NYISO CEO/COO Report

Richard Dewey

President & Chief Executive Officer

Rick Gonzales

Senior Vice President & Chief Operating Officer

Management Committee Meeting

June 4, 2019 The Sagamore, Bolton Landing, NY



NYISO CEO/COO Report

CEO Report

COO Report

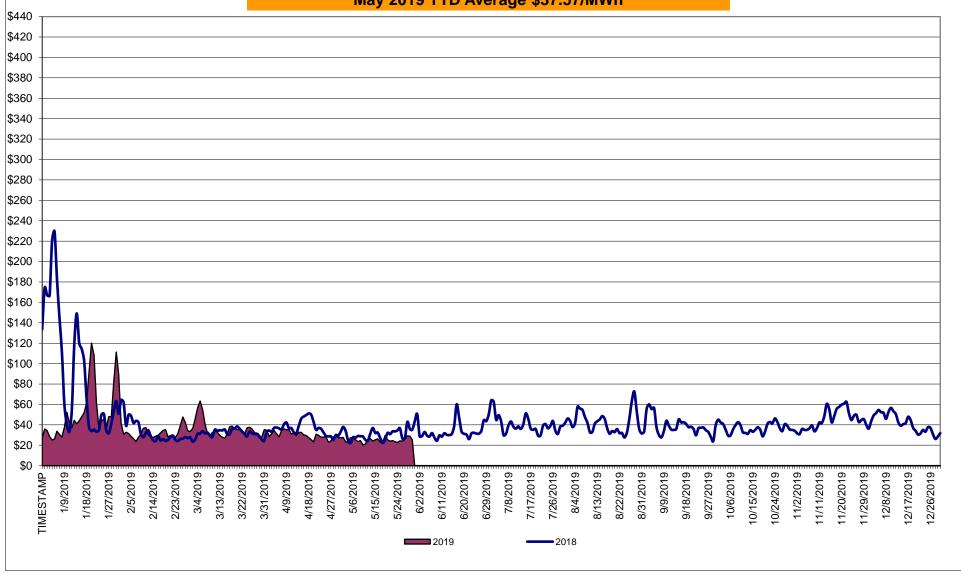
- Market Performance Highlights For Information Only
- Operations Performance Metrics Monthly Report



Market Performance Highlights May 2019

- LBMP for May is \$23.10/MWh; lower than \$28.01/MWh in April 2019 and \$28.78/MWh in May 2018.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to April.
- May 2019 average year-to-date monthly cost of \$37.57/MWh is a 25% decrease from \$50.20/MWh in May 2018.
- Average daily sendout is 373 GWh/day in May; higher than 371 GWh/day in April 2019 and lower than 397 GWh/day in May 2018.
- Natural gas prices were lower and distillate prices were mixed compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$2.27/MMBtu, down from \$2.37/MMBtu in April.
 - Natural gas prices are down 11.0% year-over-year.
 - Jet Kerosene Gulf Coast was \$14.64/MMBtu, up from \$14.63/MMBtu in April.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.54/MMBtu, down from \$14.72/MMBtu in April.
 - Distillate prices are down 8.5% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is \$0.13/MWh; higher than (\$0.15)/MWh in April.
 - Local Reliability Share is \$0.23/MWh, higher than \$0.20/MWh in April.
 - Statewide Share is (\$0.11)/MWh, higher than (\$0.35)/MWh in April.
 - TSA \$ per NYC MWh is \$0.19/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than April.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)* 2018 Annual Average \$44.92/MWh May 2018 YTD Average \$50.20/MWh May 2019 YTD Average \$37.57/MWh

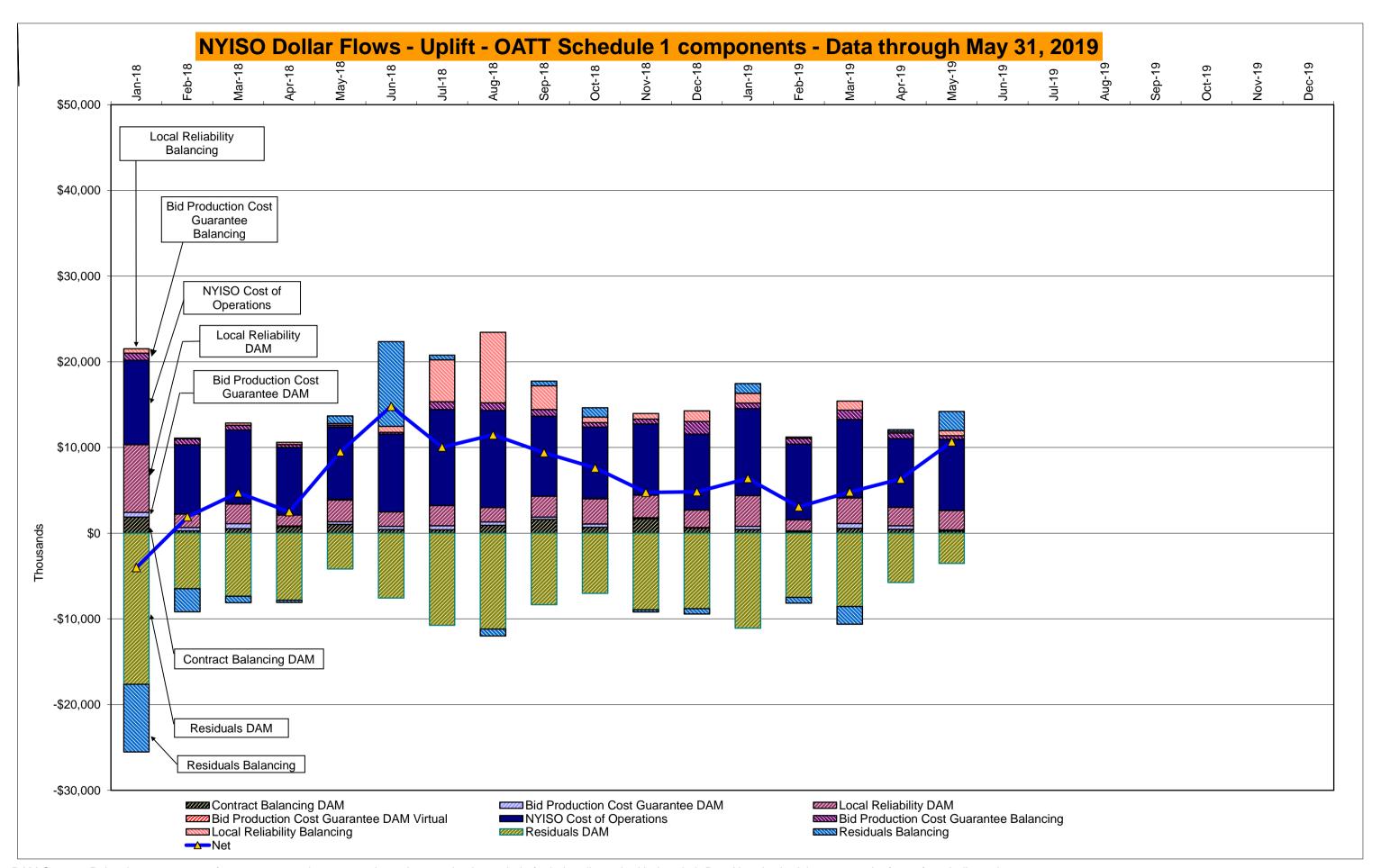


^{*} Excludes ICAP payments.

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

2019	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
LBMP	50.93	33.51	34.91	28.01	23.10							
NTAC	0.51	0.69	0.98	1.16	0.72							
Reserve	0.54	0.51	0.55	0.63	0.63							
Regulation	0.13	0.11	0.10	0.33	0.13							
NYISO Cost of Operations	0.68	0.68	0.69	0.69	0.68							
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.10							
Uplift	(0.25)	(0.44)	(0.33)	(0.15)	0.13							
Uplift: Local Reliability Share	0.32	0.11	0.31	0.20	0.23							
Uplift: Statewide Share	(0.57)	(0.55)	(0.64)	(0.35)	(0.11)							
Voltage Support and Black Start _	0.37	0.37	0.38	0.38	0.38							
Avg Monthly Cost	52.99	35.51	37.38	31.16	25.88							
Avg YTD Cost	52.99	44.93	42.54	40.12	37.57							
AVG TID Cost	52.99	44.93	42.54	40.12	37.37							
TSA \$ per NYC MWh	0.00	0.00	0.01	0.01	0.19							
2018	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	<u>September</u>	October	<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	40.31
NTAC	0.71	0.58	0.88	1.09				0.72			1.18	0.93
Reserve				1.09	0.88	1.00	0.93	0.72	0.40	0.36	1.10	0.93
1/696176	0.92	0.65	0.64	0.81	0.88 0.68	1.00 0.57	0.93 0.49		0.40 0.52	0.36 0.80		
	0.92 0.15	0.65 0.15			0.88 0.68 0.14			0.72 0.51 0.09			0.66 0.17	0.54 0.17
Regulation NYISO Cost of Operations			0.64	0.81	0.68	0.57	0.49	0.51	0.52	0.80	0.66	0.54
Regulation	0.15	0.15	0.64 0.16	0.81 0.12	0.68 0.14	0.57 0.16	0.49 0.09	0.51 0.09	0.52 0.09	0.80 0.16	0.66 0.17	0.54 0.17
Regulation NYISO Cost of Operations	0.15 0.65	0.15 0.65	0.64 0.16 0.66	0.81 0.12 0.65	0.68 0.14 0.66	0.57 0.16 0.67	0.49 0.09 0.67	0.51 0.09 0.66	0.52 0.09 0.66	0.80 0.16 0.63	0.66 0.17 0.63	0.54 0.17 0.63
Regulation NYISO Cost of Operations FERC Fee Recovery	0.15 0.65 0.08	0.15 0.65 0.10	0.64 0.16 0.66 0.09	0.81 0.12 0.65 0.10	0.68 0.14 0.66 0.09	0.57 0.16 0.67 0.09	0.49 0.09 0.67 0.06	0.51 0.09 0.66 0.06	0.52 0.09 0.66 0.08	0.80 0.16 0.63 0.09	0.66 0.17 0.63 0.09	0.54 0.17 0.63 0.08
Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	0.15 0.65 0.08 (0.92)	0.15 0.65 0.10 (0.50)	0.64 0.16 0.66 0.09 (0.31)	0.81 0.12 0.65 0.10 (0.45)	0.68 0.14 0.66 0.09 0.05	0.57 0.16 0.67 0.09 0.30	0.49 0.09 0.67 0.06 (0.13)	0.51 0.09 0.66 0.06 (0.02)	0.52 0.09 0.66 0.08 (0.11)	0.80 0.16 0.63 0.09 (0.30)	0.66 0.17 0.63 0.09 (0.27)	0.54 0.17 0.63 0.08 (0.29)
Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	0.15 0.65 0.08 (0.92) 0.59	0.15 0.65 0.10 (0.50) 0.14	0.64 0.16 0.66 0.09 (0.31) 0.19	0.81 0.12 0.65 0.10 (0.45) 0.12	0.68 0.14 0.66 0.09 0.05 0.22	0.57 0.16 0.67 0.09 0.30 0.18	0.49 0.09 0.67 0.06 (0.13) 0.44	0.51 0.09 0.66 0.06 (0.02) 0.59	0.52 0.09 0.66 0.08 (0.11) 0.37	0.80 0.16 0.63 0.09 (0.30) 0.27	0.66 0.17 0.63 0.09 (0.27) 0.25	0.54 0.17 0.63 0.08 (0.29) 0.23
Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	0.15 0.65 0.08 (0.92) 0.59 (1.52)	0.15 0.65 0.10 (0.50) 0.14 (0.64)	0.64 0.16 0.66 0.09 (0.31) 0.19 (0.51)	0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57)	0.68 0.14 0.66 0.09 0.05 0.22 (0.17)	0.57 0.16 0.67 0.09 0.30 0.18 0.12	0.49 0.09 0.67 0.06 (0.13) 0.44 (0.57)	0.51 0.09 0.66 0.06 (0.02) 0.59 (0.61)	0.52 0.09 0.66 0.08 (0.11) 0.37 (0.48)	0.80 0.16 0.63 0.09 (0.30) 0.27 (0.56)	0.66 0.17 0.63 0.09 (0.27) 0.25 (0.52)	0.54 0.17 0.63 0.08 (0.29) 0.23 (0.52)
Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	0.15 0.65 0.08 (0.92) 0.59 (1.52) 0.40	0.15 0.65 0.10 (0.50) 0.14 (0.64) 0.41	0.64 0.16 0.66 0.09 (0.31) 0.19 (0.51) 0.42	0.81 0.12 0.65 0.10 (0.45) 0.12 (0.57) 0.41	0.68 0.14 0.66 0.09 0.05 0.22 (0.17) 0.42	0.57 0.16 0.67 0.09 0.30 0.18 0.12 0.42	0.49 0.09 0.67 0.06 (0.13) 0.44 (0.57) 0.42	0.51 0.09 0.66 0.06 (0.02) 0.59 (0.61) 0.42	0.52 0.09 0.66 0.08 (0.11) 0.37 (0.48) 0.42	0.80 0.16 0.63 0.09 (0.30) 0.27 (0.56) 0.40	0.66 0.17 0.63 0.09 (0.27) 0.25 (0.52) 0.40	0.54 0.17 0.63 0.08 (0.29) 0.23 (0.52) 0.40

^{*} Excludes ICAP payments. Market Mitigation and Analysis Prepared: 6/11/2019 2:35 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>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	15,299,458	13,391,383	13,527,834		12,521,583				-			
DAM LSE Internal LBMP Energy Sales	57%	57%	59%	59%	57%							
DAM External TC LBMP Energy Sales	6%	5%	3%	1%	3%							
DAM Bilateral - Internal Bilaterals	29%	30%	30%	31%	32%							
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	5%	6%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	2%	2%							
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	1%							
Balancing Energy Market MWh	-322,442	-323,188	-261,217	-218,482	-392,699							
Balancing Energy LSE Internal LBMP Energy Sales	-120%	-126%	-138%	-178%	-150%							
Balancing Energy External TC LBMP Energy Sales	65%	67%	82%	113%	68%							
Balancing Energy Bilateral - Internal Bilaterals	-4%	-1%	-3%	2%	1%							
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	3%	7%	6%	7%	2%							
Balancing Energy Bilateral - Wheel Through Bilaterals	-45%	-47%	-47%	-44%	-21%							
Transactions Summary												
LBMP	63%	62%	61%	60%	59%							
Internal Bilaterals	29%	30%	30%	31%	33%							
Import Bilaterals	5%	5%	6%	6%	6%							
Export Bilaterals	1%	2%	2%	2%	2%							
Wheels Through	1%	1%	1%	1%	0%							
Market Share of Total Load	.,,	. , ,	. 70	. , ,	<u> </u>							
Day Ahead Market	102.2%	102.5%	102.0%	101.9%	103.2%							
Balancing Energy +	-2.2%	-2.5%	-2.0%	-1.9%	-3.2%							
Total MWH	14,977,016	13,068,195	13,266,617		12,128,884							
Average Daily Energy Sendout/Month GWh	449	436	411	371	373							
Average Daily Energy Schasar Mohiti Svvii	445	+30	711	371	373							
<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>	November	<u>December</u>
2018 Day Ahead Market MWh	<u>January</u> 15,153,751	<u>February</u> 12,643,854	<u>March</u> 13,521,386	<u>April</u> 12,158,686	<u>May</u> 12,721,073	<u>June</u> 13,983,384	<u>July</u> 16,839,994	<u>August</u> 17,195,447	<u>September</u> 14,432,632	October 13,548,828	November 13,506,134	<u>December</u> 14,450,460
						<u> </u>	-					
Day Ahead Market MWh	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073	13,983,384	16,839,994	17,195,447	14,432,632	13,548,828	13,506,134	14,450,460
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	15,153,751 59%	12,643,854 57%	13,521,386 58%	12,158,686 60%	12,721,073 61%	13,983,384 61%	16,839,994 65%	17,195,447 65%	14,432,632 61%	13,548,828 57%	13,506,134 58%	14,450,460 56%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	15,153,751 59% 4%	12,643,854 57% 3%	13,521,386 58% 2%	12,158,686 60% 2%	12,721,073 61% 2%	13,983,384 61% 1%	16,839,994 65% 1%	17,195,447 65% 2%	14,432,632 61% 3%	13,548,828 57% 6%	13,506,134 58% 6%	14,450,460 56% 6%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	15,153,751 59% 4% 29%	12,643,854 57% 3% 31%	13,521,386 58% 2% 32%	12,158,686 60% 2% 30%	12,721,073 61% 2% 29%	13,983,384 61% 1% 30%	16,839,994 65% 1% 26%	17,195,447 65% 2% 25%	14,432,632 61% 3% 28%	13,548,828 57% 6% 29%	13,506,134 58% 6% 30%	14,450,460 56% 6% 30%
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	15,153,751 59% 4% 29% 5%	12,643,854 57% 3% 31% 5%	13,521,386 58% 2% 32% 5%	12,158,686 60% 2% 30% 5%	12,721,073 61% 2% 29% 5%	13,983,384 61% 1% 30% 5%	16,839,994 65% 1% 26% 4%	17,195,447 65% 2% 25% 4%	14,432,632 61% 3% 28% 5%	13,548,828 57% 6% 29% 5%	13,506,134 58% 6% 30% 2%	14,450,460 56% 6% 30% 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	15,153,751 59% 4% 29% 5% 2%	12,643,854 57% 3% 31% 5% 2%	13,521,386 58% 2% 32% 5% 2%	12,158,686 60% 2% 30% 5% 2%	12,721,073 61% 2% 29% 5% 2%	13,983,384 61% 1% 30% 5% 1%	16,839,994 65% 1% 26% 4% 1%	17,195,447 65% 2% 25% 4% 1%	14,432,632 61% 3% 28% 5% 1%	13,548,828 57% 6% 29% 5% 2%	13,506,134 58% 6% 30% 2% 2%	14,450,460 56% 6% 30% 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	15,153,751 59% 4% 29% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2%	13,521,386 58% 2% 32% 5% 2% 2%	12,158,686 60% 2% 30% 5% 2% 2%	12,721,073 61% 2% 29% 5% 2% 2%	13,983,384 61% 1% 30% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2%	17,195,447 65% 2% 25% 4% 1% 2%	14,432,632 61% 3% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1%	14,450,460 56% 6% 30% 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619	12,643,854 57% 3% 31% 5% 2% 2% -299,377	13,521,386 58% 2% 32% 5% 2% 2% -386,811	12,158,686 60% 2% 30% 5% 2% 2% -72,862	12,721,073 61% 2% 29% 5% 2% 2% -29,539	13,983,384 61% 1% 30% 5% 1% 2% -354,112	16,839,994 65% 1% 26% 4% 1% 2% -80,438	17,195,447 65% 2% 25% 4% 1% 2% -44,732	14,432,632 61% 3% 28% 5% 1% 2% -210,436	13,548,828 57% 6% 29% 5% 2% 1% -314,885	13,506,134 58% 6% 30% 2% 2% 1% -304,277	14,450,460 56% 6% 30% 5% 2% 2% -428,748
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94%
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27%
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3%
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 - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0%
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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 - 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 29% 5% 29% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 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 - 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 - 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 Export Bilaterals Wheels Through Market Share of Total Load	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1% 102.4% -2.4%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1% 102.9% -2.9%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 29% 5% 29% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1% 100.2% -0.2%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2% 102.6% -2.6%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1% 100.5% -0.5%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1% 1%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1% 102.4% -2.4%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% -36% 61% 31% 5% 2% 1% 103.1% -3.1%
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 - 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 +	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 29% 5% 29% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1% 1%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 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.

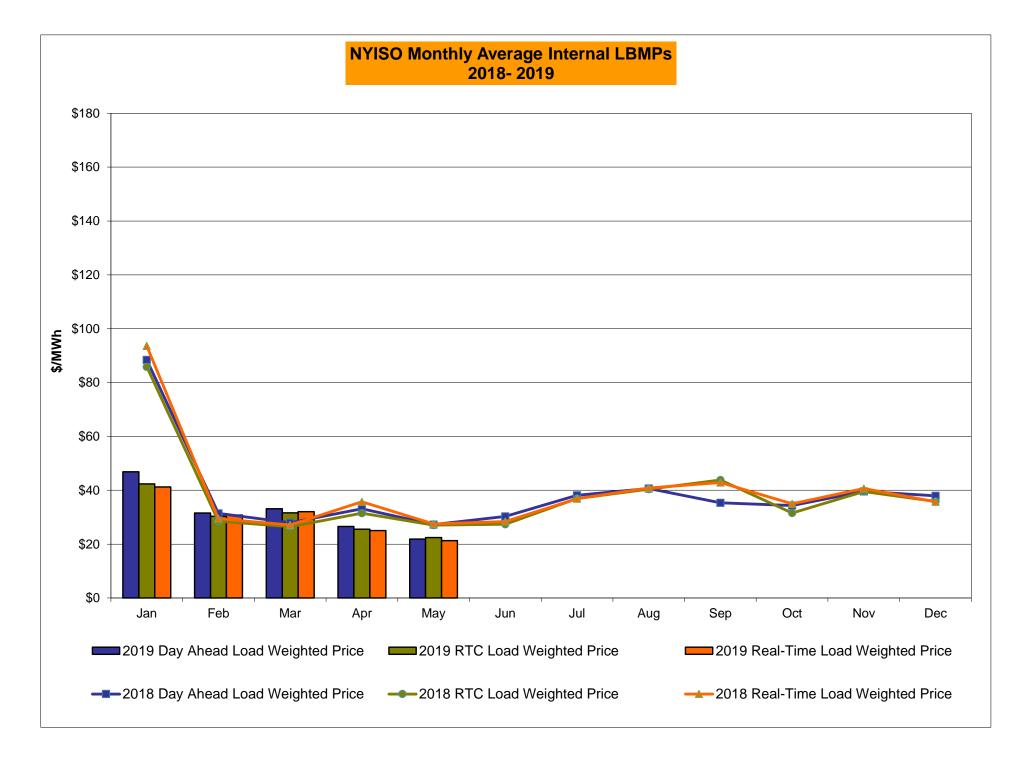
NYISO Markets 2019 Energy Statistics

	<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 *	\$45.01	\$30.66	\$32.34	\$25.97	\$21.16				
Standard Deviation	\$25.67	\$12.86	\$9.30	\$6.32	\$5.89				
Load Weighted Price **	\$46.88	\$31.53	\$33.14	\$26.57	\$21.89				
RTC LBMP									
Price *	\$40.86	\$29.74	\$31.04	\$25.07	\$21.88				
Standard Deviation	\$23.02	\$10.79	\$8.48	\$7.53	\$8.01				
Load Weighted Price **	\$42.39	\$30.32	\$31.62	\$25.54	\$22.44				
REAL TIME LBMP									
Price *	\$39.54	\$30.13	\$31.46	\$24.47	\$20.56				
Standard Deviation	\$26.03	\$13.77	\$12.54	\$17.27	\$10.35				
Load Weighted Price **	\$41.24	\$30.80	\$32.06	\$25.06	\$21.28				
Average Daily Energy Sendout/Month GWh	449	436	411	371	373				

NYISO Markets 2018 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	August S	September	October	November [<u>December</u>
DAY AHEAD LBMP	***	***	407.07	000.40	40-0-	000 44	000	400.00	# 00.00	4 00 0 -	*	# 00.00
Price *	\$83.53	\$30.37	\$27.37	\$32.40	\$25.97	\$28.41	\$35.73	\$38.00	\$33.28	\$33.27	\$38.36	\$36.88
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25	\$16.51	\$12.01	\$9.24	\$11.36	\$11.61
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26	\$30.27	\$38.14	\$40.64	\$35.33	\$34.33	\$39.55	\$37.96
RTC LBMP												
Price *	\$81.65	\$27.73	\$25.99	\$30.80	\$25.40	\$26.06	\$34.65	\$38.13	\$39.52	\$30.92	\$38.37	\$35.01
Standard Deviation	\$60.83	\$11.96	\$8.99	\$14.30	\$20.37	\$12.78	\$17.44	\$20.05	\$61.50	\$13.43	\$17.24	\$12.27
Load Weighted Price **	\$85.85	\$28.54	\$26.46	\$31.47	\$27.08	\$27.35	\$36.93	\$40.40	\$43.83	\$31.55	\$39.53	\$35.84
REAL TIME LBMP												
Price *	\$87.94	\$28.50	\$26.49	\$34.53	\$25.57	\$26.31	\$34.34	\$38.07	\$38.15	\$33.88	\$39.18	\$34.74
Standard Deviation	\$87.41	\$17.36	\$12.25	\$26.57	\$23.49	\$24.34	\$18.44	\$27.21	\$46.81	\$37.42	\$26.15	\$17.44
Load Weighted Price **	\$93.59	\$29.49	\$27.09	\$35.72	\$27.47	\$28.38	\$36.84	\$40.87	\$42.87	\$34.94	\$40.63	\$35.70
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537	458	399	411	425

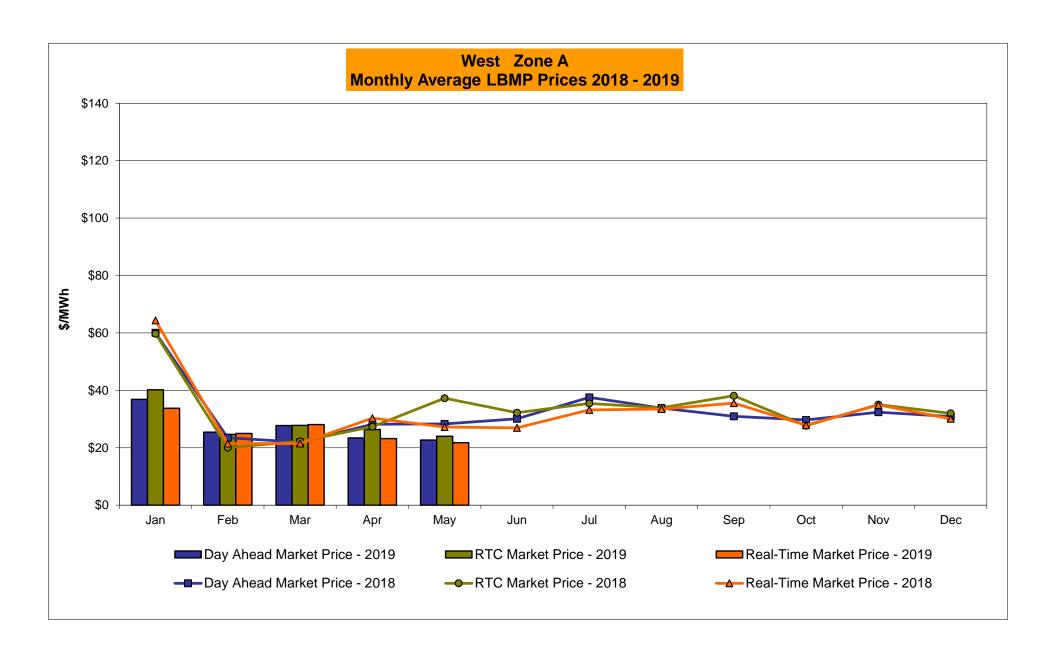
^{*} Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.

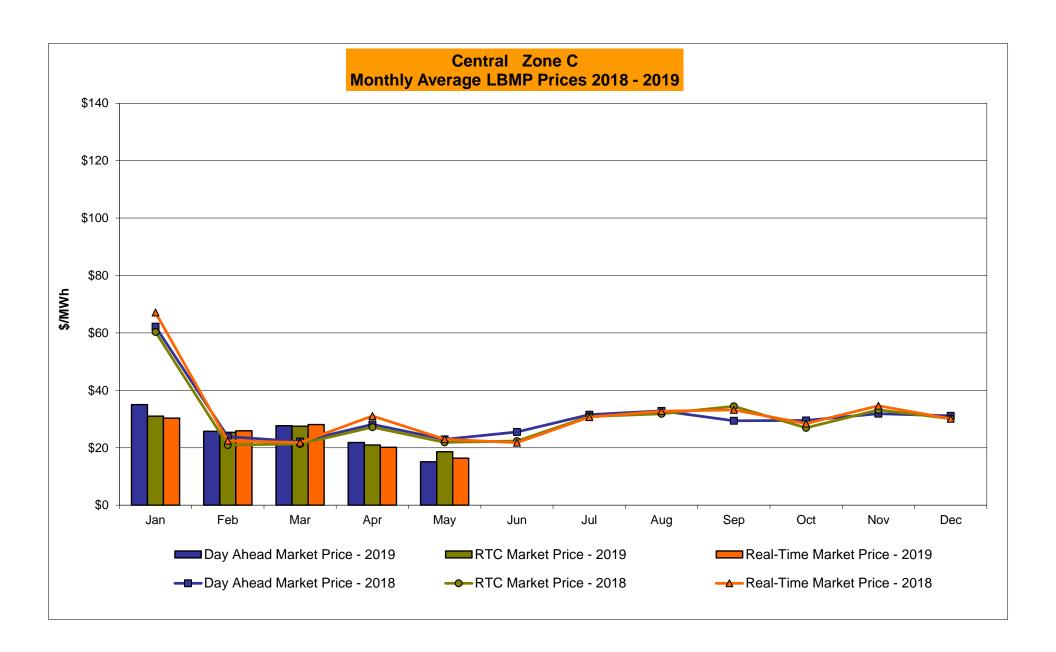


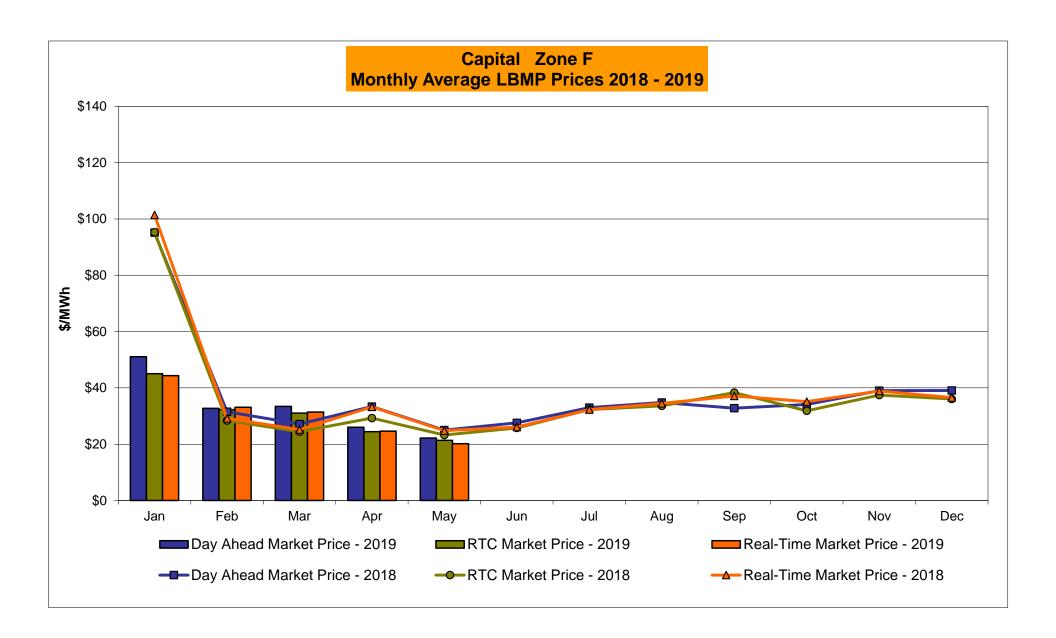
May 2019 Zonal LBMP Statistics for NYISO (\$/MWh)

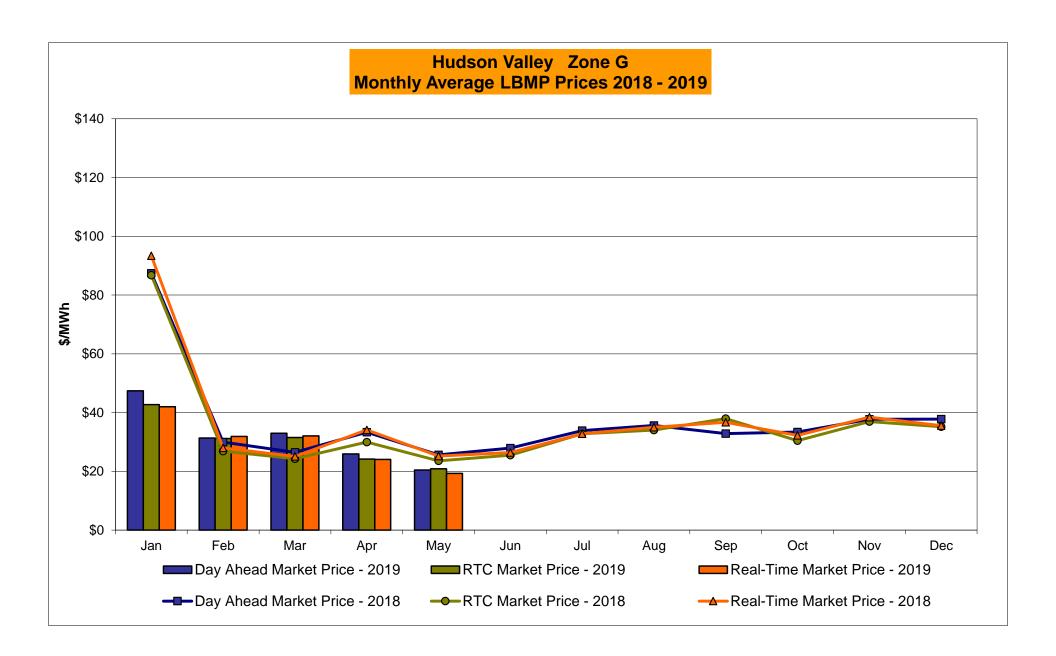
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	22.70	13.04	12.31	15.11	14.90	22.17	20.43	20.79	20.94	23.39	26.46
Standard Deviation	13.38	5.02	6.44	5.59	5.51	4.93	4.83	4.95	5.06	6.22	7.39
RTC LBMP											
Unweighted Price *	24.00	13.79	15.61	18.60	17.82	21.36	20.89	21.15	21.44	23.41	26.07
Standard Deviation	22.52	10.17	8.89	8.86	7.65	7.35	7.29	7.36	7.45	9.35	17.22
REAL TIME LBMP											
Unweighted Price *	21.79	12.57	13.71	16.34	15.74	20.16	19.31	19.62	20.03	23.23	23.88
Standard Deviation	25.88	12.35	13.36	12.37	11.96	11.52	9.79	9.93	10.31	13.35	12.83
						00000					
	ONTARIO	HYDRO	HYDRO		NEW	CROSS	NORTHBORT				
	ONTARIO	QUEBEC	QUEBEC	P.IM	NEW	SOUND	NORTHPORT-	NEPTLINE	I INDEN VET	HIIDSON	Dennison
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE Controllable	LINDEN VFT	HUDSON	Dennison Controllable
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND		NEPTUNE Controllable Line	LINDEN VFT Controllable Line	HUDSON Controllable Line	Dennison Controllable Line
DAY AHEAD LBMP	IESO	QUEBEC (Wheel) (I	QUEBEC mport/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable	<u>Controllable</u>	Controllable
DAY AHEAD LBMP Unweighted Price *	Zone O 12.43	QUEBEC (Wheel) (In Zone M 12.95	QUEBEC mport/Export) Zone M 12.95	Zone P 18.75	Zone N 22.25	SOUND CABLE Controllable Line	NORWALK Controllable Line 24.84	Controllable Line 24.70	Controllable Line 23.05	Controllable Line 22.58	Controllable Line 12.16
	IESO Zone O	QUEBEC (Wheel) (I	QUEBEC mport/Export) <u>Zone M</u>	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price * Standard Deviation RTC LBMP	Zone O 12.43	QUEBEC (Wheel) (In Zone M 12.95	QUEBEC mport/Export) Zone M 12.95	Zone P 18.75 5.77	Zone N 22.25 4.36	SOUND CABLE Controllable Line	NORWALK Controllable Line 24.84 5.78	Controllable Line 24.70 6.37	Controllable Line 23.05 5.93	Controllable Line 22.58 5.63	Controllable Line 12.16
Unweighted Price * Standard Deviation	Zone O 12.43 4.36	QUEBEC (Wheel) (In Example 2012) 2012 12.95 6.14	QUEBEC mport/Export) Zone M 12.95 6.13	Zone P 18.75 5.77	Zone N 22.25 4.36	SOUND CABLE Controllable Line 26.07 7.08	NORWALK Controllable Line 24.84 5.78	Controllable Line 24.70	23.05 5.93	Controllable Line 22.58 5.63	Controllable Line 12.16
Unweighted Price * Standard Deviation RTC LBMP	Zone O 12.43 4.36	QUEBEC (Wheel) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QUEBEC mport/Export) Zone M 12.95 6.13	Zone P 18.75 5.77	Zone N 22.25 4.36	SOUND CABLE Controllable Line 26.07 7.08	NORWALK Controllable Line 24.84 5.78	Controllable Line 24.70 6.37	Controllable Line 23.05 5.93	Controllable Line 22.58 5.63	Controllable Line 12.16 6.33
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation REAL TIME LBMP	2one O 12.43 4.36 13.09 8.27	QUEBEC (Wheel) (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QUEBEC mport/Export) Zone M 12.95 6.13 16.40 8.04	Zone P 18.75 5.77 20.70 8.97	Zone N 22.25 4.36 23.88 7.22	SOUND CABLE Controllable Line 26.07 7.08 25.72 16.85	NORWALK Controllable Line 24.84 5.78 25.42 16.69	24.70 6.37 24.25 13.19	23.05 5.93 23.30 7.55	22.58 5.63 23.00 6.71	12.16 6.33 15.49 8.77
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	Zone O 12.43 4.36	QUEBEC (Wheel) (In Example 2012) 2012 12.95 6.14	QUEBEC mport/Export) Zone M 12.95 6.13	Zone P 18.75 5.77	Zone N 22.25 4.36	SOUND CABLE Controllable Line 26.07 7.08	NORWALK Controllable Line 24.84 5.78	24.70 6.37	23.05 5.93	Controllable Line 22.58 5.63	2.16 6.33

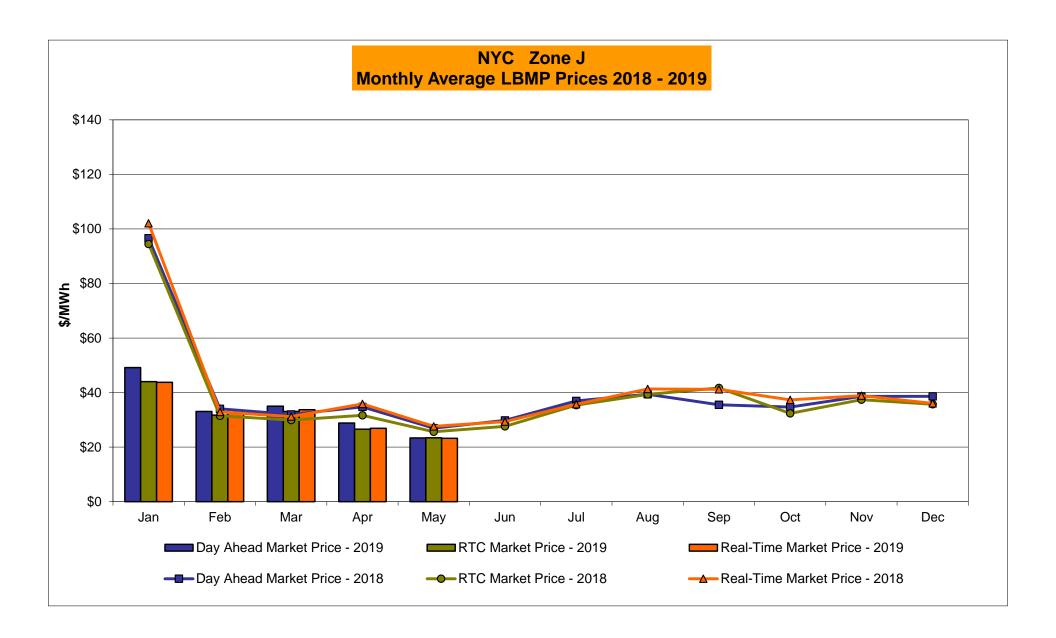
^{*} Straight LBMP averages

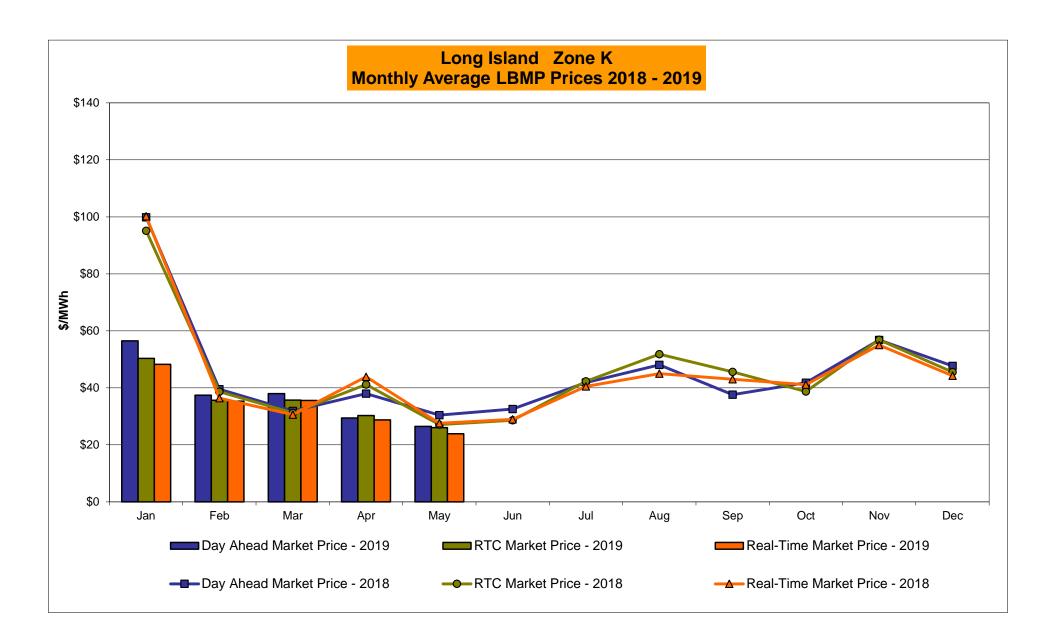


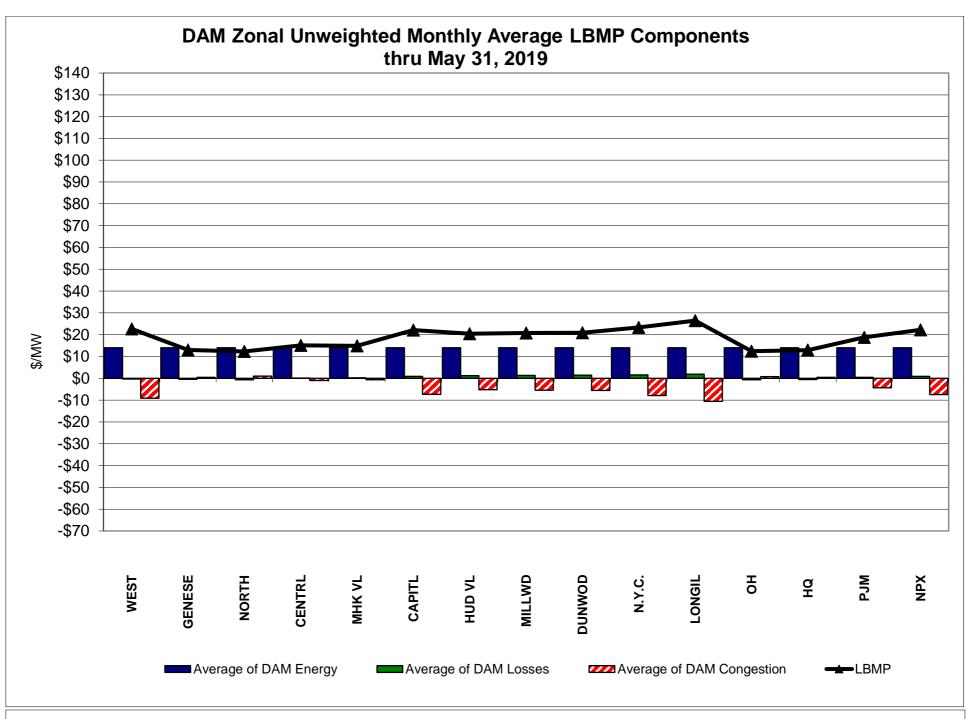


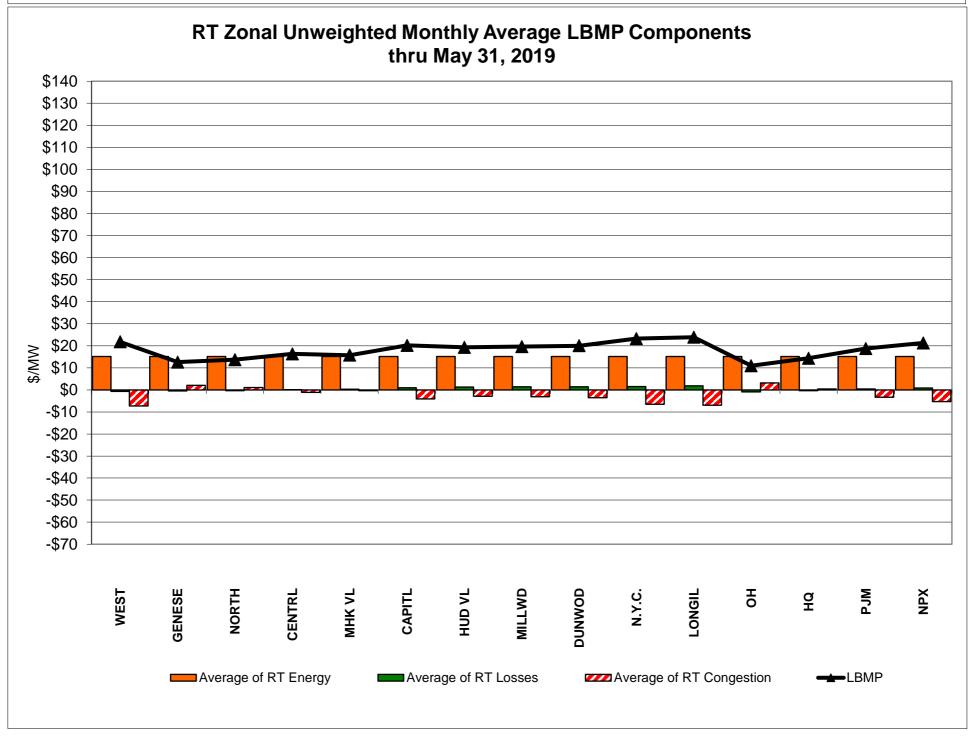




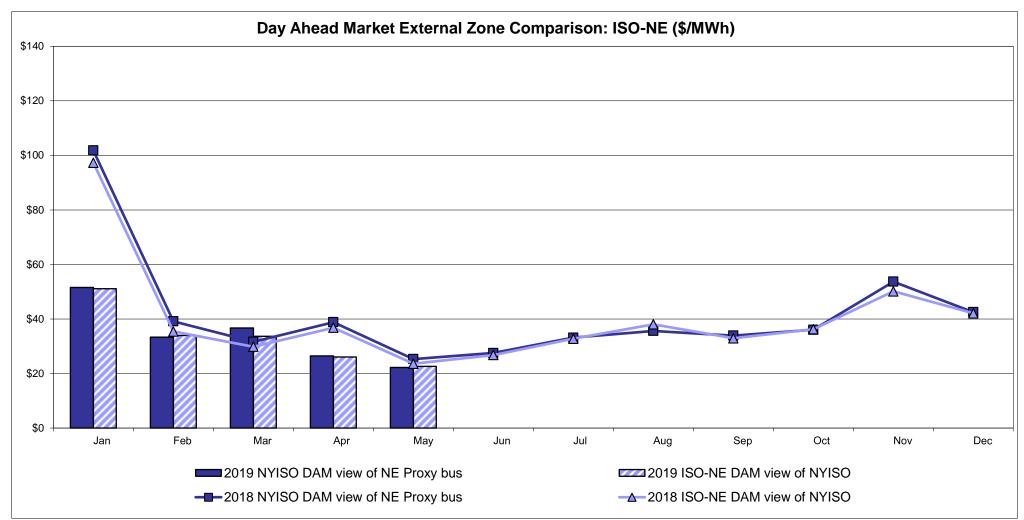


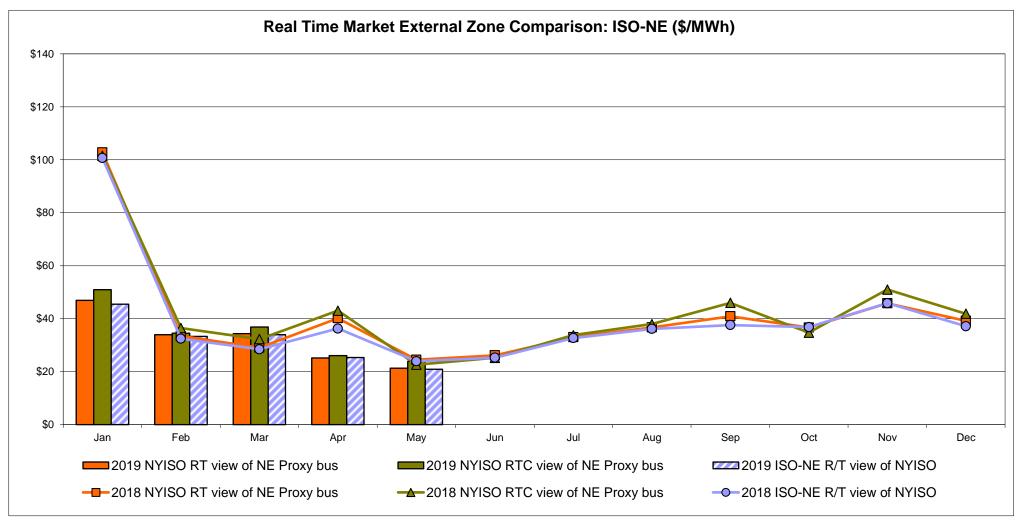




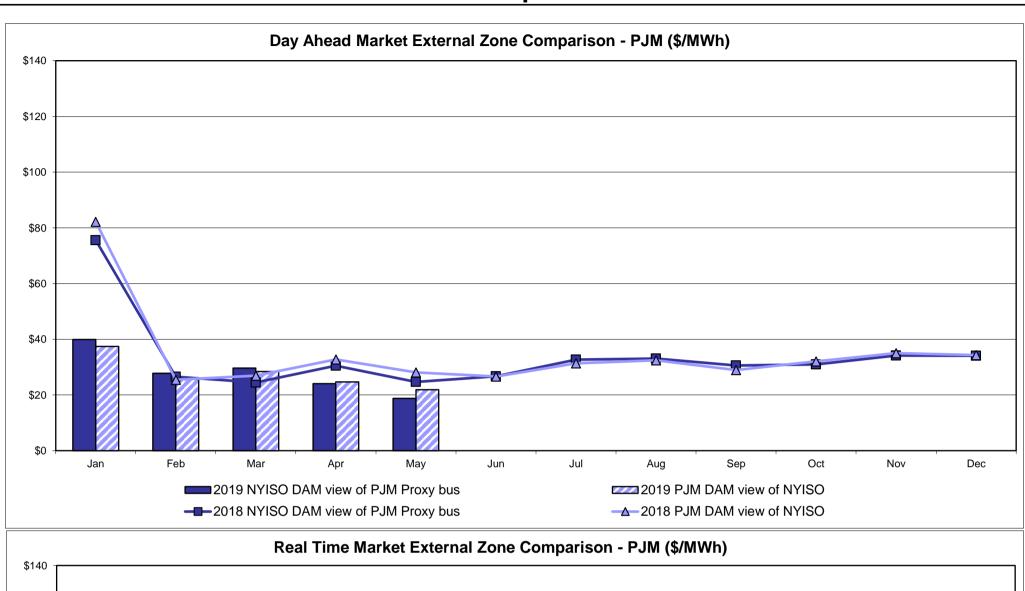


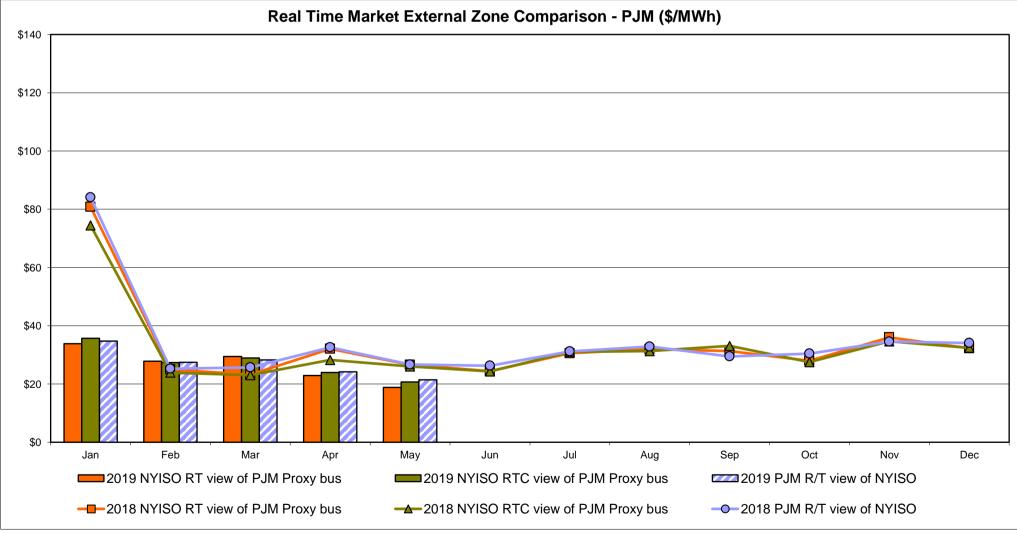
External Comparison ISO-New England



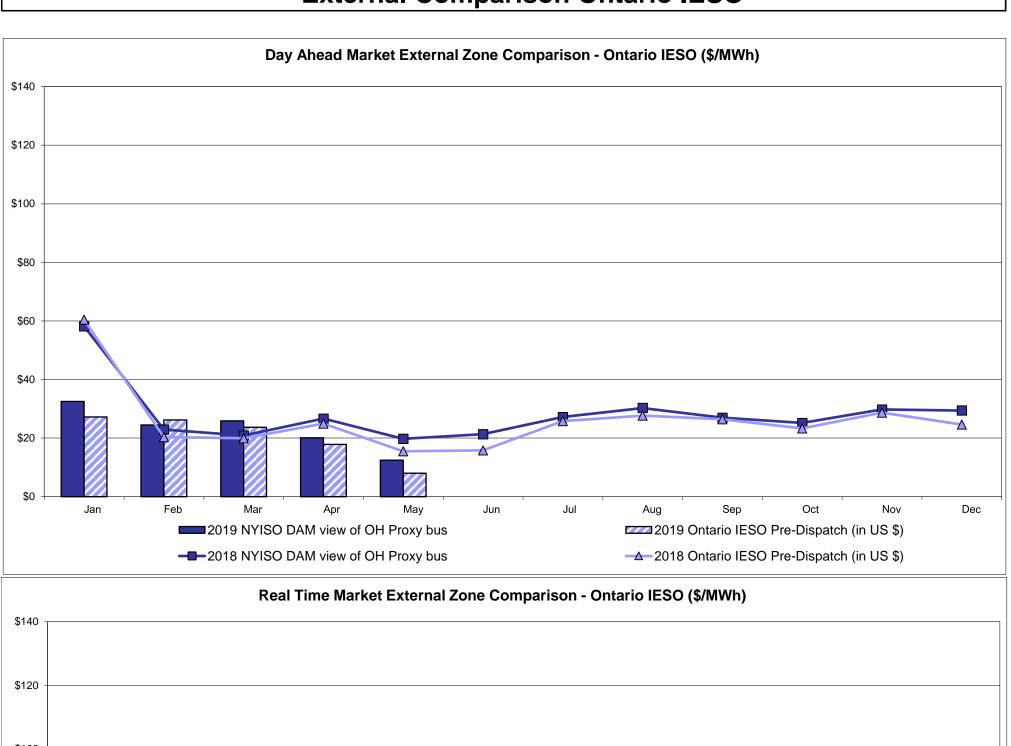


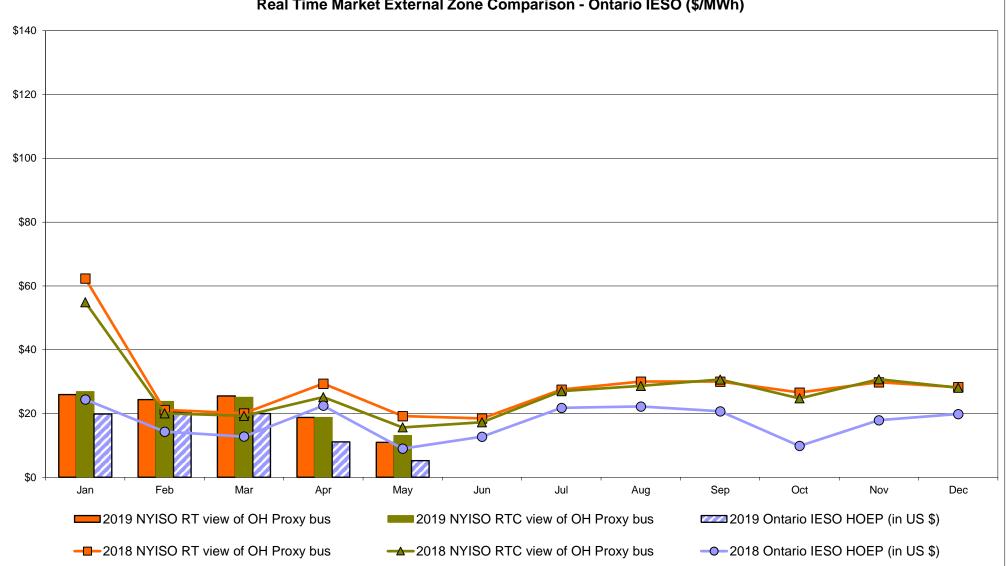
External Comparison PJM





External Comparison Ontario IESO

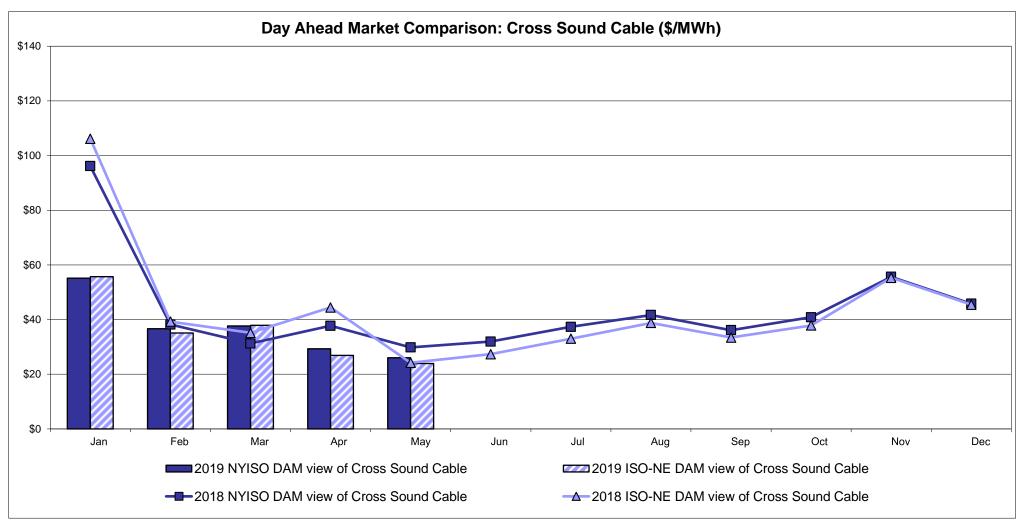


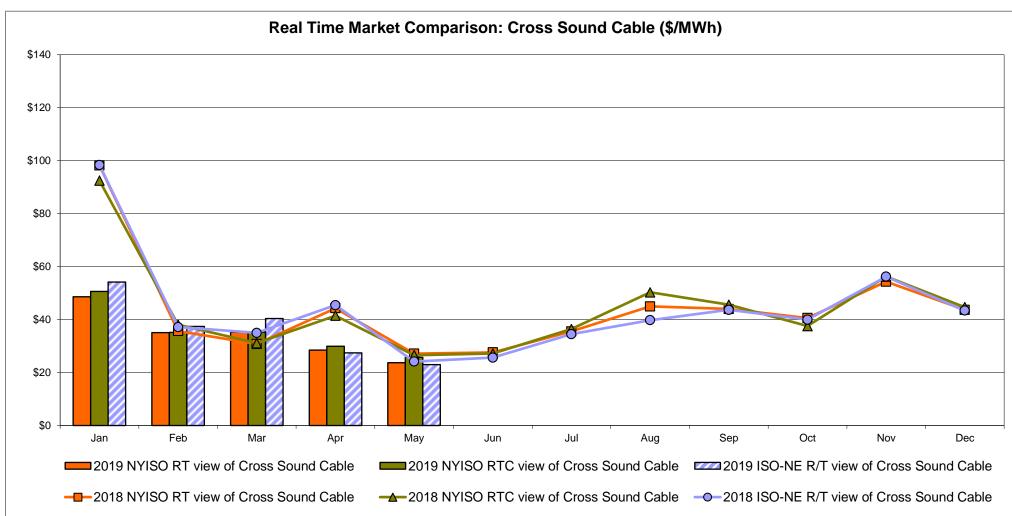


Notes: Exchange factor used for May 2019 was 0.742942050520059 to US

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

External Controllable Line: Cross Sound Cable (New England)





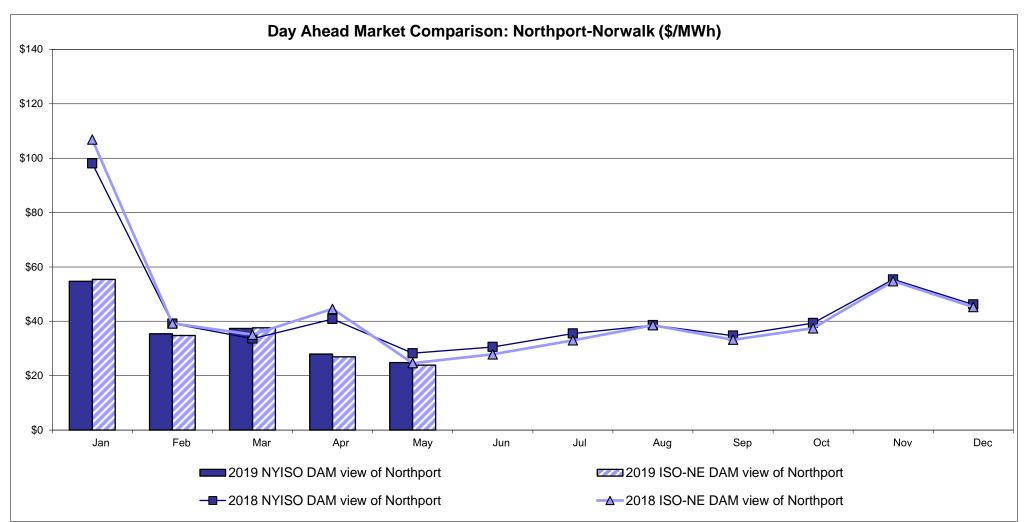
Note:

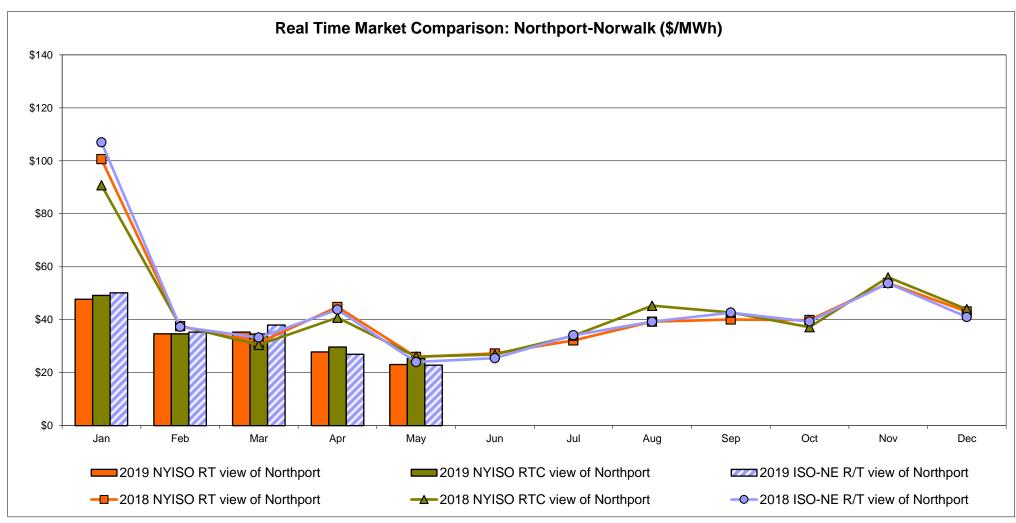
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)





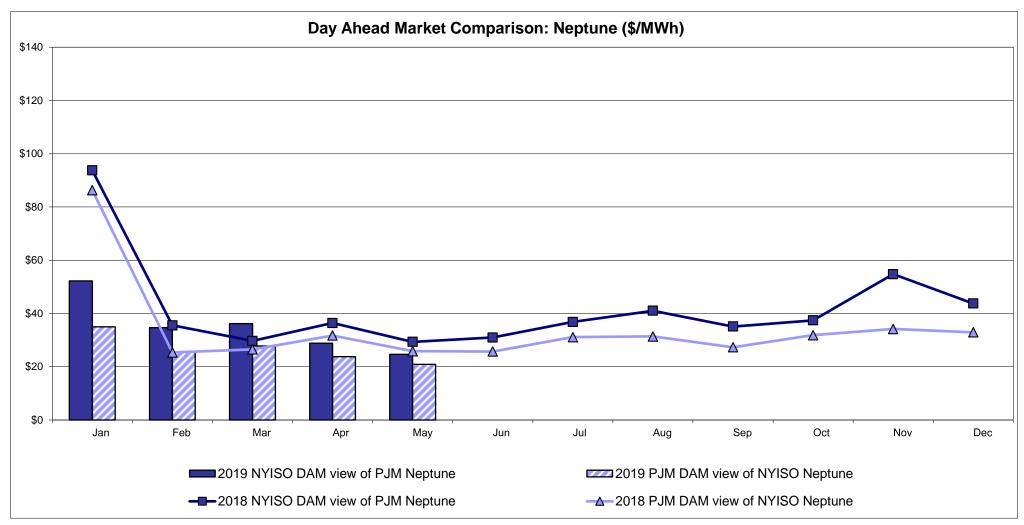
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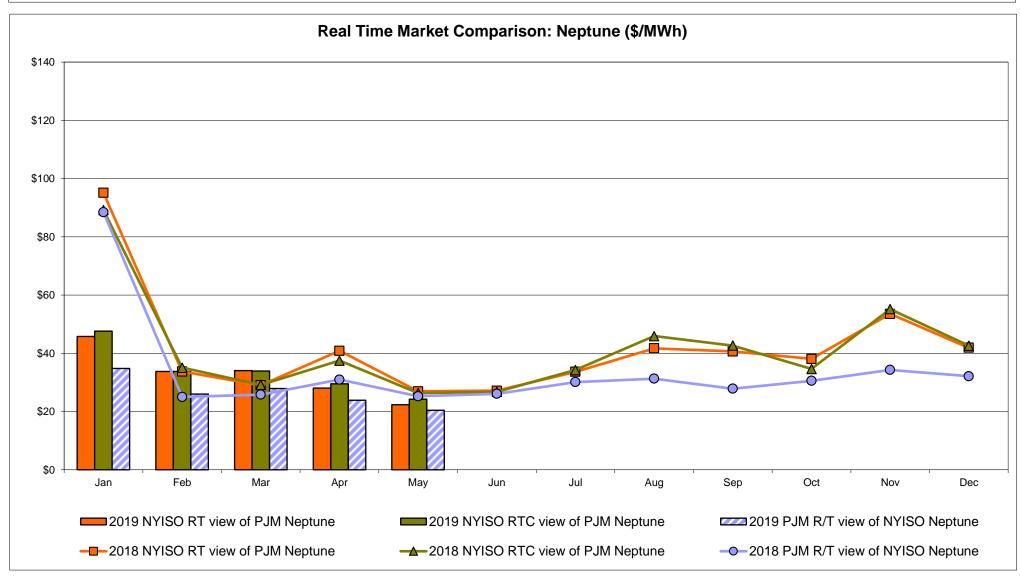
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

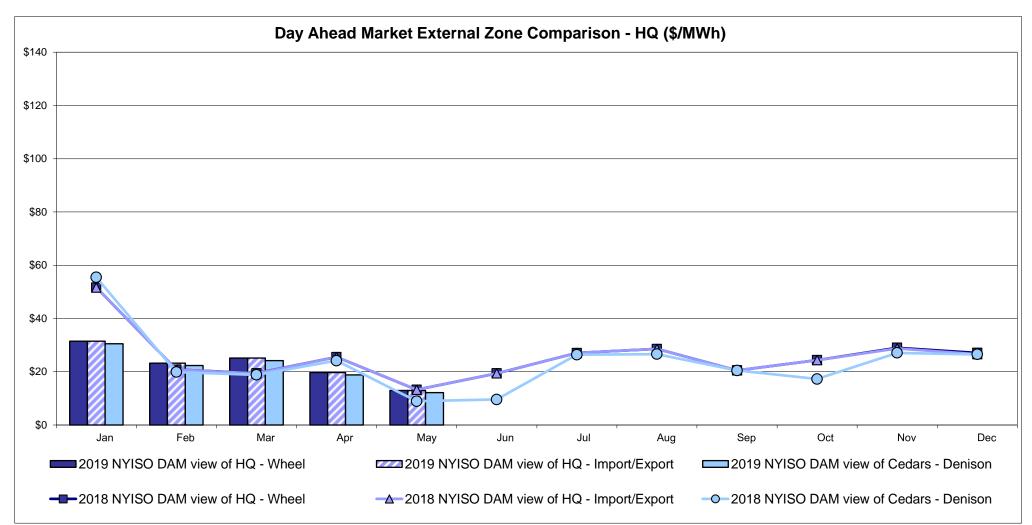
The DAM and R/T prices at the 1385 interface are used for NYISO.

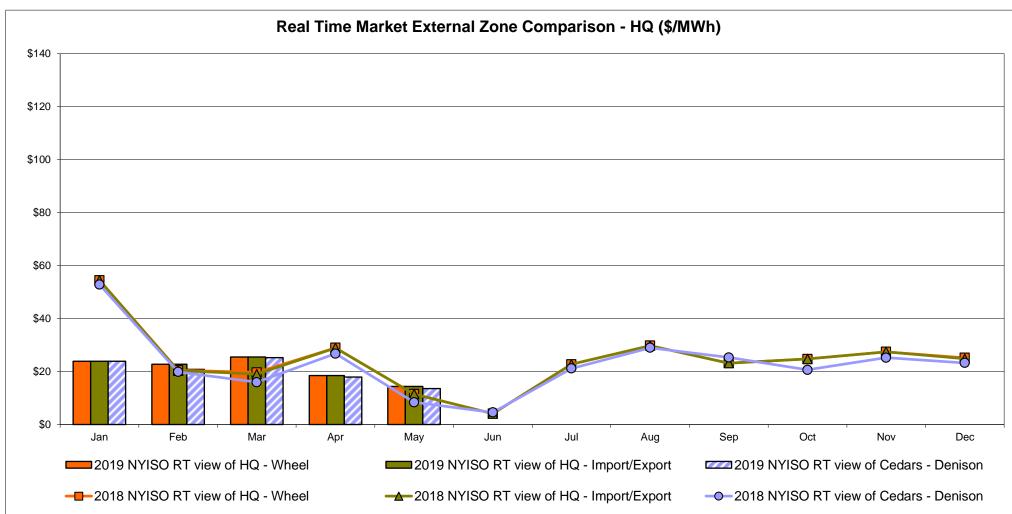
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

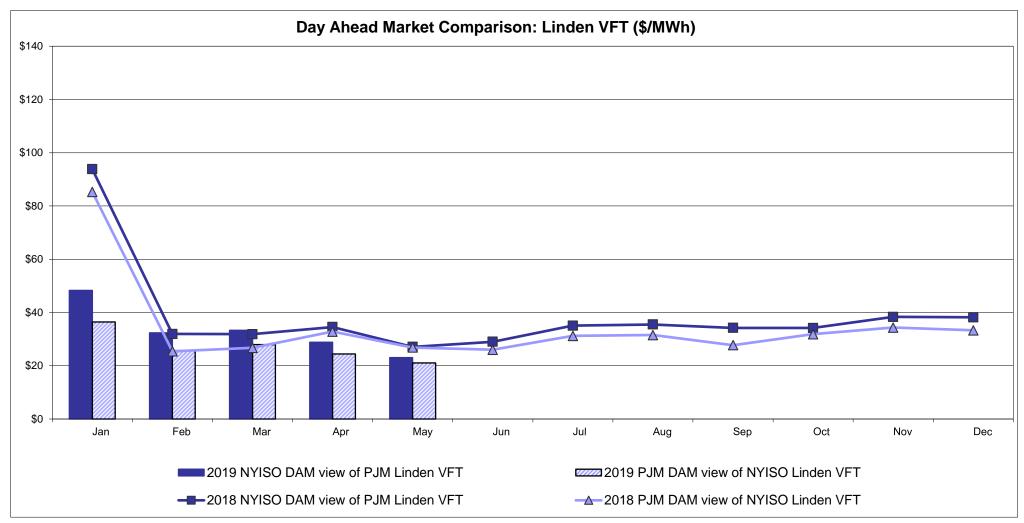


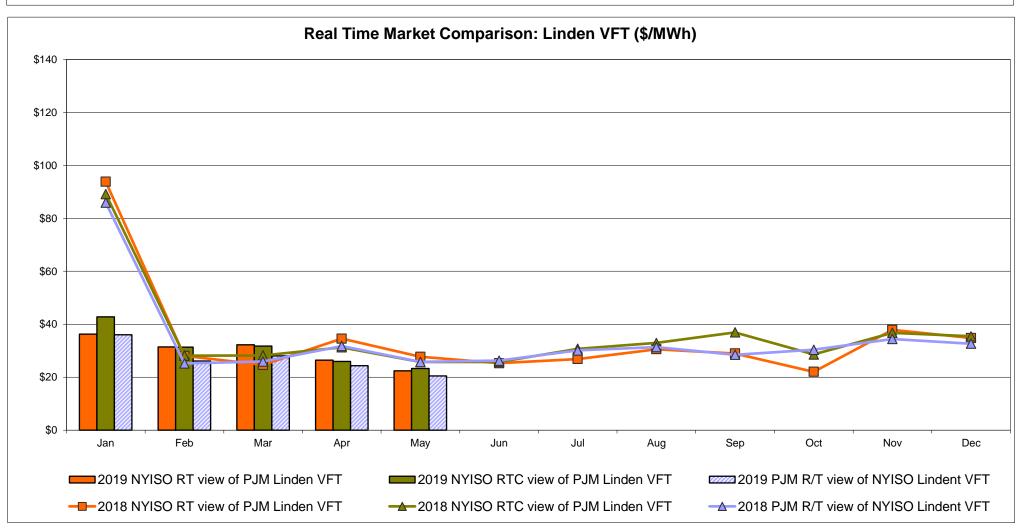


Note

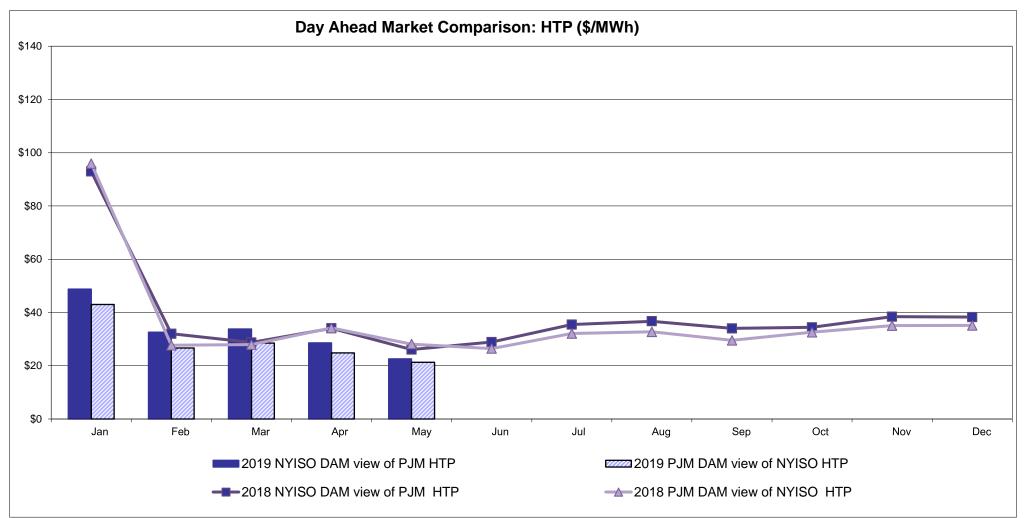
Hydro-Quebec Prices are unavailable.

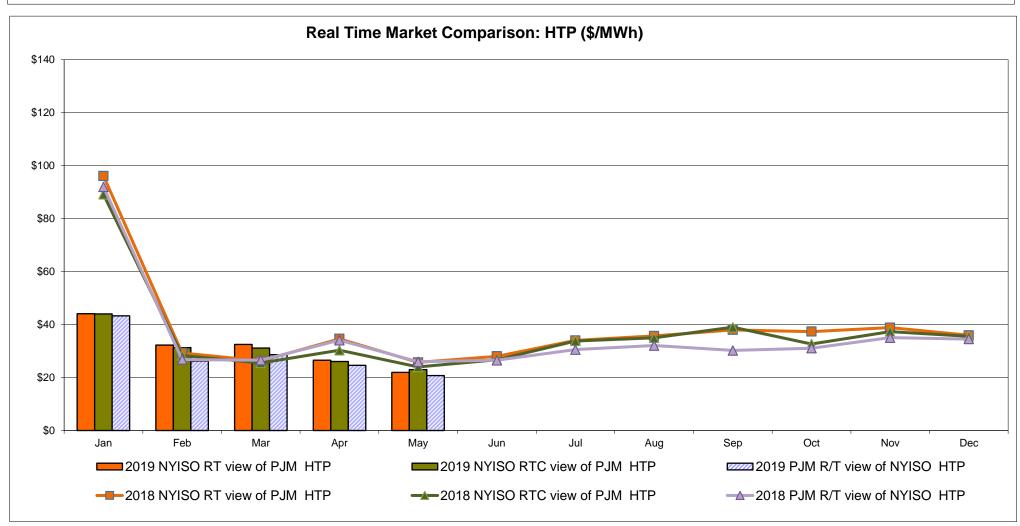
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)

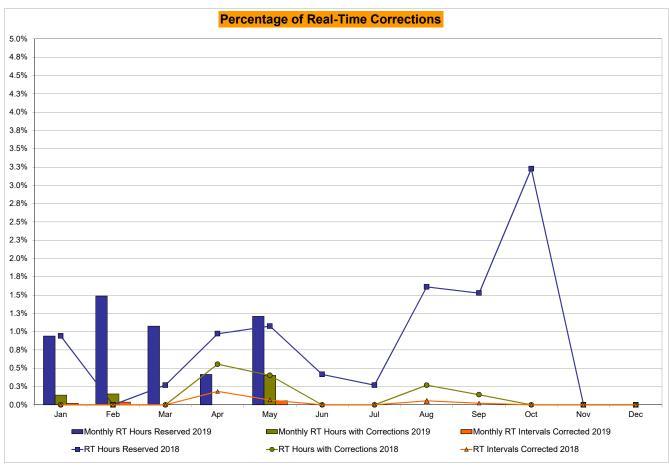


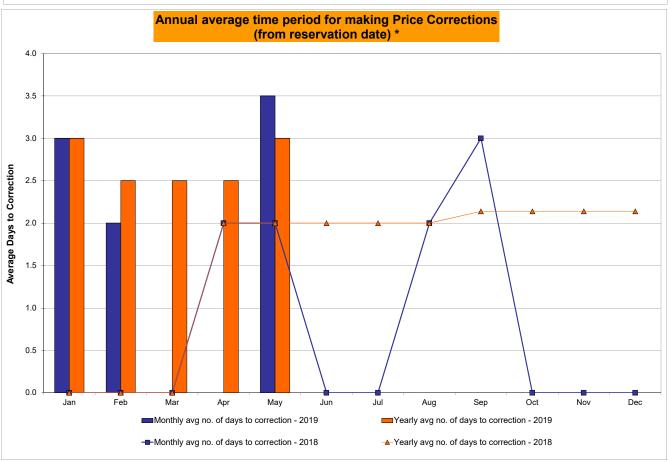


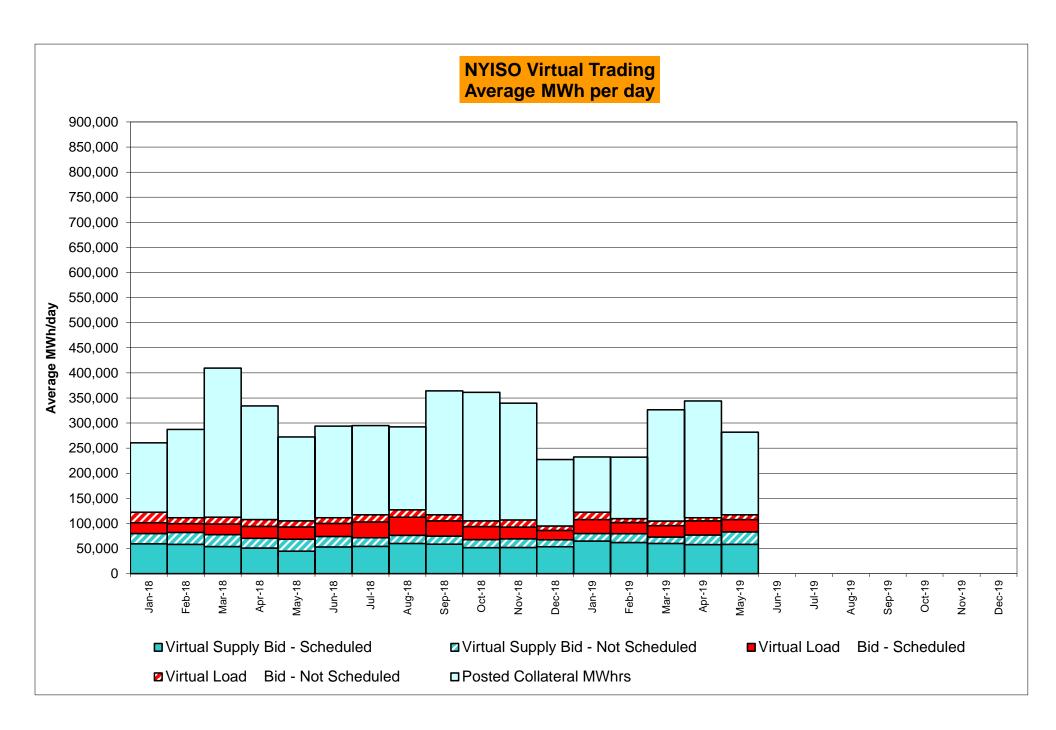
NYISO Real Time Price Correction Statistics

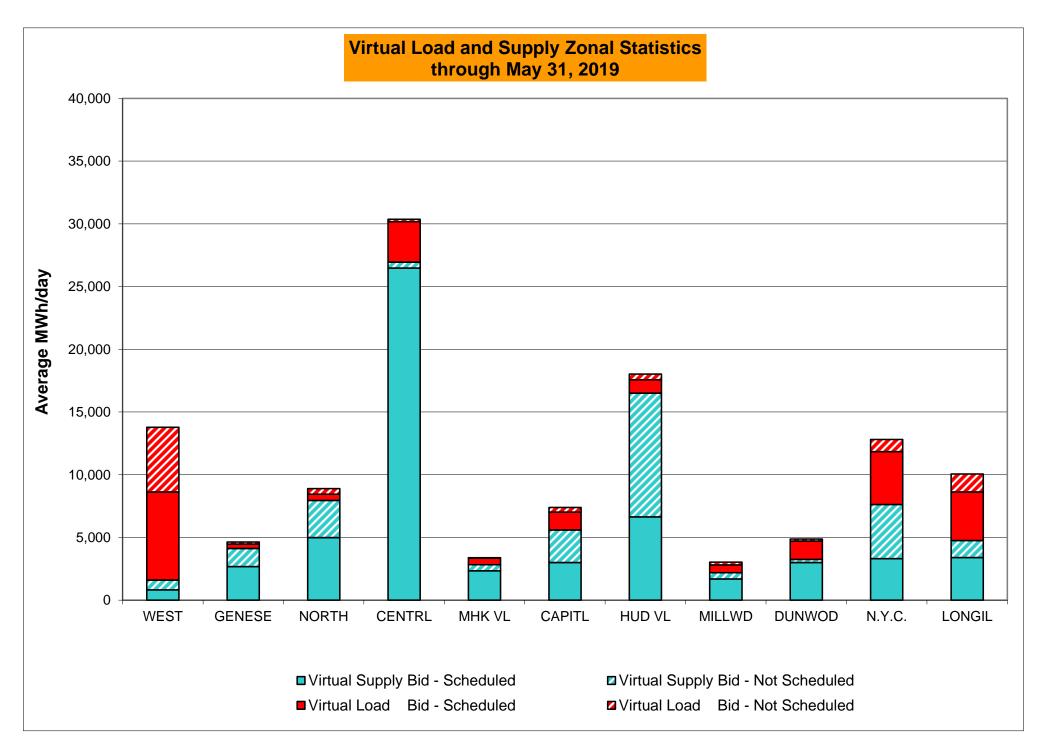
				<u>o</u>	O IXOUI II			on otatis	1100				
<u>2019</u>		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	<u>December</u>
Hour Corrections				·						· · · · · · · · · · · · · · · · · · ·			
Number of hours with corrections	in the month	1	1	0	0	3							
Number of hours	in the month	744	672	743	720	744							
% of hours with corrections	in the month	0.13%	0.15%	0.00%	0.00%	0.40%							
% of hours with corrections	year-to-date	0.13%	0.14%	0.09%	0.07%	0.14%							
Interval Corrections	year to date	0.1070	0.1470	0.0070	0.01 70	0.1470							
Number of intervals corrected	in the month	2	3	0	0	5							
Number of intervals	in the month	9,071	8,131	9,008	8,750	9.033							
% of intervals corrected	in the month	0.02%	0.04%	0.00%	0.00%	0.06%							
% of intervals corrected Hours Reserved	year-to-date	0.02%	0.03%	0.02%	0.01%	0.02%							
	: 4l 4l-	7	40	0	•	9							
Number of hours reserved	in the month	7	10	8	3	-							
Number of hours	in the month	744	672	743	720	744							
% of hours reserved	in the month	0.94%	1.49%	1.08%	0.42%	1.21%							
% of hours reserved	year-to-date	0.94%	1.20%	1.16%	0.97%	1.02%							
Days to Correction *													
Avg. number of days to correction	in the month	3.00	2.00	0.00	0.00	3.50							
Avg. number of days to correction	year-to-date	3.00	2.50	2.50	2.50	3.00							
Days Without Corrections													
Days without corrections	in the month	30	27	31	30	29							
Days without corrections	year-to-date	30	57	88	118	147							
2019		lanuary	February	March	April	May	lune	luk	August	Santambar	October	November	Docombor
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>	September	<u>October</u>	November	<u>December</u>
Hour Corrections	in the menth					<u> </u>							
Hour Corrections Number of hours with corrections	in the month	0	0	0	4	3	0	0	2	1	0	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	0 672	0 743	4 720	3 744	0 720	0 744	2 744	1 720	0 744	0 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	0 672 0.00%	0 743 0.00%	4 720 0.56%	3 744 0.40%	0 720 0.00%	0 744 0.00%	2 744 0.27%	1 720 0.14%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month	0 744	0 672	0 743	4 720	3 744	0 720	0 744	2 744	1 720	0 744	0 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	0 744 0.00% 0.00%	0 672 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date	0 744 0.00% 0.00%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,021	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19% 6 9,033	0 720 0.00% 0.16% 0 8,723	0 744 0.00% 0.14% 0 9,021	2 744 0.27% 0.15% 5 9,071	1 720 0.14% 0.15% 2 8,723	0 744 0.00% 0.14% 0 8,990	0 721 0.00% 0.12% 0 8,763	0 744 0.00% 0.11% 0 8,993
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date	0 744 0.00% 0.00%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,021	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19% 6 9,033	0 720 0.00% 0.16% 0 8,723	0 744 0.00% 0.14% 0 9,021	2 744 0.27% 0.15% 5 9,071	1 720 0.14% 0.15% 2 8,723	0 744 0.00% 0.14% 0 8,990	0 721 0.00% 0.12% 0 8,763	0 744 0.00% 0.11% 0 8,993
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 0 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 0 9,002 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% 0.19% 6 9,033 0.07%	0 720 0.00% 0.16% 0 8,723 0.00%	0 744 0.00% 0.14% 0 9,021 0.00%	2 744 0.27% 0.15% 5 9,071 0.06%	1 720 0.14% 0.15% 2 8,723 0.02%	0 744 0.00% 0.14% 0 8,990 0.00%	0 721 0.00% 0.12% 0 8,763 0.00%	0 744 0.00% 0.11% 0 8,993 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 in the month	0 744 0.00% 0.00% 0 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 0 9,002 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% 0.19% 6 9,033 0.07%	0 720 0.00% 0.16% 0 8,723 0.00%	0 744 0.00% 0.14% 0 9,021 0.00%	2 744 0.27% 0.15% 5 9,071 0.06%	1 720 0.14% 0.15% 2 8,723 0.02%	0 744 0.00% 0.14% 0 8,990 0.00%	0 721 0.00% 0.12% 0 8,763 0.00%	0 744 0.00% 0.11% 0 8,993 0.00%
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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	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
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^{*}Calendar days from reservation date; for June 2018 forward, business days from market date









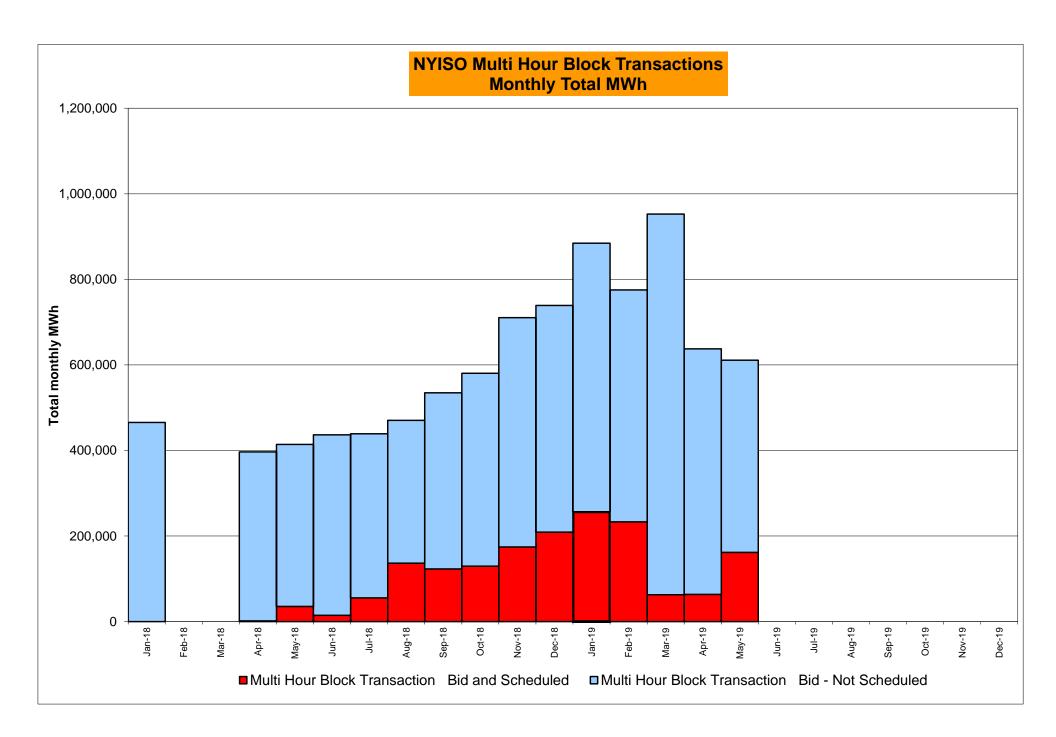
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2019 Virtual Load Bid **Virtual Supply Bid Virtual Load Bid Virtual Supply Bid** Virtual Load Bid **Virtual Supply Bid** Not Not Not Not Not Not Date Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Zone Zone MHK VL DUNWOD **WEST** 1,609 797 Jan-19 9,007 5,211 Jan-19 1,171 117 1,965 471 Jan-19 1,370 798 2,651 203 Feb-19 6,628 2,000 1,397 921 Feb-19 872 75 1,709 596 Feb-19 1,064 494 3,273 259 471 Mar-19 5,264 2,548 1,107 569 Mar-19 1,275 113 2,208 386 Mar-19 1,159 3,571 199 9,744 2,589 461 43 1,904 331 Apr-19 1,446 125 3,278 228 Apr-19 721 Apr-19 843 7,022 818 783 527 32 2,337 489 1,459 2.999 255 May-19 5,165 May-19 May-19 153 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 GENESE 527 153 3,560 529 CAPITL 962 N.Y.C. 2,599 Jan-19 Jan-19 3,042 1,550 1,424 Jan-19 3,665 3,061 1,366 Feb-19 3.776 520 896 66 Feb-19 2.591 485 1,851 1.756 Feb-19 2.545 2,025 2.248 1.648 Mar-19 987 241 3,224 432 Mar-19 2,012 383 2,004 Mar-19 3,746 1,774 2,432 968 1,666 Apr-19 808 83 4,479 475 Apr-19 1,585 232 Apr-19 3,431 2,869 4,012 2,102 1,111 656 May-19 343 171 2,680 1,446 May-19 1,438 362 3,006 2,580 May-19 4,207 977 3,304 4,320 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 NORTH 484 HUD VL 980 7,130 LONGIL Jan-19 540 6,406 1,553 Jan-19 856 9,176 Jan-19 3,362 2,135 3,091 1,056 Feb-19 431 359 6,559 Feb-19 977 843 7,858 Feb-19 3,446 1,425 1,743 7,408 2,514 1,297 Mar-19 349 419 6,855 1,845 Mar-19 1,460 1,425 8,787 4,948 Mar-19 2,752 1,198 3,372 1,025 8,845 Apr-19 284 186 1,823 487 7,243 Apr-19 1,011 7,962 Apr-19 4,934 1,386 3,096 697 May-19 498 446 4,995 2.954 May-19 1.064 457 6,634 9,871 3,869 1,430 3.396 1,359 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 CENTRL Jan-19 3,795 374 30,145 507 MILLWD Jan-19 405 386 2,051 169 **NYISO** Jan-19 27,683 14,720 64,802 15,203 Feb-19 3,059 123 29,111 609 Feb-19 540 138 1,311 247 Feb-19 22,118 7,905 62,089 17,582 Mar-19 3,411 332 25,195 542 Mar-19 505 89 1,404 155 Mar-19 22,918 8,993 60,159 12,736 Apr-19 22,748 453 686 215 371 28,247 3,475 150 Apr-19 1,636 Apr-19 6,153 58,038 18,807 May-19 May-19 3,220 195 26,474 474 May-19 613 226 1,687 505 24,261 9,615 58,331 25,035 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19

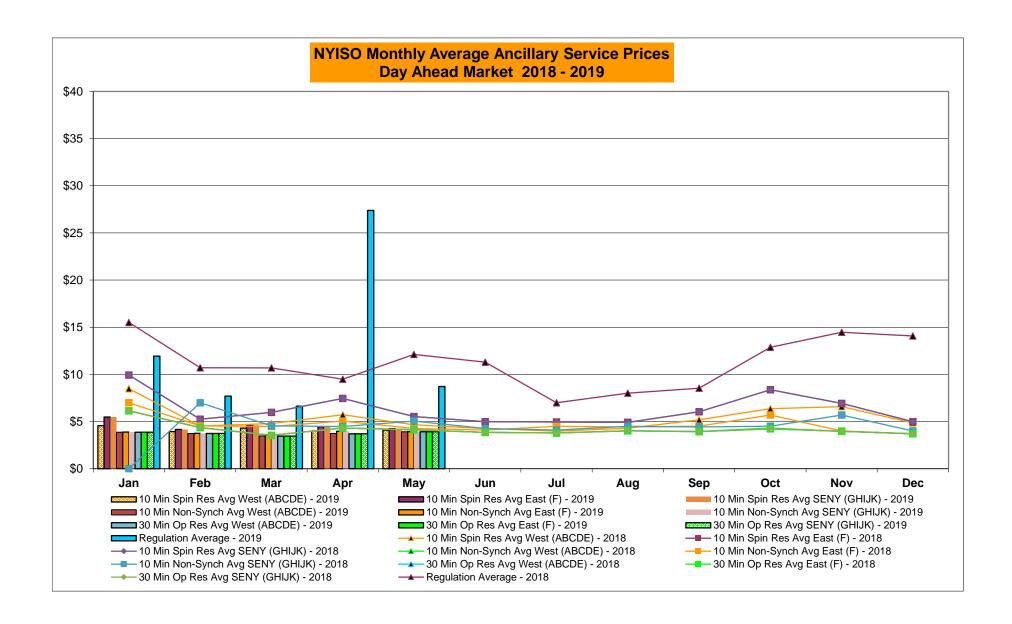
Nov-19 Dec-19 Nov-19

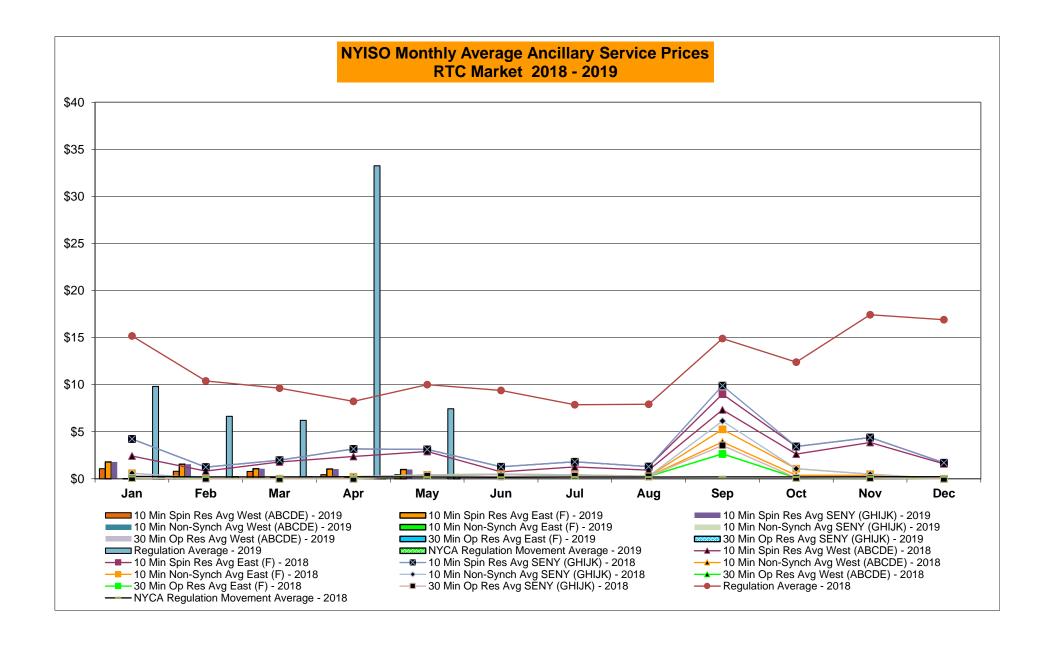
Dec-19

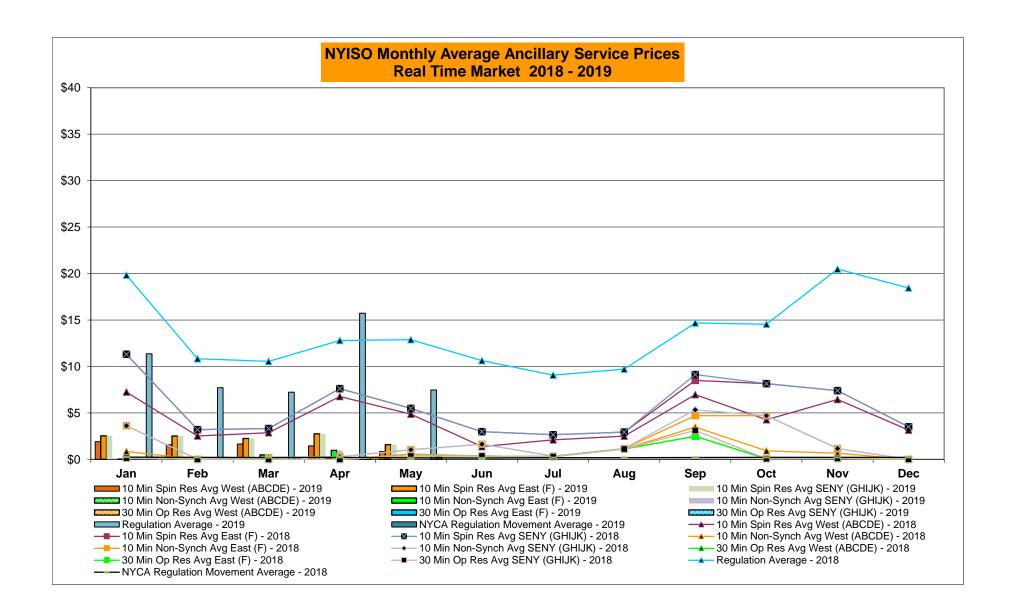
Nov-19

Dec-19





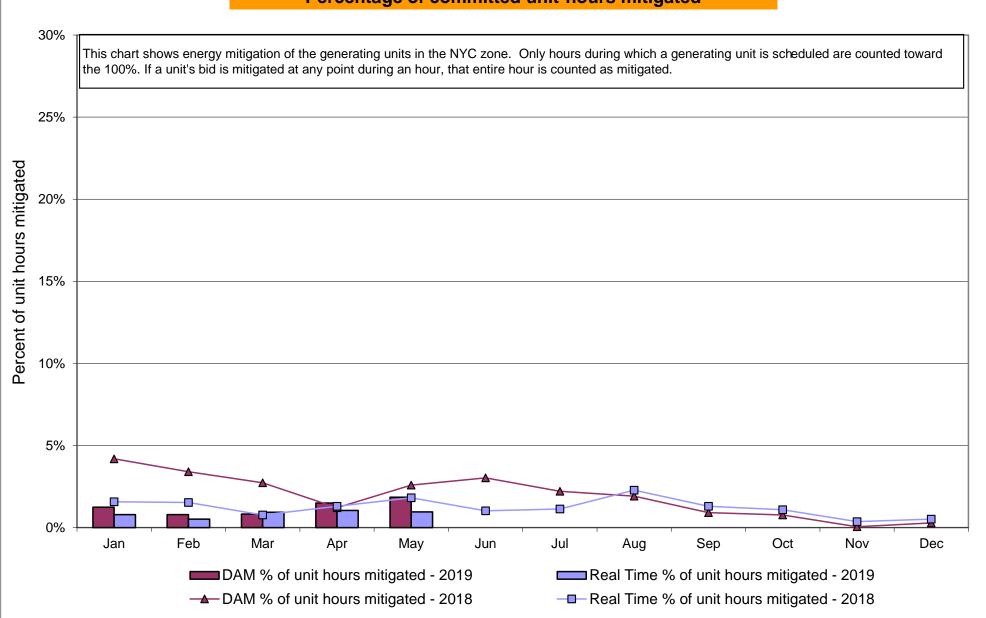


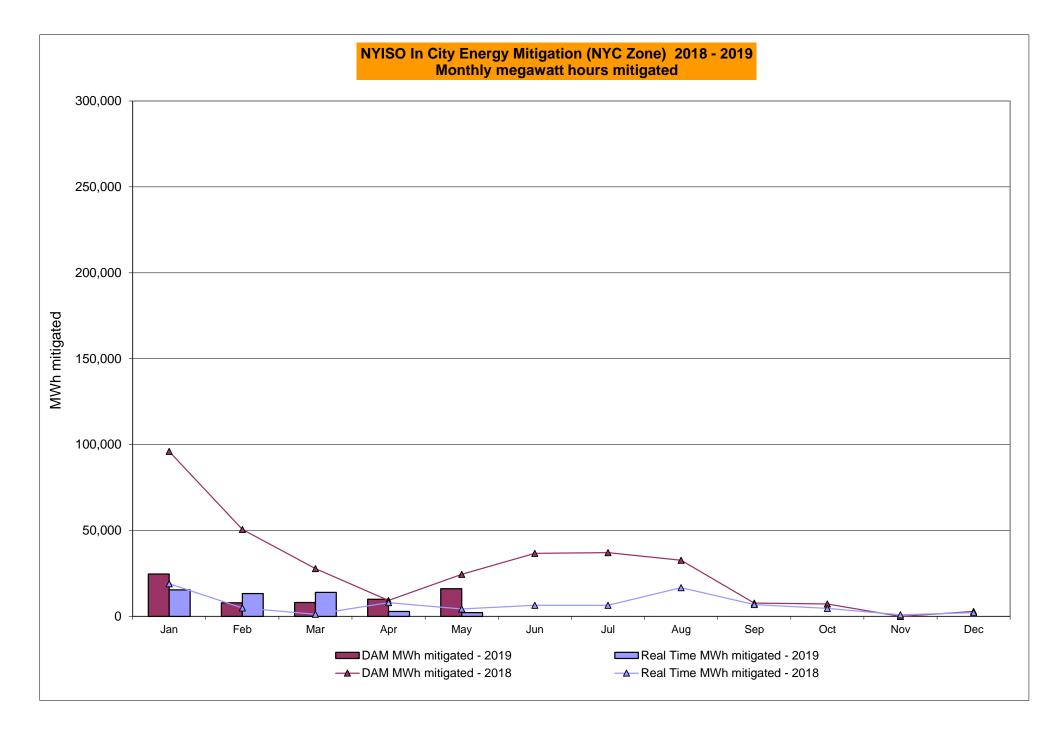


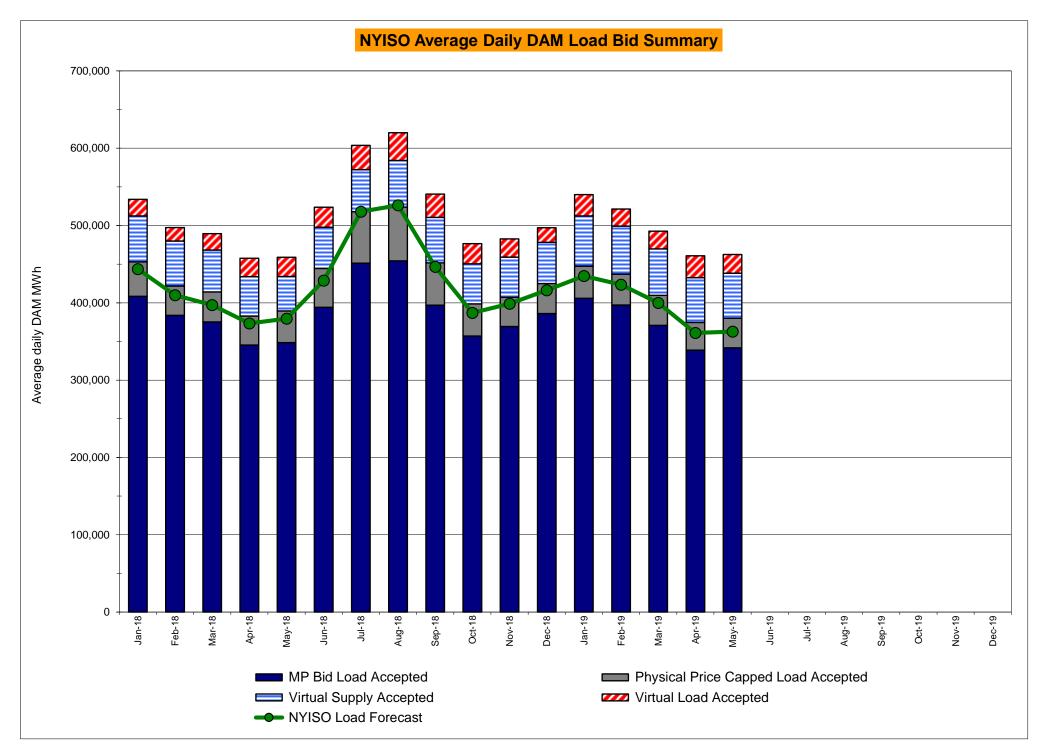
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

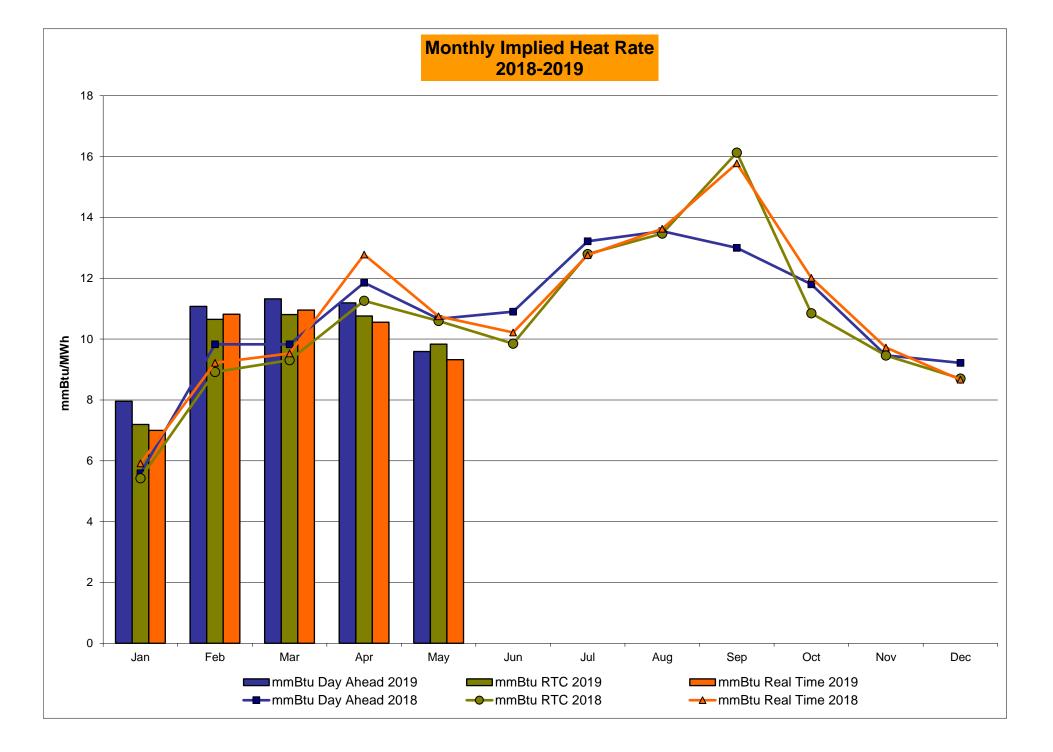
	<u>N 1130 IV</u>	iarkets A	nemary 3	services .	<u>Statistic</u>	s - Unwe	<u>igntea F</u>	<u> 71106 (\$/</u>	<u>IVI VV 🖂)</u>			
<u>2019</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
Day Ahead Market	<u>oanaary</u>	<u>r cordary</u>	<u>iviai ori</u>	<u>/\piii</u>	iviay	<u>ouric</u>	<u>oury</u>	<u>rtugust</u>	<u>осртенност</u>	October	<u>1404CITIDOI</u>	December
10 Min Spin SENY (GHIJK)	5.47	4.17	4.61	4.46	4.25							
10 Min Spin East (F)	5.47	4.17	4.61	4.46	4.25							
10 Min Spin West (ABCDE)	4.56	3.94	4.30	4.01	4.09							
10 Min Non Synch SENY (GHIJK)	3.88	3.75	3.57	3.96	3.94							
10 Min Non Synch East (F)	3.88	3.75	3.57	3.96	3.94							
10 Min Non Synch West (ABCDE)	3.86	3.74	3.47	3.73	3.91							
30 Min SENY (GHIJK)	3.86	3.74	3.46	3.71	3.91							
30 Min East (F)	3.86	3.74	3.46	3.71	3.91							
30 Min West (ABCDE)	3.86	3.74	3.46	3.71	3.91							
Regulation	11.94	7.69	6.62	27.38	8.71							
•	11.54	7.05	0.02	27.50	0.71							
RTC Market												
10 Min Spin SENY (GHIJK)	1.80	1.55	1.08	1.04	0.99							
10 Min Spin East (F)	1.80	1.55	1.08	1.04	0.99							
10 Min Spin West (ABCDE)	1.08	0.80	0.79	0.44	0.44							
10 Min Non Synch SENY (GHIJK)	0.01	0.08	0.11	0.13	0.00							
10 Min Non Synch East (F)	0.01	0.08	0.11	0.13	0.00							
10 Min Non Synch West (ABCDE)	0.00	0.01	0.01	0.00	0.00							
30 Min SENY (GHIJK)	0.00	0.01	0.01	0.00	0.00							
30 Min East (F)	0.00	0.01	0.01	0.00	0.00							
30 Min West (ABCDE)	0.00	0.01	0.01	0.00	0.00							
Regulation	9.81	6.64	6.21	33.26	7.45							
NYCA Regulation Movement	0.23	0.22	0.21	0.25	0.24							
Real Time Market												
10 Min Spin SENY (GHIJK)	2.53	2.51	2.24	2.75	1.58							
10 Min Spin East (F)	2.53	2.51	2.24	2.75	1.58							
10 Min Spin West (ABCDE)	1.89	1.57	1.64	1.45	0.85							
10 Min Non Synch SENY (GHIJK)	0.03	0.18	0.48	0.96	0.00							
10 Min Non Synch East (F)	0.03	0.18	0.48	0.96	0.00							
10 Min Non Synch West (ABCDE)	0.00	0.01	0.09	0.17	0.00							
30 Min SENY (GHIJK)	0.00	0.01	0.03	0.00	0.00							
30 Min East (F)	0.00	0.01	0.03	0.00	0.00							
30 Min West (ABCDE)	0.00	0.01	0.03	0.00	0.00							
Regulation	11.36	7.72	7.23	15.73	7.47							
NYCA Regulation Movement	0.22	0.22	0.20	0.25	0.23							
N CA Regulation Movement	0.22	0.22	0.20	0.23	0.23							
· ·												
2018		February	March	April	Mav	June	.luly	August	September	October	November	December
2018 Day Ahead Market	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
Day Ahead Market	<u>January</u>											
<u>Day Ahead Market</u> 10 Min Spin SENY (GHIJK)	<u>January</u> 9.93	5.24	5.97	7.45	5.52	4.98	4.95	4.91	6.04	8.37	6.93	4.99
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	<u>January</u> 9.93 9.93	5.24 5.24	5.97 5.97	7.45 7.45	5.52 5.52	4.98 4.98	4.95 4.95	4.91 4.91	6.04 6.04	8.37 8.37	6.93 6.93	4.99 4.99
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	<u>January</u> 9.93 9.93 8.49	5.24 5.24 4.53	5.97 5.97 4.78	7.45 7.45 5.73	5.52 5.52 4.65	4.98 4.98 4.26	4.95 4.95 3.98	4.91 4.91 4.30	6.04 6.04 5.18	8.37 8.37 6.36	6.93 6.93 6.57	4.99 4.99 4.86
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	<u>January</u> 9.93 9.93 8.49 6.99	5.24 5.24 4.53 4.54	5.97 5.97 4.78 4.48	7.45 7.45 5.73 5.05	5.52 5.52 4.65 4.26	4.98 4.98 4.26 4.09	4.95 4.95 3.98 4.49	4.91 4.91 4.30 4.43	6.04 6.04 5.18 4.51	8.37 8.37 6.36 5.69	6.93 6.93 6.57 4.00	4.99 4.99 4.86 3.71
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)	January 9.93 9.93 8.49 6.99	5.24 5.24 4.53 4.54 4.54	5.97 5.97 4.78 4.48 4.48	7.45 7.45 5.73 5.05 5.05	5.52 5.52 4.65 4.26 4.26	4.98 4.98 4.26 4.09 4.09	4.95 4.95 3.98 4.49 4.49	4.91 4.91 4.30 4.43 4.43	6.04 6.04 5.18 4.51 4.51	8.37 8.37 6.36 5.69 5.69	6.93 6.93 6.57 4.00 4.00	4.99 4.99 4.86 3.71 3.71
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)	9.93 9.93 9.93 8.49 6.99 6.99 6.15	5.24 5.24 4.53 4.54 4.54 4.36	5.97 5.97 4.78 4.48 4.48 3.54	7.45 7.45 5.73 5.05 5.05 4.31	5.52 5.52 4.65 4.26 4.26 4.13	4.98 4.98 4.26 4.09 4.09 3.85	4.95 4.95 3.98 4.49 4.49 3.80	4.91 4.91 4.30 4.43 4.43 4.03	6.04 6.04 5.18 4.51 4.51 3.95	8.37 8.37 6.36 5.69 5.69 4.31	6.93 6.93 6.57 4.00 4.00 3.97	4.99 4.99 4.86 3.71 3.71 3.70
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)	9.93 9.93 9.93 8.49 6.99 6.15 6.14	5.24 5.24 4.53 4.54 4.54 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
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)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
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)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70 3.70
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	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
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	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.27 0.42 0.42	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88 3.43 2.63 1.07 1.07	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 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 Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.27 0.42 0.42 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07 0.38	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 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 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)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.27 0.42 0.42 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 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 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 SENY (GHIJK)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 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 Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 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 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) 30 Min East (F) 30 Min West (ABCDE) Regulation	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 8.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 9.39	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 14.90	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90
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) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 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 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) 30 Min East (F) 30 Min West (ABCDE) Regulation	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 8.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 9.39	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 14.90	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90
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) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 0.16	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 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	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 8.22 0.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 0.16	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 0.16	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 SENY (GHIJK) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27 0.25 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65 2.10	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 14.90 0.20 9.13 8.50 6.96	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21 8.14 8.14 4.26	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 1.98 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65 2.10 0.35	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 0.09 17.43 0.22	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 SENY (GHIJK) 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 East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.01	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 9.39 0.16 2.98 2.98 1.37 1.63 1.63	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65 2.10 0.35 0.35	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.16	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 West (ABCDE) 30 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 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 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)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.001	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.09	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65 2.10 0.35 0.35 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.16 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 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)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.09 0.09 0.09	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65 2.10 0.35 0.29 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.16 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22 3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 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 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 Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	9.93 9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.09 0.09 0.09 0.09 0.09 0.09 0.09	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 1.63 0.37 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65 2.10 0.35 0.29 0.29 0.29 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.12 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11 2.48	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22 3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 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 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 East (F) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin East (F) 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 SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	9.93 9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13 0.13 0.13	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.0	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.09 0.09 0.09 0.09 0.09 0.09	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 1.63 0.37 0.37 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19 2.65 2.65 2.10 0.35 0.29 0.29 0.29 0.29 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.12 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11 2.48 2.48	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06 0.06 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10 0.10	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07 1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22 3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0

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

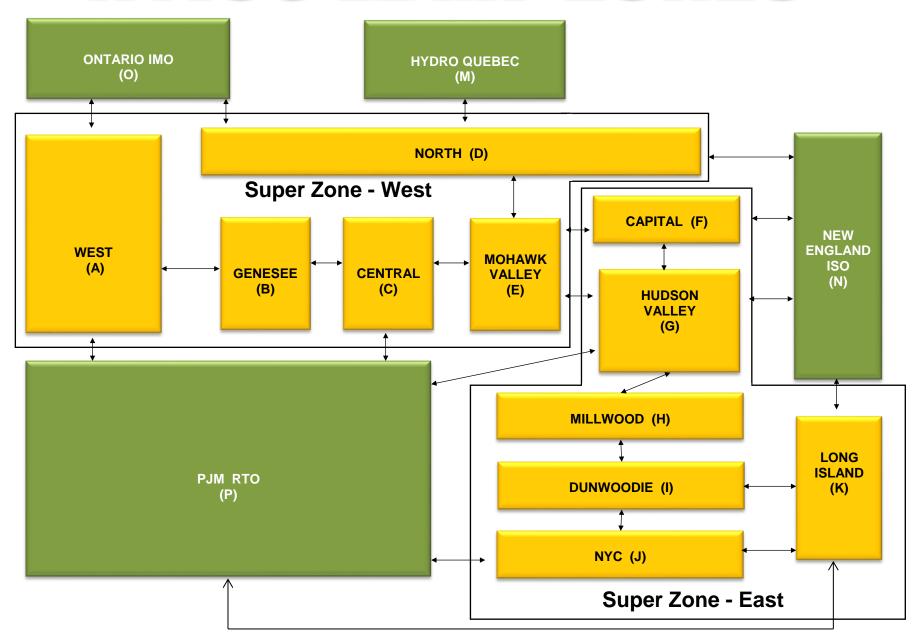








NYISO LBMP ZONES



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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