NYISO CEO/COO Report

Rob Fernandez

Interim President & Chief Executive Officer

Rick Gonzales

Senior Vice President & Chief Operating Officer

Management Committee Meeting:

December 19, 2018 Rensselaer, NY



NYISO CEO/COO Report

CEO Report

COO Report

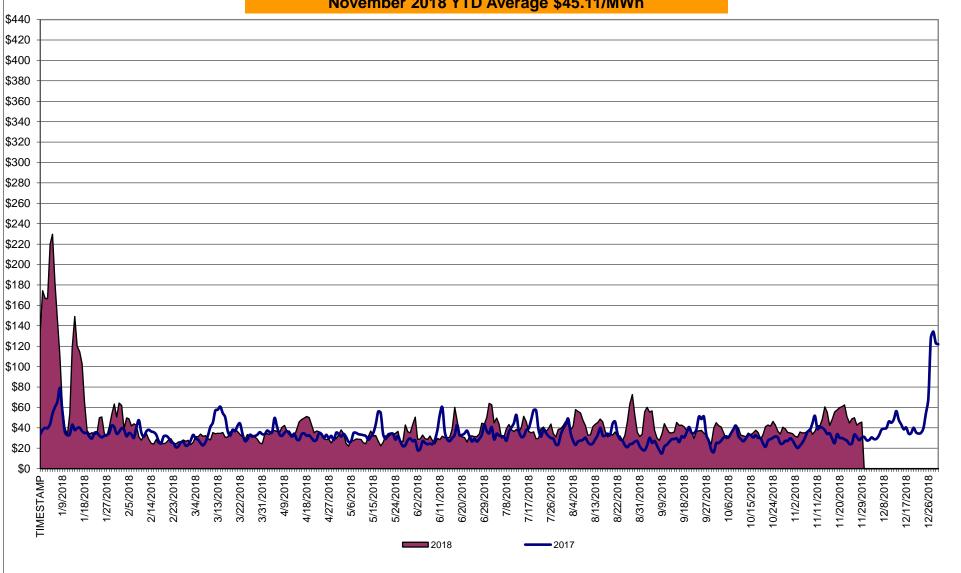
- Market Performance Highlights For Information Only
- Operations Performance Metrics Monthly Report



Market Performance Highlights November 2018

- LBMP for November is \$43.15/MWh; higher than \$35.85/MWh in October 2018 and \$30.60/MWh in November 2017.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to October.
- November 2018 average year-to-date monthly cost of \$45.11/MWh is a 30% increase from \$34.72/MWh in November 2017.
- Average daily sendout is 411 GWh/day in November; higher than 399 GWh/day in October 2018 and higher than 403 GWh/day in November 2017.
- Natural gas prices were higher and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$4.23/MMBtu, up from \$2.91/MMBtu in October.
 - Natural gas prices are up 44.8% year-over-year.
 - Jet Kerosene Gulf Coast was \$14.50/MMBtu, down from \$16.65/MMBtu in October.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.72/MMBtu, down from \$16.66/MMBtu in October.
 - Distillate prices are up 9.3% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.27)/MWh; higher than (\$0.30)/MWh in October.
 - Local Reliability Share is \$0.25/MWh, lower than \$0.27/MWh in October.
 - Statewide Share is (\$0.52)/MWh, higher than (\$0.56)/MWh in October.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than October.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)* 2017 Annual Average \$36.56/MWh November 2017 YTD Average \$34.80/MWh November 2018 YTD Average \$45.11/MWh

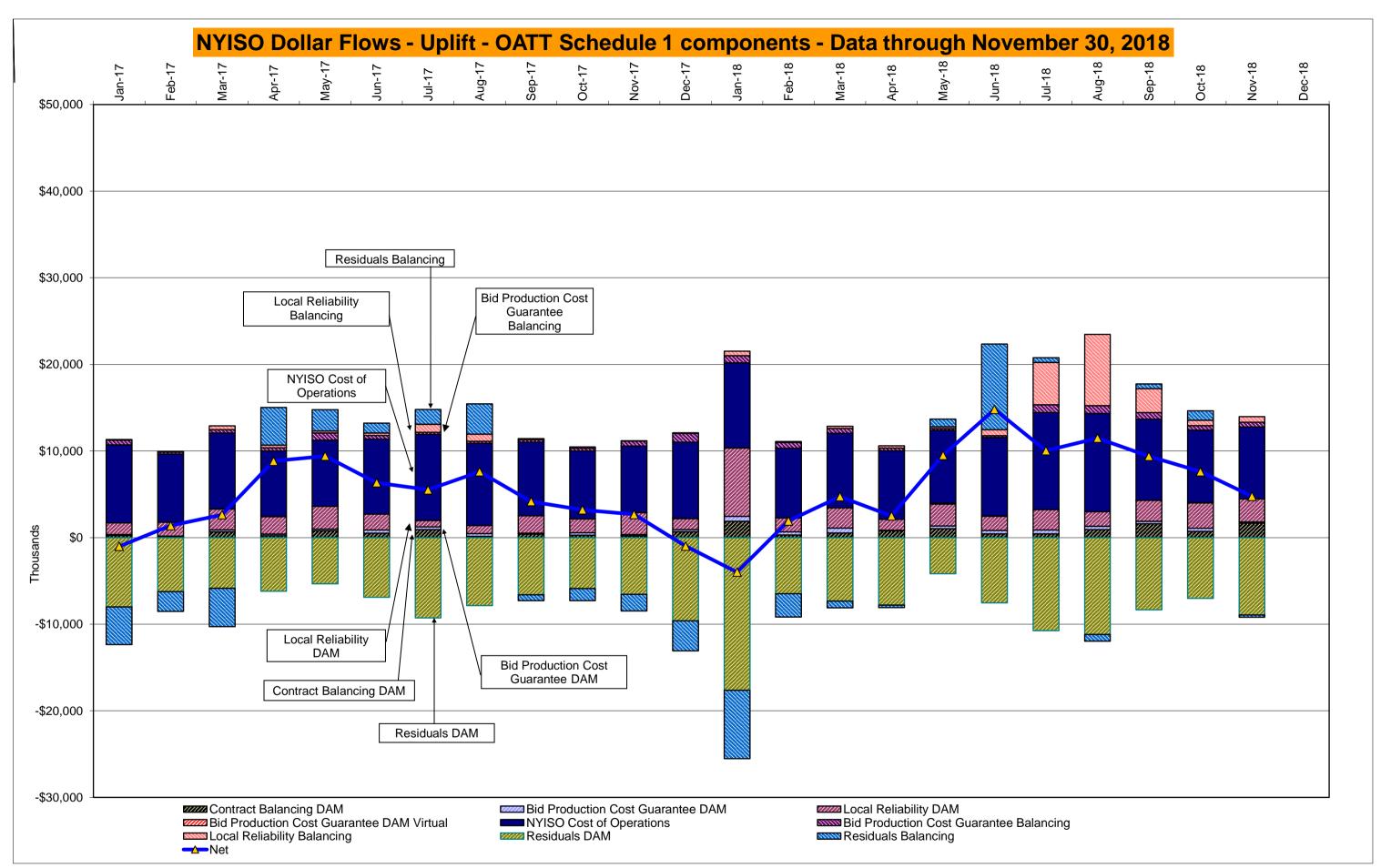


^{*} Excludes ICAP payments.

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

2018	<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>
LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	
NTAC	0.71	0.58	0.88	1.09	0.88	1.00	0.93	0.72	0.40	0.36	1.18	
Reserve	0.92	0.65	0.64	0.81	0.68	0.57	0.49	0.51	0.52	0.80	0.66	
Regulation	0.15	0.15	0.16	0.12	0.14	0.16	0.09	0.09	0.09	0.16	0.17	
NYISO Cost of Operations	0.65	0.65	0.66	0.65	0.66	0.67	0.67	0.66	0.66	0.63	0.63	
FERC Fee Recovery	0.08	0.10	0.09	0.10	0.09	0.09	0.06	0.06	0.08	0.09	0.09	
Uplift	(0.92)	(0.50)	(0.31)	(0.45)	0.05	0.30	(0.13)	(0.02)	(0.11)	(0.30)	(0.27)	
Uplift: Local Reliability Share	0.59	0.14	0.19	0.12	0.22	0.18	0.44	0.59	0.37	0.27	0.25	
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)	(0.57)	(0.17)	0.12	(0.57)	(0.61)	(0.48)	(0.56)	(0.52)	
Voltage Support and Black Start	0.40	0.41	0.42	0.41	0.42	0.42	0.42	0.42	0.42	0.40	0.40	
Avg Monthly Cost	101.54	35.87	32.45	37.74	31.70	35.73	42.12	45.01	40.76	38.00	46.01	
Avg YTD Cost	101.54	72.85	60.06	54.82	50.20	47.70	46.64	46.37	45.75	45.03	45.11	
TSA \$ per NYC MWh	0.00	0.00	0.04	0.00	0.08	0.39	0.21	0.14	0.33	0.75	0.00	
2017	January	February	March	April	May	June	July	August	September	October	November	December
2017 LBMP	<u>January</u> 40.07	February 30.95	<u>March</u> 34.97	<u>April</u> 31.06	<u>May</u> 31.74	<u>June</u> 31.76	<u>July</u> 35.84	<u>August</u> 30.57	September 29.57	October 28.35	November 30.60	December 52.63
LBMP	40.07	30.95	34.97	31.06	31.74	31.76	35.84	30.57	29.57	28.35	30.60	52.63
LBMP NTAC	40.07 0.66	30.95 1.11	34.97 0.86	31.06 1.05	31.74 0.79	31.76 0.62	35.84 0.87	30.57 0.59	29.57 0.62	28.35 0.50	30.60 0.75	52.63 0.81
LBMP NTAC Reserve	40.07 0.66 0.70	30.95 1.11 0.67	34.97 0.86 0.74	31.06 1.05 0.70	31.74 0.79 0.61	31.76 0.62 0.55	35.84 0.87 0.48	30.57 0.59 0.44	29.57 0.62 0.47	28.35 0.50 0.59	30.60 0.75 0.55	52.63 0.81 0.71
LBMP NTAC Reserve Regulation	40.07 0.66 0.70 0.14	30.95 1.11 0.67 0.12	34.97 0.86 0.74 0.13	31.06 1.05 0.70 0.17	31.74 0.79 0.61 0.16	31.76 0.62 0.55 0.13	35.84 0.87 0.48 0.10	30.57 0.59 0.44 0.10	29.57 0.62 0.47 0.11	28.35 0.50 0.59 0.13	30.60 0.75 0.55 0.20	52.63 0.81 0.71 0.15
LBMP NTAC Reserve Regulation NYISO Cost of Operations	40.07 0.66 0.70 0.14 0.65	30.95 1.11 0.67 0.12 0.65	34.97 0.86 0.74 0.13 0.65	31.06 1.05 0.70 0.17 0.65	31.74 0.79 0.61 0.16 0.62	31.76 0.62 0.55 0.13 0.63	35.84 0.87 0.48 0.10 0.63	30.57 0.59 0.44 0.10 0.63	29.57 0.62 0.47 0.11 0.63	28.35 0.50 0.59 0.13 0.62	30.60 0.75 0.55 0.20 0.61	52.63 0.81 0.71 0.15 0.60
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery	40.07 0.66 0.70 0.14 0.65 0.09	30.95 1.11 0.67 0.12 0.65 0.10	34.97 0.86 0.74 0.13 0.65 0.10	31.06 1.05 0.70 0.17 0.65 0.12	31.74 0.79 0.61 0.16 0.62 0.10	31.76 0.62 0.55 0.13 0.63 0.09	35.84 0.87 0.48 0.10 0.63 0.07	30.57 0.59 0.44 0.10 0.63 0.08	29.57 0.62 0.47 0.11 0.63 0.09	28.35 0.50 0.59 0.13 0.62 0.10	30.60 0.75 0.55 0.20 0.61 0.10	52.63 0.81 0.71 0.15 0.60 0.08
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	40.07 0.66 0.70 0.14 0.65 0.09 (0.73)	30.95 1.11 0.67 0.12 0.65 0.10 (0.54)	34.97 0.86 0.74 0.13 0.65 0.10 (0.46)	31.06 1.05 0.70 0.17 0.65 0.12 0.12	31.74 0.79 0.61 0.16 0.62 0.10 0.10	31.76 0.62 0.55 0.13 0.63 0.09 (0.37)	35.84 0.87 0.48 0.10 0.63 0.07 (0.43)	30.57 0.59 0.44 0.10 0.63 0.08 (0.19)	29.57 0.62 0.47 0.11 0.63 0.09 (0.34)	28.35 0.50 0.59 0.13 0.62 0.10 (0.36)	30.60 0.75 0.55 0.20 0.61 0.10 (0.40)	52.63 0.81 0.71 0.15 0.60 0.08 (0.68)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	40.07 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10	30.95 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13	34.97 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21	31.06 1.05 0.70 0.17 0.65 0.12 0.12 0.20	31.74 0.79 0.61 0.16 0.62 0.10 0.10 0.24	31.76 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15	35.84 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11	30.57 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12	29.57 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16	28.35 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14	30.60 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20	52.63 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	40.07 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83)	30.95 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67)	34.97 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67)	31.06 1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08)	31.74 0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13)	31.76 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52)	35.84 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54)	30.57 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31)	29.57 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50)	28.35 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50)	30.60 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60)	52.63 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	40.07 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83) 0.37	30.95 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67) 0.37	34.97 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67) 0.38	31.06 1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08) 0.38	31.74 0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13) 0.38	31.76 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52) 0.38	35.84 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54) 0.38	30.57 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31) 0.38	29.57 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50) 0.38	28.35 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50) 0.38	30.60 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60) 0.37	52.63 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78) 0.37

^{*} Excludes ICAP payments. Market Mitigation and Analysis Prepared: 12/7/2018 4:52 PM



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

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

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

NYISO Markets Transactions

<u>2018</u>	January	February	March	April	May	<u>June</u>	<u>July</u>	August	<u>September</u>	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	
DAM LSE Internal LBMP Energy Sales	59%	57%	58%	60%	61%	61%	65%	65%	61%	57%	58%	
DAM External TC LBMP Energy Sales	4%	3%	2%	2%	2%	1%	1%	2%	3%	6%	6%	
DAM Bilateral - Internal Bilaterals	29%	31%	32%	30%	29%	30%	26%	25%	28%	29%	30%	
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	5%	5%	5%	4%	4%	5%	5%	2%	
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	
DAM Bilateral - Wheel Through Bilaterals	1%	2%	2%	2%	2%	2%	2%	2%	2%	1%	1%	
Balancing Energy Market MWh	-149,619	-299,377	-386,811	-72,862	-29,539	-354,112	-80,438	-44,732	-210,436	-314,885	-304,277	_
Balancing Energy LSE Internal LBMP Energy Sales	-147%	-101%	-128%	-208%	-458%	-113%	-123%	-75%	-82%	-105%	-100%	
Balancing Energy External TC LBMP Energy Sales	74%	24%	37%	189%	564%	29%	129%	209%	14%	30%	18%	
Balancing Energy Bilateral - Internal Bilaterals	9%	5%	0%	-11%	29%	5%	18%	23%	7%	2%	3%	
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%	9%	6%	34%	51%	3%	14%	25%	3%	0%	0%	
Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-36%	-15%	-103%	-287%	-23%	-138%	-281%	-42%	-27%	-31%	
Transactions Summary												_
LBMP	63%	59%	59%	62%	63%	61%	66%	68%	64%	63%	64%	
Internal Bilaterals	30%	32%	33%	30%	29%	31%	27%	25%	28%	30%	31%	
Import Bilaterals	5%	5%	6%	5%	5%	5%	4%	4%	5%	5%	3%	
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	
Wheels Through	1%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%	
Market Share of Total Load	170	170	170	1,0	1,0	270	170	170	270	170	1,0	
Day Ahead Market	101.0%	102.4%	102.9%	100.6%	100.2%	102.6%	100.5%	100.3%	101.5%	102.4%	102.3%	
Balancing Energy +	-1.0%	-2.4%	-2.9%	-0.6%	-0.2%	-2.6%	-0.5%	-0.3%	-1.5%	-2.4%	-2.3%	
Total MWH	15,004,132	12,344,477	13,134,575	12,085,824	12,691,534	13,629,272	16,759,556	17,150,715		13,233,943	13,201,857	
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537	458	399	411	
7. Volago Bally Ellorgy Collabat World CVVII	100	120	110		001	110	020	001	100			
<u>2017</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>
2017 Day Ahead Market MWh	<u>January</u> 14,135,019	<u>February</u> 12,565,206	<u>March</u> 13,983,865	<u>April</u> 12,061,475	<u>May</u> 12,966,981	<u>June</u> 14,406,180	<u>July</u> 16,505,801	<u>August</u> 15,948,927	<u>September</u> 14,100,695	October 13,252,368	<u>November</u> 13,042,826	<u>December</u> 14,829,403
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	·		<u> </u>		_	·	-					14,829,403 55%
Day Ahead Market MWh	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695	13,252,368	13,042,826	14,829,403
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	14,135,019 57%	12,565,206 57%	13,983,865 55%	12,061,475 54%	12,966,981 58%	14,406,180 60%	16,505,801 62%	15,948,927 61%	14,100,695 57%	13,252,368 55%	13,042,826 53%	14,829,403 55%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	14,135,019 57% 2%	12,565,206 57% 2%	13,983,865 55% 1%	12,061,475 54% 1%	12,966,981 58% 1%	14,406,180 60% 1%	16,505,801 62% 1%	15,948,927 61% 1%	14,100,695 57% 1%	13,252,368 55% 2%	13,042,826 53% 3%	14,829,403 55% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	14,135,019 57% 2% 32%	12,565,206 57% 2% 32%	13,983,865 55% 1% 34%	12,061,475 54% 1% 35%	12,966,981 58% 1% 33%	14,406,180 60% 1% 31%	16,505,801 62% 1% 29%	15,948,927 61% 1% 29%	14,100,695 57% 1% 32%	13,252,368 55% 2% 34%	13,042,826 53% 3% 34%	14,829,403 55% 5% 32%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5%	12,565,206 57% 2% 32% 5%	13,983,865 55% 1% 34% 5%	12,061,475 54% 1% 35% 6%	12,966,981 58% 1% 33% 4%	14,406,180 60% 1% 31% 5%	16,505,801 62% 1% 29% 4%	15,948,927 61% 1% 29% 5%	14,100,695 57% 1% 32% 5%	13,252,368 55% 2% 34% 5%	13,042,826 53% 3% 34% 5%	14,829,403 55% 5% 32% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2%	12,565,206 57% 2% 32% 5% 2%	13,983,865 55% 1% 34% 5% 2%	12,061,475 54% 1% 35% 6% 2%	12,966,981 58% 1% 33% 4% 2%	14,406,180 60% 1% 31% 5% 2%	16,505,801 62% 1% 29% 4% 1%	15,948,927 61% 1% 29% 5% 2%	14,100,695 57% 1% 32% 5% 2%	13,252,368 55% 2% 34% 5% 2%	13,042,826 53% 3% 34% 5% 2%	14,829,403 55% 5% 32% 5% 2%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	14,135,019 57% 2% 32% 5% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2%	12,966,981 58% 1% 33% 4% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2%	16,505,801 62% 1% 29% 4% 1% 3%	15,948,927 61% 1% 29% 5% 2% 3%	14,100,695 57% 1% 32% 5% 2% 4%	13,252,368 55% 2% 34% 5% 2% 2%	13,042,826 53% 3% 34% 5% 2% 3%	14,829,403 55% 5% 32% 5% 2% 2%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh	14,135,019 57% 2% 32% 5% 2% 2% -256,448	12,565,206 57% 2% 32% 5% 2% 2% -407,284	13,983,865 55% 1% 34% 5% 2% 2% -509,053	12,061,475 54% 1% 35% 6% 2% 2% -466,426	12,966,981 58% 1% 33% 4% 2% 2% -666,048	14,406,180 60% 1% 31% 5% 2% 2% -564,312	16,505,801 62% 1% 29% 4% 1% 3%	15,948,927 61% 1% 29% 5% 2% 3% -853,898	14,100,695 57% 1% 32% 5% 2% 4% -633,990	13,252,368 55% 2% 34% 5% 2% 2% -510,721	13,042,826 53% 3% 34% 5% 2% 3% -410,072	14,829,403 55% 5% 32% 5% 2% 2% -254,003
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals 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	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25%
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Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through 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	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9%
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Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals 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 - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34%
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Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals 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 - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Export Bilaterals Import Bilaterals Export Bilaterals Wheels Through	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2%	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals 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 Mheels Through Market Share of Total Load Day Ahead Market	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 2%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - ImportI/Non-LBMP Market Bilaterals 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 - Export/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 Wheels Through Market Share of Total Load	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 2% 104.0% -4.0%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2% 105.7%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 2% 104.7% -4.7%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1% 104.0% -4.0%	13,042,826 53% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1% 103.2% -3.2%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1% 101.7% -1.7%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals 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 Balancing Energy +	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 104.0%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1% 103.2%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%

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

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

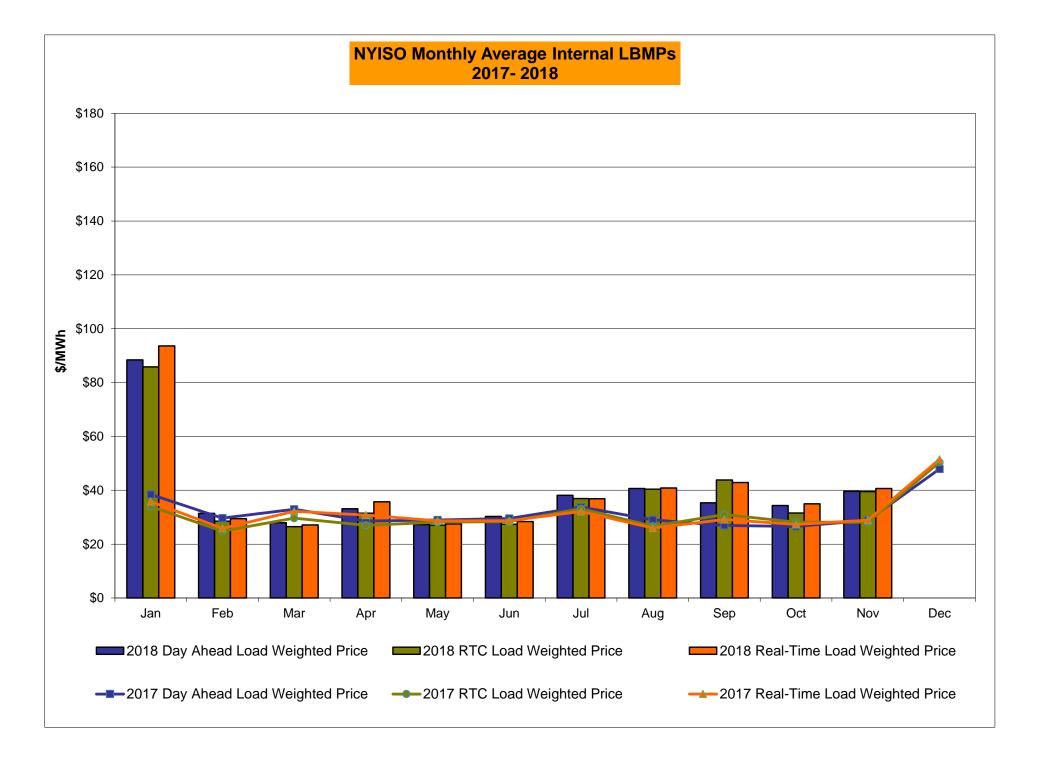
^{*} The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

NYISO Markets 2018 Energy Statistics

							317					
DAY AUEAD I DMD	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
DAY AHEAD LBMP	*	***	*	A 00 40	40-0-	000.44	40	400.00	# 00.00	400 0	000.00	
Price *	\$83.53	\$30.37	\$27.37	\$32.40	\$25.97	\$28.41	\$35.73	\$38.00	•	\$33.27	\$38.36	
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25	\$16.51	\$12.01	\$9.24	\$11.36	
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	
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	
Standard Deviation	\$60.83	\$11.96	\$8.99	\$14.30	\$20.37	\$12.78	\$17.44	\$20.05	\$61.50	\$13.43	\$17.24	
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	
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	
Standard Deviation	\$87.41	\$17.36	\$12.25	\$26.57	\$23.49	\$24.34	\$18.44	\$27.21	\$46.81	\$37.42	\$26.15	
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	
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537	458	399	411	
				NVISO	Markote	2017 Ene	rav Stati	etice				
				141130	iviai kets	ZUII LIIC	igy Stati	31103				
	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
DAY AHEAD LBMP												
Price *	\$37.22	\$28.84	\$32.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	\$25.05	\$25.49	\$27.88	\$45.46
Standard Deviation	\$13.20	\$7.97	\$11.95	\$7.66	\$9.47	\$12.37	\$13.51	\$10.60	\$12.09	\$8.53	\$9.87	\$31.56
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95	\$26.57	\$28.83	\$47.90
RTC LBMP												
Drice *	<u> </u>	<u></u>	<u></u> ተረሰ ሰር				<u></u>	ሲ ጋይ ጋር	<u></u>	ቀሳር 04	ሰ ጋ7 ጋር	Φ47.7E

Price *	\$37.22	\$28.84	\$32.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	\$25.05	\$25.49	\$27.88	\$45.46	
Standard Deviation	\$13.20	\$7.97	\$11.95	\$7.66	\$9.47	\$12.37	\$13.51	\$10.60	\$12.09	\$8.53	\$9.87	\$31.56	
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95	\$26.57	\$28.83	\$47.90	
RTC LBMP													
Price *	\$32.87	\$24.09	\$28.86	\$26.19	\$26.19	\$26.40	\$30.84	\$25.26	\$27.97	\$26.91	\$27.35	\$47.75	
Standard Deviation	\$14.57	\$9.52	\$13.70	\$10.36	\$21.29	\$14.76	\$18.14	\$13.08	\$27.14	\$13.40	\$10.54	\$37.33	
Load Weighted Price **	\$33.96	\$24.81	\$29.67	\$26.98	\$28.10	\$28.39	\$33.13	\$26.65	\$30.98	\$28.13	\$28.15	\$50.39	
REAL TIME LBMP													
Price *	\$34.61	\$25.14	\$31.21	\$29.61	\$26.56	\$26.16	\$29.47	\$24.36	\$26.08	\$25.95	\$27.91	\$48.42	
Standard Deviation	\$18.20	\$14.21	\$25.02	\$39.82	\$26.11	\$19.00	\$20.25	\$14.03	\$25.72	\$14.49	\$15.86	\$42.66	
Load Weighted Price **	\$35.80	\$25.84	\$32.21	\$30.81	\$28.64	\$28.67	\$32.11	\$25.95	\$29.13	\$27.33	\$28.90	\$51.49	
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437	398	403	444	

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

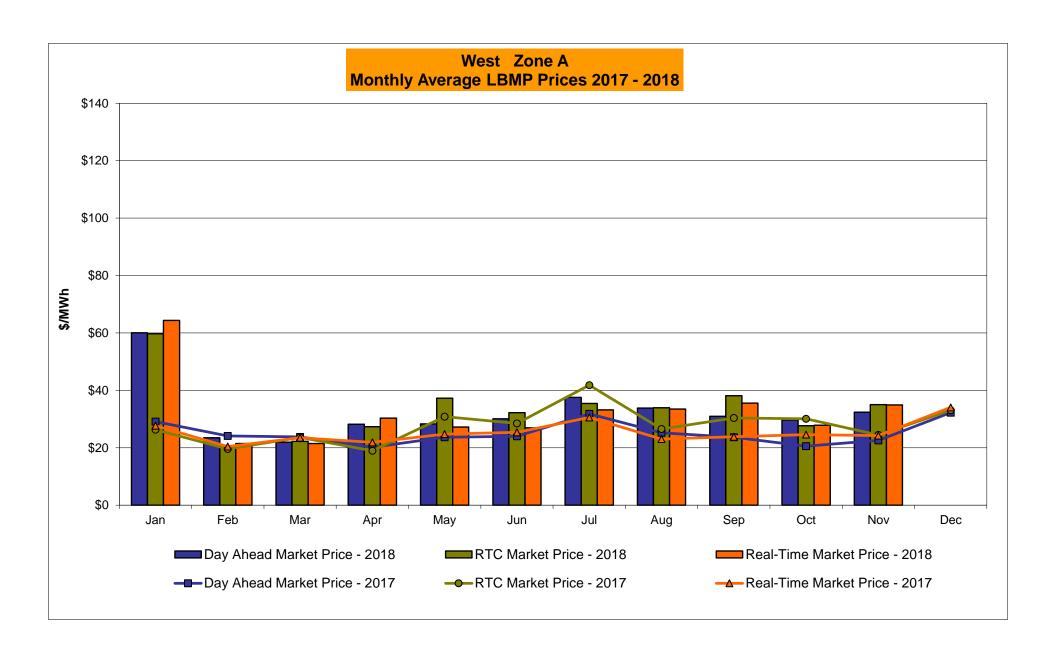


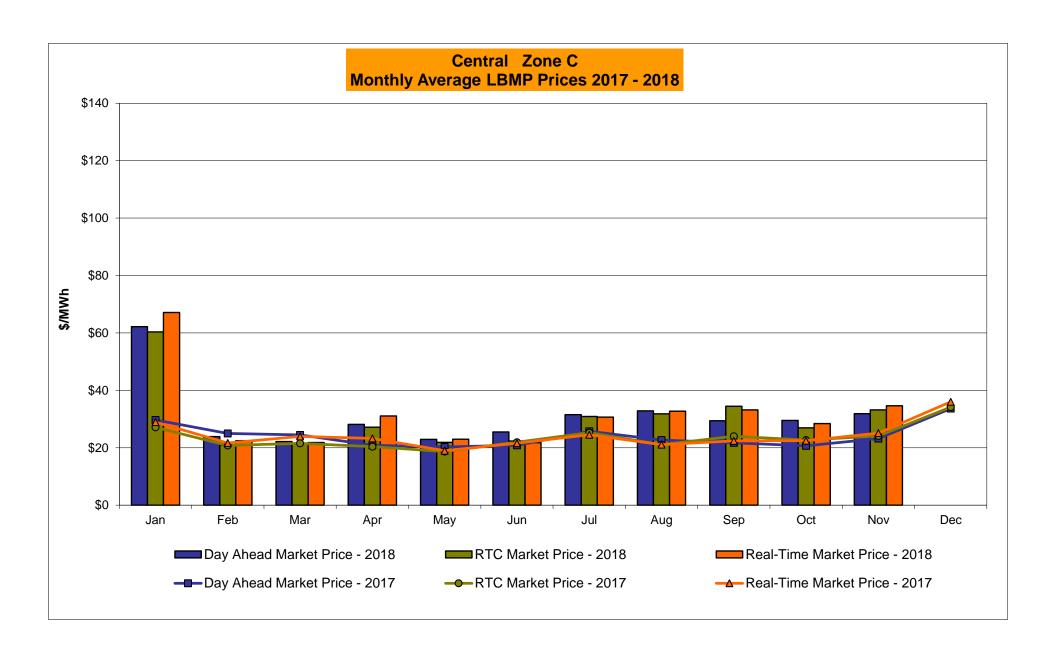
November 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

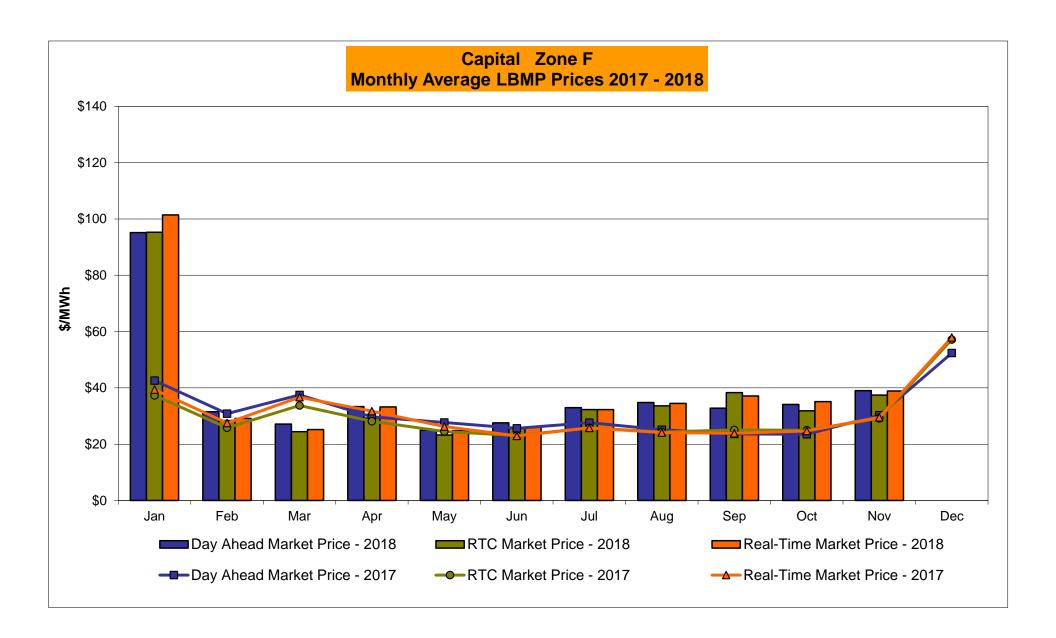
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY		DUNWOODIE	NEW YORK CITY	LONG ISLAND
DAY AUEAD I DMD	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP	00.00	00.07	07.00	04.00	00.04	00.00	07.70	07.00	20.00	00.00	50.00
Unweighted Price *	32.39	30.97	27.82	31.86	32.21 10.73	39.03	37.72	37.96	38.02	38.60	56.83 23.50
Standard Deviation	12.77	10.39	10.88	10.53	10.73	10.41	10.11	10.21	10.21	10.26	23.50
RTC LBMP											
Unweighted Price *	35.05	32.35	29.25	33.19	33.37	37.45	36.93	37.04	37.06	37.42	56.88
Standard Deviation	30.89	15.08	16.74	15.27	15.42	15.86	15.43	15.45	15.41	15.49	49.35
REAL TIME LBMP											
Unweighted Price *	34.90	33.87	30.64	34.65	34.95	38.86	38.41	38.53	38.55	38.89	55.00
Standard Deviation	29.79	24.67	25.58	25.04	25.36	25.91	25.82	25.84	25.82	25.91	41.19
Standard Deviation	29.19	24.07	25.56	25.04	25.30	25.91	25.02	23.04	25.02	25.91	41.19
		HYDRO	HYDRO			CROSS					
	ONTARIO	HYDRO	HYDRO		NFW	CROSS	NORTHPORT.				
	ONTARIO IESO	QUEBEC	QUEBEC	PJM	NEW ENGLAND	SOUND	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE Controllable	LINDEN VFT	HUDSON Controllable	Dennison Controllable
	IESO	QUEBEC (Wheel) (In	QUEBEC mport/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	Controllable	<u>Controllable</u>
DAY AHEAD LBMP		QUEBEC	QUEBEC	PJM Zone P		SOUND CABLE	NORWALK				
DAY AHEAD LBMP Unweighted Price *	IESO	QUEBEC (Wheel) (In	QUEBEC mport/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	Controllable	<u>Controllable</u>
	IESO Zone O	QUEBEC (Wheel) (In	QUEBEC mport/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	Zone O 29.77	QUEBEC (Wheel) (In Zone M	QUEBEC mport/Export) Zone M 28.77	Zone P 34.19	Zone N 53.71	SOUND CABLE Controllable Line 55.62	NORWALK Controllable Line 55.39	Controllable Line 54.77	Controllable Line 38.36	Controllable Line 38.42	Controllable Line 27.09
Unweighted Price * Standard Deviation RTC LBMP	Zone O 29.77 9.31	QUEBEC (Wheel) (In Zone M 29.00 10.36	QUEBEC mport/Export) Zone M 28.77 10.31	Zone P 34.19 9.65	Zone N 53.71 23.78	SOUND CABLE Controllable Line 55.62 23.36	NORWALK Controllable Line 55.39 24.33	Controllable Line 54.77 23.21	Controllable Line 38.36 10.15	Controllable Line 38.42 10.20	Controllable Line 27.09 10.77
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price *	29.77 9.31	QUEBEC (Wheel) (In Zone M 29.00 10.36	QUEBEC mport/Export) Zone M 28.77 10.31	Zone P 34.19 9.65	ENGLAND Zone N 53.71 23.78	SOUND CABLE Controllable Line 55.62 23.36	NORWALK Controllable Line 55.39 24.33	<u>Line</u> 54.77 23.21 55.19	28.36 10.15	28.42 10.20	27.09 10.77
Unweighted Price * Standard Deviation RTC LBMP	Zone O 29.77 9.31	QUEBEC (Wheel) (In Zone M 29.00 10.36	QUEBEC mport/Export) Zone M 28.77 10.31	Zone P 34.19 9.65	Zone N 53.71 23.78	SOUND CABLE Controllable Line 55.62 23.36	NORWALK Controllable Line 55.39 24.33	Controllable Line 54.77 23.21	Controllable Line 38.36 10.15	Controllable Line 38.42 10.20	Controllable Line 27.09 10.77
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation REAL TIME LBMP	29.77 9.31 30.72 14.94	QUEBEC (Wheel) (In Zone M 29.00 10.36 25.53 17.86	QUEBEC mport/Export) Zone M 28.77 10.31 25.53 17.86	Zone P 34.19 9.65 34.64 15.49	Zone N 53.71 23.78 51.02 27.30	SOUND CABLE Controllable Line 55.62 23.36 56.25 49.08	NORWALK Controllable Line 55.39 24.33 56.02 48.90	54.77 23.21 55.19 47.74	28.36 10.15 36.76 18.48	28.42 10.20 37.36 15.39	27.09 10.77 28.45 16.78
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	29.77 9.31	QUEBEC (Wheel) (In Zone M 29.00 10.36	QUEBEC mport/Export) Zone M 28.77 10.31	Zone P 34.19 9.65	ENGLAND Zone N 53.71 23.78	SOUND CABLE Controllable Line 55.62 23.36	NORWALK Controllable Line 55.39 24.33	<u>Line</u> 54.77 23.21 55.19	28.36 10.15	28.42 10.20	27.09 10.77

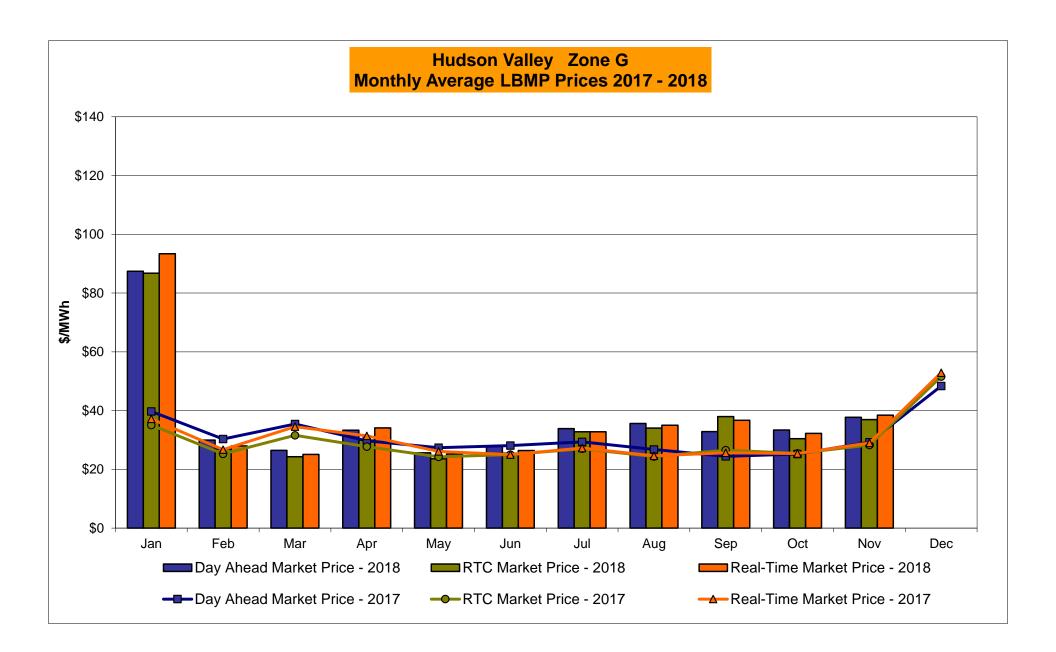
Market Mitigation and Analysis Prepared: 12/7/2018 4:49 PM

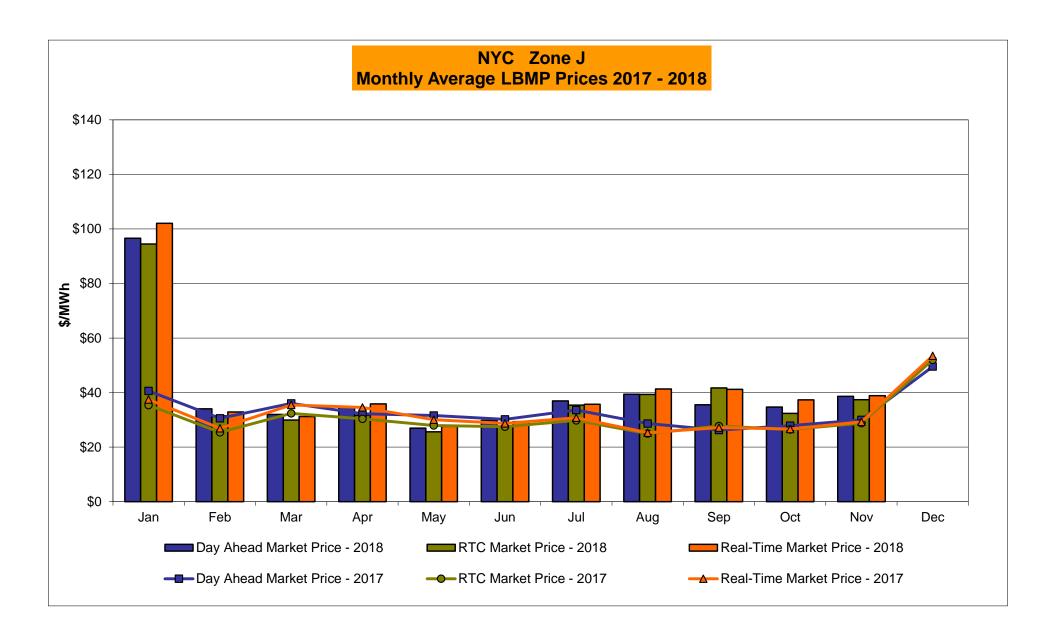
^{*} Straight LBMP averages

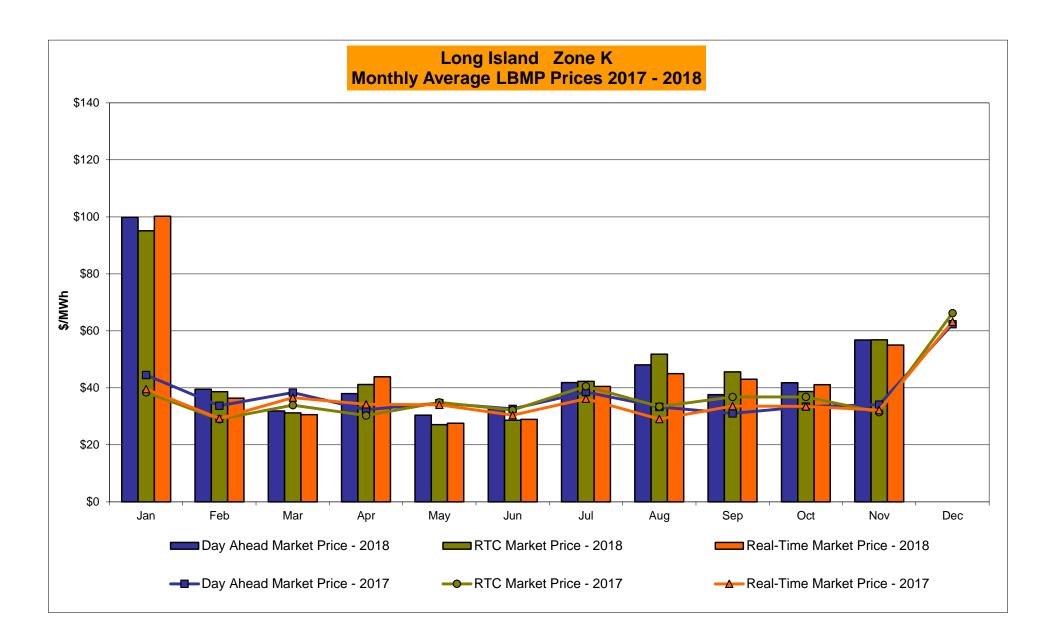


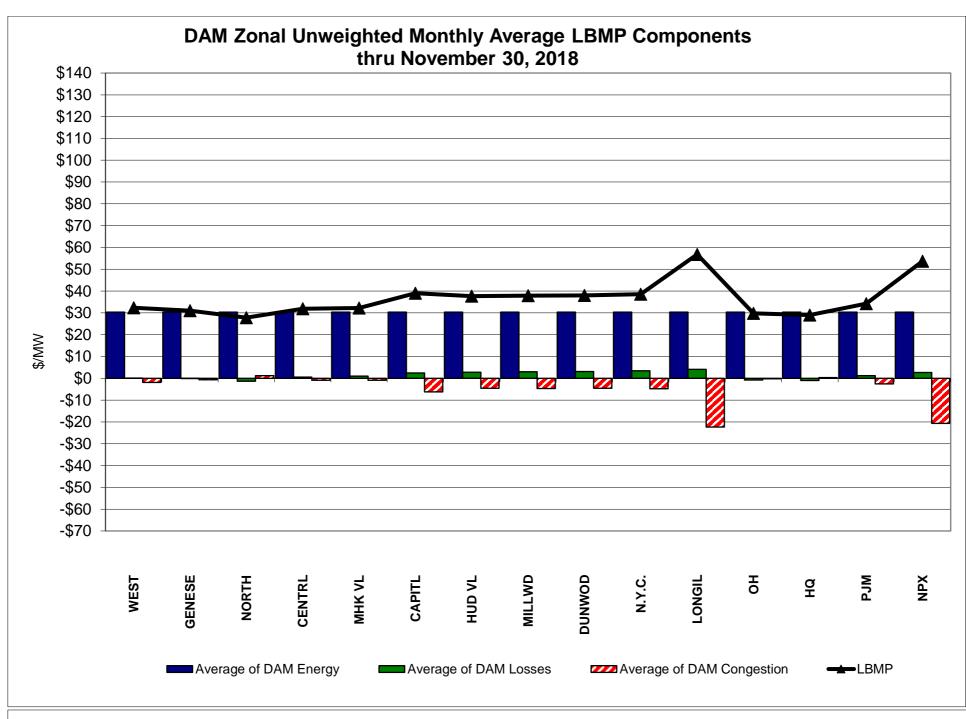


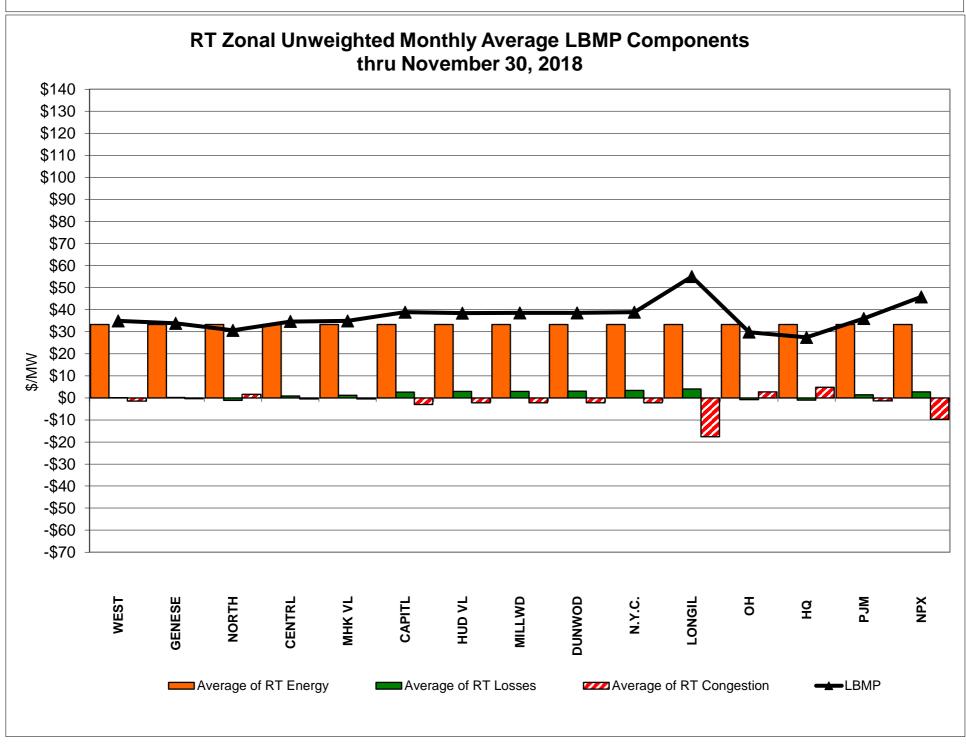




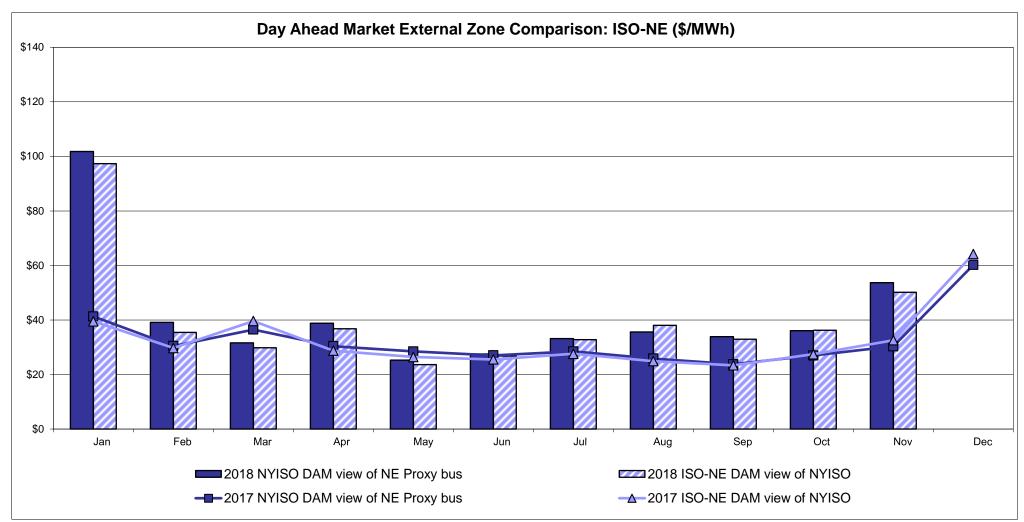


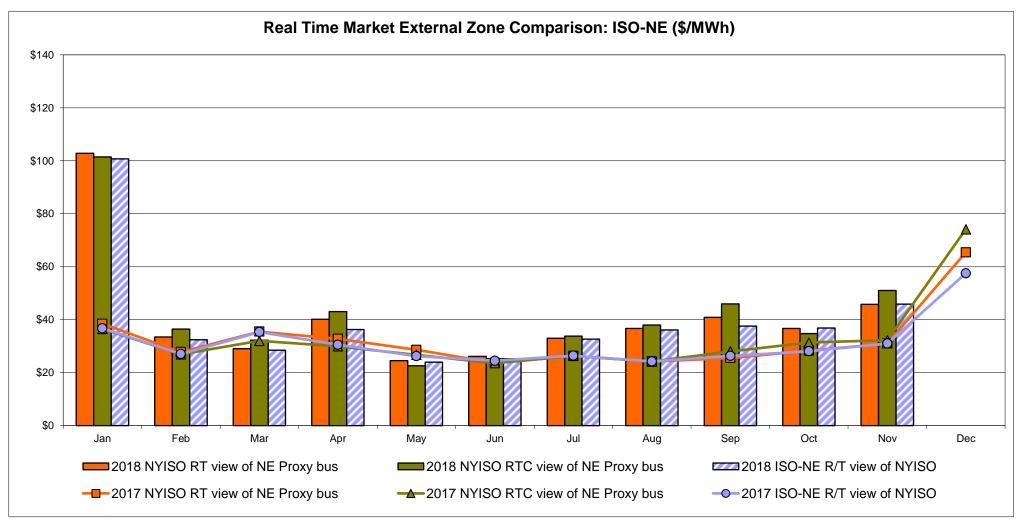




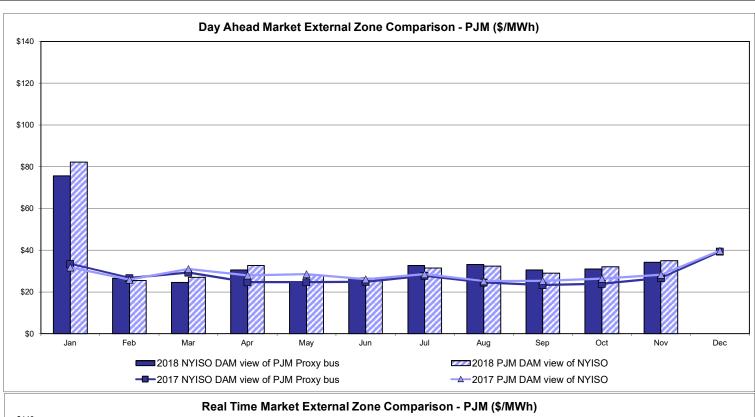


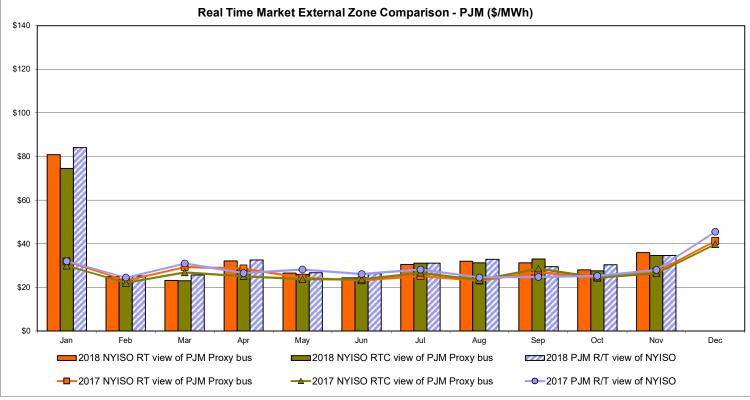
External Comparison ISO-New England



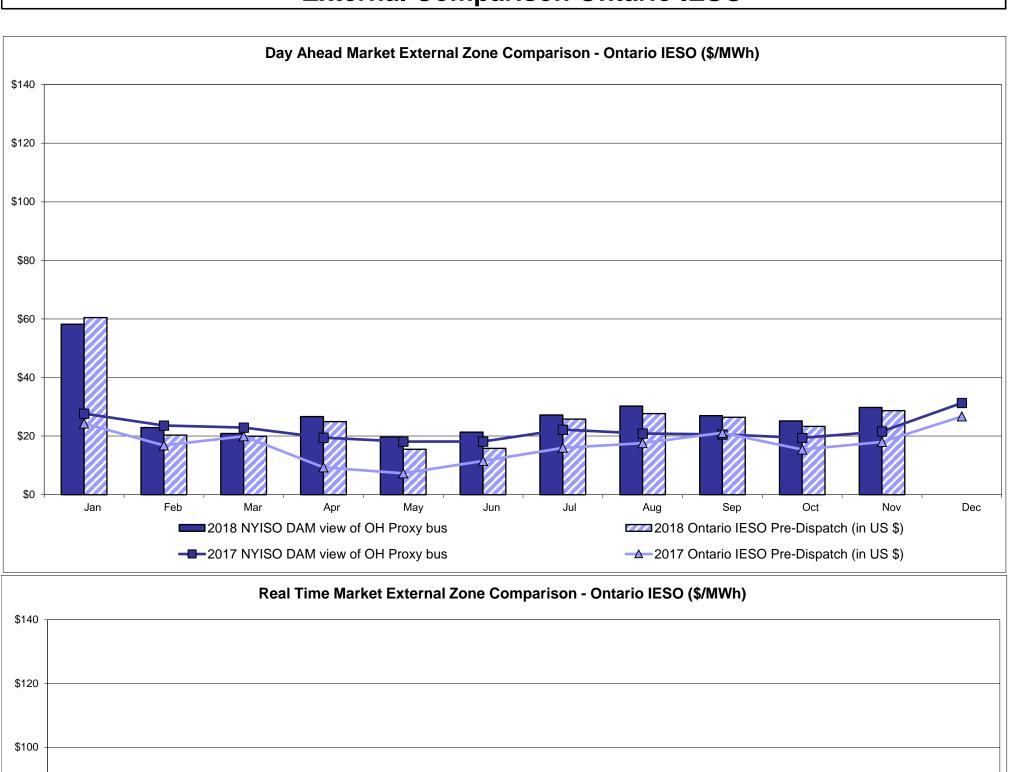


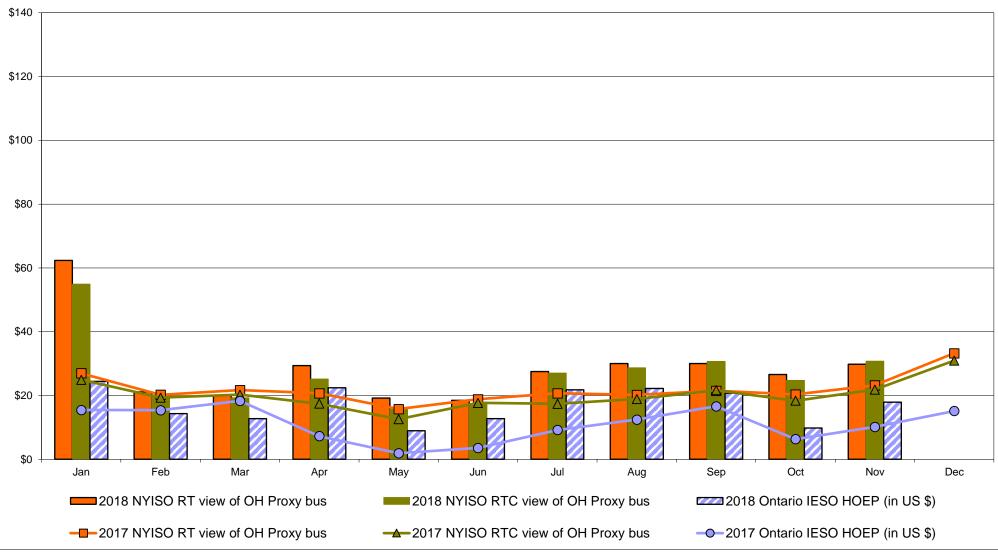
External Comparison PJM





External Comparison Ontario IESO

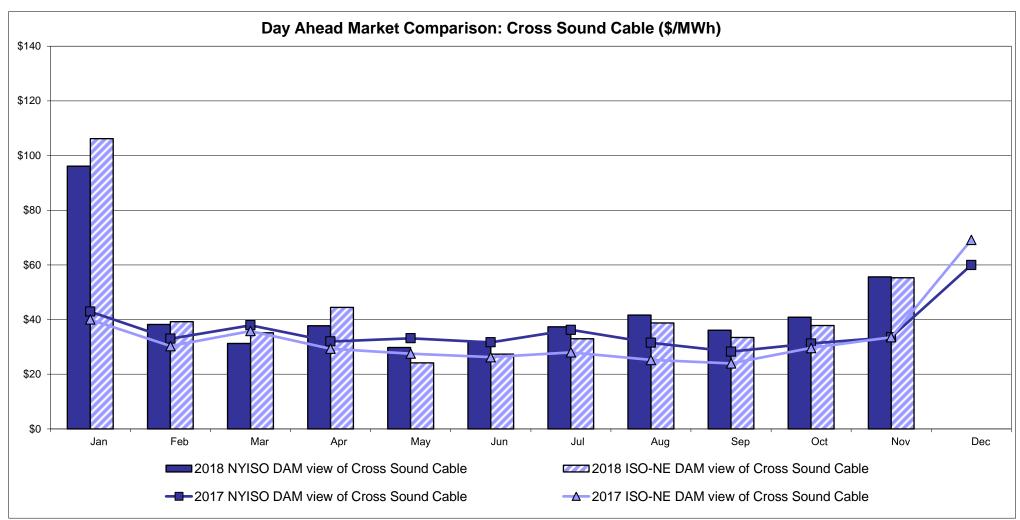


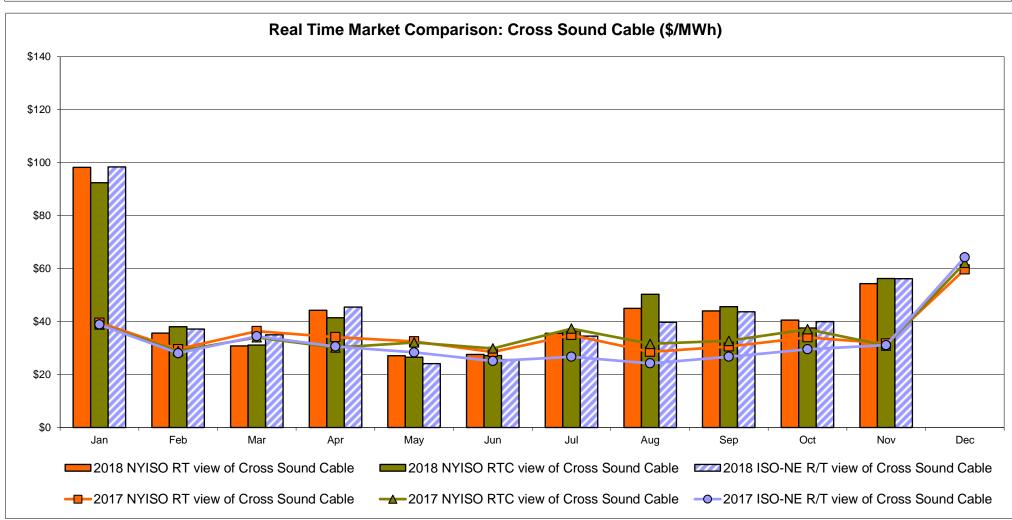


Notes: Exchange factor used for November 2018 was 0.757288905717531 to US

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

External Controllable Line: Cross Sound Cable (New England)





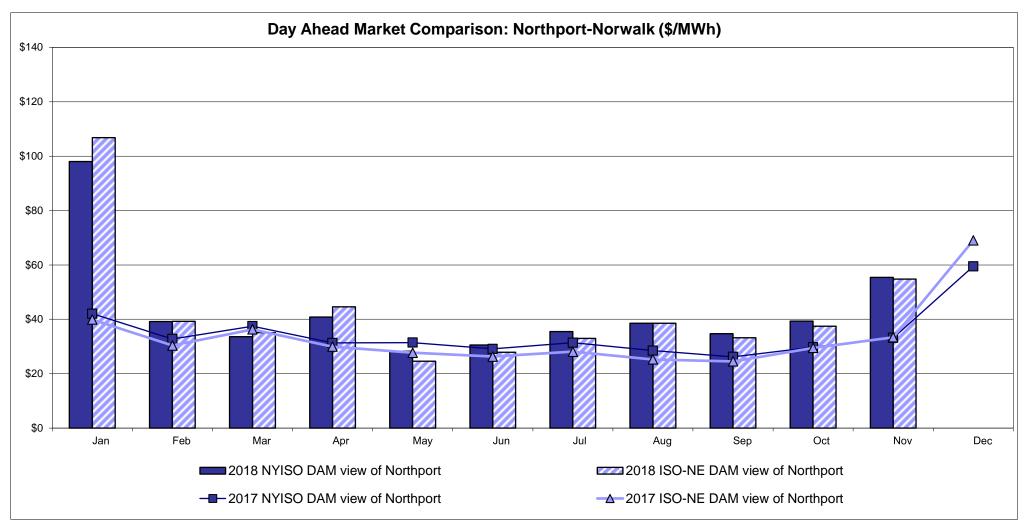
Note:

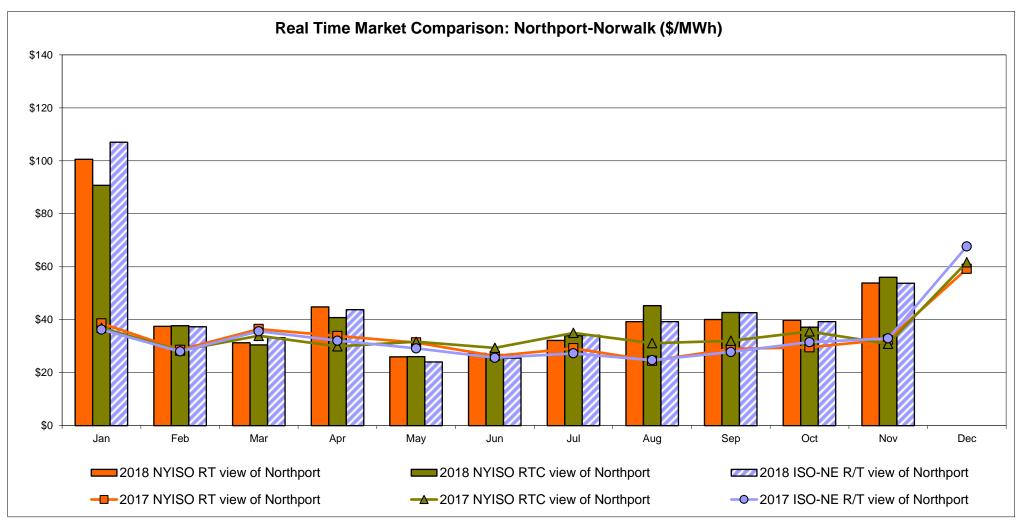
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)





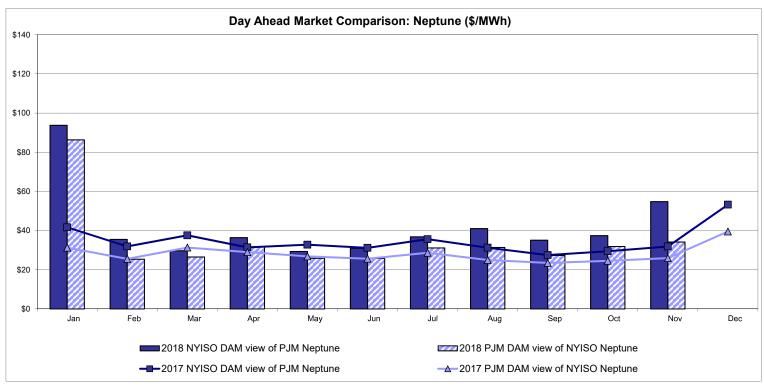
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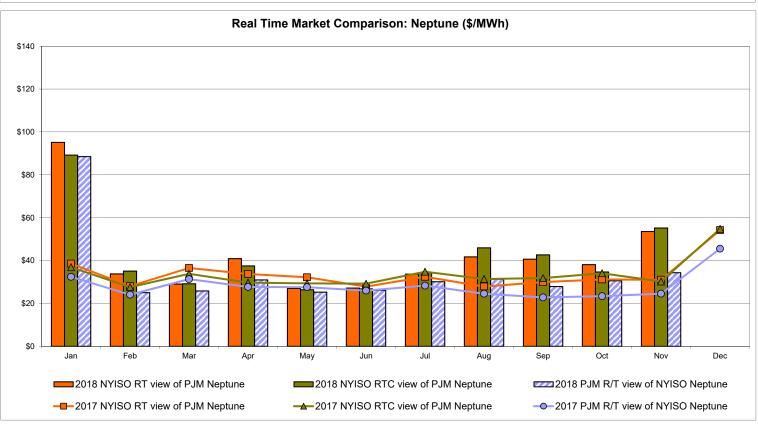
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

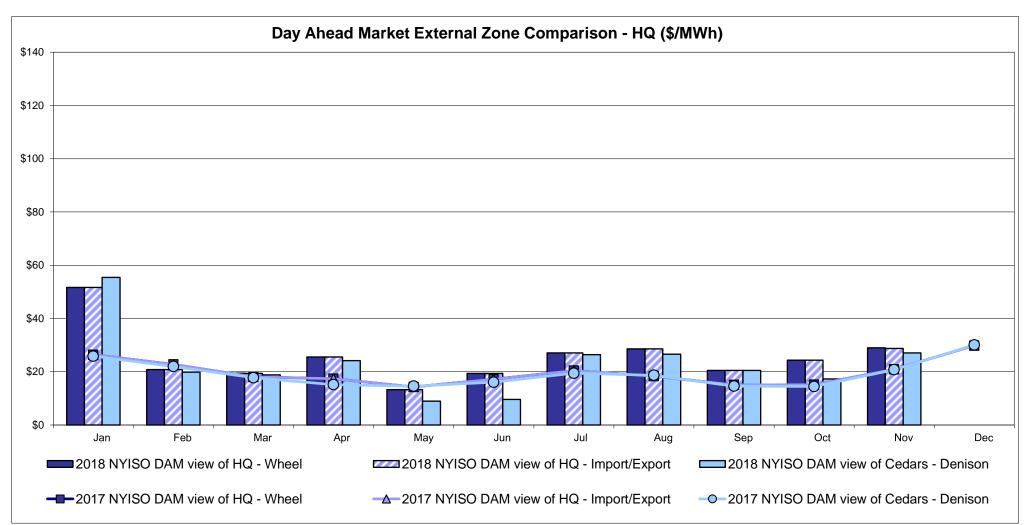
The DAM and R/T prices at the 1385 interface are used for NYISO.

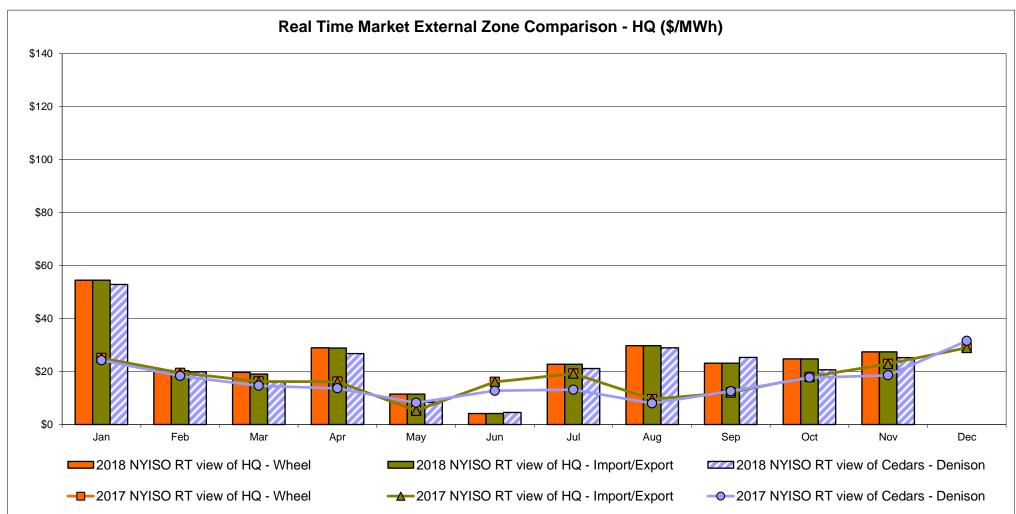
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

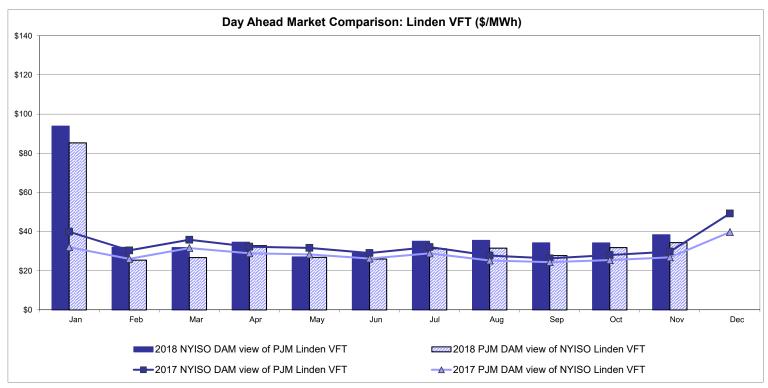


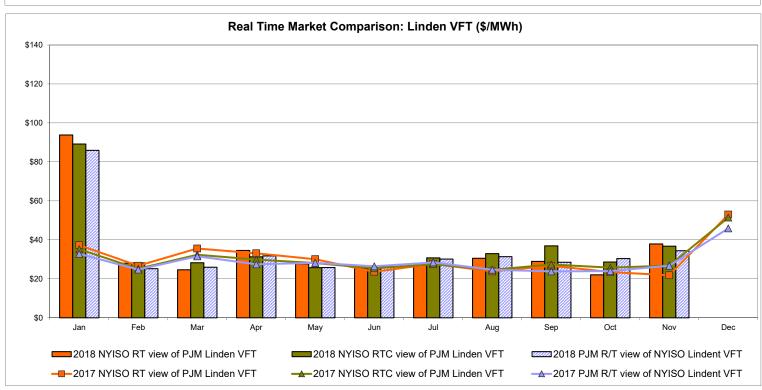


Note:

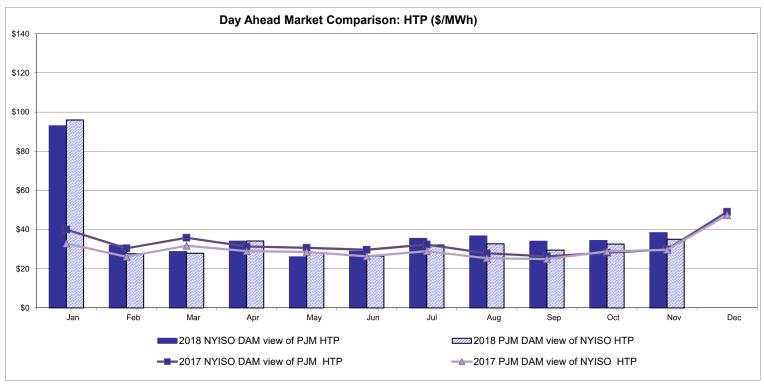
Hydro-Quebec Prices are unavailable.

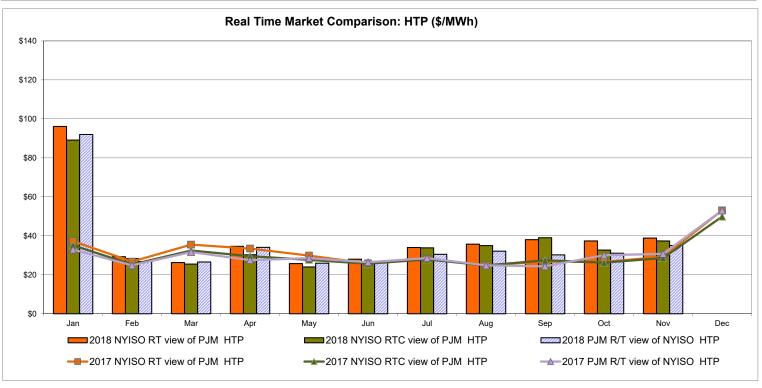
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)

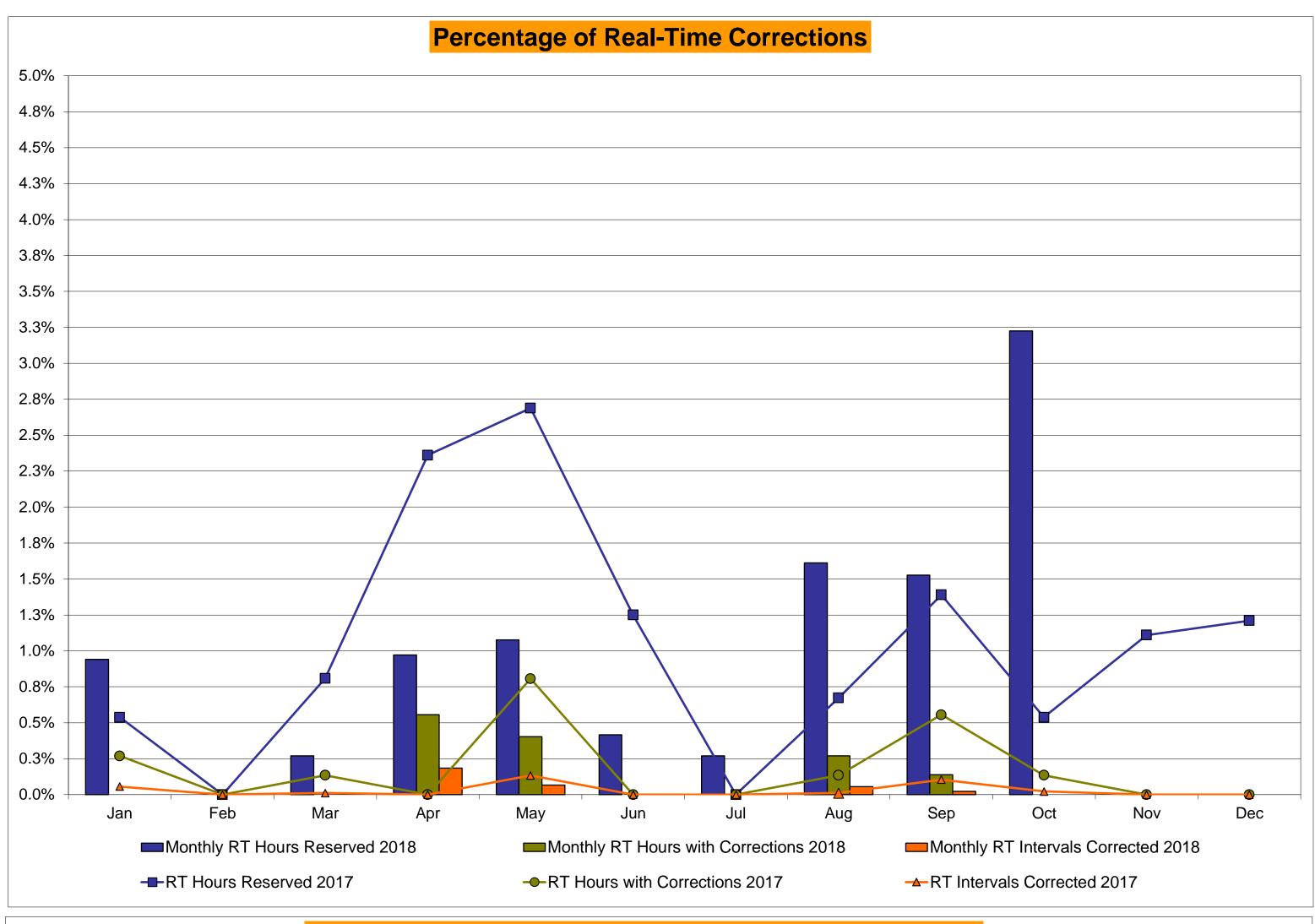


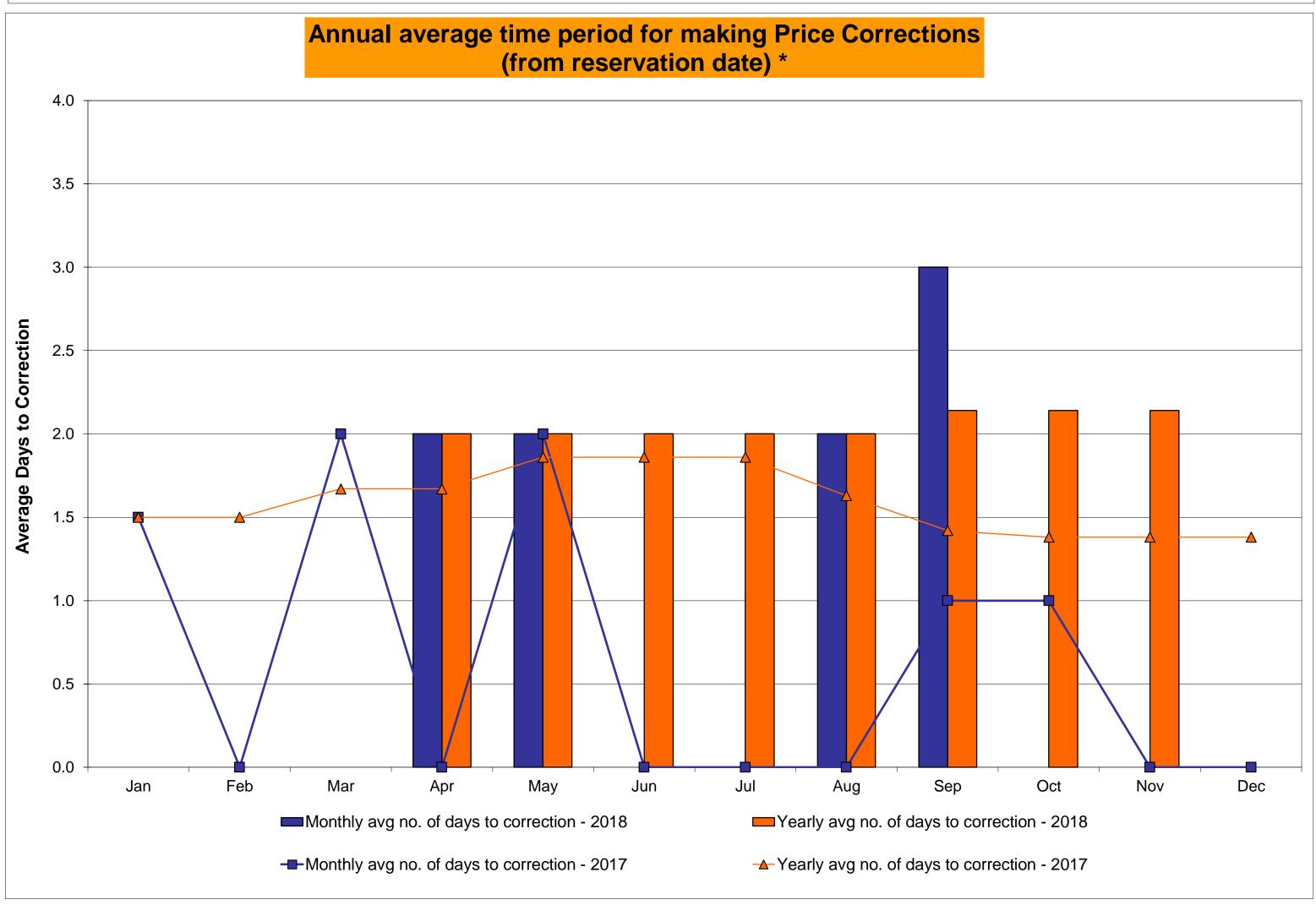


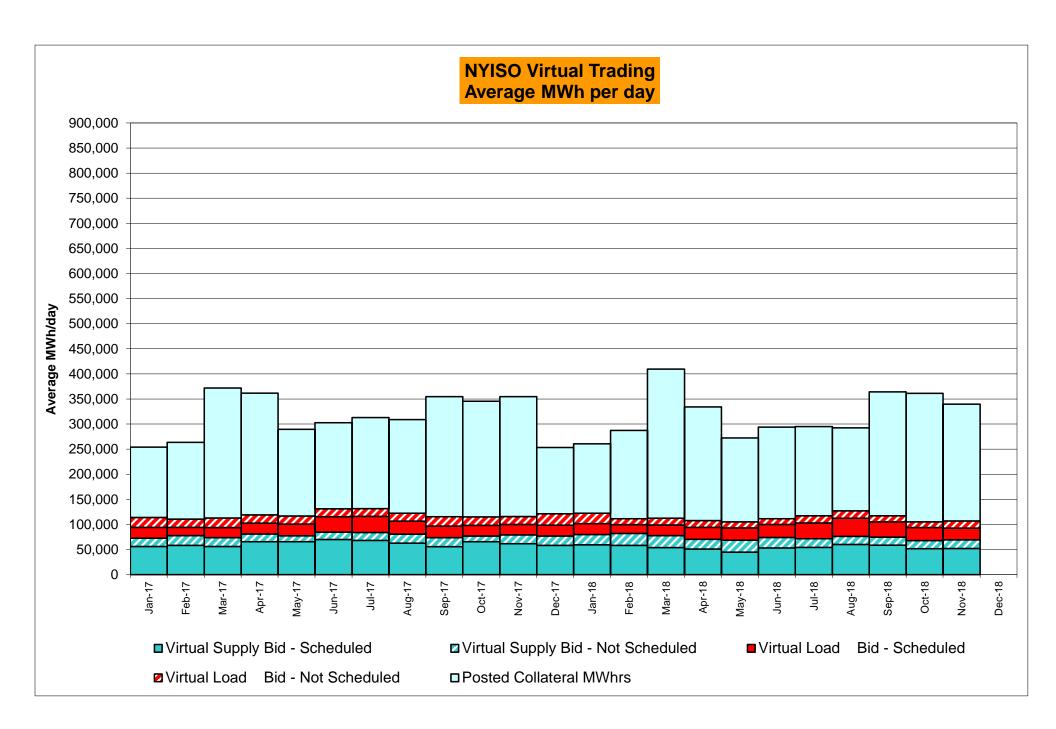
NYISO Real Time Price Correction Statistics

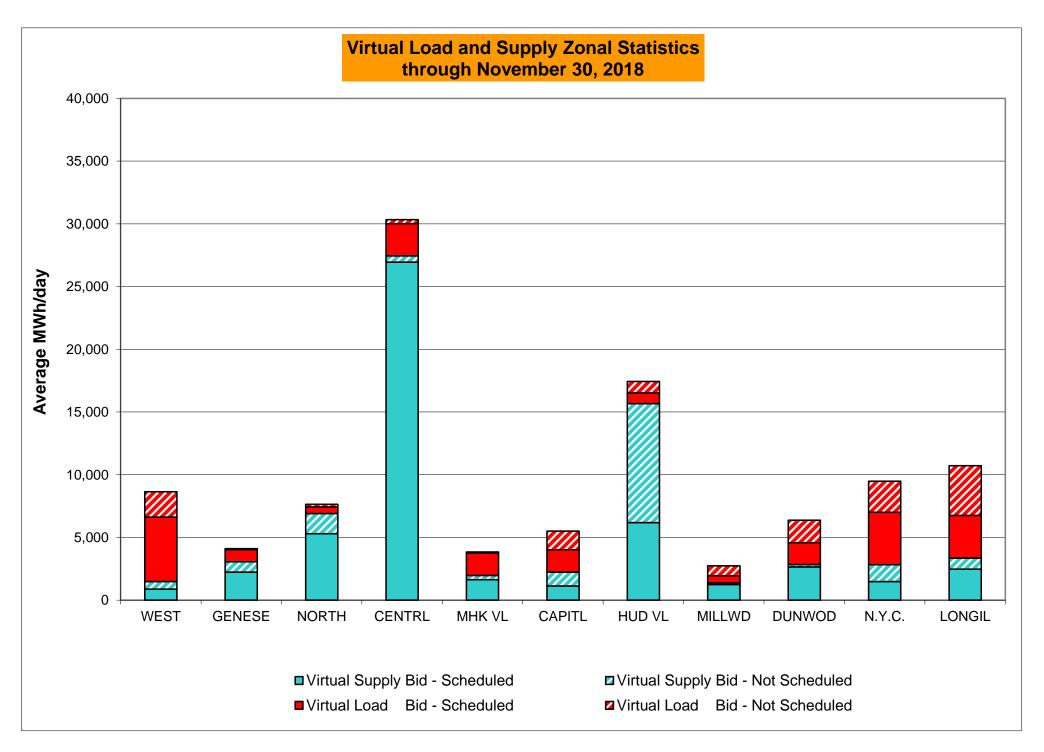
				<u> </u>	<u> </u>			<u> </u>					
<u>2018</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	0	0	0	4	3	0	0	2	1	0	0	
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	
% of hours with corrections	in the month	0.00%	0.00%	0.00%	0.56%	0.40%	0.00%	0.00%	0.27%	0.14%	0.00%	0.00%	
% of hours with corrections	year-to-date	0.00%	0.00%	0.00%	0.14%	0.19%	0.16%	0.14%	0.15%	0.15%	0.14%	0.12%	
Interval Corrections	-												
Number of intervals corrected	in the month	0	0	0	16	6	0	0	5	2	0	0	
Number of intervals	in the month	9,021	8,112	9,002	8,717	9,033	8,723	9,021	9,071	8,723	8,990	8,763	
% of intervals corrected	in the month	0.00%	0.00%	0.00%	0.18%	0.07%	0.00%	0.00%	0.06%	0.02%	0.00%	0.00%	
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.03%	0.03%	
Hours Reserved	•												
Number of hours reserved	in the month	7	0	2	7	8	3	2	12	11	24	0	
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	
% of hours reserved	in the month	0.94%	0.00%	0.27%	0.97%	1.08%	0.42%	0.27%	1.61%	1.53%	3.23%	0.00%	
% of hours reserved Days to Correction *	year-to-date	0.94%	0.49%	0.42%	0.56%	0.66%	0.62%	0.57%	0.70%	0.79%	1.04%	0.95%	
	: 41 41-	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	2.00	0.00	0.00	
Avg. number of days to correction	in the month	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	3.00	0.00	0.00	
Avg. number of days to correction	year-to-date	0.00	0.00	0.00	2.00	2.00	2.00	2.00	2.00	2.14	2.14	2.14	
Days Without Corrections		0.4		0.4				0.4					
Days without corrections	in the month	31	28	31	28	28	30	31	30	29	31	30	
Days without corrections	year-to-date	31	59	90	118	146	176	207	237	266	297	327	
<u>2017</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	<u>December</u>
2017 Hour Corrections		<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
	in the month	<u>January</u> 2	<u>February</u> 0	March 1	<u>April</u> 0	<u>May</u> 6	<u>June</u> 0	<u>July</u> 0	August 1	September 4	October 1	November 0	December 0
Hour Corrections	in the month in the month			<u>March</u> 1 743	•	-			August 1 744		October 1 744		
Hour Corrections Number of hours with corrections		2	0	1	0	6	0	0	1	4	1	0	0
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	2 744 0.27%	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720 0.56%	1 744 0.13%	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	2 744	0 672	1 743	0 720	6 744	0 720	0 744	1 744	4 720	1 744	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	2 744 0.27% 0.27%	0 672 0.00% 0.14%	1 743 0.13%	0 720 0.00% 0.10%	6 744 0.81% 0.25%	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13%	4 720 0.56% 0.21%	1 744 0.13% 0.21%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
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	2 744 0.27% 0.27%	0 672 0.00% 0.14%	1 743 0.13% 0.14%	0 720 0.00% 0.10%	6 744 0.81% 0.25%	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13% 0.17%	4 720 0.56% 0.21%	1 744 0.13% 0.21%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
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	2 744 0.27% 0.27% 5 8,983	0 672 0.00% 0.14% 0 8,101	1 743 0.13% 0.14% 1 9,026	0 720 0.00% 0.10% 0 8,745	6 744 0.81% 0.25% 12 9,004	0 720 0.00% 0.21% 0 8,712	0 744 0.00% 0.18% 0 8,968	1 744 0.13%	4 720 0.56% 0.21% 9 8,701	1 744 0.13% 0.21% 2 9,006	0 721 0.00% 0.19% 0 8,712	0 744 0.00% 0.17% 0 9,063
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 5 8,983 0.06%	0 672 0.00% 0.14% 0 8,101 0.00%	1 743 0.13% 0.14% 1 9,026 0.01%	0 720 0.00% 0.10% 0 8,745 0.00%	6 744 0.81% 0.25% 12 9,004 0.13%	0 720 0.00% 0.21% 0 8,712 0.00%	0 744 0.00% 0.18% 0 8,968 0.00%	1 744 0.13% 0.17% 1 8,980 0.01%	4 720 0.56% 0.21% 9 8,701 0.10%	1 744 0.13% 0.21% 2 9,006 0.02%	0 721 0.00% 0.19% 0 8,712 0.00%	0 744 0.00% 0.17% 0 9,063 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	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 5 8,983	0 672 0.00% 0.14% 0 8,101	1 743 0.13% 0.14% 1 9,026	0 720 0.00% 0.10% 0 8,745	6 744 0.81% 0.25% 12 9,004	0 720 0.00% 0.21% 0 8,712	0 744 0.00% 0.18% 0 8,968	1 744 0.13% 0.17% 1 8,980	4 720 0.56% 0.21% 9 8,701	1 744 0.13% 0.21% 2 9,006	0 721 0.00% 0.19% 0 8,712	0 744 0.00% 0.17% 0 9,063
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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	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% 0.17% 0 9,063 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	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744	4 720 0.56% 0.21% 9 8,701 0.10% 0.04%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% 0.17% 0 9,063 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	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03%
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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 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	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05%
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	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05%
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 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	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05%

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









Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018 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 Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Zone Scheduled Zone Zone MHK VL DUNWOD **WEST** Jan-18 4,761 4,241 1,938 427 Jan-18 763 456 2,040 266 Jan-18 1,795 1,509 2,215 620 Feb-18 3,058 1,941 1,478 603 Feb-18 512 130 1,910 269 Feb-18 742 658 5,891 824 Mar-18 7,263 2.535 860 659 Mar-18 569 139 1,896 309 Mar-18 1,367 755 3.530 487 470 2,395 333 Apr-18 8,154 3,433 926 393 Apr-18 670 173 1,986 Apr-18 1,781 1,047 May-18 516 3,242 May-18 440 7,658 4,266 478 May-18 413 95 758 1,933 2,052 183 Jun-18 7,003 4,102 760 681 440 100 3,697 603 Jun-18 2,261 258 2,023 515 Jun-18 Jul-18 6.144 4,151 894 795 Jul-18 740 152 3,340 393 Jul-18 3,884 685 2,764 566 7,058 720 714 253 4,756 1,343 2,720 997 Aug-18 3,301 1,826 Aug-18 3,007 293 <u>Aug-18</u> Sep-18 7,300 3,587 869 527 863 185 411 Sep-18 2,694 742 3,280 448 Sep-18 2,513 Oct-18 5,715 2,202 894 580 Oct-18 1,510 162 1,958 434 Oct-18 3,682 1,342 2,108 1,157 2,031 883 Nov-18 5,127 608 Nov-18 1,791 72 1,628 345 Nov-18 1,743 1,789 2.644 191 Dec-18 Dec-18 Dec-18 GENESE 3,772 CAPITL N.Y.C. Jan-18 554 310 2,739 Jan-18 2,291 1,751 1,887 2,212 Jan-18 4,302 5,885 1,359 704 Feb-18 525 172 1.723 2.671 Feb-18 1.822 269 1.331 2.799 Feb-18 5.644 4,187 1.181 1.086 Mar-18 537 143 2,488 Mar-18 Mar-18 2,346 1,285 1,381 1,731 156 1,330 2,851 4,931 1,727 Apr-18 Apr-18 587 234 1,047 263 2,032 2,212 1,818 Apr-18 1,743 1,826 3,190 2,460 1,376 May-18 405 123 2,353 649 May-18 911 95 1,430 1,303 May-18 5,464 3,912 1,152 1,476 Jun-18 389 100 2,222 563 Jun-18 812 112 1,818 1,336 Jun-18 6,786 2,924 2.210 1.888 Jul-18 476 123 2,913 1,062 Jul-18 869 219 2,818 1,381 Jul-18 9,126 3,514 3,011 1,420 269 242 3,509 535 2,994 1,264 1,361 1,578 Aug-18 11,778 3,421 2,802 1,494 Aug-18 Aug-18 Sep-18 684 294 3,261 716 Sep-18 1,328 373 1,878 1,521 Sep-18 6,762 1,754 2,029 1,501 Oct-18 Oct-18 796 241 2.836 1,158 Oct-18 1.800 1,204 1.418 659 4,376 1,599 1.635 1.479 Nov-18 967 82 2,234 824 1,782 1,479 1,126 1,113 Nov-18 4,185 2,469 1,478 1,351 Nov-18 Dec-18 Dec-18 Dec-18 NORTH 8,259 HUD VL LONGIL 1.932 274 282 3,265 1,562 1.285 5,029 7,218 Jan-18 3,335 3.714 1.622 Jan-18 Jan-18 Feb-18 352 369 7,449 2,777 2,591 3,061 2,605 Feb-18 888 740 4,703 8,761 Feb-18 2,800 Mar-18 249 367 6,995 2,136 Mar-18 845 1,098 5,169 10,837 Mar-18 3,613 3,021 3,308 1,768 Apr-18 189 269 7,479 1,848 Apr-18 639 973 5,990 9,863 Apr-18 4,649 3,620 2,505 1,620 215 773 11,304 5,128 2,420 1,436 2.03 May-18 79 6,001 4,717 May-18 539 3,727 May-18 Jun-18 514 317 5,178 3,657 Jun-18 1,408 573 4,144 8,407 Jun-18 4,621 2,235 1,618 2,440 Jul-18 428 423 5,684 2,542 Jul-18 2,796 550 3,087 5,200 Jul-18 4,610 3,179 1,278 2,775 Aug-18 578 340 5,639 2,650 Aug-18 2.088 476 7,039 4.344 Aug-18 4,112 3,156 3,475 1,715 Sep-18 815 247 6,331 4,123 Sep-18 1,364 576 6,306 4,253 Sep-18 4,881 3,205 3,104 1,556 237 Oct-18 578 5,077 3,287 Oct-18 1,156 429 5,009 Oct-18 2,986 2,353 1,135 6,205 3,972 Nov-18 535 204 5,292 1,611 Nov-18 863 913 6,184 9,480 Nov-18 3,407 3,963 2,468 885 Dec-18 Dec-18 Dec-18 CENTRL Jan-18 983 434 28,975 647 MILLWD Jan-18 923 988 2,033 757 **NYISO** Jan-18 21,542 20,854 59,437 20,478 Feb-18 Feb-18 595 215 28,161 483 486 337 1,284 1,197 17,423 11,608 58,172 24,075 Feb-18 Mar-18 1,977 208 26,643 720 141 1,144 421 Mar-18 21,217 13,494 53,984 23,855 614 Mar-18 Apr-18 1,753 334 22,490 677 Apr-18 466 526 1.031 163 Apr-18 23.821 13.330 50.864 19.61 May-18 1,033 221 21,769 470 790 140 188 May-18 24,723 12,074 44,726 23,81 May-18 1,050 Jun-18 730 164 28,504 501 Jun-18 938 302 1,223 234 Jun-18 25,903 11,189 53,397 20,82 1,093 273 358 Jul-18 27,687 534 Jul-18 1,193 1,051 940 Jul-18 31,359 14,319 54,416 17,027 Aug-18 1,911 408 26,279 566 Aug-18 1,112 1,580 916 520 Aug-18 36,003 14,790 60,205 16,141

2,648

1,682

2,567

356

358

332

28,114

26,189

26,956

671

642

488

Sep-18

Oct-18

Nov-18

Dec-18

Sep-18

Oct-18

Nov-18

Dec-18

813

832

786

1,087

1,115

1,241

403

357

133

Sep-18

Oct-18

Nov-18

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12,132

11,590

14,121

58,770

51,789

52,134

16,130

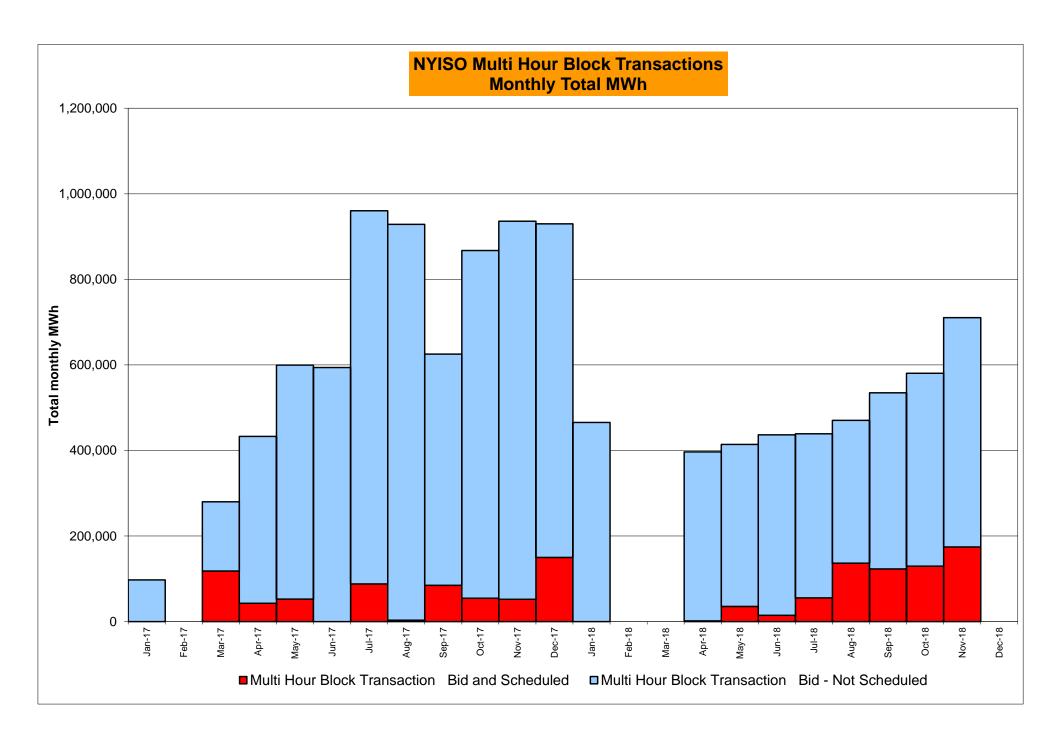
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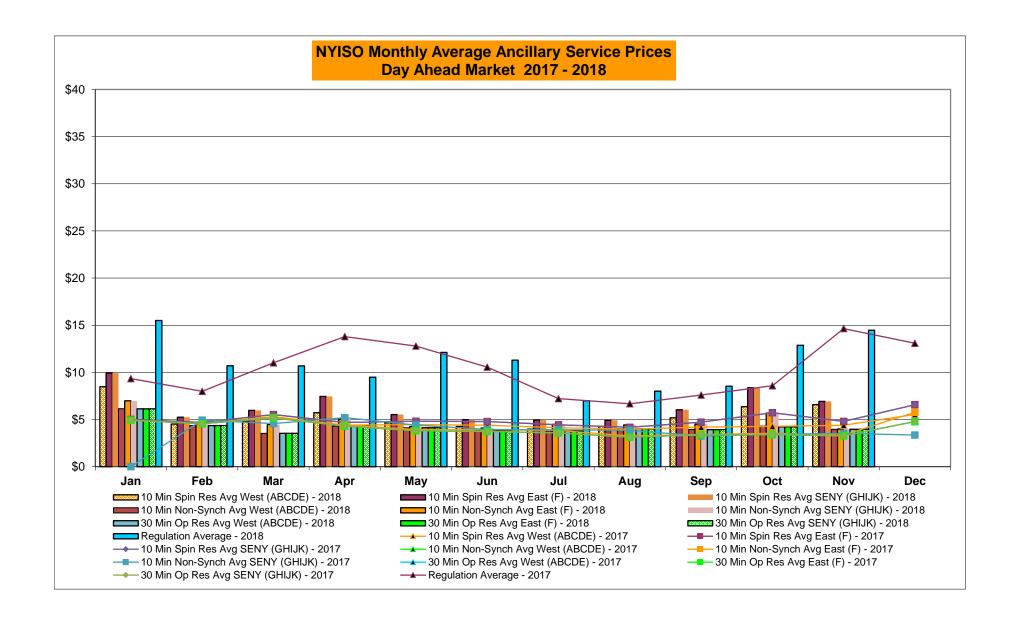
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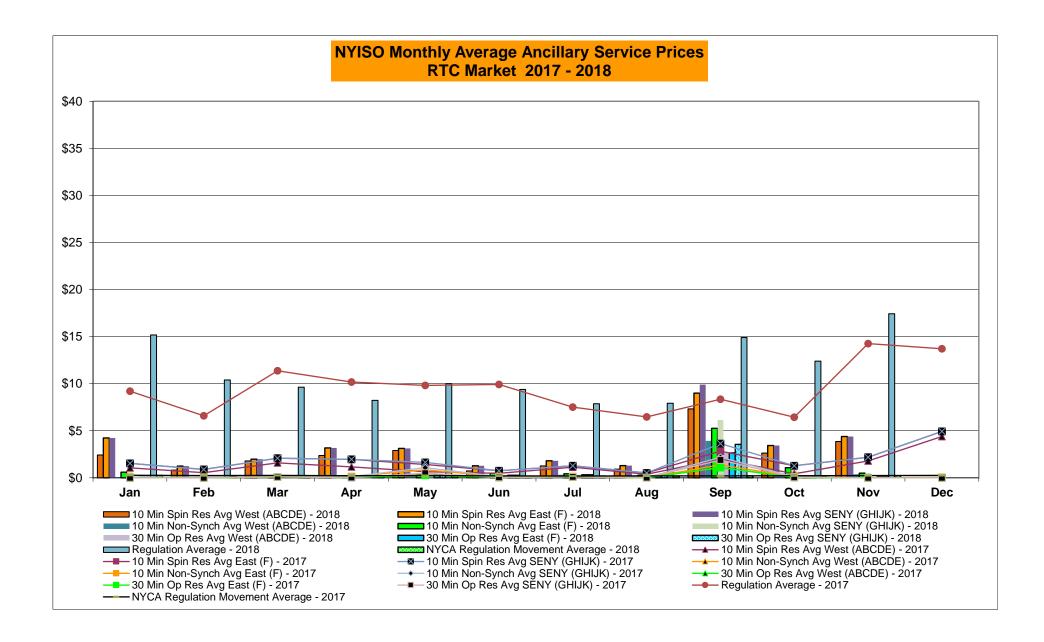
912

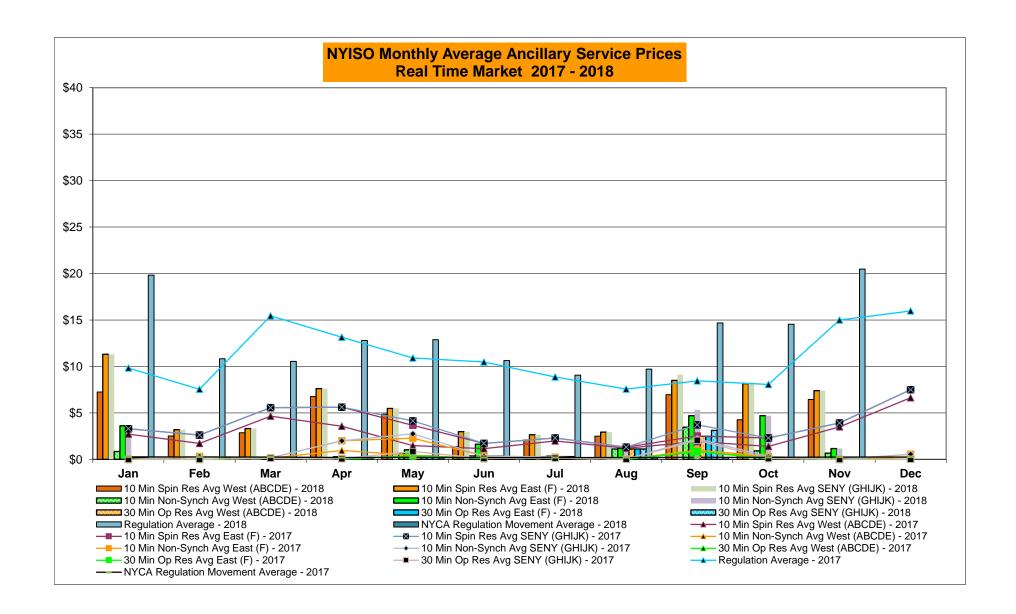
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570





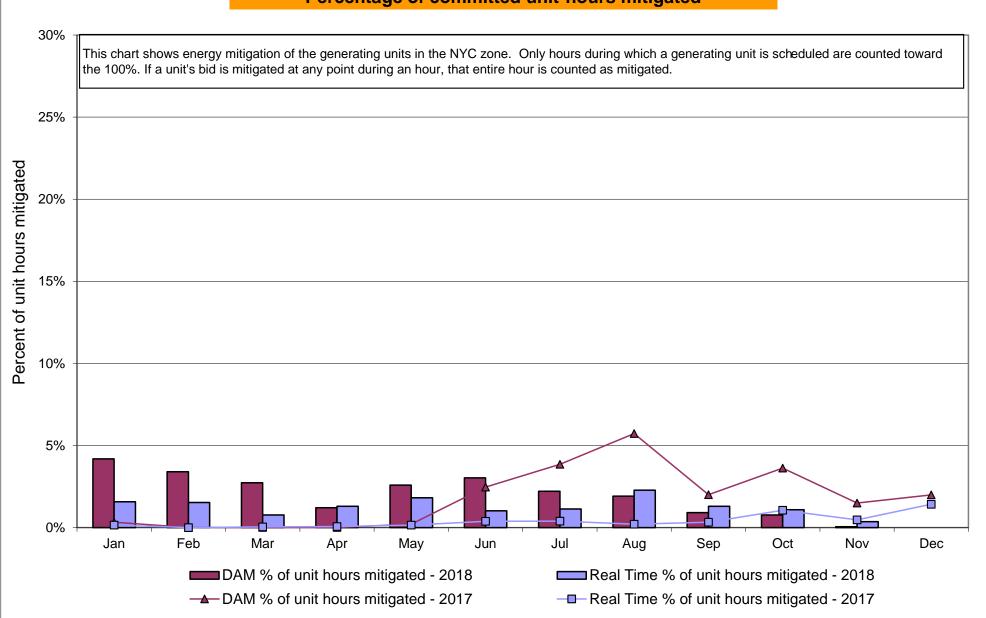


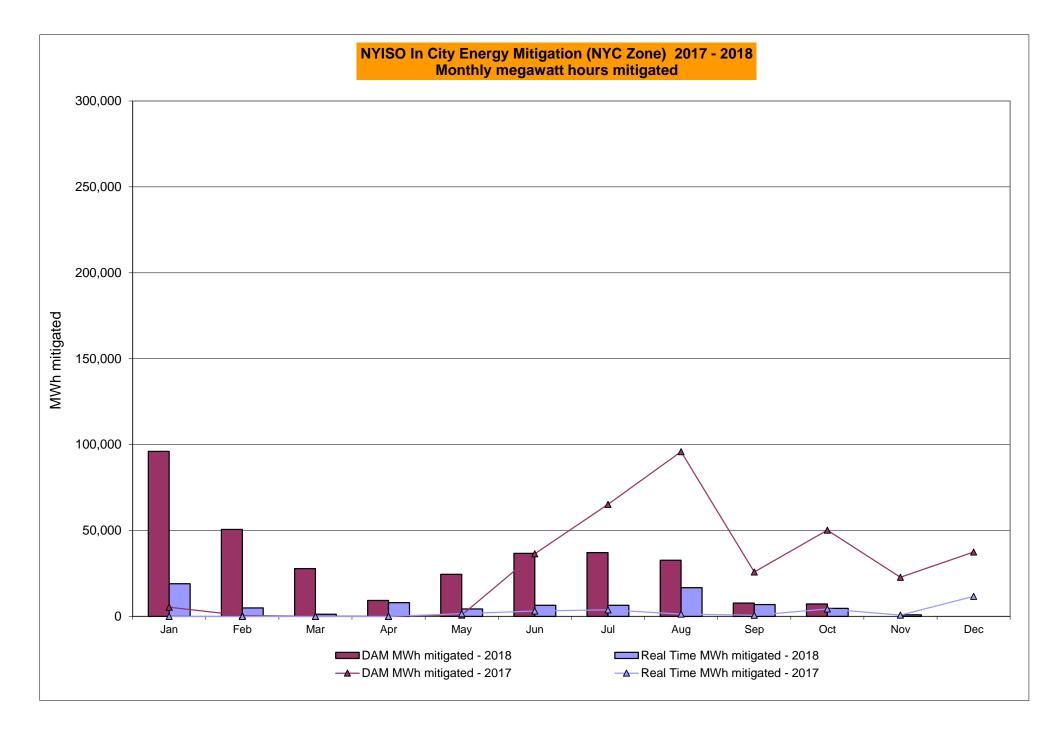


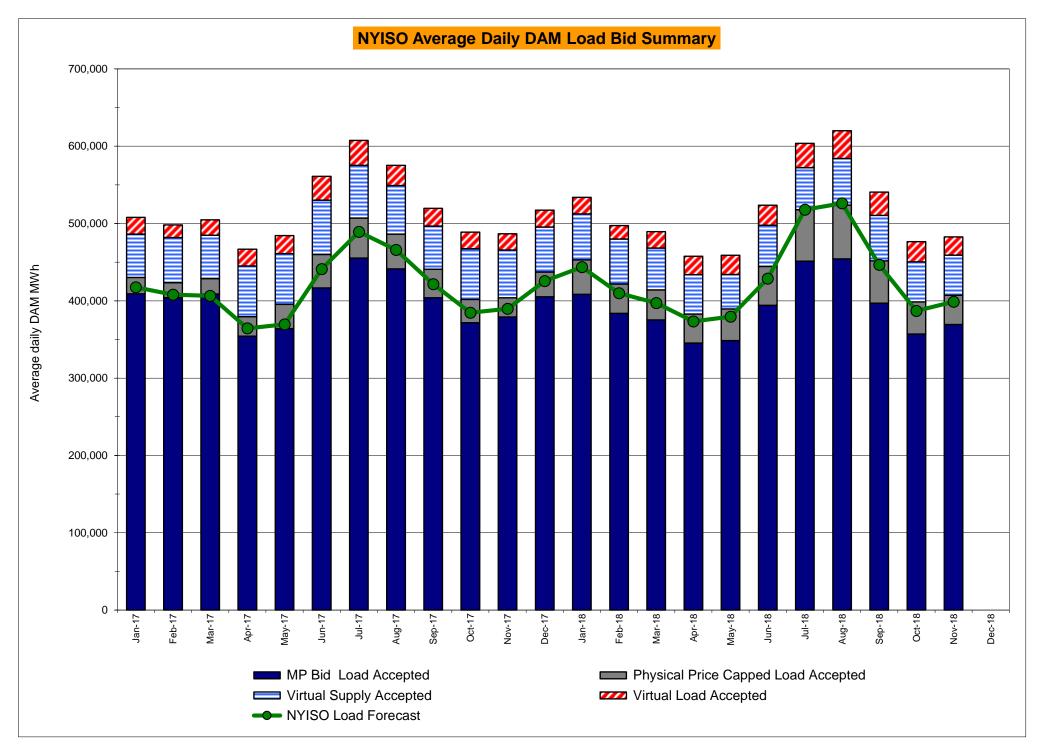
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

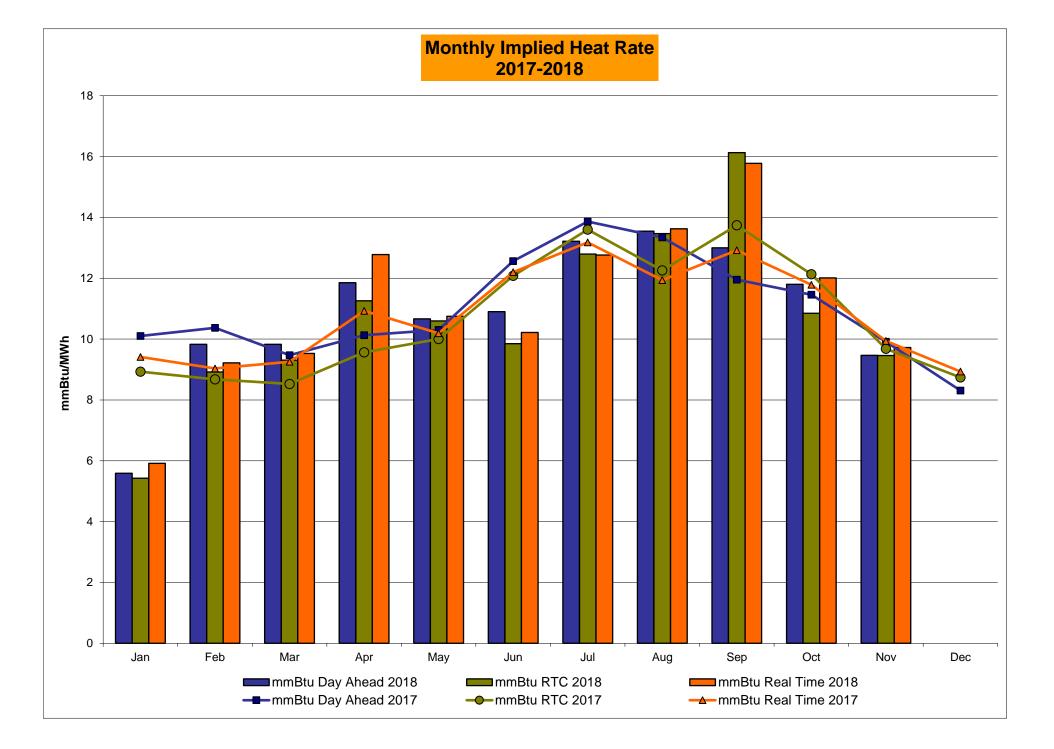
	<u> </u>	iarkets A	ilciliary S	er vices	Statistic	<u>s - Unwe</u>	<u>igntea r</u>	<u> </u>				
<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
Day Ahead Market	<u> </u>	<u> </u>	<u></u>	<u> </u>	<u>,</u>	<u> </u>	<u> </u>	<u>7.10.90.01</u>	<u> </u>	<u> </u>	<u></u>	<u></u>
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	
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	
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	
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	
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	
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	
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	
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	
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	
Regulation	15.51	10.70	10.68	9.49	12.11	11.30	6.99	8.00	8.54	12.88	14.47	
RTC Market												
10 Min Spin SENY (GHIJK)	4.00	1.04	1.00	2.47	2.42	1.00	1 01	1.20	0.00	2.42	4.20	
, ,	4.23 4.23	1.24 1.24	1.98 1.98	3.17 3.17	3.13 3.13	1.28 1.28	1.81 1.81	1.29 1.29	9.90 9.00	3.43	4.39	
10 Min Spin West (APCDE)	2.43		1.79			0.74				3.43 2.63	4.39	
10 Min Spin West (ABCDE)		0.82		2.38	2.91		1.27	0.93	7.33	2.63 1.07	3.85	
10 Min Non Synch SENY (GHIJK)	0.59	0.03	0.01	0.22	0.42	0.49	0.42	0.27	6.14		0.50	
10 Min Non Synch East (F)	0.59	0.03	0.01	0.22	0.42 0.33	0.49 0.27	0.42	0.27	5.25	1.07	0.50	
10 Min Non Synch West (ABCDE)	0.08 0.08	0.02	0.00 0.00	0.00 0.00	0.33	0.27	0.33 0.33	0.25 0.25	3.92	0.38 0.11	0.38	
30 Min SENY (GHIJK) 30 Min East (F)	0.08	0.02 0.02	0.00	0.00	0.32	0.27	0.33	0.25	3.55 2.65	0.11	0.09 0.09	
30 Min West (ABCDE)	0.08	0.02	0.00	0.00	0.32	0.27		0.25	2.65	0.11	0.09	
, ,	15.17	10.40	9.63	8.22	10.01	9.39	0.33 7.87	7.92	2.65 14.90	12.40	17.43	
Regulation 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	
	0.26	0.21	0.20	0.22	0.19	0.16	0.19	0.19	0.20	0.21	0.22	
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	
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	
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	
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	
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	
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	
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	
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	
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	
Regulation	19.82	10.82	10.54	12.80	12.88	10.62	9.06	9.71	14.67	14.54	20.48	
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	
2017	1	F.1	N.A	A'I	N.4		1		O a sala a a la a a	0.441.4	Name	Danasahan
2017	<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>
Day Ahead Market								<u>August</u>				
<u>Day Ahead Market</u> 10 Min Spin SENY (GHIJK)	5.01	5.38	5.04	6.31	4.93	4.62	6.41	August 7.12	5.57	5.37	4.83	4.89
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	5.01 5.01	5.38 5.38	5.04 5.04	6.31 6.31	4.93 4.93	4.62 4.62	6.41 6.41	August 7.12 7.12	5.57 5.57	5.37 5.37	4.83 4.83	4.89 4.89
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	5.01 5.01 4.94	5.38 5.38 5.25	5.04 5.04 4.84	6.31 6.31 5.60	4.93 4.93 4.77	4.62 4.62 4.52	6.41 6.41 5.78	August 7.12 7.12 6.20	5.57 5.57 5.14	5.37 5.37 4.89	4.83 4.83 4.50	4.89 4.89 4.73
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	5.01 5.01 4.94 4.94	5.38 5.38 5.25 5.25	5.04 5.04 4.84 4.88	6.31 6.31 5.60 5.80	4.93 4.93 4.77 4.83	4.62 4.62 4.52 4.36	6.41 6.41 5.78 6.34	7.12 7.12 6.20 7.07	5.57 5.57 5.14 5.52	5.37 5.37 4.89 5.09	4.83 4.83 4.50 4.43	4.89 4.89 4.73 4.49
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	5.01 5.01 4.94 4.94 4.94	5.38 5.38 5.25 5.25 5.25	5.04 5.04 4.84 4.88 4.88	6.31 6.31 5.60 5.80 5.80	4.93 4.93 4.77 4.83 4.83	4.62 4.62 4.52 4.36 4.36	6.41 6.41 5.78 6.34 6.34	7.12 7.12 7.12 6.20 7.07 7.07	5.57 5.57 5.14 5.52 5.52	5.37 5.37 4.89 5.09 5.09	4.83 4.83 4.50 4.43 4.43	4.89 4.89 4.73 4.49 4.49
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	5.01 5.01 4.94 4.94 4.94 4.92	5.38 5.38 5.25 5.25 5.25 5.25	5.04 5.04 4.84 4.88 4.88 4.84	6.31 6.31 5.60 5.80 5.80 5.58	4.93 4.93 4.77 4.83 4.83 4.68	4.62 4.62 4.52 4.36 4.36 4.32	6.41 6.41 5.78 6.34 6.34 5.72	7.12 7.12 6.20 7.07 7.07 6.15	5.57 5.57 5.14 5.52 5.52 5.10	5.37 5.37 4.89 5.09 5.09 4.82	4.83 4.83 4.50 4.43 4.43	4.89 4.89 4.73 4.49 4.49 4.43
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	6.31 6.31 5.60 5.80 5.80 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	6.31 6.31 5.60 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	6.31 6.31 5.60 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43 13.80
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 13.80
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 0.99	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 7.26 6.88 4.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 9.05	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.17 0.00 0.00 0.00 0.00 7.15	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 6.86	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) Regulation NYCA Regulation Movement	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) Regulation NYCA Regulation Movement Real Time Market	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 0.27	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 0.27	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 1.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 1.43 1.43	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 1.96 1.96	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.15 0.25	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 1.43 1.40 1.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 1.96 1.96 1.16	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.18 0.19	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.19	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24 1.59 0.90 0.59	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.19	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.06 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24 1.59 1.59 0.59 0.59 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 1.96 1.16 0.18 0.18 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.86 0.21 1.12 1.12 1.12 0.58 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.19 0.25	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 9.21 0.27 3.29 3.29 2.71 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 6.86 0.21 1.12 1.12 0.58 0.00 0.00 0.00 0.00 0.00 0.00 0.01	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.15 0.16 0.17 0.25 4.34 4.35 6.25	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.26 1.96 1.16 0.18 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.86 0.21 1.12 1.12 0.58 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 0.25	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 3.12	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26 1.96 1.16 0.18 0.11 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 9.21 0.27 3.29 3.29 2.71 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 6.86 0.21 1.12 1.12 0.58 0.00 0.00 0.00 0.00 0.00 0.00 0.01	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.15 0.16 0.17 0.25 4.34 4.35 6.25	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.26 1.96 1.16 0.18 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00

NYISO In City Energy Mitigation - AMP (NYC Zone) 2017 - 2018 Percentage of committed unit-hours mitigated

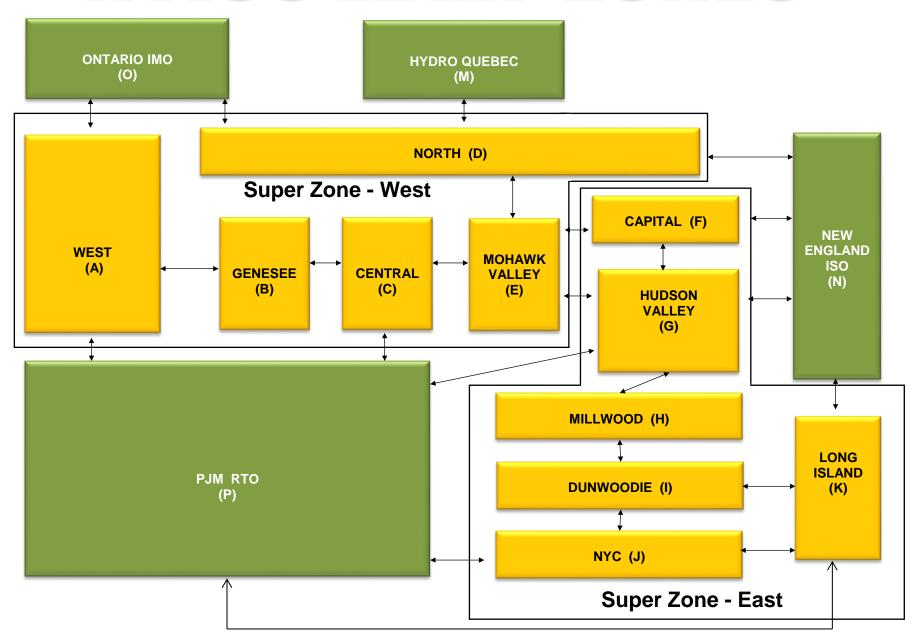








NYISO LBMP ZONES



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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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The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits 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 policy makers, stakeholders and investors in the power system



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

Upcoming Compliance Filings

Filing Due Date	Upcoming Compliance Filings (Description)	Docket Number

Recently Issued Orders

Filing	Filing Summary	Docket	Order	Order
Date	(Order Issued)	Number	Date	Summary
	NYISO 205 filing re: revisions to rules by which the			
06/05/2018	locational minimum installed capacity requirement for			
08/09/2018	each locality will be determined	ER18-1743-001	10/05/2018	Order accepted revisions effective 10/09/2018
07/13/2018	NYISO filing to the NYPSC re: petition for authority to	PSC Case no.		Order granted request to incur indebtedness subject
08/07/2018	incur indebtedness for a term in excess of twelve month	18-E-0439	11/16/2018	to compliance obligations
	NYISO and PJM joint filing re: limited waiver request of			
	the Market-to-Market redispatch requirements in the			Order granted waiver request effective 09/18/18, as
09/17/2018	NYISO/PJM Joint Operating Agreement	ER18-2442-000	11/19/2018	requested
	NYISO 205 filing re: use of constraint reliability margin			Order accepted revisions effective 11/21/2018, as
09/21/2018	values less than 20 MW	ER18-2460-000	10/31/2018	requested
	NYISO compliance filing re: notice of effective date for			Order accepted 10/31/2018 effective date, as
10/16/2018	Order No. 745 demand response tariff revisions	ER11-4338-002	11/26/2018	requested
	NYISO 205 filing re: revisions to OATT Attachment L			
	Table 1A concerning existing long term transmission			Order accepted revisions effective 12/18/18, as
10/18/2018	service agreements	ER19-138-000	12/04/2018	requested

Recently Submitted Filings

Filing	Filing Summary	Docket
Date		Number
	NYISO/PJM joint filing re: answer to the comments and protest of Panda Power Generation Infrastructure Fund, LLC	
10/24/2018	concerning a joint NYISO/PJM request for limited waivers of the Joint Operating Agreement between NYISO and PJM	ER18-2442-000

FINAL

11/07/2018	NYISO filing re: notice of termination of Ameristar Energy, LLC from the ISO-Administered Markets	No Docket No.
11/09/2018	NYISO 205 filing re: unsecured credit scoring model revisions	ER19-315-000
11/15/2018	NYISO Order 844 amended compliance filing re: reporting of uplift paid to Suppliers at external proxy generator buses	ER18-2400-001
11/27/2018	NYISO filing re: notice of termination of Clear Choice Energy, LLC from the ISO-Administered Markets	No Docket No.
11/28/2018	NYISO filing to the NYPSC re: letter stating unconditional acceptance of the 11/16/2018 order granting its request to incur indebtedness for a term in excess of twelve months subject to compliance obligations	PSC Case No. 18-E-0439
11/29/2018	NYISO filing re: request for extension of time to file Form No. 3-Q, Quarterly Financial Report of Electric Utilities, Licensees, and Natural Gas Companies	RM08-5-000
12/03/2018	NYISO compliance filing re: Order No. 841 energy storage resources	ER19-467-000
12/04/2018	NYISO compliance filing re: effective date for Order 831 offer cap tariff revisions	ER17-1561-002
12/07/2018	NYISO filing re: letter informing FERC of its successful filing of Form 3-Q	RM08-5-000
12/07/2018	NYISO confidential filing to the NYPSC re: 5-year capital plan for the period 2019-2023	PSC Case No. 12-E-0168
12/11/2018	NYISO 205 filing re: OATT Attachment Y revisions to the public policy transmission planning process and the non-incumbent transmission owner operating agreement	ER19-528-000