

Market Operations Report

Rana Mukerji

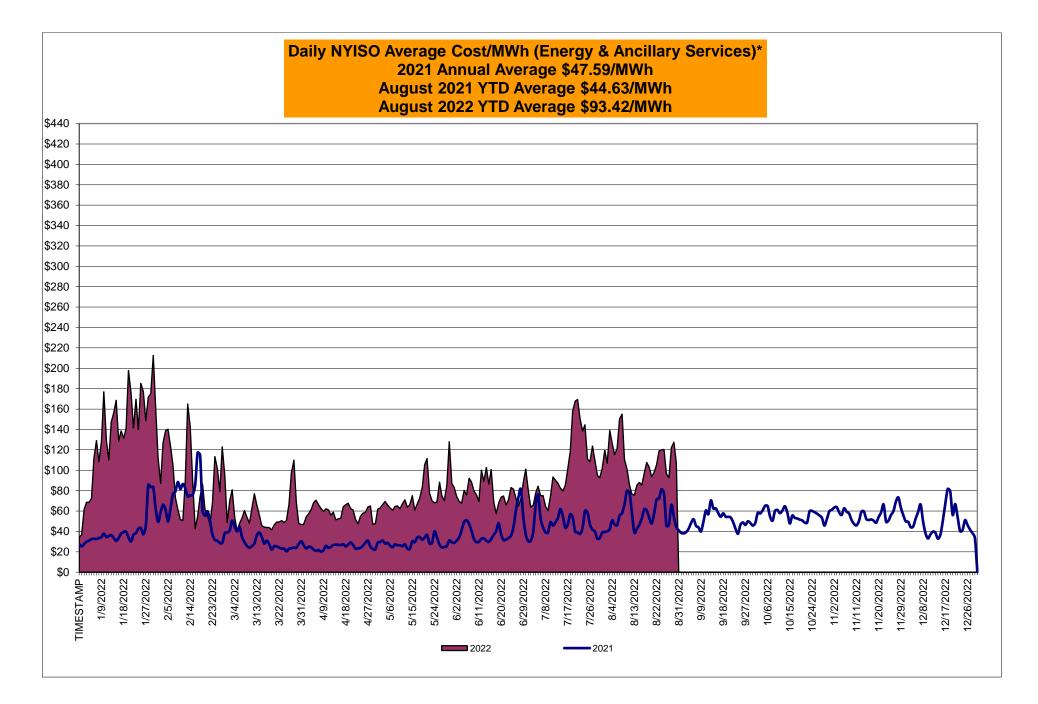
SENIOR VICE PRESIDENT – MARKET STRUCTURES, NYISO

Business Issues Committee Meeting

September 21, 2022 Rensselaer, NY

Market Performance Highlights August 2022

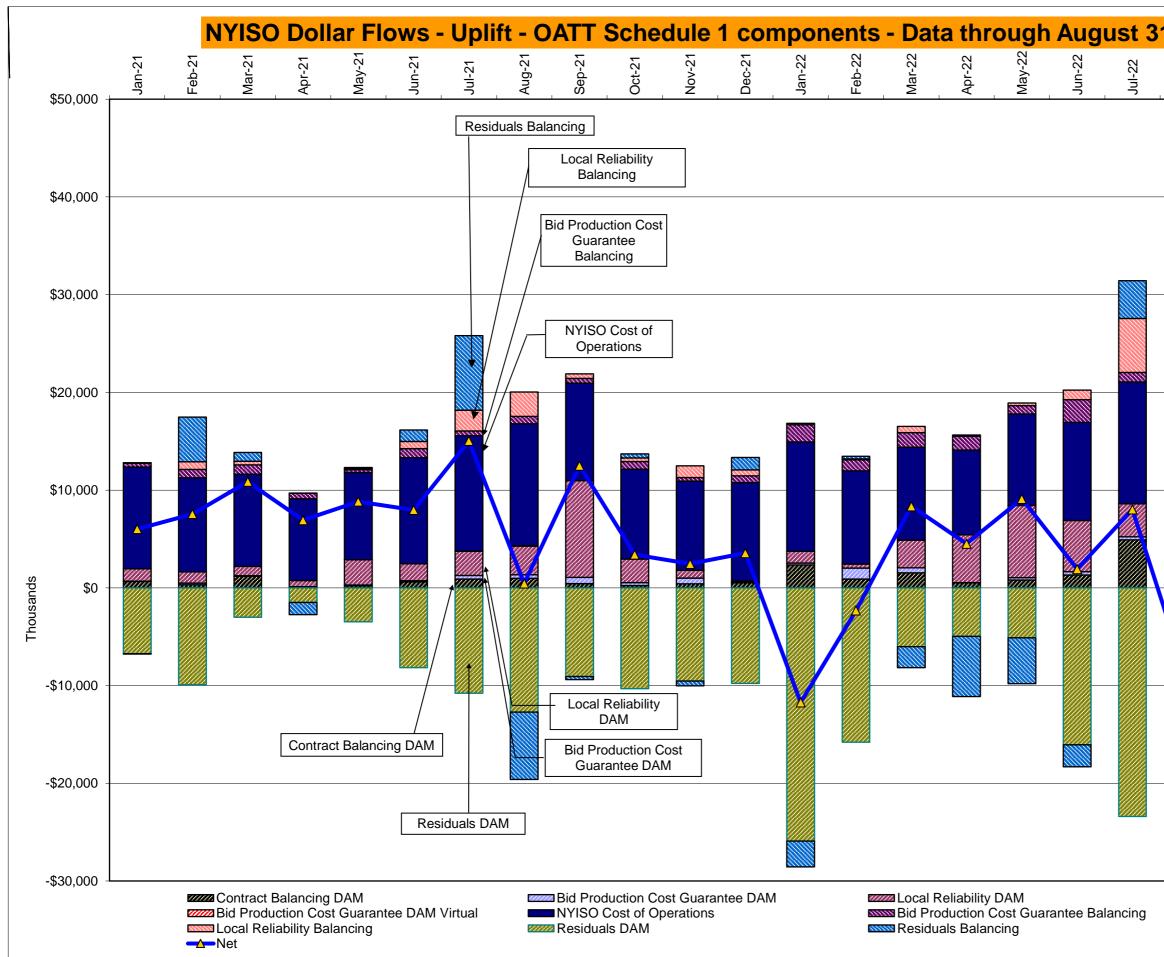
- LBMP for August is \$108.85/MWh; higher than \$99.47/MWh in July 2022 and \$55.48/MWh in August 2021.
 - Day Ahead Load Weighted LBMPs and Real Time Load Weighted LBMPs are higher compared to July.
- August 2022 average year-to-date monthly cost of \$93.42/MWh is a 109% increase from \$44.63/MWh in August 2021.
- Average daily sendout is 514 GWh/day in August; higher than 509 GWh/day in July 2022 and 504 GWh/day in August 2021.
- Natural gas prices are higher and distillate prices are lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$8.13/MMBtu, up from \$6.74/MMBtu in July.
 - Natural gas prices (Transco Z6 NY) are up 116.6% year-over-year.
 - Jet Kerosene Gulf Coast was \$24.75/MMBtu, down from \$26.01/MMBtu in July.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$25.68/MMBtu, down from \$26.65/MMBtu in July.
 - Distillate prices are up 79.2% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$1.91)/MWh; lower than (\$1.58)/MWh in July.
 - Local Reliability Share is \$0.47/MWh, lower than \$0.54/MWh in July.
 - Statewide Share is (\$2.38)/MWh, lower than (\$2.12)/MWh in July.
 - TSA \$ per NYC MWh is \$1.70/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than July.



* Excludes ICAP payments.

			<u></u>									
2022 LBMP	<u>January</u> 134.79	<u>February</u> 94.06	<u>March</u> 56.78	<u>April</u> 56.46	<u>May</u> 70.60	<u>June</u> 76.72	<u>July</u> 99.47	<u>August</u> 108.85	<u>September</u>	<u>October</u>	<u>November</u>	December
NTAC	1.43	0.95	1.48	1.17	2.46	2.07	3.65	1.69				
Reserve	1.43	1.21	0.83	0.81	0.74	0.66	0.87	0.65				
Regulation	0.27	0.19	0.03	0.12	0.13	0.00	0.07	0.03				
NYISO Cost of Operations	0.73	0.72	0.74	0.72	0.74	0.75	0.72	0.76				
FERC Fee Recovery	0.07	0.08	0.09	0.10	0.09	0.08	0.06	0.06				
Uplift	(1.50)	(1.73)	(0.09)	(0.36)	(0.05)	(0.61)	(1.58)	(1.91)				
Uplift: Local Reliability Share	0.09	0.04	0.27	0.43	0.60	0.46	0.54	0.47				
Uplift: Statewide Share	(1.59)	(1.77)	(0.36)	(0.79)	(0.65)	(1.07)	(2.12)	(2.38)				
Voltage Support and Black Start	0.42	0.41	0.43	0.43	0.43	0.43	0.43	0.43				
Avg Monthly Cost	137.41	95.82	60.34	59.38	75.07	80.17	103.73	110.61				
Avg montiny bost	107.41	55.62	00.04	00.00	10.01	00.17	100.70	110.01				
Avg YTD Cost	137.49	118.36	100.65	91.92	88.82	87.37	90.31	93.42				
TSA \$ per NYC MWh	0.00	2.98	0.00	0.00	0.11	0.00	3.98	1.70				
2021	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
LBMP	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	0.09	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	0.09	0.15	0.11	0.06	0.22	0.17	0.30	0.33	0.78	0.23	0.16	0.05
Uplift: Statewide Share	(0.40)	(0.30)	0.00	(0.18)	(0.41)	(0.68)	(0.39)	(1.14)	(0.78)	(0.81)	(0.74)	(0.53)
Voltage Support and Black Start	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.44	0.42
Avg Monthly Cost	40.61	66.87	31.81	26.06	29.45	42.65	48.79	57.73	50.70	56.11	57.43	50.76
Avg YTD Cost	40.69	52.99	46.57	42.41	40.10	40.59	42.05	44.63	45.34	46.35	47.29	47.59
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.52	0.90	0.93	0.24	0.56	0.39	0.10	0.00

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



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

1, 20	22 geb-55	Oct-22	Nov-22	Dec-22	
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NYISO Markets Transactions

022	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>Decer</u>
Day Ahead Market MWh	14,327,101	12,477,485	12,137,757	10,992,578	12,176,102	12,945,740	15,905,937	15,770,210				
DAM LSE Internal LBMP Energy Sales	57%	56%	59%	56%	55%	60%	64%	63%				
DAM External TC LBMP Energy Sales	7%	8%	3%	5%	6%	3%	3%	3%				
DAM Bilateral - Internal Bilaterals	28%	28%	29%	31%	31%	29%	26%	26%				
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	4%	4%	4%	5%	4%	4%	4%	5%				
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	1%				
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%				
Balancing Energy Market MWh	942,823	742,449	758,386	772,666	378,503	464,231	567,602	785,464				
Balancing Energy LSE Internal LBMP Energy Sales	88%	83%	76%	60%	65%	66%	72%	86%				
Balancing Energy External TC LBMP Energy Sales	16%	19%	24%	33%	32%	36%	23%	14%				
Balancing Energy Bilateral - Internal Bilaterals	1%	2%	2%	0%	5%	2%	1%	0%				
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	2%	2%	2%	0%				
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	4%	9%	8%	7%	9%	8%	6%	3%				
Balancing Energy Bilateral - Wheel Through Bilaterals	-9%	-13%	-10%	-1%	-12%	-14%	-4%	-3%				
Transactions Summary												
LBMP	67%	66%	65%	62%	63%	64%	68%	68%				
Internal Bilaterals	26%	27%	27%	29%	30%	28%	25%	25%				
Import Bilaterals	3%	4%	4%	4%	4%	4%	3%	4%				
Export Bilaterals	2%	2%	2%	2%	2%	2%	2%	1%				
Wheels Through	1%	1%	2%	2%	2%	2%	1%	1%				
Market Share of Total Load												
Day Ahead Market	93.8%	94.4%	94.1%	93.4%	97.0%	96.5%	96.6%	95.3%				
Balancing Energy +	6.2%	5.6%	5.9%	6.6%	3.0%	3.5%	3.4%	4.7%				
Total MWH	15,269,924	13,219,933	12,896,143	11,765,244	12,554,605	13,409,971	16,473,538	16,555,674				
Average Daily Energy Sendout/Month GWh	451	429	390	359	372	422	509	514				

<u>2021</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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.

Market Mitigation and Analysis Prepared: 9/9/2022 12:02 PM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

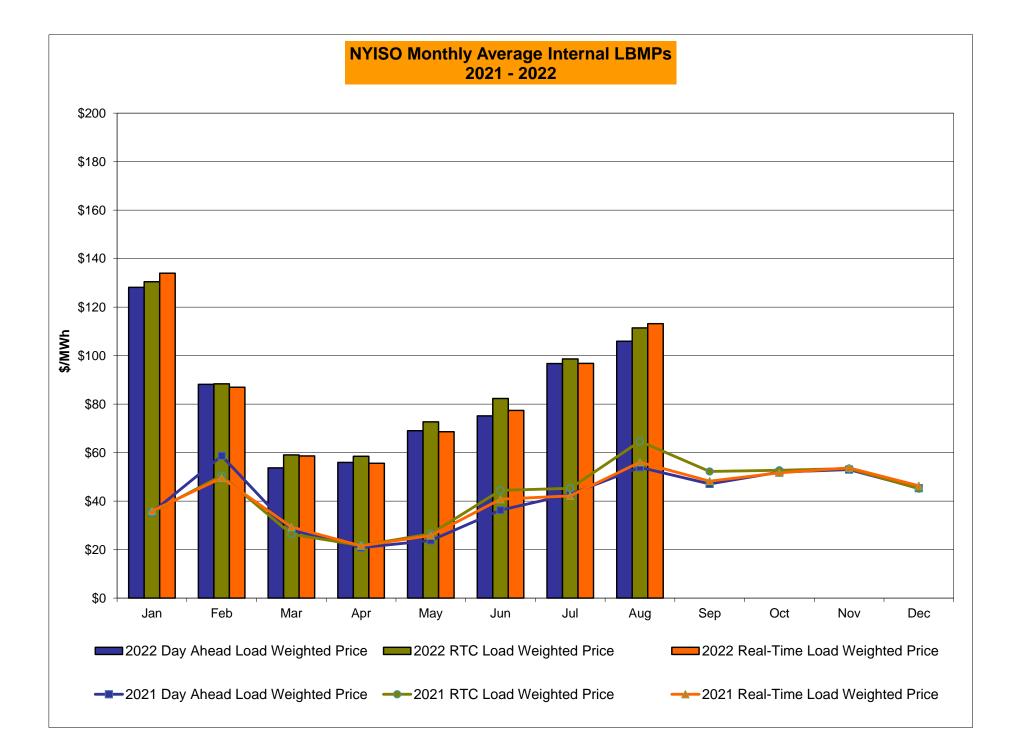
NYISO Markets 2022 Energy Statistics

	<u>January</u>	February	March	April	May	June	July	<u>August</u>	<u>September</u>	October I	November	<u>December</u>
DAY AHEAD LBMP								-				
Price *	\$124.39	\$85.98	\$52.41	\$55.23	\$66.11	\$72.43	\$90.42	\$100.71				
Standard Deviation	\$51.94	\$39.56	\$18.64	\$11.05	\$21.60	\$19.84	\$40.00	\$33.52				
Load Weighted Price **	\$128.16	\$88.17	\$53.69	\$55.96	\$69.05	\$75.15	\$96.74	\$105.93				
RTC LBMP												
Price *	\$127.16	\$85.48	\$57.58	\$57.33	\$68.27	\$78.66	\$92.25	\$104.69				
Standard Deviation	\$77.62	\$55.20	\$38.62	\$21.09	\$42.87	\$49.85	\$49.28	\$51.96				
Load Weighted Price **	\$130.45	\$88.33	\$59.03	\$58.49	\$72.67	\$82.33	\$98.61	\$111.42				
REAL TIME LBMP												
Price *	\$130.43	\$83.85	\$57.00	\$54.45	\$65.07	\$74.01	\$90.23	\$105.61				
Standard Deviation	\$93.35	\$57.99	\$44.52	\$20.46	\$33.01	\$41.27	\$54.20	\$69.83				
Load Weighted Price **	\$133.98	\$86.99	\$58.64	\$55.57	\$68.60	\$77.40	\$96.79	\$113.16				
Average Daily Energy Sendout/Month GWh	451	429	390	359	372	422	509	514				

NYISO Markets 2021 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August S	<u>September</u>	<u>October</u>	November [<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
RTC LBMP 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.



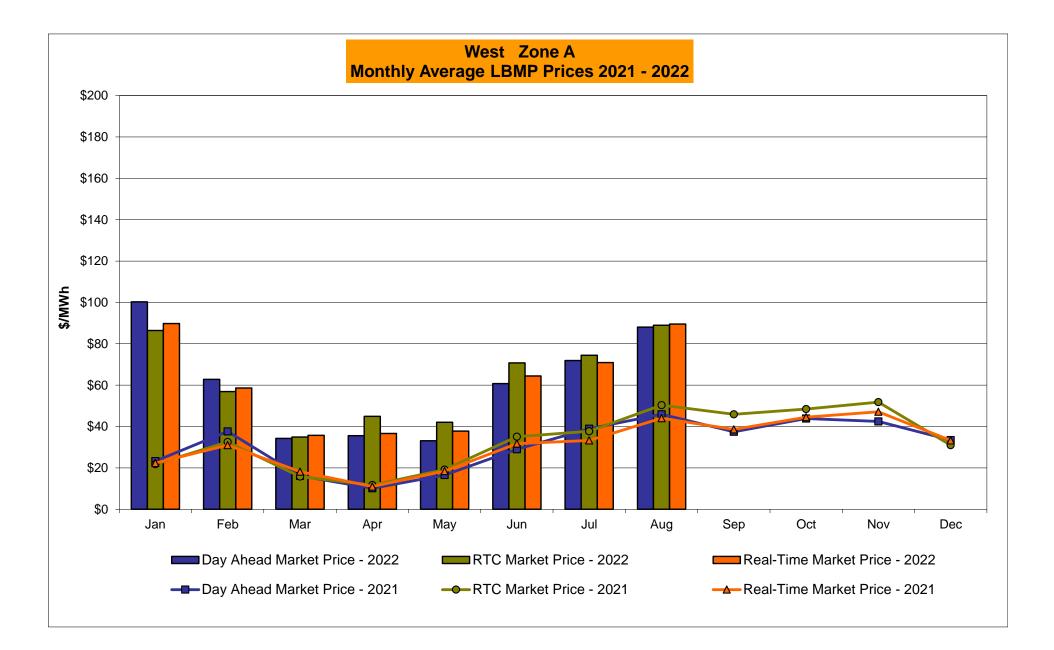
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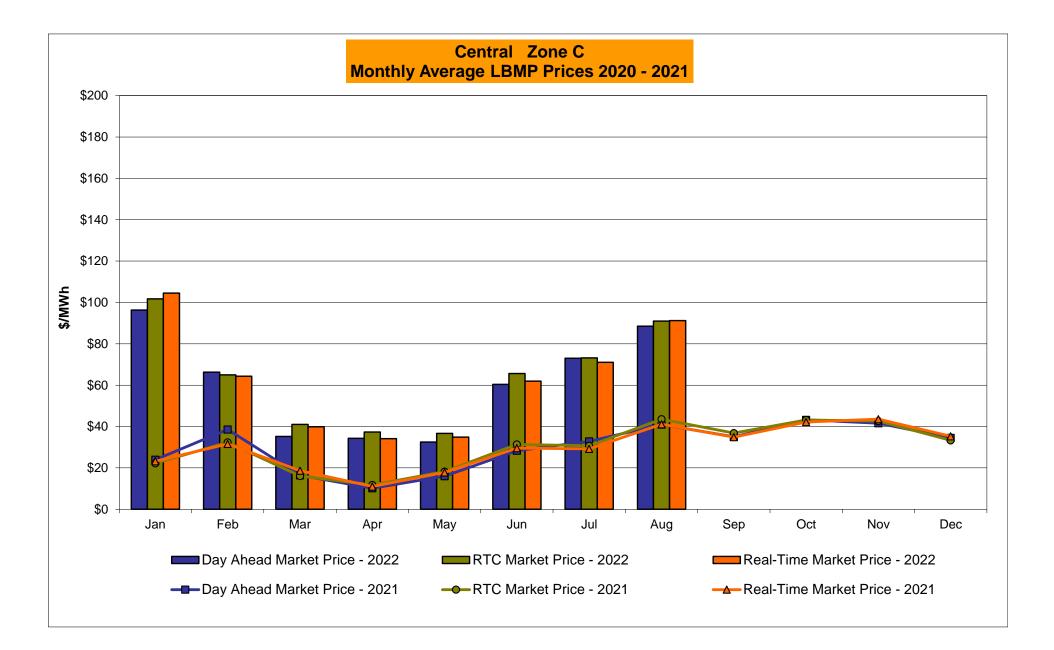
August 2022 Zonal LBMP Statistics for NYISO (\$/MWh)

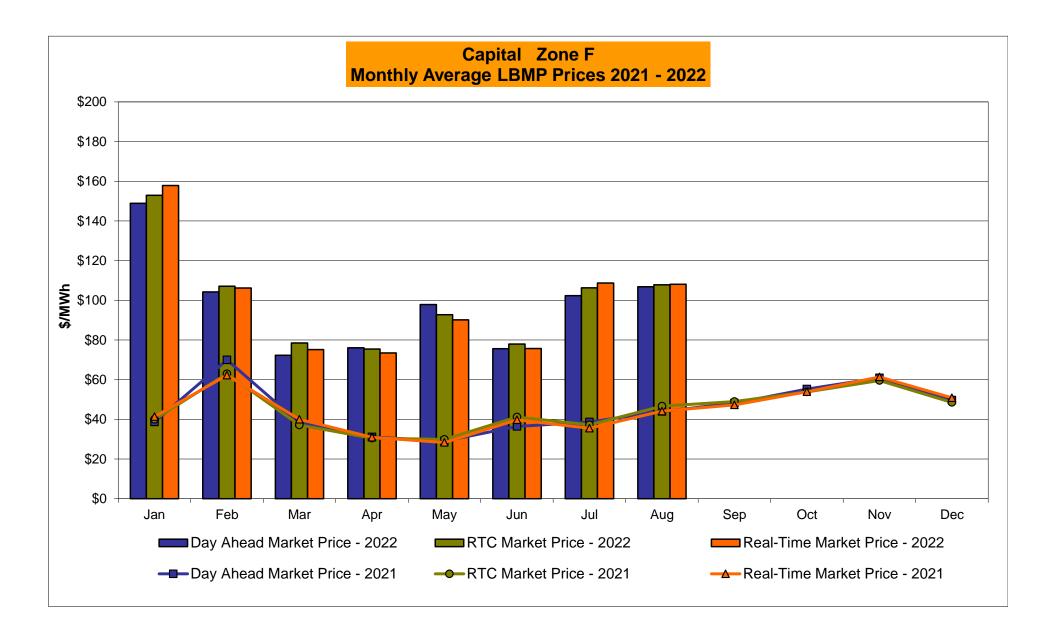
	WEST <u>Zone A</u>	GENESEE Zone B	NORTH <u>Zone D</u>	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE <u>Zone I</u>	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP	00.07	07.40	70.00	00.47	00.40	100 70	100.00	400.05	400.00	101.10	
Unweighted Price *	88.07	87.19	73.06	88.47	89.49	106.79	100.86	102.05	102.83	104.10	115.60
Standard Deviation	25.99	23.55	20.74	23.93	24.45	48.27	32.23	32.88	33.35	33.71	50.73
RTC LBMP											
Unweighted Price *	88.98	89.68	76.70	90.98	91.11	107.81	105.14	107.37	108.74	110.05	118.95
Standard Deviation	37.38	47.33	53.67	37.70	37.30	70.51	54.94	58.89	61.73	62.03	75.43
<u>REAL TIME LBMP</u>											
Unweighted Price *	89.52	90.87	77.99	91.24	92.03	108.11	106.80	109.02	110.32	111.64	117.80
Standard Deviation	46.03	53.78	60.70	47.70	49.22	84.01	75.11	79.90	82.41	82.51	89.23

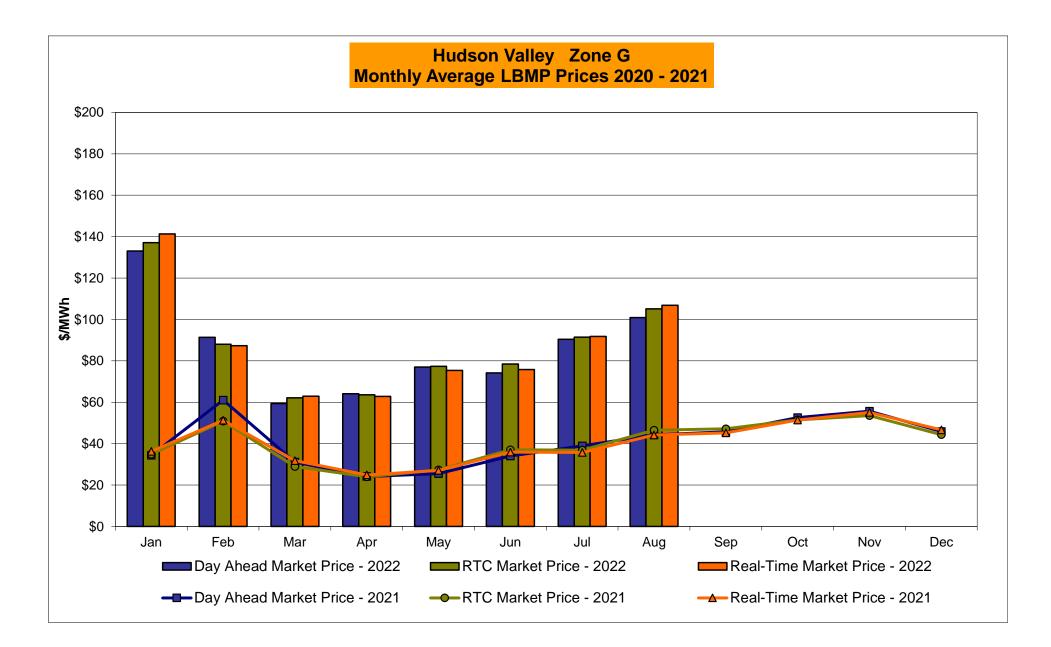
	ONTARIO	HYDRO QUEBEC	HYDRO QUEBEC		NEW	CROSS SOUND	NORTHPORT-				
	IESO		(Import/Export)	РЈМ	ENGLAND	CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		. ,	,			Controllable	Controllable	Controllable	<u>Controllable</u>	<u>Controllable</u>	Controllable
	<u>Zone O</u>	<u>Zone M</u>	Zone M	Zone P	<u>Zone N</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	83.40	77.52	77.52	94.87	98.60	116.43	100.61	109.52	101.02	102.84	71.64
Standard Deviation	22.41	20.44	20.44	28.26	37.19	54.70	30.95	39.15	29.80	32.95	20.08
RTC LBMP											
Unweighted Price *	83.52	79.60	79.60	98.80	99.52	117.89	108.10	114.28	106.86	107.79	71.60
Standard Deviation	28.59	35.36	35.36	45.00	54.69	73.50	58.83	68.40	56.97	58.29	65.89
REAL TIME LBMP											
Unweighted Price *	86.65	79.67	79.67	99.84	99.61	117.47	103.46	113.23	108.79	109.46	70.83
Standard Deviation	43.77	46.65	46.65	61.11	68.70	89.67	79.75	83.34	78.94	79.38	66.78

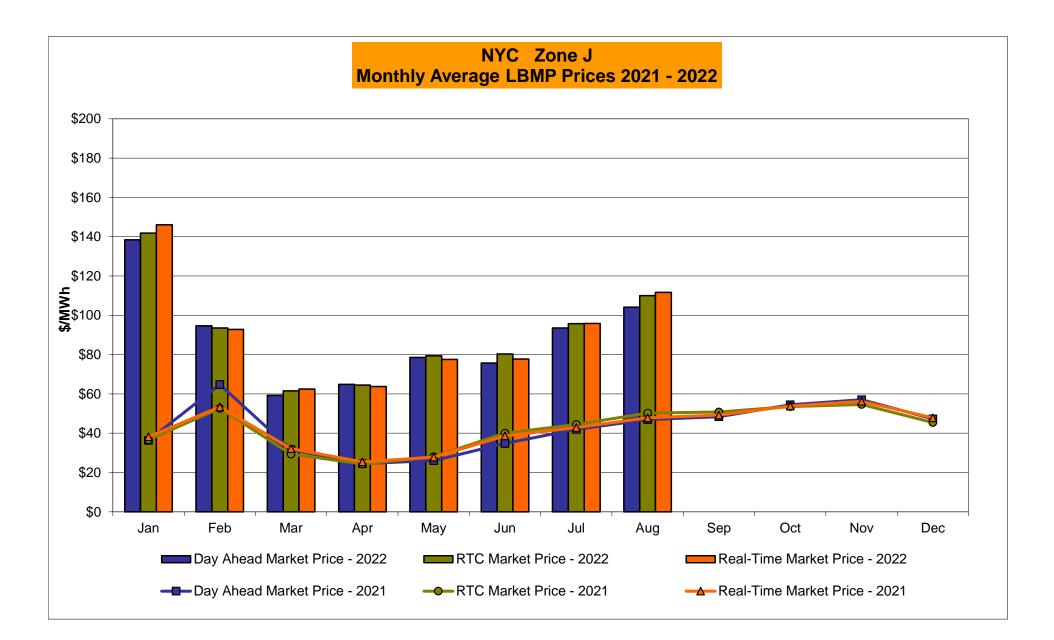
* Straight LBMP averages

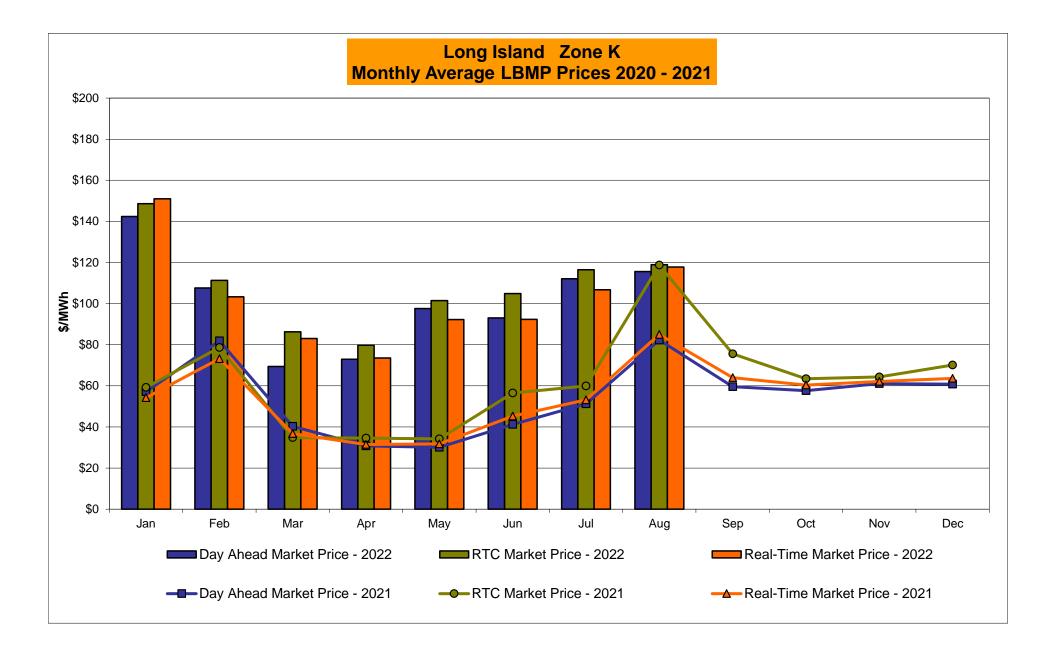


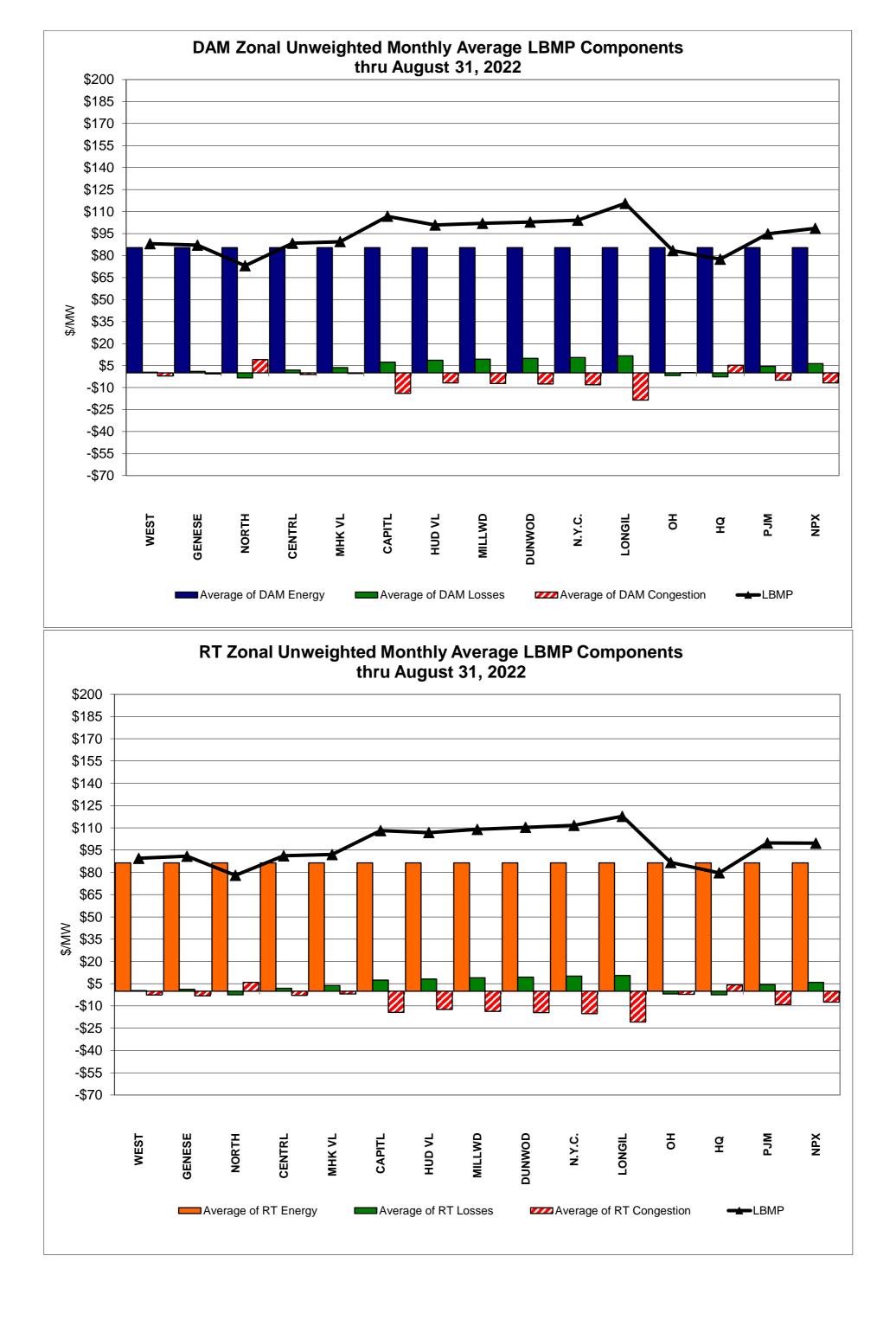




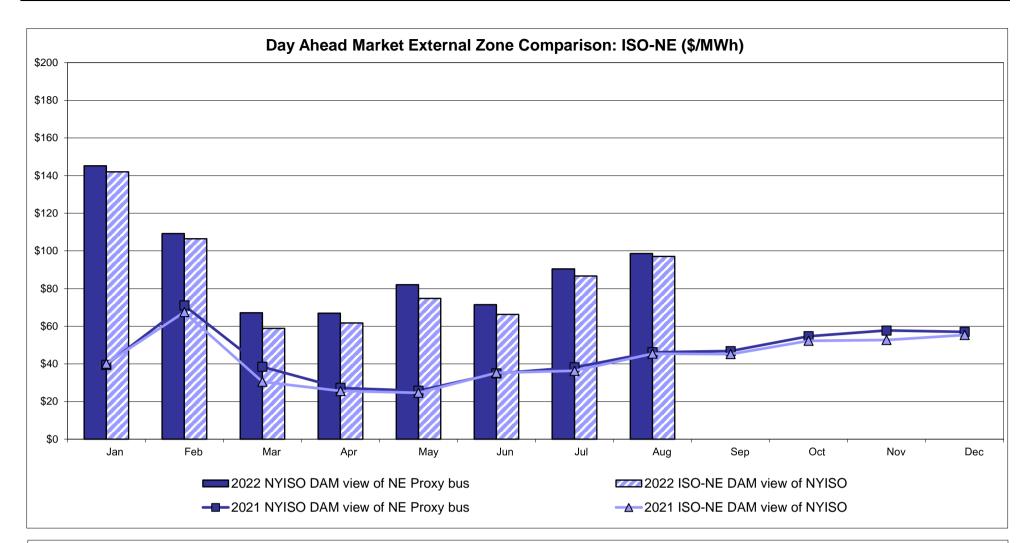


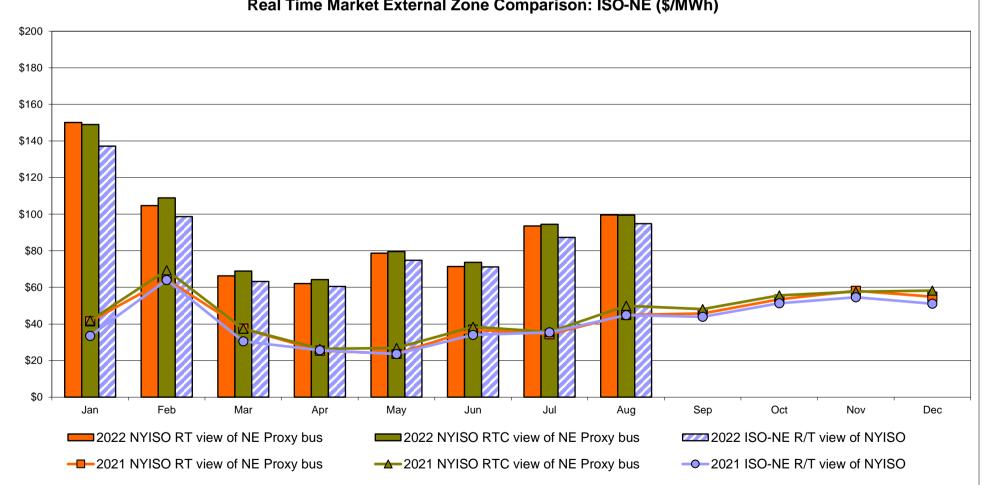






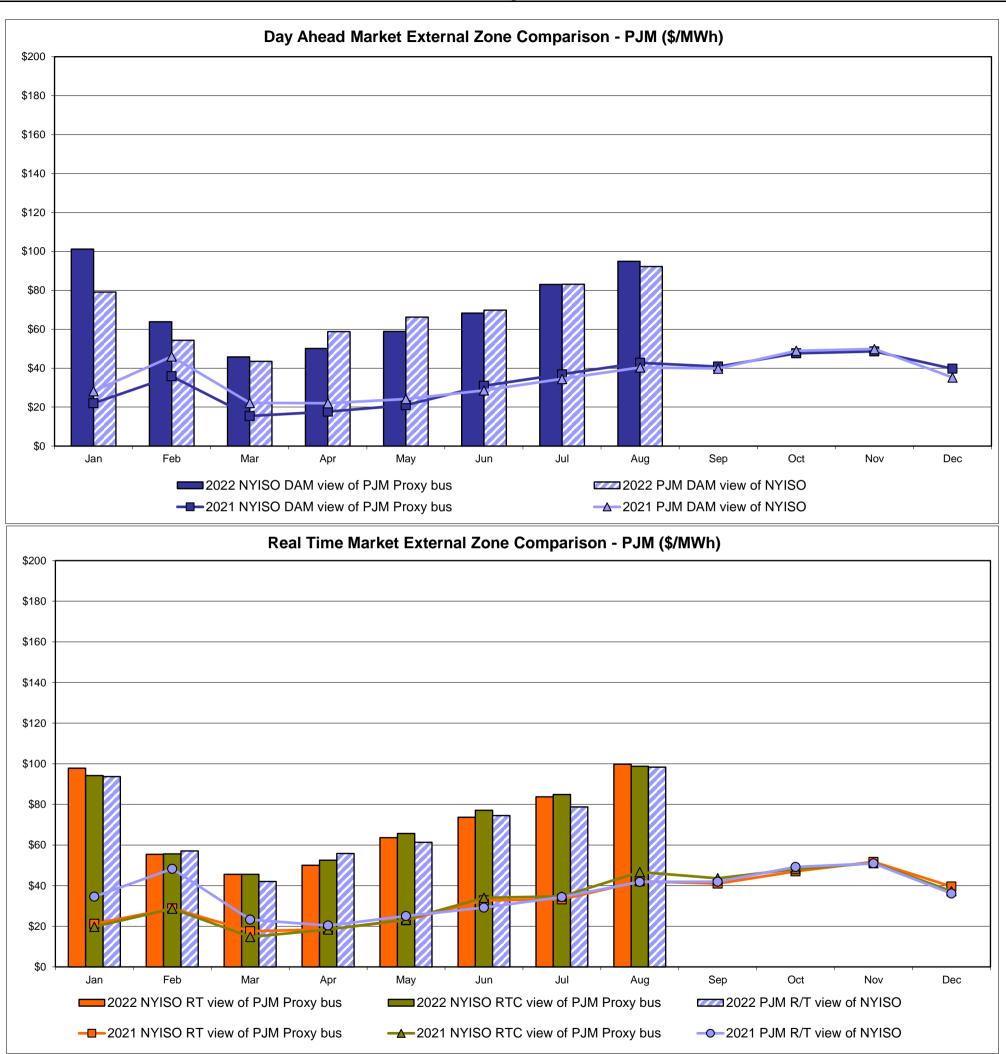
External Comparison ISO-New England





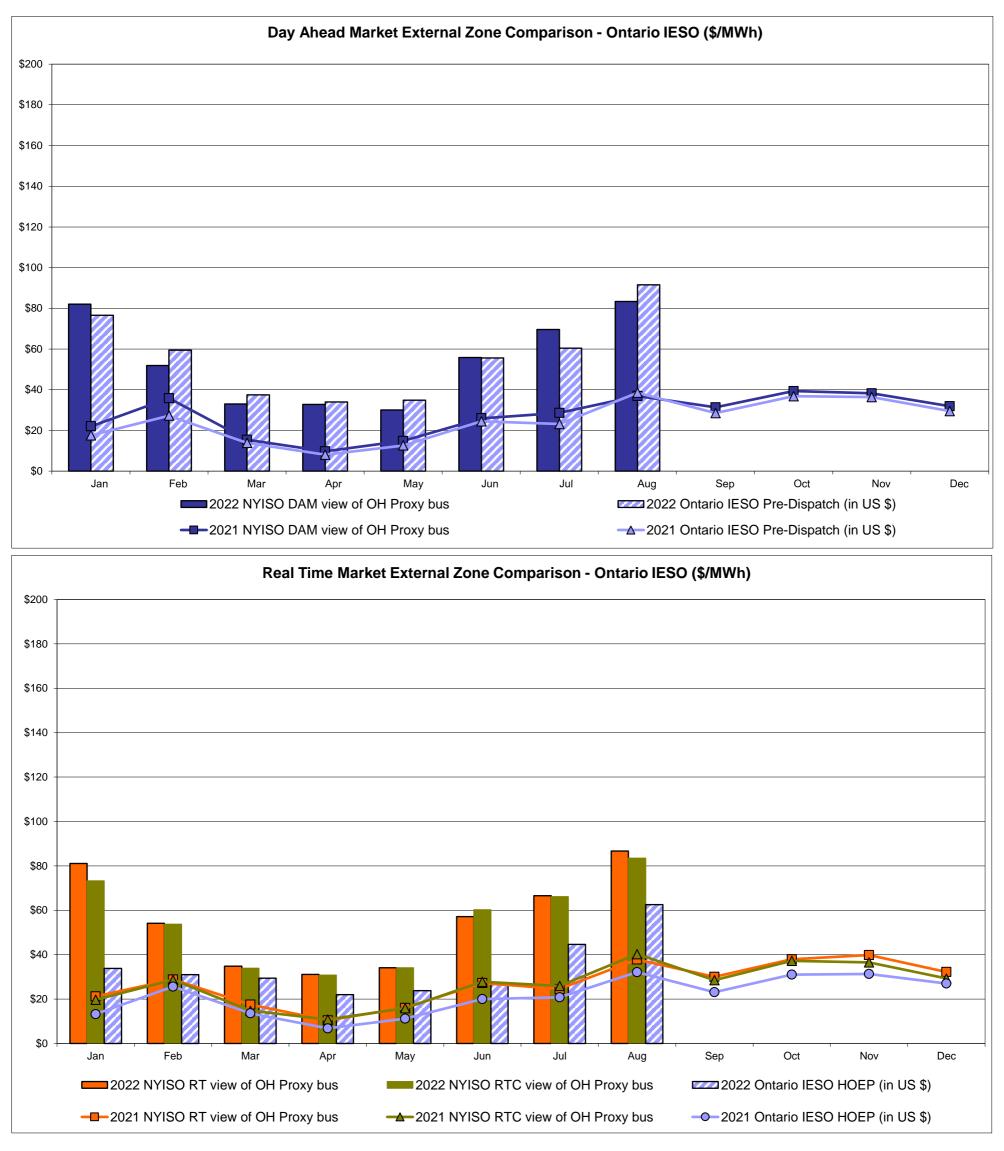
Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

Market Mitigation and Analysis Prepared: 9/9/2022 11:58 AM

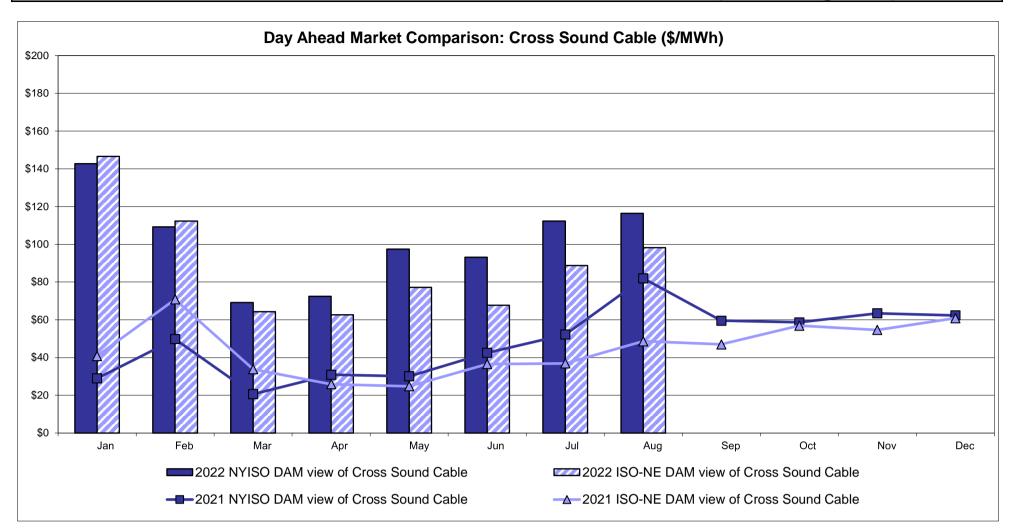


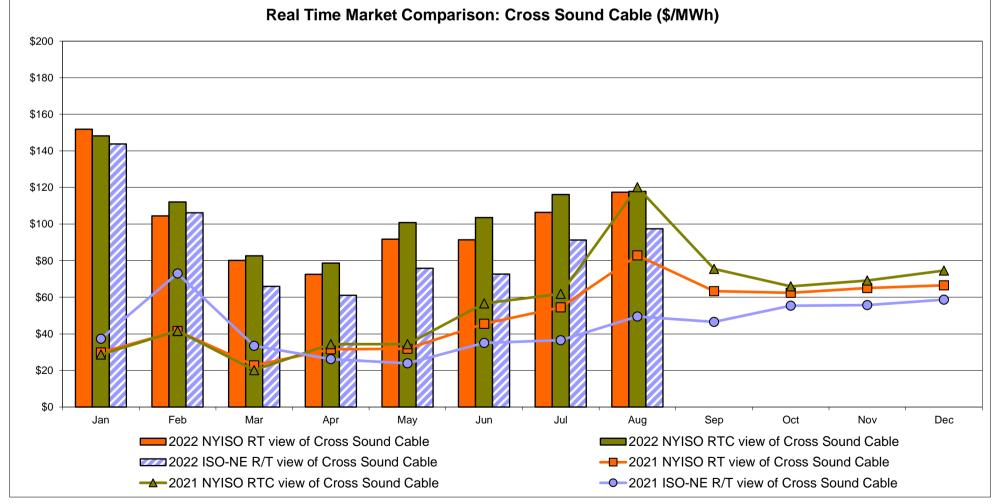
External Comparison PJM

External Comparison Ontario IESO



Notes: Exchange factor used for August 2022 was 0.77417356971433 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price





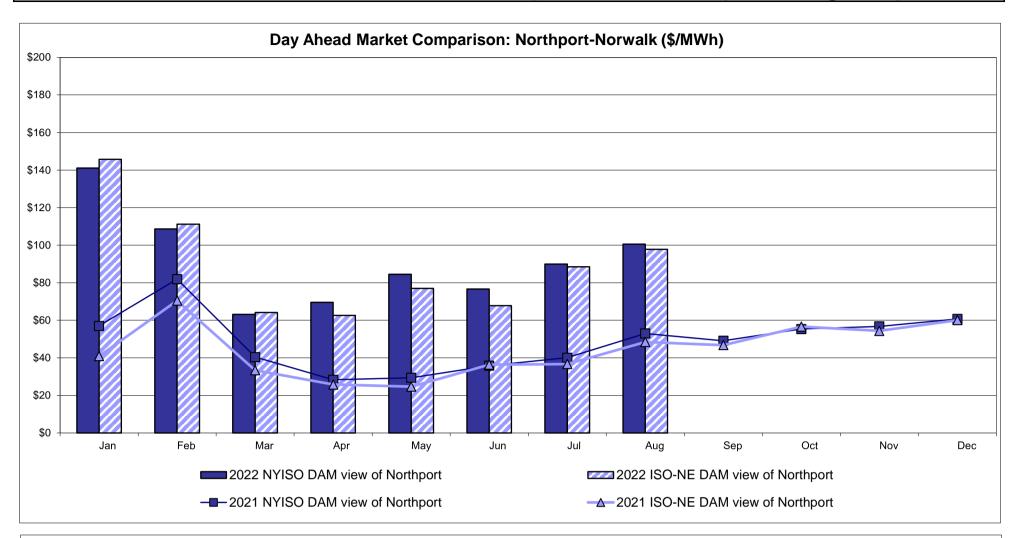
External Controllable Line: Cross Sound Cable (New England)

Note:

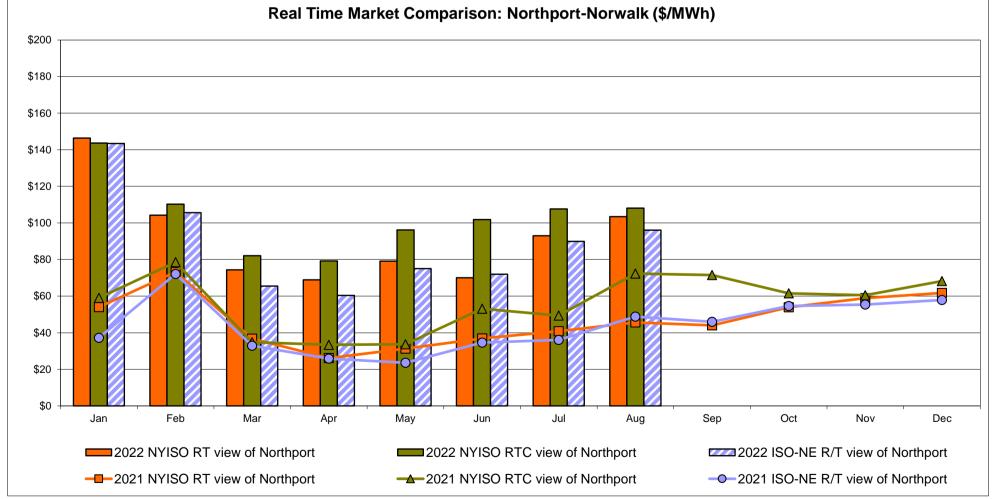
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)

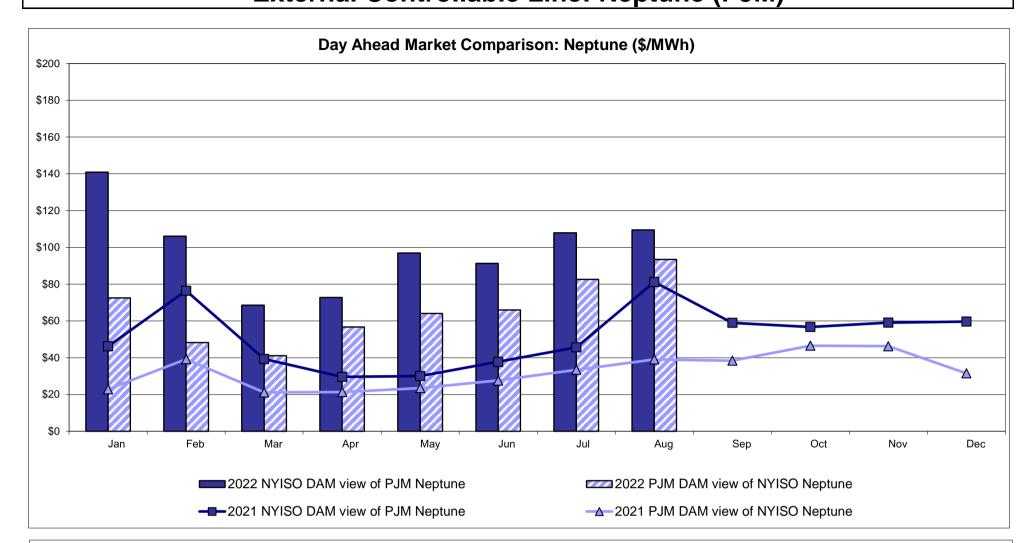


Note:

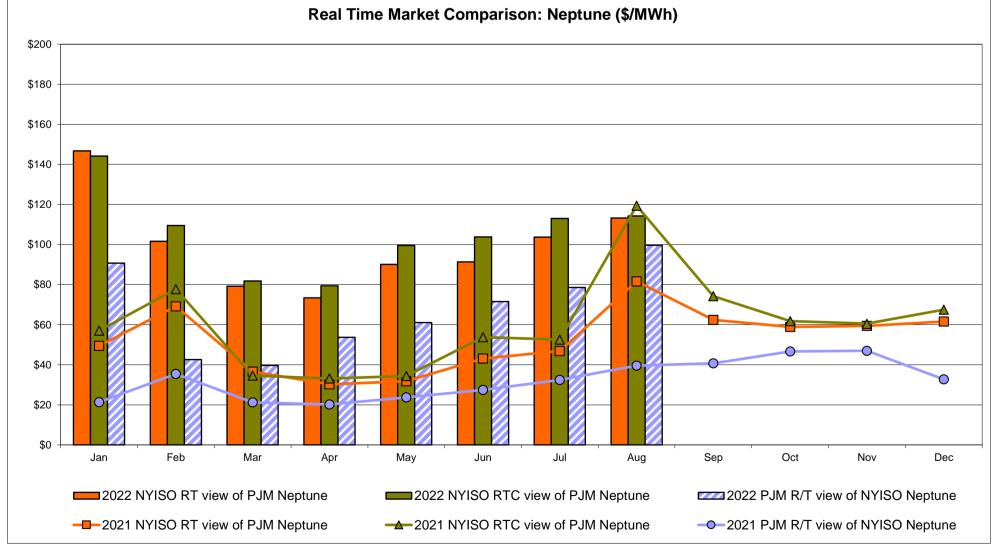
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

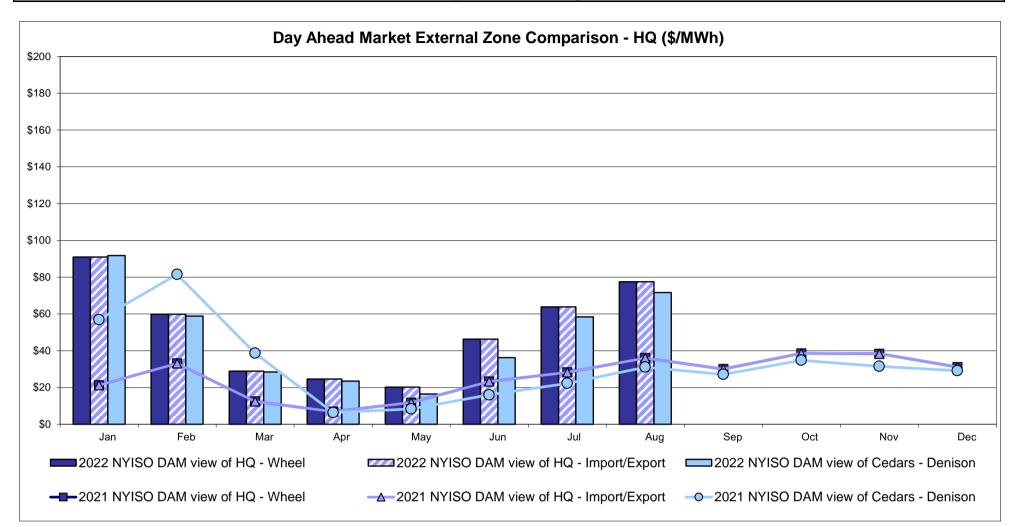
The DAM and R/T prices at the 1385 interface are used for NYISO.

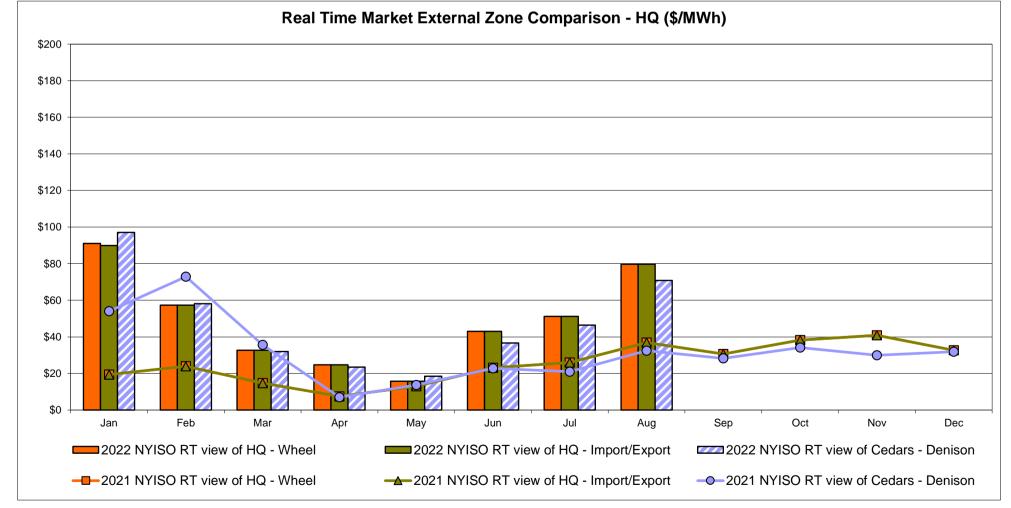


External Controllable Line: Neptune (PJM)



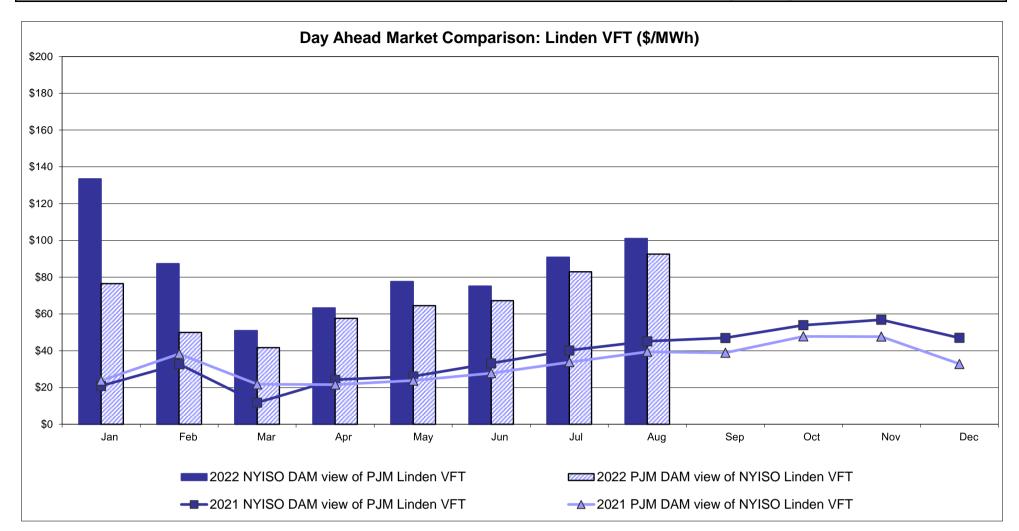
External Comparison Hydro-Quebec



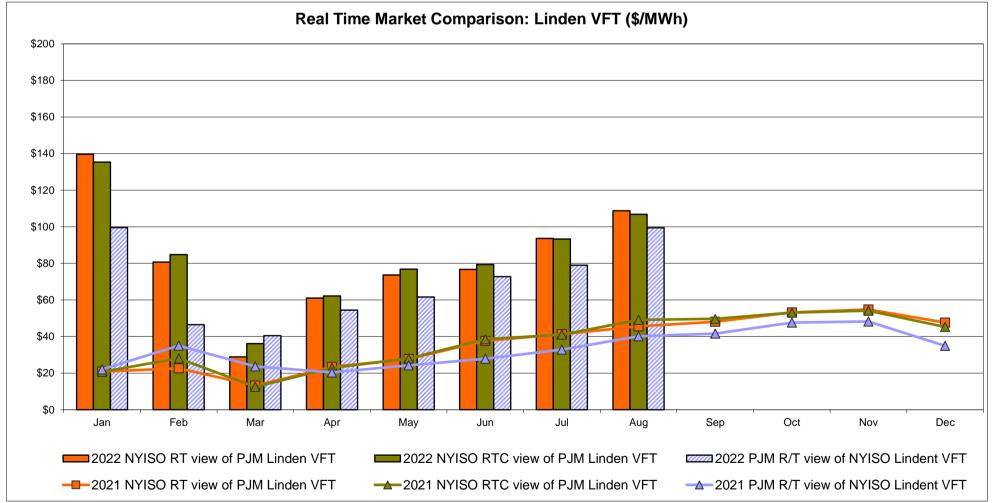


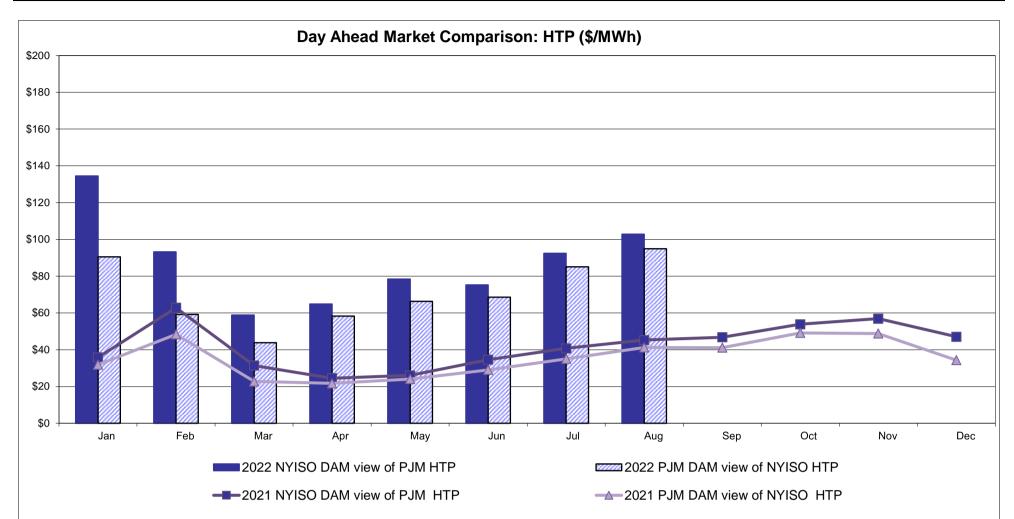
Note:

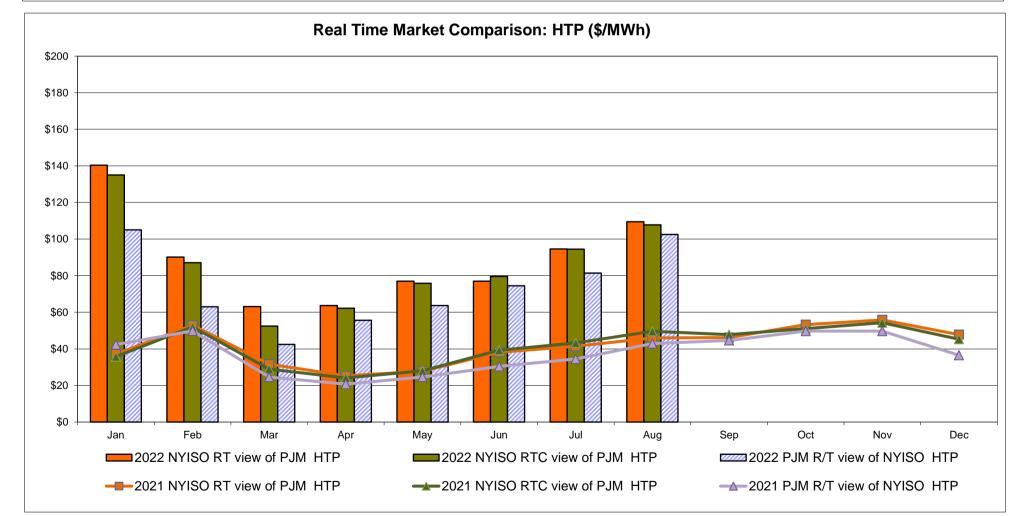
Hydro-Quebec Prices are unavailable.



External Controllable Line: Linden VFT (PJM)







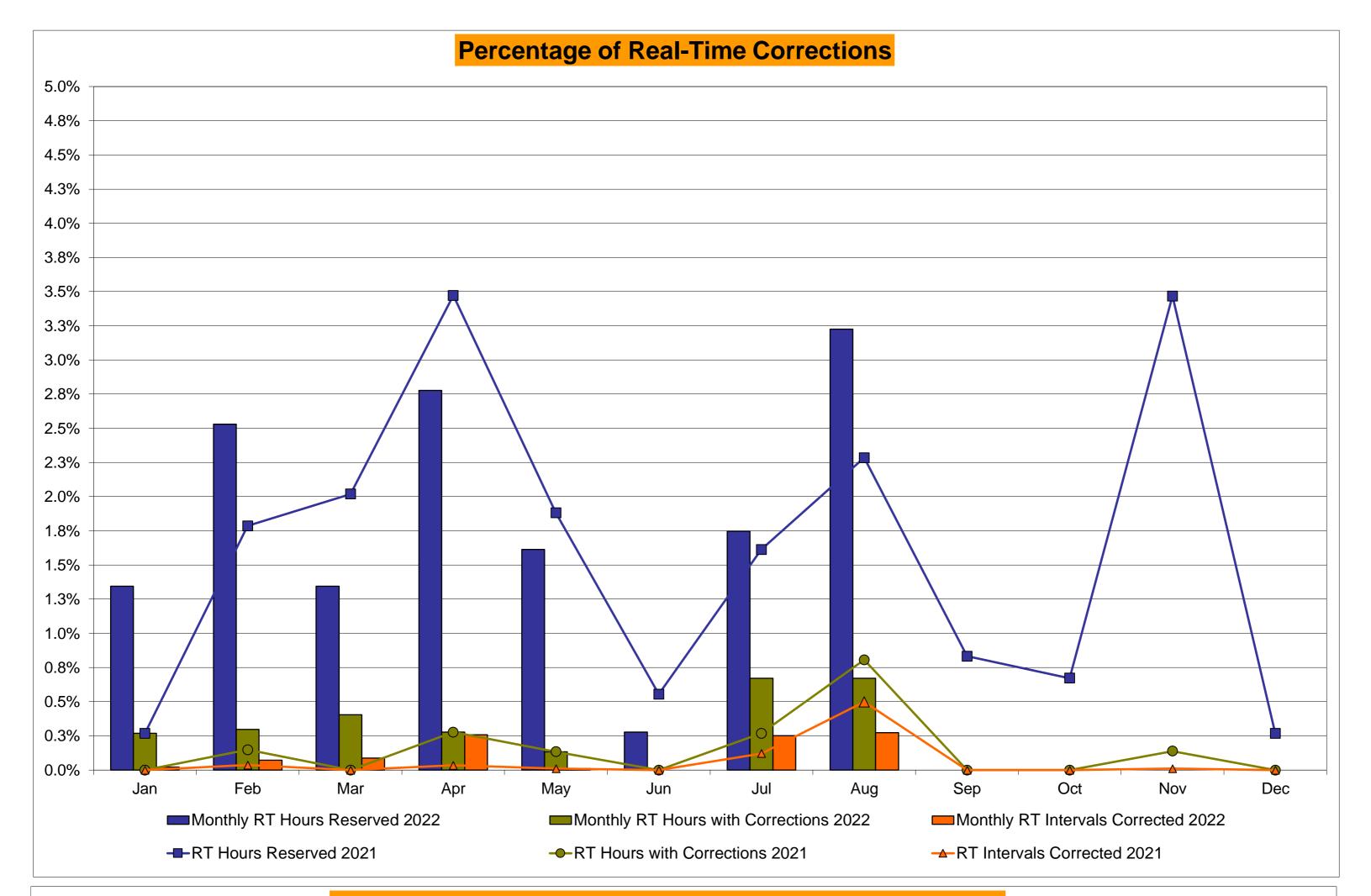
External Controllable Line: Hudson (PJM)

NYISO Real Time Price Correction Statistics

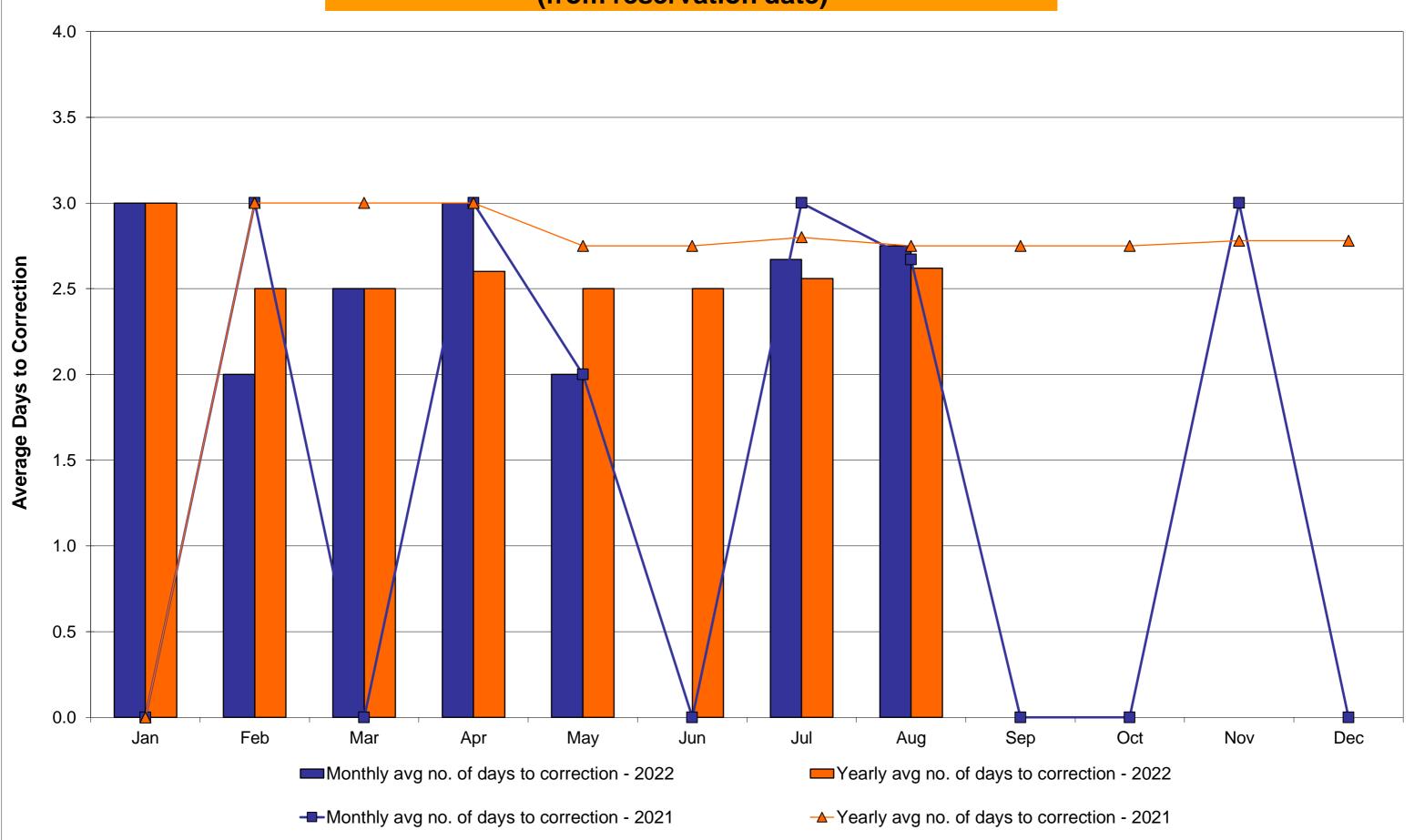
Hour Corrections in the month 2 2 3 2 1 0 5 5 Number of hours with corrections in the month 744 672 743 720 744 720 744 744 % of hours with corrections in the month 0.27% 0.30% 0.40% 0.28% 0.13% 0.00% 0.67% 0.67% % of hours with corrections year-to-date 0.27% 0.28% 0.31% 0.28% 0.23% 0.29% 0.34%	
Number of hours in the month 744 672 743 720 744 744 % of hours with corrections in the month 0.27% 0.30% 0.40% 0.28% 0.13% 0.00% 0.67% 0.67%	
% of hours with corrections in the month 0.27% 0.30% 0.40% 0.28% 0.13% 0.00% 0.67% 0.67%	
/0.0110013 With conditions year-to-trate 0.27/0 0.20/0 0.32/0 0.31/0 0.20/0 0.20/0 0.23/0 0.34/0	
Interval Corrections	
Number of intervals corrected in the month 2 6 8 23 1 0 23 25	
Number of intervals in the month 9,258 8,338 9,118 8,908 9,181 8,864 9,140 9,145	
% of intervals corrected in the month 0.02% 0.07% 0.09% 0.26% 0.01% 0.00% 0.25% 0.27%	
% of intervals corrected year-to-date 0.02% 0.05% 0.06% 0.11% 0.09% 0.07% 0.10% 0.12%	
Hours Reserved	
Number of hours reserved in the month 10 17 10 20 12 2 13 24	
Number of hours in the month 744 672 743 720 744 720 744 744	
% of hours reserved in the month 1.34% 2.53% 1.35% 2.78% 1.61% 0.28% 1.75% 3.23%	
% of hours reserved year-to-date 1.34% 1.91% 1.71% 1.98% 1.90% 1.63% 1.65% 1.85%	
Days to Correction *	
Avg. number of days to correction in the month 3.00 2.00 2.50 3.00 2.00 0.00 2.67 2.75	
Avg. number of days to correction year-to-date 3.00 2.50 2.50 2.60 2.50 2.50 2.50 2.50 2.62	
Days Without Corrections	
Days without corrections in the month 30 27 29 29 30 30 28 27	
Days without corrections year-to-date 30 57 86 115 145 175 203 230	
2021 January February March April May June July August September October November	December
Hour Corrections	
Number of hours with corrections in the month 0 1 0 2 1 0 2 6 0 0 1	0
	744
Number of hours in the month 744 672 743 720 744 744 720 744 720 744 721	177
Number of hours In the month 744 672 743 720 744 744 720 744 <td>0.00%</td>	0.00%
% of hours with corrections in the month 0.00% 0.15% 0.00% 0.28% 0.13% 0.00% 0.27% 0.81% 0.00% 0.00% 0.14%	0.00%
% of hours with corrections in the month 0.00% 0.15% 0.00% 0.28% 0.13% 0.00% 0.27% 0.81% 0.00% 0.14% % of hours with corrections year-to-date 0.00% 0.07% 0.05% 0.10% 0.11% 0.09% 0.12% 0.21% 0.18% 0.16% 0.16%	0.00%
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% of hours with corrections in the month 0.00% 0.15% 0.00% 0.28% 0.13% 0.00% 0.27% 0.81% 0.00% 0.00% 0.14% % of hours with corrections year-to-date 0.00% 0.07% 0.05% 0.10% 0.11% 0.09% 0.12% 0.21% 0.18% 0.16% 0.16% Interval Corrections Number of intervals corrected in the month 0 3 0 3 1 0 11 45 0 0 1 Number of intervals corrected in the month 0 3 0 3 1 0 11 45 0 0 1 Number of intervals corrected in the month 9,095 8,236 9,100 8,827 9,157 8,813 9,084 9,024 8,783 9,133 8,802 % of intervals corrected year-to-date 0.00% 0.02% 0.01% 0.02% 0.01% 0.03% 0.03% 0.09% 0.08% 0.07% 0.07% % of intervals corrected year-to-date 0.00% 0.02% 0.02% 0.0	0.00% 0.15% 0 9,063 0.00% 0.06% 2
% of hours with corrections in the month 0.00% 0.15% 0.00% 0.28% 0.13% 0.00% 0.27% 0.81% 0.00% 0.00% 0.14% % of hours with corrections year-to-date 0.00% 0.07% 0.05% 0.10% 0.11% 0.09% 0.12% 0.21% 0.18% 0.16% 0.16% 0.16% Interval Corrections Number of intervals corrected in the month 0 3 0 3 1 0 11 45 0 0 1 Number of intervals corrected in the month 9,095 8,236 9,100 8,827 9,157 8,813 9,084 9,024 8,783 9,133 8,802 % of intervals corrected year-to-date 0.00% 0.02% 0.01% 0.00% 0.12% 0.03% 0.01% 0.03% 0.09% 0.08% 0.07% 0.01% % of intervals corrected year-to-date 0.00% 0.02% 0.02% 0.01% 0.02% 0.01% 0.03% 0.09%	0.00% 0.15% 0 9,063 0.00% 0.06% 2 744
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% of hours with corrections in the month 0.00% 0.15% 0.00% 0.28% 0.13% 0.00% 0.27% 0.81% 0.00% 0.00% 0.14% % of hours with corrections year-to-date 0.00% 0.07% 0.05% 0.10% 0.11% 0.09% 0.12% 0.21% 0.18% 0.16% 0.16% Interval Corrections Number of intervals corrected in the month 0 3 0 3 1 0 11 45 0 0 1 Number of intervals corrected in the month 9,095 8,236 9,100 8,827 9,157 8,813 9,084 9,024 8,783 9,133 8,802 % of intervals corrected year-to-date 0.00% 0.02% 0.01% 0.02% 0.01% 0.03% 0.09% 0.08% 0.07% 0.07% % of intervals corrected year-to-date 0.00% 0.02% 0.02% 0.02% 0.01% 0.03% 0.09% 0.08% 0.07% 0.07%	0.00% 0.15% 0 9,063 0.00% 0.06% 2 744 0.27%
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% of hours with corrections in the month 0.00% 0.15% 0.00% 0.28% 0.13% 0.00% 0.27% 0.81% 0.00% 0.00% 0.14% % of hours with corrections year-to-date 0.00% 0.07% 0.05% 0.10% 0.11% 0.00% 0.12% 0.21% 0.18% 0.16% 0.16% Interval Corrections year-to-date 0.00% 0.37% 0.31% 0.00% 0.12% 0.21% 0.18% 0.16% 0.16% Number of intervals corrected in the month 0 3 0 3 1 0 11 45 0 0 1 Number of intervals corrected in the month 0.00% 0.04% 0.00% 0.03% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.01% 0.02% 0.02% </td <td>0.00% 0.15% 0 9,063 0.00% 0.06% 2 744 0.27% 1.59% 0.00</td>	0.00% 0.15% 0 9,063 0.00% 0.06% 2 744 0.27% 1.59% 0.00
% of hours with corrections in the month 0.00% 0.15% 0.00% 0.28% 0.13% 0.00% 0.27% 0.81% 0.00% 0.00% 0.14% % of hours with corrections year-to-date 0.00% 0.07% 0.05% 0.10% 0.11% 0.09% 0.12% 0.21% 0.18% 0.16% 0.16% Interval Corrections Number of intervals corrected in the month 0 3 0 3 1 0 11 45 0 0 1 Number of intervals corrected in the month 9,095 8,236 9,100 8,827 9,157 8,813 9,084 9,024 8,783 9,133 8,802 % of intervals corrected year-to-date 0.00% 0.02% 0.01% 0.00% 0.03% 0.01% 0.00% 0.12% 0.00% 0.03% 0.01% 0.00% 0.02% 0.01% 0.00% 0.02% 0.01% 0.00% 0.02% 0.01% 0.00% 0.02% 0.01% 0.02% 0.01%	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

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



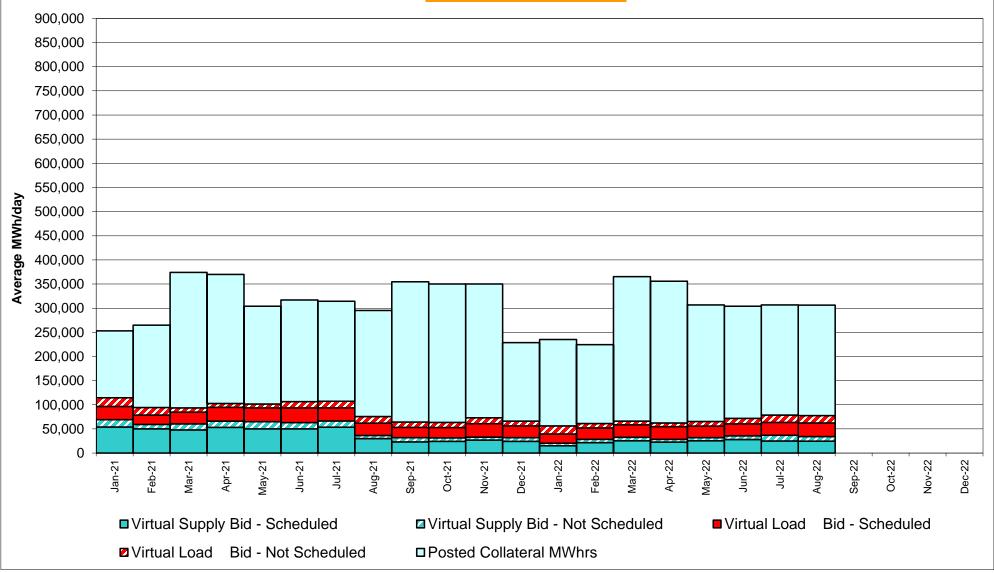
Annual average time period for making Price Corrections (from reservation date) *

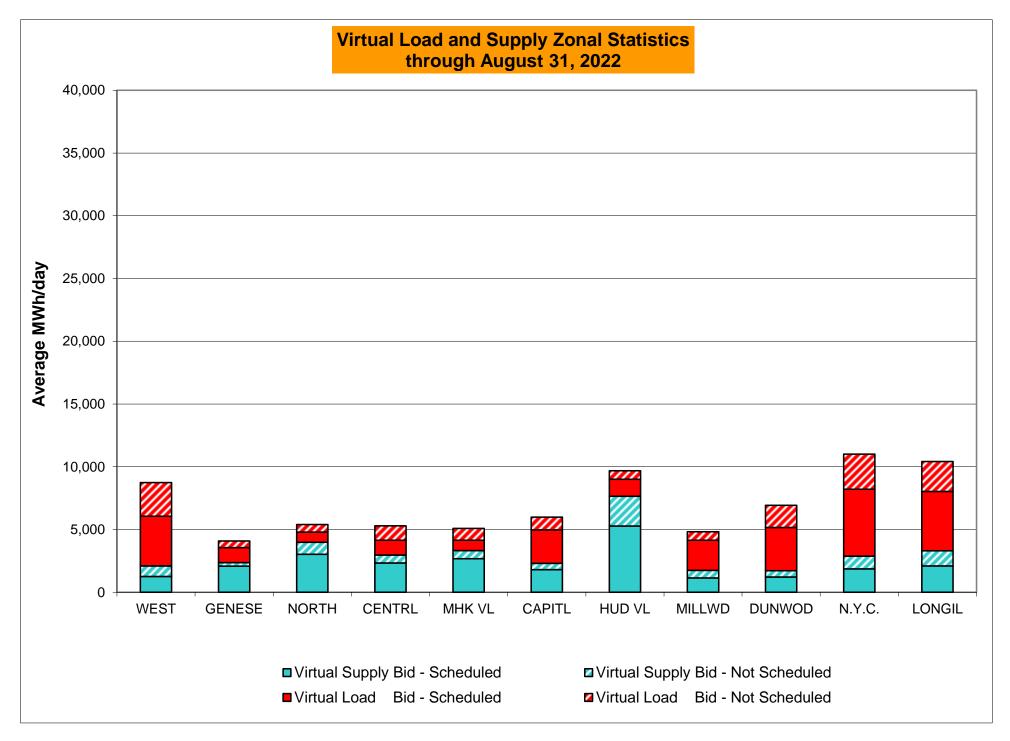


*Calendar days from reservation date; for June 2018 forward, business days from market date

Market Mitigation and Analysis Prepared: 9/9/2022 12:00 PM May/June 2017 Hours Reserved data has been updated for the July 2017 Monthly Market Operations Report.

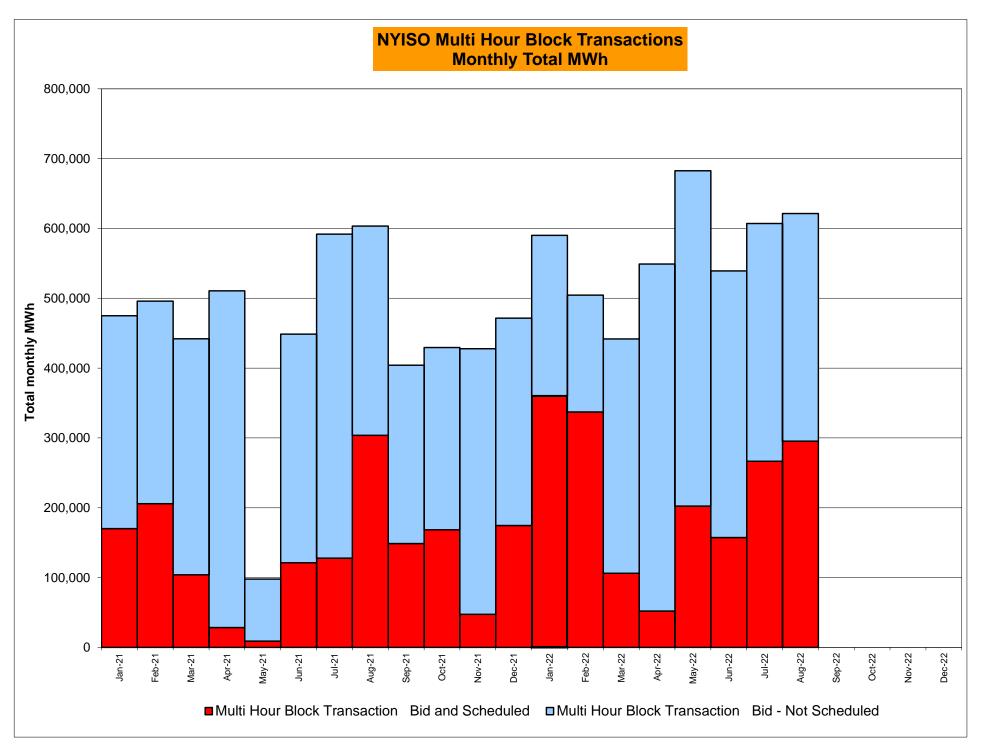
NYISO Virtual Trading Average MWh per day



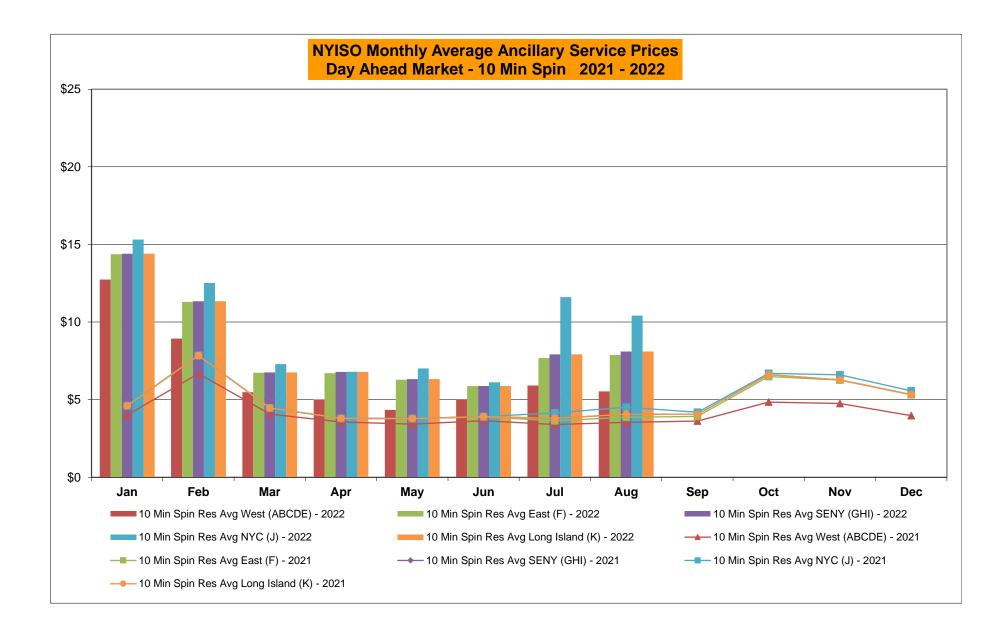


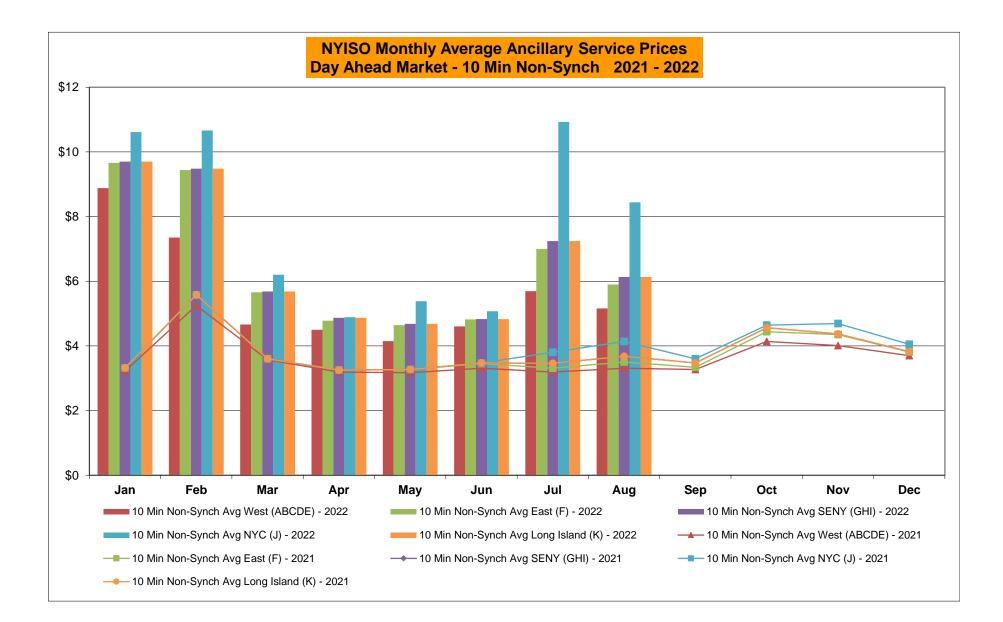
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2022

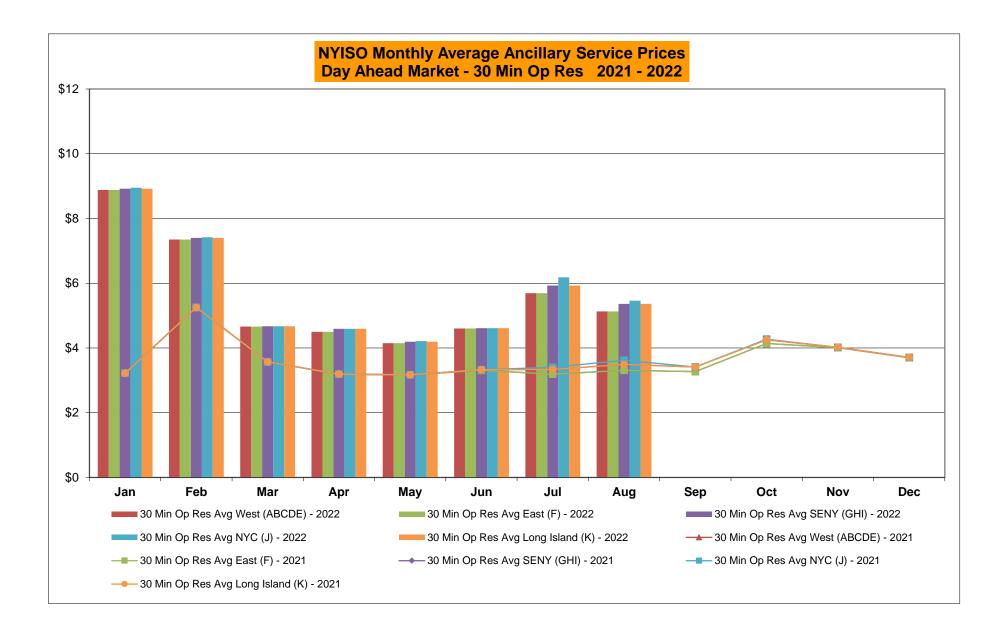
					Virtual I	Load and	Supp	oly Zonal	Statistic	s (Avera	ge MWh/	day) - 2022					
		Virtual L	oad Bid	Virtual Su	upply Bid			Virtual I	.oad Bid	Virtual Su	upply Bid			Virtual L	oad Bid	Virtual Su	
			Not		Not			, intual 2	Not		Not			, interaction	Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-22		1,900	2,076	1,276	MHK VL	Jan-22			1,245		DUNWOD	Jan-22	1,376	1,851	652	
	Feb-22	,	1,170	3,027	908		Feb-22	,		1,518			Feb-22	1,696	1,004	1,218	
	Mar-22	3,702		2,480	526		Mar-22			1,506			Mar-22	1,427	954	1,944	
	Apr-22	3,967	1,016	2,214	402		Apr-22			1,483			Apr-22	2,229	1,069	1,219	
	May-22	5,740	,	1,473	670		May-22			2,338			May-22	1,752	1,335	1,505	
	Jun-22	6,049	,	1,239	1,048		Jun-22		423	2,636			Jun-22		1,430	1,940	
	Jul-22	4,521	2,537	1,837	945		Jul-22		824 937	2,895			Jul-22	2,607	2,043	1,316	
	Aug-22	3,954	2,685	1,252	848		Aug-22		937	2,676	637		Aug-22 Sep-22	3,445	1,762	1,218	499
	Sep-22 Oct-22						Sep-22 Oct-22						Oct-22				
	Nov-22						Nov-22						Nov-22				
	Dec-22						Dec-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
	Feb-22	853	293	1,560	395		Feb-22	3,700	1,211	1,075	785		Feb-22	2,889	1,668	1,938	
	Mar-22	1,615	190	1,176	265		Mar-22	2,660	1,045	1,450	879		Mar-22	1,769	1,526	2,728	629
	Apr-22	1,226		1,415	354		Apr-22		610	2,274			Apr-22	1,341	1,172	2,530	
	May-22	994	302	2,104	636		May-22			2,609			May-22	2,215	1,517	2,425	
	Jun-22	728		2,426	453		Jun-22			2,784			Jun-22		1,786	2,501	613
	Jul-22	670		2,060	346		Jul-22		1,170	2,543			Jul-22	6,842	2,441	1,795	,
	Aug-22	1,195	526	2,080	281		Aug-22		1,016	1,795	503		Aug-22	5,333	2,800	1,856	1,023
	Sep-22						Sep-22						Sep-22				
	Oct-22						Oct-22						Oct-22				
	Nov-22 Dec-22						Nov-22 Dec-22						Nov-22 Dec-22				
	Dec-22						Dec-22						Dec-22				
NORTH	Jan-22	938	469	1,778	643	HUD VL	Jan-22			3,738		LONGIL	Jan-22	4,217	2,685	601	241
	Feb-22	1,019	231	1,899	887		Feb-22			5,143			Feb-22	4,110	1,658	1,021	355
	Mar-22	1,192		2,020	699		Mar-22						Mar-22		1,935	1,581	
	Apr-22			2,180	885		Apr-22						Apr-22	4,736	2,343	918	
	May-22	1,501	233	1,889	1,039		May-22			5,637			May-22		2,766	2,045	
	Jun-22		492	2,160	710 477		Jun-22			6,290			Jun-22 Jul-22	4,316	2,375	1,773	
	Jul-22			1,987 3,024	964		Jul-22			5,336 5,271				4,125 4,724	2,505 2,386	1,735 2,090	
	Aug-22 Sep-22		009	3,024	904		Aug-22 Sep-22		000	5,271	2,379		Aug-22 Sep-22		2,300	2,090	1,210
	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			867	262	NYISO	Jan-22		16,494	15,023	
	Feb-22		499	1,780	409		Feb-22	,		1,367	312		Feb-22	23,629	8,972	21,545	
	Mar-22		251	1,490	338		Mar-22			2,038			Mar-22	25,823	7,554	25,430	
	Apr-22		390	1,415	307		Apr-22			1,257			Apr-22	26,526	7,560	22,626	
	May-22 Jun-22	2,265 1,597	267 718	1,845 2,303	543 368		May-22 Jun-22		277 393	1,628 2,111			May-22 Jun-22	24,099 24,602	9,366 11,717	25,500 28,164	
	Jul-22			2,303	464		Jun-22 Jul-22			1,315			Jul-22	24,602	15,506	28,164 24,870	
	Aug-22			2,031	628		Aug-22			1,313			Aug-22	,	15,500	24,870	
	Sep-22		1,143	2,000	020		Sep-22		000	1,134			Sep-22	,	10,207	24,700	3,530
	Oct-22						Oct-22						Oct-22				
	Nov-22						Nov-22						Nov-22				
	Dec-22						Dec-22						Dec-22				

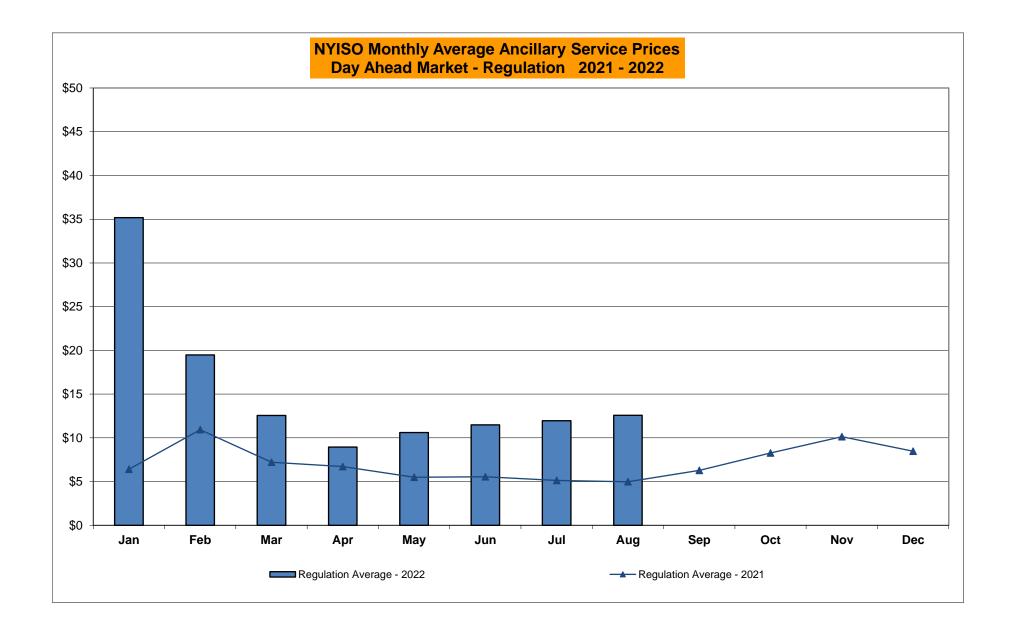


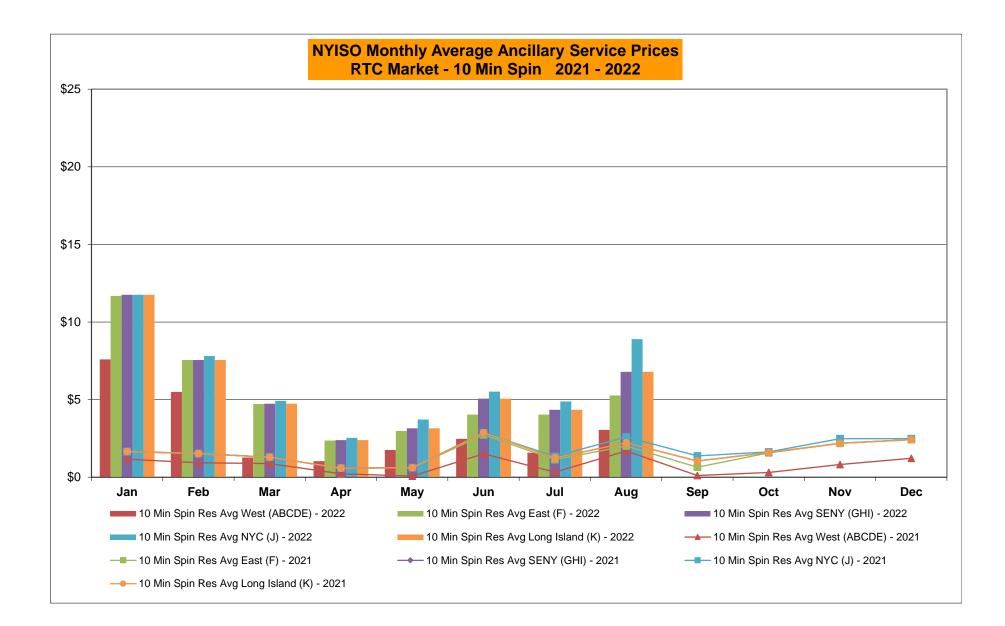
Market Mitigation and Analysis Prepared: 9/9/2022 11:56 AM

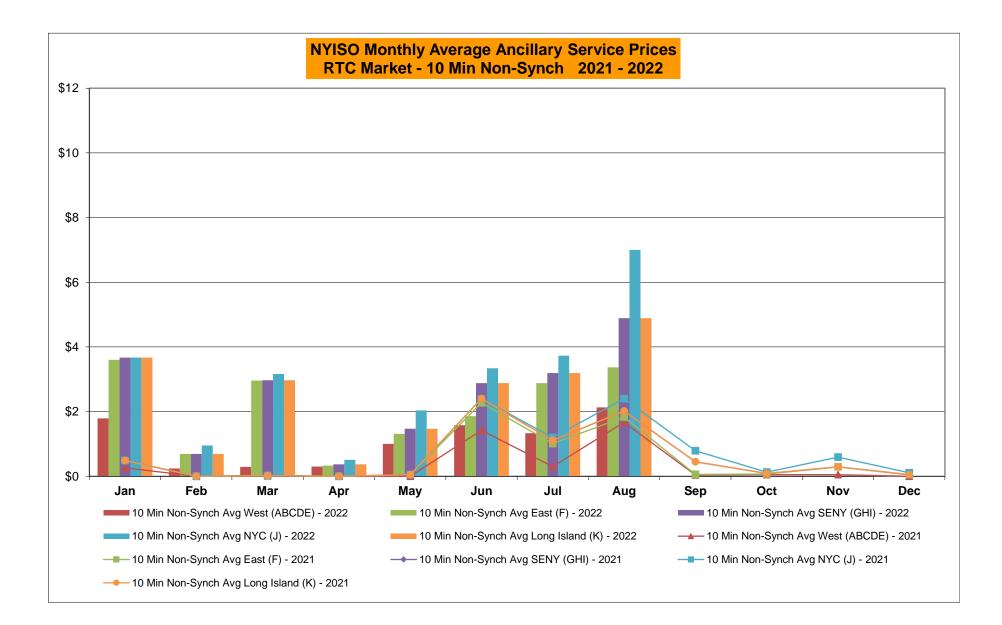


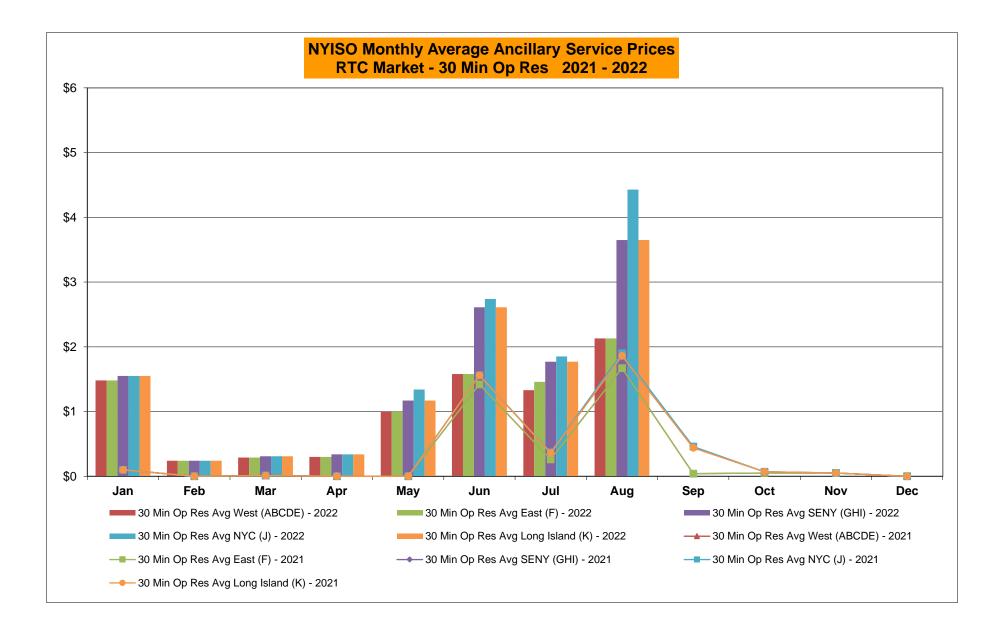


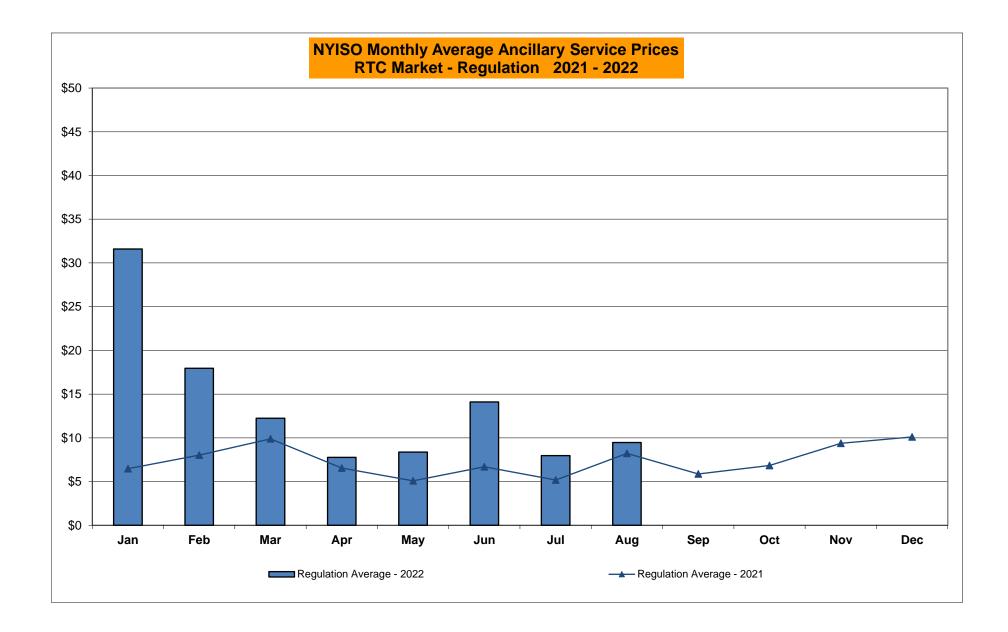


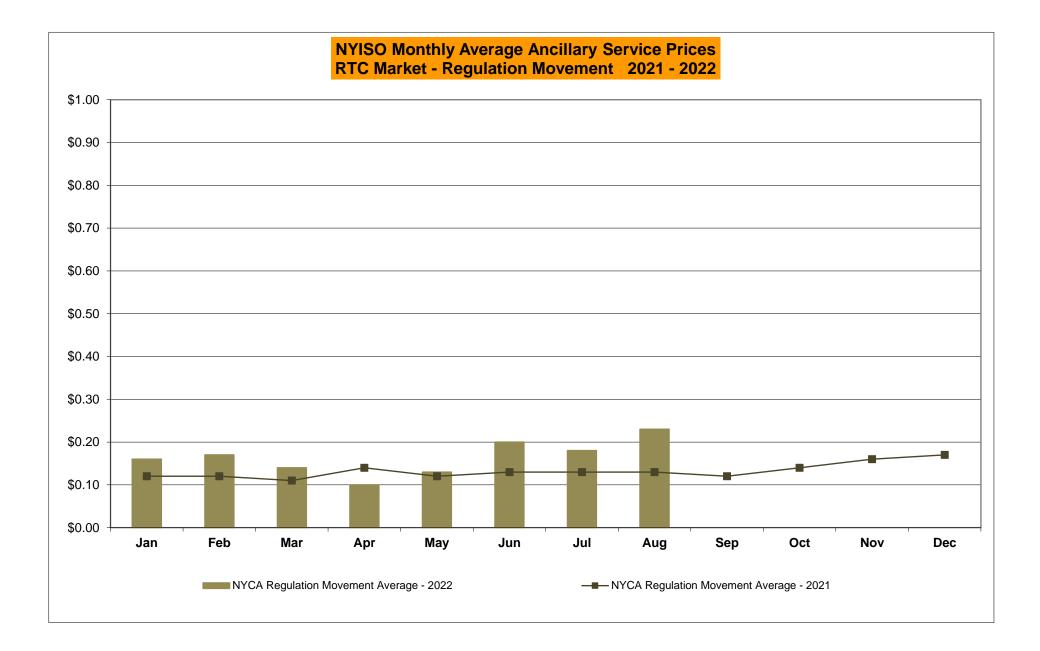


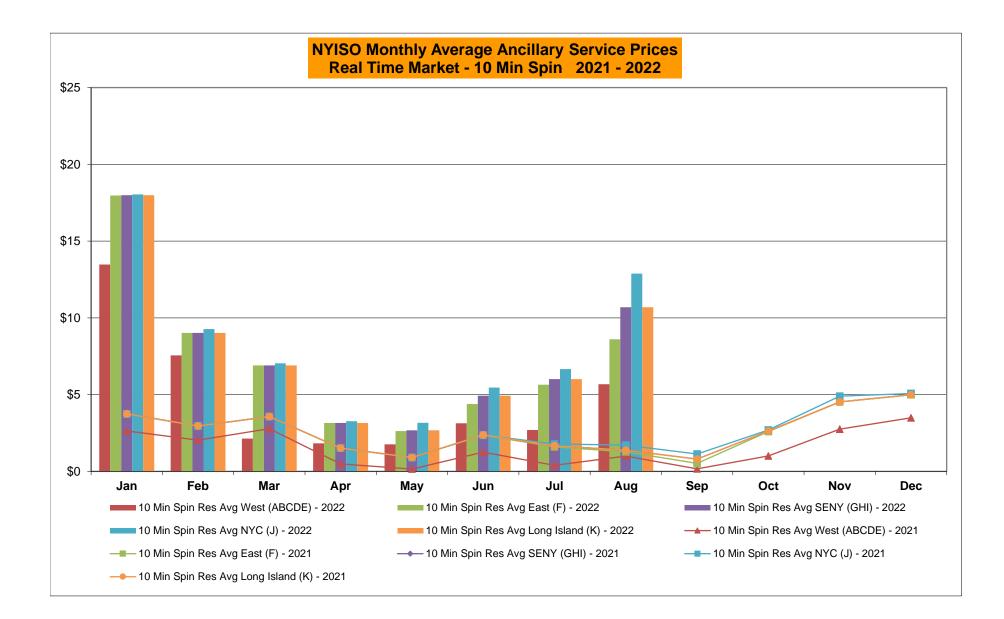


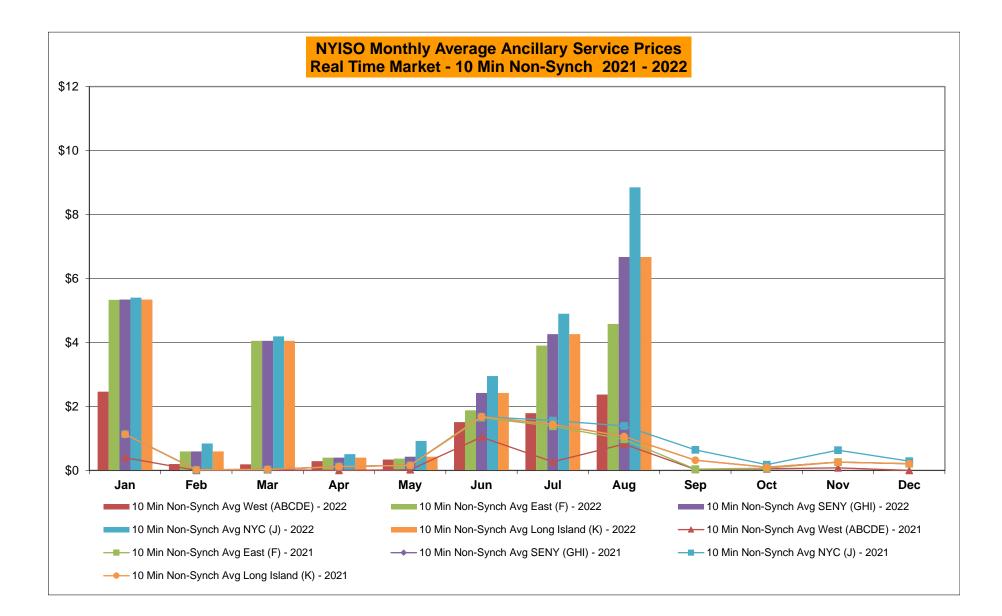


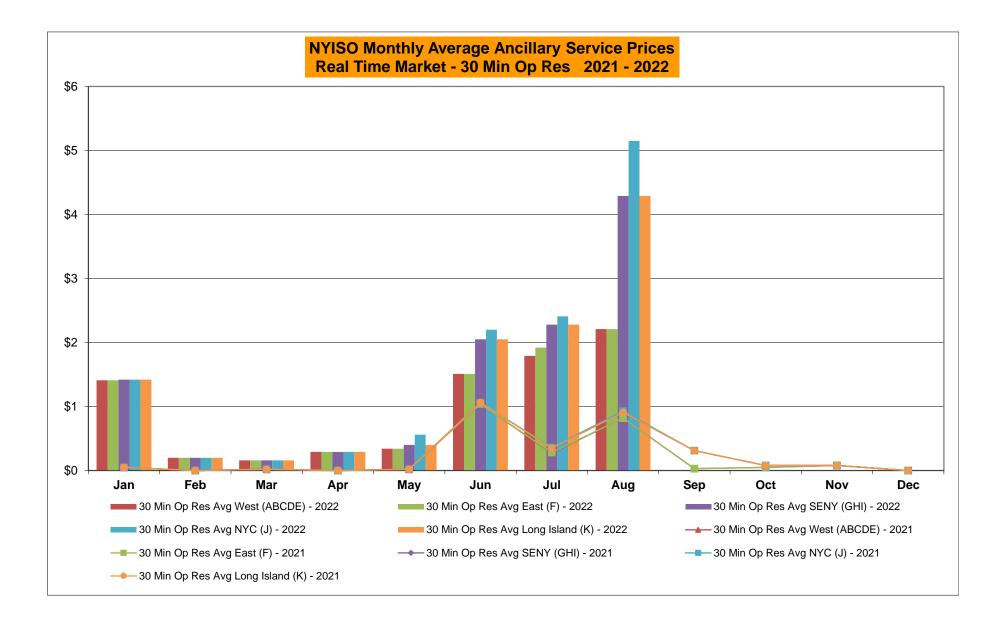


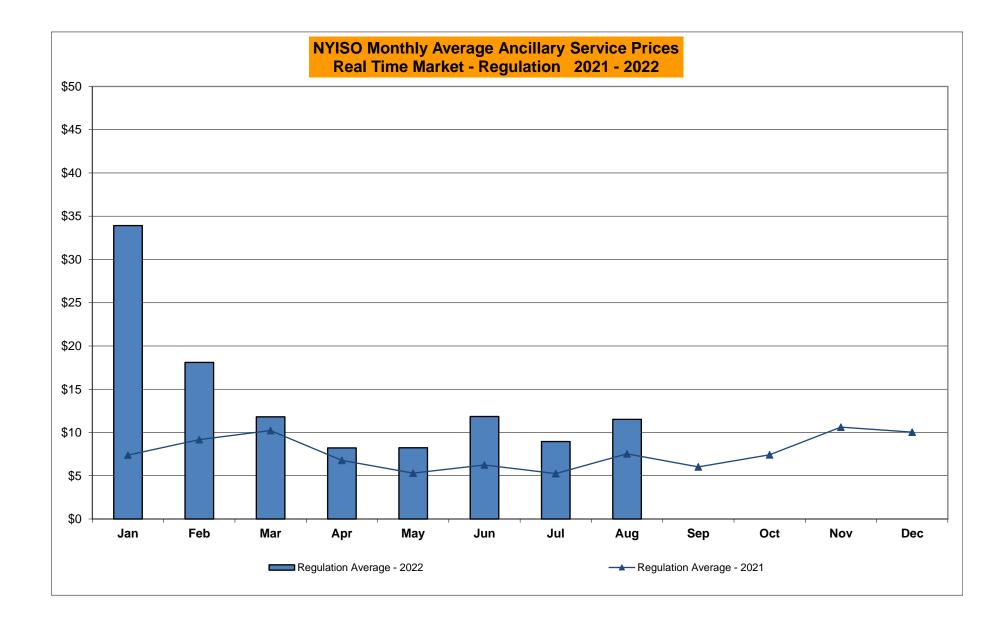


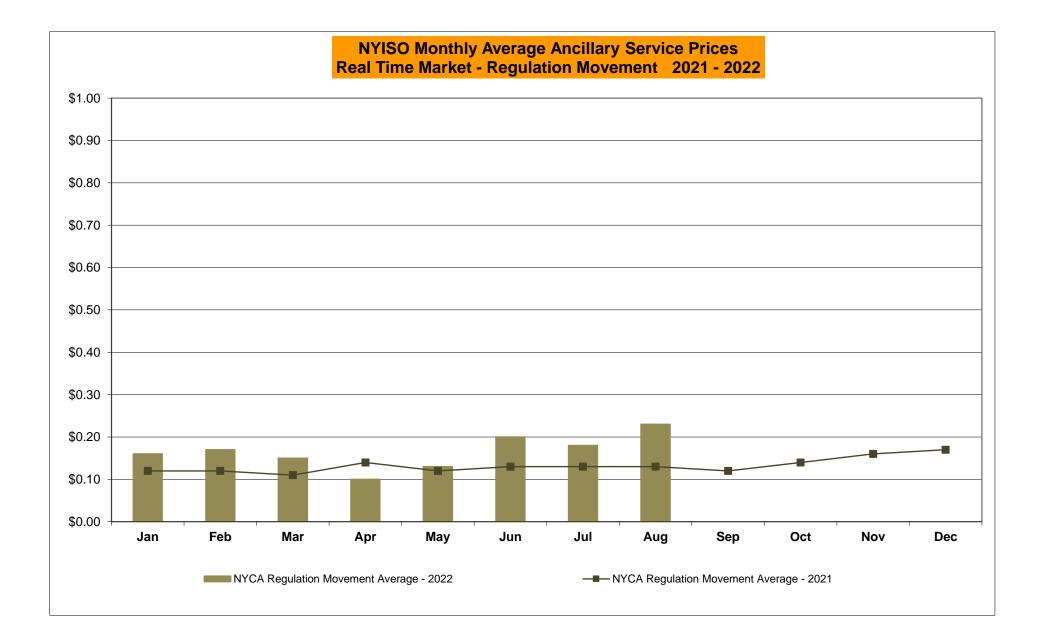












	<u>IN 1150 Mark</u>	ets Ancii	lary Serv	ices Sia		JIIWEIGI				71		
<u>2022</u>	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
Day Ahead Market	<u>j</u>	<u> </u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>			
10 Min Spin Long Island (K)	14.40	11.34	6.76	6.79	6.32	5.88	7.92	8.10				
10 Min Spin NYC (J)	15.32	12.52	7.29	6.80	7.01	6.12	11.61	10.41				
10 Min Spin SENY (GHI)	14.40	11.34	6.76	6.79	6.32	5.88	7.92	8.10				
10 Min Spin East (F)	14.37	11.30	6.74	6.70	6.28	5.87	7.68	7.88				
10 Min Spin West (ABCDE)	12.74	8.93	5.48	5.01	4.34	4.99	5.91	5.53				
10 Min Non Synch Long Island (K)	9.70	9.48	5.68	4.87	4.68	4.83	7.24	6.13				
10 Min Non Synch NYC (J)	10.61	10.66	6.20	4.89	5.38	5.07	10.93	8.44				
10 Min Non Synch SENY (GHI)	9.70	9.48	5.68	4.87	4.68	4.83	7.24	6.13				
10 Min Non Synch East (F)	9.66	9.44	5.66	4.78	4.64	4.82	7.00	5.90				
10 Min Non Synch West (ABCDE)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.16				
30 Min Long Island (K)	8.92	7.40	4.67	4.59	4.19	4.61	5.93	5.36				
30 Min NYC (J)	8.95	7.42	4.67	4.59	4.21	4.61	6.18	5.46				
30 Min SENY (GHI)	8.92	7.40	4.67	4.59	4.19	4.61	5.93	5.36				
30 Min East (F)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.13				
30 Min West (ABCDE)	8.88	7.35	4.66	4.50	4.15	4.60	5.69	5.13				
Regulation	35.17	19.48	12.56	8.94	10.61	11.49	11.96	12.58				
<u>2021</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Day Ahead Market	<u>oandary</u>	rebruary	<u>Indicit</u>	<u>Aprii</u>	<u>ividy</u>	<u>ounc</u>	<u>oury</u>	August			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)	4.68	8.01	4.46	3.81	3.80	4.38	4.14	4.51	4.19	6.69	6.60	5.56
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 Spin West (ABCDE)	4.01	6.68	4.07	3.56	3.43	3.64	3.40	3.54	3.62	4.84	4.75	3.97
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 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 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
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
	3.32	0.00	3.00	J.ZJ								
10 Min Non Synch West (ABCDE)	3.22		3.57	3.19	3.17		3.19			4.14	4.01	
10 Min Non Synch West (ABCDE) 30 Min Long Island (K)	3.22	5.25				3.31		3.31 3.49	3.27 3.41	4.14		3.70 3.71
			3.57	3.19	3.17		3.19	3.31	3.27		4.01	3.70
30 Min Long Island (K)	3.22 3.22	5.25 5.25	3.57 3.57	3.19 3.19	3.17 3.17	3.31 3.33	3.19 3.34	3.31 3.49	3.27 3.41	4.14 4.25	4.01 4.02	3.70 3.71
30 Min Long Island (K) 30 Min NYC (J)	3.22 3.22 3.23	5.25 5.25 5.25	3.57 3.57 3.57	3.19 3.19 3.19	3.17 3.17 3.18	3.31 3.33 3.53	3.19 3.34 3.40	3.31 3.49 3.62	3.27 3.41 3.41	4.14 4.25 4.27	4.01 4.02 4.02	3.70 3.71 3.71
30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI)	3.22 3.22 3.23 3.23	5.25 5.25 5.25 5.25 5.25	3.57 3.57 3.57 3.57	3.19 3.19 3.19 3.19	3.17 3.17 3.18 3.17	3.31 3.33 3.53 3.33	3.19 3.34 3.40 3.34	3.31 3.49 3.62 3.49	3.27 3.41 3.41 3.41	4.14 4.25 4.27 4.25	4.01 4.02 4.02 4.02	3.70 3.71 3.71 3.71
30 Min Long Island (K) 30 Min NYC (J) 30 Min SENY (GHI) 30 Min East (F)	3.22 3.22 3.23 3.22 3.22 3.22	5.25 5.25 5.25 5.25 5.25 5.25	3.57 3.57 3.57 3.57 3.57 3.57	3.19 3.19 3.19 3.19 3.19 3.19	3.17 3.17 3.18 3.17 3.17	3.31 3.33 3.53 3.33 3.33 3.31	3.19 3.34 3.40 3.34 3.19	3.31 3.49 3.62 3.49 3.31	3.27 3.41 3.41 3.41 3.27	4.14 4.25 4.27 4.25 4.14	4.01 4.02 4.02 4.02 4.01	3.70 3.71 3.71 3.71 3.71 3.70

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

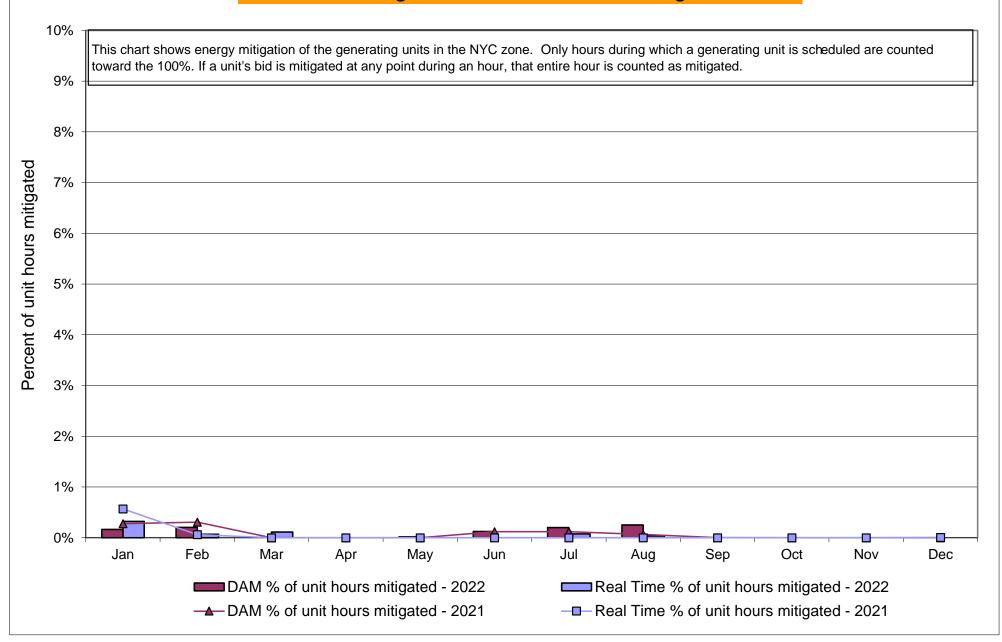
	NYISO Mark	ets Ancii	lary Serv	lces Sta	tistics -	Unweign	nted Pric	ce (\$/IVI)	<u>VH) - RTC</u>	<u>,</u>		
<u>2022</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
RTC Market	<u>•••••••</u>	<u> </u>	<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)	11.75	7.55	4.73	2.39	3.15	5.06	4.34	6.79				
10 Min Spin NYC (J)	11.75	7.81	4.92	2.53	3.72	5.51	4.88	8.90				
10 Min Spin SENY (GHI)	11.75	7.55	4.73	2.39	3.15	5.06	4.34	6.79				
10 Min Spin East (F)	11.68	7.55	4.71	2.36	2.98	4.03	4.03	5.27				
10 Min Spin West (ABCDE)	7.59	5.49	1.27	1.03	1.75	2.47	1.58	3.05				
10 Min Non Synch Long Island (K)	3.67	0.69	2.97	0.37	1.47	2.88	3.19	4.89				
10 Min Non Synch NYC (J)	3.67	0.95	3.16	0.51	2.04	3.34	3.73	7.00				
10 Min Non Synch SENY (GHI)	3.67	0.69	2.97	0.37	1.47	2.88	3.19	4.89				
10 Min Non Synch East (F)	3.60	0.69	2.96	0.33	1.31	1.86	2.88	3.37				
10 Min Non Synch West (ABCDE)	1.79	0.24	0.29	0.30	1.00	1.58	1.33	2.13				
30 Min Long Island (K)	1.55	0.24	0.31	0.34	1.17	2.61	1.77	3.65				
30 Min NYC (J)	1.55	0.24	0.31	0.34	1.34	2.74	1.85	4.43				
30 Min SENY (GHI)	1.55	0.24	0.31	0.34	1.17	2.61	1.77	3.65				
30 Min East (F)	1.48	0.24	0.29	0.30	1.00	1.58	1.46	2.13				
30 Min West (ABCDE)	1.48	0.24	0.29	0.30	1.00	1.58	1.33	2.13				
Regulation	31.59	17.95	12.23	7.77	8.36	14.11	7.96	9.46				
NYCA Regulation Movement	0.16	0.17	0.14	0.10	0.13	0.20	0.18	0.23				
<u>2021</u>	<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
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
10 Min Spin NYC (J)	1.65	1.53	1.29	0.58	0.91	4.26	1.34	2.59	1.37	1.63	2.48	2.48
10 Min Spin SENY (GHI)	1.65	1.53	1.29	0.58	0.61	2.86	1.25	2.21	1.04	1.59	2.18	2.42
10 Min Spin East (F)	1.65	1.53	1.29	0.58	0.61	2.73	1.14	2.01	0.64	1.57	2.18	2.42
10 Min Spin West (ABCDE)	1.16	0.93	0.88	0.22	0.07	1.51	0.32	1.69	0.11	0.30	0.82	1.22
10 Min Non Synch Long Island (K)	0.49	0.00	0.02	0.00	0.05	2.40	1.11	2.02	0.45	0.09	0.29	0.05
10 Min Non Synch NYC (J)	0.49	0.00	0.02	0.00	0.35	3.80	1.20	2.40	0.79	0.13	0.59	0.11
10 Min Non Synch SENY (GHI)	0.49	0.00	0.02	0.00	0.05	2.40	1.11	2.02	0.45	0.09	0.29	0.05
10 Min Non Synch East (F)	0.49	0.00	0.02	0.00	0.05	2.27	1.01	1.83	0.06	0.07	0.29	0.05
10 Min Non Synch West (ABCDE)	0.26	0.00	0.01	0.00	0.00	1.42	0.30	1.67	0.04	0.05	0.05	0.00
30 Min Long Island (K)	0.10	0.00	0.01	0.00	0.00	1.56	0.36	1.86	0.44	0.07	0.05	0.00
30 Min NYC (J)	0.10	0.00	0.01	0.00	0.12	2.34	0.37	1.90	0.46	0.07	0.05	0.00
								4.00	0.44	0.07		0.00
30 Min SENY (GHI)	0.10	0.00	0.01	0.00	0.00	1.56	0.36	1.86	0.44	0.07	0.05	0.00
30 Min SENY (GHI) 30 Min East (F)		0.00 0.00	0.01 0.01	0.00 0.00	0.00 0.00	1.56 1.42	0.36 0.26	1.86	0.44 0.04	0.07 0.05	0.05 0.05	0.00
	0.10											
30 Min East (F)	0.10 0.10	0.00	0.01	0.00	0.00	1.42	0.26	1.67	0.04	0.05	0.05	0.00

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

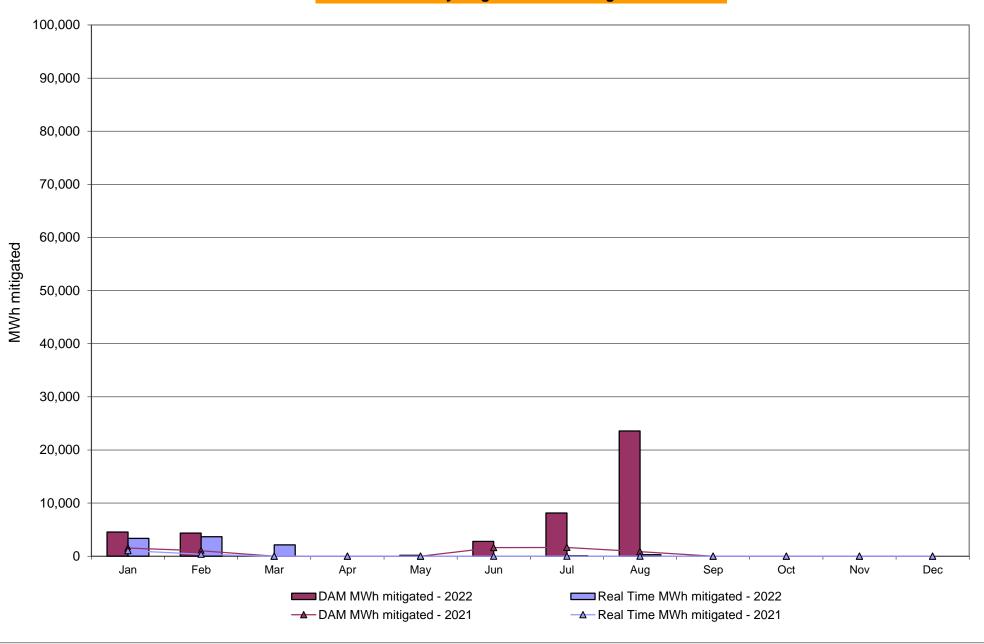
	NYISO Marl	<u>kets Anci</u>	<u>Ilary Ser</u>	<u>vices Sta</u>	<u>atistics -</u>	Unweig	<u>hted Pri</u>	<u>ce (\$/M</u>	<u>WH) - RT</u>			
<u>2022</u>	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Real Time Market	<u>j</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	2.68	4.93	6.01	10.69				
10 Min Spin NYC (J)	18.04	9.27	7.04	3.27	3.17	5.46	6.66	12.88				
10 Min Spin SENY (GHI)	17.99	9.02	6.90	3.15	2.68	4.93	6.01	10.69				
10 Min Spin East (F)	17.97	9.02	6.90	3.15	2.62	4.39	5.65	8.61				
10 Min Spin West (ABCDE)	13.47	7.56	2.14	1.83	1.76	3.13	2.70	5.68				
10 Min Non Synch Long Island (K)	5.34	0.59	4.05	0.40	0.43	2.42	4.26	6.67				
10 Min Non Synch NYC (J)	5.40	0.84	4.19	0.51	0.92	2.95	4.90	8.85				
10 Min Non Synch SENY (GHI)	5.34	0.59	4.05	0.40	0.43	2.42	4.26	6.67				
10 Min Non Synch East (F)	5.33	0.59	4.05	0.40	0.37	1.88	3.90	4.58				
10 Min Non Synch West (ABCDE)	2.46	0.20	0.19	0.29	0.34	1.51	1.79	2.37				
30 Min Long Island (K)	1.42	0.20	0.16	0.29	0.40	2.05	2.28	4.29				
30 Min NYC (J)	1.42	0.20	0.16	0.29	0.56	2.20	2.41	5.15				
30 Min SENY (GHI)	1.42	0.20	0.16	0.29	0.40	2.05	2.28	4.29				
30 Min East (F)	1.41	0.20	0.16	0.29	0.34	1.51	1.92	2.21				
30 Min West (ABCDE)	1.41	0.20	0.16	0.29	0.34	1.51	1.79	2.21				
Regulation	33.92	18.10	11.81	8.22	8.23	11.84	8.95	11.52				
NYCA Regulation Movement	0.16	0.17	0.15	0.10	0.13	0.20	0.18	0.23				
<u>2021</u>	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
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)	0.05	0.00	0.02	0.00	0.02	1.06	0.35	0.91	0.31	0.08	0.08	0.00
30 Min NYC (J)	0.05	0.00	0.02	0.00	0.12	1.84	0.36	0.93	0.31	0.08	0.08	0.00
30 Min SENY (GHI)	0.05	0.00	0.02	0.00	0.02	1.06	0.35	0.91	0.31	0.08	0.08	0.00
30 Min East (F)	0.05	0.00	0.02	0.00	0.02	1.04	0.28	0.82	0.03	0.05	0.08	0.00
30 Min West (ABCDE)	0.05	0.00	0.02	0.00	0.02	1.04	0.27	0.82	0.03	0.05	0.08	0.00
Regulation	7.39	9.17	10.23	6.78	5.31	6.24	5.25	7.54	6.03	7.43	10.62	10.05

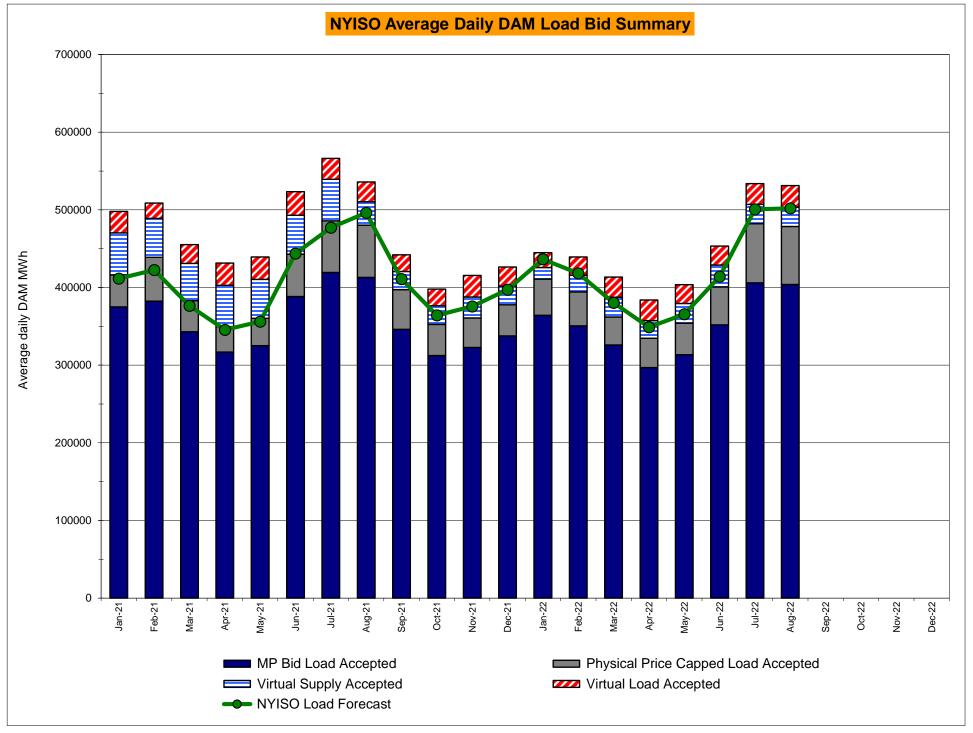
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

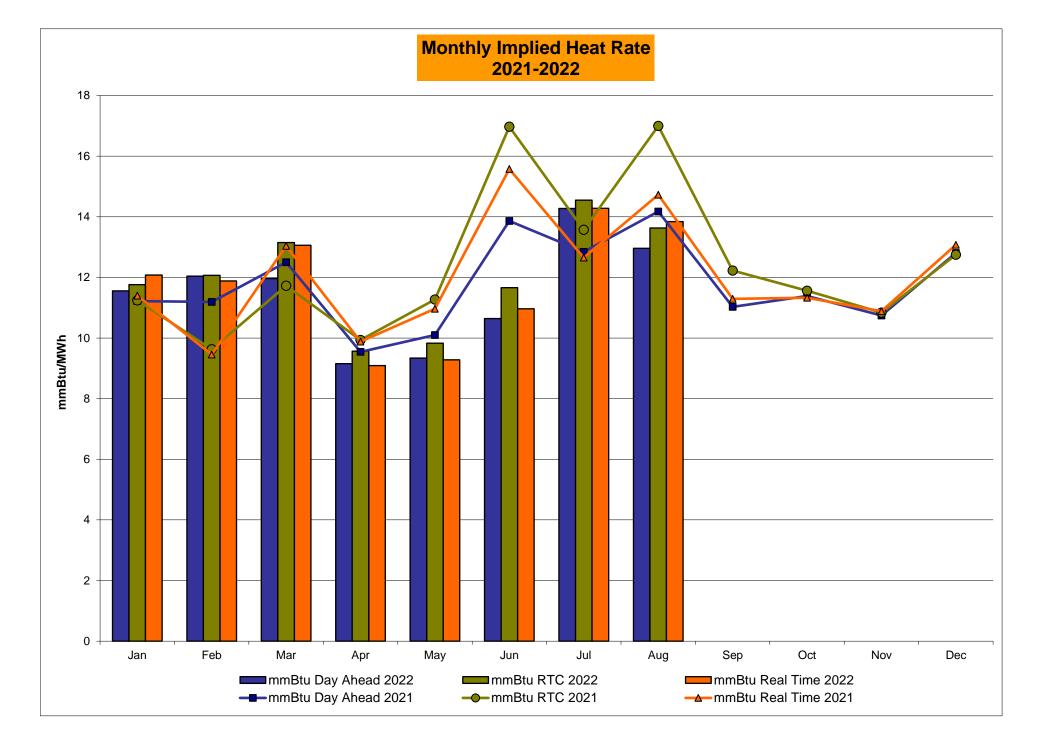
NYISO In City Energy Mitigation - AMP (NYC Zone) 2021 - 2022 Percentage of committed unit-hours mitigated



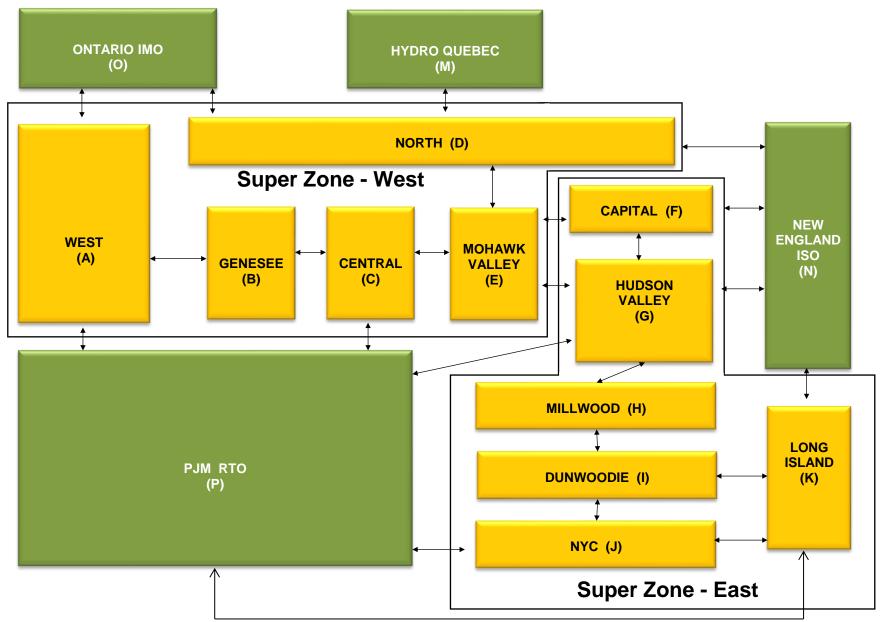
NYISO In City Energy Mitigation (NYC Zone) 2021 - 2022 Monthly megawatt hours mitigated







NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 9/9/2022 11:56 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

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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

