

# **Market Operations Report**

# Rana Mukerji

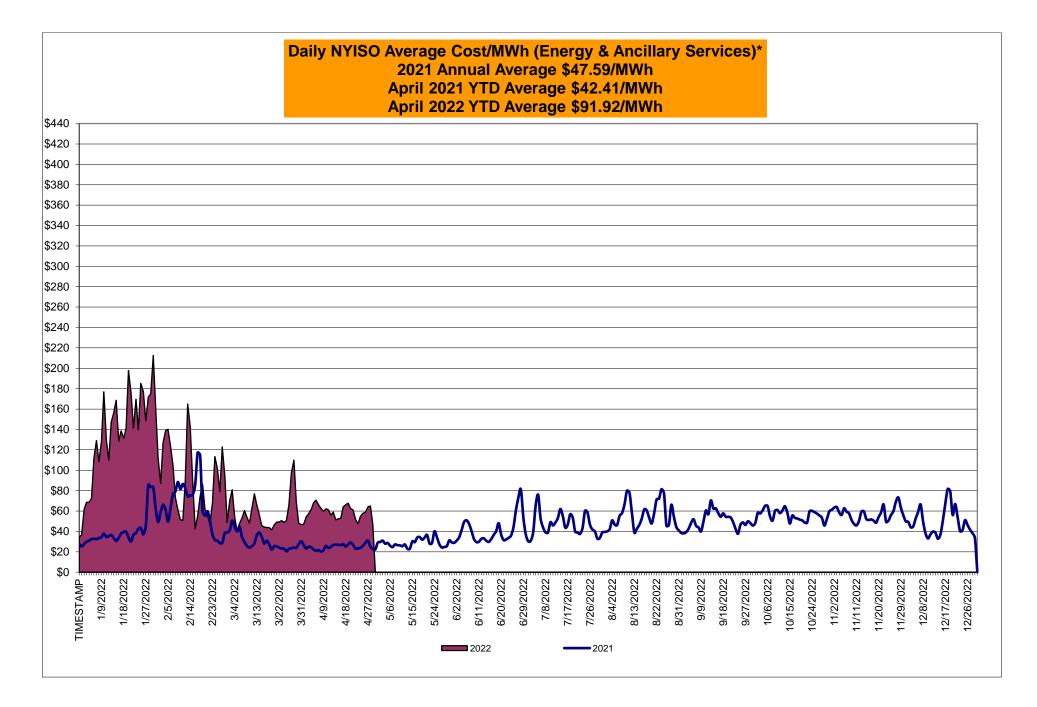
SENIOR VICE PRESIDENT – MARKET STRUCTURES, NYISO

# **Business Issues Committee Meeting**

May 19, 2022 Rensselaer, NY

# Market Performance Highlights April 2022

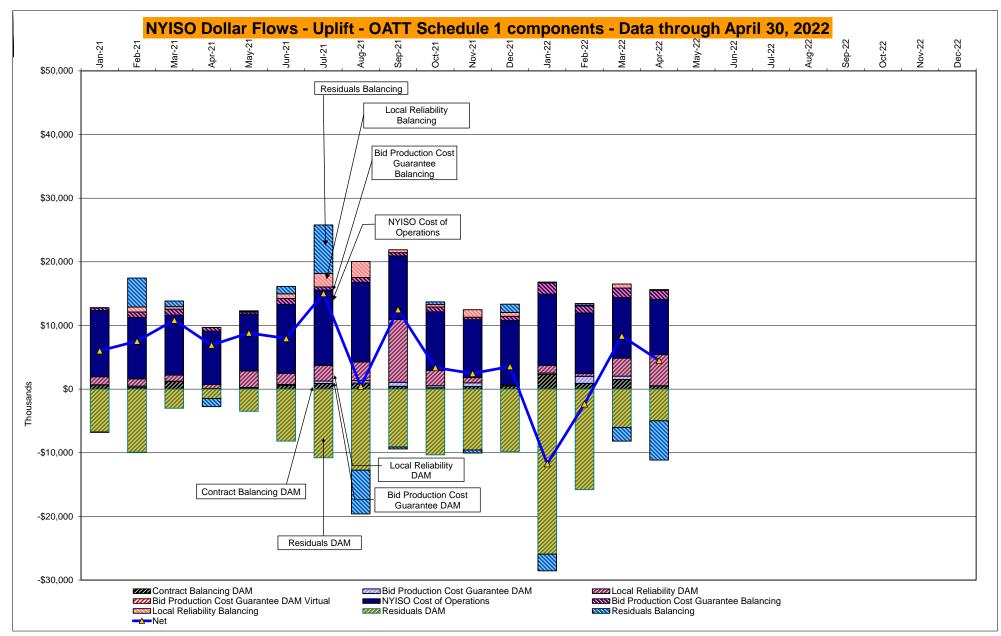
- LBMP for April is \$56.46/MWh; lower than \$56.78/MWh in March 2022 and higher than \$22.79/MWh in April 2021.
  - Day Ahead Load Weighted LBMPs are higher and Real Time Load Weighted LBMPs are lower compared to March.
- April 2022 average year-to-date monthly cost of \$91.92/MWh is a 117% increase from \$42.41/MWh in April 2021.
- Average daily sendout is 359 GWh/day in April; lower than 390 GWh/day in March 2022 and higher than 354 GWh/day in April 2021.
- Natural gas prices and distillate prices are higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$6.13/MMBtu, up from \$4.47/MMBtu in March.
  - Natural gas prices (Transco Z6 NY) are up 187.8% year-over-year.
  - Jet Kerosene Gulf Coast was \$28.51/MMBtu, up from \$25.68/MMBtu in March.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$28.26/MMBtu, up from \$27.02/MMBtu in March.
  - Distillate prices are up 121.9% year-over-year.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.36)/MWh; lower than (\$0.09)/MWh in March.
    - Local Reliability Share is \$0.43/MWh, higher than \$0.27/MWh in March.
    - Statewide Share is (\$0.79)/MWh, lower than (\$0.36)/MWh in March.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than March.



\* Excludes ICAP payments.

2022	January	February	March	<u>April</u>	May	June	July	August	September	October	November	December
LBMP	134.79	94.06	56.78	56.46	Iviay	Julie	July	August	September		November	December
NTAC	1.43	0.95	1.48	1.17								
Reserve	1.46	1.21	0.83	0.81								
Regulation	0.27	0.19	0.17	0.12								
NYISO Cost of Operations	0.73	0.72	0.74	0.74								
FERC Fee Recovery	0.07	0.08	0.09	0.10								
Uplift	(1.50)	(1.73)	(0.09)	(0.36)								
Uplift: Local Reliability Share	0.09	0.04	0.27	0.43								
Uplift: Statewide Share	(1.59)	(1.77)	(0.36)	(0.79)								
Voltage Support and Black Start	0.42	0.41	0.43	0.43								
Avg Monthly Cost	137.41	95.82	60.34	59.38								
0,												
Avg YTD Cost	137.49	118.36	100.65	91.92								
TSA \$ per NYC MWh	0.00	2.98	0.00	0.00								
2021	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	July	<u>August</u>	September	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	37.83	63.70	28.59	22.79	25.72	39.37	45.16	55.48	47.68	52.97	53.92	47.99
NTAC	1.35	1.20	1.26	1.54	2.09	2.05	2.01	1.37	1.23	1.67	2.03	1.40
Reserve	0.49	0.81	0.57	0.56	0.54	0.45	0.44	0.44	0.50	0.75	0.70	0.57
Regulation	0.07	0.13	0.09	0.10	0.08	0.07	0.06	0.05	0.09	0.13	0.15	0.11
NYISO Cost of Operations	0.74	0.74	0.74	0.74	0.76	0.76	0.76	0.76	0.75	0.74	0.75	0.73
FERC Fee Recovery	0.08	0.00										0.00
		0.09	0.09	0.11	0.10	0.08	0.07	0.06	0.08	0.09	0.09	0.08
Uplift	(0.31)	(0.15)	0.11	(0.12)	(0.19)	(0.50)	(0.09)	(0.81)	0.00	(0.59)	(0.58)	(0.48)
Uplift: Local Reliability Share	(0.31) 0.09	(0.15) 0.15	0.11 0.11	(0.12) 0.06	(0.19) 0.22	(0.50) 0.17	(0.09) 0.30	(0.81) 0.33	0.00 0.78	(0.59) 0.23	(0.58) 0.16	(0.48) 0.05
Uplift: Local Reliability Share Uplift: Statewide Share	(0.31) 0.09 (0.40)	(0.15) 0.15 (0.30)	0.11 0.11 0.00	(0.12) 0.06 (0.18)	(0.19) 0.22 (0.41)	(0.50) 0.17 (0.68)	(0.09) 0.30 (0.39)	(0.81) 0.33 (1.14)	0.00 0.78 (0.78)	(0.59) 0.23 (0.81)	(0.58) 0.16 (0.74)	(0.48) 0.05 (0.53)
Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	(0.31) 0.09 (0.40) 0.43	(0.15) 0.15 (0.30) 0.43	0.11 0.11 0.00 0.43	(0.12) 0.06 (0.18) 0.44	(0.19) 0.22 (0.41) 0.44	(0.50) 0.17 (0.68) 0.44	(0.09) 0.30 (0.39) 0.44	(0.81) 0.33 (1.14) 0.44	0.00 0.78 (0.78) 0.44	(0.59) 0.23 (0.81) 0.43	(0.58) 0.16 (0.74) 0.44	(0.48) 0.05 (0.53) 0.42
Uplift: Local Reliability Share Uplift: Statewide Share	(0.31) 0.09 (0.40)	(0.15) 0.15 (0.30)	0.11 0.11 0.00	(0.12) 0.06 (0.18)	(0.19) 0.22 (0.41)	(0.50) 0.17 (0.68)	(0.09) 0.30 (0.39)	(0.81) 0.33 (1.14)	0.00 0.78 (0.78)	(0.59) 0.23 (0.81)	(0.58) 0.16 (0.74)	(0.48) 0.05 (0.53)
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Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start Avg Monthly Cost	(0.31) 0.09 (0.40) <u>0.43</u> 40.61	(0.15) 0.15 (0.30) <u>0.43</u> 66.87	0.11 0.11 0.00 0.43 31.81	(0.12) 0.06 (0.18) 0.44 26.06	(0.19) 0.22 (0.41) 0.44 29.45	(0.50) 0.17 (0.68) 0.44 42.65	(0.09) 0.30 (0.39) <u>0.44</u> 48.79	(0.81) 0.33 (1.14) 0.44 57.73	0.00 0.78 (0.78) <u>0.44</u> 50.70	(0.59) 0.23 (0.81) 0.43 56.11	(0.58) 0.16 (0.74) <u>0.44</u> 57.43	(0.48) 0.05 (0.53) <u>0.42</u> 50.76
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#### <u>NYISO Average Cost/MWh (Energy and Ancillary Services)</u> \* <u>from the LBMP Customer point of view</u>



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

#### **NYISO Markets Transactions**

<u>2022</u>	January	February	March	April	May	June	July	August	September	October	November	<u>December</u>
Day Ahead Market MWh	14,327,101	12,477,485	12,137,757	10,992,578								
DAM LSE Internal LBMP Energy Sales	57%	56%	59%	56%								
DAM External TC LBMP Energy Sales	7%	8%	3%	5%								
DAM Bilateral - Internal Bilaterals	28%	28%	29%	31%								
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	4%	4%	4%	5%								
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%								
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%								
Balancing Energy Market MWh	942,823	742,449	758,386	772,666								
Balancing Energy LSE Internal LBMP Energy Sales	88%	83%	76%	60%								
Balancing Energy External TC LBMP Energy Sales	16%	19%	24%	33%								
Balancing Energy Bilateral - Internal Bilaterals	1%	2%	2%	0%								
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%								
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	4%	9%	8%	7%								
Balancing Energy Bilateral - Wheel Through Bilaterals	-9%	-13%	-10%	-1%								
Transactions Summary												
LBMP	67%	66%	65%	62%								
Internal Bilaterals	26%	27%	27%	29%								
Import Bilaterals	3%	4%	4%	4%								
Export Bilaterals	2%	2%	2%	2%								
Wheels Through	1%	1%	2%	2%								
Market Share of Total Load												
Day Ahead Market	93.8%	94.4%	94.1%	93.4%								
Balancing Energy +	6.2%	5.6%	5.9%	6.6%								
Total MWH	15,269,924	13,219,933	12,896,143	11,765,244								
Average Daily Energy Sendout/Month GWh	451	429	390	359								
										- ·		
<u>2021</u>	January	February	March	<u>April</u>	May	June	July	August	<u>September</u>	<u>October</u>	November	December

<u>2021</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Day Ahead Market MWh	14,108,848	13,325,329	12,843,278	11,204,262	11,854,214	14,120,662	15,843,724	16,032,238	12,759,550	11,852,213	11,496,431	13,068,538
DAM LSE Internal LBMP Energy Sales	60%	59%	56%	55%	56%	61%	65%	64%	61%	59%	60%	57%
DAM External TC LBMP Energy Sales	5%	4%	3%	2%	2%	3%	2%	4%	3%	4%	3%	6%
DAM Bilateral - Internal Bilaterals	31%	30%	32%	35%	35%	29%	27%	26%	29%	30%	32%	30%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	1%	4%	4%	5%	4%	4%	3%	3%	4%	4%	3%	3%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	2%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	2%	2%	3%	2%	2%	2%	2%	2%	2%	2%	1%	2%
Balancing Energy Market MWh	29,179	-308,157	-70,279	30,603	-36,350	247,874	-367,232	454,982	543,392	511,553	639,571	675,223
Balancing Energy LSE Internal LBMP Energy Sales	-215%	-151%	-367%	-456%	-398%	53%	-135%	82%	65%	63%	74%	87%
Balancing Energy External TC LBMP Energy Sales	374%	59%	365%	578%	440%	60%	41%	34%	40%	39%	26%	18%
Balancing Energy Bilateral - Internal Bilaterals	49%	4%	27%	34%	0%	-1%	3%	3%	1%	2%	2%	2%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	50%	5%	32%	34%	21%	5%	3%	2%	4%	5%	7%	8%
Balancing Energy Bilateral - Wheel Through Bilaterals	-158%	-17%	-158%	-90%	-163%	-17%	-11%	-21%	-9%	-10%	-8%	-15%
Transactions Summary												
LBMP	65%	62%	59%	57%	58%	65%	66%	69%	66%	64%	65%	65%
Internal Bilaterals	31%	31%	33%	35%	35%	29%	28%	25%	27%	28%	30%	28%
Import Bilaterals	1%	4%	4%	5%	4%	3%	3%	3%	4%	4%	3%	3%
Export Bilaterals	2%	2%	2%	2%	2%	2%	1%	1%	2%	2%	2%	2%
Wheels Through	2%	2%	2%	2%	2%	1%	1%	1%	2%	2%	0%	1%
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%	95.9%	94.7%	95.1%
Balancing Energy +	0.2%	-2.4%	-0.6%	0.3%	-0.3%	1.7%	-2.4%	2.8%	4.1%	4.1%	5.3%	4.9%
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	12,363,765	12,136,001	13,743,761
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458	483	504	420	373	387	408

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.

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

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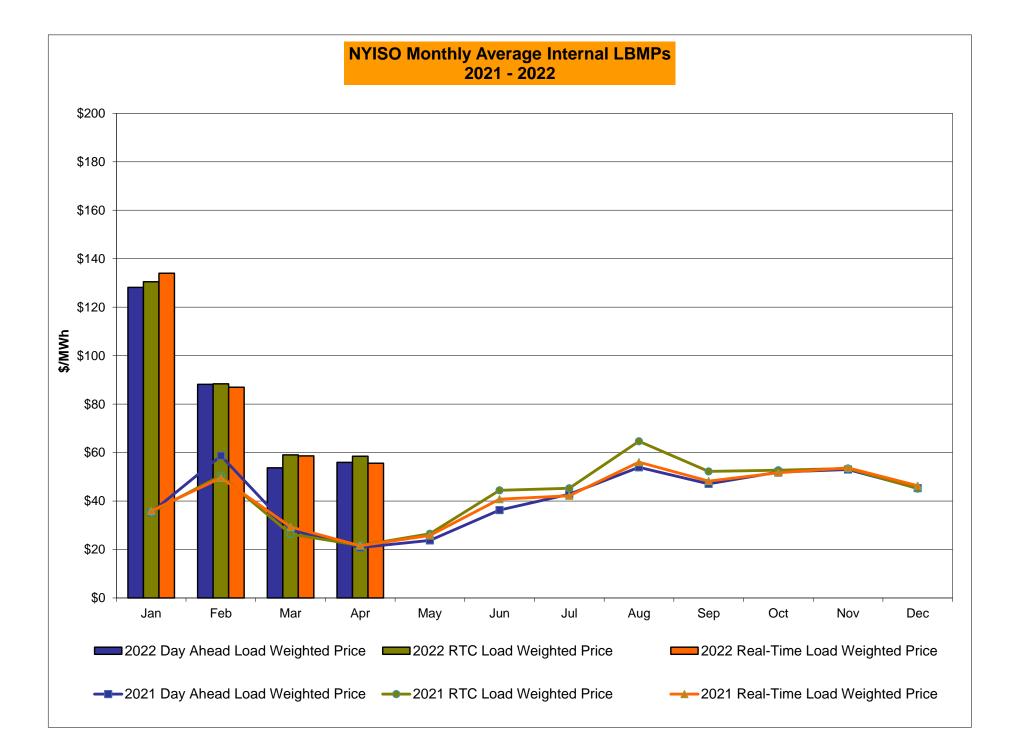
#### NYISO Markets 2022 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	June	July	August	September	October	November	<u>December</u>
DAY AHEAD LBMP												
Price *	\$124.39	\$85.98	\$52.41	\$55.23								
Standard Deviation	\$51.94	\$39.56	\$18.64	\$11.05								
Load Weighted Price **	\$128.16	\$88.17	\$53.69	\$55.96								
RTC LBMP												
Price *	\$127.16	\$85.48	\$57.58	\$57.33								
Standard Deviation	\$77.62	\$55.20	\$38.62	\$21.09								
Load Weighted Price **	\$130.45	\$88.33	\$59.03	\$58.49								
REAL TIME LBMP												
Price *	\$130.43	\$83.85	\$57.00	\$54.45								
Standard Deviation	\$93.35	\$57.99	\$44.52	\$20.46								
Load Weighted Price **	\$133.98	\$86.99	\$58.64	\$55.57								
Average Daily Energy Sendout/Month GWh	451	429	390	359								

#### NYISO Markets 2021 Energy Statistics

	<u>January</u>	February	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November I	<u>December</u>
DAY AHEAD LBMP Price * Standard Deviation Load Weighted Price **	\$34.37 \$14.58 \$35.31	\$57.30 \$24.48 \$58.67	\$27.47 \$8.23 \$28.12	\$20.46 \$4.58 \$20.81	\$22.95 \$6.28 \$23.75	\$33.36 \$15.88 \$36.28	\$40.38 \$15.56 \$42.84	\$50.30 \$22.37 \$53.93	\$45.48 \$12.42 \$47.08	\$50.66 \$11.04 \$51.92	\$51.90 \$11.83 \$52.98	\$44.24 \$13.72 \$45.33
<u>RTC LBMP</u> Price * Standard Deviation Load Weighted Price **	\$34.32 \$20.93 \$35.40	\$49.25 \$23.34 \$50.48	\$25.59 \$12.67 \$26.37	\$21.30 \$7.91 \$21.67	\$25.36 \$11.17 \$26.50	\$39.69 \$34.08 \$44.41	\$42.25 \$47.97 \$45.27	\$58.87 \$47.79 \$64.66	\$50.07 \$22.24 \$52.21	\$51.41 \$13.96 \$52.71	\$52.37 \$16.97 \$53.44	\$44.16 \$17.49 \$45.12
REAL TIME LBMP Price * Standard Deviation Load Weighted Price **	\$34.59 \$29.47 \$35.89	\$48.22 \$26.46 \$49.57	\$28.06 \$26.13 \$29.33	\$21.10 \$10.07 \$21.55	\$24.62 \$10.91 \$25.78	\$36.58 \$25.43 \$40.76	\$39.61 \$26.73 \$42.20	\$51.46 \$37.53 \$56.04	\$46.37 \$18.08 \$48.21	\$50.41 \$14.93 \$51.66	\$52.52 \$20.97 \$53.68	\$45.13 \$23.65 \$46.29
Average Daily Energy Sendout/Month GWh	427	434	381	354	365	458	483	504	420	373	387	408

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



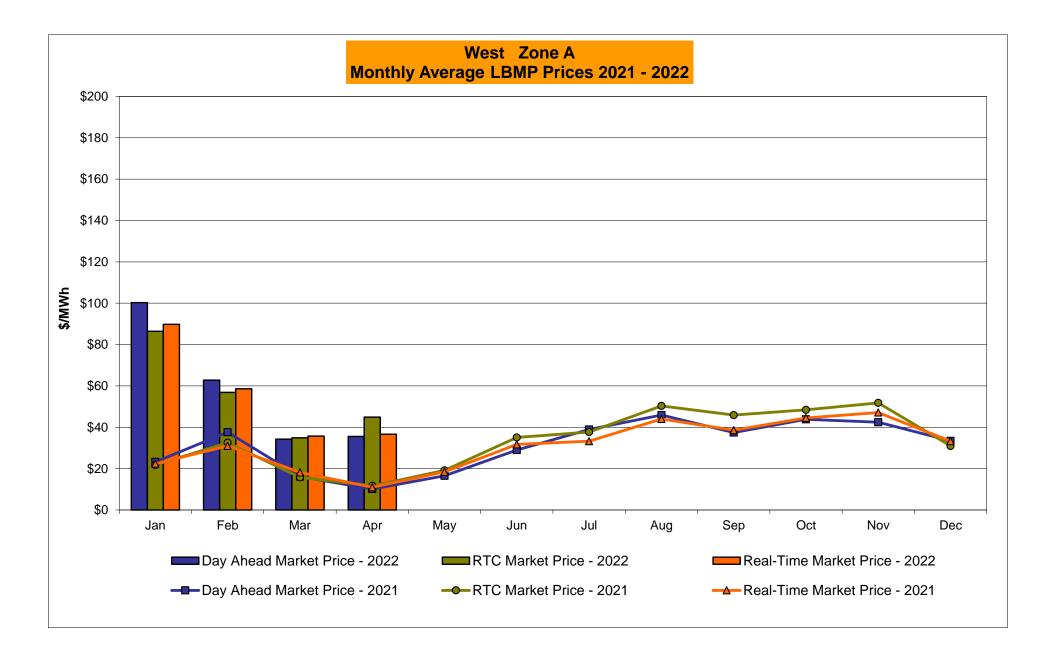
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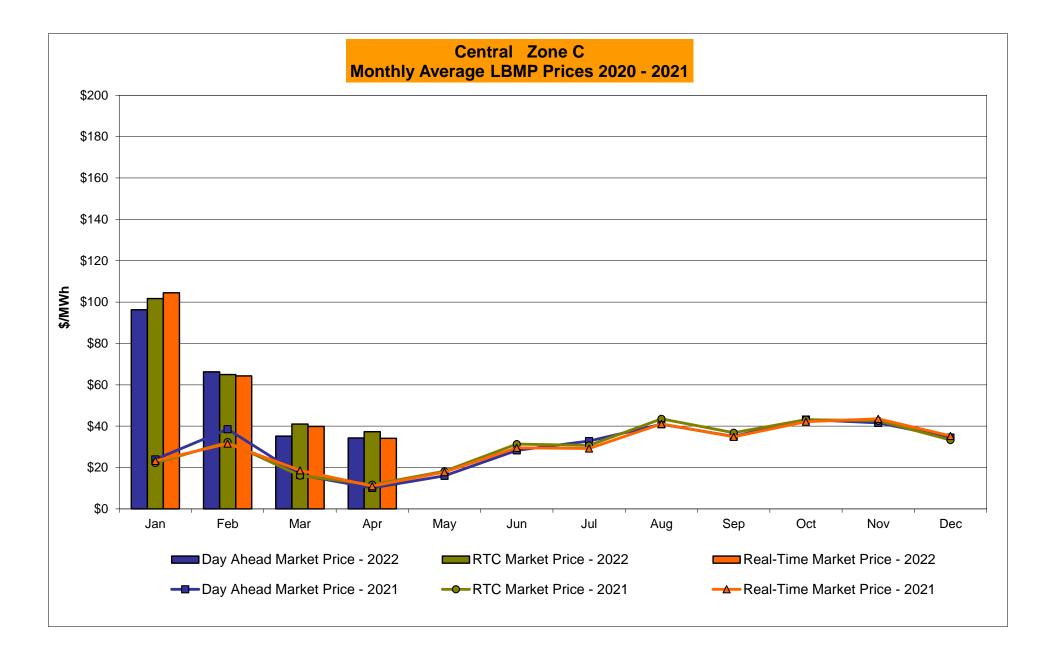
#### April 2022 Zonal LBMP Statistics for NYISO (\$/MWh)

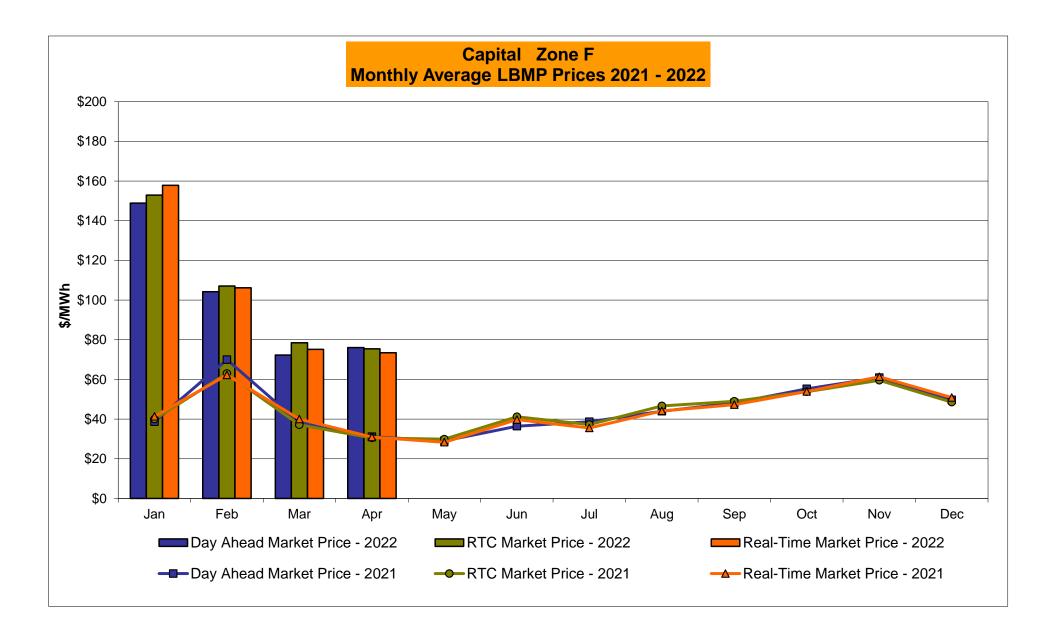
DAY AHEAD LBMP	WEST Zone A	GENESEE Zone B	NORTH Zone D	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE Zone I	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
Unweighted Price *	35.60	32.47	23.67	34.31	35.42	76.10	64.09	64.84	64.76	64.88	72.91
Standard Deviation	14.28	12.77	14.21	13.22	13.24	17.47	12.61	12.84	12.79	12.71	15.60
RTC LBMP											
Unweighted Price *	44.95	32.94	24.38	37.30	37.04	75.44	63.62	64.46	64.40	64.53	79.76
Standard Deviation	58.94	24.02	26.06	27.44	27.29	24.11	17.07	17.38	17.33	17.29	63.21
REAL TIME LBMP											
Unweighted Price *	36.61	31.63	24.08	34.16	34.53	73.45	62.85	63.72	63.66	63.81	73.52
Standard Deviation	32.62	24.78	27.07	25.19	24.77	26.51	19.85	20.26	20.24	20.31	48.22

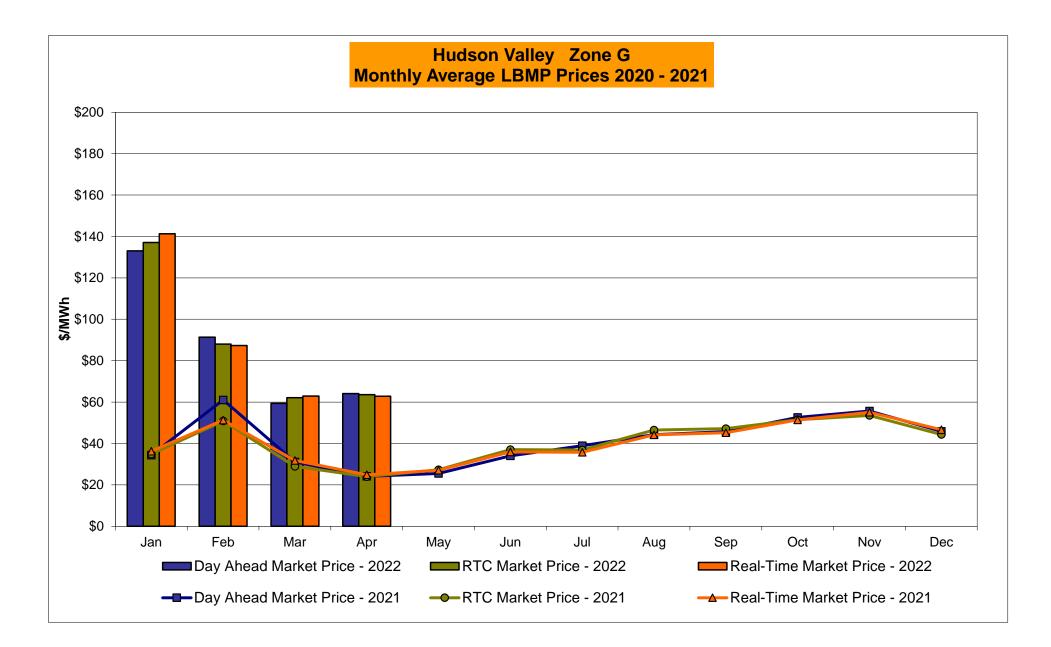
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE <u>Controllable</u>	NORTHPORT- NORWALK <u>Controllable</u>	NEPTUNE <u>Controllable</u>	LINDEN VFT Controllable	HUDSON <u>Controllable</u>	Dennison <u>Controllable</u>
	Zone O	Zone M	Zone M	Zone P	Zone N	Line	Line	<u>Line</u>	Line	Line	Line
DAY AHEAD LBMP											
Unweighted Price *	32.77	24.60	24.60	50.10	66.95	72.50	69.55	72.76	63.28	64.82	23.42
Standard Deviation	12.37	14.80	14.80	10.64	13.04	15.58	14.19	15.57	12.24	12.77	13.91
RTC LBMP Unweighted Price * Standard Deviation	30.77 21.25	25.17 25.71	25.17 25.71	52.52 22.23	64.23 17.42	78.67 63.72	79.29 62.57	79.47 62.55	62.20 17.94	62.18 17.75	23.91 26.31
REAL TIME LBMP Unweighted Price * Standard Deviation	31.13 23.15	24.73 27.12	24.73 27.12	50.08 22.40	62.08 28.39	72.56 49.65	68.87 51.68	73.44 47.82	61.10 27.33	63.73 20.16	23.46 28.35

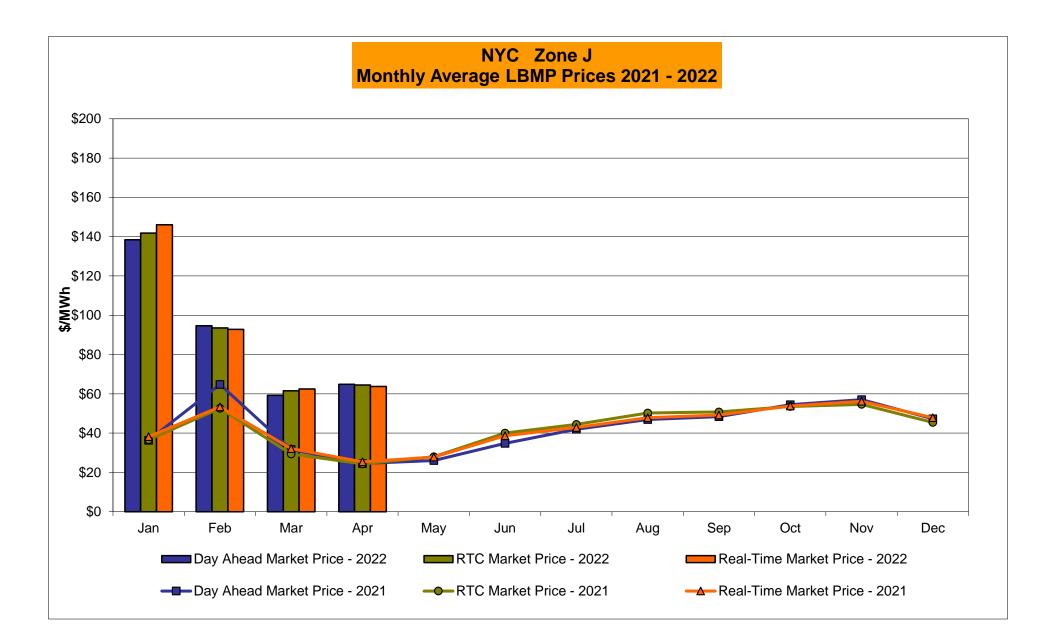
\* Straight LBMP averages

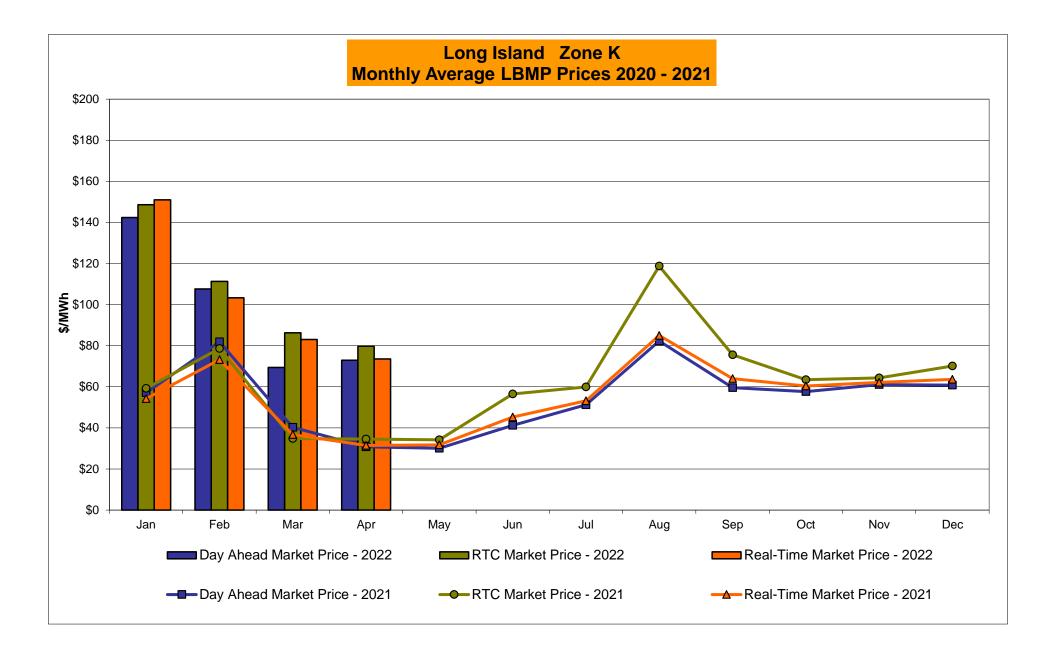


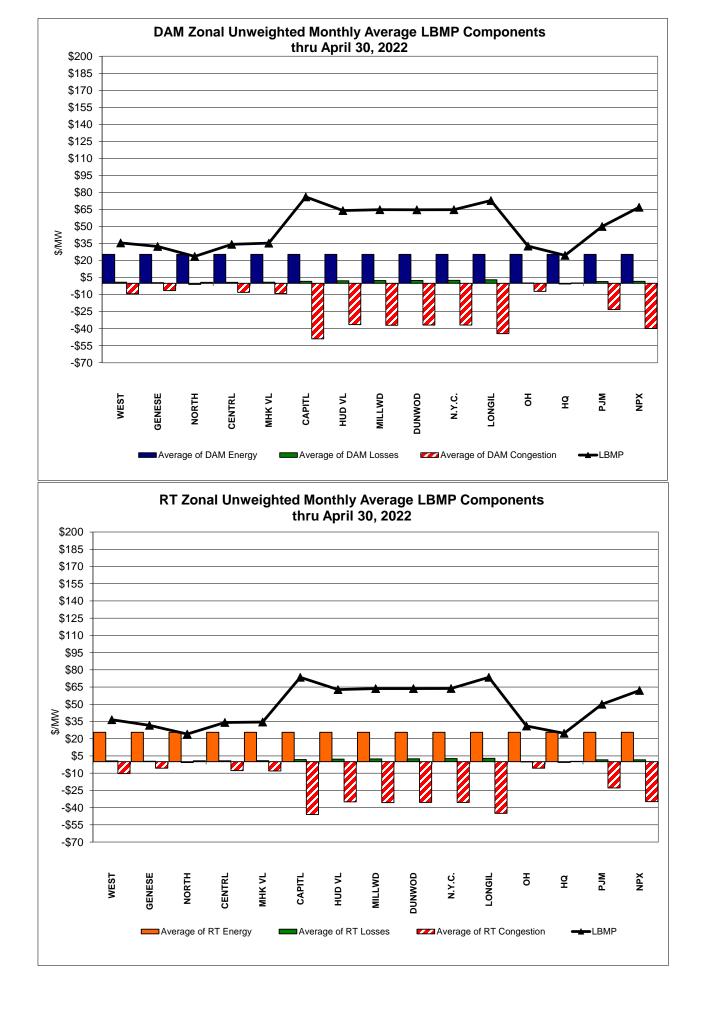






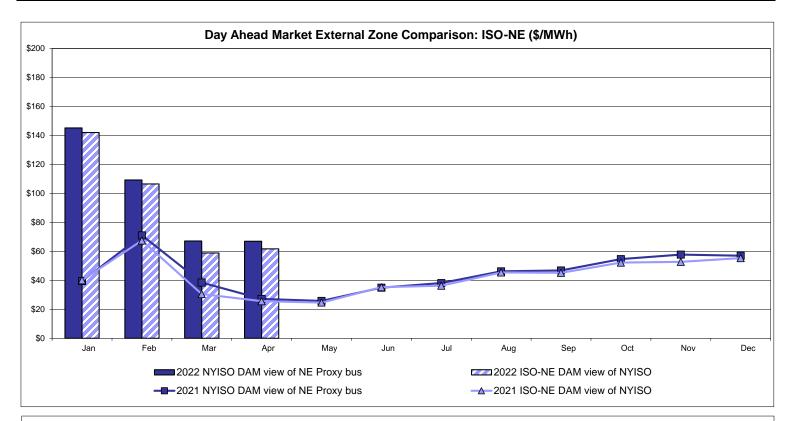


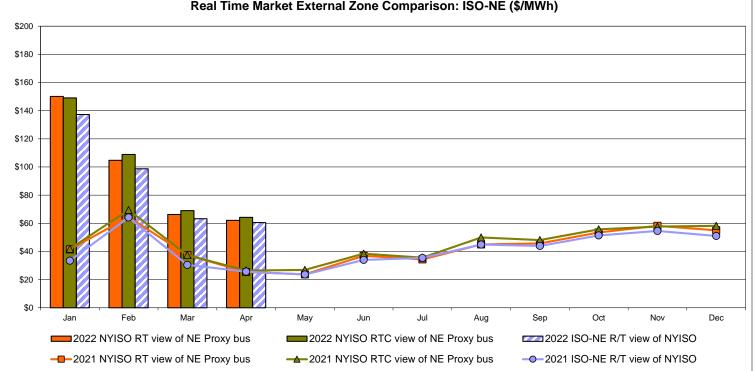




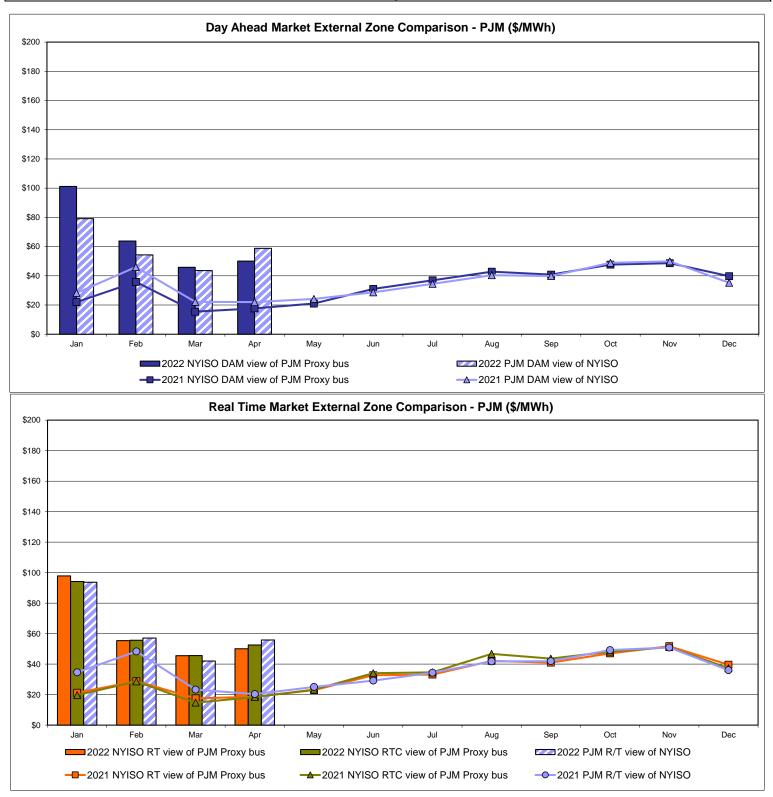
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# **External Comparison ISO-New England**



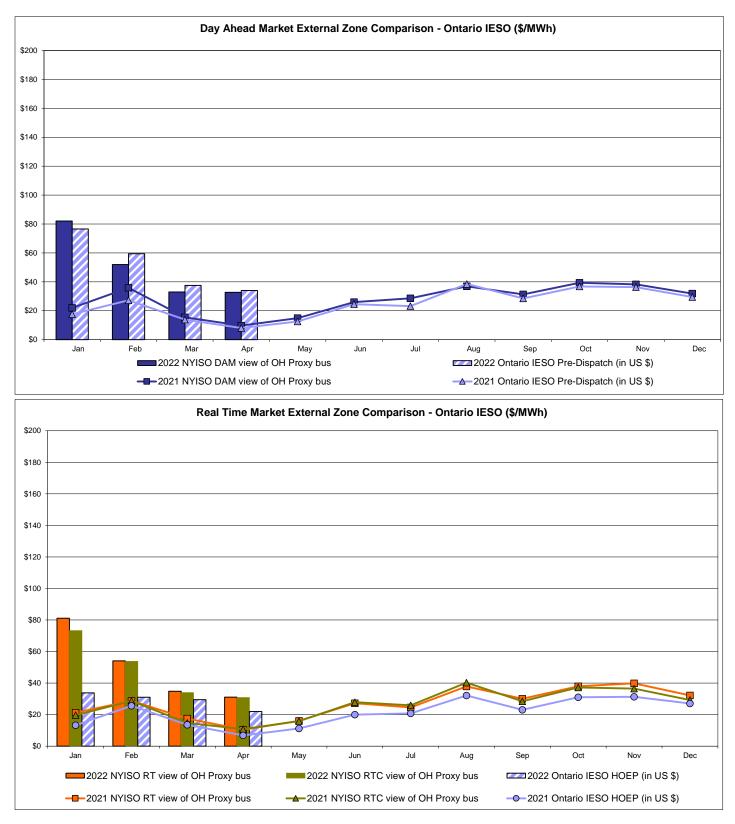


Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

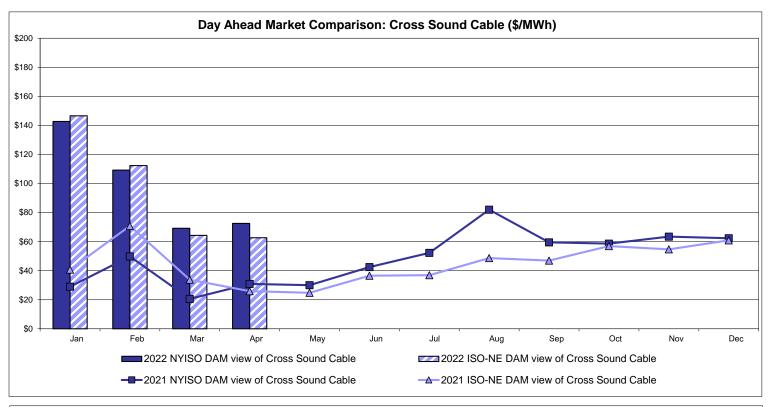


# **External Comparison PJM**

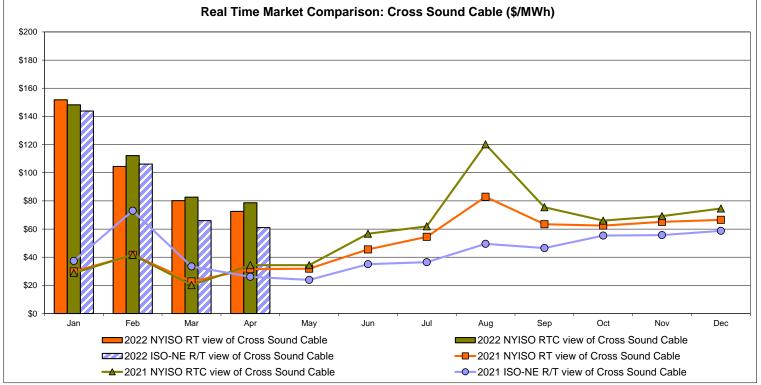
#### **External Comparison Ontario IESO**



Notes: Exchange factor used for April 2022 was 0.791891035793475 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



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

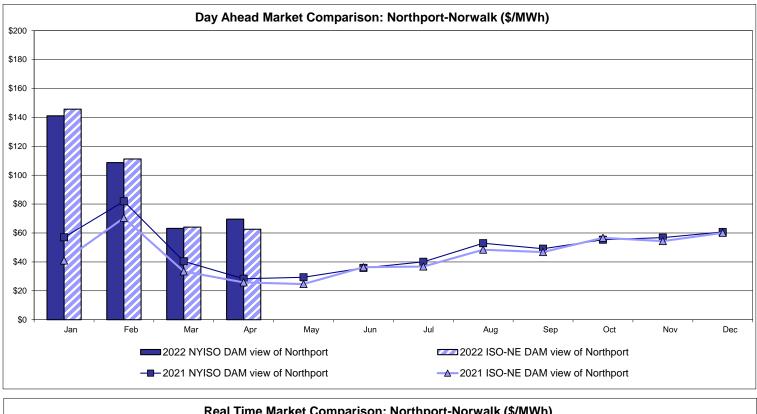


Note:

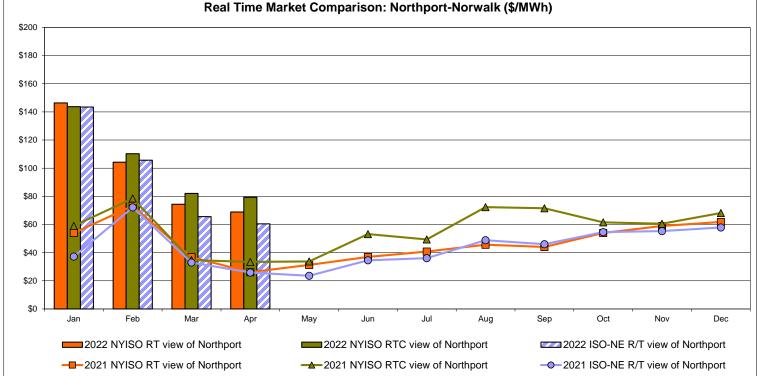
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)**

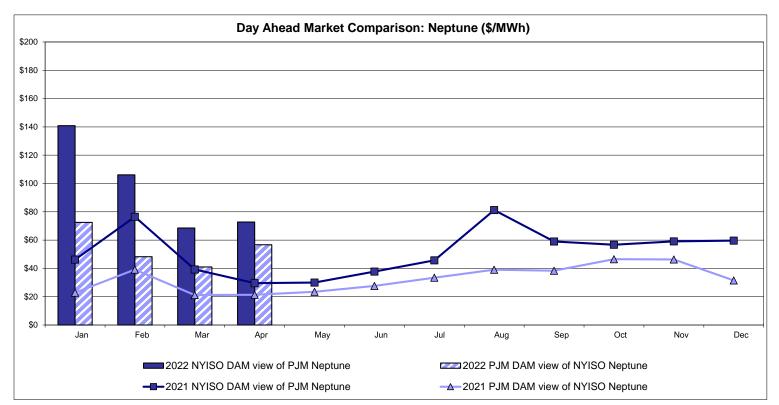


Note:

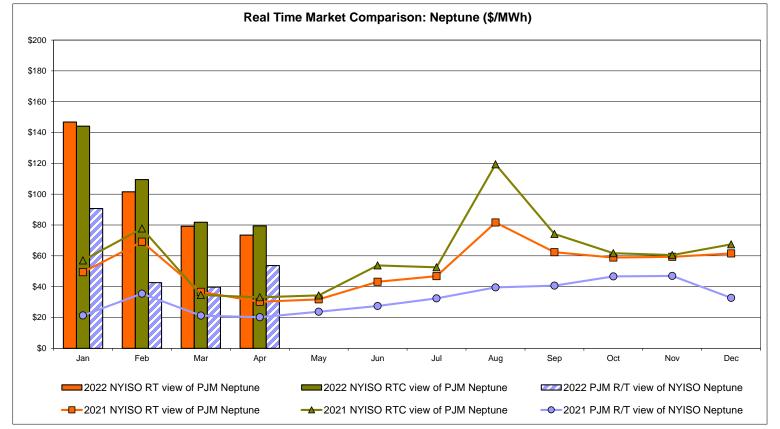
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

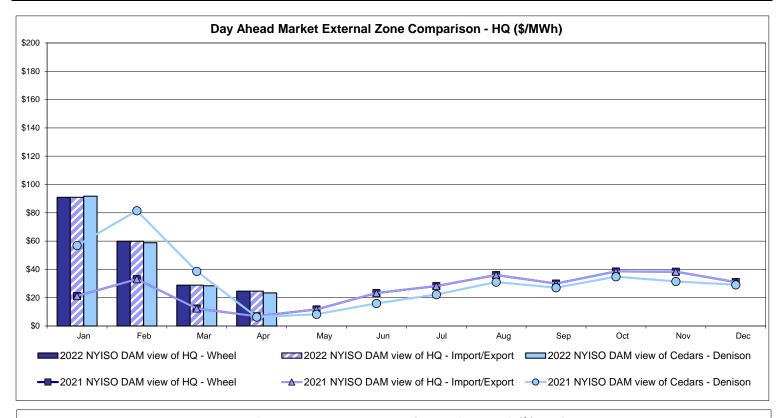
The DAM and R/T prices at the 1385 interface are used for NYISO.

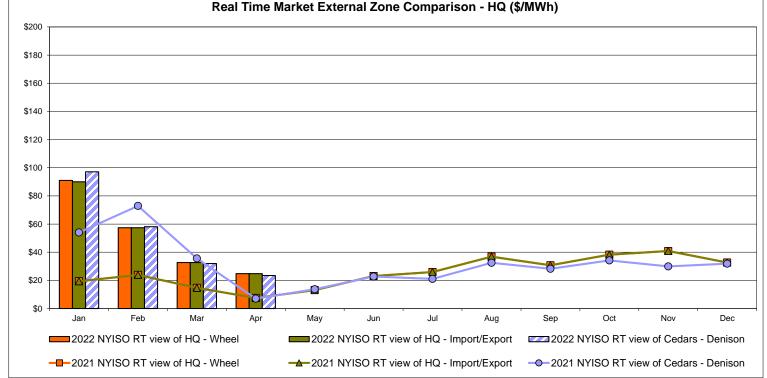


# **External Controllable Line: Neptune (PJM)**



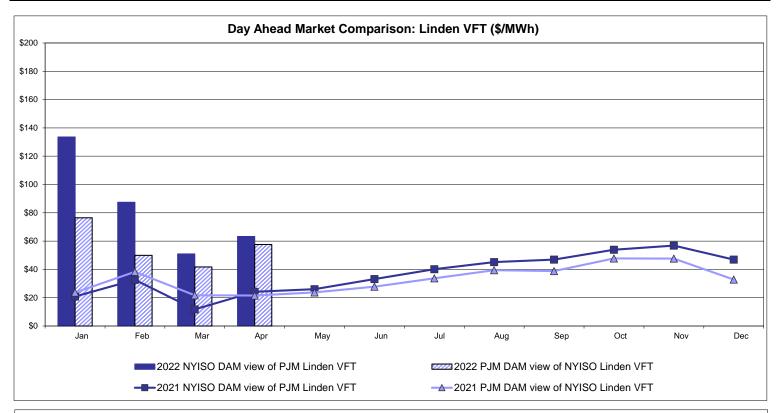
# **External Comparison Hydro-Quebec**



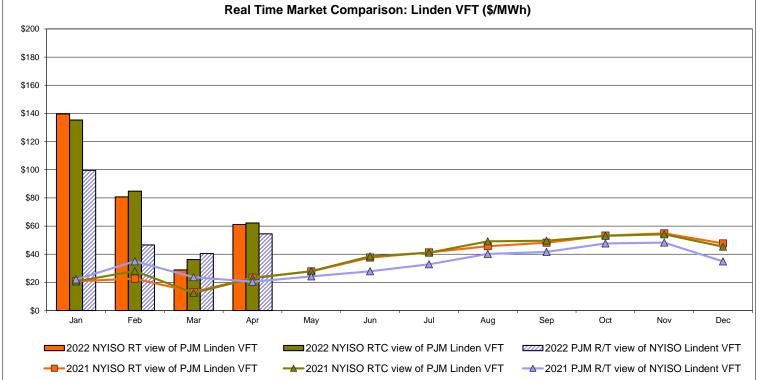


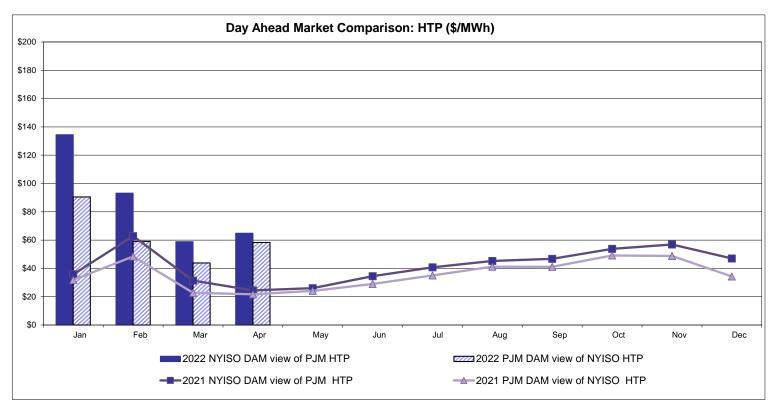
Note:

Hydro-Quebec Prices are unavailable.

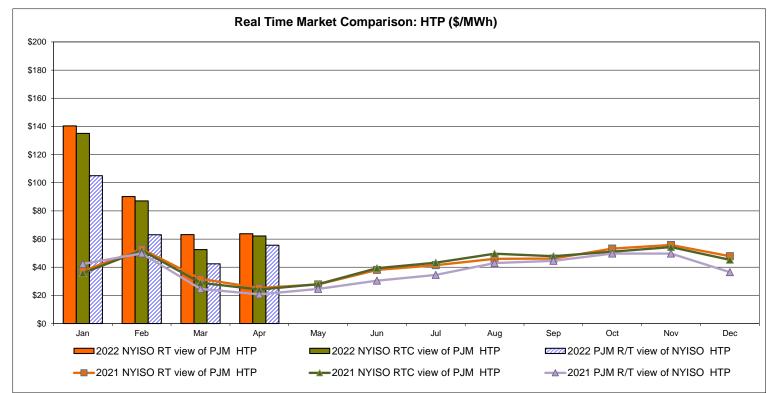


# External Controllable Line: Linden VFT (PJM)





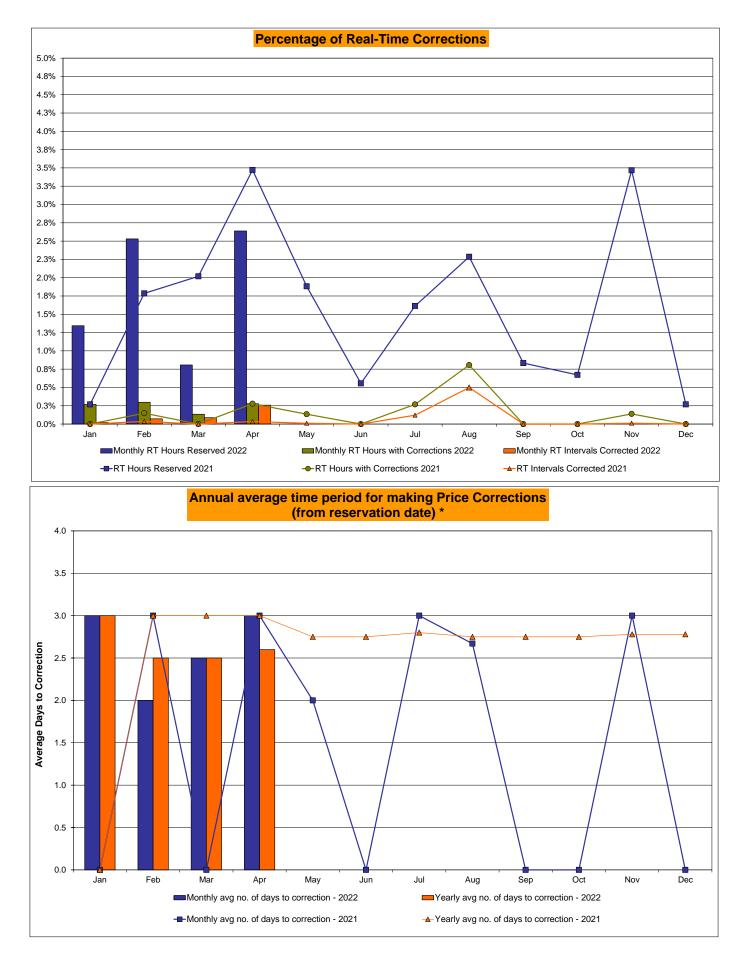
# **External Controllable Line: Hudson (PJM)**



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

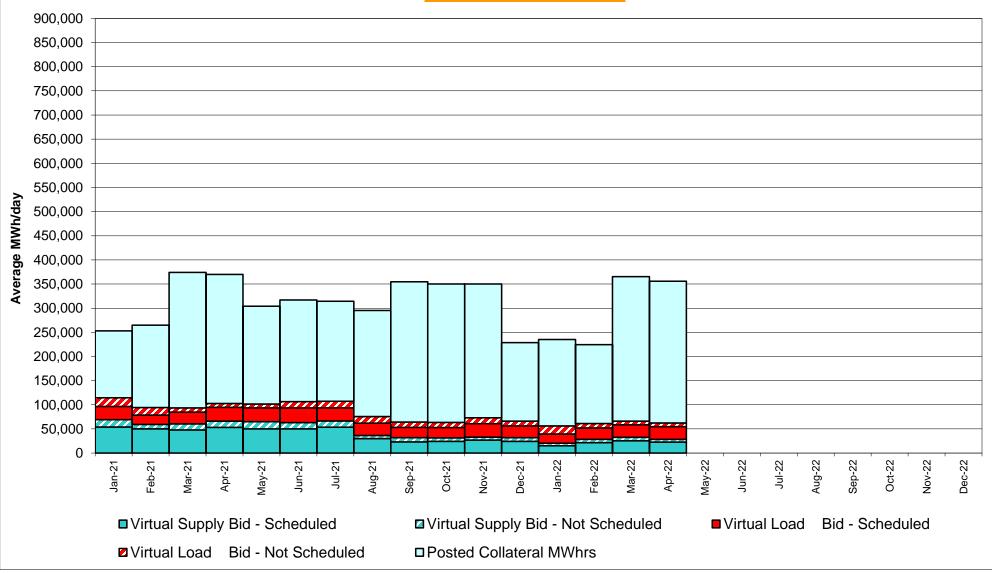
2022		January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	July	August	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections	in the mean th	0	0	1	2								
Number of hours with corrections Number of hours	in the month in the month	2 744	2 672	743	2 720								
% of hours with corrections	in the month	0.27%	0.30%	0.13%	0.28%								
% of hours with corrections	year-to-date	0.27%	0.28%	0.23%	0.24%								
Interval Corrections	year-io-uale	0.27 /6	0.20%	0.2376	0.2476								
Number of intervals corrected	in the month	2	6	8	23								
Number of intervals	in the month	9,258	8,338	9,118	8,908								
% of intervals corrected	in the month	0.02%	0.07%	0.09%	0.26%								
% of intervals corrected	year-to-date	0.02%	0.05%	0.06%	0.11%								
Hours Reserved													
Number of hours reserved	in the month	10	17	6	19								
Number of hours	in the month	744	672	743	720								
% of hours reserved	in the month	1.34%	2.53%	0.81%	2.64%								
% of hours reserved	vear-to-date	1.34%	1.91%	1.53%	1.81%								
Days to Correction *	*												
Avg. number of days to correction	in the month	3.00	2.00	2.50	3.00								
Avg. number of days to correction	year-to-date	3.00	2.50	2.50	2.60								
Days Without Corrections													
Days without corrections	in the month	30	27	29	29								
Days without corrections	year-to-date	30	57	86	115								
<u>2021</u>		<u>January</u>	<b>February</b>	March	April	May	June	July	August	September	October	November	December
2021 Hour Corrections		<u>January</u>	<u>February</u>	March		<u>May</u>	<u>June</u>		<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	December
	in the month	0	1	0	2	1	0	2	6	0	0	1	0
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	1 672	0 743	2 720	1 744	0 720	2 744	6 744	0 720	0 744	1 721	0 744
Hour Corrections Number of hours with corrections		0	1	0	2	1	0	2	6	0	0	1	0
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	1 672	0 743	2 720	1 744	0 720	2 744	6 744	0 720	0 744	1 721	0 744
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	0 744 0.00% 0.00%	1 672 0.15% 0.07%	0 743 0.00% 0.05%	2 720 0.28% 0.10%	1 744 0.13%	0 720 0.00% 0.09%	2 744 0.27%	6 744 0.81% 0.21%	0 720 0.00% 0.18%	0 744 0.00% 0.16%	1 721 0.14%	0 744 0.00% 0.15%
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	0 744 0.00% 0.00%	1 672 0.15% 0.07% 3	0 743 0.00% 0.05% 0	2 720 0.28% 0.10%	1 744 0.13% <u>0.11%</u> 1	0 720 0.00% 0.09%	2 744 0.27% 0.12% 11	6 744 0.81% 0.21% 45	0 720 0.00% 0.18% 0	0 744 0.00% 0.16%	1 721 0.14% 0.16%	0 744 0.00% 0.15% 0
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	0 744 0.00% 0.00% 0 9,095	1 672 0.15% 0.07% 3 8,236	0 743 0.00% 0.05% 0 9,100	2 720 0.28% 0.10% 3 8,827	1 744 0.13% <u>0.11%</u> 1 9,157	0 720 0.00% 0.09% 0 8,813	2 744 0.27% 0.12% 11 9,084	6 744 0.81% 0.21% 45 9,024	0 720 0.00% 0.18% 0 8,783	0 744 0.00% 0.16% 0 9,133	1 721 0.14% 0.16% 1 8,802	0 744 0.00% 0.15% 0 9,063
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	0 744 0.00% 0.00%	1 672 0.15% 0.07% 3	0 743 0.00% 0.05% 0	2 720 0.28% 0.10%	1 744 0.13% <u>0.11%</u> 1	0 720 0.00% 0.09%	2 744 0.27% 0.12% 11	6 744 0.81% 0.21% 45	0 720 0.00% 0.18% 0	0 744 0.00% 0.16%	1 721 0.14% 0.16%	0 744 0.00% 0.15% 0
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	0 744 0.00% 0.00% 0 9,095	1 672 0.15% 0.07% 3 8,236	0 743 0.00% 0.05% 0 9,100	2 720 0.28% 0.10% 3 8,827	1 744 0.13% <u>0.11%</u> 1 9,157	0 720 0.00% 0.09% 0 8,813	2 744 0.27% 0.12% 11 9,084	6 744 0.81% 0.21% 45 9,024	0 720 0.00% 0.18% 0 8,783	0 744 0.00% 0.16% 0 9,133	1 721 0.14% 0.16% 1 8,802	0 744 0.00% 0.15% 0 9,063
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,095 0.00% 0.00%	1 672 0.15% 0.07% 3 8,236 0.04% 0.02%	0 743 0.00% 0.05% 0 9,100 0.00% 0.01%	2 720 0.28% 0.10% 3 8,827 0.03%	1 744 0.13% 0.11% 1 9,157 0.01%	0 720 0.00% 0.09% 0 8,813 0.00%	2 744 0.27% 0.12% 11 9,084 0.12% 0.03%	6 744 0.81% 0.21% 45 9,024 0.50%	0 720 0.00% 0.18% 0 8,783 0.00%	0 744 0.00% 0.16% 0 9,133 0.00%	1 721 0.14% 0.16% 1 8,802 0.01% 0.07%	0 744 0.00% 0.15% 0 9,063 0.00% 0.06%
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 in the month	0 744 0.00% 0.00% 9,095 0.00% 0.00% 2	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25	1 744 0.13% 0.11% 1 9,157 0.01% 0.02% 14	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12	6 744 0.81% 0.21% 45 9,024 0.50% 0.09% 17	0 720 0.00% 0.18% 0 8,783 0.00% 0.08% 6	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5	1 721 0.14% 0.16% 1 8,802 0.01% 0.07% 25	0 744 0.00% 0.15% 0 9,063 0.00% 0.06% 2
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	0 744 0.00% 0.00% 0 9,095 0.00% 0.00% 2 744	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12 672	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15 743	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25 720	1 744 0.13% 0.11% 1 9,157 0.01% 0.02%	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4 720	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12 744	6 744 0.81% 0.21% 45 9,024 0.50% 0.09%	0 720 0.00% 0.18% 0 8,783 0.00% 0.08%	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5 744	1 721 0.14% 0.16% 1 8,802 0.01% 0.07%	0 744 0.00% 0.15% 0 9,063 0.00% 0.06%
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         Mumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,095 0.00% 0.00% 2	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25	1 744 0.13% 0.11% 1 9,157 0.01% 0.02% 14	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12	6 744 0.81% 0.21% 45 9,024 0.50% 0.09% 17	0 720 0.00% 0.18% 0 8,783 0.00% 0.08% 6	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5	1 721 0.14% 0.16% 1 8,802 0.01% 0.07% 25	0 744 0.00% 0.15% 0 9,063 0.00% 0.06% 2
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 year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,095 0.00% 0.00% 2 744	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12 672	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15 743	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25 720	1 744 0.13% 0.11% 1 9,157 0.01% 0.02% 14 744	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4 720	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12 744	6 744 0.81% 0.21% 45 9,024 0.50% 0.09% 17 744	0 720 0.00% 0.18% 0 8,783 0.00% 0.08% 6 720	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5 744	1 721 0.14% 0.16% 1 8,802 0.01% 0.07% 25 721	0 744 0.00% 0.15% 0 9,063 0.00% 0.06% 2 744
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         Mumber of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 9,095 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12 672 1.79%	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15 743 2.02%	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25 720 3.47%	1 744 0.13% 0.11% 1 9,157 0.01% 0.02% 14 744 1.88%	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4 720 0.56%	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12 744 1.61%	6 744 0.81% 0.21% 45 9,024 0.50% 0.09% 17 744 2.28%	0 720 0.00% 0.18% 0 8,783 0.00% 0.08% 6 720 0.83%	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5 744 0.67%	1 721 0.14% 0.16% 1 8,802 0.01% 0.07% 25 721 3.47%	0 744 0.00% 0.15% 0 9,063 0.00% 0.06% 2 744 0.27%
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 year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 0 9,095 0.00% 0.00% 2 744 0.27% 0.27% 0.00	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12 672 1.79% 0.99% 3.00	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15 743 2.02% 1.34% 0.00	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25 720 3.47% 1.88% 3.00	1 744 0.13% 0.11% 1 9,157 0.01% 0.02% 14 744 1.88% 1.88% 2.00	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4 720 0.56% 1.66% 0.00	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12 744 1.61% 1.65% 3.00	6 744 0.81% 0.21% 45 9,024 0.50% 0.09% 17 744 2.28% 1.73% 2.67	0 720 0.00% 0.18% 0 8,783 0.00% 0.08% 6 720 0.83% 1.63% 0.00	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5 744 0.67% 1.54% 0.00	1 721 0.14% 0.16% 1 8,802 0.01% 0.07% 25 721 3.47% 1.71% 3.00	0 744 0.00% 0.15% 0 9,063 0.00% 0.06% 2 744 0.27% 1.59% 0.00
Hour Corrections           Number of hours with corrections           Number of hours with corrections           % of hours with corrections           Mumber of nours with corrections           Interval Corrections           Number of intervals corrected           Number of intervals corrected           % of intervals corrected           % of intervals corrected           Mumber of hours reserved           Number of hours reserved           % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 0 9,095 0.00% 0.00% 2 744 0.27% 0.27%	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12 672 1.79% 0.99%	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15 743 2.02% 1.34%	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25 720 3.47% 1.88%	1 744 0.13% 0.11% 1 9,157 0.01% 0.02% 14 744 1.88% 1.88%	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4 720 0.56% 1.66%	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12 744 1.61% 1.65%	6 744 0.81% 0.21% 45 9,024 0.50% 0.09% 17 744 2.28% 1.73%	0 720 0.00% 0.18% 0 8,783 0.00% 0.08% 6 720 0.83% 1.63%	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5 744 0.67% 1.54%	1 721 0.14% 0.16% 1 8,802 0.01% 0.07% 25 721 3.47% 1.71%	0 744 0.00% 0.15% 0 9,063 0.00% 0.06% 2 744 0.27% 1.59%
Hour Corrections           Number of hours with corrections           Number of hours           % of hours with corrections           % of hours with corrections           Mumber of intervals corrected           Number of intervals corrected           % of intervals corrected           % of intervals corrected           % of intervals corrected           Mumber of hours reserved           Number of hours reserved           % of hours reserved           Mumber of days to correction *           Avg. number of days to correction           Avg. 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 in the month in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 9,095 0.00% 0.00% 2 744 0.27% 0.27% 0.00 0.00	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12 672 1.79% 0.99% 3.00 3.00	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15 743 2.02% 1.34% 0.00 3.00	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25 720 3.47% 1.88% 3.00 3.00	1 744 0.13% 0.11% 1 9,157 0.01% 0.02% 14 744 1.88% 1.88% 2.00 2.75	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4 720 0.56% 1.66% 0.00 2.75	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12 744 1.61% 1.65% 3.00 2.80	6 744 0.81% 0.21% 45 9,024 0.50% 0.09% 17 744 2.28% 1.73% 2.67 2.75	0 720 0.00% 0.18% 0 8,783 0.00% 0.08% 6 720 0.83% 1.63% 0.00 2.75	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5 744 0.67% 1.54% 0.00 2.75	1 721 0.14% 0.16% 1 8,802 0.01% 0.07% 25 721 3.47% 1.71% 3.00 2.78	0 744 0.00% 0.15% 0 9,063 0.00% 0.06% 2 744 0.27% 1.59% 0.00 2.78
Hour Corrections           Number of hours with corrections           Number of hours with corrections           % of hours with corrections           Mumber of nours with corrections           Interval Corrections           Number of intervals corrected           Number of intervals corrected           % of intervals corrected           % of intervals corrected           Mumber of hours reserved           Number of hours reserved           % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,095 0.00% 0.00% 2 744 0.27% 0.27% 0.00	1 672 0.15% 0.07% 3 8,236 0.04% 0.02% 12 672 1.79% 0.99% 3.00	0 743 0.00% 0.05% 0 9,100 0.00% 0.01% 15 743 2.02% 1.34% 0.00	2 720 0.28% 0.10% 3 8,827 0.03% 0.02% 25 720 3.47% 1.88% 3.00	1 744 0.13% 0.11% 1 9,157 0.01% 0.02% 14 744 1.88% 1.88% 2.00	0 720 0.00% 0.09% 0 8,813 0.00% 0.01% 4 720 0.56% 1.66% 0.00	2 744 0.27% 0.12% 11 9,084 0.12% 0.03% 12 744 1.61% 1.65% 3.00	6 744 0.81% 0.21% 45 9,024 0.50% 0.09% 17 744 2.28% 1.73% 2.67	0 720 0.00% 0.18% 0 8,783 0.00% 0.08% 6 720 0.83% 1.63% 0.00	0 744 0.00% 0.16% 0 9,133 0.00% 0.07% 5 744 0.67% 1.54% 0.00	1 721 0.14% 0.16% 1 8,802 0.01% 0.07% 25 721 3.47% 1.71% 3.00	0 744 0.00% 0.15% 0 9,063 0.00% 0.06% 2 744 0.27% 1.59% 0.00

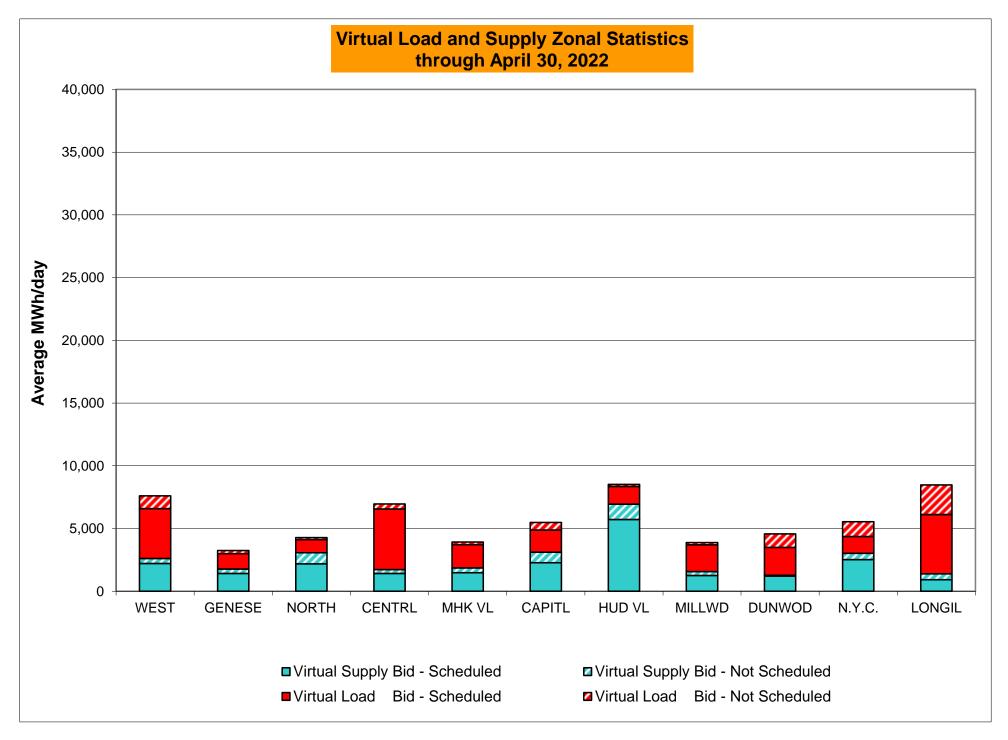
\*Calendar days from reservation date; for June 2018 forward, business days from market date



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

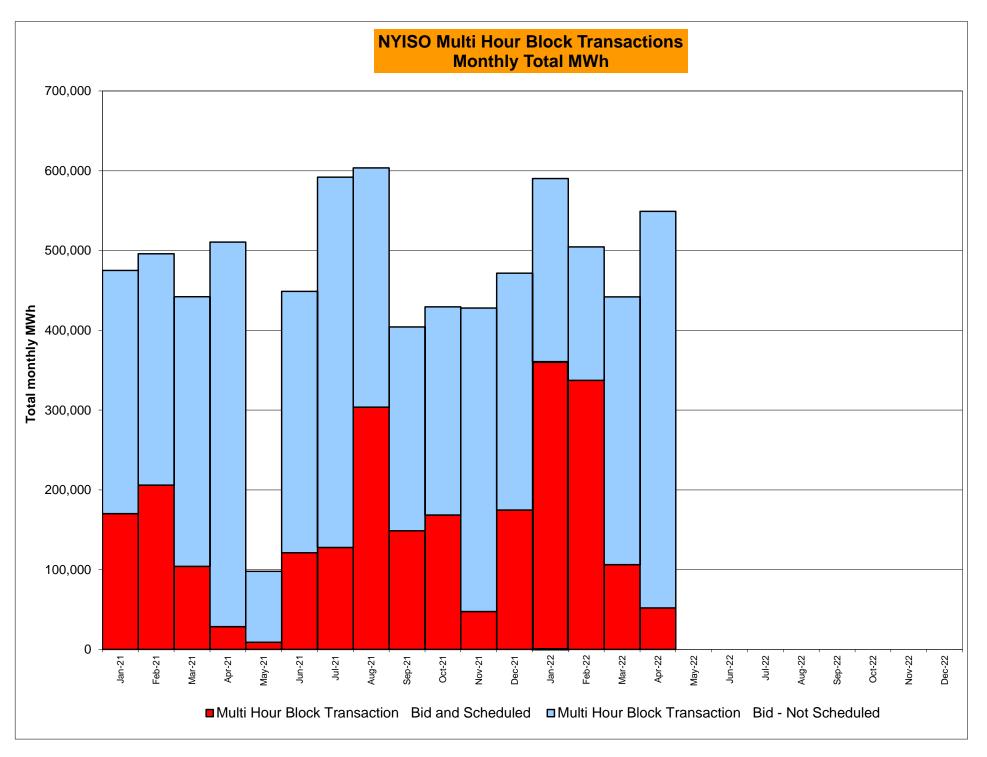
### NYISO Virtual Trading Average MWh per day



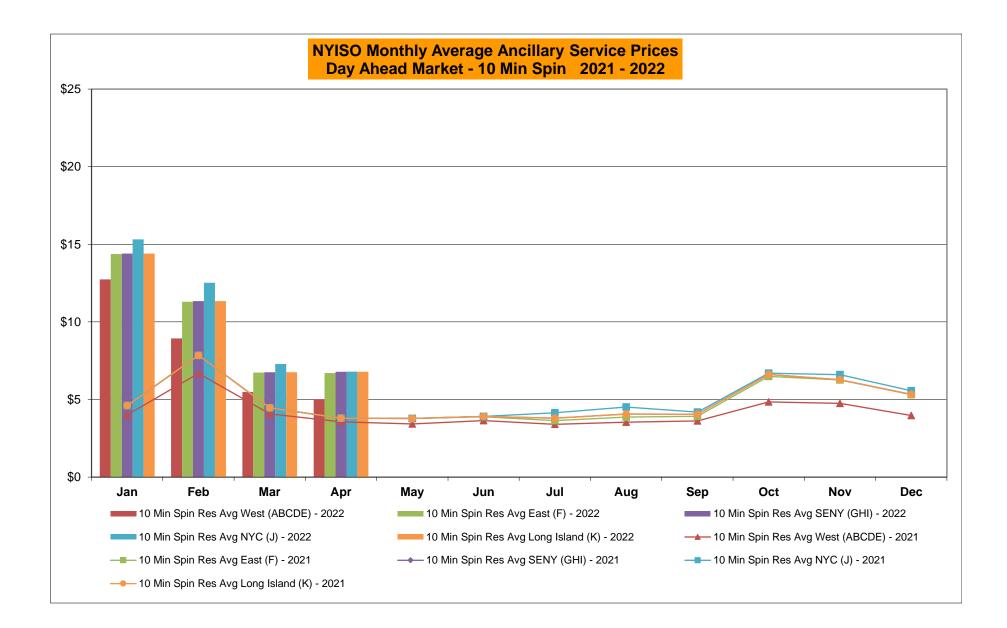


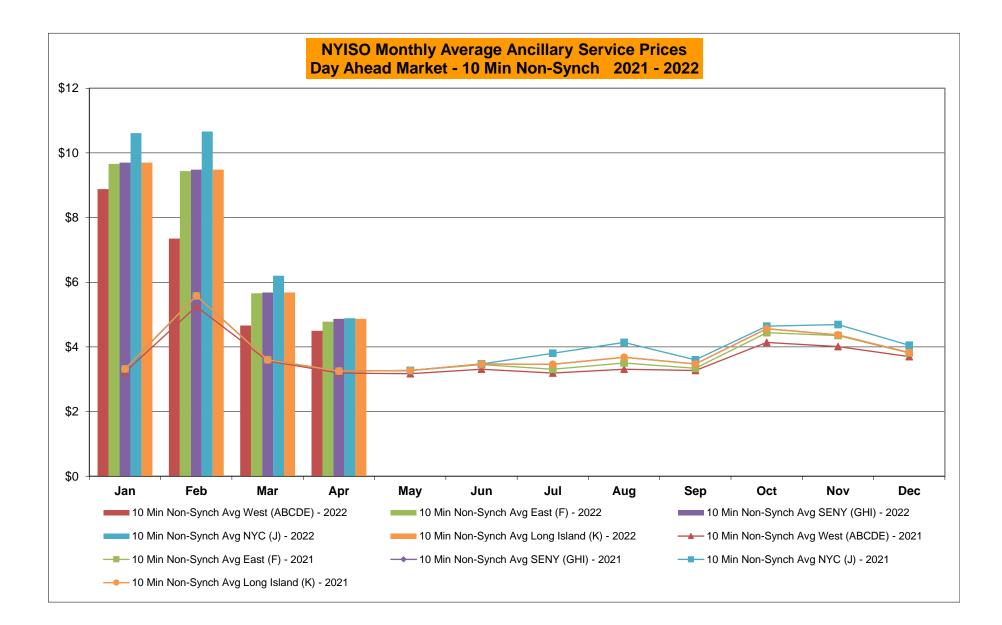
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2022

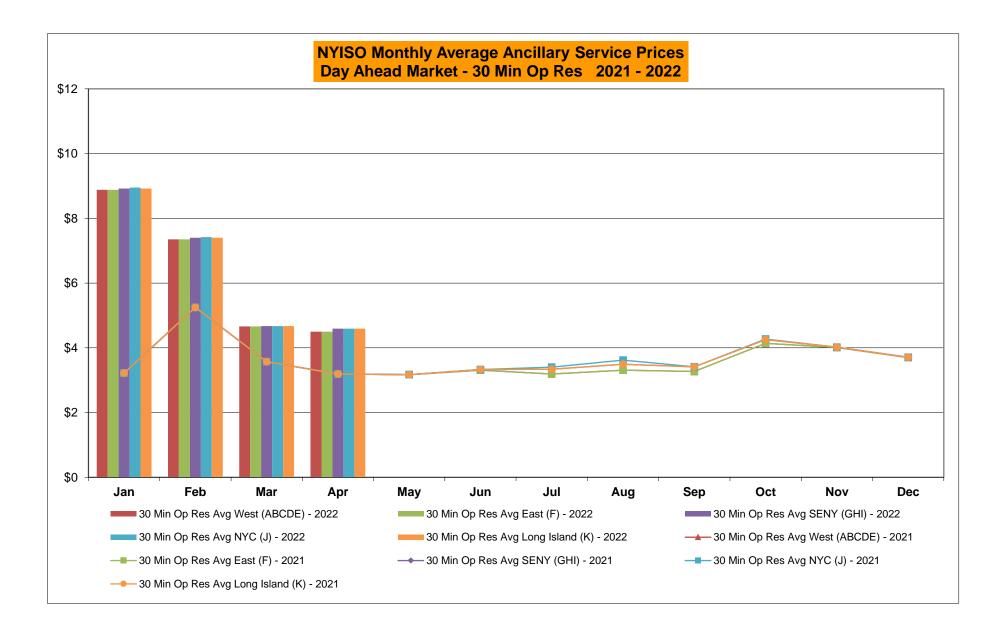
		Virtual L		Virtual S	upply Bid		-	Virtual L	oad Bid	Virtual Su				Virtual I	oad Bid	Virtual Supp	
-			Not		Not	_			Not		Not	_	<b>.</b> .		Not		Not
Zone	Date		Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled		Scheduled	Zone	Date	Scheduled	Scheduled		cheduled
WEST	Jan-22 Feb-22	2,754 2,773	1,900 1,170	2,076 3,027	1,276 908	MHK VL	Jan-22 Feb-22	722	621 386	1,245 1,518	204 349	DUNWOD	Jan-22 Feb-22	1,376 1,696		652 1,218	54 86
	Mar-22	3,702	830	2,480		-	Mar-22	2,263	131	1,516	349		Mar-22	1,696	954	1,944	68
	Apr-22	3,967	1,016		402	_	Apr-22	1,848		1,300	379		Apr-22	2,229	1,069	1,219	46
	May-22	5,507	1,010	2,214	402	_	May-22	1,040	200	1,400	0/0		May-22	2,225	1,005	1,215	
	Jun-22					_	Jun-22						Jun-22				
	Jul-22						Jul-22						Jul-22				
	Aug-22						Aug-22						Aug-22				
	Sep-22						Sep-22						Sep-22				
	Oct-22						Oct-22						Oct-22				
	Nov-22						Nov-22						Nov-22				
	Dec-22						Dec-22						Dec-22				
GENESE	Jan-22	722	464	1,058	319	CAPITL	Jan-22	2,536	2,157	749	695	N.Y.C.	Jan-22	2,341	3,279	1,155	349
SENEOL	Feb-22	853	293	1,000			Feb-22	3,700	1,211	1,075	785		Feb-22	2,889	1,668	1,938	607
	Mar-22	1,615	190	1,176		_	Mar-22	2,660	1,045	1,450	879		Mar-22	1,769		2,728	629
	Apr-22	1,226	244	1,415	354	_	Apr-22	1,761	610	2,274	843		Apr-22	1,341	1,172	2,530	492
	May-22						May-22						May-22				
	Jun-22						Jun-22						Jun-22				
	Jul-22						Jul-22						Jul-22				
	Aug-22						Aug-22						Aug-22				
	Sep-22						Sep-22						Sep-22				
	Oct-22						Oct-22						Oct-22				
	Nov-22					_	Nov-22						Nov-22				
	Dec-22						Dec-22						Dec-22				
NORTH	Jan-22	938	469	1,778	643	HUD VL	Jan-22	1,062	1,130	3,738	1,083	LONGIL	Jan-22	4,217	2,685	601	241
	Feb-22	1,019	231	1,899	887	1100 12	Feb-22	1,288	390	5,143	1,806	LONOL	Feb-22	4,110	1,658	1,021	355
	Mar-22	1,192	148	2,020	699	-	Mar-22	960	308	7,017	2,760		Mar-22	5,091	1,935	1,581	408
	Apr-22	1,046	165	2,180			Apr-22	1,400	172	5,721	1,227		Apr-22	4,736		918	469
	May-22	,					May-22			,	,		May-22	,	,		
	Jun-22						Jun-22						Jun-22				
	Jul-22						Jul-22						Jul-22				
	Aug-22						Aug-22						Aug-22				
	Sep-22						Sep-22						Sep-22				
	Oct-22						Oct-22						Oct-22				
	Nov-22						Nov-22						Nov-22				
	Dec-22						Dec-22						Dec-22				
CENTRL	Jan-22	1,317	1,284	1,104	364	MILLWD	Jan-22	1,104	654	867	262	NYISO	Jan-22	19,089	16,494	15,023	5,489
	Feb-22	1,665	499	1,780	409		Feb-22	1,805	462	1,367	312		Feb-22	23,629		21,545	6,898
	Mar-22	3,731	251	1,490	338		Mar-22	1,413	234	2,038	338		Mar-22	25,823	7,554	25,430	7,281
	Apr-22	4,837	390	1,415	307		Apr-22	2,136	172	1,257	309		Apr-22	26,526	7,560	22,626	5,713
	May-22						May-22						May-22				
	Jun-22						Jun-22						Jun-22				
	Jul-22					_	Jul-22						Jul-22				
	Aug-22					_	Aug-22						Aug-22				
	Sep-22					_	Sep-22						Sep-22				
	Oct-22					_	Oct-22						Oct-22				
	Nov-22 Dec-22						Nov-22 Dec-22						Nov-22 Dec-22				

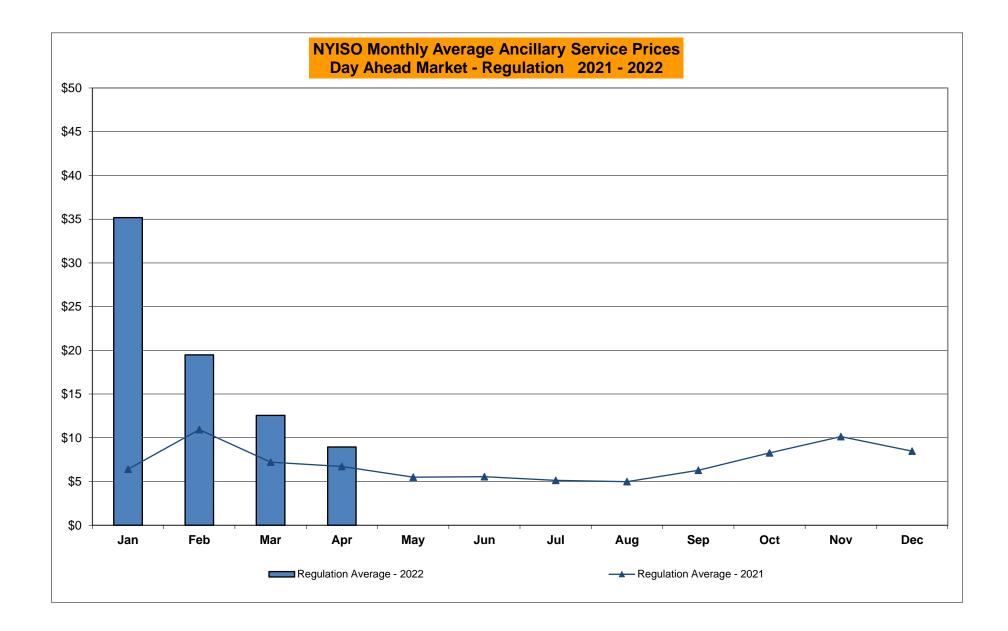


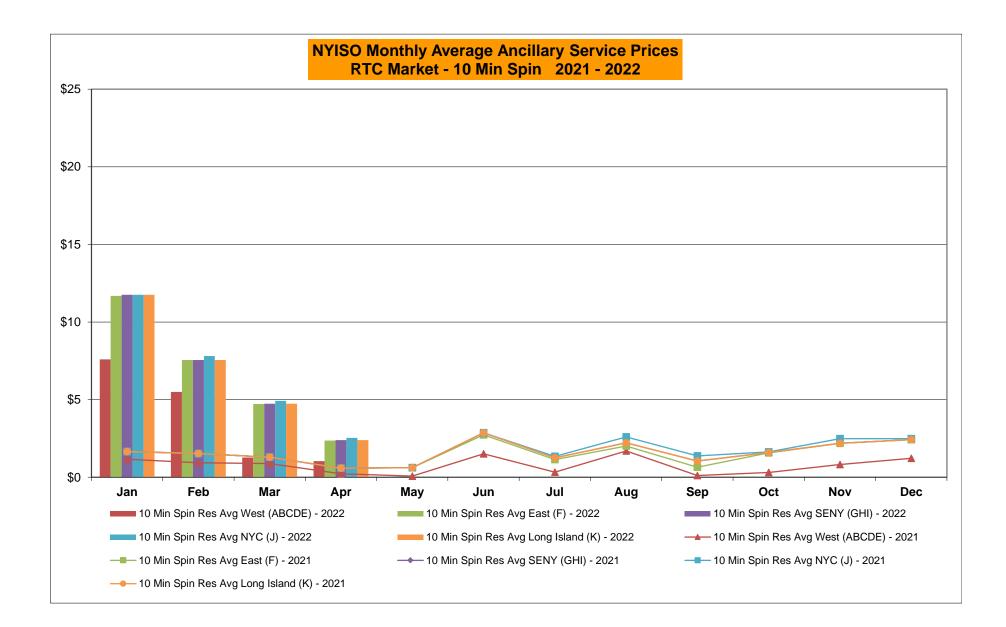
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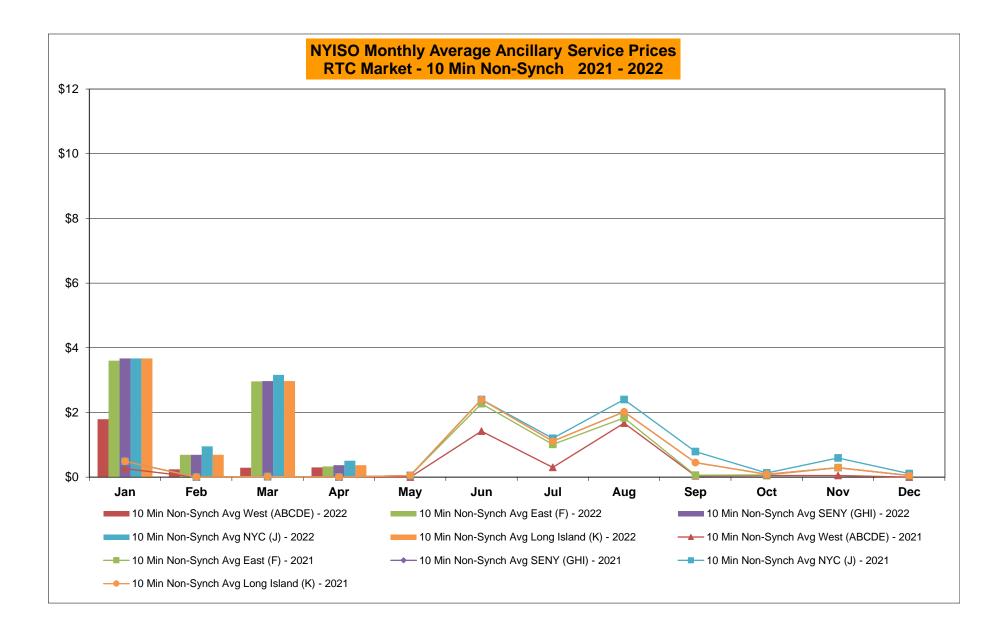


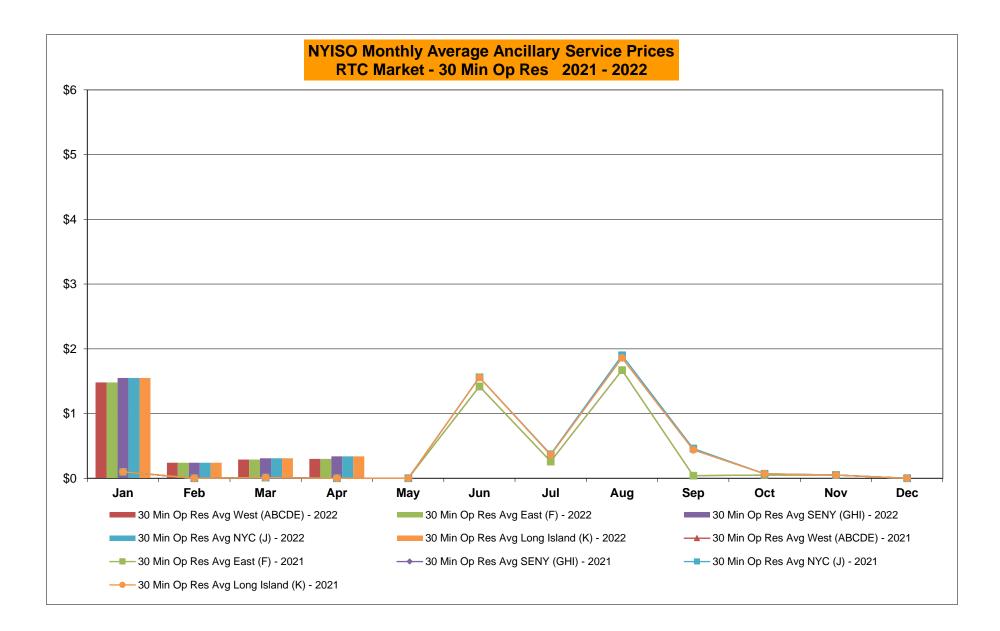


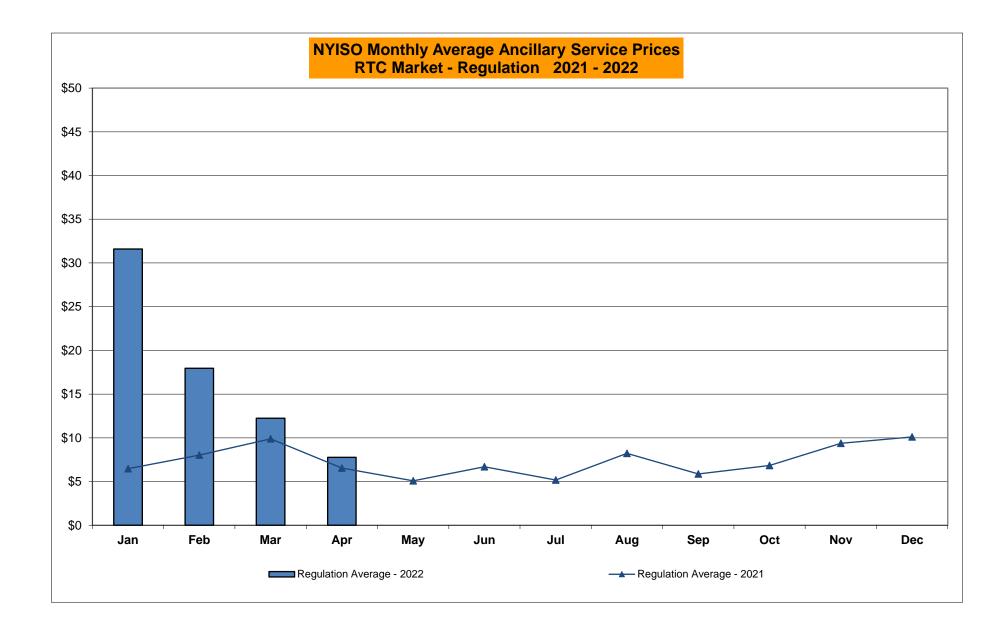


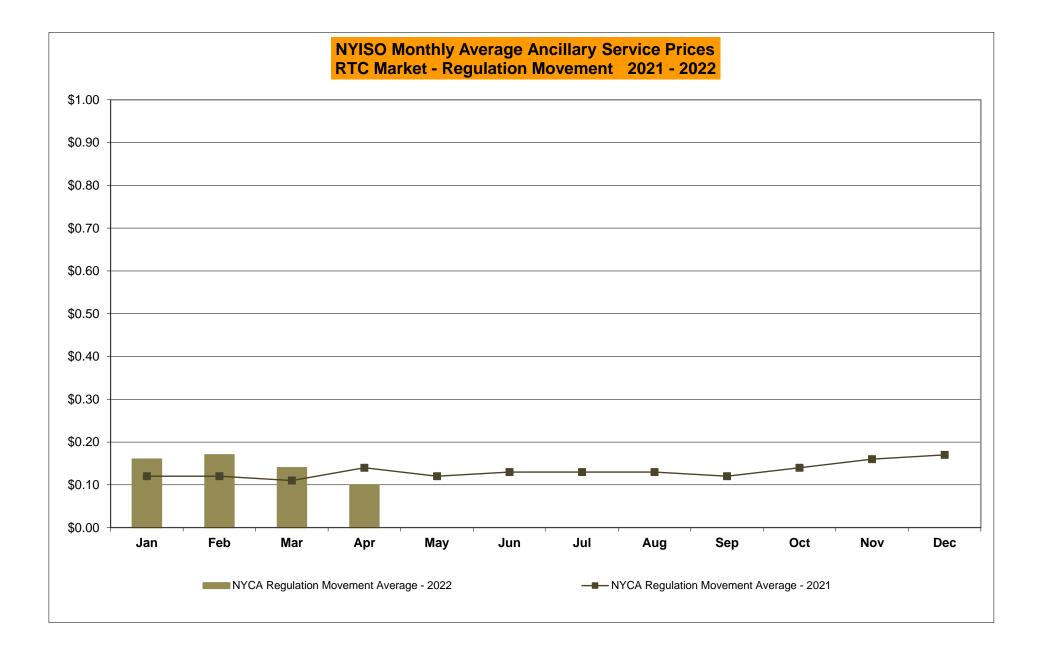


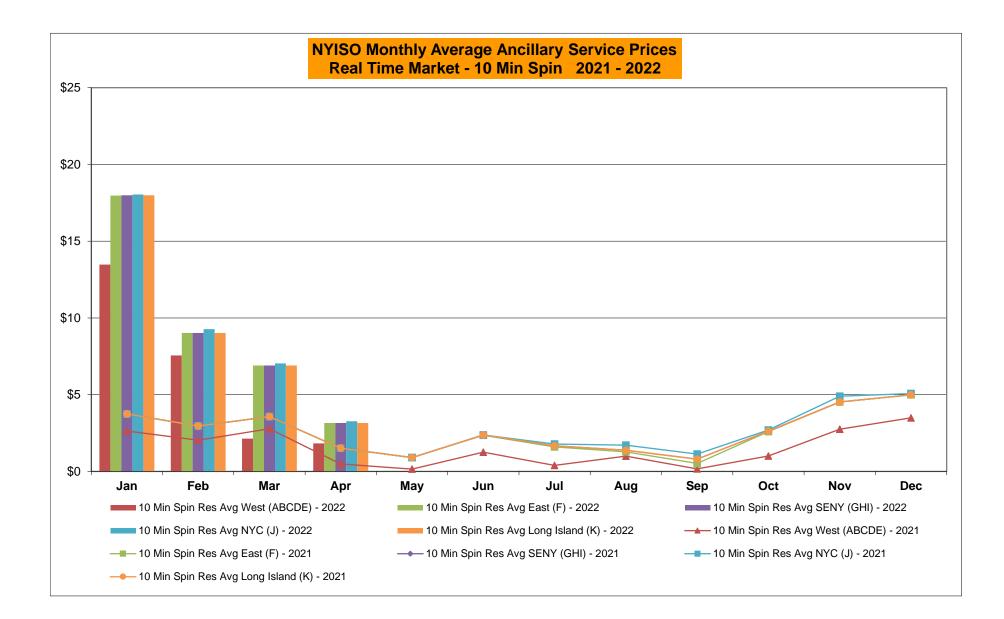


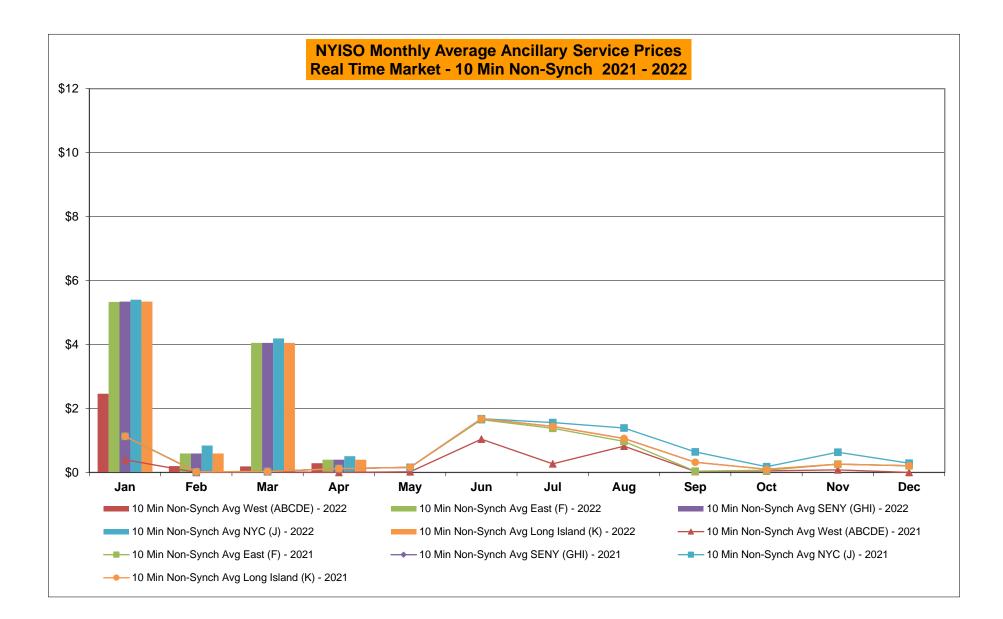


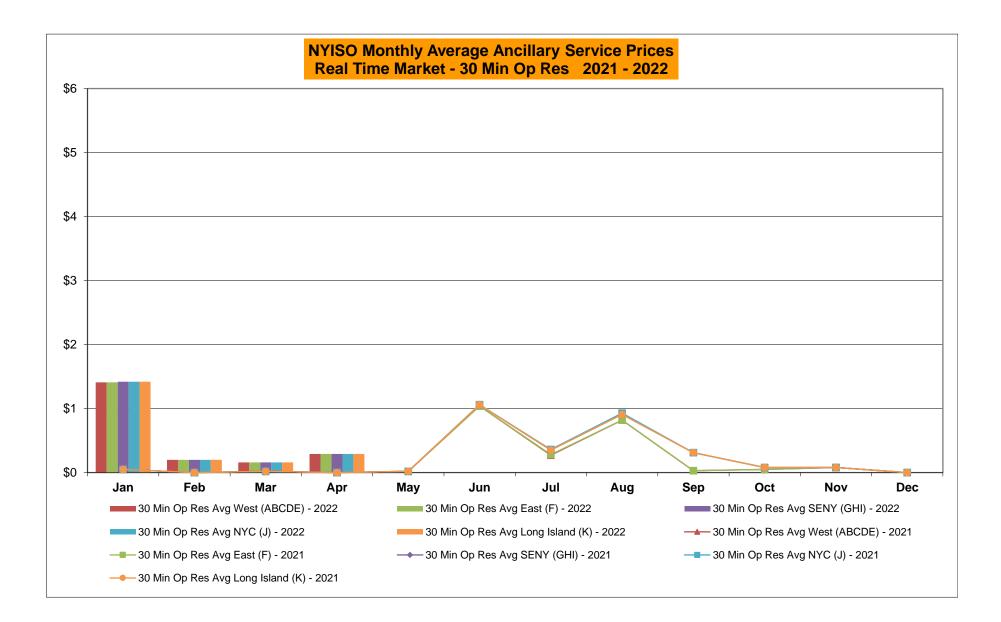


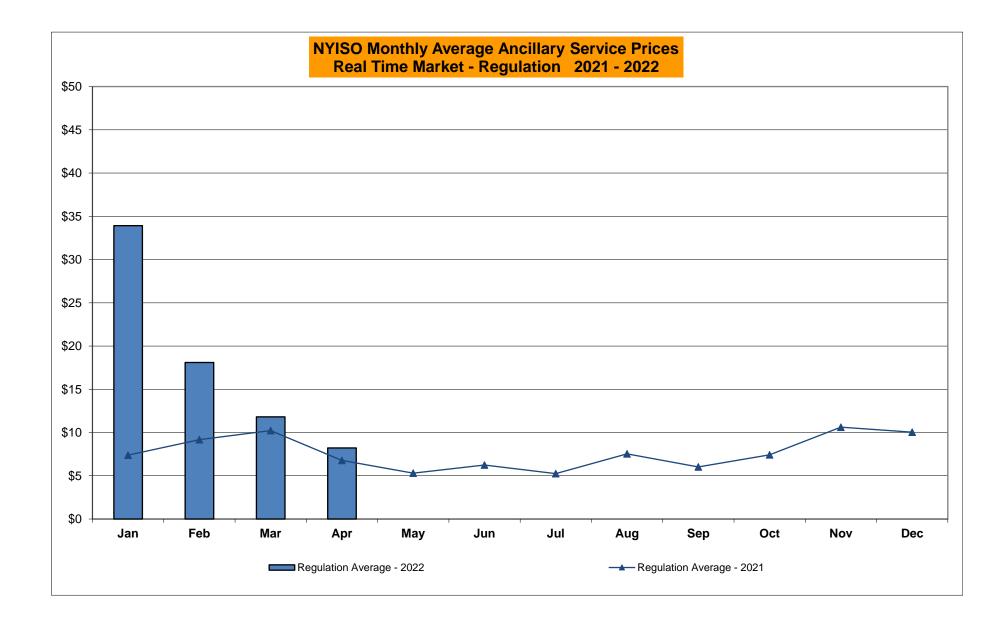


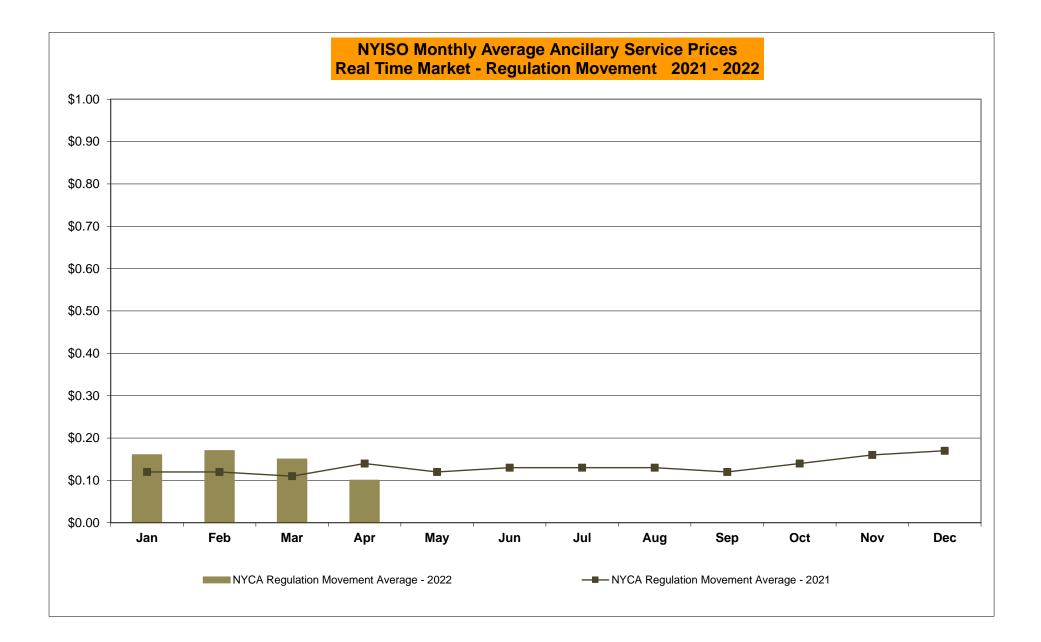












2222         January         Educational (N)         January         Harch         March         Mary         June         July         Augusts         Seldember         October         November         December           10 Mn. Spin Long Island (N)         14.40         11.34         6.78         6.79         6.80         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         6.79         7.74         6.79         7.74         6.78         6.78         6.79         7.74         6.66         4.50         7.74         4.67<											<u> </u>		
10 Min Spin Long Island (K)         14.40         11.34         6.76         6.70           10 Min Spin SENY (GHI)         14.40         11.34         6.76         6.70           10 Min Spin East (F)         14.37         11.30         6.74         6.70           10 Min Spin East (F)         14.37         11.30         6.74         6.70           10 Min Spin Mest (ABCDE)         12.74         8.93         6.48         5.07           10 Min No Synch Long Island (K)         10.061         10.66         6.20         4.88           10 Min No Synch KOC (J)         10.61         10.66         4.84         7.37           10 Min No Synch KOC (J)         9.48         6.68         4.87         7.30         7.40         4.67         4.59           30 Min Long Island (K)         8.92         7.40         4.67         4.59         3.00         7.35         4.66         4.50           30 Min SENY (GHI)         8.92         7.40         4.67         4.59         3.00         4.66         4.50           30 Min Long Island (K)         4.61         7.85         4.66         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33	2022	January	February	March	<u>April</u>	May	<u>June</u>	July	<u>August</u>	September	<u>October</u>	November	December
1 10 Min Spin NYC (J) 10 Min Spin Estry (GH) 10 Min													
10 Min Spin SENY (GHI)       14.40       11.34       E.76       6.70         10 Min Spin Reatt (F)       12.74       8.33       5.48       5.01         10 Min Spin Nest (ABCDE)       12.74       8.33       5.48       5.01         10 Min Non Synch Long Island (N)       9.70       9.48       5.68       4.87         10 Min Non Synch VC(J)       10.61       10.66       6.20       4.48         10 Min Non Synch Long Island (N)       9.66       9.44       5.66       4.76         30 Min Long Island (K)       8.92       7.40       4.67       4.59         30 Min Stynch West (ABCDE)       8.88       7.35       4.66       4.50         30 Min Stynch West (ABCDE)       8.88       7.35       4.66       4.50         30 Min Stynch Long Island (N)       8.92       7.40       4.67       4.59         30 Min Stynch Long Island (K)       8.92       7.40       4.67       4.59         30 Min East (F)       8.88       7.35       4.66       4.50         30 Min Mest (ABCDE)       8.88       7.35       4.66       4.50         30 Min East (F)       4.61       7.85       4.40       3.80       4.38       4.14       4.51       4.19       6.60	1 0 ()												
10 Min Spin East (r)       14.37       11.30       6.74       6.70         10 Min Spin West (ABCDE)       12.74       8.93       5.48       4.87         10 Min Non Synch NCV (J)       10.61       10.66       6.20       4.89         10 Min Non Synch NEWY (GHI)       3.70       9.48       5.68       4.437         10 Min Non Synch NEWY (GHI)       3.70       9.48       5.68       4.478         10 Min Non Synch Nest (ABCDE)       8.88       7.35       4.66       4.50         30 Min Long Island (K)       8.92       7.40       4.67       4.59         30 Min Synch Nest (ABCDE)       8.88       7.35       4.66       4.50         30 Min Synch Nest (ABCDE)       8.88       7.35       4.66       4.50         30 Min Synch Nest (ABCDE)       8.88       7.35       4.66       4.50         30 Min Synch Nest (ABCDE)       8.88       7.35       4.66       4.50         30 Min Synch Nest (ABCDE)       8.88       7.35       4.66       4.50         30 Min Synch NYC (J)       4.61       7.85       4.66       4.50         10 Min Spin Long Island (K)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06													
10 Min Spin Weat (ABCDE)       12 74       8.93       5.48       5.01         10 Min Non Synch Dag Island (K)       9.70       9.48       5.68       4.87         10 Min Non Synch NYC (J)       10.61       10.66       6.20       4.89         10 Min Non Synch NYC (J)       9.04       5.68       4.475         10 Min Non Synch Esat (F)       3.66       9.44       5.66       4.78         10 Min Non Synch Lesat (F)       8.92       7.40       4.67       4.59         30 Min Dry (GH)       8.92       7.40       4.67       4.59         30 Min Sext (ABCDE)       8.88       7.35       4.66       4.50         30 Min Sext (ABCDE)       8.88       7.35       4.66       4.50         30 Min Sext (ABCDE)       8.88       7.35       4.66       4.50         Regulation       35.17       19.48       12.66       8.94         Of Min Sext (ABCDE)       8.88       7.35       4.66       4.50         Back (ABCDE)       8.88       7.35       4.66       4.50       5.61       6.61       6.27       5.33         10 Min Spin Long Island (K)       4.61       7.85       4.46       3.80       3.78       3.91       3.60													
10 Min Non Synch Lung Island (K)       9.70       9.48       5.68       4.87         10 Min Non Synch NYC (J)       9.66       9.44       5.68       4.87         10 Min Non Synch SENY (GHI)       9.70       9.48       5.68       4.78         10 Min Non Synch SENY (GHI)       9.70       9.48       5.68       4.78         10 Min Non Synch SENY (GHI)       8.92       7.40       4.67       4.59         30 Min Long Island (K)       8.95       7.42       4.67       4.59         30 Min Long Island (K)       8.95       7.42       4.66       4.50         30 Min Sext (ABCDE)       8.88       7.35       4.66       4.50         30 Min Sext (ABCDE)       8.88       7.35       4.66       4.50         30 Min Sext (ABCDE)       8.88       7.35       4.66       4.50         2021       January       Rejutation       35.17       1.9.4       2.0.6       8.94         10 Min Spin Long Island (K)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin Set (F)       4.61       7.85       4.46       3.80       3.78       3.91 <td< td=""><td>1 ( )</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	1 ( )												
10 Min Non Šynch NVČ (J)       10.61       10.66       6.20       4.89         10 Min Non Synch SENY (GHI)       9.70       4.86       4.87         10 Min Non Synch East (F)       9.86       9.44       5.66       4.78         10 Min Non Synch Kext (ABCDE)       8.89       7.42       4.67       4.59         30 Min Long Island (K)       8.92       7.40       4.67       4.59         30 Min SENY (GHI)       8.92       7.40       4.67       4.59         30 Min Vic (J)       8.88       7.35       4.66       4.50         30 Min Vic (Met) (ABCDE)       8.88       7.35       4.66       4.50         30 Min Vic (J)       35.17       19.48       12.56       8.94         Zez Aneed Market       Duity       March       Mary       June       July       August       September       October       November       Desember         10 Min Spin Long Island (K)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin East (F)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05 </td <td>1 ( )</td> <td>12.74</td> <td></td> <td>5.48</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1 ( )	12.74		5.48									
10 Min Non Šynch SENY (GHI)       9.70       9.48       5.68       4.87         10 Min Non Synch SENY (GHI)       9.66       9.44       5.66       4.50         30 Min Non Synch West (ABCDE)       8.88       7.35       4.66       4.59         30 Min NVC (J)       8.95       7.42       4.67       4.59         30 Min SENY (GHI)       8.92       7.40       4.67       4.59         30 Min Sex (F)       8.88       7.35       4.66       4.50         30 Min West (ABCDE)       8.88       7.35       4.66       4.50         Regulation       35.17       19.48       12.56       8.94         Day Anead Market       Calcular Market       Cotober       November       December         10 Min Spin NTC (J)       4.68       8.01       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin NTC (J)       4.68       8.01       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin Set (F)       4.61       7.85       4.66       3.80       3.78       3.91       3.80       4.06 <td>, , , , , , , , , , , , , , , , , , , ,</td> <td></td>	, , , , , , , , , , , , , , , , , , , ,												
10 Min Non Synch East (F)       9.66       9.44       5.66       4.78         10 Min Non Synch West (ABCDE)       8.89       7.35       4.66       4.59         30 Min Long Island (K)       8.95       7.42       4.67       4.59         30 Min SENY (GH)       8.95       7.42       4.67       4.59         30 Min East (F)       8.88       7.35       4.66       4.50         30 Min Vest (ABCDE)       8.88       7.35       4.66       4.50         Regulation       35.17       19.48       12.56       8.94         Data Market         10 Min Spin Long Island (K)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin SENY (GHI)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin SENY (GHI)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin East (F)       4.61       7.85       4.46       3.80       3		10.61	10.66										
10 Min Non Synch West (ABCDE)       8.88       7.35       4.66       4.50         30 Min Long Island (K)       8.95       7.42       4.67       4.59         30 Min SENY (GHI)       8.92       7.40       4.67       4.59         30 Min SENY (GHI)       8.92       7.40       4.67       4.59         30 Min SENY (GHI)       8.92       7.40       4.67       4.59         30 Min Setax (F)       8.88       7.35       4.66       4.50         30 Min West (ABCDE)       8.88       7.35       4.66       4.50         Regulation       35.17       19.46       12.56       8.94		9.70	9.48	5.68									
30 Min Long Island (K)       8.92       7.40       4.67       4.59         30 Min SENY (GH)       8.95       7.42       4.67       4.59         30 Min SENY (GHI)       8.92       7.40       4.67       4.59         30 Min SENY (GHI)       8.82       7.35       4.66       4.50         30 Min Sent (K)       8.88       7.35       4.66       4.50         Regulation       35.17       19.48       12.56       8.94         2021       January       February       March       April       May       June       July       August       September       October       November       December         10 Min Spin Long Island (K)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin SenV (GHI)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin SenV (GHI)       4.61       7.85       4.46       3.80       3.78       3.99       3.84       3.44       4.51       4.19       6.69       6.60       5.56       10 Min Spin Nest (ABCDE		9.66	9.44	5.66									
30 Min NVČ (J)         8.95         7.42         4.67         4.59           30 Min East (F)         8.82         7.40         4.67         4.59           30 Min East (F)         8.88         7.35         4.66         4.50           30 Min West (ABCDE)         8.88         7.35         4.66         4.50           30 Min Sant (ABCDE)         8.88         7.35         4.66         4.50           2021         January         February         March         8.94           2021         January         February         March         8.94           10 Min Spin Long Island (K)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin NC2 (J)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin SENY (GHI)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin Sent (ABCDE)         4.01         7.65 <td>10 Min Non Synch West (ABCDE)</td> <td>8.88</td> <td>7.35</td> <td>4.66</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	10 Min Non Synch West (ABCDE)	8.88	7.35	4.66									
30 Min SENY (GHI)       8.92       7.40       4.67       4.59         30 Min East (F)       8.88       7.35       4.66       4.50         30 Min West (ABCDE)       8.88       7.35       4.66       4.50         By Anead Market       35.17       19.48       12.56       8.94         2021       January       February       March       April       May       June       July       August       September       October       November       December         10 Min Spin Long Island (K)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.33         10 Min Spin NYC (J)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.32         10 Min Spin Ster (GHI)       4.61       7.85       4.46       3.80       3.78       3.91       3.80       4.06       4.05       6.61       6.27       5.32         10 Min Spin Exer (F)       4.01       6.68       4.07       3.56       3.43       3.64       3.40       3.54       3.62       4.64       4.59       3.51	30 Min Long Island (K)	8.92	7.40	4.67	4.59								
30 Min East (F)         8.88         7.35         4.66         4.50           30 Min West (ABCDE)         8.88         7.35         4.66         4.50           Regulation         35.17         19.48         12.56         8.94           2021         January         February         March         April         May         June         July         August         September         October         November         December           10 Min Spin NCy (J)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin NCy (J)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin East (F)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin East (F)         4.01         6.68         4.07         3.56         3.43         3.64         3.40         3.54         3.62         4.64         4.67         3.97	30 Min NYC (J)	8.95	7.42	4.67	4.59								
30 Min West (ÅBCDE) Regulation         8.88 35.17         7.35 19.48         4.66 12.56         4.50 8.84           2021         January         February         March         April         May         June         July         August         September         October         November         December           2021         January         February         March         April         May         June         July         August         September         October         November         December           10 Min Spin Long Island (K)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin SenY (GHI)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin East (F)         4.61         7.85         4.46         3.80         3.78         3.89         3.64         3.80         4.66         4.47         3.32           10 Min Non Synch Long Island (K)         3.32         5.58         3.60         3.25         3.27         3.47         3.66         3.47         4.56 <td>30 Min SENY (GHI)</td> <td>8.92</td> <td>7.40</td> <td>4.67</td> <td>4.59</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	30 Min SENY (GHI)	8.92	7.40	4.67	4.59								
Regulation         35.17         19.48         12.56         8.94           2021         January         February         March         April         May         June         July         August         September         October         November         December           10 Min Spin Long Island (K)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin NPC (J)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin SENY (GHI)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin West (ABCDE)         4.01         6.68         4.07         3.56         3.43         3.64         3.87         3.92         6.49         6.26         5.32           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         4.56         4.37	30 Min East (F)	8.88	7.35	4.66	4.50								
2021         January         February         March         April         May         June         July         August         September         October         November         December           10 Min Spin Long Island (K)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin NVC (J)         4.68         8.01         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin SENY (GHI)         4.61         7.85         4.46         3.80         3.78         3.91         3.80         4.06         4.05         6.61         6.27         5.33           10 Min Spin East (F)         4.61         7.85         4.46         3.80         3.78         3.89         3.64         3.87         3.92         6.49         6.26         5.32           10 Min Son'synch NYC (J)         3.40         5.74         3.60         3.25         3.27         3.47         3.46         3.68         3.47         4.56         4.37         3.82           10 Min Non Synch NYC (J)         3.40         5.74	30 Min West (ABCDE)	8.88	7.35	4.66	4.50								
Day Ahead Market10 Min Spin Long Island (K)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin NYC (J)4.688.014.463.813.804.384.144.514.196.696.605.5610 Min Spin NYC (J)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin West (ABCDE)4.617.854.463.803.783.893.643.873.926.496.265.3210 Min Spin West (ABCDE)4.016.684.073.563.433.643.403.543.624.844.753.9710 Min Non Synch Long Island (K)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch NYC (J)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch Kest (ABCDE)3.225.283.603.253.273.473.463.683.474.564.373.8210 Min Non Synch Kest (ABCDE)3.225.253.573.193.173.313.193.313.274.444.353.8110 Min Non Synch Kest (ABCDE)3.225.253.573.193.173.333.403.623.414.254.023.71	Regulation	35.17	19.48	12.56	8.94								
Day Ahead Market10 Min Spin Long Island (K)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin NYC (J)4.688.014.463.813.804.384.144.514.196.696.605.5610 Min Spin SVY (GHI)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin West (ABCDE)4.617.854.463.803.783.893.643.873.926.496.265.3210 Min Spin West (ABCDE)4.016.684.073.563.433.643.403.543.624.844.753.9710 Min Non Synch Long Island (K)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch NYC (J)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch East (F)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch Kext (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.313.493.414.254.023.7130 Min SENY (GHI)													
10 Min Spin Long Island (K)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin NYC (J)4.688.014.463.813.804.384.144.514.196.696.605.5610 Min Spin SENY (GHI)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin East (F)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin West (ABCDE)4.016.684.073.563.433.643.403.543.624.844.753.9710 Min Non Synch Long Island (K)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch NYC (J)3.405.743.603.253.273.473.463.683.474.564.373.8210 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch Kest (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.443.444.254.023.7130 Min Sent West (ABCDE)3.225.25 <t< td=""><td></td><td>January</td><td>February</td><td>March</td><td><u>April</u></td><td>May</td><td><u>June</u></td><td><u>July</u></td><td><u>August</u></td><td>September</td><td>October</td><td>November</td><td>December</td></t<>		January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
10 Min Spin NYC (J)4.688.014.463.813.804.384.144.514.196.696.605.5610 Min Spin SENY (GHI)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin East (F)4.617.854.463.803.783.993.643.873.926.496.265.3210 Min Spin West (ABCDE)4.016.684.073.563.433.643.403.543.624.844.753.9710 Min Non Synch Long Island (K)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch SENY (GHU)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.403.623.414.254.023.7130 Min SENY (GHI)3.225.25													
10 Min Spin SENY (GHI)4.617.854.463.803.783.913.804.064.056.616.275.3310 Min Spin East (F)4.617.854.463.803.783.893.643.873.926.496.265.3210 Min Spin West (ABCDE)4.016.684.073.563.433.643.403.543.624.844.753.9710 Min Non Synch Long Island (K)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch NYC (J)3.405.743.603.253.273.473.463.683.474.564.373.8210 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch East (F)3.325.583.603.253.273.453.313.503.344.444.353.8110 Min Non Synch West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.403.623.414.274.023.7130 Min SENY (GHI)3.225.25	1 0 ()												
10 Min Spin East (F)4.617.854.463.803.783.893.643.873.926.496.265.3210 Min Spin West (ABCDE)4.016.684.073.563.433.643.403.543.624.844.753.9710 Min Non Synch Long Island (K)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch NYC (J)3.405.743.603.263.303.933.804.143.604.644.694.0510 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch East (F)3.325.583.603.253.273.473.463.683.474.644.694.0510 Min Non Synch West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.403.623.414.274.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.403.623.414.254.023.7130 Min SENY (GHI)3.225.253													
10 Min Spin West (ÅBCDE)4.016.684.073.563.433.643.403.543.624.844.753.9710 Min Non Synch Long Island (K)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch NYC (J)3.405.743.603.263.303.933.804.143.604.644.694.0510 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch East (F)3.325.583.603.253.273.453.313.503.344.444.353.8110 Min Non Synch West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min NYC (J)3.235.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min SENY (GHI)3.225.253.57 <td></td> <td>4.61</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.05</td> <td></td> <td></td> <td></td>		4.61								4.05			
10 Min Non Synch Long Island (K)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch NYC (J)3.405.743.603.263.303.933.804.143.604.644.694.0510 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch East (F)3.325.583.603.253.273.453.313.503.344.444.353.8110 Min Non Synch West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min NYC (J)3.235.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min SENY (GHI)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min SENY (GHI)3.225.253.573	1 ( )	4.61						3.64					
10 Min Non Synch NYC (J)3.405.743.603.263.303.933.804.143.604.644.694.0510 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch East (F)3.325.583.603.253.273.453.313.503.344.444.353.8110 Min Non Synch West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min NYC (J)3.235.253.573.193.173.333.403.623.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min East (F)3.225.253.573.193.17<			6.68	4.07				3.40	3.54	3.62		4.75	
10 Min Non Synch SENY (GHI)3.325.583.603.253.273.473.463.683.474.564.373.8210 Min Non Synch East (F)3.325.583.603.253.273.453.313.503.344.444.353.8110 Min Non Synch West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min NYC (J)3.235.253.573.193.173.333.403.623.414.274.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min East (F)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min East (F)3.225.253.573.193.17 <td< td=""><td>10 Min Non Synch Long Island (K)</td><td>3.32</td><td>5.58</td><td>3.60</td><td>3.25</td><td>3.27</td><td>3.47</td><td>3.46</td><td>3.68</td><td>3.47</td><td>4.56</td><td>4.37</td><td>3.82</td></td<>	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	4.56	4.37	3.82
10 Min Non Synch East (F)3.325.583.603.253.273.453.313.503.344.444.353.8110 Min Non Synch West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min NYC (J)3.235.253.573.193.183.533.403.623.414.274.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min East (F)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.70	10 Min Non Synch NYC (J)	3.40	5.74	3.60	3.26	3.30	3.93	3.80	4.14	3.60	4.64	4.69	4.05
10 Min Non Synch West (ÅBCDE)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min NYC (J)3.235.253.573.193.183.533.403.623.414.274.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min East (F)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.70	10 Min Non Synch SENY (GHI)	3.32	5.58	3.60	3.25	3.27	3.47	3.46	3.68	3.47	4.56	4.37	3.82
30 Min Long Island (K)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min NYC (J)3.235.253.573.193.183.533.403.623.414.274.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min East (F)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.70	10 Min Non Synch East (F)	3.32	5.58	3.60	3.25	3.27	3.45	3.31	3.50	3.34	4.44	4.35	3.81
30 Min NYC (J)3.235.253.573.193.183.533.403.623.414.274.023.7130 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min East (F)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.70	10 Min Non Synch West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31	3.19	3.31	3.27	4.14	4.01	3.70
30 Min SENY (GHI)3.225.253.573.193.173.333.343.493.414.254.023.7130 Min East (F)3.225.253.573.193.173.313.193.313.274.144.013.7030 Min West (ABCDE)3.225.253.573.193.173.313.193.313.274.144.013.70	30 Min Long Island (K)	3.22	5.25	3.57	3.19	3.17	3.33	3.34	3.49	3.41	4.25	4.02	3.71
30 Min East (F)         3.22         5.25         3.57         3.19         3.17         3.31         3.19         3.27         4.14         4.01         3.70           30 Min West (ABCDE)         3.22         5.25         3.57         3.19         3.17         3.31         3.19         3.27         4.14         4.01         3.70	30 Min NYC (J)	3.23	5.25	3.57	3.19	3.18	3.53	3.40	3.62	3.41	4.27	4.02	3.71
30 Min West (ABCDE) 3.22 5.25 3.57 3.19 3.17 3.31 3.19 3.31 3.27 4.14 4.01 3.70	30 Min SENY (GHI)	3.22	5.25	3.57	3.19	3.17	3.33	3.34	3.49	3.41	4.25	4.02	3.71
	30 Min East (F)	3.22	5.25	3.57	3.19	3.17	3.31	3.19	3.31	3.27	4.14	4.01	3.70
Regulation 6.40 10.93 7.21 6.72 5.50 5.55 5.13 4.98 6.29 8.27 10.13 8.47	30 Min West (ABCDE)	3.22	5.25	3.57	3.19	3.17	3.31	3.19	3.31	3.27	4.14	4.01	3.70
	Regulation	6.40	10.93	7.21	6.72	5.50	5.55	5.13	4.98	6.29	8.27	10.13	8.47

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

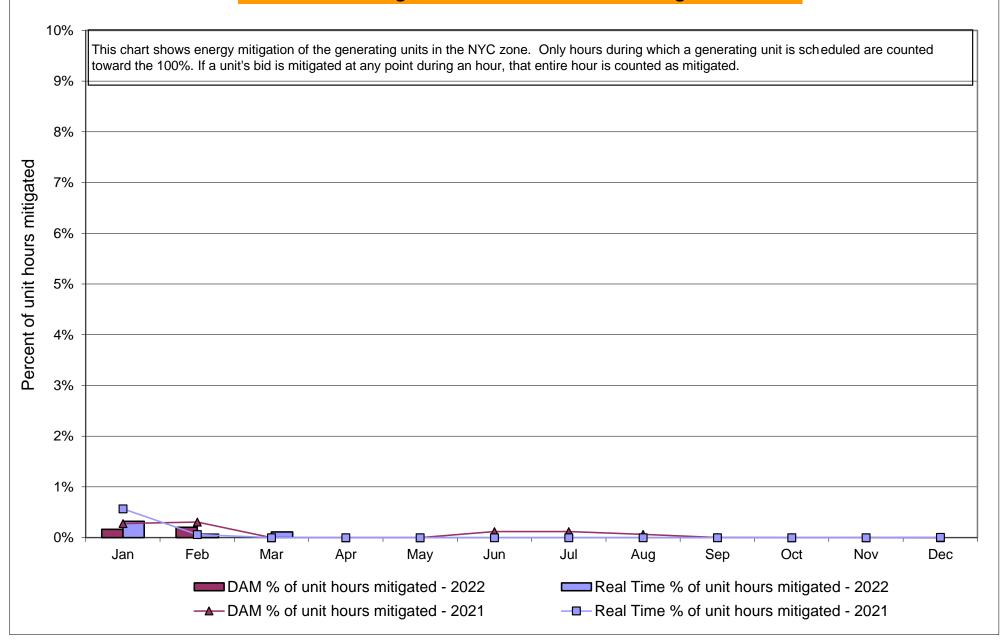
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<u>2022</u>	<u>January</u>	February	March	April	May	<u>June</u>	July	<u>August</u>	September	October	November	December
RTC Market	<u></u>	<u> </u>			<u></u>		<u></u>	<u></u>	<u></u>			
10 Min Spin Long Island (K)	11.75	7.55	4.73	2.39								
10 Min Spin NYC (J)	11.75	7.81	4.92	2.53								
10 Min Spin SENY (GHI)	11.75	7.55	4.73	2.39								
10 Min Spin East (F)	11.68	7.55	4.71	2.36								
10 Min Spin West (ABCDE)	7.59	5.49	1.27	1.03								
10 Min Non Synch Long Island (K)	3.67	0.69	2.97	0.37								
10 Min Non Synch NYC (J)	3.67	0.95	3.16	0.51								
10 Min Non Synch SENY (GHI)	3.67	0.69	2.97	0.37								
10 Min Non Synch East (F)	3.60	0.69	2.96	0.33								
10 Min Non Synch West (ABCDE)	1.79	0.24	0.29	0.30								
30 Min Long Island (K)	1.55	0.24	0.31	0.34								
30 Min NYC (J)	1.55	0.24	0.31	0.34								
30 Min SENY (GHI)	1.55	0.24	0.31	0.34								
30 Min East (F)	1.48	0.24	0.29	0.30								
30 Min West (ABCDE)	1.48	0.24	0.29	0.30								
Regulation	31.59	17.95	12.23	7.77								
NYCA Regulation Movement	0.16	0.17	0.14	0.10								
2021	lanuary	February	Marah	Anril	Max	lune e	L.L.	August	Contombor		N	December
	<u>January</u>	rebruary	March	April	May	June	July	August	September	October	November	December
RTC Market	January	rebruary	March	<u>Aprii</u>	iviay	June	July	August	September	October	November	December
	<u>5anuary</u> 1.65	1.53	1.29	0.58	0.61	<u>June</u> 2.86	<u>July</u> 1.25	<u>August</u> 2.21	<u>September</u> 1.04	<u>October</u> 1.59	<u>November</u> 2.18	<u>December</u> 2.42
RTC Market												
RTC Market 10 Min Spin Long Island (K)	1.65	1.53	1.29	0.58	0.61	2.86	1.25	2.21	1.04	1.59	2.18	2.42
RTC Market 10 Min Spin Long Island (K) 10 Min Spin NYC (J)	1.65 1.65	1.53 1.53	1.29 1.29	0.58 0.58	0.61 0.91	2.86 4.26	1.25 1.34	2.21 2.59	1.04 1.37	1.59 1.63	2.18 2.48	2.42 2.48
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)	1.65 1.65 1.65 1.65 1.65 1.16	1.53 1.53 1.53 1.53 0.93	1.29 1.29 1.29 1.29 0.88	0.58 0.58 0.58 0.58 0.22	0.61 0.91 0.61 0.61 0.07	2.86 4.26 2.86 2.73 1.51	1.25 1.34 1.25 1.14 0.32	2.21 2.59 2.21 2.01 1.69	1.04 1.37 1.04 0.64 0.11	1.59 1.63 1.59 1.57 0.30	2.18 2.48 2.18 2.18 0.82	2.42 2.48 2.42 2.42 1.22
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)	1.65 1.65 1.65 1.65 1.16 0.49	1.53 1.53 1.53 1.53 0.93 0.00	1.29 1.29 1.29 1.29 0.88 0.02	0.58 0.58 0.58 0.58 0.22 0.00	0.61 0.91 0.61 0.61 0.07 0.05	2.86 4.26 2.86 2.73 1.51 2.40	1.25 1.34 1.25 1.14 0.32 1.11	2.21 2.59 2.21 2.01 1.69 2.02	1.04 1.37 1.04 0.64 0.11 0.45	1.59 1.63 1.59 1.57 0.30 0.09	2.18 2.48 2.18 2.18 0.82 0.29	2.42 2.48 2.42 2.42 1.22 0.05
RTC Market         10 Min Spin Long Island (K)         10 Min Spin NYC (J)         10 Min Spin SENY (GHI)         10 Min Spin Long Island (F)         10 Min Spin West (ABCDE)         10 Min Non Synch Long Island (K)         10 Min Non Synch NYC (J)	1.65 1.65 1.65 1.16 1.16 0.49 0.49	1.53 1.53 1.53 1.53 0.93 0.00 0.00	1.29 1.29 1.29 1.29 0.88 0.02 0.02	0.58 0.58 0.58 0.58 0.22 0.00 0.00	0.61 0.91 0.61 0.07 0.05 0.35	2.86 4.26 2.86 2.73 1.51 2.40 3.80	1.25 1.34 1.25 1.14 0.32 1.11 1.20	2.21 2.59 2.21 2.01 1.69 2.02 2.40	1.04 1.37 1.04 0.64 0.11 0.45 0.79	1.59 1.63 1.59 1.57 0.30 0.09 0.13	2.18 2.48 2.18 2.18 0.82 0.29 0.59	2.42 2.48 2.42 2.42 1.22 0.05 0.11
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)	1.65 1.65 1.65 1.65 1.16 0.49 0.49 0.49	1.53 1.53 1.53 1.53 0.93 0.00 0.00 0.00	1.29 1.29 1.29 0.88 0.02 0.02 0.02	0.58 0.58 0.58 0.22 0.00 0.00 0.00	0.61 0.91 0.61 0.07 0.05 0.35 0.05	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40	1.25 1.34 1.25 1.14 0.32 1.11 1.20 1.11	2.21 2.59 2.21 2.01 1.69 2.02 2.40 2.02	1.04 1.37 1.04 0.64 0.11 0.45 0.79 0.45	1.59 1.63 1.59 1.57 0.30 0.09 0.13 0.09	2.18 2.48 2.18 0.82 0.29 0.59 0.29	2.42 2.48 2.42 2.42 1.22 0.05 0.11 0.05
RTC Market         10 Min Spin Long Island (K)         10 Min Spin NYC (J)         10 Min Spin SENY (GHI)         10 Min Spin West (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 SENY (GHI)         10 Min Non Synch SENY (GHI)         10 Min Non Synch East (F)	1.65 1.65 1.65 1.65 1.16 0.49 0.49 0.49 0.49	1.53 1.53 1.53 1.53 0.93 0.00 0.00 0.00 0.00	1.29 1.29 1.29 0.88 0.02 0.02 0.02 0.02	0.58 0.58 0.58 0.22 0.00 0.00 0.00 0.00	0.61 0.91 0.61 0.07 0.05 0.35 0.05 0.05	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40 2.27	1.25 1.34 1.25 1.14 0.32 1.11 1.20 1.11 1.01	2.21 2.59 2.21 2.01 1.69 2.02 2.40 2.02 1.83	1.04 1.37 1.04 0.64 0.11 0.45 0.79 0.45 0.06	1.59 1.63 1.59 1.57 0.30 0.09 0.13 0.09 0.07	2.18 2.48 2.18 2.18 0.82 0.29 0.59 0.29 0.29	2.42 2.48 2.42 2.42 1.22 0.05 0.11 0.05 0.05
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 SENY (GHI)         10 Min Non Synch Mext (F)         10 Min Non Synch West (ABCDE)	1.65 1.65 1.65 1.65 1.16 0.49 0.49 0.49 0.49 0.49 0.49	1.53 1.53 1.53 1.53 0.93 0.00 0.00 0.00 0.00 0.00	1.29 1.29 1.29 1.29 0.88 0.02 0.02 0.02 0.02 0.02 0.01	0.58 0.58 0.58 0.22 0.00 0.00 0.00 0.00 0.00	0.61 0.91 0.61 0.07 0.05 0.35 0.05 0.05 0.05 0.00	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40 2.27 1.42	1.25 1.34 1.25 1.14 0.32 1.11 1.20 1.11 1.01 0.30	2.21 2.59 2.21 2.01 1.69 2.02 2.40 2.02 1.83 1.67	1.04 1.37 1.04 0.64 0.11 0.45 0.79 0.45 0.06 0.04	1.59 1.63 1.59 1.57 0.30 0.09 0.13 0.09 0.07 0.05	2.18 2.48 2.18 2.18 0.82 0.29 0.59 0.29 0.29 0.29 0.29 0.05	2.42 2.48 2.42 2.42 1.22 0.05 0.11 0.05 0.05 0.05 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 Keat (F)         10 Min Non Synch West (ABCDE)         30 Min Long Island (K)	$\begin{array}{c} 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.16\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.26\\ 0.10\end{array}$	$\begin{array}{c} 1.53 \\ 1.53 \\ 1.53 \\ 1.53 \\ 0.93 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	1.29 1.29 1.29 0.88 0.02 0.02 0.02 0.02 0.02 0.01 0.01	0.58 0.58 0.58 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.61 0.91 0.61 0.07 0.05 0.05 0.05 0.05 0.00 0.00	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40 2.27 1.42 1.56	1.25 1.34 1.25 1.14 0.32 1.11 1.20 1.11 1.01 0.30 0.36	2.21 2.59 2.21 2.01 1.69 2.02 2.40 2.02 1.83 1.67 1.86	1.04 1.37 1.04 0.64 0.11 0.45 0.79 0.45 0.06 0.04 0.04	1.59 1.63 1.59 1.57 0.30 0.09 0.13 0.09 0.07 0.05 0.07	2.18 2.48 2.18 2.18 0.29 0.29 0.29 0.29 0.29 0.29 0.05 0.05	2.42 2.48 2.42 2.42 1.22 0.05 0.11 0.05 0.05 0.05 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 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 SENY (GHI)         10 Min Non Synch SENY (GHI)         10 Min Non Synch West (ABCDE)         30 Min Long Island (K)         30 Min NYC (J)	$\begin{array}{c} 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.16\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.26\\ 0.10\\ 0.10\\ 0.10\\ \end{array}$	$\begin{array}{c} 1.53 \\ 1.53 \\ 1.53 \\ 1.53 \\ 0.93 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	1.29 1.29 1.29 1.29 0.88 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01	0.58 0.58 0.58 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.61 0.91 0.61 0.07 0.05 0.35 0.05 0.05 0.05 0.00 0.00 0.00	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40 2.27 1.42 1.56 2.34	1.25 1.34 1.25 1.14 0.32 1.11 1.20 1.11 1.01 0.30 0.36 0.37	2.21 2.59 2.21 2.01 1.69 2.02 2.40 2.02 1.83 1.67 1.86 1.90	$ \begin{array}{c} 1.04\\ 1.37\\ 1.04\\ 0.64\\ 0.11\\ 0.45\\ 0.79\\ 0.45\\ 0.06\\ 0.04\\ 0.44\\ 0.46\\ \end{array} $	$ \begin{array}{c} 1.59\\ 1.63\\ 1.59\\ 1.57\\ 0.30\\ 0.09\\ 0.13\\ 0.09\\ 0.07\\ 0.05\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ 0.07$	2.18 2.48 2.18 2.18 0.82 0.29 0.59 0.29 0.29 0.29 0.05 0.05 0.05	2.42 2.48 2.42 2.42 1.22 0.05 0.11 0.05 0.05 0.05 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 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 SENY (GHI)         10 Min Non Synch Kest (ABCDE)         30 Min Non Synch West (ABCDE)         30 Min Long Island (K)         30 Min NYC (J)         30 Min SENY (GHI)	$\begin{array}{c} 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.16\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.26\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ \end{array}$	$ \begin{array}{c} 1.53\\ 1.53\\ 1.53\\ 0.93\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00$	1.29 1.29 1.29 0.88 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01	0.58 0.58 0.58 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.61 0.91 0.61 0.07 0.05 0.35 0.05 0.05 0.00 0.00 0.00 0.12 0.00	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40 2.27 1.42 1.56 2.34 1.56	$1.25 \\ 1.34 \\ 1.25 \\ 1.14 \\ 0.32 \\ 1.11 \\ 1.20 \\ 1.11 \\ 1.01 \\ 0.30 \\ 0.36 \\ 0.37 \\ 0.36$	2.21 2.59 2.21 2.01 1.69 2.02 2.40 2.02 1.83 1.67 1.86 1.90 1.86	$\begin{array}{c} 1.04\\ 1.37\\ 1.04\\ 0.64\\ 0.11\\ 0.45\\ 0.79\\ 0.45\\ 0.06\\ 0.04\\ 0.44\\ 0.46\\ 0.44\\ 0.44\end{array}$	$\begin{array}{c} 1.59\\ 1.63\\ 1.59\\ 1.57\\ 0.30\\ 0.09\\ 0.13\\ 0.09\\ 0.07\\ 0.05\\ 0.07\\ 0.07\\ 0.07\\ 0.07\\ \end{array}$	2.18 2.48 2.18 0.82 0.29 0.59 0.29 0.29 0.29 0.05 0.05 0.05 0.05	2.42 2.48 2.42 1.22 0.05 0.11 0.05 0.05 0.05 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 West (ABCDE)         10 Min Non Synch Long Island (K)         10 Min Non Synch NYC (J)         10 Min Non Synch East (F)         10 Min Non Synch East (F)         10 Min Non Synch East (F)         10 Min Non Synch West (ABCDE)         30 Min Long Island (K)         30 Min SENY (GHI)         30 Min SENY (GHI)         30 Min SENY (GHI)         30 Min SENY (GHI)         30 Min East (F)	$\begin{array}{c} 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.16\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.26\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\$	$\begin{array}{c} 1.53 \\ 1.53 \\ 1.53 \\ 1.53 \\ 0.93 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	1.29 1.29 1.29 0.88 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01	0.58 0.58 0.58 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.61 0.91 0.61 0.07 0.05 0.35 0.05 0.05 0.00 0.00 0.12 0.00 0.00 0.00	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40 2.27 1.42 1.56 2.34 1.56 1.42	$\begin{array}{c} 1.25\\ 1.34\\ 1.25\\ 1.14\\ 0.32\\ 1.11\\ 1.20\\ 1.11\\ 1.01\\ 0.30\\ 0.36\\ 0.37\\ 0.36\\ 0.26\end{array}$	2.21 2.59 2.21 1.69 2.02 2.40 2.02 1.83 1.67 1.86 1.90 1.86 1.67	$\begin{array}{c} 1.04\\ 1.37\\ 1.04\\ 0.64\\ 0.11\\ 0.45\\ 0.79\\ 0.45\\ 0.06\\ 0.04\\ 0.44\\ 0.44\\ 0.44\\ 0.04\\ \end{array}$	$\begin{array}{c} 1.59 \\ 1.63 \\ 1.59 \\ 1.57 \\ 0.30 \\ 0.09 \\ 0.13 \\ 0.09 \\ 0.07 \\ 0.05 \\ 0.07 \\ 0.07 \\ 0.07 \\ 0.05 \end{array}$	2.18 2.48 2.18 0.82 0.29 0.59 0.29 0.29 0.29 0.05 0.05 0.05 0.05 0.05	2.42 2.48 2.42 1.22 0.05 0.11 0.05 0.05 0.05 0.05 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 NYC (GHI)         10 Min Non Synch SENY (GHI)         10 Min Non Synch West (ABCDE)         30 Min Long Island (K)         30 Min NYC (J)         30 Min SENY (GHI)         30 Min East (F)         30 Min SENY (GHI)         30 Min East (F)         30 Min Kest (ABCDE)	$\begin{array}{c} 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.16\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.26\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\$	$\begin{array}{c} 1.53 \\ 1.53 \\ 1.53 \\ 1.53 \\ 0.93 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	1.29 1.29 1.29 0.88 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01	0.58 0.58 0.58 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.61 0.91 0.61 0.07 0.05 0.35 0.05 0.05 0.00 0.00 0.12 0.00 0.00 0.00 0.00	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40 2.27 1.42 1.56 2.34 1.56 1.42 1.42	$\begin{array}{c} 1.25\\ 1.34\\ 1.25\\ 1.14\\ 0.32\\ 1.11\\ 1.20\\ 1.11\\ 1.01\\ 0.30\\ 0.36\\ 0.37\\ 0.36\\ 0.26\\ 0.26\\ 0.26\end{array}$	2.21 2.59 2.21 1.69 2.02 2.40 2.02 1.83 1.67 1.86 1.90 1.86 1.67 1.67	$\begin{array}{c} 1.04\\ 1.37\\ 1.04\\ 0.64\\ 0.11\\ 0.45\\ 0.79\\ 0.45\\ 0.06\\ 0.04\\ 0.44\\ 0.46\\ 0.44\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ \end{array}$	$\begin{array}{c} 1.59 \\ 1.63 \\ 1.59 \\ 1.57 \\ 0.30 \\ 0.09 \\ 0.13 \\ 0.09 \\ 0.07 \\ 0.05 \\ 0.07 \\ 0.07 \\ 0.07 \\ 0.07 \\ 0.05 \\ 0.05 \\ 0.05 \end{array}$	2.18 2.48 2.18 0.82 0.29 0.59 0.29 0.29 0.05 0.05 0.05 0.05 0.05 0.05	2.42 2.48 2.42 1.22 0.05 0.11 0.05 0.05 0.05 0.05 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 West (ABCDE)         10 Min Non Synch Long Island (K)         10 Min Non Synch NYC (J)         10 Min Non Synch East (F)         10 Min Non Synch East (F)         10 Min Non Synch East (F)         10 Min Non Synch West (ABCDE)         30 Min Long Island (K)         30 Min SENY (GHI)         30 Min SENY (GHI)         30 Min SENY (GHI)         30 Min SENY (GHI)         30 Min East (F)	$\begin{array}{c} 1.65\\ 1.65\\ 1.65\\ 1.65\\ 1.16\\ 0.49\\ 0.49\\ 0.49\\ 0.49\\ 0.26\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\ 0.10\\$	$\begin{array}{c} 1.53 \\ 1.53 \\ 1.53 \\ 1.53 \\ 0.93 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	1.29 1.29 1.29 0.88 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01	0.58 0.58 0.58 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.61 0.91 0.61 0.07 0.05 0.35 0.05 0.05 0.00 0.00 0.12 0.00 0.00 0.00	2.86 4.26 2.86 2.73 1.51 2.40 3.80 2.40 2.27 1.42 1.56 2.34 1.56 1.42	$\begin{array}{c} 1.25\\ 1.34\\ 1.25\\ 1.14\\ 0.32\\ 1.11\\ 1.20\\ 1.11\\ 1.01\\ 0.30\\ 0.36\\ 0.37\\ 0.36\\ 0.26\end{array}$	2.21 2.59 2.21 1.69 2.02 2.40 2.02 1.83 1.67 1.86 1.90 1.86 1.67	$\begin{array}{c} 1.04\\ 1.37\\ 1.04\\ 0.64\\ 0.11\\ 0.45\\ 0.79\\ 0.45\\ 0.06\\ 0.04\\ 0.44\\ 0.44\\ 0.44\\ 0.04\\ \end{array}$	$\begin{array}{c} 1.59 \\ 1.63 \\ 1.59 \\ 1.57 \\ 0.30 \\ 0.09 \\ 0.13 \\ 0.09 \\ 0.07 \\ 0.05 \\ 0.07 \\ 0.07 \\ 0.07 \\ 0.07 \\ 0.05 \end{array}$	2.18 2.48 2.18 0.82 0.29 0.59 0.29 0.29 0.29 0.05 0.05 0.05 0.05 0.05	2.42 2.48 2.42 1.22 0.05 0.11 0.05 0.05 0.05 0.05 0.00 0.00

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

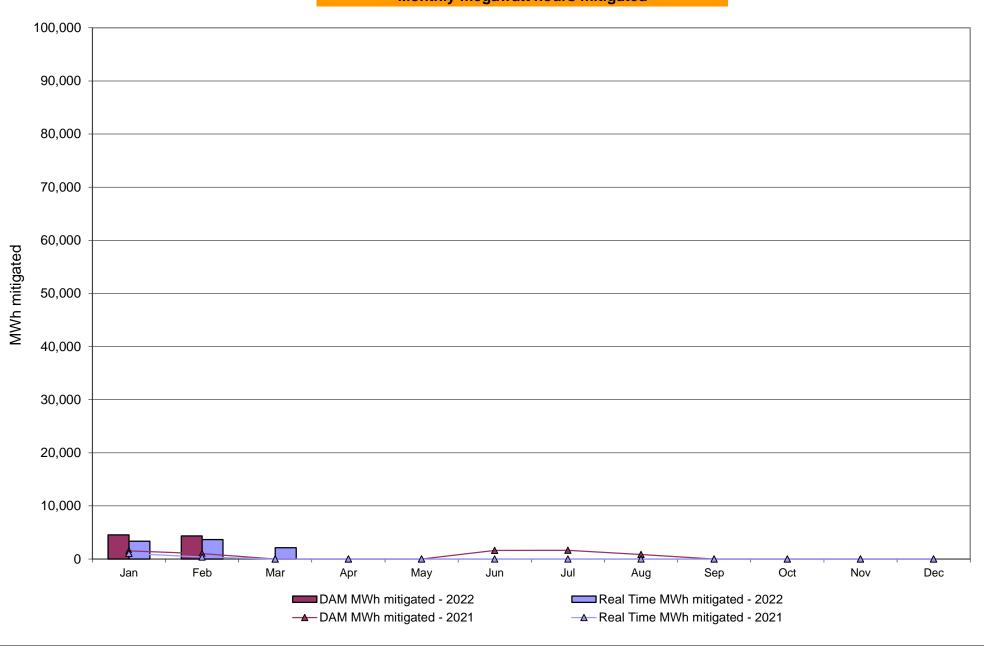
					11131163 -	Unitelig			•••••			
<u>2022</u>	January	<b>February</b>	March	April	May	<u>June</u>	July	<u>August</u>	<u>September</u>	October	November	December
Real Time Market	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>		<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	
10 Min Spin Long Island (K)	17.99	9.02	6.90	3.15								
10 Min Spin NYC (J)	18.04	9.27	7.04	3.27								
10 Min Spin SENY (GHI)	17.99	9.02	6.90	3.15								
10 Min Spin East (F)	17.97	9.02	6.90	3.15								
10 Min Spin West (ABCDE)	13.47	7.56	2.14	1.83								
10 Min Non Synch Long Island (K)	5.34	0.59	4.05	0.40								
10 Min Non Synch NYC (J)	5.40	0.84	4.19	0.51								
10 Min Non Synch SENY (GHI)	5.34	0.59	4.05	0.40								
10 Min Non Synch East (F)	5.33	0.59	4.05	0.40								
10 Min Non Synch West (ABCDE)	2.46	0.20	0.19	0.29								
30 Min Long Island (K)	1.42	0.20	0.16	0.29								
30 Min NYC (J)	1.42	0.20	0.16	0.29								
30 Min SENY (GHI)	1.42	0.20	0.16	0.29								
30 Min East (F)	1.41	0.20	0.16	0.29								
30 Min West (ABCDE)	1.41	0.20	0.16	0.29								
Regulation	33.92	18.10	11.81	8.22								
NYCA Regulation Movement	0.16	0.17	0.15	0.10								
<u>2021</u>	January	<b>February</b>	March	<u>April</u>	May	June	July	August	September	October	November	December
Real Time Market												
10 Min Spin Long Island (K)	3.75	2.96	3.57	1.51	0.90	2.38	1.67	1.38	0.80	2.62	4.53	4.99
10 Min Spin NYC (J)	3.75	2.96	3.57	1.51	1.16	3.77	1.78	1.71	1.13	2.70	4.90	5.07
10 Min Spin SENY (GHI)	3.75	2.96	3.57	1.51	0.90	2.38	1.67	1.38	0.80	2.62	4.53	4.99
10 Min Spin East (F)	3.75	2.96	3.57	1.51	0.90	2.35	1.60	1.28	0.52	2.59	4.53	4.99
10 Min Spin West (ABCDE)	2.64	2.03	2.78	0.49	0.15	1.25	0.39	0.99	0.16	1.01	2.75	3.49
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	0.10	0.26	0.21
10 Min Non Synch NYC (J)	1.13	0.02	0.03	0.12	0.42	3.07	1.56	1.39	0.64	0.18	0.63	0.29
10 Min Non Synch SENY (GHI)	1.13	0.02	0.03	0.12	0.16	1.68	1.44	1.06	0.32	0.10	0.26	0.21
10 Min Non Synch East (F)	1.13	0.02	0.03	0.12	0.16	1.65	1.38	0.97	0.04	0.07	0.26	0.21
10 Min Non Synch West (ABCDE)	0.40	0.00	0.02	0.00	0.02	1.04	0.27	0.82	0.03	0.05	0.08	0.00
30 Min Long Island (K)	0.40 0.05	0.00 0.00	0.02 0.02	0.00 0.00	0.02	1.06	0.27 0.35	0.91	0.31	0.08	0.08	0.00
30 Min Long Island (K) 30 Min NYC (J)	0.40 0.05 0.05	0.00 0.00 0.00	0.02 0.02 0.02	0.00 0.00 0.00	0.02 0.12	1.06 1.84	0.27 0.35 0.36	0.91 0.93	0.31 0.31	0.08 0.08	0.08 0.08	0.00 0.00
30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI)	0.40 0.05 0.05 0.05	0.00 0.00 0.00 0.00	0.02 0.02 0.02 0.02	0.00 0.00 0.00 0.00	0.02 0.12 0.02	1.06 1.84 1.06	0.27 0.35 0.36 0.35	0.91 0.93 0.91	0.31 0.31 0.31	0.08 0.08 0.08	0.08 0.08 0.08	0.00 0.00 0.00
30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F)	0.40 0.05 0.05 0.05 0.05	0.00 0.00 0.00 0.00 0.00	0.02 0.02 0.02 0.02 0.02	0.00 0.00 0.00 0.00 0.00	0.02 0.12 0.02 0.02	1.06 1.84 1.06 1.04	0.27 0.35 0.36 0.35 0.28	0.91 0.93 0.91 0.82	0.31 0.31 0.31 0.03	0.08 0.08 0.08 0.05	0.08 0.08 0.08 0.08	0.00 0.00 0.00 0.00
30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F) 30 Min West (ABCDE)	0.40 0.05 0.05 0.05 0.05 0.05	0.00 0.00 0.00 0.00 0.00 0.00	0.02 0.02 0.02 0.02 0.02 0.02 0.02	0.00 0.00 0.00 0.00 0.00 0.00	0.02 0.12 0.02 0.02 0.02	1.06 1.84 1.06 1.04 1.04	0.27 0.35 0.36 0.35 0.28 0.27	0.91 0.93 0.91 0.82 0.82	0.31 0.31 0.03 0.03 0.03	0.08 0.08 0.08 0.05 0.05	0.08 0.08 0.08 0.08 0.08	0.00 0.00 0.00 0.00 0.00
30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F)	0.40 0.05 0.05 0.05 0.05	0.00 0.00 0.00 0.00 0.00	0.02 0.02 0.02 0.02 0.02	0.00 0.00 0.00 0.00 0.00	0.02 0.12 0.02 0.02	1.06 1.84 1.06 1.04	0.27 0.35 0.36 0.35 0.28	0.91 0.93 0.91 0.82	0.31 0.31 0.31 0.03	0.08 0.08 0.08 0.05	0.08 0.08 0.08 0.08	0.00 0.00 0.00 0.00

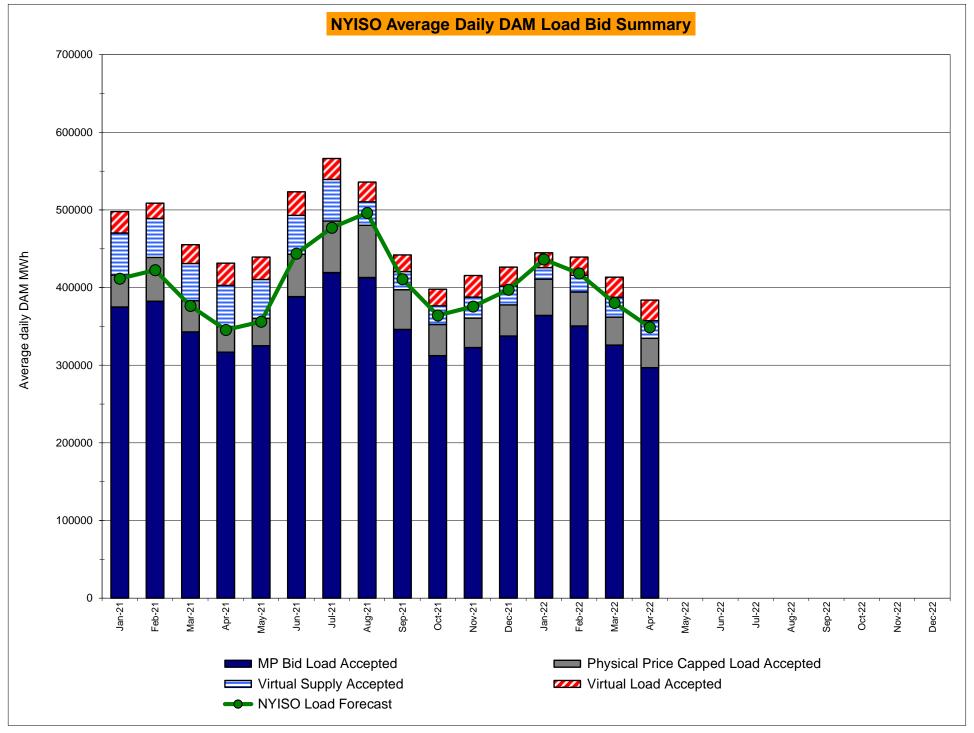
### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

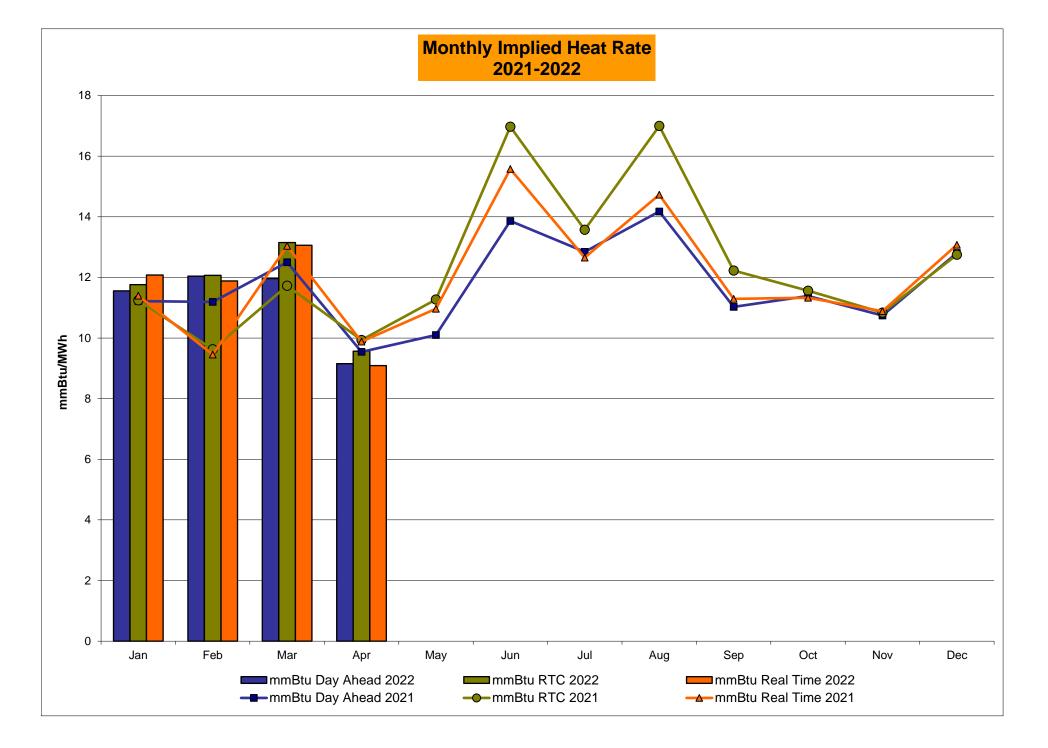
### NYISO In City Energy Mitigation - AMP (NYC Zone) 2021 - 2022 Percentage of committed unit-hours mitigated



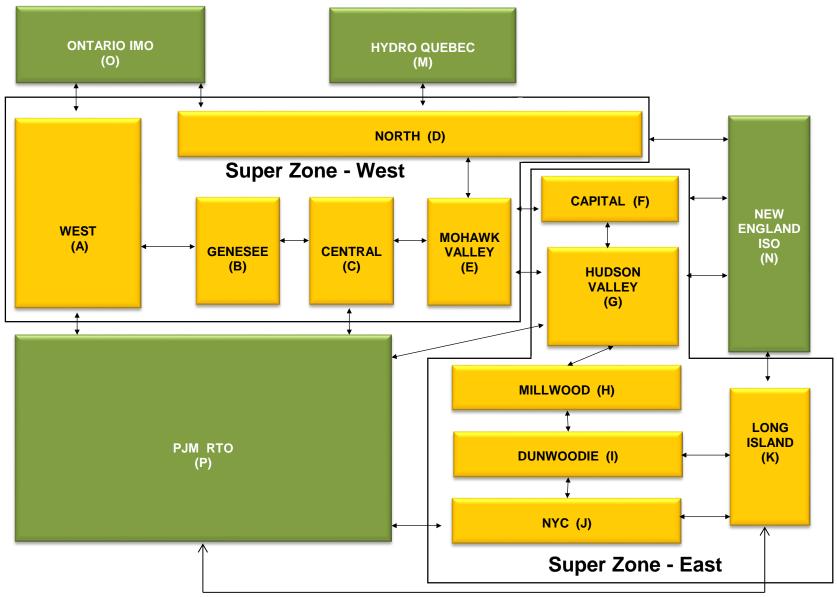
#### NYISO In City Energy Mitigation (NYC Zone) 2021 - 2022 Monthly megawatt hours mitigated







# NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 5/12/2022 11:19 AM

### Billing Codes for Chart C

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

# **Our Mission & Vision**

 $\checkmark$ 

## **Mission**

Ensure power system reliability and competitive markets for New York in a clean energy future



### Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation

