Note:

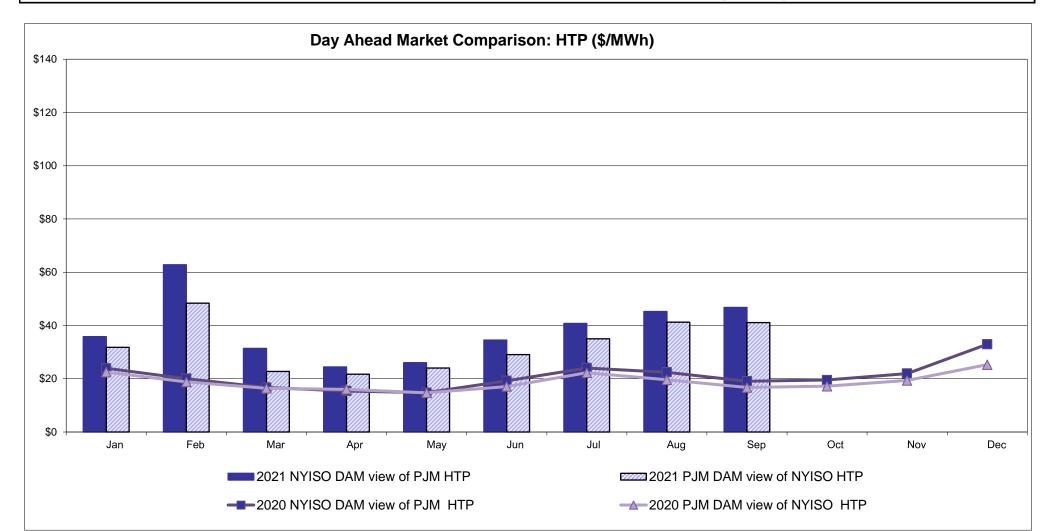
Hydro-Quebec Prices are unavailable.

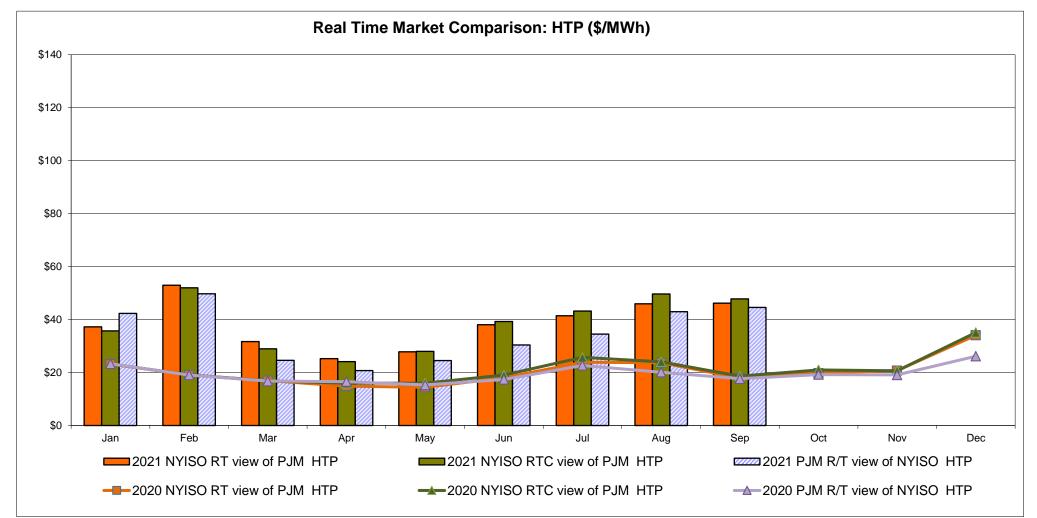
### External Controllable Line: Linden VFT (PJM)





### External Controllable Line: Hudson (PJM)



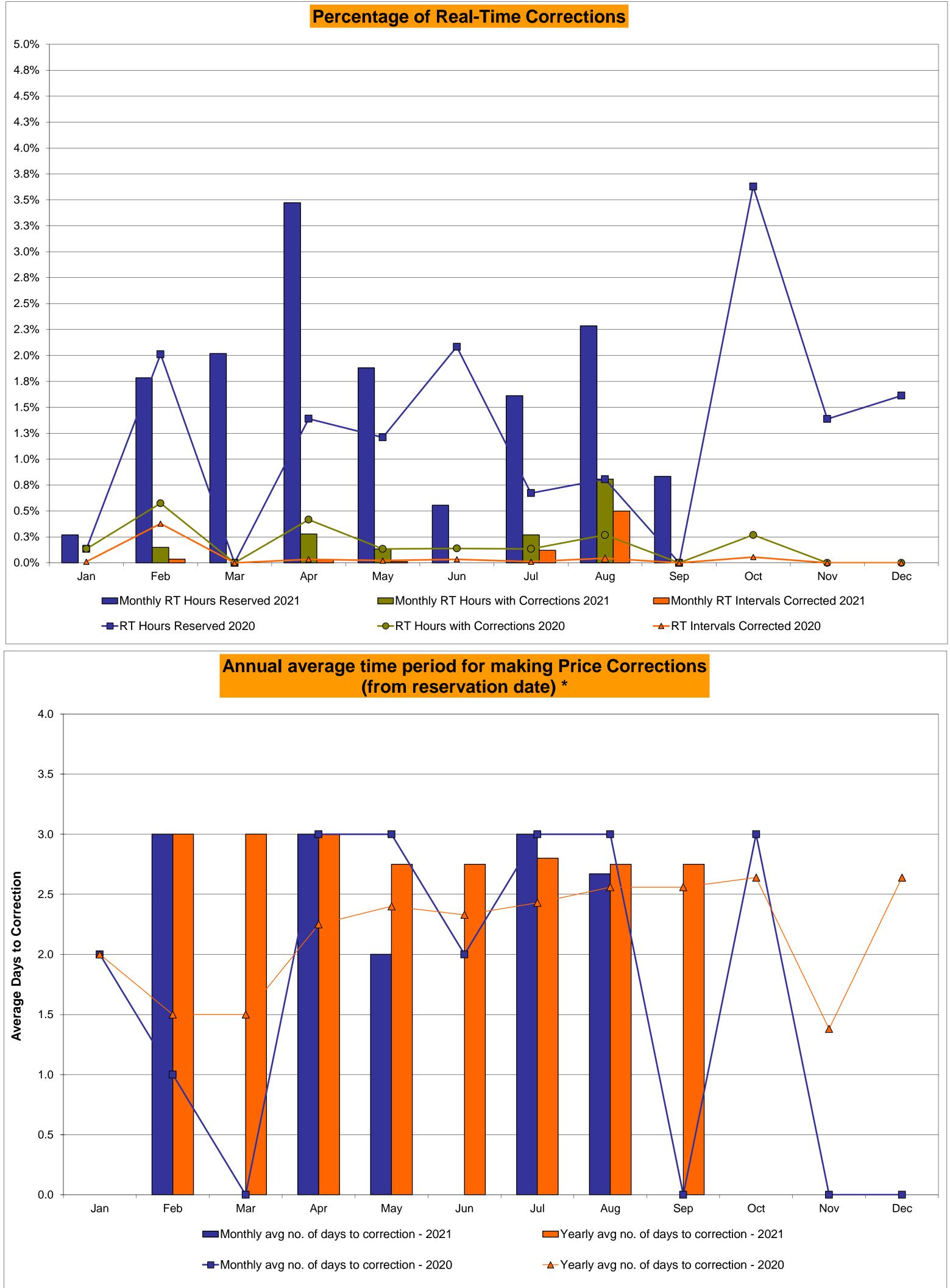


#### **NYISO Real Time Price Correction Statistics**

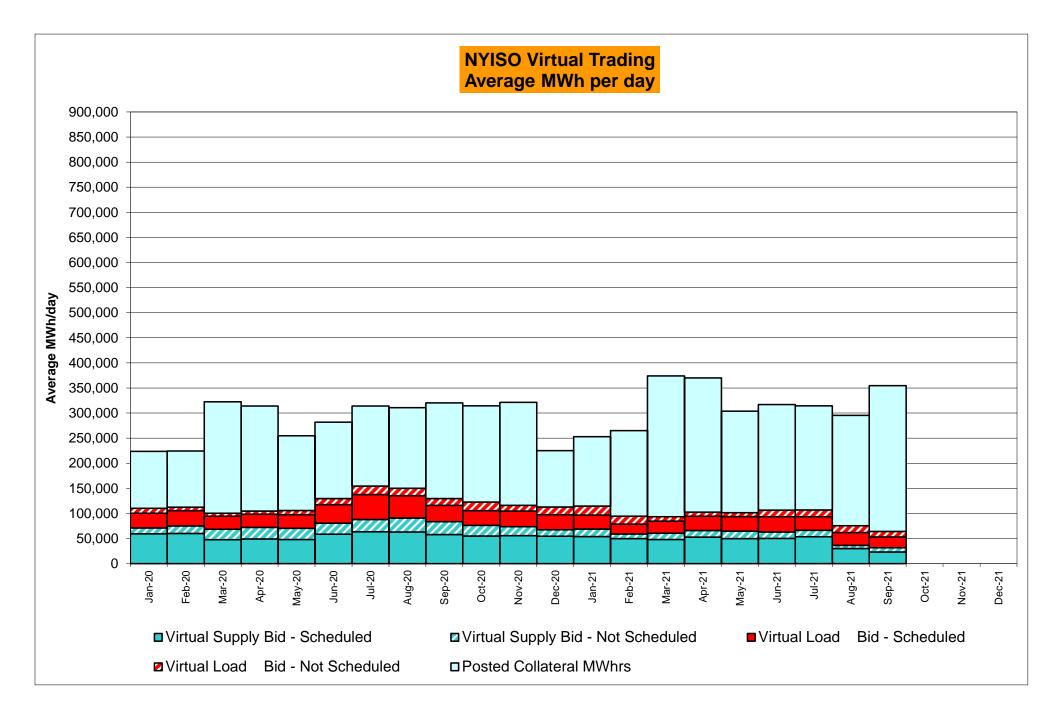
<u>2021</u>		January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	0	1	0	2	1	0	2	6	0			
Number of hours	in the month	0 744	672	0 743	720	ı 744	0 720	2 744	6 744	0 720			
% of hours with corrections	in the month	0.00%	0.15%	0.00%	0.28%	0.13%	0.00%	0.27%	0.81%	0.00%			
% of hours with corrections Interval Corrections	year-to-date	0.00%	0.07%	0.05%	0.10%	0.11%	0.09%	0.12%	0.21%	0.18%			
Number of intervals corrected	in the month	0	3	0	3	1	0	11	45	0			
Number of intervals	in the month	9,095	8,236	9,100	8,827	9,157	8,813	9,084	9,024	8,783			
% of intervals corrected	in the month	0.00%	0.04%	0.00%	0.03%	0.01%	0.00%	0.12%	0.50%	0.00%			
% of intervals corrected	year-to-date	0.00%	0.02%	0.01%	0.02%	0.02%	0.01%	0.03%	0.09%	0.08%			
Hours Reserved		0.0070	0.0270	0.0170	0.0270	0.0270	010170	0.0070	0.0070				
Number of hours reserved	in the month	2	12	15	25	14	4	12	17	6			
Number of hours	in the month	744	672	743	720	744	720	744	744	720			
% of hours reserved	in the month	0.27%	1.79%	2.02%	3.47%	1.88%	0.56%	1.61%	2.28%	0.83%			
% of hours reserved	year-to-date	0.27%	0.99%	1.34%	1.88%	1.88%	1.66%	1.65%	1.73%	1.63%			
Days to Correction *	,												
Avg. number of days to correction	in the month	0.00	3.00	0.00	3.00	2.00	0.00	3.00	2.67	0.00			
Avg. number of days to correction	year-to-date	0.00	3.00	3.00	3.00	2.75	2.75	2.80	2.75	2.75			
Days Without Corrections													
Days without corrections	in the month	31	27	31	28	30	30	30	28	30			
Days without corrections	year-to-date	31	58	89	117	147	177	207	235	265			
2020		<u>January</u>	<b>February</b>	March	April	May	<u>June</u>	July	August	<u>September</u>	<u>October</u>	November	December
2020 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
	in the month	<u>January</u> 1	<u>February</u> 4	<u>March</u> 0	<u>April</u> 3	<u>May</u> 1	<u>June</u> 1	<u>July</u> 1	<u>August</u> 2	<u>September</u> 0	<u>October</u> 2	<u>November</u> 0	<u>December</u> 0
Hour Corrections	in the month in the month	<u>January</u> 1 744				<u>May</u> 1 744		<u>July</u> 1 744					
Hour Corrections Number of hours with corrections		1	4	0	3	1	1	1	2	0	2	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	1 744	4 696	0 743	3 720	1 744	1 720	1 744	2 744	0 720	2 744	0 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	1 744 0.13%	4 696 0.57%	0 743 0.00%	3 720 0.42%	1 744 0.13%	1 720 0.14%	1 744 0.13%	2 744 0.27%	0 720 0.00%	2 744 0.27%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	1 744 0.13%	4 696 0.57%	0 743 0.00%	3 720 0.42%	1 744 0.13%	1 720 0.14%	1 744 0.13%	2 744 0.27%	0 720 0.00%	2 744 0.27%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	1 744 0.13%	4 696 0.57% 0.35%	0 743 0.00% 0.23%	3 720 0.42% 0.28%	1 744 0.13% 0.25%	1 720 0.14% 0.23%	1 744 0.13%	2 744 0.27% 0.22%	0 720 0.00% 0.20%	2 744 0.27% 0.20%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected	in the month in the month year-to-date in the month	1 744 0.13% <u>0.13%</u> 1	4 696 0.57% <u>0.35%</u> 32	0 743 0.00% <u>0.23%</u> 0	3 720 0.42% 0.28% 3	1 744 0.13% <u>0.25%</u> 2	1 720 0.14% <u>0.23%</u> 3	1 744 0.13% <u>0.22%</u> 1	2 744 0.27% <u>0.22%</u> 4	0 720 0.00% <u>0.20%</u> 0	2 744 0.27% <u>0.20%</u> 5	0 721 0.00% <u>0.19%</u> 0	0 744 0.00% <u>0.17%</u> 0
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month	1 744 0.13% <u>0.13%</u> 1 9,088	4 696 0.57% 0.35% 32 8,460	0 743 0.00% <u>0.23%</u> 0 9,011	3 720 0.42% 0.28% 3 8,776	1 744 0.13% <u>0.25%</u> 2 9,030	1 720 0.14% 0.23% 3 8,826	1 744 0.13% <u>0.22%</u> 1 9,128	2 744 0.27% <u>0.22%</u> 4 9,156	0 720 0.00% 0.20% 0 8,810	2 744 0.27% 0.20% 5 9,048	0 721 0.00% 0.19% 0 8,790	0 744 0.00% <u>0.17%</u> 0 9,083
Hour 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	1 744 0.13% <u>0.13%</u> 1 9,088 0.01%	4 696 0.57% <u>0.35%</u> 32 8,460 0.38%	0 743 0.00% <u>0.23%</u> 0 9,011 0.00%	3 720 0.42% 0.28% 3 8,776 0.03%	1 744 0.13% <u>0.25%</u> 2 9,030 0.02%	1 720 0.14% 0.23% 3 8,826 0.03%	1 744 0.13% 0.22% 1 9,128 0.01%	2 744 0.27% 0.22% 4 9,156 0.04%	0 720 0.00% 0.20% 0 8,810 0.00%	2 744 0.27% <u>0.20%</u> 5 9,048 0.06%	0 721 0.00% 0.19% 0 8,790 0.00%	0 744 0.00% <u>0.17%</u> 0 9,083 0.00%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber of hours reserved	in the month in the month year-to-date in the month in the month in the month	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10	1 744 0.13% <u>0.25%</u> 2 9,030 0.02% <u>0.09%</u> 9	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6	0 720 0.00% 0.20% 0 8,810 0.00% 0.06%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27	0 721 0.00% 0.19% 0 8,790 0.00% 0.00% 0.05%	0 744 0.00% <u>0.17%</u> 0 9,083 0.00% <u>0.05%</u> 12
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with corrections <u>Mumber of hours with corrections</u> Number of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals correctedMumber 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% 1 9,088 0.01% 0.01% 1 744	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721	0 744 0.00% <u>0.17%</u> 0 9,083 0.00% <u>0.05%</u> 12 744
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	1 744 0.13% 0.13% 1 9,088 0.01% 0.01% 1	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10	1 744 0.13% <u>0.25%</u> 2 9,030 0.02% <u>0.09%</u> 9	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6	0 720 0.00% 0.20% 0 8,810 0.00% 0.06%	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27	0 721 0.00% 0.19% 0 8,790 0.00% 0.00% 0.05%	0 744 0.00% <u>0.17%</u> 0 9,083 0.00% <u>0.05%</u> 12
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval 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% 1 9,088 0.01% 0.01% 1 744	4 696 0.57% 0.35% 32 8,460 0.38% 0.19% 14 696	0 743 0.00% 0.23% 0 9,011 0.00% 0.12% 0 743	3 720 0.42% 0.28% 3 8,776 0.03% 0.10% 10 720	1 744 0.13% 0.25% 2 9,030 0.02% 0.09% 9 744	1 720 0.14% 0.23% 3 8,826 0.03% 0.08% 15 720	1 744 0.13% 0.22% 1 9,128 0.01% 0.07% 5 744	2 744 0.27% 0.22% 4 9,156 0.04% 0.06% 6 744	0 720 0.00% 0.20% 0 8,810 0.00% 0.06% 0 720	2 744 0.27% 0.20% 5 9,048 0.06% 0.06% 27 744	0 721 0.00% 0.19% 0 8,790 0.00% 0.05% 10 721	0 744 0.00% <u>0.17%</u> 0 9,083 0.00% <u>0.05%</u> 12 744
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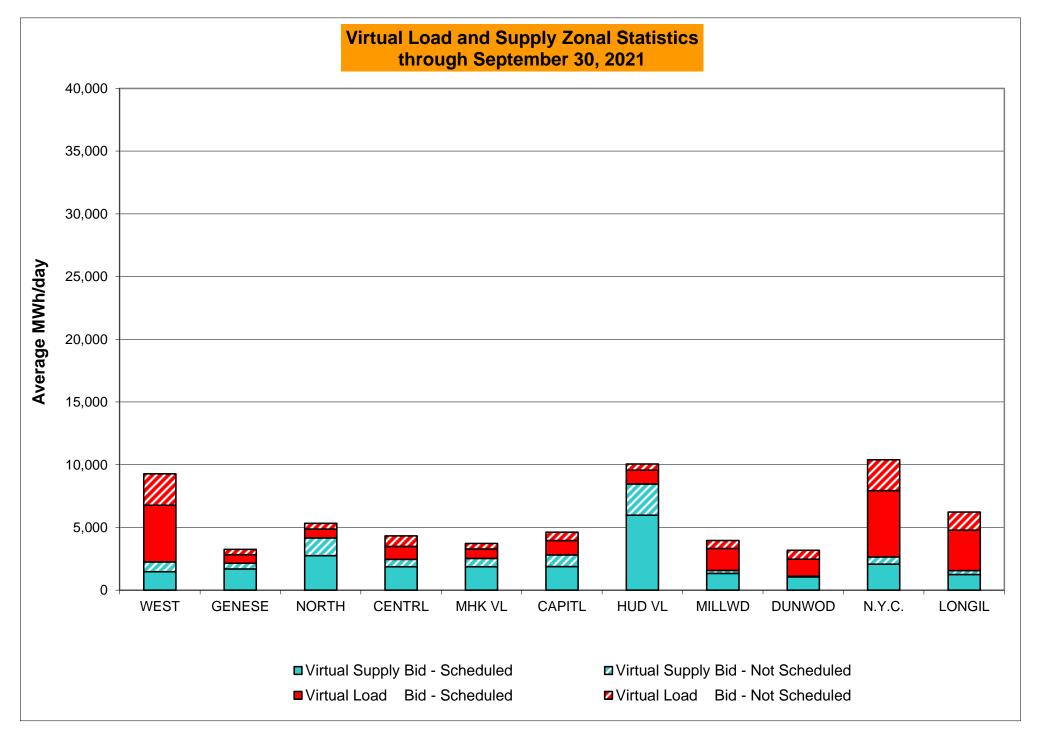
\*Calendar days from reservation date; for June 2018 forward, business days from market date

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



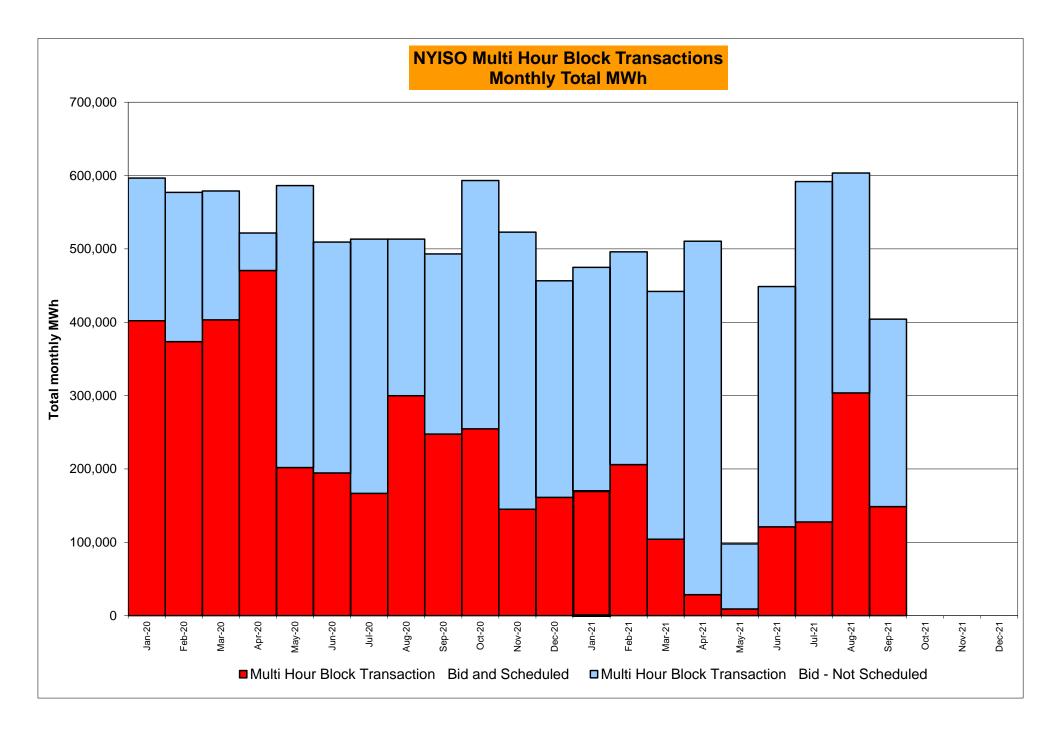
\*Calendar days from reservation date; for June 2018 forward, business days from market date

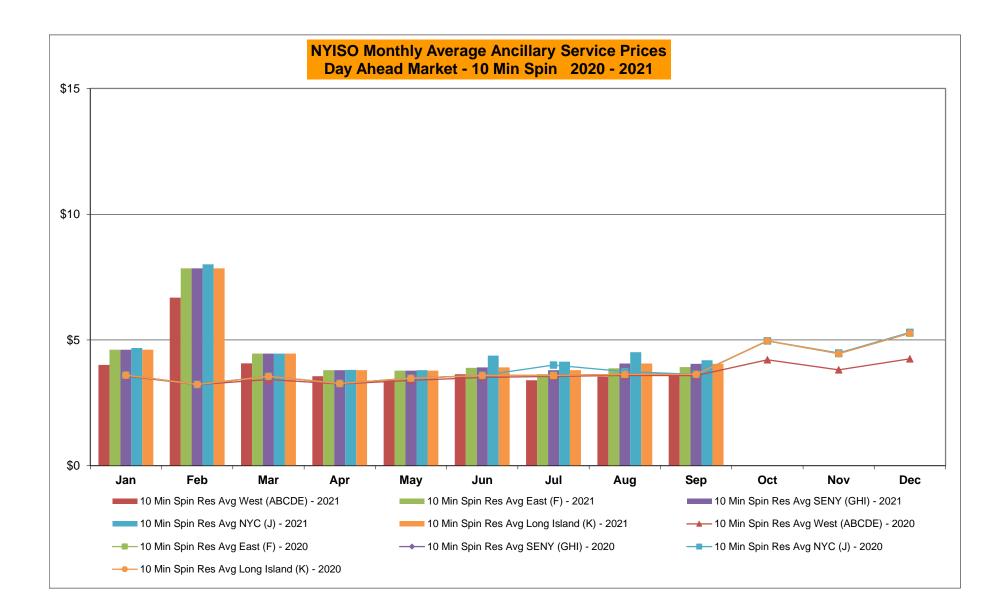


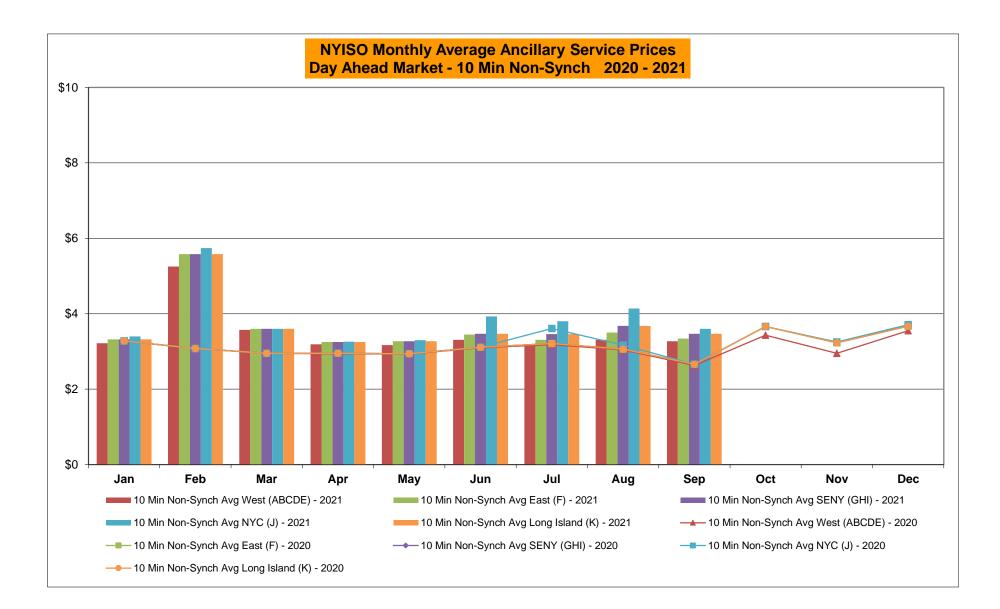


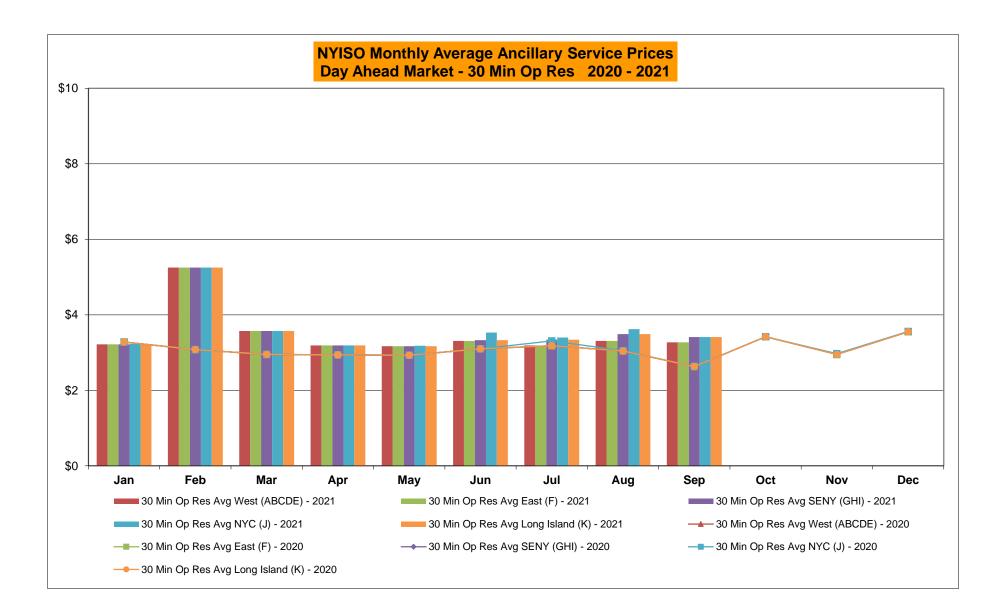
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2021

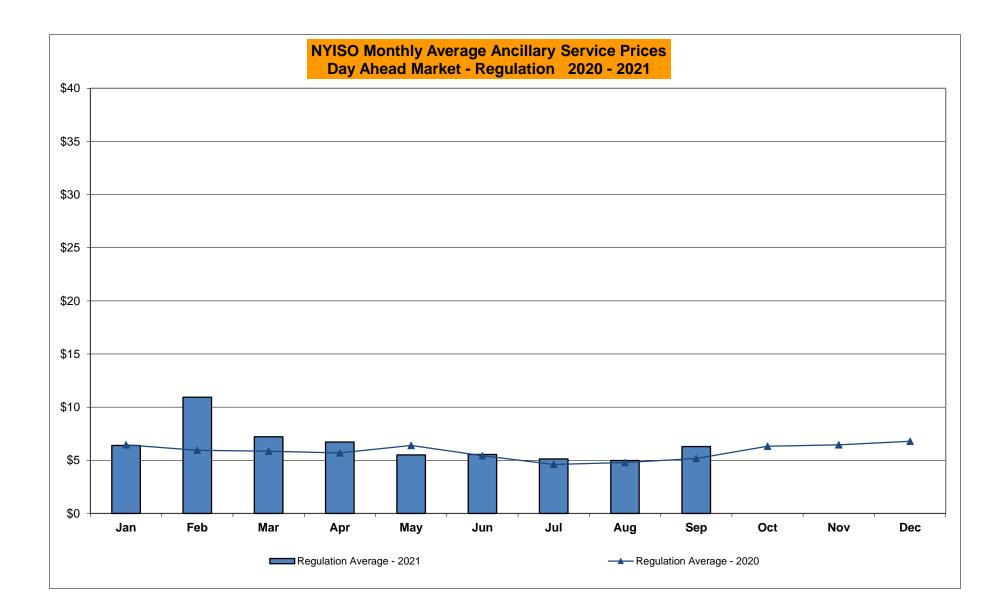
		Virtual L	oad Bid Not	Virtual S	Not			Virtual L	oad Bid	Virtual Su	Ipply Bid Not			Virtual L	oad Bid Not	Virtual Su	Ipply Bid Not
Zone	Date	Scheduled		Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled		Scheduled	
WEST	Jan-21	6,262	1,726	2,018	1,076	MHK VL	Jan-21	1,537	548	1,967	531	DUNWOD	Jan-21	1,881	2,339	2,000	475
	Feb-21	4,588	1,544	1,842	959		Feb-21	1,031	584	2,081	392		Feb-21	912	1,806	2,015	568
	Mar-21	5,696	840	1,144	893		Mar-21	1,669	305	1,402	524		Mar-21	1,303	817	1,780	1,142
	Apr-21	6,747	1,100	1,948	873		Apr-21	1,741	366	1,982	670		Apr-21	1,519	638	2,166	524
	May-21	7,289	1,632	1,432	630		May-21	1,279		2,009			May-21	3,219	868	1,347	461
	Jun-21	4,916	1,989	1,498	559		Jun-21	1,400	438	1,637	283		Jun-21	2,411	1,770	1,455	233
	Jul-21	3,954	2,328	1,857	1,390		Jul-21	951	412	2,439			Jul-21	2,349	1,494	1,492	488
	Aug-21	4,542	3,007	1,848	1,078		Aug-21	928	532	1,641	337		Aug-21	1,769	1,260	1,158	147
	Sep-21	4,520	2,511	1,473	777		Sep-21	758	447	1,865	660		Sep-21	1,347	718	1,060	60
	Oct-21						Oct-21						Oct-21				
	Nov-21						Nov-21						Nov-21				·
	Dec-21						Dec-21						Dec-21				
GENESE	Jan-21	1,117	329	1,085	853	CAPITL	Jan-21	3,046	1,995	2,207	792	N.Y.C.	Jan-21	3,486	2,580	2,503	679
	Feb-21	857	390	1,310	617		Feb-21	2,483	1,967	2,065	535		Feb-21	1,983	2,475	2,275	678
	Mar-21	817	295	1,433	833		Mar-21		1,581	2,230	1,041		Mar-21	2,149	1,385	2,465	757
	Apr-21	1,396	466	1,251	834		Apr-21	2,770	1,075	3,404	694		Apr-21	2,116	602	3,175	
	May-21	862	431	1,680	486		May-21	1,417	532	2,776			May-21	2,664	678	2,697	532
	Jun-21	653	393	1,426	390		Jun-21	2,396	994	2,144			Jun-21	5,791	1,832	1,941	620
	Jul-21	603	394	2,451	500		Jul-21	1,350	632	2,598	1,069		Jul-21	6,538	2,006	1,898	1,003
_	Aug-21	660	614	1,289	395		Aug-21	1,478	548	2,052	657		Aug-21	7,676	2,095	1,669	1,038
	Sep-21	672	435	1,692	455		Sep-21	1,145	664	1,885	922		Sep-21	5,286	2,466	2,078	571
	Oct-21 Nov-21						Oct-21 Nov-21						Oct-21 Nov-21				
	Dec-21						Dec-21						Dec-21				
NORTH	Jan-21	830	498	3,280	1,220	HUD VL	Jan-21	1,666	1,215	5,917	7,429	LONGIL	Jan-21	4,341	4,976	3,261	686
	Feb-21	405	410	2,654	1,258		Feb-21	1,685	1,148	4,967	2,247		Feb-21	3,899	3,560	1,758	862
	Mar-21	641	125	3,152	2,052		Mar-21	1,013		5,555			Mar-21	4,846	2,196	2,232	1,195
	Apr-21	1,031	278	3,310	1,622	_	Apr-21	1,096	411	6,547	5,166		Apr-21	6,288	1,581	2,121	631
	May-21	1,041	164	3,171	1,703		May-21	1,658	425	5,040	8,201		May-21	6,112	1,898	1,422	
	Jun-21	1,051	294	2,897	1,454		Jun-21	1,758	692	7,862	7,556		Jun-21	6,451	3,532	1,082	663
	Jul-21	839	217	2,827	1,134		Jul-21	934	547	7,395	5,215		Jul-21	5,218	3,792	1,279	583
	Aug-21	876	525	2,125	733		Aug-21	1,199	533	5,596	798		Aug-21	2,406	2,764	1,740	354
	Sep-21	696	462	2,757	1,413		Sep-21	1,091	498	5,982	2,490		Sep-21	3,229	1,448	1,253	300
	Oct-21						Oct-21						Oct-21				
	Nov-21						Nov-21						Nov-21				
	Dec-21						Dec-21						Dec-21				, 
CENTRL	Jan-21	2,124	938	28,034	1,094	MILLWD	Jan-21	1,368	672	1,820	139	NYISO	Jan-21	27,659	17,816	54,093	14,973
•=	Feb-21	1,357	1,102	27,531	954		Feb-21	530		1,463			Feb-21	19,732	15,526	49,963	9,186
	Mar-21	2,108	541	24,874	888		Mar-21		240	1,732			Mar-21	24,164	8,780	47,999	12,586
	Apr-21	3,179	941	25,006	1,249		Apr-21	775		2,106			Apr-21	28,658	7,818	53,015	13,052
	May-21	1,973	708	27,134	433	_	May-21	1,245	245	1,386			May-21	28,758	7,933	50,094	14,836
	Jun-21	1,508	672	27,029	512	_	Jun-21	2,049		1,203			Jun-21	30,385	13,112	50,174	12,992
	Jul-21	974	820	27,958	965		Jul-21	3,381	822	1,292	293		Jul-21	27,090	13,465	53,486	13,053
	Aug-21	1,269	1,070	9,724	646		Aug-21	2,800	650	1,197	259		Aug-21	25,602	13,598	30,040	6,443
	Sep-21	1,031	831	1,870	591		Sep-21	1,750		1,335			Sep-21	21,526	11,116	23,251	8,474
	Oct-21						Oct-21						Oct-21				
	Nov-21						Nov-21						Nov-21				
	Dec-21						Dec-21						Dec-21				

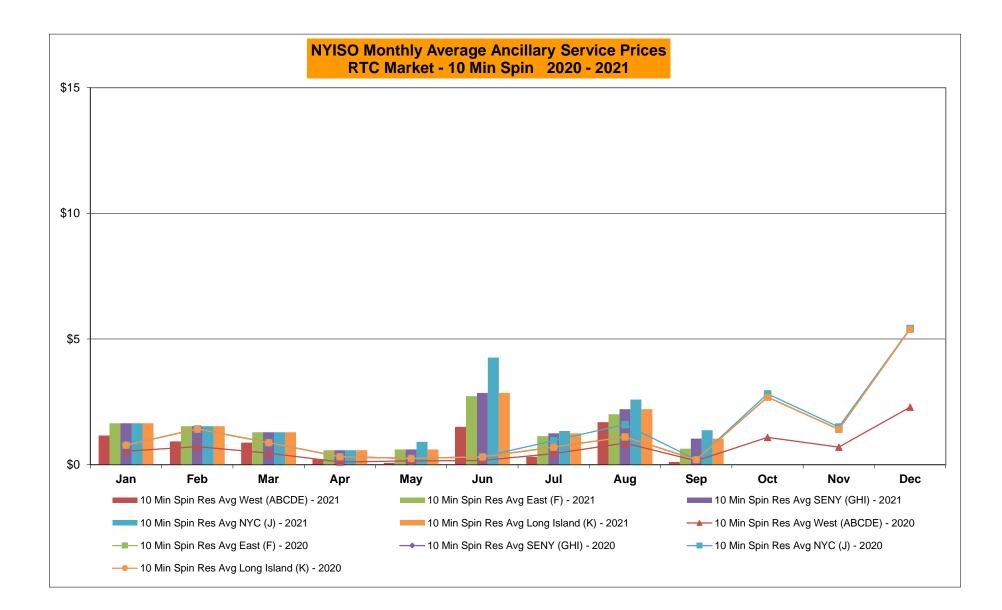


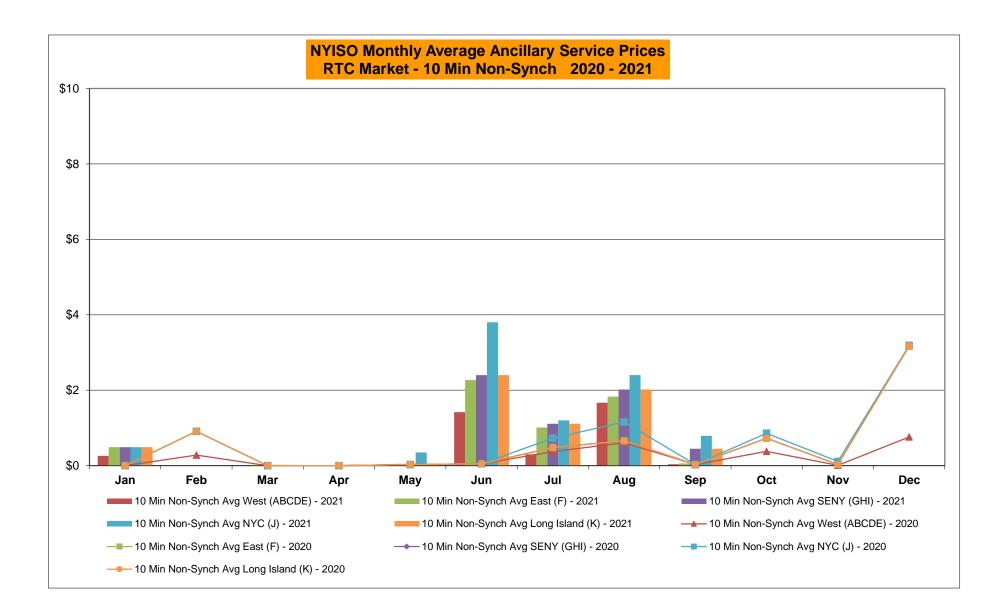


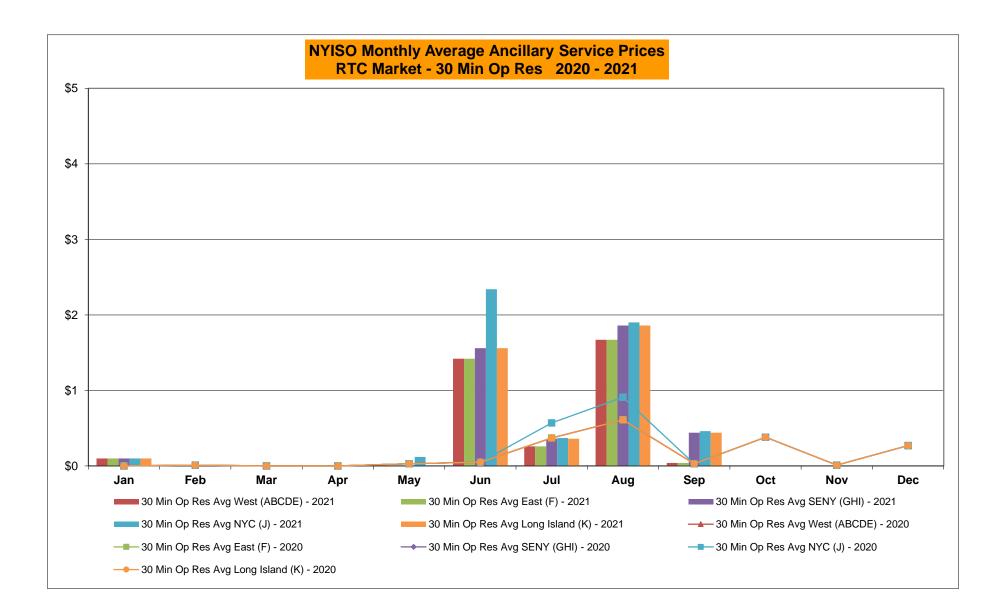


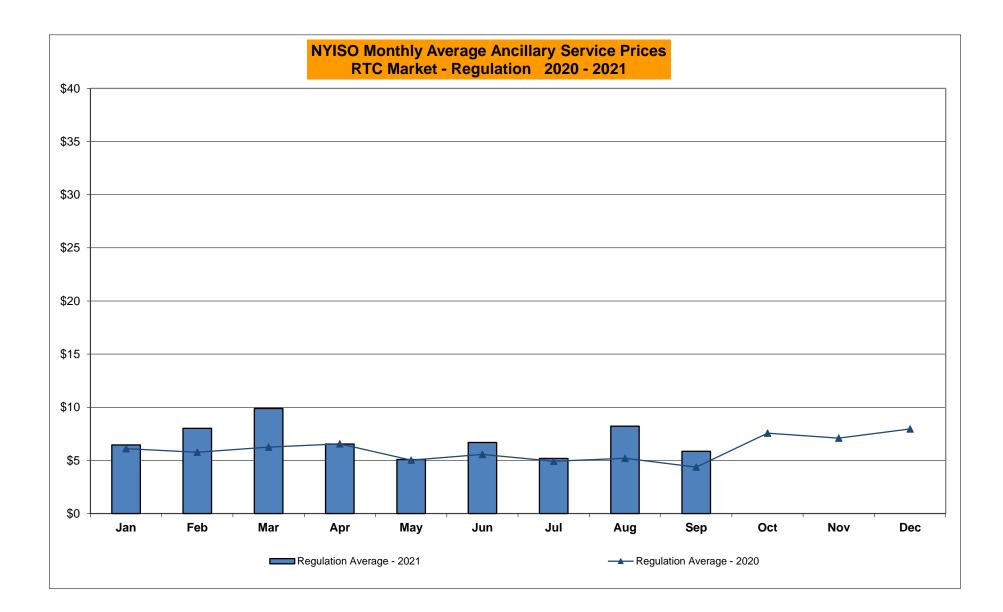


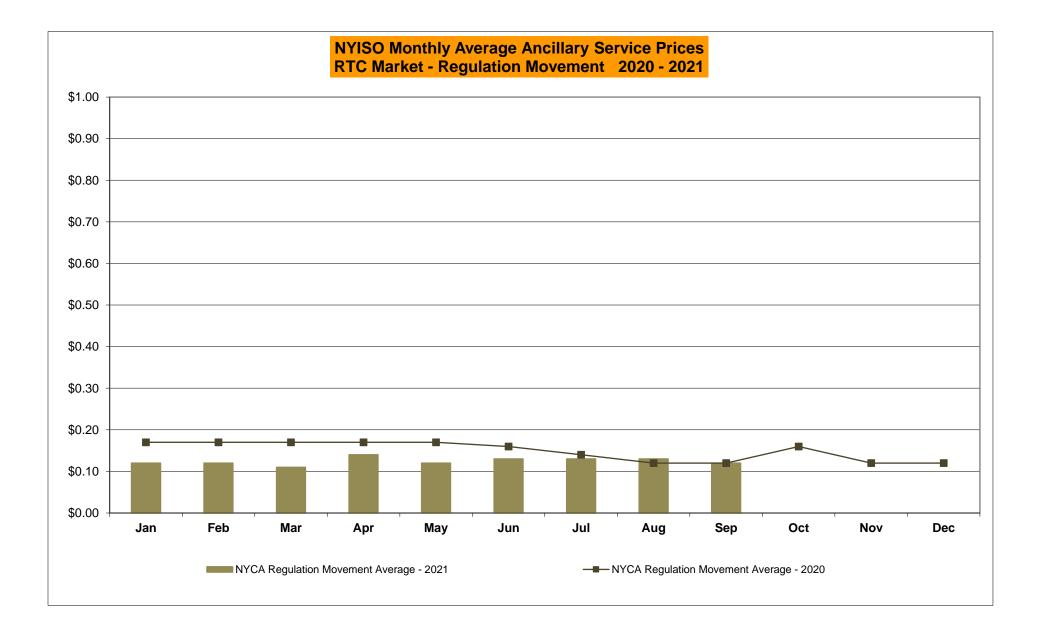


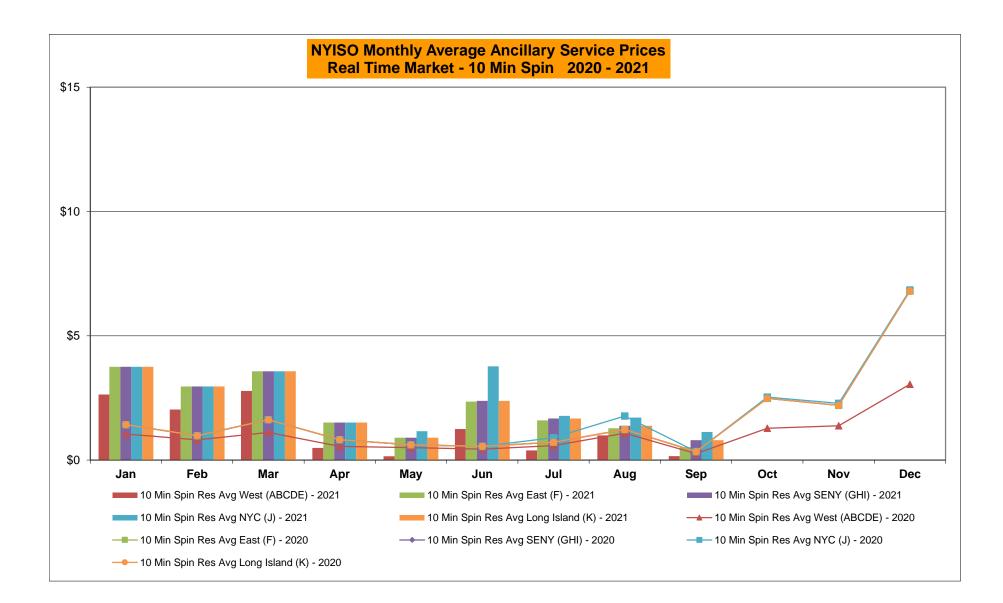


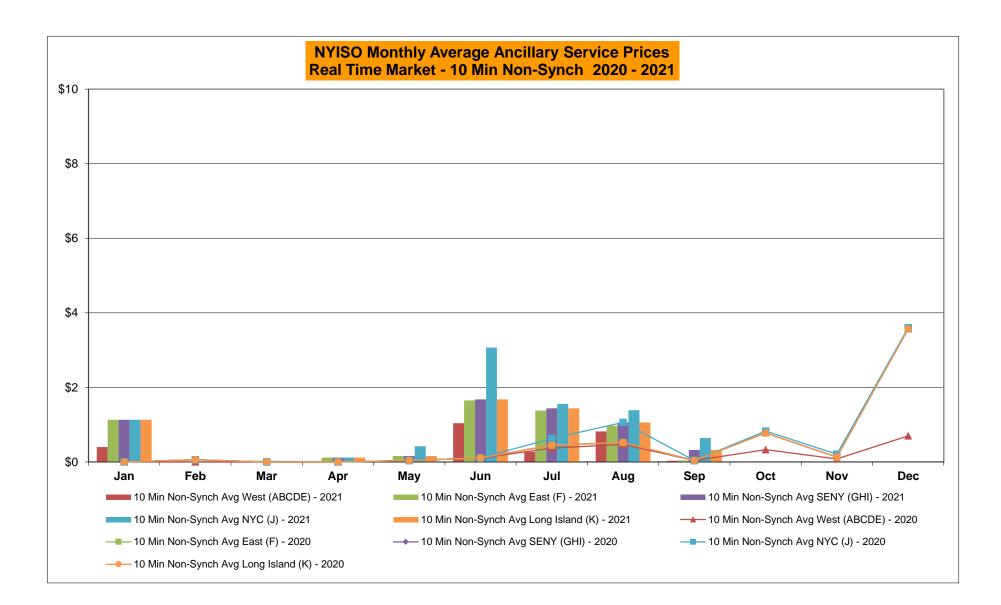


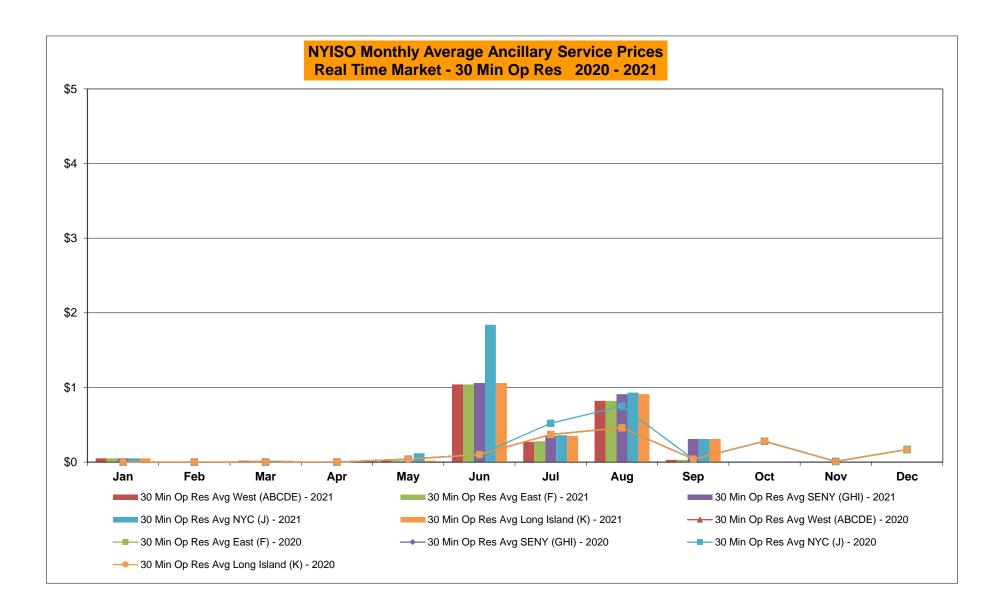


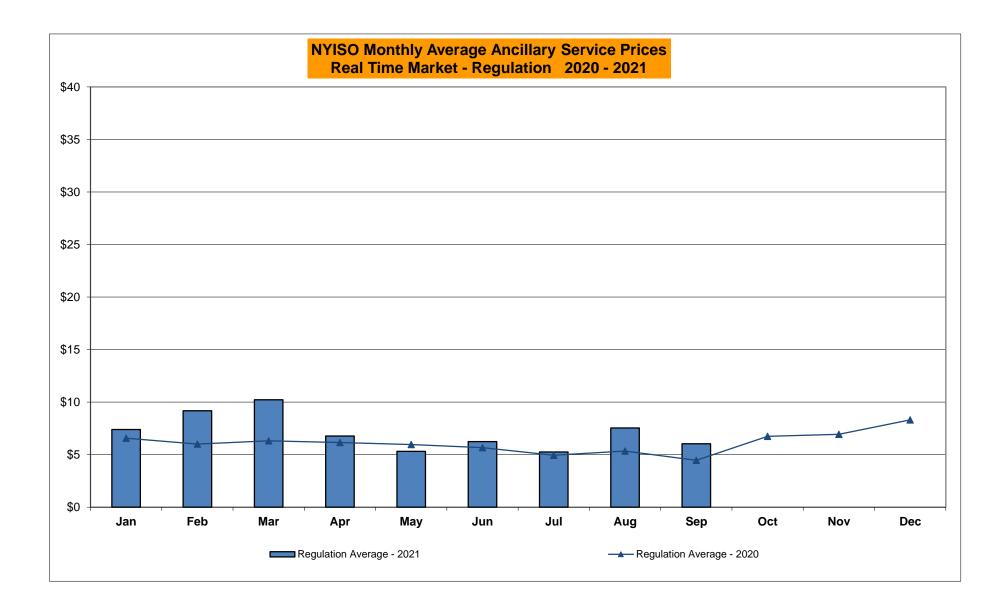


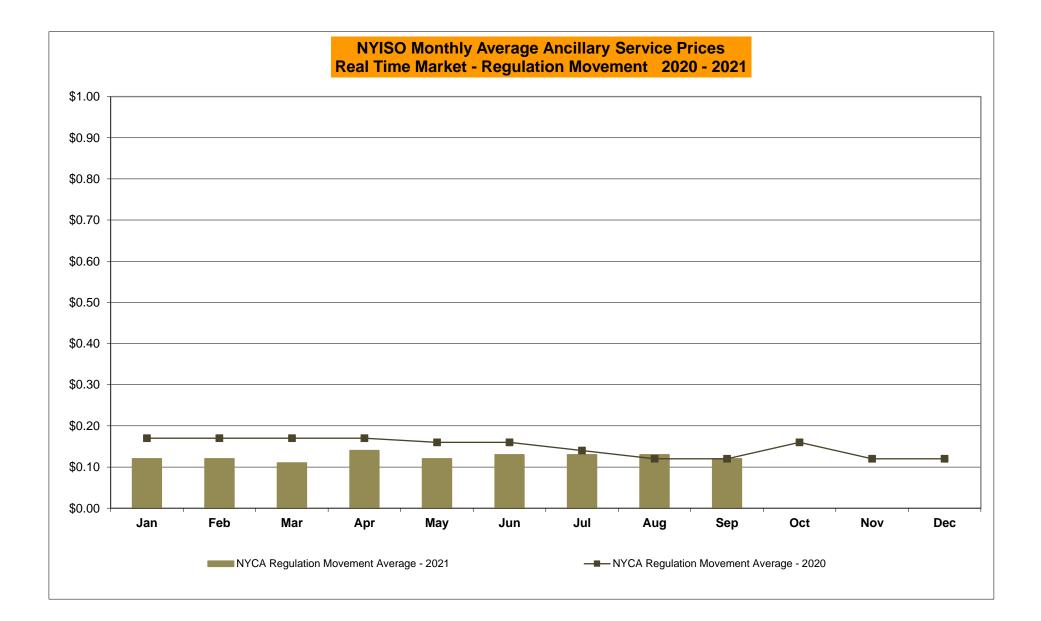












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2021	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	<u>September</u>	(
Day Ahead Market		<i>+</i>			<u>+</u>			<u> </u>		_
10 Min Spin Long Island (K)	4.61	7.85	4.46	3.80	3.78	3.91	3.80	4.06	4.05	
10 Min Spin NYC (J)	4.68	8.01	4.46	3.81	3.80	4.38	4.14	4.51	4.19	
10 Min Spin SENY (GHI)	4.61	7.85	4.46	3.80	3.78	3.91	3.80	4.06	4.05	
10 Min Spin East (F)	4.61	7.85	4.46	3.80	3.78	3.89	3.64	3.87	3.92	
10 Min Spin West (ABCDE)	4.01	6.68	4.07	3.56	3.43	3.64	3.40	3.54	3.62	
10 Min Non Synch Long Island (K)	3.32	5.58	3.60	3.25	3.27	3.47	3.46	3.68	3.47	
10 Min Non Synch NYC (J)	3.40	5.74	3.60	3.26	3.30	3.93	3.80	4.14	3.60	
10 Min Non Synch SENY (GHI)	3.32	5.58	3.60	3.25	3.27	3.47	3.46	3.68	3.47	
10 Min Non Synch East (F)	3.32	5.58	3.60	3.25	3.27	3.45	3.31	3.50	3.34	
10 Min Non Synch West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31	3.19	3.31	3.27	
30 Min Long Island (K)	3.22	5.25	3.57	3.19	3.17	3.33	3.34	3.49	3.41	
30 Min NYC (J)	3.23	5.25	3.57	3.19	3.18	3.53	3.40	3.62	3.41	
30 Min SENY (GHI)	3.22	5.25	3.57	3.19	3.17	3.33	3.34	3.49	3.41	
30 Min East (F)	3.22	5.25	3.57	3.19	3.17	3.31	3.19	3.31	3.27	
30 Min West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31	3.19	3.31	3.27	
Regulation	6.40	10.93	7.21	6.72	5.50	5.55	5.13	4.98	6.29	
<u>2020</u>	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>(</u>
Day Ahead Market										
10 Min Spin Long Island (K)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	
10 Min Spin NYC (J)	3.60	3.23	3.55	3.27	3.48	3.64	4.00	3.74	3.63	
10 Min Spin SENY (GHI)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	
10 Min Spin East (F)	3.60	3.23	3.55	3.27	3.48	3.59	3.59	3.63	3.63	
10 Min Spin West (ABCDE)	3.57	3.22	3.43	3.25	3.39	3.51	3.55	3.59	3.58	
10 Min Non Synch Long Island (K)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	
10 Min Non Synch NYC (J)	3.28	3.08	2.95	2.95	2.94	3.17	3.61	3.17	2.66	
10 Min Non Synch SENY (GHI)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	
10 Min Non Synch East (F)	3.28	3.08	2.95	2.95	2.94	3.11	3.21	3.06	2.66	
10 Min Non Synch West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
30 Min Long Island (K)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
30 Min NYC (J)	3.28	3.08	2.95	2.94	2.93	3.10	3.31	3.05	2.63	
30 Min SENY (GHI)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
30 Min East (F)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
30 Min West (ABCDE)	3.28	3.08	2.95	2.94	2.93	3.10	3.18	3.04	2.63	
Regulation	6.46	5.94	5.86	5.70	6.40	5.44	4.61	4.79	5.17	

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

<u>October</u>

<u>November</u>

<u>December</u>

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

Provide a state of the second s	<u>2021</u>	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	(
10 Min Spin N°C (J)         1.65         1.53         1.29         0.58         0.61         2.26         1.34         2.59         1.37           10 Min Spin SENY (GHI)         1.65         1.53         1.29         0.58         0.61         2.73         1.14         2.01         0.64           10 Min Spin West (ABCDE)         1.16         0.93         0.88         0.22         0.07         1.51         0.32         1.69         0.11           10 Min Non Synch INTC (J)         0.49         0.00         0.02         0.00         0.55         2.40         1.11         2.02         0.45           10 Min Non Synch NYC (J)         0.49         0.00         0.02         0.00         0.05         2.40         1.11         2.02         0.45           10 Min Non Synch Kest (ABCDE)         0.26         0.00         0.01         0.00         0.05         2.27         1.01         1.83         0.64           30 Min Long Island (K)         0.10         0.00         0.01         0.00         0.00         1.56         0.36         1.86         0.44           30 Min NSENY (GHI)         0.10         0.00         0.01         0.00         1.56         0.36         1.86         0.44	RTC Market										
10 Min Spin SENY (CHI)         1.65         1.53         1.29         0.58         0.61         2.73         1.14         2.01         0.64           10 Min Spin East (F)         1.65         1.53         1.29         0.58         0.61         2.73         1.14         2.01         0.64           10 Min Spin West (ABCDE)         1.16         0.93         0.88         0.22         0.07         1.51         0.32         1.69         0.111           10 Min Non Synch Long Island (K)         0.49         0.00         0.02         0.00         0.55         2.40         1.11         2.02         0.45           10 Min Non Synch SENY (GHI)         0.49         0.00         0.02         0.00         0.05         2.40         1.11         2.02         0.45           10 Min Non Synch West (ABCDE)         0.26         0.00         0.01         0.00         0.05         2.47         1.01         1.83         0.66           30 Min Long Island (K)         0.10         0.00         0.01         0.00         0.01         1.42         0.30         1.86         0.44           30 Min Server (SHI)         0.10         0.00         0.01         0.00         0.01         1.42         0.46         3.46	10 Min Spin Long Island (K)	1.65	1.53	1.29	0.58	0.61	2.86	1.25	2.21	1.04	
10 Min Spin East (F)         1.65         1.53         1.29         0.58         0.61         2.73         1.14         2.01         0.64           10 Min Spin West (ABCDE)         1.16         0.93         0.88         0.22         0.07         1.51         0.32         1.69         0.11           10 Min Non Synch NYC (J)         0.49         0.00         0.02         0.00         0.35         3.80         1.20         2.44         0.73           10 Min Non Synch Exst (F)         0.49         0.00         0.02         0.00         0.05         2.40         1.11         2.02         4.45           10 Min Non Synch East (F)         0.49         0.00         0.02         0.00         0.05         2.40         1.11         2.02         4.45           30 Min Long Island (K)         0.10         0.00         0.01         0.00         0.01         1.42         0.30         1.67         0.44           30 Min Long Island (K)         0.10         0.00         0.01         0.00         1.142         0.36         1.86         0.44           30 Min Long Island (K)         0.10         0.00         0.01         0.00         1.42         0.26         1.67         0.44           30	10 Min Spin NYC (J)	1.65	1.53	1.29	0.58	0.91	4.26	1.34	2.59	1.37	
10 Min Spin West (ÅBCDE)       1.16       0.93       0.88       0.22       0.07       1.51       0.32       1.69       0.11         10 Min Non Synch Long Island (K)       0.49       0.00       0.02       0.00       0.05       2.40       1.11       2.02       0.45         10 Min Non Synch SteNY (GHI)       0.49       0.00       0.02       0.00       0.05       2.40       1.11       2.02       0.45         10 Min Non Synch SteNY (GHI)       0.49       0.00       0.02       0.00       0.05       2.40       1.11       2.02       0.45         10 Min Non Synch West (ÅBCDE)       0.26       0.00       0.01       0.00       0.05       2.27       1.01       1.83       0.06         30 Min Long Island (K)       0.10       0.00       0.01       0.00       0.02       2.36       0.36       1.86       0.44         30 Min East (F)       0.10       0.00       0.01       0.00       0.14       0.26       1.67       0.46         30 Min East (F)       0.10       0.00       0.01       0.00       1.42       0.26       1.67       0.44         30 Min East (F)       0.10       0.00       0.11       0.10       0.00       1.42	10 Min Spin SENY (GHI)	1.65	1.53	1.29	0.58	0.61	2.86	1.25	2.21	1.04	
10 Min Non Synch Long Island (K)       0.49       0.00       0.02       0.00       0.05       2.40       1.11       2.02       0.45         10 Min Non Synch NYC (J)       0.49       0.00       0.02       0.00       0.35       3.80       1.20       2.40       0.79         10 Min Non Synch SENY (GHI)       0.49       0.00       0.02       0.00       0.05       2.27       1.01       1.83       0.06         10 Min Non Synch East (F)       0.26       0.00       0.01       0.00       1.42       0.30       1.67       0.04         30 Min Long Island (K)       0.10       0.00       0.01       0.00       0.12       2.34       0.36       1.86       0.44         30 Min SENY (GHI)       0.10       0.00       0.01       0.00       1.42       0.26       1.67       0.04         30 Min East (F)       0.10       0.00       0.01       0.00       1.42       0.26       1.67       0.04         Regulation       6.46       8.02       9.88       6.54       5.08       6.69       5.18       8.22       5.86         NYCA Regulation Movement       0.12       0.11       0.14       0.13       0.13       0.13       0.13	10 Min Spin East (F)	1.65	1.53	1.29	0.58	0.61	2.73	1.14	2.01	0.64	
10 Min Non Synch NYČ (J)       0.49       0.00       0.02       0.00       0.35       3.80       1.20       2.40       0.79         10 Min Non Synch Sext (F)       0.49       0.00       0.02       0.00       0.05       2.40       1.11       2.02       0.45         10 Min Non Synch Sext (F)       0.49       0.00       0.02       0.00       0.05       2.40       1.11       2.02       0.45         10 Min Non Synch West (ABCDE)       0.26       0.00       0.01       0.00       1.42       0.30       1.67       0.04         30 Min NYC (J)       0.10       0.00       0.01       0.00       0.16       0.36       1.86       0.44         30 Min SENY (GHI)       0.10       0.00       0.01       0.00       1.67       0.04         30 Min SENY (GHI)       0.10       0.00       0.01       0.00       1.42       0.26       1.67       0.04         30 Min Eaxt (F)       0.10       0.00       0.01       0.00       1.42       0.26       1.67       0.04         Regulation       6.46       8.02       9.88       6.54       5.08       6.69       5.18       8.22       5.86         NYCA Regulation Movement       0.12	10 Min Spin West (ABCDE)	1.16	0.93	0.88	0.22	0.07	1.51	0.32	1.69	0.11	
10 Min Non Synch SENY (GHI)         0.49         0.00         0.02         0.00         0.05         2.40         1.11         2.02         0.45           10 Min Non Synch East (F)         0.49         0.00         0.02         0.00         0.05         2.27         1.01         1.83         0.06           10 Min Non Synch West (ABCDE)         0.26         0.00         0.01         0.00         0.00         1.42         0.30         1.57         0.04           30 Min Long Island (K)         0.10         0.00         0.01         0.00         0.01         2.34         0.37         1.90         0.46           30 Min SENY (GHI)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min SENY (GHD)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min SENY (GHDE)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min SENY (GHDE)         0.10         0.00         0.01         1.00         1.00         1.42         0.26         1.61         0.70	10 Min Non Synch Long Island (K)	0.49	0.00	0.02	0.00	0.05	2.40	1.11	2.02	0.45	
10 Min Non Synch East (F)         0.49         0.00         0.02         0.00         0.05         2.27         1.01         1.83         0.06           10 Min Non Synch West (ABCDE)         0.26         0.00         0.01         0.00         0.00         1.42         0.30         1.67         0.04           30 Min Non Synch West (ABCDE)         0.26         0.00         0.01         0.00         0.00         1.56         0.36         1.86         0.04           30 Min NYC (J)         0.10         0.00         0.01         0.00         0.12         2.34         0.37         1.90         0.46           30 Min East (F)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min West (ABCDE)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min Set Y (ABCDE)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           Regulation         Movement         0.12         0.11         0.14         0.12         0.13         0.13         0.13         0.12	10 Min Non Synch NYC (J)	0.49	0.00	0.02	0.00	0.35	3.80	1.20	2.40	0.79	
10 Min Non Synch West (ÅBCDE)       0.26       0.00       0.01       0.00       1.42       0.30       1.67       0.04         30 Min Long Island (K)       0.10       0.00       0.01       0.00       0.00       1.56       0.36       1.86       0.44         30 Min NYC (J)       0.10       0.00       0.01       0.00       0.12       2.34       0.37       1.90       0.46         30 Min SENV (GHI)       0.10       0.00       0.01       0.00       0.00       1.42       0.26       1.67       0.04         30 Min Vest (ÅBCDE)       0.10       0.00       0.01       0.00       0.00       1.42       0.26       1.67       0.04         30 Min West (ÅBCDE)       0.10       0.00       0.01       0.00       0.00       1.42       0.26       1.67       0.04         30 Min West (ÅBCDE)       0.10       0.00       0.01       0.00       0.01       1.42       0.26       1.67       0.04         30 Min Seix (ABCDE)       0.12       0.12       0.11       0.14       0.12       0.13       0.13       0.13       0.12         2020       Izanuary       February       March       April       May       June       July <td>10 Min Non Synch SENY (GHI)</td> <td>0.49</td> <td>0.00</td> <td>0.02</td> <td>0.00</td> <td>0.05</td> <td>2.40</td> <td>1.11</td> <td>2.02</td> <td>0.45</td> <td></td>	10 Min Non Synch SENY (GHI)	0.49	0.00	0.02	0.00	0.05	2.40	1.11	2.02	0.45	
30 Min Long Island (K)         0.10         0.00         0.01         0.00         1.56         0.36         1.86         0.44           30 Min NYC (J)         0.10         0.00         0.01         0.00         0.12         2.34         0.37         1.90         0.46           30 Min NYC (J)         0.10         0.00         0.01         0.00         0.00         1.56         0.36         1.86         0.44           30 Min SENY (GHI)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min West (ABCDE)         0.10         0.00         0.01         0.00         0.01         1.22         1.1         0.14         0.12         0.13         0.13         0.13         0.13         0.12         0.12         0.11         0.14         0.12         0.13         0.13         0.12         0.26         0.31         0.70         1.11         0.20           2020         January         February         March         April         May         June         July         August         September           10 Min Spin NYC (J)         0.78         1.42         0.88         0.32         0.25         0.31	10 Min Non Synch East (F)	0.49	0.00	0.02	0.00	0.05	2.27	1.01	1.83	0.06	
30 Min NYC (J)         0.10         0.00         0.01         0.00         0.12         2.34         0.37         1.90         0.46           30 Min SENY (GHI)         0.10         0.00         0.01         0.00         0.00         1.56         0.36         1.86         0.44           30 Min SENY (GHI)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min West (ABCDE)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           Regulation         6.46         8.02         9.88         6.54         5.08         6.69         5.18         8.22         5.86           NYCA Regulation Movement         0.12         0.12         0.11         0.14         0.12         0.13         0.13         0.13         0.13         0.12           2020         January         February         March         April         May         June         July         August         September           10 Min Spin Long Island (K)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20     <	10 Min Non Synch West (ABCDE)	0.26	0.00	0.01	0.00	0.00	1.42	0.30	1.67	0.04	
30 Min SENY (GHI)         0.10         0.00         0.01         0.00         1.56         0.36         1.86         0.44           30 Min East (F)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min West (ABCDE)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           Regulation         6.46         8.02         9.88         6.54         5.08         6.69         5.18         8.22         5.86           NYCA Regulation Movement         0.12         0.12         0.11         0.14         0.12         0.13         0.13         0.13         0.12           Contents         1.2         0.11         0.14         0.12         0.13         0.13         0.13         0.12           One many         February         March         April         May         June         July         August         September           RTC Market         1         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin SENY (GHI)         0.78	30 Min Long Island (K)	0.10	0.00	0.01	0.00	0.00	1.56	0.36	1.86	0.44	
30 Min East (F)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           30 Min West (ABCDE)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           Regulation         6.46         8.02         9.88         6.54         5.08         6.69         5.18         8.22         5.86           NYCA Regulation Movement         0.12         0.12         0.11         0.14         0.12         0.13         0.13         0.13         0.12           ZO20         January         February         March         April         May         June         July         August         September           RTC Market         10 Min Spin Long Island (K)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin SENY (GHI)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin West (ABCDE)         0.54         0.72         0.46         0.11         0.15         0.17         0.44         0.86 </td <td>30 Min NYC (J)</td> <td>0.10</td> <td>0.00</td> <td>0.01</td> <td>0.00</td> <td>0.12</td> <td>2.34</td> <td>0.37</td> <td>1.90</td> <td>0.46</td> <td></td>	30 Min NYC (J)	0.10	0.00	0.01	0.00	0.12	2.34	0.37	1.90	0.46	
30 Min West (ÅBCDE)         0.10         0.00         0.01         0.00         0.00         1.42         0.26         1.67         0.04           Regulation         6.46         8.02         9.88         6.54         5.08         6.69         5.18         8.22         5.86           NYCA Regulation Movement         0.12         0.12         0.11         0.14         0.12         0.13         0.13         0.13         0.13         0.12           2020         January         February         March         April         May         June         July         August         September           10 Min Spin Long Island (K)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin SENY (GHI)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin SenY (GHI)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin Kest (ABCDE)         0.54         0.72         0.46         0.11         0.15         0.17         0.44         0.86	30 Min SENY (GHI)	0.10	0.00	0.01	0.00	0.00	1.56	0.36	1.86	0.44	
Regulation NYCA Regulation Movement         6.46         8.02         9.88         6.54         5.08         6.69         5.18         8.22         5.86           NYCA Regulation Movement         0.12         0.12         0.11         0.14         0.12         0.13         0.13         0.13         0.12           2020         January         February         March         April         May         June         July         August         September           10 Min Spin Long Island (K)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin NYC (J)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin SENY (GHI)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin Ket (ABCDE)         0.54         0.72         0.46         0.11         0.15         0.17         0.44         0.86         0.03           10 Min Non Synch Long Island (K)         0.00         0.95         0.00         0.00         0.05         0.48         0.66         0.03<	30 Min East (F)	0.10	0.00	0.01	0.00	0.00	1.42	0.26	1.67	0.04	
NYČA Regulation Movement         0.12         0.12         0.11         0.14         0.12         0.13         0	30 Min West (ABCDE)	0.10	0.00	0.01	0.00	0.00	1.42	0.26	1.67	0.04	
2020         January         February         March         April         May         June         July         August         September           RTC Market         10 Min Spin Long Island (K)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin Long Island (K)         0.78         1.46         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin SENY (GHI)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin SENY (GHI)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin East (F)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Non Synch Long Island (K)         0.00         0.91         0.00         0.03         0.05         0.48         0.66         0.03           10 Min Non Synch NYC (J)         0.00         0.91         0.00         0.03         0.05         0.48         0.66         0.03 <td>Regulation</td> <td>6.46</td> <td>8.02</td> <td>9.88</td> <td>6.54</td> <td>5.08</td> <td>6.69</td> <td>5.18</td> <td>8.22</td> <td>5.86</td> <td></td>	Regulation	6.46	8.02	9.88	6.54	5.08	6.69	5.18	8.22	5.86	
RTC Market           10 Min Spin Long Island (K)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin NYC (J)         0.78         1.46         0.88         0.32         0.26         0.31         0.96         1.60         0.20           10 Min Spin SENY (GHI)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin East (F)         0.78         1.42         0.88         0.32         0.25         0.31         0.70         1.11         0.20           10 Min Spin West (ABCDE)         0.54         0.72         0.46         0.11         0.15         0.17         0.44         0.86         0.16           10 Min Non Synch Long Island (K)         0.00         0.91         0.00         0.03         0.05         0.48         0.66         0.03           10 Min Non Synch SENY (GHI)         0.00         0.91         0.00         0.00         0.03         0.05         0.48         0.66         0.03           10 Min Non Synch SENY (GHI)         0.00         0.91         0.00         0.00         0.03         0.05         0.48<	NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13	0.13	0.13	0.12	
10 Min Spin Long Island (K)0.781.420.880.320.250.310.701.110.2010 Min Spin NYC (J)0.781.460.880.320.260.310.961.600.2010 Min Spin SENY (GHI)0.781.420.880.320.250.310.701.110.2010 Min Spin East (F)0.781.420.880.320.250.310.701.110.2010 Min Spin East (F)0.781.420.880.320.250.310.701.110.2010 Min Spin West (ABCDE)0.540.720.460.110.150.170.440.860.1610 Min Non Synch Long Island (K)0.000.910.000.000.030.050.480.660.0310 Min Non Synch SENY (GHI)0.000.910.000.000.040.060.731.160.0310 Min Non Synch SENY (GHI)0.000.910.000.000.030.050.480.660.0310 Min Non Synch Kest (ABCDE)0.000.910.000.000.030.050.370.610.0310 Min Non Synch West (ABCDE)0.000.010.000.000.030.050.370.610.0330 Min Long Island (K)0.000.010.000.000.030.050.370.610.0330 Min Long Island (K)0.000.010.000.000.030.050.5		<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>(</u>
10 Min Spin NYC (J)0.781.460.880.320.260.310.961.600.2010 Min Spin SENY (GHI)0.781.420.880.320.250.310.701.110.2010 Min Spin East (F)0.781.420.880.320.250.310.701.110.2010 Min Spin West (ABCDE)0.540.720.460.110.150.170.440.860.1610 Min Non Synch Long Island (K)0.000.910.000.000.030.050.480.660.0310 Min Non Synch NYC (J)0.000.950.000.000.040.060.731.160.0310 Min Non Synch SENY (GHI)0.000.910.000.000.030.050.480.660.0310 Min Non Synch Kest (ABCDE)0.000.910.000.000.030.050.480.660.0310 Min Non Synch Kest (ABCDE)0.000.910.000.000.030.050.480.660.0310 Min Non Synch Kest (ABCDE)0.000.910.000.000.030.050.370.610.0330 Min Long Island (K)0.000.010.000.000.030.050.370.610.0330 Min NYC (J)0.000.010.000.000.030.050.570.910.0330 Min SENY (GHI)0.000.010.000.000.030.050.370.											
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10 Min Spin West (ABCDE)0.540.720.460.110.150.170.440.860.1610 Min Non Synch Long Island (K)0.000.910.000.000.030.050.480.660.0310 Min Non Synch NYC (J)0.000.950.000.000.040.060.731.160.0310 Min Non Synch SENY (GHI)0.000.910.000.000.030.050.480.660.0310 Min Non Synch SENY (GHI)0.000.910.000.000.030.050.480.660.0310 Min Non Synch Kest (F)0.000.910.000.000.030.050.480.660.0310 Min Non Synch West (ABCDE)0.000.910.000.000.030.050.370.610.0330 Min Long Island (K)0.000.010.000.000.030.050.370.610.0330 Min NYC (J)0.000.010.000.000.030.050.570.910.0330 Min SENY (GHI)0.000.010.000.000.030.050.370.610.0330 Min SENY (GHI)0.000.010.000.000.030.050.370.610.03	· · · · · · · · · · · · · · · · · · ·										
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30 Min Long Island (K)       0.00       0.01       0.00       0.00       0.03       0.05       0.37       0.61       0.03         30 Min NYC (J)       0.00       0.01       0.00       0.00       0.03       0.05       0.57       0.91       0.03         30 Min SENY (GHI)       0.00       0.01       0.00       0.00       0.03       0.05       0.37       0.61       0.03	•										
30 Min NYC (J)0.000.010.000.000.030.050.570.910.0330 Min SENY (GHI)0.000.010.000.000.030.050.370.610.03	· · · · · · · · · · · · · · · · · · ·										
30 Min SENY (GHI) 0.00 0.01 0.00 0.00 0.03 0.05 0.37 0.61 0.03											
	30 Min East (F)	0.00	0.01	0.00	0.00	0.03	0.05	0.37	0.61	0.03	
30 Min West (ABCDE)         0.00         0.01         0.00         0.00         0.03         0.05         0.37         0.61         0.03	· · · · · ·										
Regulation         6.11         5.77         6.25         6.56         5.02         5.56         4.92         5.20         4.37	-										
NYCA Regulation Movement         0.17         0.17         0.17         0.17         0.16         0.14         0.12         0.12	NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.17	0.16	0.14	0.12	0.12	

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<u>October</u>

<u>November</u>

December

<u>October</u>	November	<u>December</u>
2.69	1.41	5.40
2.82	1.50	5.42
2.69	1.41	5.40
2.69	1.41	5.40
1.09	0.70	2.29
0.73	0.03	3.17
0.86	0.11	3.19
0.73	0.03	3.17
0.73	0.03	3.17
0.38	0.01	0.76
0.38	0.01	0.27
0.38	0.01	0.27
0.38	0.01	0.27
0.38	0.01	0.27
0.38	0.01	0.27
7.57	7.09	7.96
0.16	0.12	0.12

	NYISO Marl	kets Anci	illary Ser	vices Sta	atistics -	Unweig	hted Pri	<u>ce (\$/M</u>	<u>WH) - RT</u>	
2021	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	
Real Time Market	<u></u>	<u> </u>	<u></u>	<u> </u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	
10 Min Spin Long Island (K)	3.75	2.96	3.57	1.51	0.90	2.38	1.67	1.38	0.80	
10 Min Spin NYC (J)	3.75	2.96	3.57	1.51	1.16	3.77	1.78	1.71	1.13	
10 Min Spin SENY (GHI)	3.75	2.96	3.57	1.51	0.90	2.38	1.67	1.38	0.80	
10 Min Spin East (F)	3.75	2.96	3.57	1.51	0.90	2.35	1.60	1.28	0.52	
10 Min Spin West (ABCDE)	2.64	2.03	2.78	0.49	0.15	1.25	0.39	0.99	0.16	
10 Min Non Synch Long Island (K)	1.13	0.02	0.03	0.12	0.16	1.68	1.44	1.06	0.32	
10 Min Non Synch NYC (J)	1.13	0.02	0.03	0.12	0.42	3.07	1.56	1.39	0.64	
10 Min Non Synch SENY (GHI)	1.13	0.02	0.03	0.12	0.16	1.68	1.44	1.06	0.32	
10 Min Non Synch East (F)	1.13	0.02	0.03	0.12	0.16	1.65	1.38	0.97	0.04	
10 Min Non Synch West (ABCDE)	0.40	0.00	0.02	0.00	0.02	1.04	0.27	0.82	0.03	
30 Min Long Island (K)	0.05	0.00	0.02	0.00	0.02	1.06	0.35	0.91	0.31	
30 Min NYC (J)	0.05	0.00	0.02	0.00	0.12	1.84	0.36	0.93	0.31	
30 Min SENY (GHI)	0.05	0.00	0.02	0.00	0.02	1.06	0.35	0.91	0.31	
30 Min East (F)	0.05	0.00	0.02	0.00	0.02	1.04	0.28	0.82	0.03	
30 Min West (ABCDE)	0.05	0.00	0.02	0.00	0.02	1.04	0.27	0.82	0.03	
Regulation	7.39	9.17	10.23	6.78	5.31	6.24	5.25	7.54	6.03	
NYCA Regulation Movement	0.12	0.12	0.11	0.14	0.12	0.13	0.13	0.13	0.12	
2020	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	
Real Time Market										
10 Min Spin Long Island (K)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	
10 Min Spin NYC (J)	1.42	0.98	1.62	0.82	0.63	0.56	0.90	1.77	0.34	
10 Min Spin SENY (GHI)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	
10 Min Spin East (F)	1.42	0.98	1.62	0.82	0.61	0.55	0.72	1.23	0.34	
10 Min Spin West (ABCDE)	1.05	0.81	1.11	0.55	0.50	0.44	0.58	1.08	0.26	
10 Min Non Synch Long Island (K)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	
10 Min Non Synch NYC (J)	0.00	0.06	0.00	0.00	0.07	0.12	0.63	1.06	0.04	
10 Min Non Synch SENY (GHI)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	
10 Min Non Synch East (F)	0.00	0.06	0.00	0.00	0.04	0.11	0.45	0.52	0.04	
10 Min Non Synch West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.47	0.04	
30 Min Long Island (K)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	
30 Min NYC (J)	0.00	0.00	0.00	0.00	0.04	0.10	0.52	0.75	0.04	
30 Min SENY (GHI)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	
30 Min East (F)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	
30 Min West (ABCDE)	0.00	0.00	0.00	0.00	0.04	0.10	0.37	0.46	0.04	
Regulation	6.57	6.00	6.32	6.16	5.96	5.67	4.94	5.34	4.46	
NYCA Regulation Movement	0.17	0.17	0.17	0.17	0.16	0.16	0.14	0.12	0.12	

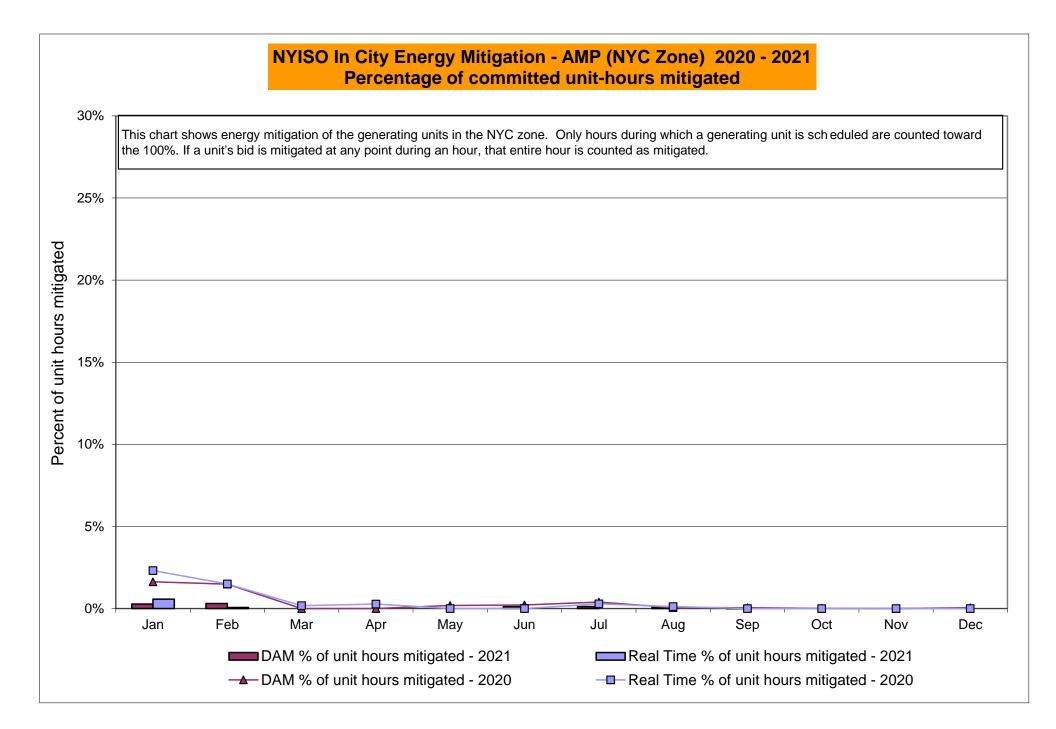
### Market Mitigation and Analysis Prepared: 10/11/2021 4:19 PM

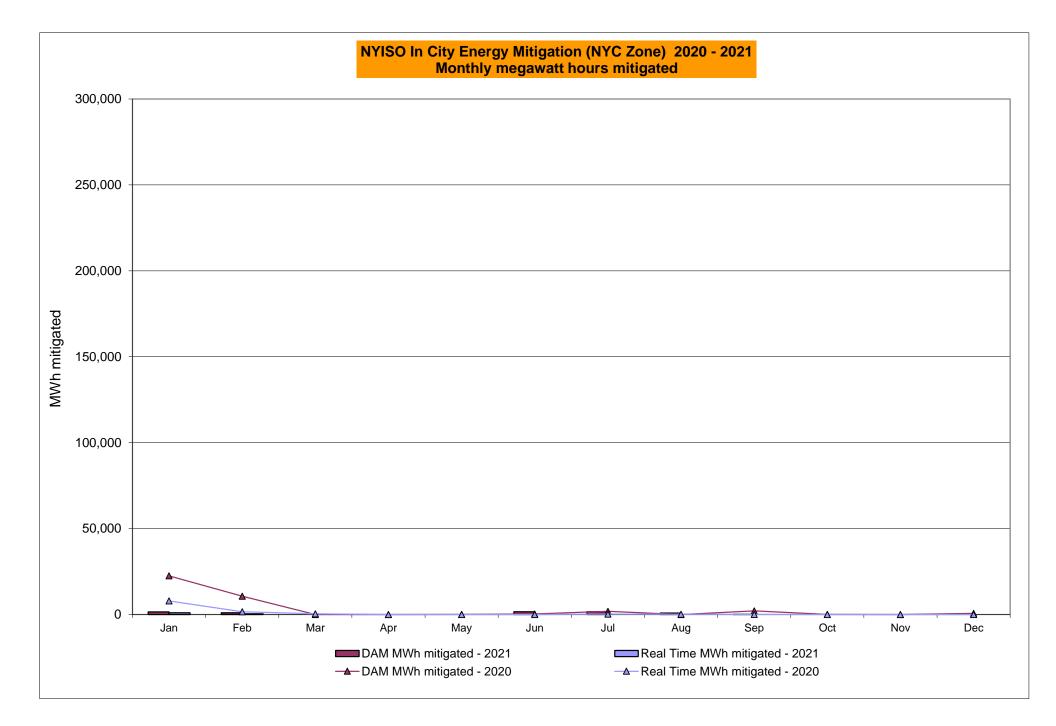
<u>October</u>

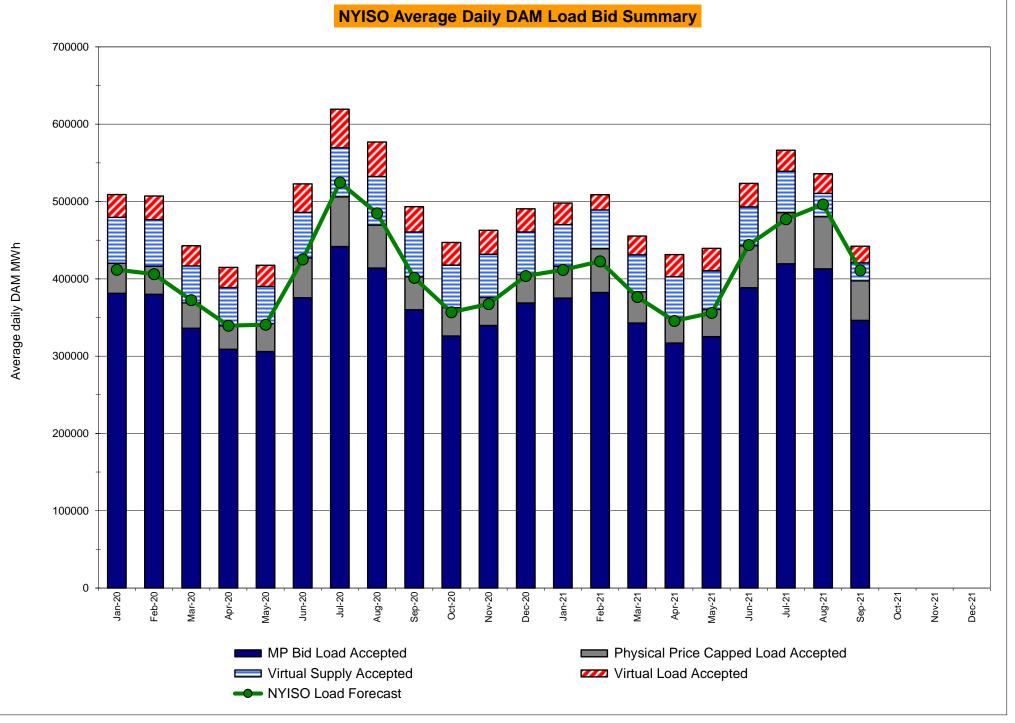
<u>November</u>

December

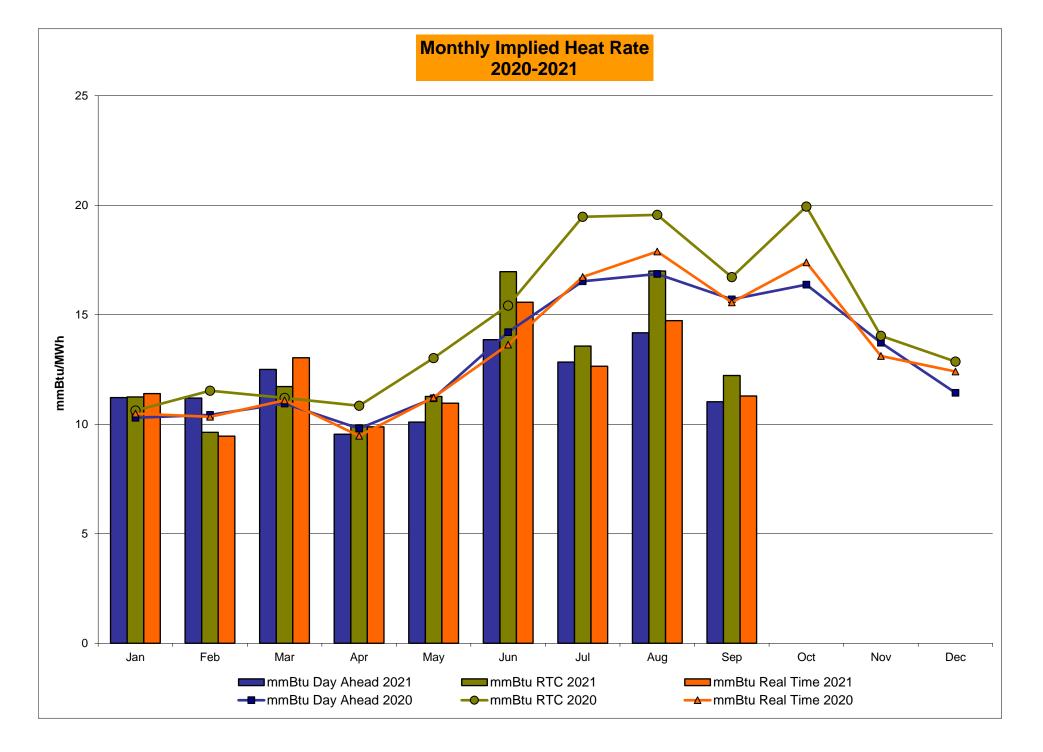
<u>October</u>	November	December
2.48	2.20	6.80
2.53	2.28	6.84
2.48	2.20	6.80
2.48	2.20	6.80
1.28	1.38	3.05
0.78	0.13	3.57
0.83	0.21	3.60
0.78	0.13	3.57
0.78	0.13	3.57
0.33	0.08	0.70
0.28	0.01	0.17
0.28	0.01	0.17
0.28	0.01	0.17
0.28	0.01	0.17
0.28	0.01	0.17
6.75	6.93	8.31
0.16	0.12	0.12



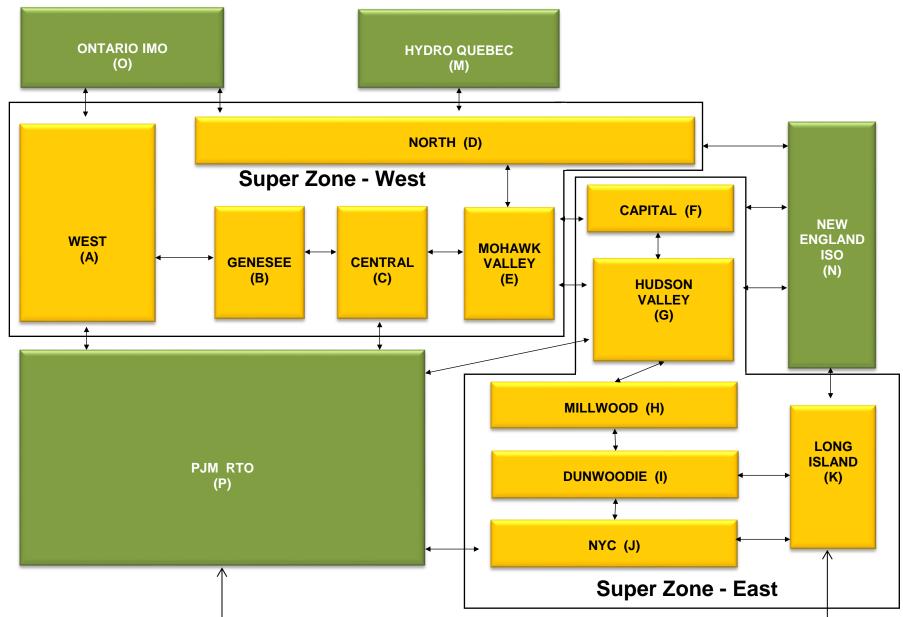




### Market Mitigation and Analysis Prepared: 10/11/2021 4:20 PM



# NYISO LBMP ZONES



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### 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





FINAL

## 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
	NYISO compliance filing related to FERC Order No. 2222 on Distributed Energy Resource aggregation participation in RTO/ISO markets, as directed by FERC's October 1, 2021 Order	ER21-2460-000

### **Recently Issued Orders**

Filing Date	Filing Summary (Order Issued)	Order Date	Order Summary	Docket Number
09/24/2021	NYISO compliance filing of a notice to establish an October 12, 2021 effective date for tariff revisions to enhance TCC Credit Requirements		A letter order accepted the submission, effective 10/12/21 as requested	ER21-486-002
07/28/2021	NYISO-NYSEG joint Section 205 filing of a Transmission Project Interconnection Agreement among NYISO, NYSEG and NextEra for the Empire State Line project		A letter order accepted the submission, effective 7/14/21, as requested	ER21-2534-000
07/29/2021	NYISO-RG&E joint Section 205 filing of an Engineering, Procurement, and Construction Agreement among NYISO, RG&E and NextEra for the Empire State Line project		A letter order accepted the submission, effective 7/15/21, as requested	ER21-2546-000
08/05/2021	NYISO-National Grid joint Section 205 filing of a Small Generator Interconnection Agreement among NYISO, National Grid and SunEast Hilltop Solar		A letter order accepted the submission, effective 7/28/21, as requested	ER21-2612-000
07/19/2021	NYISO compliance filing of tariff revisions directed by FERC Order No. 2222 re: Distributed Energy Resource aggregation participation in RTO/ISO markets		A letter order directed a further compliance filing with additional information	ER21-2460-000 AD20-9-000
08/10/2021	NYISO-National Grid joint Section 205 of a Small Generator Interconnection Agreement among NYISO, National Grid and SunEast Watkins Road Solar		A letter order accepted the submission, effective 7/30/21, as requested	ER21-2639-000

### FINAL **Recently Submitted Filings**

Filing Date	Filing Summary	Docket Number
10/01/2021	NYISO filing of an errata to its 7/27/21 Compliance Filing pertaining to certain NAESB WEQ business practice standards required by FERC Order No. 676	ER21-2526-001 RM05-5-000
10/08/2021	NYISO Section 206 filing of proposed tariff revisions to establish the rules by which a NYTO can exercise its Right of First Refusal regarding upgrades identified in the NYISO's Public Policy Planning Process	EL22- 2-000 ER21-89-000
10/12/2021	NYISO filing of comments in response to the Commission's Advance Notice of Proposed Rulemaking on Regional Transmission Planning and Cost Allocation and Generator Interconnection	RM21-17-000
09/20/2021	NYISO-National Grid joint Section 205 filing of a Small Generator Interconnection Agreement among NYISO, National Grid and SunEast Fairway Solar	ER21-2907-000
09/20/2021	NYISO-National Grid joint Section 205 filing of a Small Generator Interconnection Agreement among NYISO, National Grid and SunEast Hills Solar	ER21-2906-000
09/27/2021	NYISO filing of post-technical conference comments on the Commission's efforts to examine the impacts of climate change and extreme weather events on electric system reliability	AD21-13-000
10/13/2021	NYISO filing of errata to its October 8, 2021 Section 206 filing to update the tariff effective date to coordinate with the FERC-assigned filing date	EL22-2-001 ER22-89-000