Market Operations Report

Rana Mukerji

SENIOR VICE PRESIDENT - MARKET STRUCTURES, NYISO

Business Issues Committee Meeting

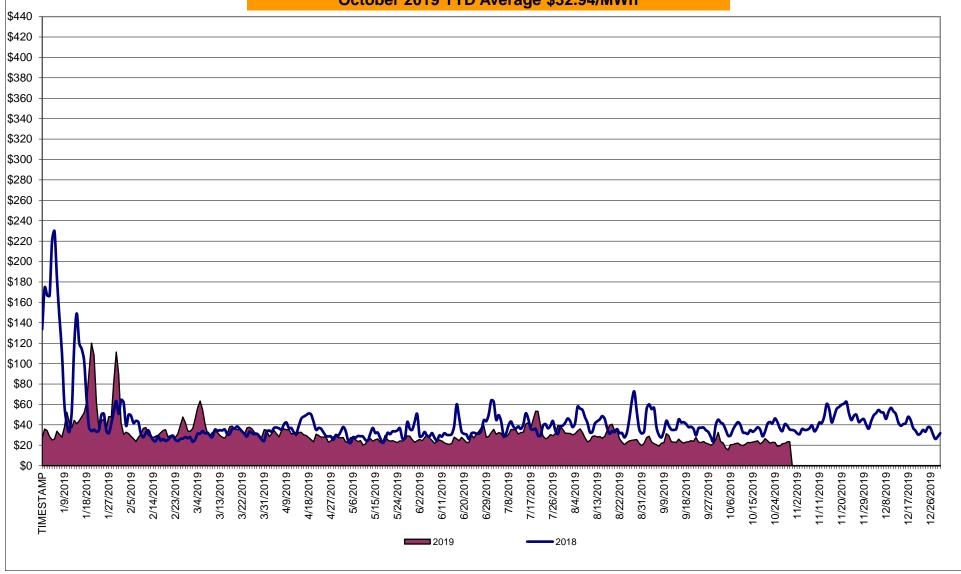
November 6, 2019 Rensselaer, NY



Market Performance Highlights October 2019

- LBMP for October is \$20.84/MWh; lower than \$22.22/MWh in September 2019 and \$35.85/MWh in October 2018.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to September.
- October 2019 average year-to-date monthly cost of \$32.94/MWh is a 26% decrease from \$45.03/MWh in October 2018.
- Average daily sendout is 377 GWh/day in October; lower than 419 GWh/day in September 2019 and 399 GWh/day in October 2018.
- Natural gas prices are lower and distillate prices are mixed compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$1.53/MMBtu, down from \$1.78/MMBtu in September.
 - Natural gas prices are down 47.5% year-over-year.
 - Jet Kerosene Gulf Coast was \$13.82/MMBtu, down from \$13.86/MMBtu in September.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$13.87/MMBtu, up from \$13.79/MMBtu in September.
 - Distillate prices are down 16.9% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.09)/MWh; higher than (\$0.13)/MWh in September.
 - Local Reliability Share is \$0.11/MWh, lower than \$0.17/MWh in September.
 - Statewide Share is (\$0.20)/MWh, higher than (\$0.30)/MWh in September.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than September.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)* 2018 Annual Average \$44.92/MWh October 2018 YTD Average \$45.03/MWh October 2019 YTD Average \$32.94/MWh

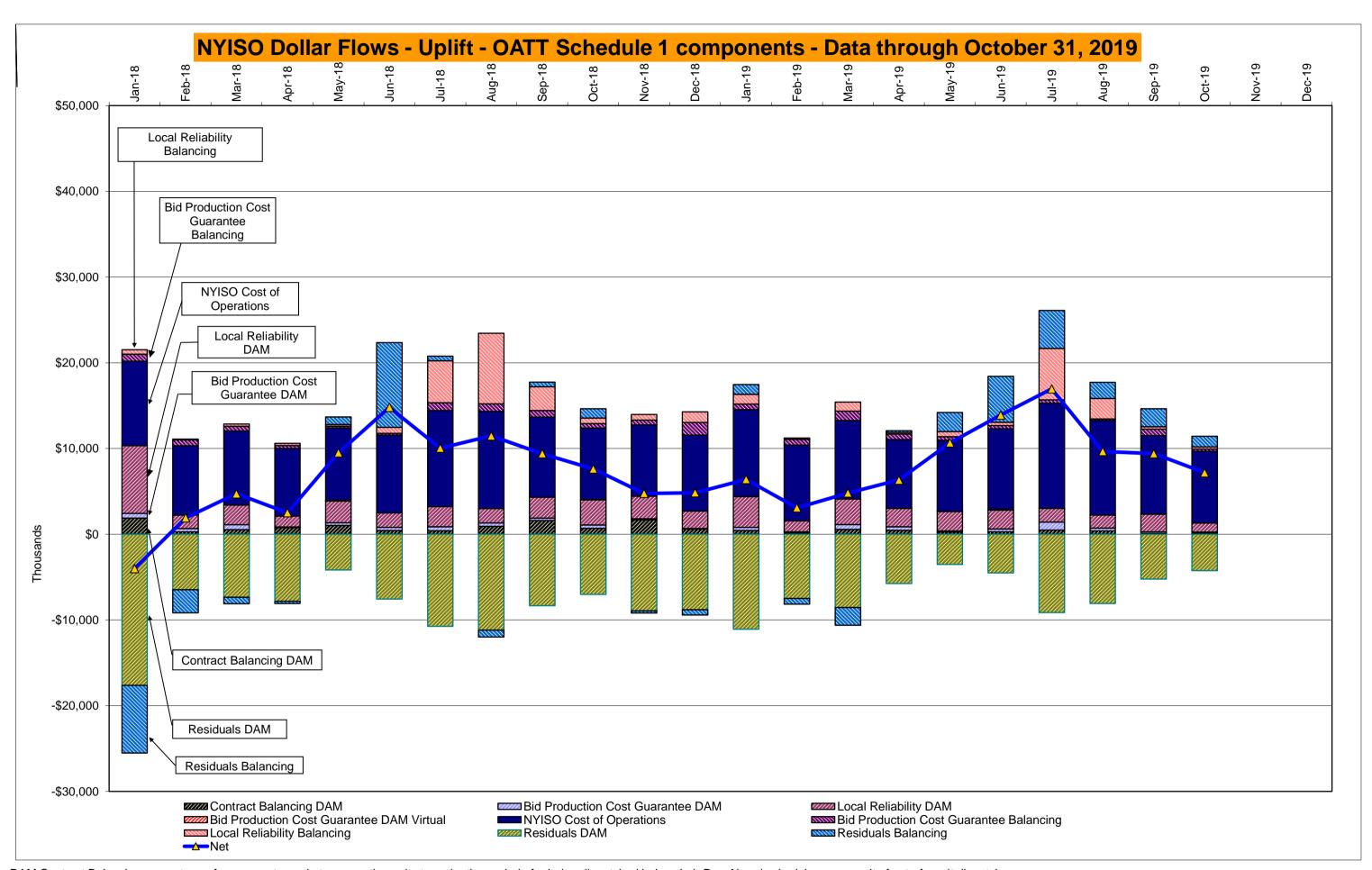


^{*} Excludes ICAP payments.

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

2019	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
LBMP	50.93	33.51	34.91	28.01	23.10	24.43	33.18	27.83	22.22	20.84		
NTAC	0.51	0.69	0.98	1.16	0.72	1.08	1.01	0.98	0.48	0.57		
Reserve	0.54	0.51	0.55	0.63	0.63	0.50	0.44	0.49	0.50	0.62		
Regulation	0.13	0.11	0.10	0.33	0.13	0.09	0.07	0.09	0.09	0.13		
NYISO Cost of Operations	0.68	0.68	0.69	0.69	0.68	0.69	0.70	0.70	0.69	0.67		
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.10	0.08	0.06	0.07	0.09	0.09		
Uplift	(0.25)	(0.44)	(0.33)	(0.15)	0.13	0.07	(0.06)	(0.20)	(0.13)	(0.09)		
Uplift: Local Reliability Share	0.32	0.11	0.31	0.20	0.23	0.19	0.44	0.25	0.17	0.11		
Uplift: Statewide Share	(0.57)	(0.55)	(0.64)	(0.35)	(0.11)	(0.12)	(0.50)	(0.45)	(0.30)	(0.20)		
Voltage Support and Black Start _	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37		
Avg Monthly Cost	52.99	35.51	37.38	31.16	25.88	27.32	35.78	30.33	24.32	23.21		
Avg YTD Cost	52.99	44.93	42.54	40.12	37.57	35.76	35.75	34.96	33.88	32.94		
TSA \$ per NYC MWh	0.00	0.00	0.01	0.01	0.19	0.77	1.00	0.33	0.43	0.00		
2018	January	February	March	April	May	June	July	August	September	October	November	December
2018 LBMP	<u>January</u> 99.55	February 33.83	<u>March</u> 29.91	<u>April</u> 35.00	<u>May</u> 28.78	<u>June</u> 32.53	<u>July</u> 39.58	August 42.56	September 38.70	October 35.85	November 43.15	December 40.31
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LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	40.31
LBMP NTAC Reserve	99.55 0.71	33.83 0.58	29.91 0.88	35.00 1.09	28.78 0.88	32.53 1.00	39.58 0.93	42.56 0.72	38.70 0.40	35.85 0.36	43.15 1.18	40.31 0.93
LBMP NTAC	99.55 0.71 0.92	33.83 0.58 0.65	29.91 0.88 0.64	35.00 1.09 0.81	28.78 0.88 0.68	32.53 1.00 0.57	39.58 0.93 0.49	42.56 0.72 0.51	38.70 0.40 0.52	35.85 0.36 0.80	43.15 1.18 0.66	40.31 0.93 0.54
LBMP NTAC Reserve Regulation	99.55 0.71 0.92 0.15	33.83 0.58 0.65 0.15	29.91 0.88 0.64 0.16	35.00 1.09 0.81 0.12	28.78 0.88 0.68 0.14	32.53 1.00 0.57 0.16	39.58 0.93 0.49 0.09	42.56 0.72 0.51 0.09	38.70 0.40 0.52 0.09	35.85 0.36 0.80 0.16	43.15 1.18 0.66 0.17	40.31 0.93 0.54 0.17
LBMP NTAC Reserve Regulation NYISO Cost of Operations	99.55 0.71 0.92 0.15 0.65	33.83 0.58 0.65 0.15 0.65	29.91 0.88 0.64 0.16 0.66	35.00 1.09 0.81 0.12 0.65	28.78 0.88 0.68 0.14 0.66	32.53 1.00 0.57 0.16 0.67	39.58 0.93 0.49 0.09 0.67	42.56 0.72 0.51 0.09 0.66	38.70 0.40 0.52 0.09 0.66	35.85 0.36 0.80 0.16 0.63	43.15 1.18 0.66 0.17 0.63	40.31 0.93 0.54 0.17 0.63
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery	99.55 0.71 0.92 0.15 0.65 0.08	33.83 0.58 0.65 0.15 0.65 0.10	29.91 0.88 0.64 0.16 0.66 0.09	35.00 1.09 0.81 0.12 0.65 0.10	28.78 0.88 0.68 0.14 0.66 0.09	32.53 1.00 0.57 0.16 0.67 0.09	39.58 0.93 0.49 0.09 0.67 0.06	42.56 0.72 0.51 0.09 0.66 0.06	38.70 0.40 0.52 0.09 0.66 0.08	35.85 0.36 0.80 0.16 0.63 0.09	43.15 1.18 0.66 0.17 0.63 0.09	40.31 0.93 0.54 0.17 0.63 0.08
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	99.55 0.71 0.92 0.15 0.65 0.08 (0.92)	33.83 0.58 0.65 0.15 0.65 0.10 (0.50)	29.91 0.88 0.64 0.16 0.66 0.09 (0.31)	35.00 1.09 0.81 0.12 0.65 0.10 (0.45)	28.78 0.88 0.68 0.14 0.66 0.09	32.53 1.00 0.57 0.16 0.67 0.09 0.30	39.58 0.93 0.49 0.09 0.67 0.06 (0.13)	42.56 0.72 0.51 0.09 0.66 0.06 (0.02)	38.70 0.40 0.52 0.09 0.66 0.08 (0.11)	35.85 0.36 0.80 0.16 0.63 0.09 (0.30)	43.15 1.18 0.66 0.17 0.63 0.09 (0.27)	40.31 0.93 0.54 0.17 0.63 0.08 (0.29)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59	33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14	29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19	35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12	28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22	32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18	39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44	42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59	38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37	35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27	43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25	40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59 (1.52)	33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14 (0.64)	29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19 (0.51)	35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57)	28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22 (0.17)	32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18 0.12	39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44 (0.57)	42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59 (0.61)	38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37 (0.48)	35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27 (0.56)	43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25 (0.52)	40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23 (0.52)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	99.55 0.71 0.92 0.15 0.65 0.08 (0.92) 0.59 (1.52) 0.40	33.83 0.58 0.65 0.15 0.65 0.10 (0.50) 0.14 (0.64) 0.41	29.91 0.88 0.64 0.16 0.66 0.09 (0.31) 0.19 (0.51) 0.42	35.00 1.09 0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57) 0.41	28.78 0.88 0.68 0.14 0.66 0.09 0.05 0.22 (0.17) 0.42	32.53 1.00 0.57 0.16 0.67 0.09 0.30 0.18 0.12 0.42	39.58 0.93 0.49 0.09 0.67 0.06 (0.13) 0.44 (0.57) 0.42	42.56 0.72 0.51 0.09 0.66 0.06 (0.02) 0.59 (0.61) 0.42	38.70 0.40 0.52 0.09 0.66 0.08 (0.11) 0.37 (0.48) 0.42	35.85 0.36 0.80 0.16 0.63 0.09 (0.30) 0.27 (0.56) 0.40	43.15 1.18 0.66 0.17 0.63 0.09 (0.27) 0.25 (0.52) 0.40	40.31 0.93 0.54 0.17 0.63 0.08 (0.29) 0.23 (0.52) 0.40

^{*} Excludes ICAP payments. Market Mitigation and Analysis Prepared: 11/7/2019 11:31 AM



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>2019</u>	<u>January</u>	February	<u>March</u>	<u>April</u>	May	<u>June</u>	July	August	September	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	15,299,458	13,391,383	13,527,834	11,811,029	12,521,583	13,723,372	17,416,589	16,379,968	13,588,715	12,567,821		
DAM LSE Internal LBMP Energy Sales	57%	57%	59%	59%	57%	58%	64%	63%	58%	57%		
DAM External TC LBMP Energy Sales	6%	5%	3%	1%	3%	3%	3%	3%	3%	4%		
DAM Bilateral - Internal Bilaterals	29%	30%	30%	31%	32%	29%	26%	26%	30%	32%		
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	5%	6%	5%	4%	4%	5%	5%		
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	2%	2%	2%	1%	1%	2%	2%		
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	1%	2%	2%	2%	2%	1%		
Balancing Energy Market MWh	-322,442	-323,188	-261,217	-218,482	-392,699	-102,044	103,628	-514,102	-247,267	-112,057		
Balancing Energy LSE Internal LBMP Energy Sales	-120%	-126%	-138%	-178%	-150%	-264%	-2%	-119%	-163%	-346%		
Balancing Energy External TC LBMP Energy Sales	65%	67%	82%	113%	68%	233%	199%	41%	93%	266%		
Balancing Energy Bilateral - Internal Bilaterals	-4%	-1%	-3%	2%	1%	0%	5%	0%	-4%	6%		
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	15%	0%	0%	0%		
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	3%	7%	6%	7%	2%	8%	8%	1%	6%	25%		
Balancing Energy Bilateral - Wheel Through Bilaterals	-45%	-47%	-47%	-44%	-21%	-77%	-125%	-23%	-31%	-52%		
Transactions Summary	1070	11 70	11 70	1170	2170	1170	12070	2070	0170	0270		
LBMP	63%	62%	61%	60%	59%	62%	68%	65%	61%	61%		
Internal Bilaterals	29%	30%	30%	31%	33%	30%	25%	27%	30%	32%		
Import Bilaterals	29% 5%	5%	6%	6%	55% 6%	5%	4%	5%	5%	5%		
•	5% 1%	2%	2%	2%	2%	2%	4% 1%	5% 1%	5% 2%	5% 2%		
Export Bilaterals	1%	2% 1%	2% 1%	2% 1%	2% 0%	2% 1%	1%	1%	2% 2%	2% 0%		
Wheels Through	170	170	170	170	0%	170	170	170	270	0%		
Market Share of Total Load	400.00/	400 50/	100.00/	404.00/	100.00/	400 70/	00.40/	400.00/	404.00/	400.00/		
Day Ahead Market	102.2%	102.5%	102.0%	101.9%	103.2%	100.7%	99.4%	103.2%	101.9%	100.9%		
Balancing Energy +	-2.2%	-2.5%	-2.0%	-1.9%	-3.2%	-0.7%	0.6%	-3.2%	-1.9%	-0.9%		
Total MWH			13,266,617		12,128,884	13,621,328		15,865,866		12,455,764		
Average Daily Energy Sendout/Month GWh	449	436	411	371	373	429	539	487	419	377		
2018	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWh	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073	13,983,384	16,839,994	17,195,447	14,432,632	13,548,828	13,506,134	14.450.460
DAM LSE Internal LBMP Energy Sales	59%	57%	58%	60%	61%	61%	65%	65%	61%	57%	58%	56%
DAM External TC LBMP Energy Sales	4%	3%	2%	2%	2%	1%	1%	2%	3%	6%	6%	6%
DAM Bilateral - Internal Bilaterals	29%	0 70			2/0	1 70	170			29%	30%	30%
		210/		30%	20%	30%	26%	25%		5%	30 /0	
		31%	32%	30%	29%	30%	26%	25%	28%		20/	
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	5%	32% 5%	5%	5%	5%	4%	4%	28% 5%		2%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	5% 2%	5% 2%	32% 5% 2%	5% 2%	5% 2%	5% 1%	4% 1%	4% 1%	28% 5% 1%	2%	2%	5% 2%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	5% 2% 1%	5% 2% 2%	32% 5% 2% 2%	5% 2% 2%	5% 2% 2%	5% 1% 2%	4% 1% 2%	4% 1% 2%	28% 5% 1% 2%	2% 1%	2% 1%	5% 2% 2%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh	5% 2% 1% -149,619	5% 2% 2% -299,377	32% 5% 2% 2% -386,811	5% 2% 2% -72,862	5% 2% 2% -29,539	5% 1% 2% -354,112	4% 1% 2% -80,438	4% 1% 2% -44,732	28% 5% 1% 2% -210,436	2% 1% -314,885	2% 1% -304,277	5% 2% 2% -428,748
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales	5% 2% 1% -149,619 -147%	5% 2% 2% -299,377 -101%	32% 5% 2% 2% -386,811 -128%	5% 2% 2% -72,862 -208%	5% 2% 2% -29,539 -458%	5% 1% 2% -354,112 -113%	4% 1% 2% -80,438 -123%	4% 1% 2% -44,732 -75%	28% 5% 1% 2% -210,436 -82%	2% 1% -314,885 -105%	2% 1% -304,277 -100%	5% 2% 2% -428,748 -94%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales	5% 2% 1% -149,619 -147% 74%	5% 2% 2% -299,377 -101% 24%	32% 5% 2% 2% -386,811 -128% 37%	5% 2% 2% -72,862 -208% 189%	5% 2% 2% -29,539 -458% 564%	5% 1% 2% -354,112 -113% 29%	4% 1% 2% -80,438 -123% 129%	4% 1% 2% -44,732 -75% 209%	28% 5% 1% 2% -210,436 -82% 14%	2% 1% -314,885 -105% 30%	2% 1% -304,277 -100% 18%	5% 2% 2% -428,748 -94% 27%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	5% 2% 1% -149,619 -147% 74% 9%	5% 2% 2% -299,377 -101% 24% 5%	32% 5% 2% 2% -386,811 -128% 37% 0%	5% 2% 2% -72,862 -208% 189% -11%	5% 2% 2% -29,539 -458% 564% 29%	5% 1% 2% -354,112 -113% 29% 5%	4% 1% 2% -80,438 -123% 129% 18%	4% 1% 2% -44,732 -75% 209% 23%	28% 5% 1% 2% -210,436 -82% 14% 7%	2% 1% -314,885 -105% 30% 2%	2% 1% -304,277 -100% 18% 3%	5% 2% 2% -428,748 -94% 27% 3%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	5% 2% 1% -149,619 -147% 74% 9% 0%	5% 2% 2% -299,377 -101% 24% 5% 0%	32% 5% 2% 2% -386,811 -128% 37% 0% 0%	5% 2% 2% -72,862 -208% 189% -11% 0%	5% 2% 2% -29,539 -458% 564% 29% 0%	5% 1% 2% -354,112 -113% 29% 5% 0%	4% 1% 2% -80,438 -123% 129% 18% 0%	4% 1% 2% -44,732 -75% 209% 23% 0%	28% 5% 1% 2% -210,436 -82% 14% 7% 0%	2% 1% -314,885 -105% 30% 2% 0%	2% 1% -304,277 -100% 18% 3% 10%	5% 2% 2% -428,748 -94% 27% 3% 0%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	5% 2% 1% -149,619 -147% 74% 9% 0% 22%	5% 2% 2% -299,377 -101% 24% 5% 0% 9%	32% 5% 2% 2% -386,811 -128% 37% 0% 0% 6%	5% 2% 2% -72,862 -208% 189% -11% 0% 34%	5% 2% 2% -29,539 -458% 564% 29% 0% 51%	5% 1% 2% -354,112 -113% 29% 5% 0% 3%	4% 1% 2% -80,438 -123% 129% 18% 0% 14%	4% 1% 2% -44,732 -75% 209% 23% 0% 25%	28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3%	2% 1% -314,885 -105% 30% 2% 0% 0%	2% 1% -304,277 -100% 18% 3% 10% 0%	5% 2% 2% -428,748 -94% 27% 3% 0% 0%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals	5% 2% 1% -149,619 -147% 74% 9% 0%	5% 2% 2% -299,377 -101% 24% 5% 0%	32% 5% 2% 2% -386,811 -128% 37% 0% 0%	5% 2% 2% -72,862 -208% 189% -11% 0%	5% 2% 2% -29,539 -458% 564% 29% 0%	5% 1% 2% -354,112 -113% 29% 5% 0%	4% 1% 2% -80,438 -123% 129% 18% 0%	4% 1% 2% -44,732 -75% 209% 23% 0%	28% 5% 1% 2% -210,436 -82% 14% 7% 0%	2% 1% -314,885 -105% 30% 2% 0%	2% 1% -304,277 -100% 18% 3% 10%	5% 2% 2% -428,748 -94% 27% 3% 0%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary	5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36%	32% 5% 2% 2% -386,811 -128% 37% 0% 0% 6% -15%	5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103%	5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23%	4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281%	28% 5% 1% 2% -210,436 -82% 14% 0% 3% -42%	2% 1% -314,885 -105% 30% 2% 0% 0% -27%	2% 1% -304,277 -100% 18% 3% 10% 0% -31%	5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP	5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36%	32% 5% 2% 2% -386,811 -128% 37% 0% 0% 6% -15%	5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103%	5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23%	4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281%	28% 5% 1% 2% -210,436 -82% 14% 0% 3% -42%	2% 1% -314,885 -105% 30% 2% 0% -27%	2% 1% -304,277 -100% 18% 3% 10% 0% -31%	5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary	5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	5% 2% 2% -299,377 -101% 24% 5% 0% -36% 59% 32%	32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15%	5% 2% 2% -72,862 -208% -11% 0% -103% -103%	5% 2% 2% -29,539 -458% 564% 29% 51% -287%	5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23%	4% 1% 2% -80,438 -123% 129% 18% 0% -138% -66% 27%	4% 1% 2% -44,732 -75% 209% 23% 0% -25% -281%	28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42%	2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30%	2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31%	5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals	5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5%	5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36%	32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15%	5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5%	5% 2% 2% -29,539 -458% 564% 29% 51% -287% 63% 29% 5%	5% 1% 2% -354,112 -113% 5% 0% 33% -23%	4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4%	28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42%	2% 1% -314,885 -105% 30% 2% 0% -27% 63% 30% 5%	2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3%	5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 5%
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DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals	5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2%	5% 2% 2% -299,377 -101% 24% 5% 0% -36% -36% 59% 32% 5% 2%	32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2%	5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2%	5% 2% 2% -29,539 -458% 564% 29% 51% -287% 63% 29% 5% 2%	5% 1% 2% -354,112 -113% 5% 0% 33% -23% 61% 31% 5% 1%	4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1%	4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4%	28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42%	2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2%	2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2%	5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 5% 2%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through	5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2%	5% 2% 2% -299,377 -101% 24% 5% 0% -36% -36% -32% 5% 2% 1%	32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	5% 2% 2% -29,539 -458% 564% 29% 51% -287% 63% 29% 5% 2% 1%	5% 1% 2% -354,112 -113% 29% 5% 0% 33% -23% 61% 31% 5% 1% 2%	4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 100.5%	4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 4% 1% 10.3%	28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	5% 2% 2% 248,748 -94% 27% 3% 0% 0% -36% 61% 31% 5% 2% 1%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through Market Share of Total Load	5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	5% 2% 299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	5% 2% 2% -29,539 -458% 564% 29% 51% -287% 63% 29% 5% 2% 1%	5% 1% 2% -354,112 -113% 29% 5% 0% 33% -23% 61% 31% 5% 1% 2%	4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1%	4% 1% 2% -44,732 -75% 209% 0% 25% -281% 68% 25% 4% 1% 1%	28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	2% 1% -314,885 -105% 30% 2% 0% -27% 63% 30% 5% 2% 1%	2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	5% 2% 2% -428,748 -94% 27% 3% 0% -36% -36% -31% 5% 2% 1% -3.1%
DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market	5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	5% 2% 2% -299,377 -101% 24% 5% 0% -36% -36% -32% 5% 2% 1%	32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	5% 2% 2% -29,539 -458% 564% 29% 51% -287% 63% 29% 5% 2% 1%	5% 1% 2% -354,112 -113% 29% 5% 0% 33% -23% 61% 31% 5% 1% 2%	4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 100.5%	4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 4% 1% 10.3%	28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	5% 2% 2% 248,748 -94% 27% 3% 0% 0% -36% 61% 31% 5% 2% 1%

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

⁺ Balancing Energy: Load(MW) purchased at Real Time LBMP.

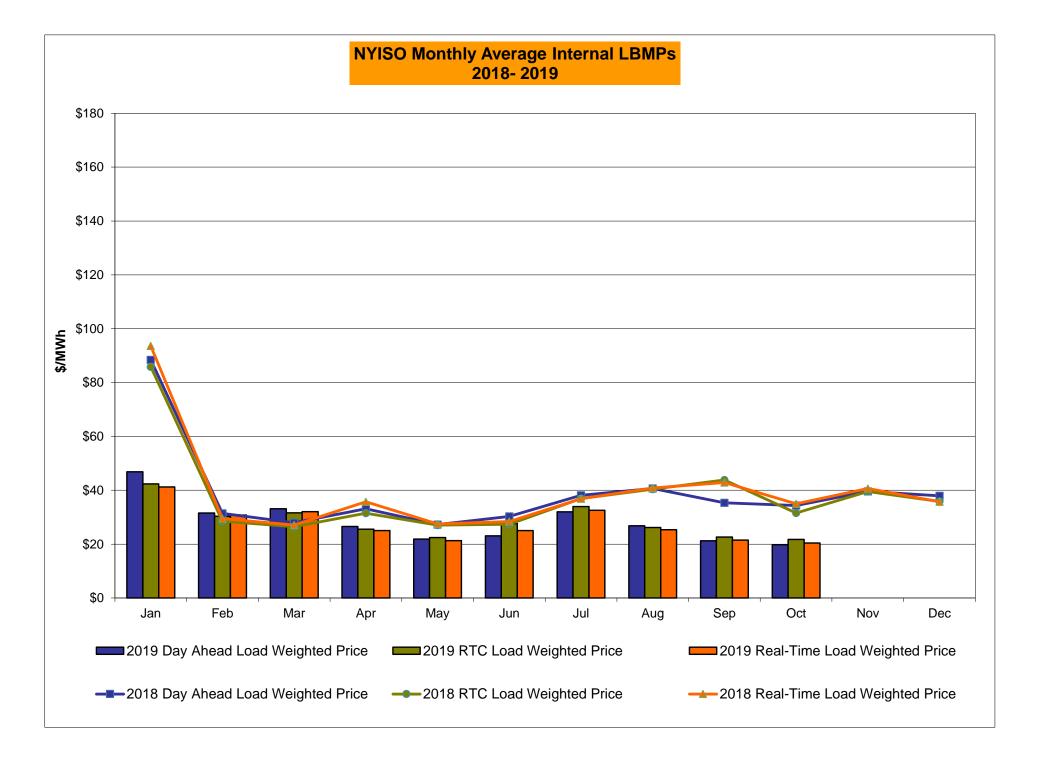
* The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

NYISO Markets 2019 Energy Statistics

				141100	Wai KCtS	ZO 13 LIIC	igy Otati	31103				
DAY ALIFAD I DMD	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	October	November D	<u>ecember</u>
DAY AHEAD LBMP	045.04	# 00.00	# 00 04	COE 07	CO4.40	ФО4 7 0	#00.40		COO 45	#40.40		
Price *	\$45.01	\$30.66	\$32.34	\$25.97	\$21.16	\$21.79	\$30.16	\$25.35	\$20.45	\$19.18		
Standard Deviation	\$25.67	\$12.86	\$9.30	\$6.32	\$5.89	\$7.28	\$12.06	\$8.73	\$5.57	\$5.09		
Load Weighted Price **	\$46.88	\$31.53	\$33.14	\$26.57	\$21.89	\$23.04	\$31.98	\$26.83	\$21.23	\$19.77		
RTC LBMP												
Price *	\$40.86	\$29.74	\$31.04	\$25.07	\$21.88	\$25.67	\$32.23	\$24.92	\$21.70	\$20.92		
Standard Deviation	\$23.02	\$10.79	\$8.48	\$7.53	\$8.01	\$23.45	\$21.96	\$14.96	\$9.22	\$13.95		
Load Weighted Price **	\$42.39	\$30.32	\$31.62	\$25.54	\$22.44	\$27.64	\$33.92	\$26.14	\$22.60	\$21.76		
REAL TIME LBMP												
Price *	\$39.54	\$30.13	\$31.46	\$24.47	\$20.56	\$23.30	\$30.77	\$24.01	\$20.49	\$19.53		
Standard Deviation	\$26.03	\$13.77	\$12.54	\$17.27	\$10.35	\$17.49	\$20.63	\$12.36	\$9.62	\$12.02		
Load Weighted Price **	\$41.24	\$30.80	\$32.06	\$25.06	\$21.28	\$25.05	\$32.53	\$25.34	\$21.50	\$20.43		
Average Daily Energy Sendout/Month GWh	449	436	411	371	373	429	539	487	419	377		
				NYISO	Markets	2018 Ene	ergy Stati	stics				
	lanuam.	Fabruari.	Morah	اند م	Mov	luna	le de c	August	Contombor	Ootobor	November 5) o o o o o o o
DAY AHEAD LBMP	<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 D	recember
Price *	\$83.53	\$30.37	¢27 27	\$32.40	\$25.97	 ሮጋዐ //1	\$35.73	\$38.00	\$33.28	¢22.27	\$38.36	¢26.00
Standard Deviation	-	-	\$27.37	-	-	\$28.41 \$11.42	-	-	*	\$33.27	-	\$36.88 \$11.61
	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25	\$16.51	\$12.01	\$9.24	\$11.36	\$11.61
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26	\$30.27	\$38.14	\$40.64	\$35.33	\$34.33	\$39.55	\$37.96

	<u>January</u>	rebruary	<u> March</u>	April	<u>iviay</u>	June	July	August	September	October	<u>ivovember</u>	December
DAY AHEAD LBMP												
Price *	\$83.53	\$30.37	\$27.37	\$32.40	\$25.97	\$28.41	\$35.73	\$38.00	\$33.28	\$33.27	\$38.36	\$36.88
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25	\$16.51	\$12.01	\$9.24	\$11.36	\$11.61
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26	\$30.27	\$38.14	\$40.64	\$35.33	\$34.33	\$39.55	\$37.96
RTC LBMP												
Price *	\$81.65	\$27.73	\$25.99	\$30.80	\$25.40	\$26.06	\$34.65	\$38.13	\$39.52	\$30.92	\$38.37	\$35.01
Standard Deviation	\$60.83	\$11.96	\$8.99	\$14.30	\$20.37	\$12.78	\$17.44	\$20.05	\$61.50	\$13.43	\$17.24	\$12.27
Load Weighted Price **	\$85.85	\$28.54	\$26.46	\$31.47	\$27.08	\$27.35	\$36.93	\$40.40	\$43.83	\$31.55	\$39.53	\$35.84
REAL TIME LBMP												
Price *	\$87.94	\$28.50	\$26.49	\$34.53	\$25.57	\$26.31	\$34.34	\$38.07	\$38.15	\$33.88	\$39.18	\$34.74
Standard Deviation	\$87.41	\$17.36	\$12.25	\$26.57	\$23.49	\$24.34	\$18.44	\$27.21	\$46.81	\$37.42	\$26.15	\$17.44
Load Weighted Price **	\$93.59	\$29.49	\$27.09	\$35.72	\$27.47	\$28.38	\$36.84	\$40.87	\$42.87	\$34.94	\$40.63	\$35.70
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537	458	399	411	425

^{*} Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.

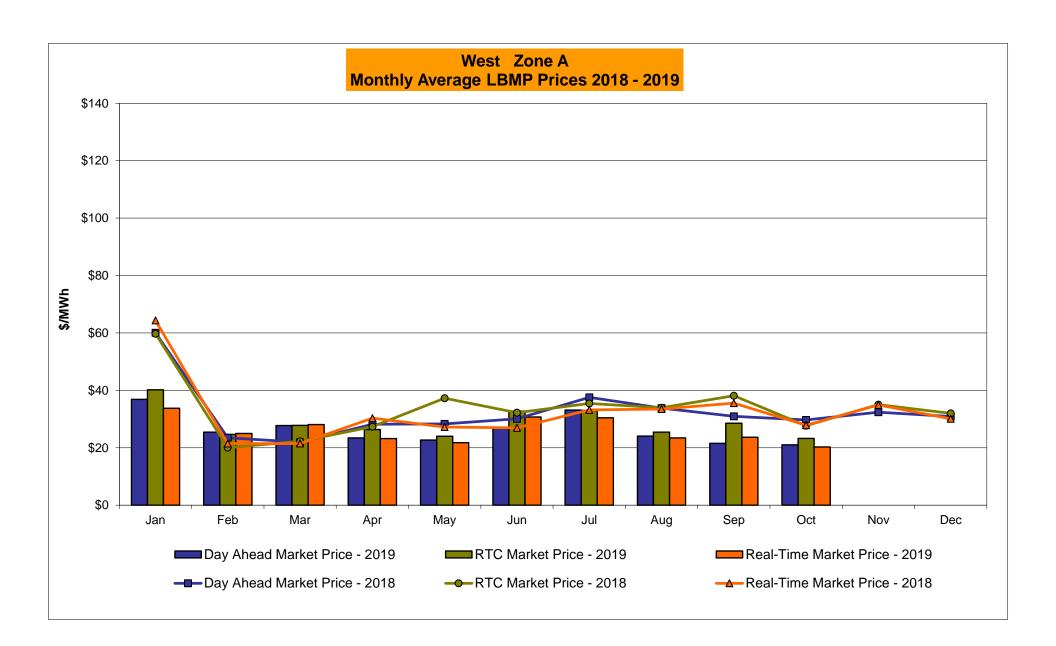


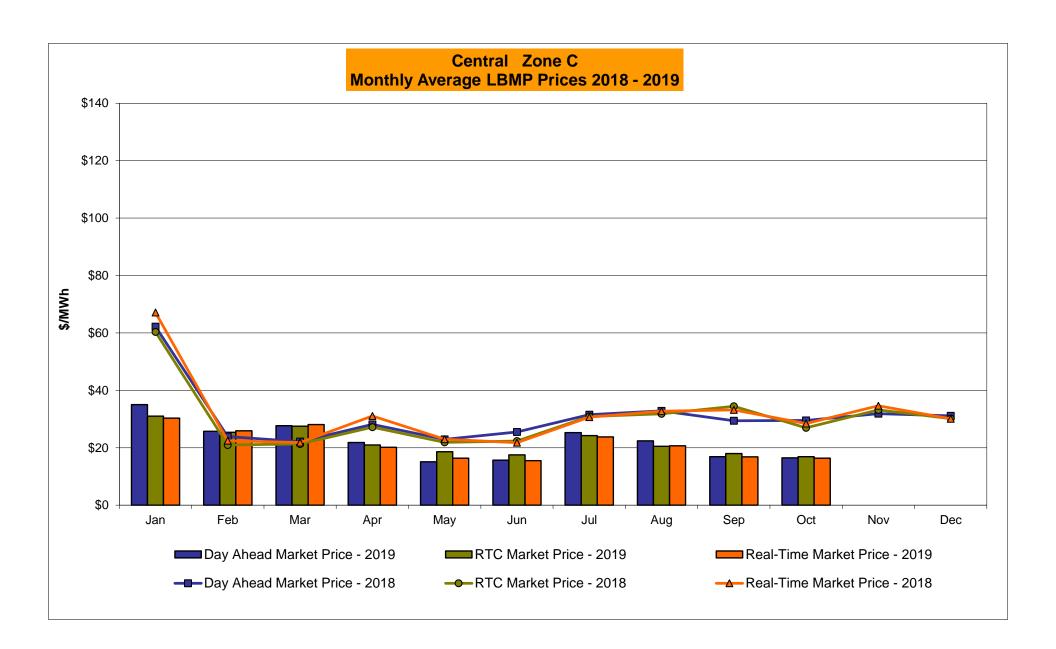
October 2019 Zonal LBMP Statistics for NYISO (\$/MWh)

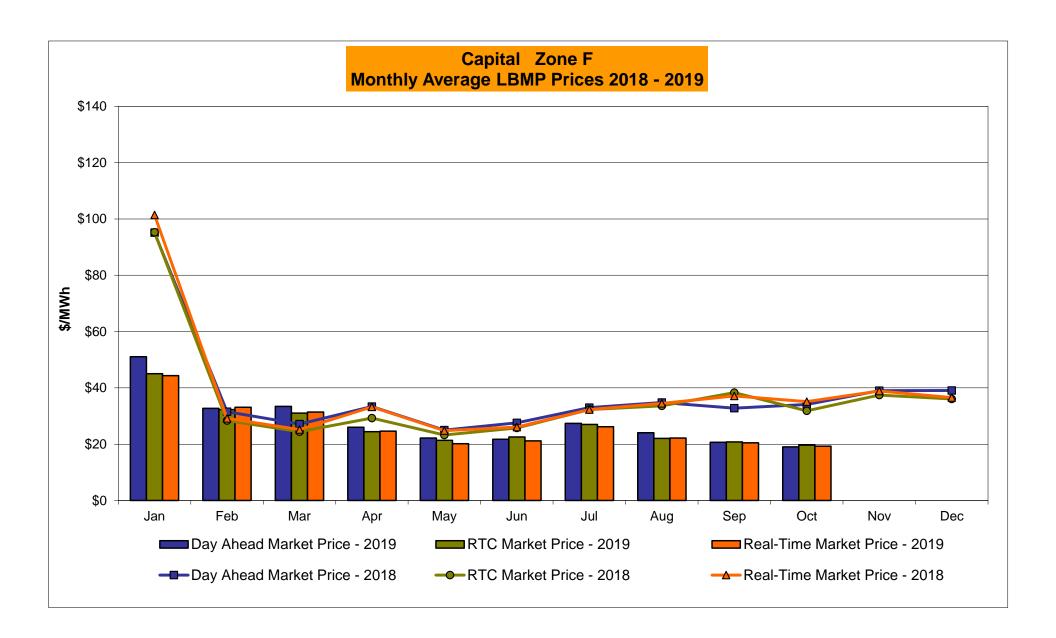
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	21.02	15.83	11.84	16.49	16.35	19.02	18.79	19.00	19.08	19.86	22.88
Standard Deviation	9.41	4.38	6.03	4.67	4.64	4.27	4.54	4.69	4.73	5.15	6.75
RTC LBMP											
Unweighted Price *	23.27	15.56	13.15	16.86	16.86	19.68	20.30	20.55	20.62	20.81	29.27
Standard Deviation	17.05	6.34	8.62	6.66	6.68	5.88	16.28	18.28	18.47	18.51	39.89
REAL TIME LBMP											
Unweighted Price *	20.27	15.53	12.20	16.35	16.32	19.30	19.70	19.95	20.01	20.30	23.92
Standard Deviation	19.02	8.17	13.34	8.60	8.80	8.78	13.20	14.32	14.44	14.75	15.91
		HYDRO	HYDRO			CROSS					
	ONTARIO	QUEBEC	QUEBEC		NEW	SOUND	NORTHPORT-				
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	IESO	QUEBEC (Wheel) (QUEBEC Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable	<u>Controllable</u>	Controllable
DAV AUEAD I DMD		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND CABLE	NORWALK				
DAY AHEAD LBMP	IESO Zone O	QUEBEC (Wheel) (Zone M	QUEBEC Import/Export) Zone M	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	Zone O 13.26	QUEBEC (Wheel) (Zone M 15.38	QUEBEC Import/Export) Zone M 15.12	Zone P 18.65	Zone N 19.52	SOUND CABLE Controllable Line	NORWALK Controllable Line 21.40	Controllable Line 22.17	Controllable Line 19.77	Controllable Line 19.69	Controllable Line 11.66
	IESO Zone O	QUEBEC (Wheel) (Zone M	QUEBEC Import/Export) Zone M	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price * Standard Deviation RTC LBMP	Zone O 13.26 3.98	QUEBEC (Wheel) (<u>Zone M</u> 15.38 4.66	QUEBEC Import/Export) Zone M 15.12	Zone P 18.65 5.29	Zone N 19.52 4.38	SOUND CABLE Controllable Line 22.72 6.68	NORWALK Controllable Line 21.40 5.22	Controllable Line 22.17 6.35	Controllable Line 19.77 5.14	Controllable Line 19.69 5.08	Controllable Line 11.66
Unweighted Price * Standard Deviation	IESO Zone O 13.26 3.98	QUEBEC (Wheel) (<u>Zone M</u> 15.38 4.66	QUEBEC Import/Export) Zone M 15.12 4.59	Zone P 18.65 5.29	ENGLAND Zone N 19.52 4.38	SOUND CABLE Controllable Line	NORWALK Controllable Line 21.40	Controllable Line 22.17	Controllable Line 19.77	Controllable Line 19.69	11.66 5.79
Unweighted Price * Standard Deviation RTC LBMP	Zone O 13.26 3.98	QUEBEC (Wheel) (<u>Zone M</u> 15.38 4.66	QUEBEC Import/Export) Zone M 15.12 4.59	Zone P 18.65 5.29	Zone N 19.52 4.38	SOUND CABLE Controllable Line 22.72 6.68	NORWALK Controllable Line 21.40 5.22	Controllable Line 22.17 6.35	Controllable Line 19.77 5.14	Controllable Line 19.69 5.08	Controllable Line 11.66 5.79
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price *	IESO Zone O 13.26 3.98	QUEBEC (Wheel) (<u>Zone M</u> 15.38 4.66	QUEBEC Import/Export) Zone M 15.12 4.59	Zone P 18.65 5.29	ENGLAND Zone N 19.52 4.38	SOUND CABLE Controllable Line 22.72 6.68	NORWALK Controllable Line 21.40 5.22	22.17 6.35	20.39 Controllable Line 19.77 5.14	20.71	11.66 5.79
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	IESO Zone O 13.26 3.98	QUEBEC (Wheel) (<u>Zone M</u> 15.38 4.66	QUEBEC Import/Export) Zone M 15.12 4.59	Zone P 18.65 5.29	ENGLAND Zone N 19.52 4.38	SOUND CABLE Controllable Line 22.72 6.68	NORWALK Controllable Line 21.40 5.22	22.17 6.35	20.39 Controllable Line 19.77 5.14	20.71	11.66 5.79

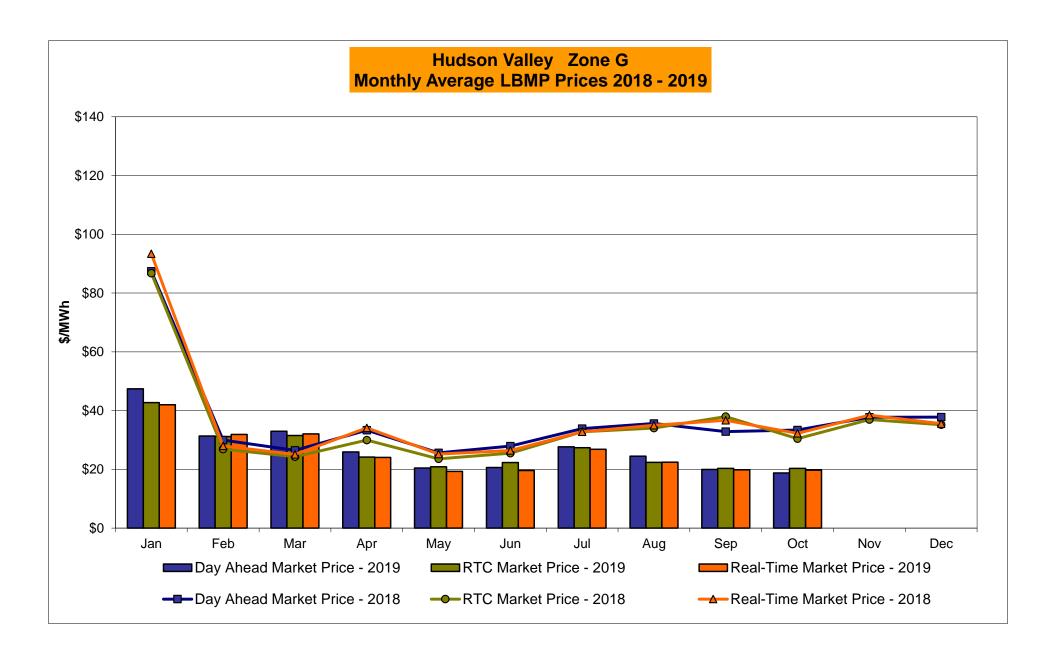
Market Mitigation and Analysis Prepared: 11/7/2019 11:30 AM

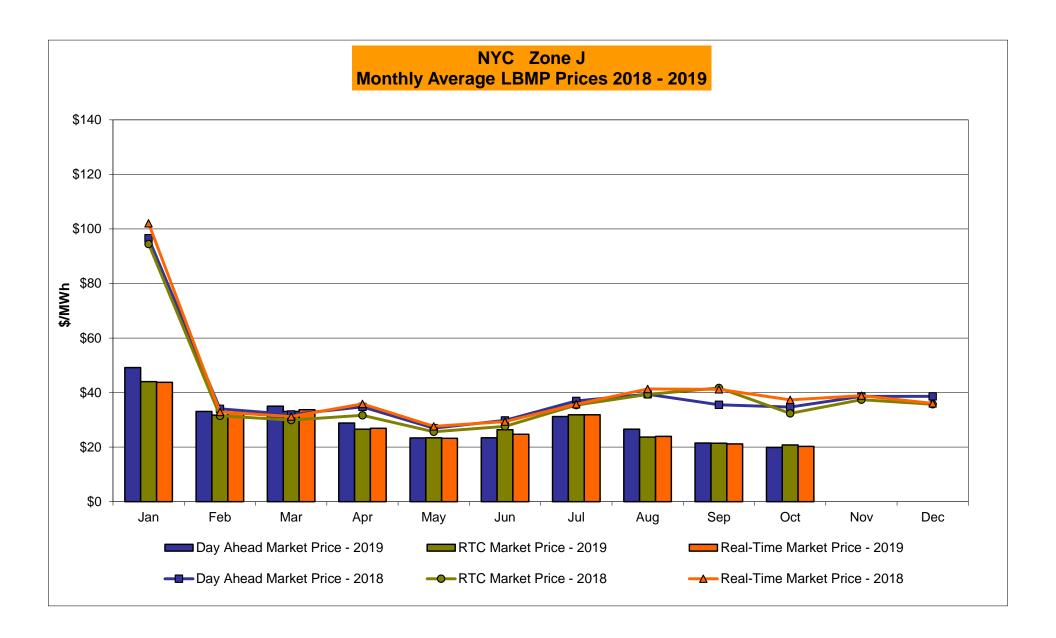
^{*} Straight LBMP averages

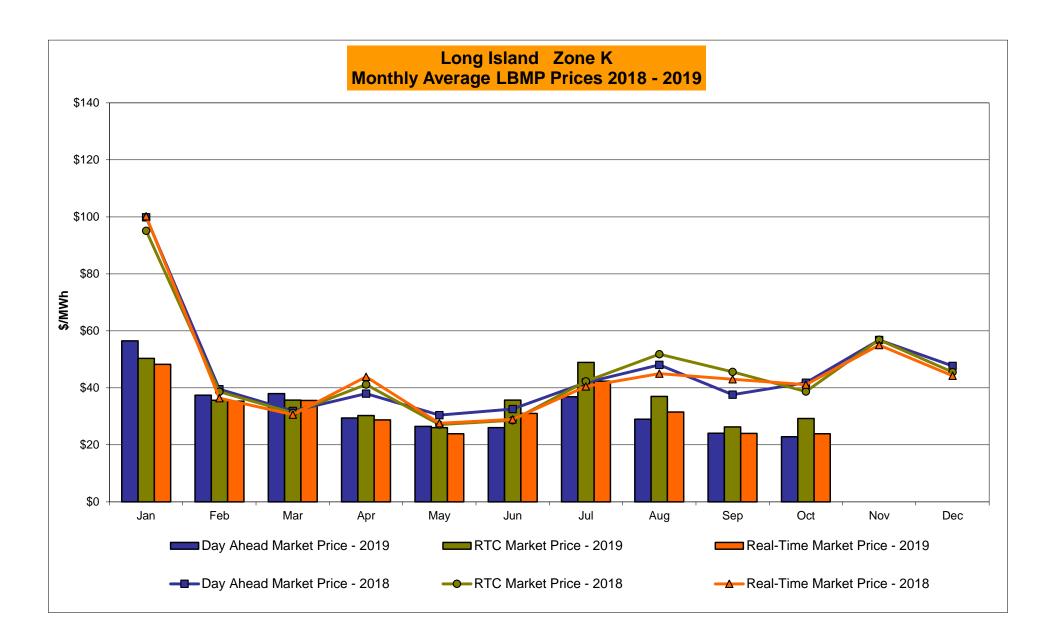


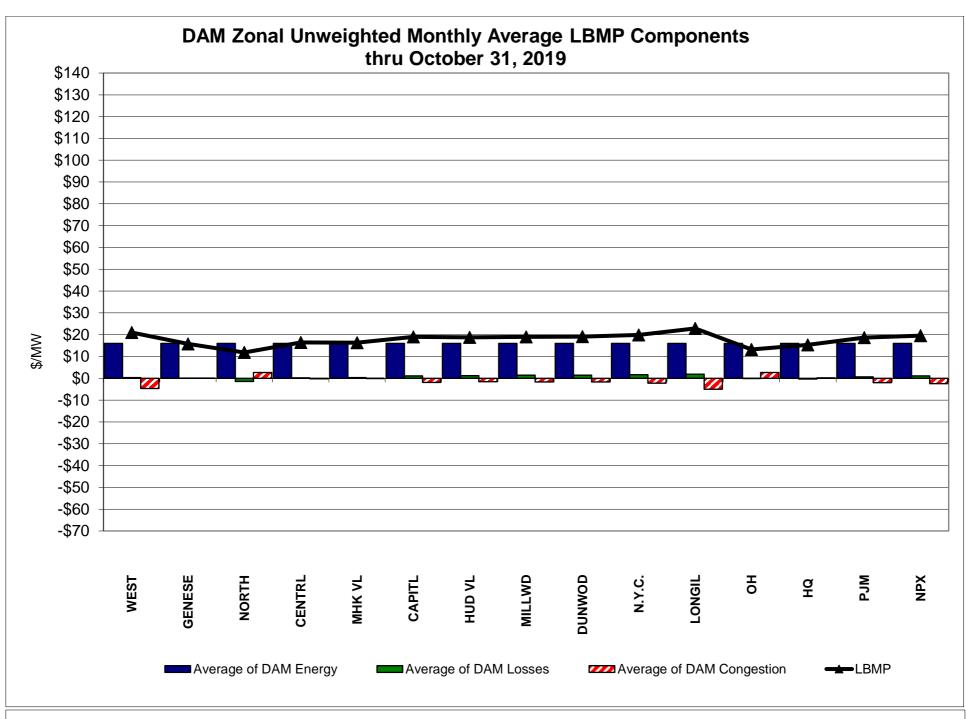


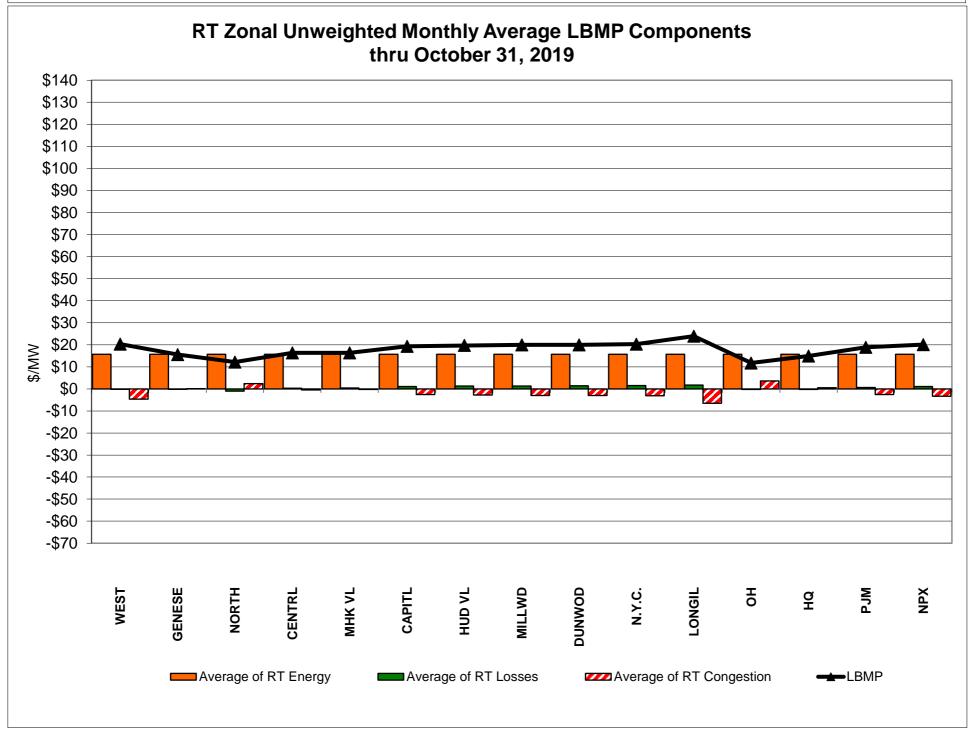




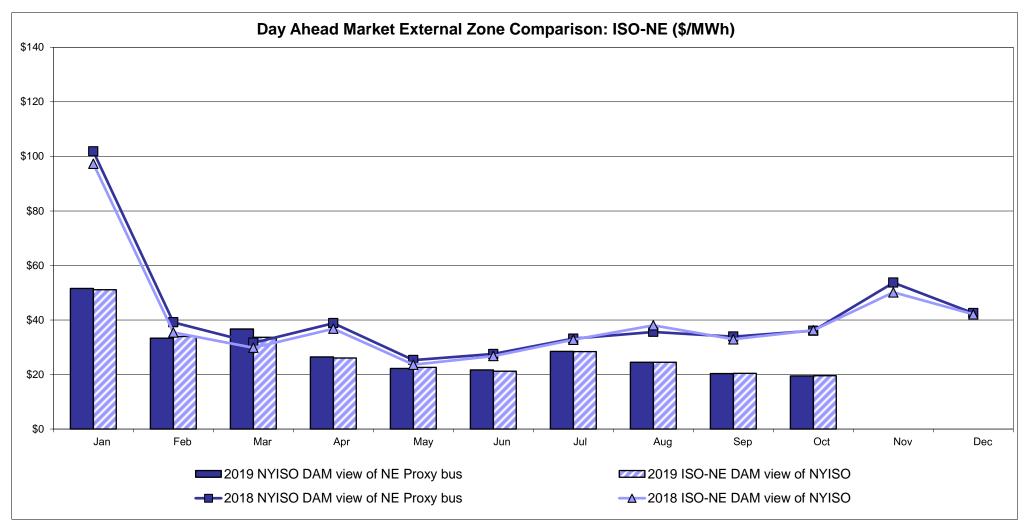


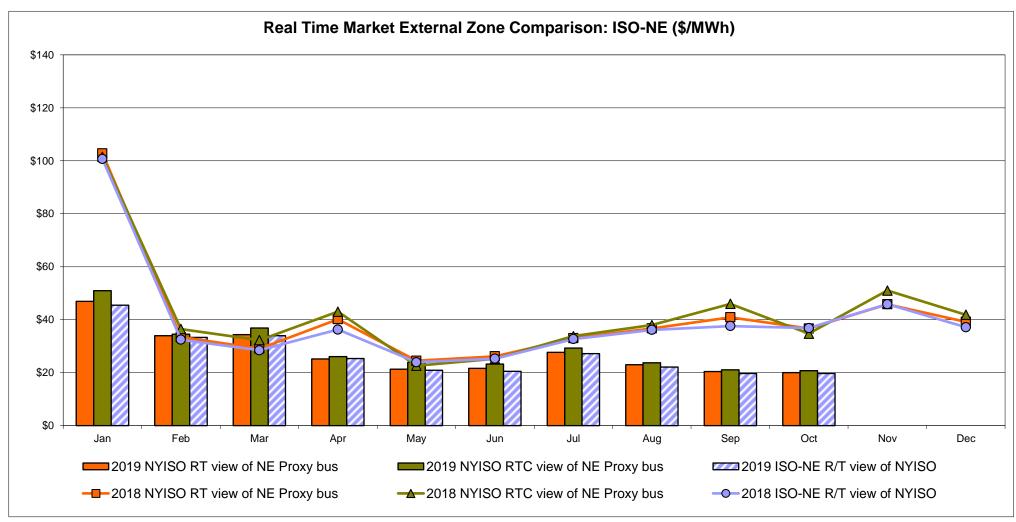




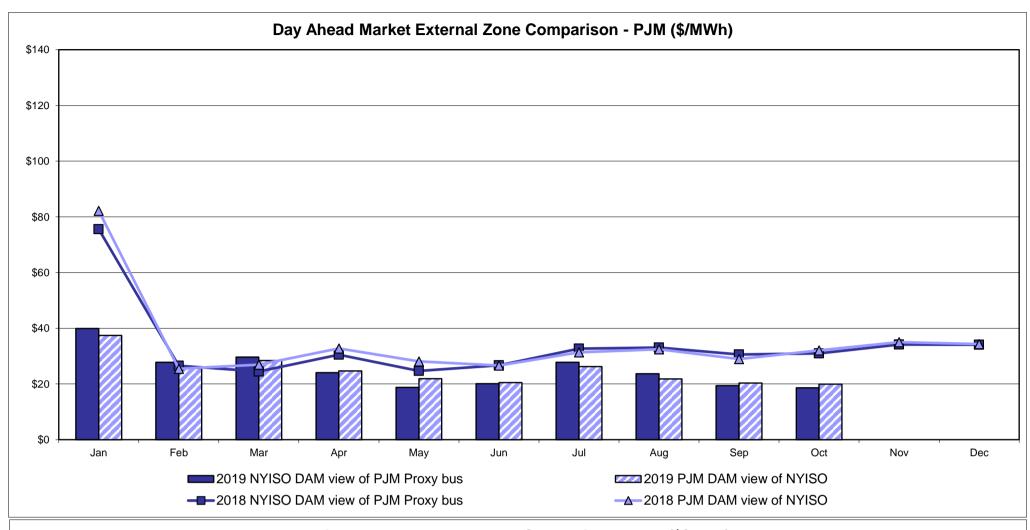


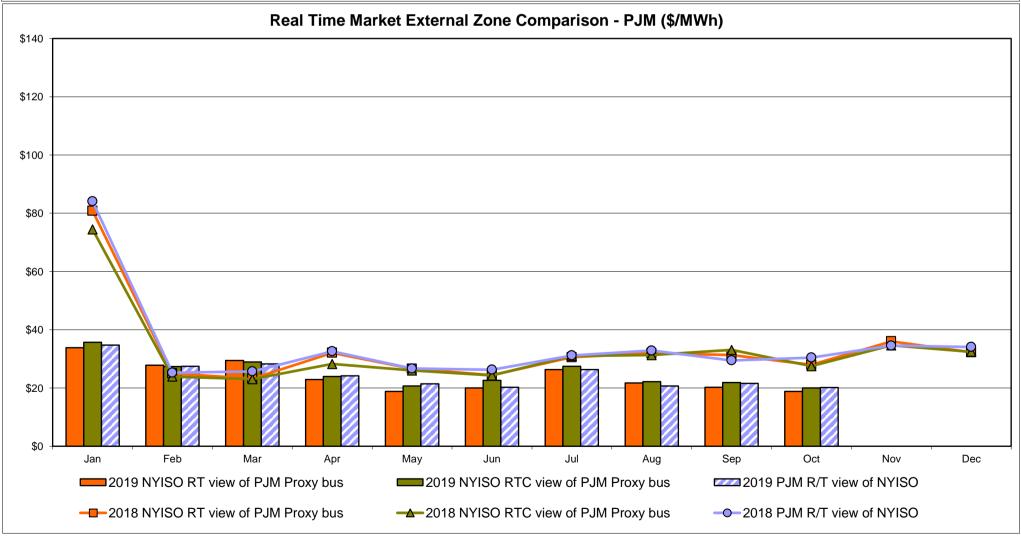
External Comparison ISO-New England



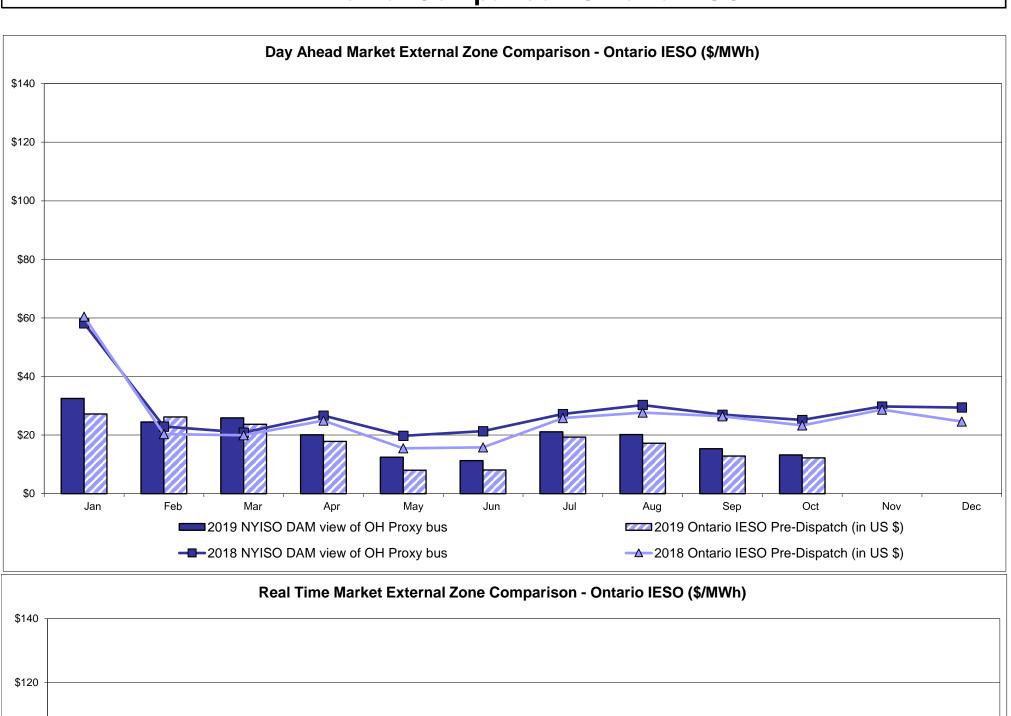


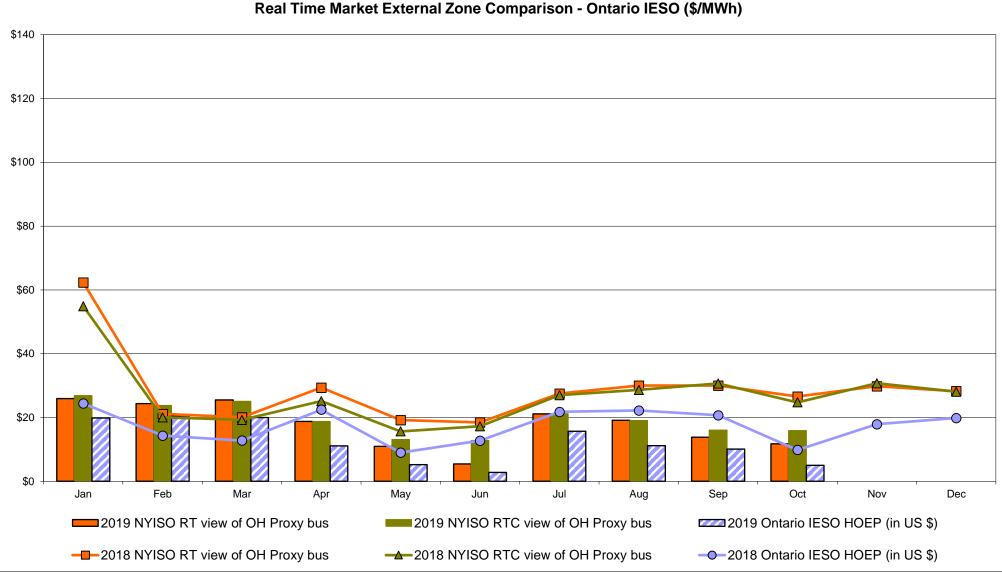
External Comparison PJM





External Comparison Ontario IESO

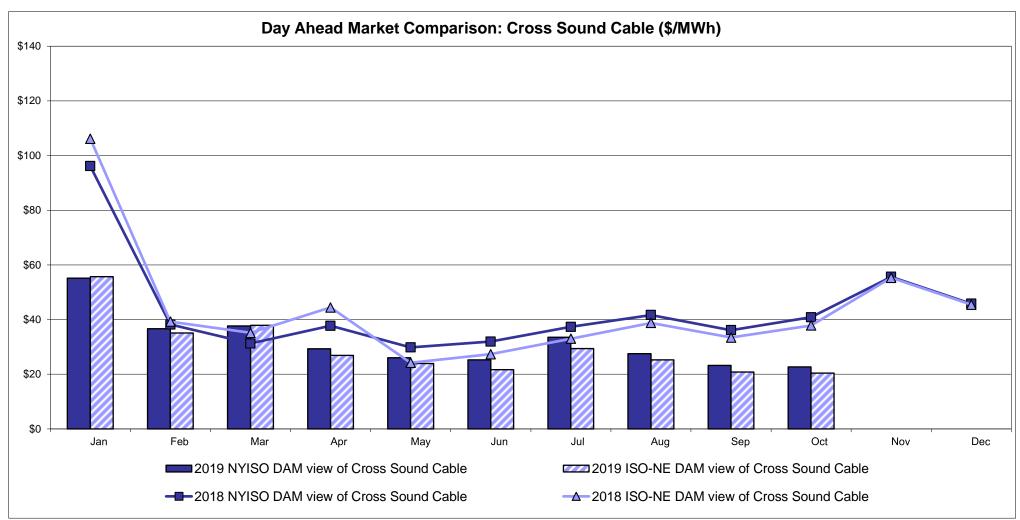


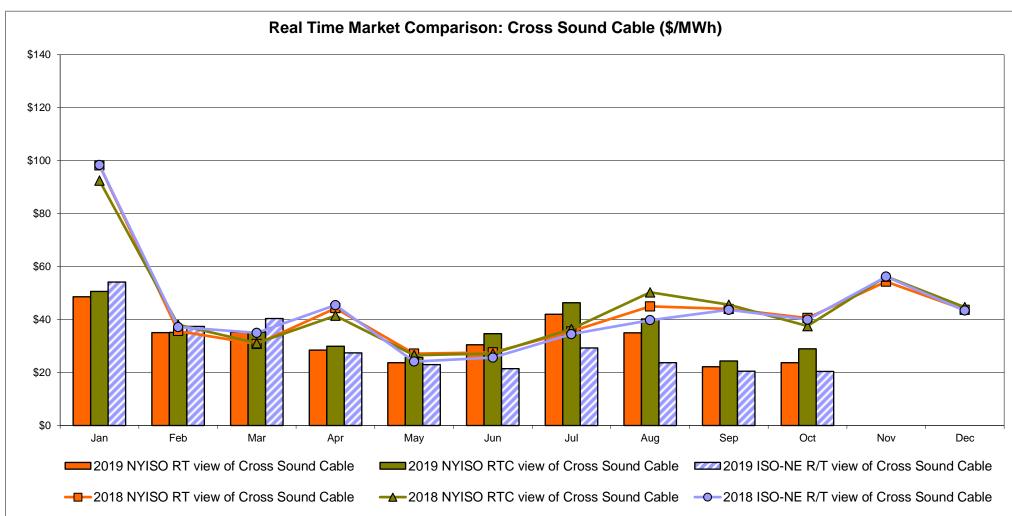


Notes: Exchange factor used for October 2019 was 0.758207597240124 to US

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

External Controllable Line: Cross Sound Cable (New England)





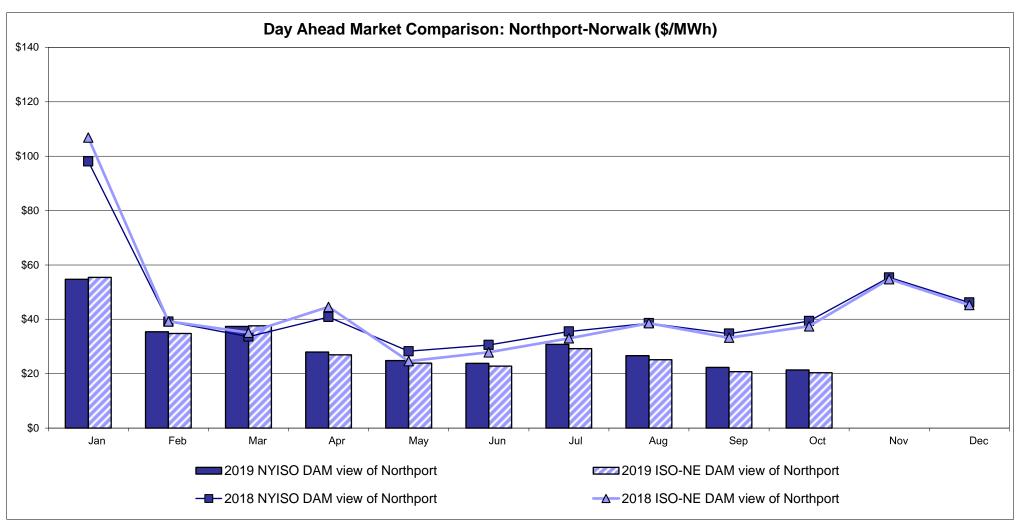
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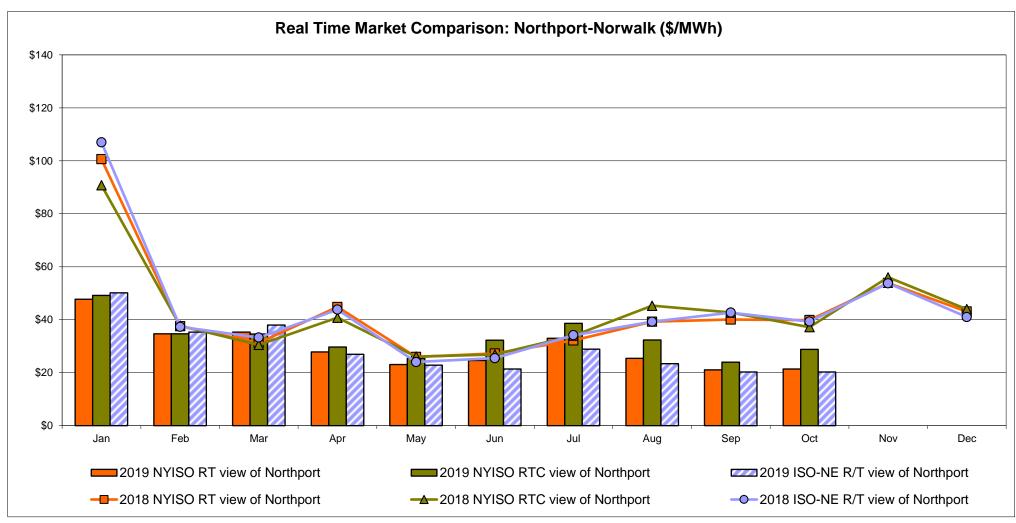
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

External Controllable Line: Northport - Norwalk (New England)





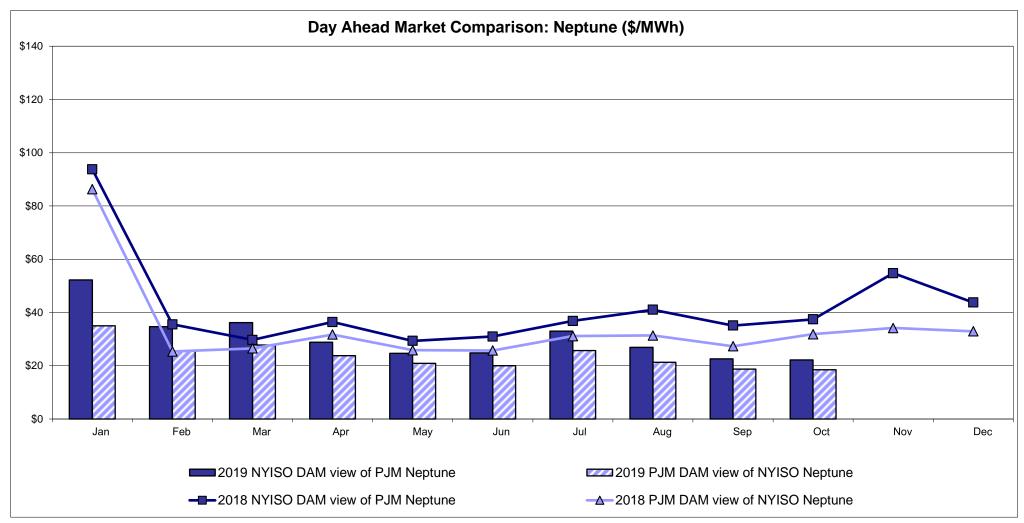
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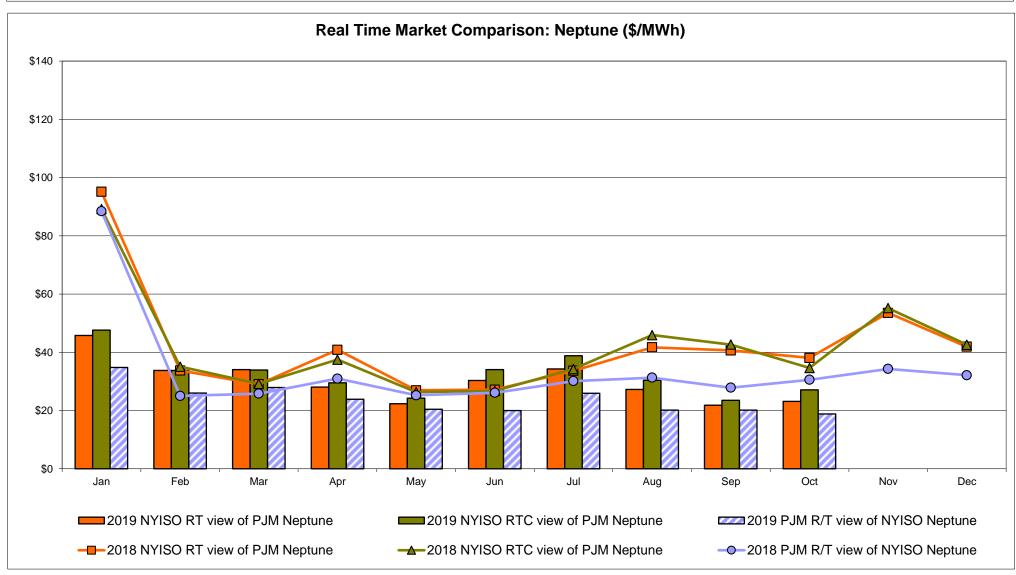
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

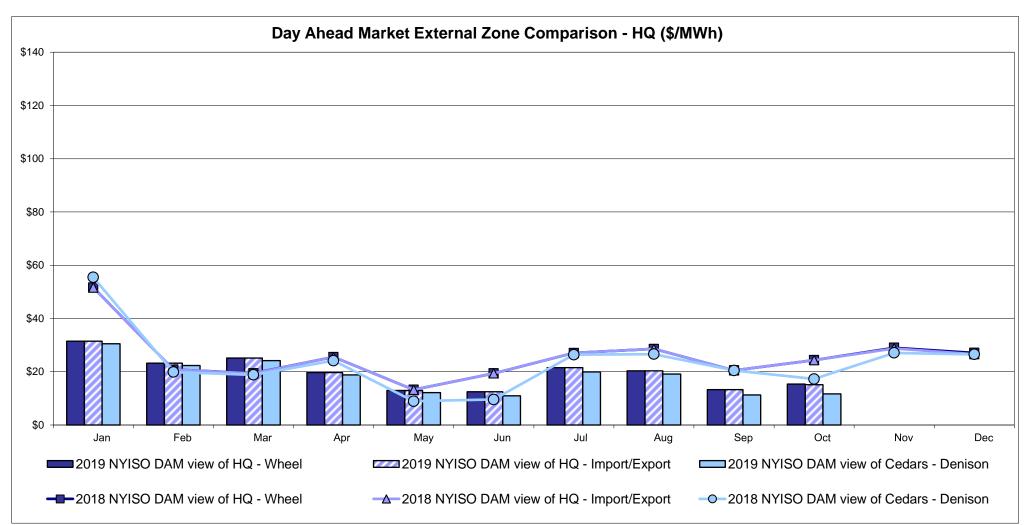
The DAM and R/T prices at the 1385 interface are used for NYISO.

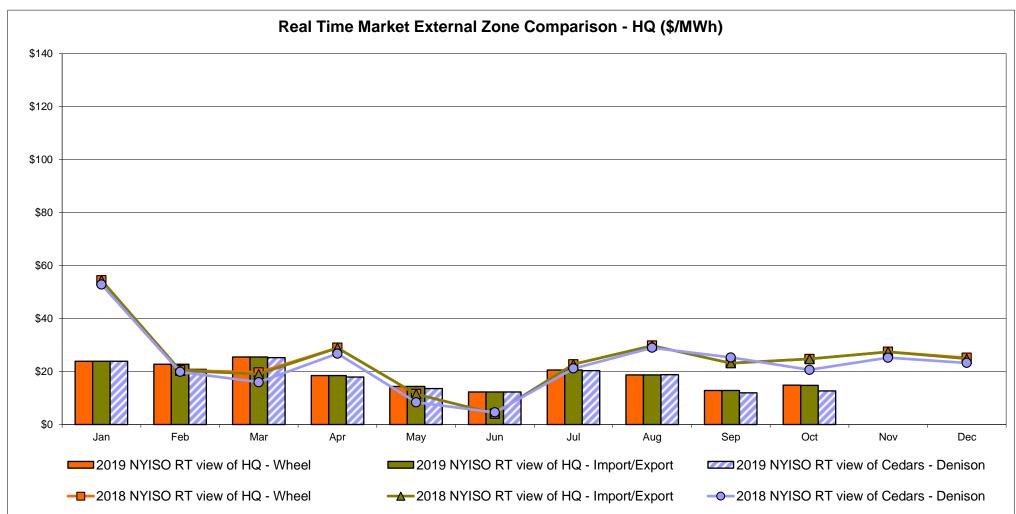
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

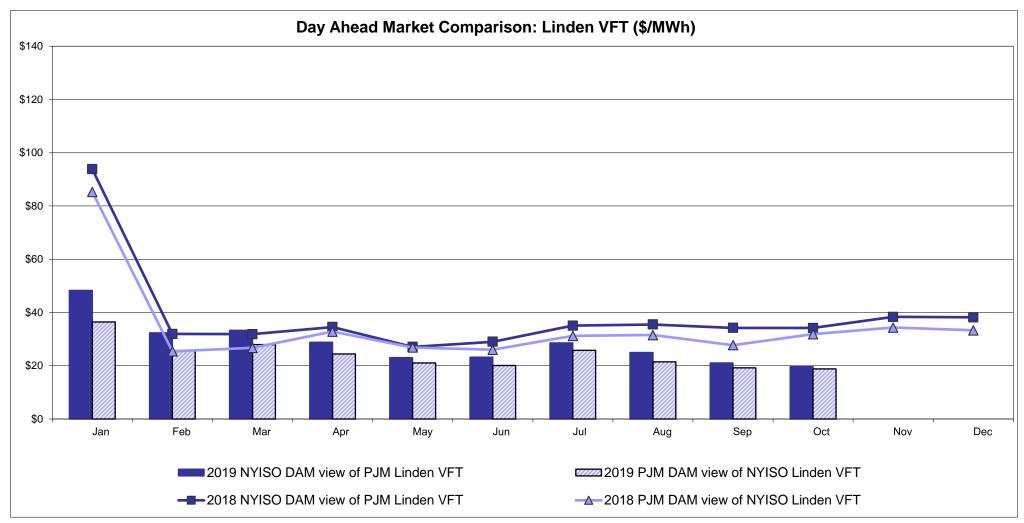


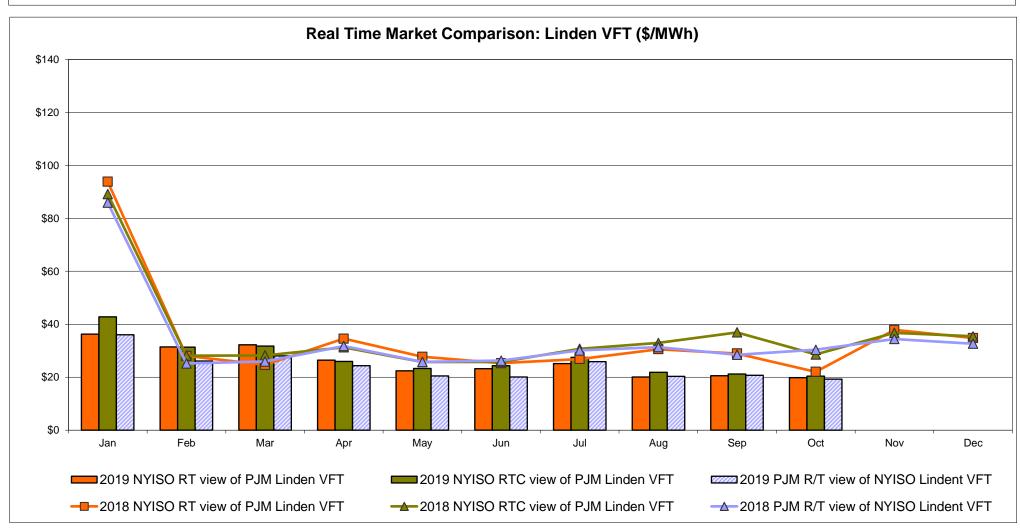


Note:

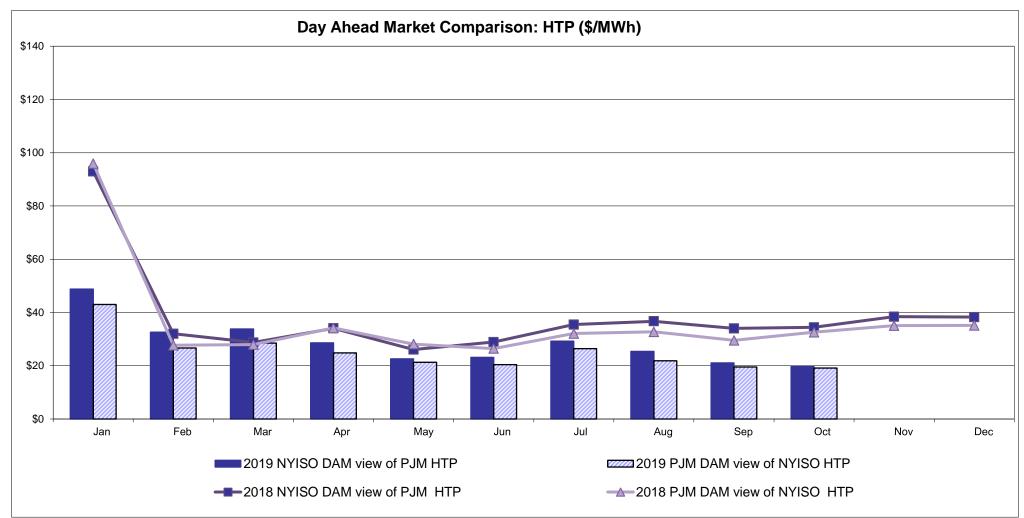
Hydro-Quebec Prices are unavailable.

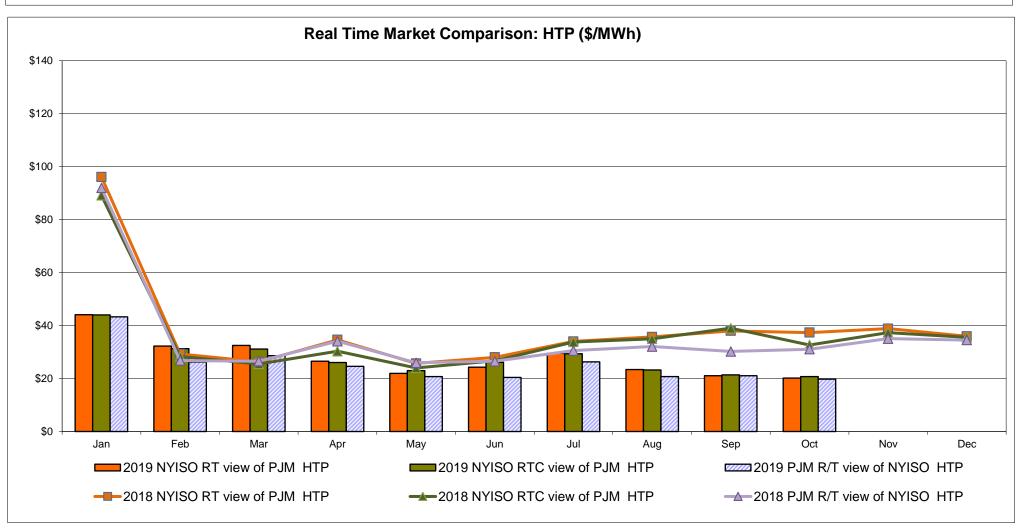
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)

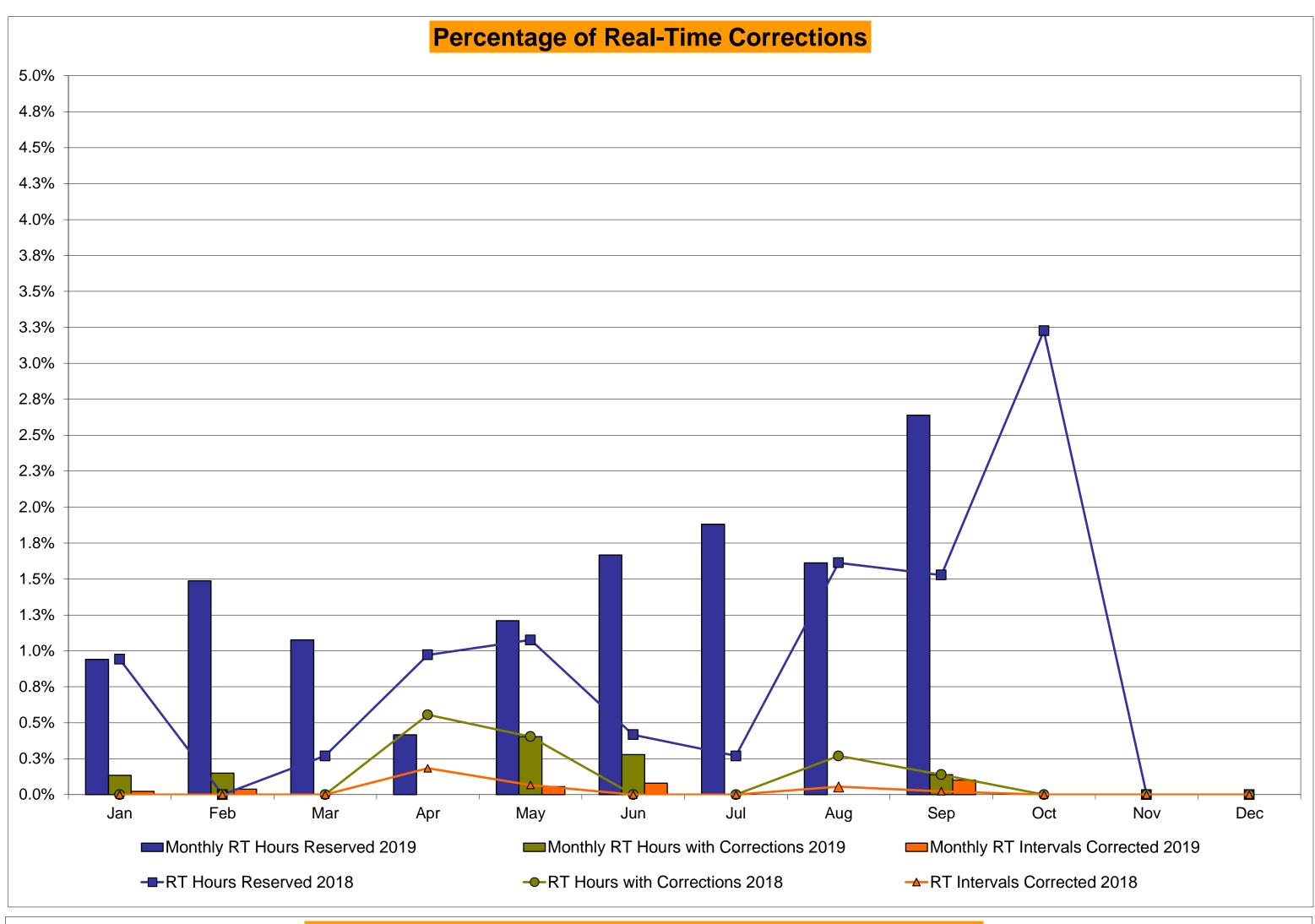


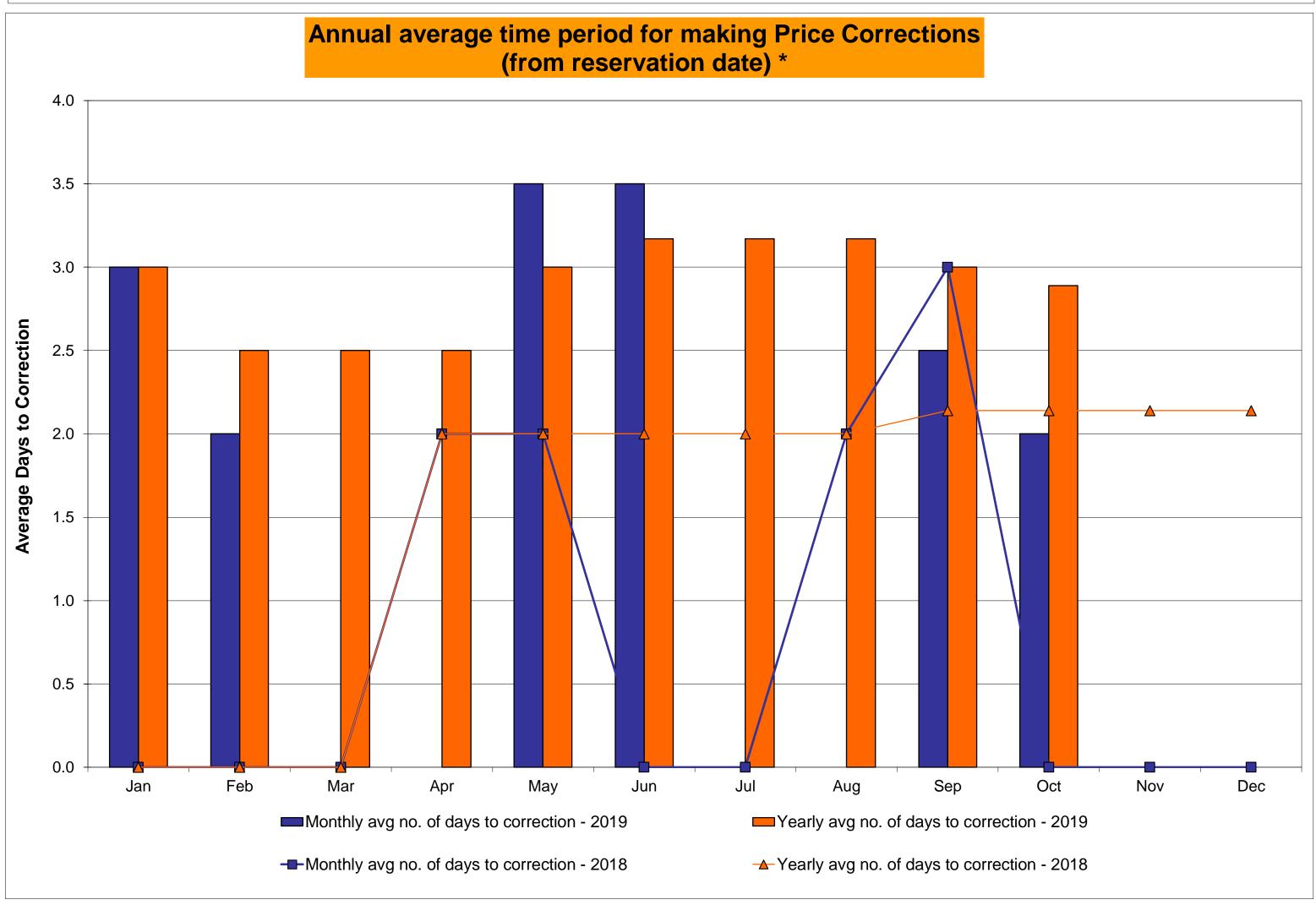


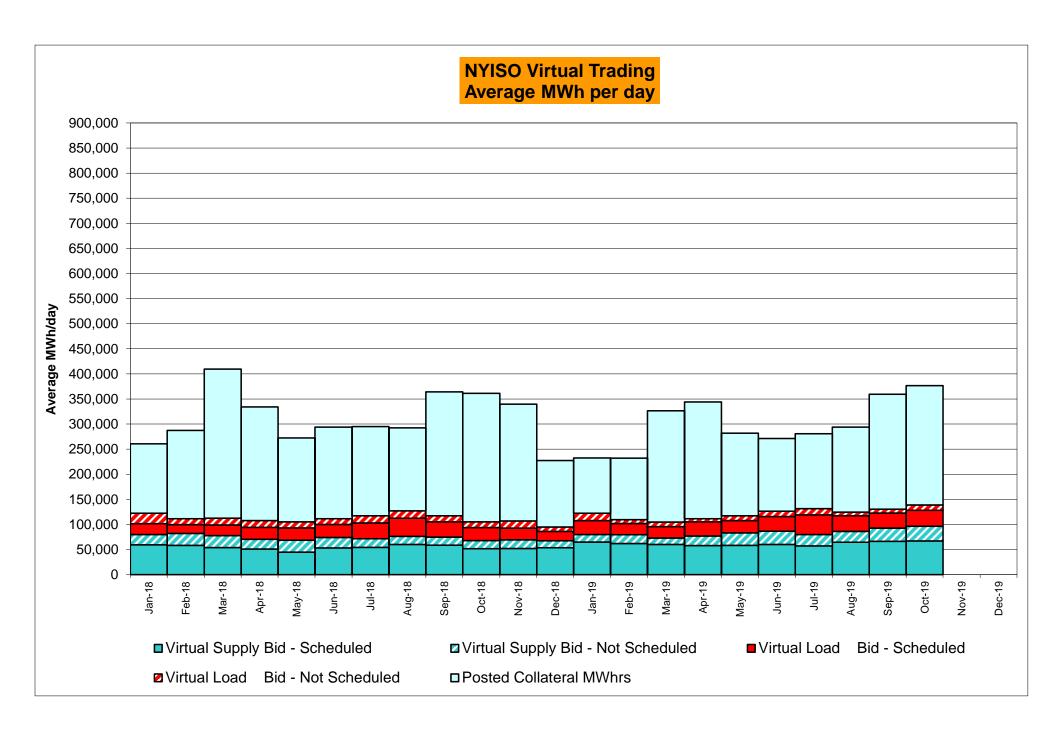
NYISO Real Time Price Correction Statistics

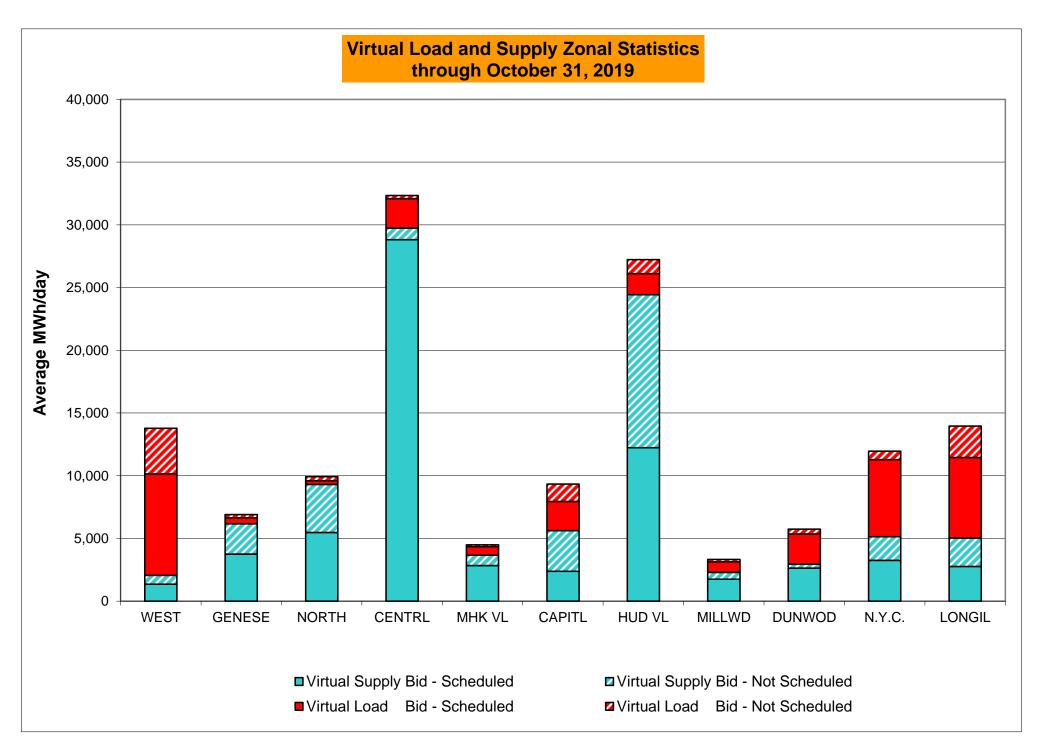
							Correcti						
<u>2019</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	1	1	0	0	3	2	0	0	1	0		
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744		
% of hours with corrections	in the month	0.13%	0.15%	0.00%	0.00%	0.40%	0.28%	0.00%	0.00%	0.14%	0.00%		
% of hours with corrections	year-to-date	0.13%	0.14%	0.09%	0.07%	0.14%	0.16%	0.14%	0.12%	0.12%	0.11%		
Interval Corrections													_
Number of intervals corrected	in the month	2	3	0	0	5	7	0	0	9	0		
Number of intervals	in the month	9,071	8,131	9,008	8,750	9,033	8,863	9,243	9,048	8,820	308		
% of intervals corrected	in the month	0.02%	0.04%	0.00%	0.00%	0.06%	0.08%	0.00%	0.00%	0.10%	0.00%		
% of intervals corrected	year-to-date	0.02%	0.03%	0.02%	0.01%	0.02%	0.03%	0.03%	0.02%	0.03%	0.03%		
Hours Reserved													
Number of hours reserved	in the month	7	10	8	3	9	12	14	12	19	0		
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744		
% of hours reserved	in the month	0.94%	1.49%	1.08%	0.42%	1.21%	1.67%	1.88%	1.61%	2.64%	0.00%		
% of hours reserved	year-to-date	0.94%	1.20%	1.16%	0.97%	1.02%	1.13%	1.24%	1.29%	1.43%	1.29%		
Days to Correction *	,												
Avg. number of days to correction	in the month	3.00	2.00	0.00	0.00	3.50	3.50	0.00	0.00	2.50	2.00		
Avg. number of days to correction	year-to-date	3.00	2.50	2.50	2.50	3.00	3.17	3.17	3.17	3.00	2.89		
Days Without Corrections	,												
Days without corrections	in the month	30	27	31	30	29	28	31	31	28	1		
Days without corrections	year-to-date	30	57	88	118	147	175	206	237	265	266		
2018		January	February	March	April	May	.lune	.luly	August	September	October	November	December
2018 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
Hour Corrections	in the menth									<u>September</u>			
Hour Corrections Number of hours with corrections	in the month	0	0	0	4	3	0	0	2	1	0	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	0 672	0 743	4 720	3 744	0 720	0 744	2 744	1 720	0 744	0 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	0 672 0.00%	0 743 0.00%	4 720 0.56%	3 744 0.40%	0 720 0.00%	0 744 0.00%	2 744 0.27%	1 720 0.14%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month	0 744	0 672	0 743	4 720	3 744	0 720	0 744	2 744	1 720	0 744	0 721	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%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
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%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
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 9,021	0 672 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002	4 720 0.56% 0.14% 16 8,717	3 744 0.40% 0.19% 6 9,033	0 720 0.00% 0.16% 0 8,723	0 744 0.00% 0.14% 0 9,021	2 744 0.27% 0.15% 5 9,071	1 720 0.14% 0.15% 2 8,723	0 744 0.00% 0.14% 0 8,990	0 721 0.00% 0.12% 0 8,763	0 744 0.00% 0.11% 0 8,993
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%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
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	0 744 0.00% 0.00% 0 9,021	0 672 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002	4 720 0.56% 0.14% 16 8,717	3 744 0.40% 0.19% 6 9,033	0 720 0.00% 0.16% 0 8,723	0 744 0.00% 0.14% 0 9,021	2 744 0.27% 0.15% 5 9,071	1 720 0.14% 0.15% 2 8,723	0 744 0.00% 0.14% 0 8,990	0 721 0.00% 0.12% 0 8,763	0 744 0.00% 0.11% 0 8,993
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 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00%
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 Wors Reserved Number of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
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 Wors Reserved Number of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
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	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 9,021 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%
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 Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%

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









Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2019 Virtual Load Bid Virtual Load Bid **Virtual Supply Bid** Virtual Load Bid **Virtual Supply Bid Virtual Supply Bid** Not Not Not Not Not Not Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Scheduled Scheduled Scheduled Scheduled Zone Zone Zone Date MHK VL DUNWOD **WEST** Jan-19 9,007 5,211 1,609 797 Jan-19 1,171 117 1,965 471 Jan-19 1,370 798 2,651 203 Feb-19 6,628 2,000 1,397 921 Feb-19 872 75 1,709 596 Feb-19 1,064 494 3,273 259 Mar-19 5,264 2.548 1,107 569 Mar-19 1,275 113 2.208 386 Mar-19 1,159 471 3.571 199 9,744 2,589 461 43 1,446 3,278 228 Apr-19 721 Apr-19 843 1,904 331 Apr-19 125 818 32 2,337 2,999 255 May-19 7,022 5,165 783 May-19 527 489 May-19 1,459 153 Jun-19 8,695 6,210 1,183 1,106 577 98 1,731 582 Jun-19 3,157 426 2,365 290 Jun-19 Jul-19 9.264 5,278 1,201 856 Jul-19 775 142 3,111 336 Jul-19 4,623 673 1,967 276 7,441 562 629 209 4,439 3,509 624 2,470 295 Aug-19 1,910 1,129 Aug-19 643 Aug-19 Sep-19 9,479 3,557 816 489 575 124 3,343 702 Sep-19 509 3,179 482 Sep-19 2,201 Oct-19 8.094 3,641 1,346 707 Oct-19 684 138 2.843 817 Oct-19 2.416 379 2.640 305 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 GENESE 527 CAPITL N.Y.C. Jan-19 153 3,560 529 Jan-19 3,042 962 1,550 1,424 Jan-19 3,665 3,061 2,599 1,366 Feb-19 896 66 3.776 520 Feb-19 2.591 485 1.851 1.756 Feb-19 2.545 2.025 2.248 1.648 Mar-19 987 241 3,224 432 Mar-19 383 Mar-19 3,746 2,432 968 2,012 2,004 1,666 1,774 Apr-19 Apr-19 808 4,479 475 232 2,869 4,012 83 Apr-19 1,585 2,102 1,111 3,431 656 May-19 343 171 2,680 1,446 May-19 1,438 362 3,006 2,580 May-19 4,207 977 3,304 4,320 4,222 Jun-19 407 146 4.498 2,552 Jun-19 741 206 3,393 Jun-19 5,271 930 2.404 1,778 Jul-19 503 215 2,807 1,125 Jul-19 802 243 3,884 3,155 Jul-19 10,542 1,697 1,247 1,418 469 232 7,395 2,521 204 4,508 1,496 531 3,710 2,237 Aug-19 852 1,675 Aug-19 Aug-19 Sep-19 441 115 4,913 2,636 Sep-19 1,034 202 2,322 2,270 Sep-19 4,877 604 2,960 1,867 464 2,323 Oct-19 3,252 Oct-19 263 3.748 2,423 Oct-19 1,382 2,376 3,249 6,135 685 1.884 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 NORTH 484 HUD VL 980 LONGIL 540 6.406 1,553 Jan-19 856 9.176 7,130 Jan-19 3.362 2,135 3.091 1.056 Jan-19 Feb-19 431 359 6,559 977 843 3,446 1,743 Feb-19 7,408 7,858 Feb-19 2,514 1,297 1,425 Mar-19 349 419 6,855 1,845 Mar-19 1,460 1,425 8,787 4,948 Mar-19 2,752 1,198 3,372 1,025 284 186 Apr-19 7,243 1,823 Apr-19 1,011 487 7,962 8,845 Apr-19 4,934 1,386 3,096 697 498 446 2,954 457 9,871 1,430 May-19 4,995 May-19 1,064 6,634 May-19 3,869 3,396 1,359 Jun-19 2,303 481 256 4,364 2,986 Jun-19 658 249 8,949 9,323 Jun-19 5,177 1,639 2,391 Jul-19 553 311 4,460 1,978 Jul-19 795 392 7,632 10,915 Jul-19 6,906 3,006 1,739 1,662 Aug-19 489 374 4,387 1,866 Aug-19 503 281 9.041 9,166 Aug-19 6,950 2,028 2,454 2,183 Sep-19 384 288 5,400 3,331 Sep-19 512 261 10,365 11,973 Sep-19 7,355 1,690 2,478 882 298 316 2,759 2,280 Oct-19 5,478 3,829 Oct-19 1,683 1,105 12,242 12,192 Oct-19 6,418 2,496 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 CENTRL Jan-19 3,795 374 30,145 507 MILLWD Jan-19 405 386 2,051 169 **NYISO** Jan-19 27,683 14,720 64,802 15,203 3,059 Feb-19 Feb-19 123 29,111 609 540 138 1,311 247 22,118 7,905 62,089 17,582 Feb-19 Mar-19 3,411 332 25,195 505 1,404 Mar-19 22,918 8,993 60,159 12,736 542 Mar-19 89 155 22,748 215 28,247 Apr-19 3.475 150 453 Apr-19 686 1,636 371 Apr-19 6.153 58.038 18.80 May-19 3,220 195 26,474 474 1,687 505 May-19 24,261 9,615 58,331 25,03 May-19 613 226 Jun-19 3,635 241 26,799 832 Jun-19 495 182 1,940 506 Jun-19 29,295 10,583 60,017 26,481 209 780 452 22,833 Jul-19 3,307 27,998 642 Jul-19 1,156 470 Jul-19 38,851 12,618 57,203 Aug-19 2,794 208 28,343 772 Aug-19 464 269 1,657 595 Aug-19 31,173 7,192 64,660 21,491 Sep-19 2,746 148 29,153 958 Sep-19 499 119 1,473 764 Sep-19 30,103 7,618 66,405 26,355 2.345 Oct-19 253 28,821 924 Oct-19 841 181 1,754 542 Oct-19 31,701 10,839 67,260 29,153

Nov-19

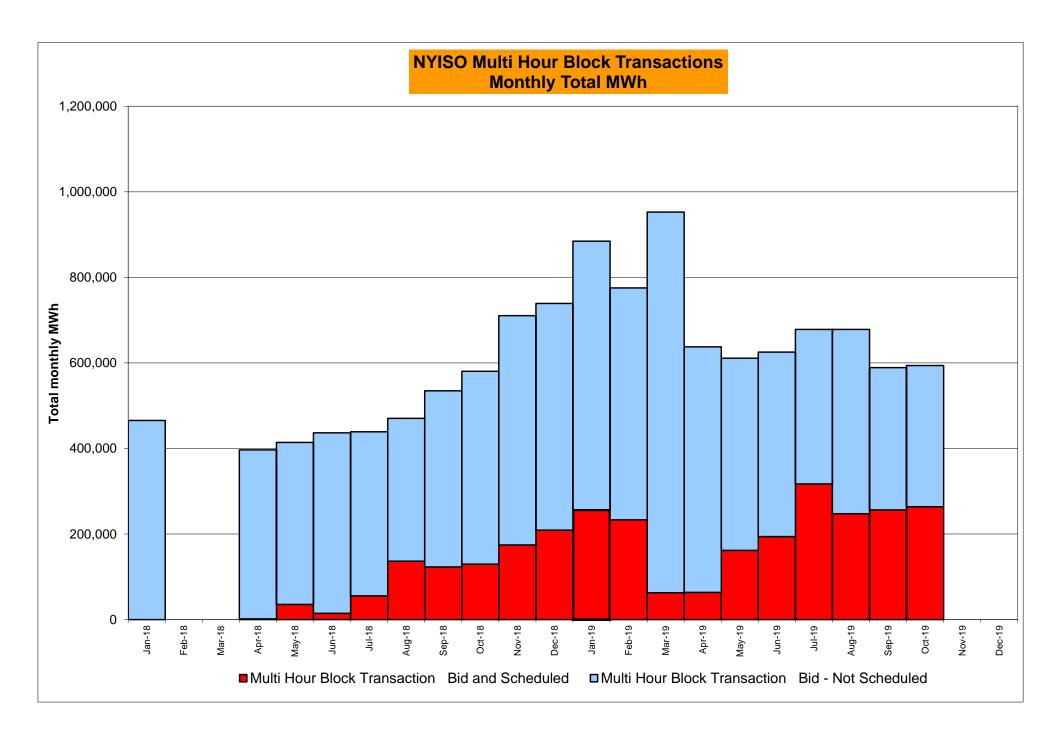
Dec-19

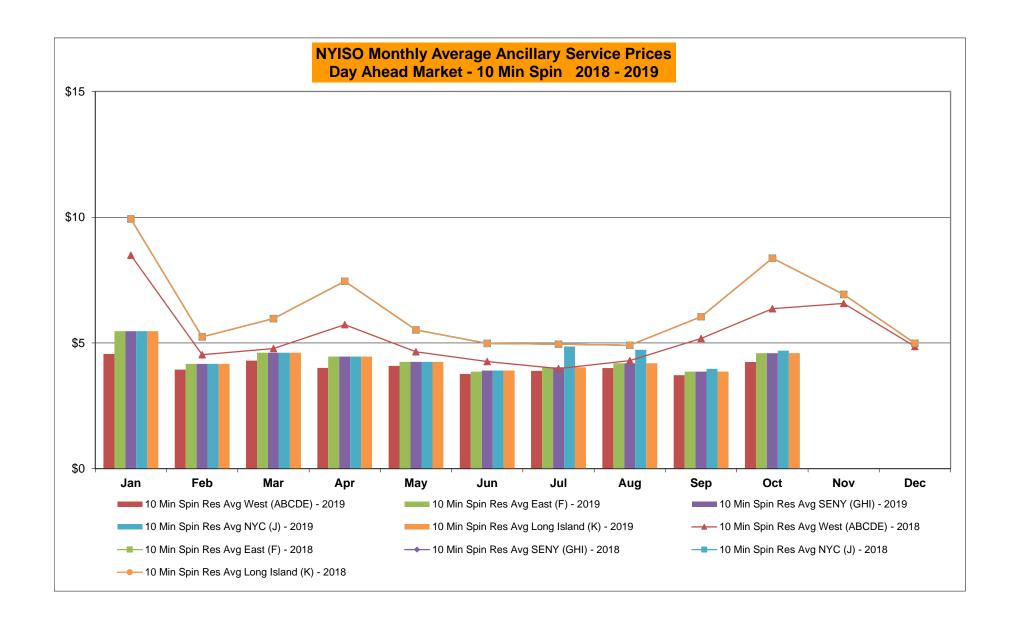
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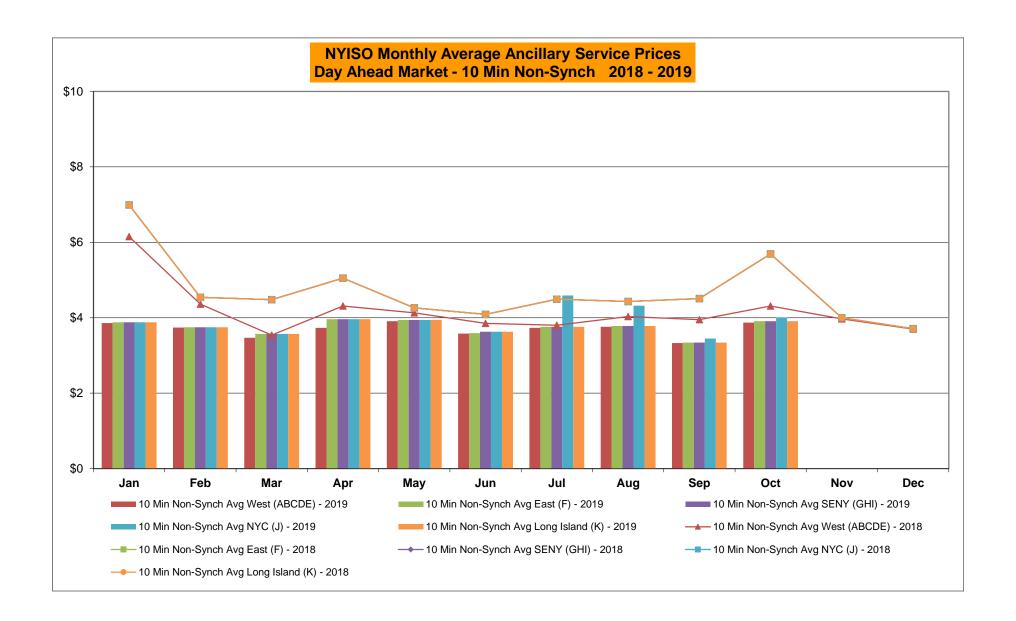
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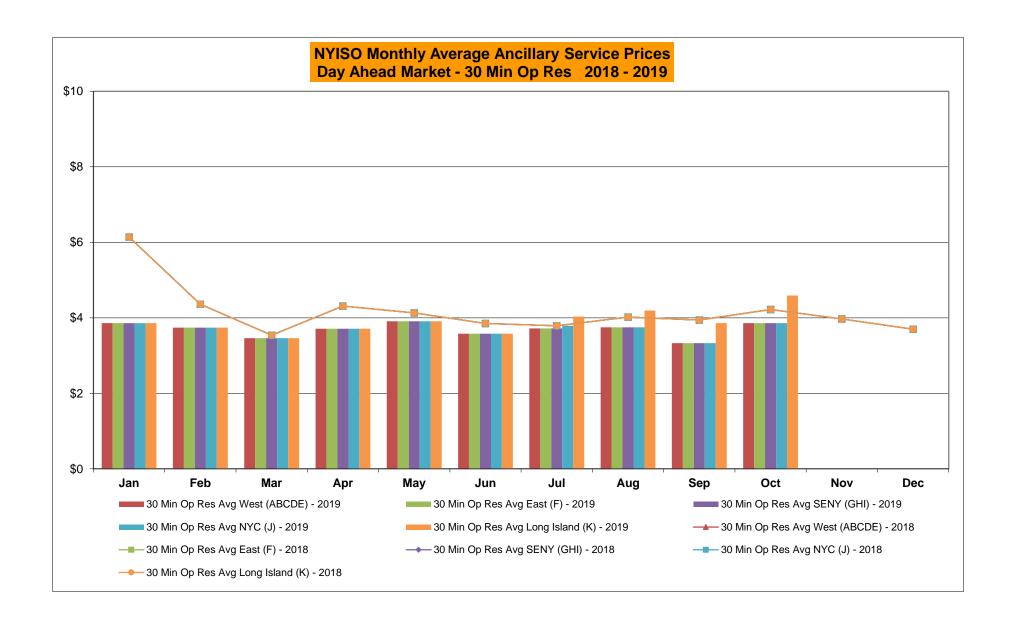
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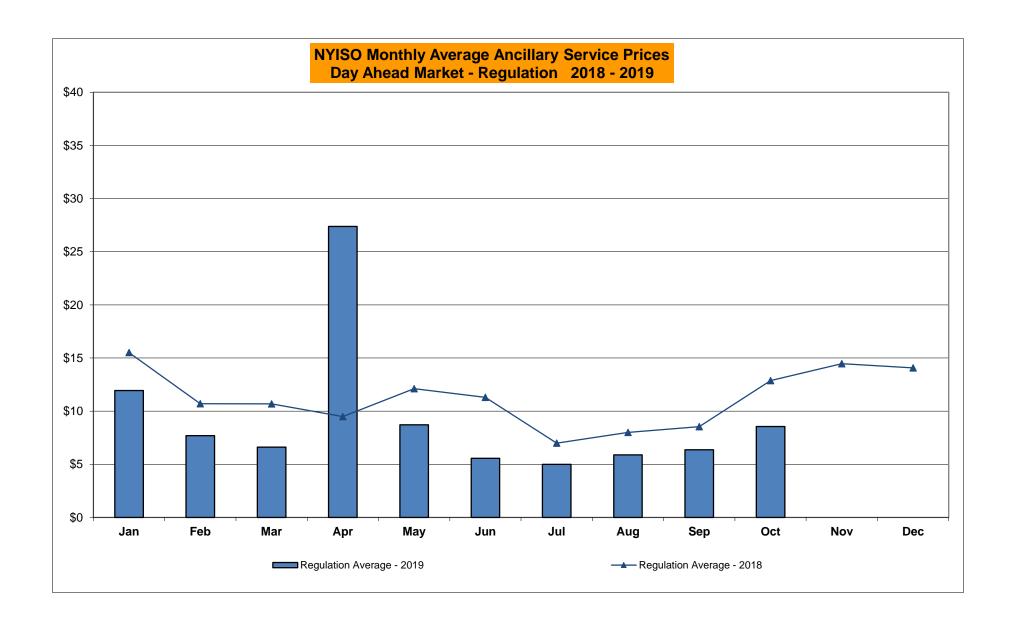
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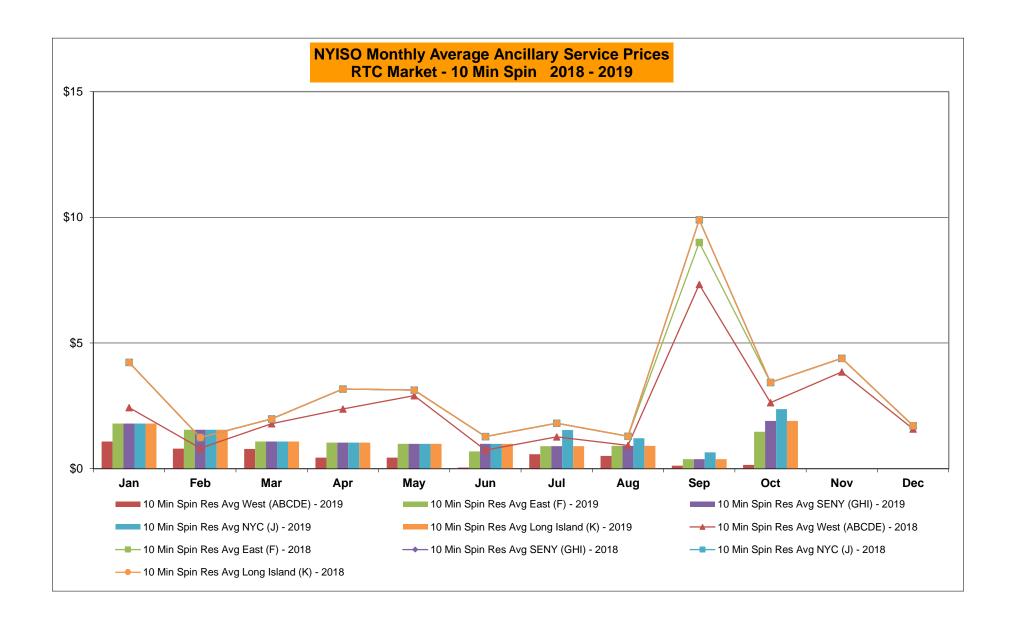


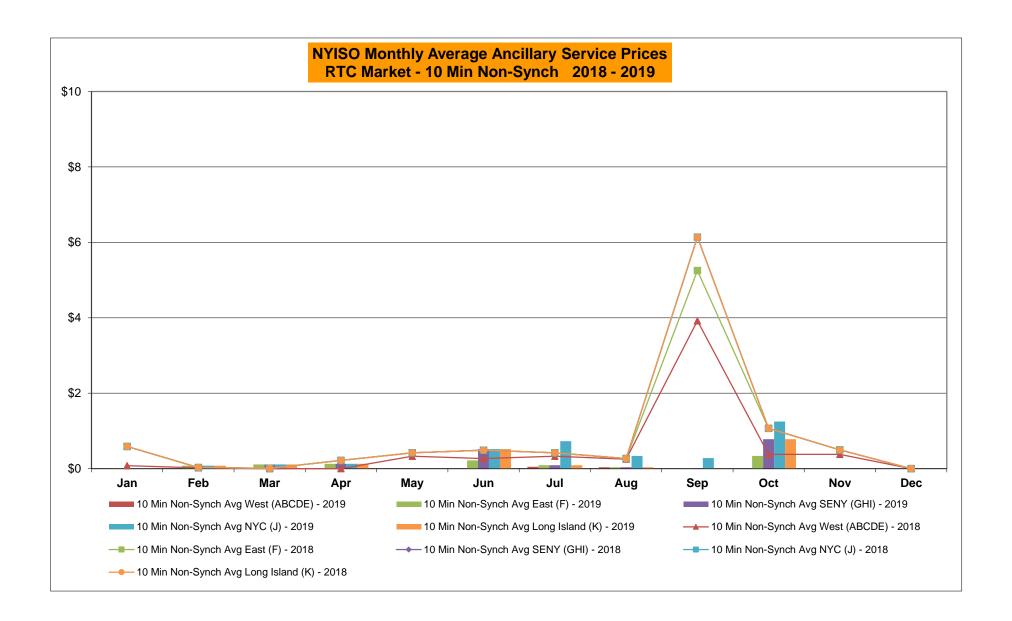


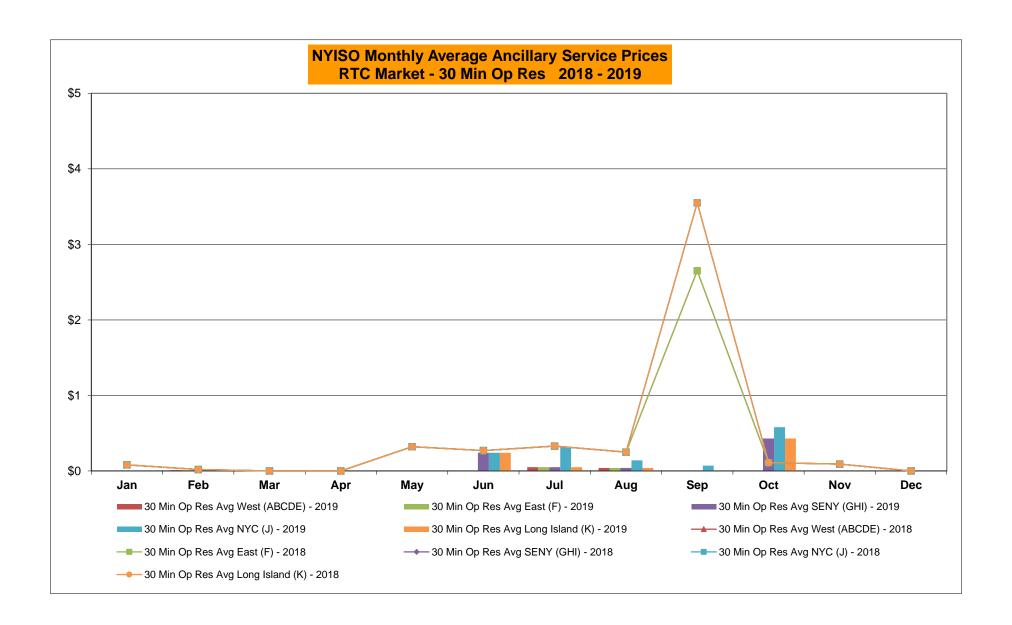


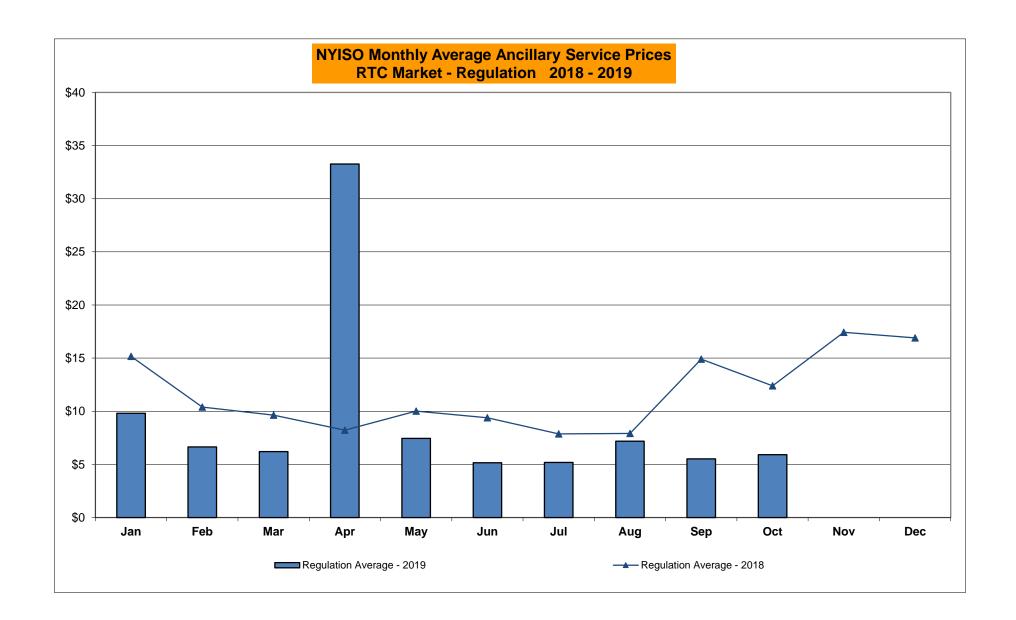


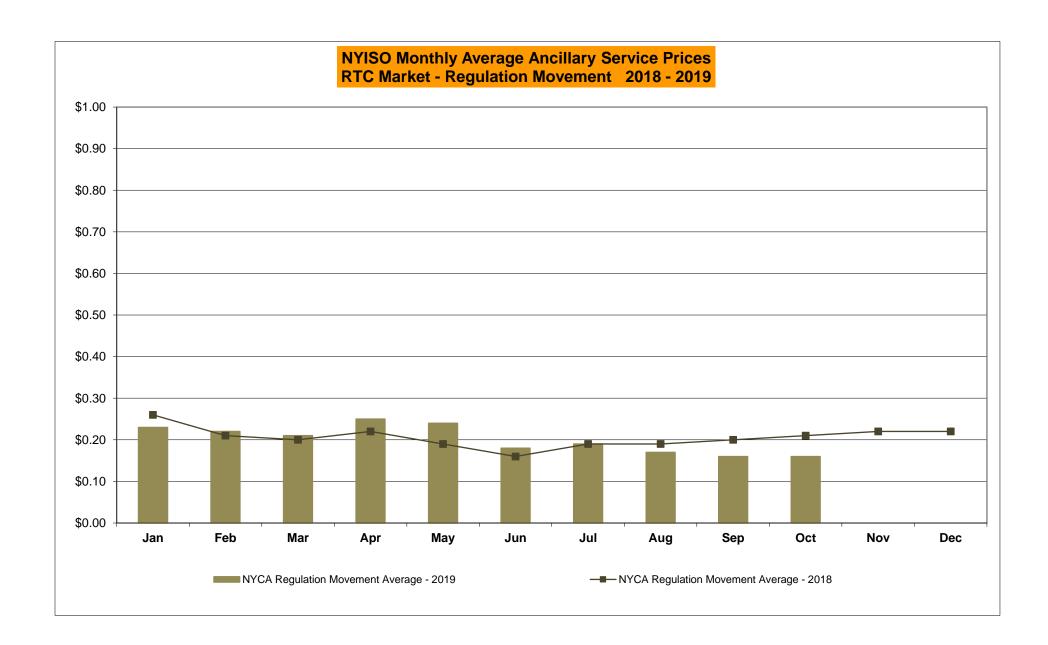


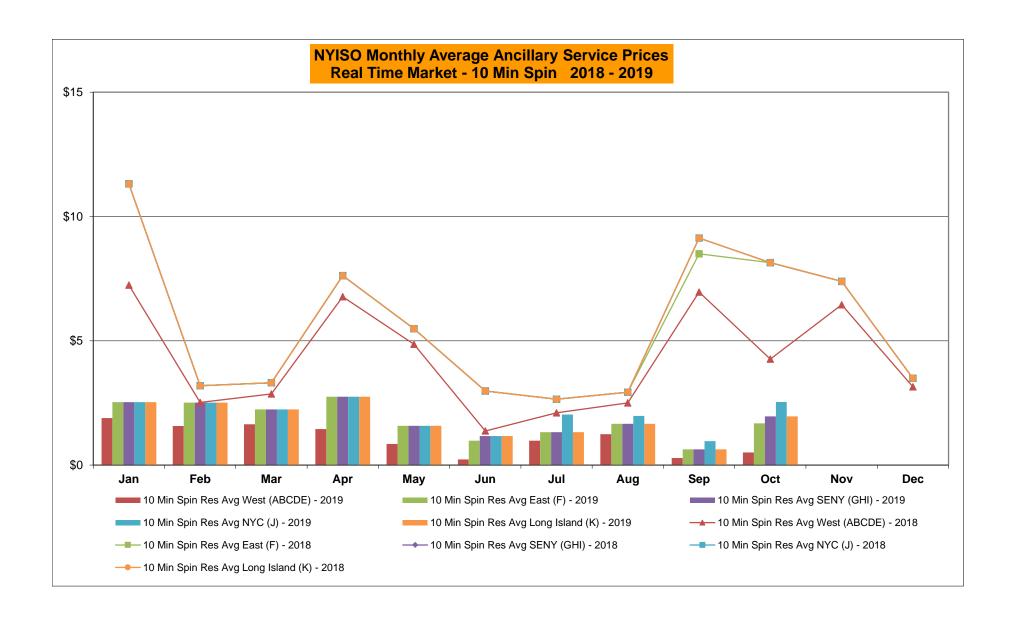


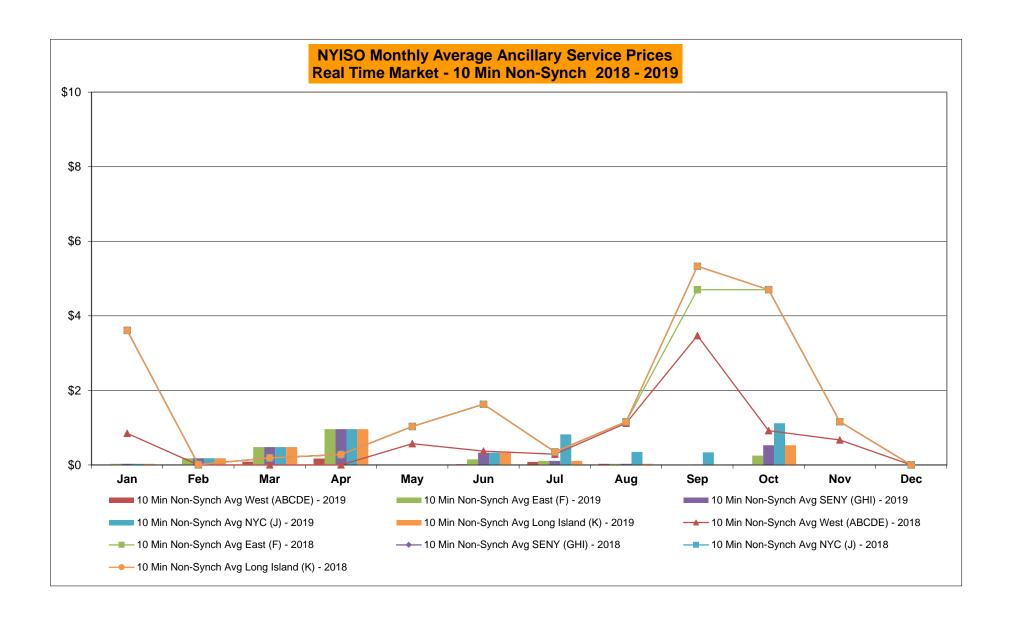


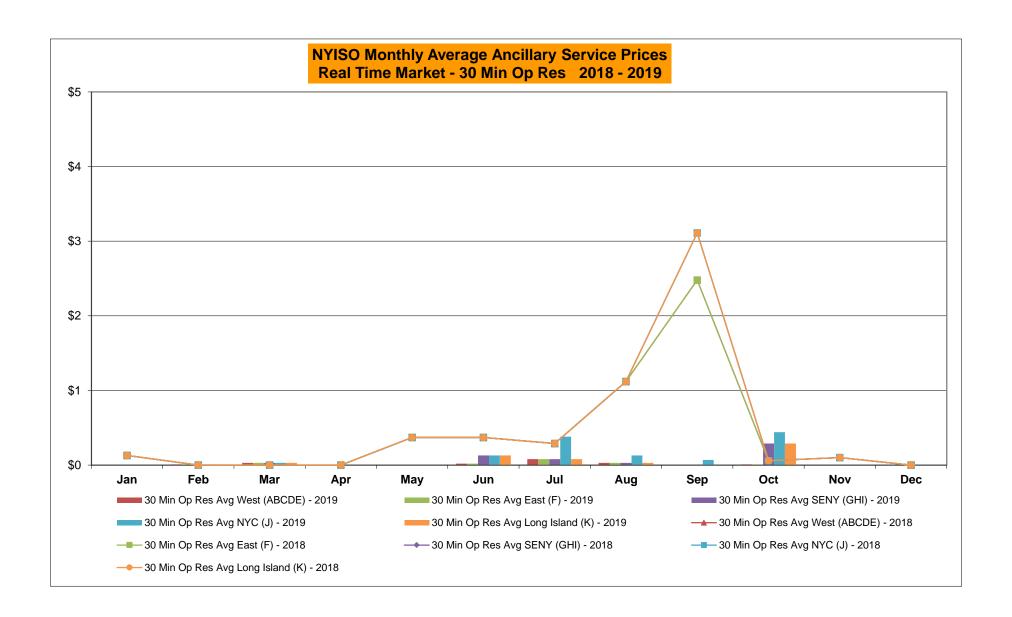


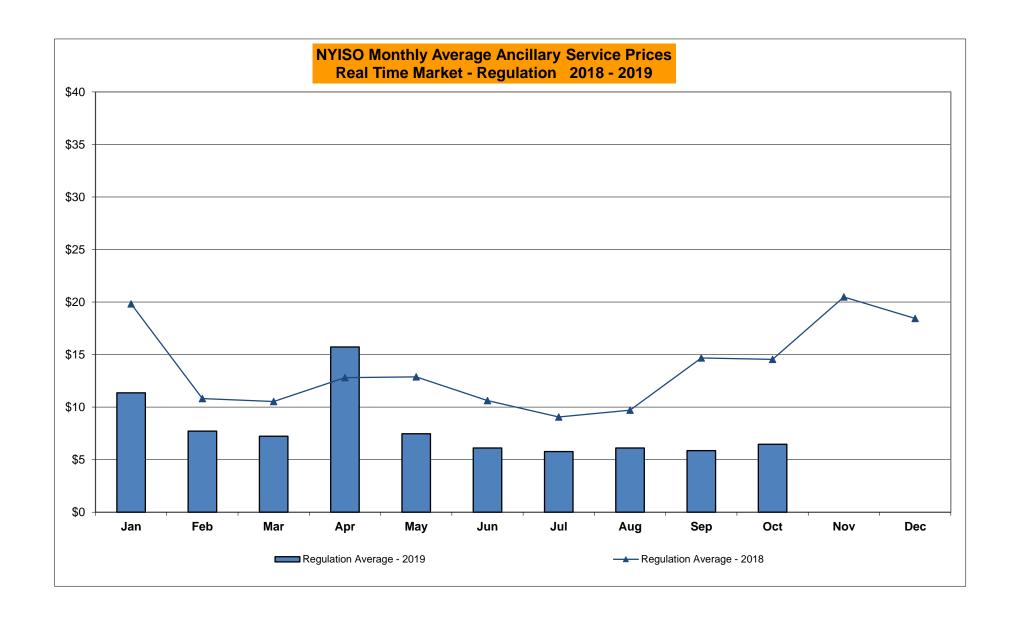


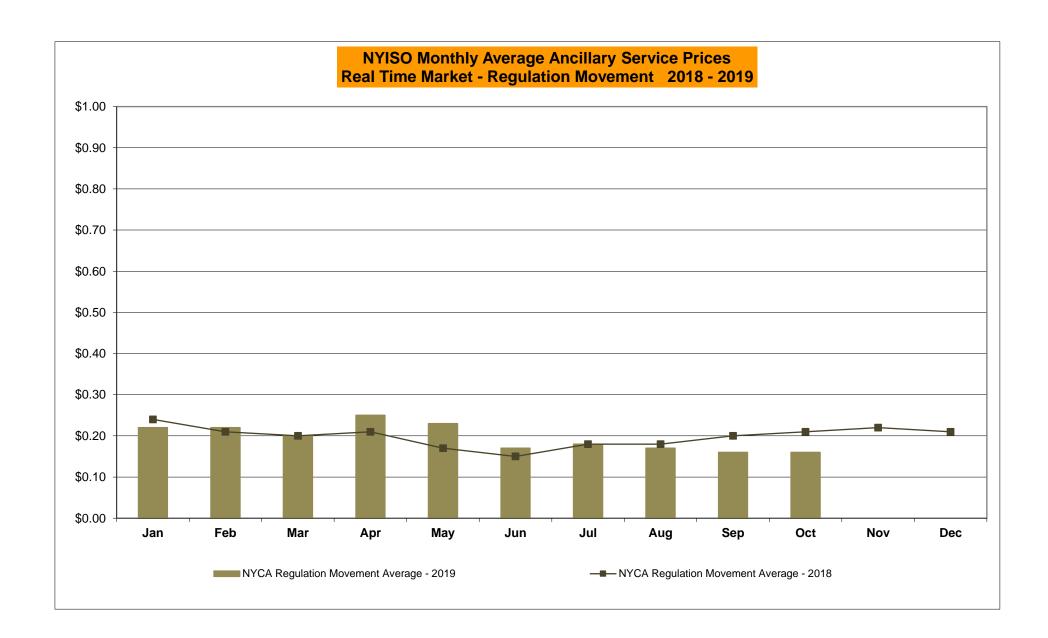












NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - DAM

<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market	•				-		-	_				
10 Min Spin Long Island (K)	5.47	4.17	4.61	4.46	4.25	3.90	4.03	4.19	3.86	4.59		
10 Min Spin NYC (J)	5.47	4.17	4.61	4.46	4.25	3.90	4.86	4.73	3.97	4.69		
10 Min Spin SENY (GHI)	5.47	4.17	4.61	4.46	4.25	3.90	4.03	4.19	3.86	4.59		
10 Min Spin East (F)	5.47	4.17	4.61	4.46	4.25	3.86	4.03	4.19	3.86	4.59		
10 Min Spin West (ABCDE)	4.56	3.94	4.30	4.01	4.09	3.77	3.89	4.00	3.72	4.24		
10 Min Non Synch Long Island (K)	3.88	3.75	3.57	3.96	3.94	3.63	3.76	3.78	3.34	3.91		
10 Min Non Synch NYC (J)	3.88	3.75	3.57	3.96	3.94	3.63	4.59	4.32	3.45	4.01		
10 Min Non Synch SENY (GHI)	3.88	3.75	3.57	3.96	3.94	3.63	3.76	3.78	3.34	3.91		
10 Min Non Synch East (F)	3.88	3.75	3.57	3.96	3.94	3.59	3.76	3.78	3.34	3.91		
10 Min Non Synch West (ABCDE)	3.86	3.74	3.47	3.73	3.91	3.58	3.73	3.76	3.33	3.87		
30 Min Long Island (K)	3.86	3.74	3.46	3.71	3.91	3.58	3.72	3.75	3.33	3.86		
30 Min NYC (J)	3.86	3.74	3.46	3.71	3.91	3.58	3.79	3.75	3.33	3.86		
30 Min SENY (GHI)	3.86	3.74	3.46	3.71	3.91	3.58	3.72	3.75	3.33	3.86		
30 Min East (F)	3.86	3.74	3.46	3.71	3.91	3.58	3.72	3.75	3.33	3.86		
30 Min West (ABCDE)	3.86	3.74	3.46	3.71	3.91	3.58	3.72	3.75	3.33	3.86		
Regulation	11.94	7.69	6.62	27.38	8.71	5.57	4.99	5.89	6.36	8.55		
<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
Day Ahead Market												
10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52	4.98	4.95	4.91	6.04	8.37	6.93	4.99
10 Min Spin East (F)	9.93	5.24	5.97	7.45	5.52	4.98	4.95	4.91	6.04	8.37	6.93	4.99
10 Min Spin West (ABCDE)	8.49	4.53	4.78	5.73	4.65	4.26	3.98	4.30	5.18	6.36	6.57	4.86
10 Min Non Synch SENY (GHIJK)	6.99	4.54	4.48	5.05	4.26	4.09	4.49	4.43	4.51	5.69	4.00	3.71
10 Min Non Synch East (F)	6.99	4.54	4.48	5.05	4.26	4.09	4.49	4.43	4.51	5.69	4.00	3.71
10 Min Non Synch West (ABCDE)	6.15	4.36	3.54	4.31	4.13	3.85	3.80	4.03	3.95	4.31	3.97	3.70
30 Min SENY (GHIJK)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
30 Min East (F)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
30 Min West (ABCDE)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
Regulation	15.51	10.70	10.68	9.49	12.11	11.30	6.99	8.00	8.54	12.88	14.47	14.07

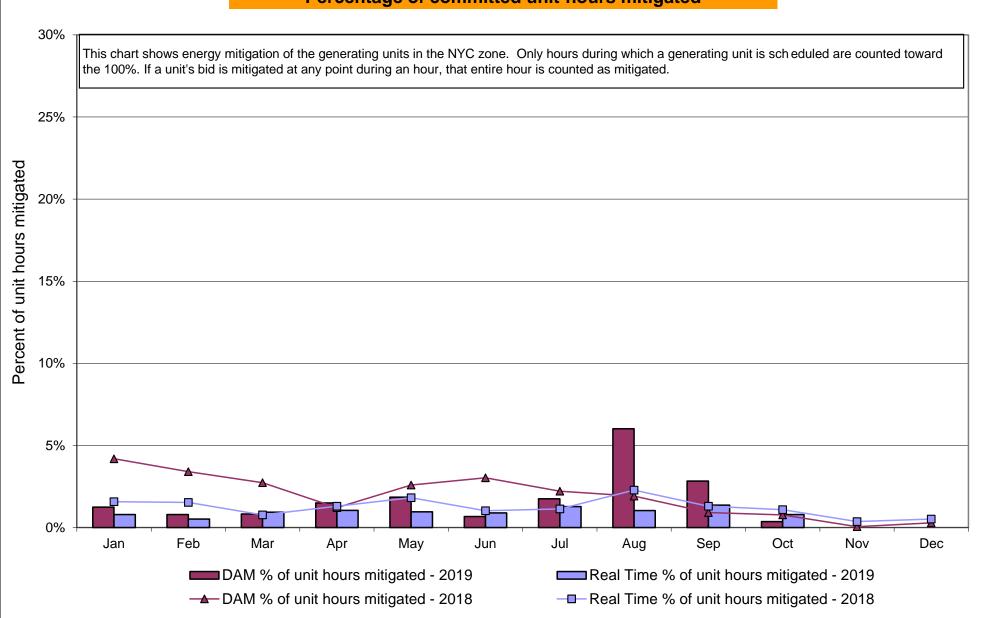
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RTC

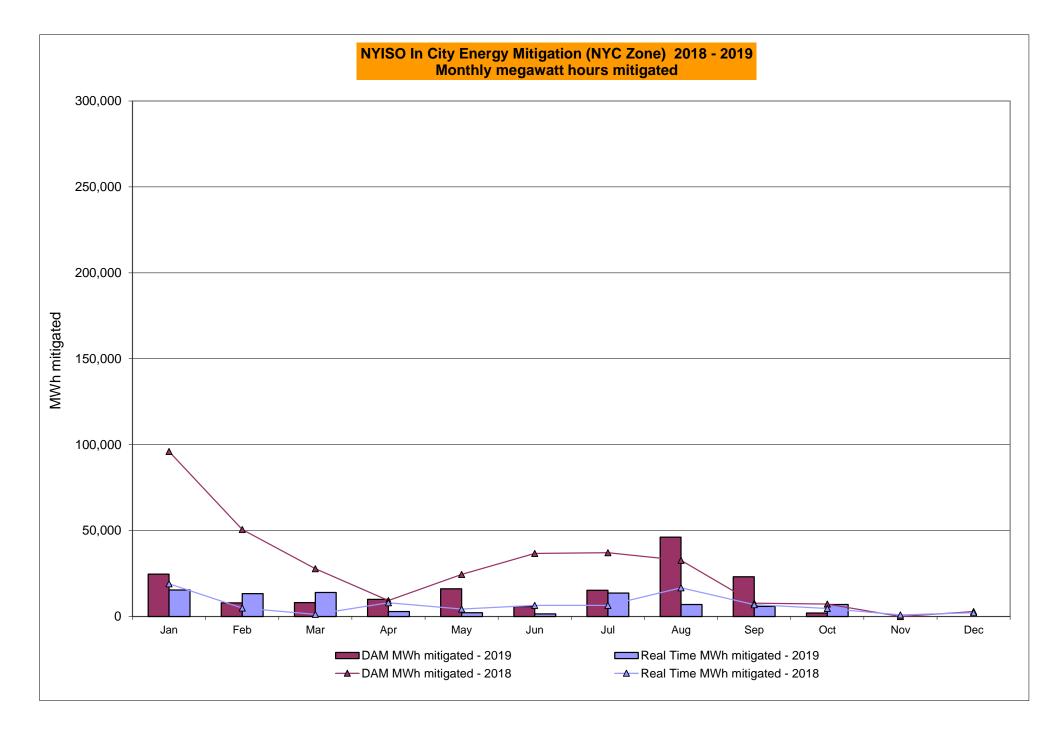
<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
RTC Market												
10 Min Spin Long Island (K)	1.80	1.55	1.08	1.04	0.99	0.99	0.90	0.91	0.38	1.90		
10 Min Spin NYC (J)	1.80	1.55	1.08	1.04	0.99	0.99	1.54	1.21	0.65	2.37		
10 Min Spin SENY (GHI)	1.80	1.55	1.08	1.04	0.99	0.99	0.90	0.91	0.38	1.90		
10 Min Spin East (F)	1.80	1.55	1.08	1.04	0.99	0.69	0.90	0.91	0.38	1.47		
10 Min Spin West (ABCDE)	1.08	0.80	0.79	0.44	0.44	0.05	0.58	0.51	0.12	0.15		
10 Min Non Synch Long Island (K)	0.01	0.08	0.11	0.13	0.00	0.52	0.09	0.04	0.01	0.78		
10 Min Non Synch NYC (J)	0.01	0.08	0.11	0.13	0.00	0.52	0.73	0.34	0.28	1.25		
10 Min Non Synch SENY (GHI)	0.01	0.08	0.11	0.13	0.00	0.52	0.09	0.04	0.01	0.78		
10 Min Non Synch East (F)	0.01	0.08	0.11	0.13	0.00	0.22	0.09	0.04	0.01	0.34		
10 Min Non Synch West (ABCDE)	0.00	0.01	0.01	0.00	0.00	0.00	0.05	0.04	0.00	0.00		
30 Min Long Island (K)	0.00	0.01	0.01	0.00	0.00	0.24	0.05	0.04	0.00	0.43		
30 Min NYC (J)	0.00	0.01	0.01	0.00	0.00	0.24	0.31	0.14	0.07	0.58		
30 Min SENY (GHI)	0.00	0.01	0.01	0.00	0.00	0.24	0.05	0.04	0.00	0.43		
30 Min East (F)	0.00	0.01	0.01	0.00	0.00	0.00	0.05	0.04	0.00	0.00		
30 Min West (ABCDE)	0.00	0.01	0.01	0.00	0.00	0.00	0.05	0.04	0.00	0.00		
Regulation	9.81	6.64	6.21	33.26	7.45	5.16	5.19	7.19	5.52	5.91		
NYCA Regulation Movement	0.23	0.22	0.21	0.25	0.24	0.18	0.19	0.17	0.16	0.16		
<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	<u>December</u>
RTC Market												
10 Min Spin SENY (GHIJK)	4.23	1.24	1.98	3.17	3.13	1.28	1.81	1.29	9.90	3.43	4.39	1.71
10 Min Spin East (F)	4.23	1.24	1.98	3.17	3.13	1.28	1.81	1.29	9.00	3.43	4.39	1.71
10 Min Spin West (ABCDE)	2.43	0.82	1.79	2.38	2.91	0.74	1.27	0.93	7.33	2.63	3.85	1.58
10 Min Non Synch SENY (GHIJK)	0.59	0.03	0.01	0.22	0.42	0.49	0.42	0.27	6.14	1.07	0.50	0.00
10 Min Non Synch East (F)	0.59	0.03	0.01	0.22	0.42	0.49	0.42	0.27	5.25	1.07	0.50	0.00
10 Min Non Synch West (ABCDE)	0.08	0.02	0.00	0.00	0.33	0.27	0.33	0.25	3.92	0.38	0.38	0.00
30 Min SENY (GHIJK)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	3.55	0.11	0.09	0.00
30 Min East (F)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	2.65	0.11	0.09	0.00
30 Min West (ABCDE)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	2.65	0.11	0.09	0.00
Regulation	15.17	10.40	9.63	8.22	10.01	9.39	7.87	7.92	14.90	12.40	17.43	16.90
NYCA Regulation Movement	0.26	0.21	0.20	0.22	0.19	0.16	0.19	0.19	0.20	0.21	0.22	0.22

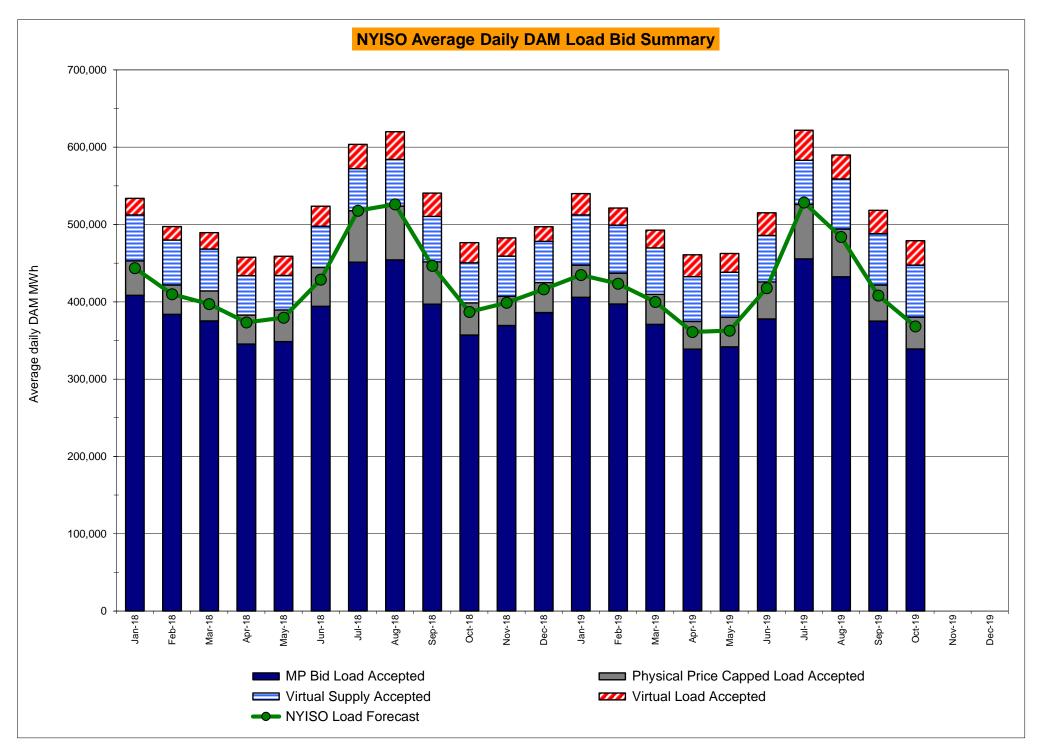
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

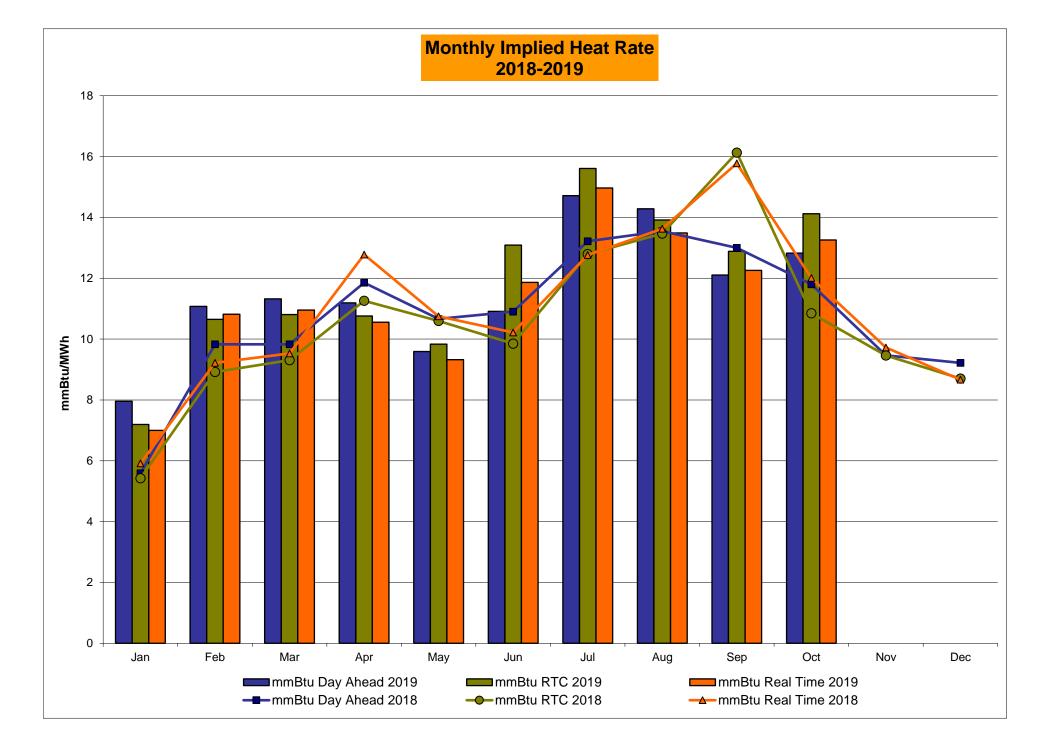
<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Real Time Market												
10 Min Spin Long Island (K)	2.53	2.51	2.24	2.75	1.58	1.17	1.32	1.66	0.63	1.96		
10 Min Spin NYC (J)	2.53	2.51	2.24	2.75	1.58	1.17	2.03	1.98	0.96	2.54		
10 Min Spin SENY (GHI)	2.53	2.51	2.24	2.75	1.58	1.17	1.32	1.66	0.63	1.96		
10 Min Spin East (F)	2.53	2.51	2.24	2.75	1.58	0.98	1.32	1.66	0.63	1.68		
10 Min Spin West (ABCDE)	1.89	1.57	1.64	1.45	0.85	0.23	0.98	1.24	0.28	0.51		
10 Min Non Synch Long Island (K)	0.03	0.18	0.48	0.96	0.00	0.33	0.11	0.03	0.01	0.53		
10 Min Non Synch NYC (J)	0.03	0.18	0.48	0.96	0.00	0.33	0.82	0.35	0.34	1.12		
10 Min Non Synch SENY (GHI)	0.03	0.18	0.48	0.96	0.00	0.33	0.11	0.03	0.01	0.53		
10 Min Non Synch East (F)	0.03	0.18	0.48	0.96	0.00	0.15	0.11	0.03	0.01	0.25		
10 Min Non Synch West (ABCDE)	0.00	0.01	0.09	0.17	0.00	0.02	0.08	0.03	0.00	0.01		
30 Min Long Island (K)	0.00	0.01	0.03	0.00	0.00	0.13	0.08	0.03	0.00	0.29		
30 Min NYC (J)	0.00	0.01	0.03	0.00	0.00	0.13	0.38	0.13	0.07	0.44		
30 Min SENY (GHI)	0.00	0.01	0.03	0.00	0.00	0.13	0.08	0.03	0.00	0.29		
30 Min East (F)	0.00	0.01	0.03	0.00	0.00	0.02	0.08	0.03	0.00	0.01		
30 Min West (ABCDE)	0.00	0.01	0.03	0.00	0.00	0.02	0.08	0.03	0.00	0.01		
Regulation	11.36	7.72	7.23	15.73	7.47	6.11	5.77	6.11	5.86	6.47		
NYCA Regulation Movement	0.22	0.22	0.20	0.25	0.23	0.17	0.18	0.17	0.16	0.16		
<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	<u>December</u>
Real Time Market												
10 Min Spin SENY (GHIJK)	11.31	3.19	3.31	7.62	5.48	2.98	2.65	2.93	9.13	8.14	7.39	3.49
10 Min Spin East (F)	11.31	3.19	3.31	7.62	5.48	2.98	2.65	2.93	8.50	8.14	7.39	3.49
10 Min Spin West (ABCDE)	7.24	2.52	2.86	6.77	4.86	1.37	2.10	2.50	6.96	4.26	6.45	3.15
10 Min Non Synch SENY (GHIJK)	3.61	0.01	0.19	0.28	1.03	1.63	0.35	1.16	5.33	4.70	1.16	0.00
10 Min Non Synch East (F)	3.61	0.01	0.19	0.28	1.03	1.63	0.35	1.16	4.70	4.70	1.16	0.00
10 Min Non Synch West (ABCDE)	0.85	0.00	0.00	0.00	0.57	0.37	0.29	1.12	3.47	0.92	0.67	0.00
30 Min SENY (GHIJK)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	3.11	0.06	0.10	0.00
30 Min East (F)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	2.48	0.06	0.10	0.00
30 Min West (ABCDE)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	2.48	0.06	0.10	0.00
Regulation	19.82	10.82	10.54	12.80	12.88	10.62	9.06	9.71	14.67	14.54	20.48	18.44
NYCA Regulation Movement	0.24	0.21	0.20	0.21	0.17	0.15	0.18	0.18	0.20	0.21	0.22	0.21

NYISO In City Energy Mitigation - AMP (NYC Zone) 2018 - 2019 Percentage of committed unit-hours mitigated

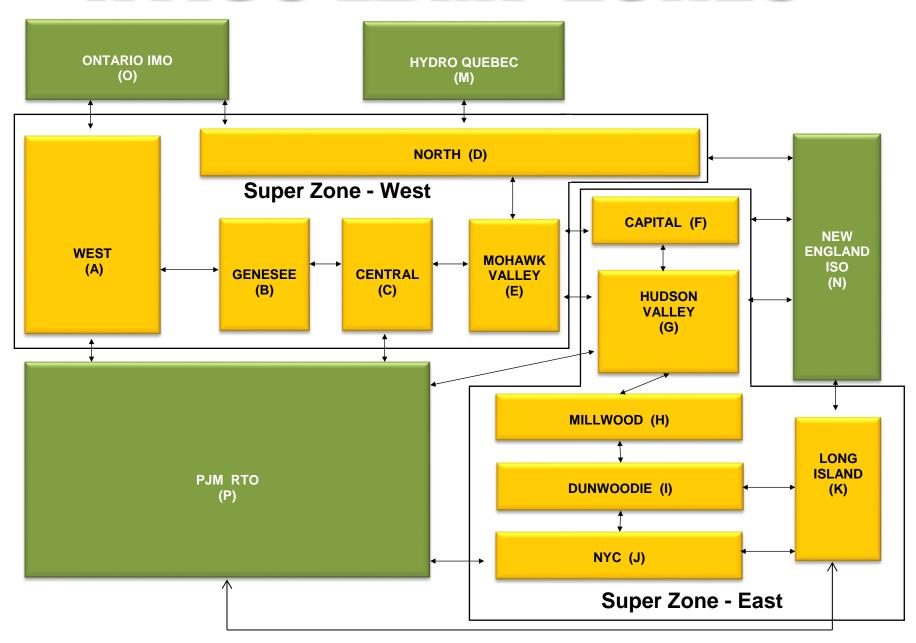








NYISO LBMP ZONES



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Billing Codes for Chart C

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

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Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system



