NYISO CEO/COO Report

Rob Fernandez

Interim President & Chief Executive Officer

Rick Gonzales

Senior Vice President & Chief Operating Officer

Management Committee Meeting:

January 30, 2019 Rensselaer, NY



NYISO CEO/COO Report

CEO Report

COO Report

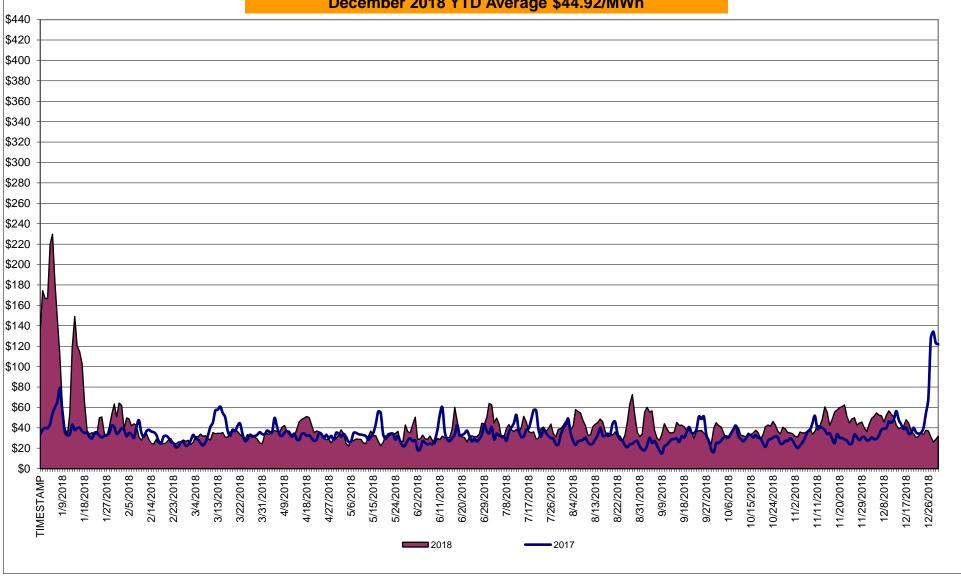
- Market Performance Highlights For Information Only
- Operations Performance Metrics Monthly Report



Market Performance Highlights December 2018

- LBMP for December is \$40.31/MWh; lower than \$43.15/MWh in November 2018 and \$52.63/MWh in December 2017.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to November.
- December 2018 average year-to-date monthly cost of \$44.92/MWh is a 23% increase from \$36.56/MWh in December 2017.
- Average daily sendout is 425 GWh/day in December; higher than 411 GWh/day in November 2018 and lower than 444 GWh/day in December 2017.
- Natural gas and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$4.10/MMBtu, down from \$4.23/MMBtu in November.
 - Natural gas prices are down 3.2% year-over-year.
 - Jet Kerosene Gulf Coast was \$12.54/MMBtu, down from \$14.50/MMBtu in November.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$12.84/MMBtu, down from \$14.72/MMBtu in November.
 - Distillate prices are down 7.3% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.29)/MWh; lower than (\$0.27)/MWh in November.
 - Local Reliability Share is \$0.23/MWh, lower than \$0.25/MWh in November.
 - Statewide Share is (\$0.52)/MWh, same as (\$0.52)/MWh in November.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than November.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)* 2017 Annual Average \$36.56/MWh December 2017 YTD Average \$36.56/MWh December 2018 YTD Average \$44.92/MWh

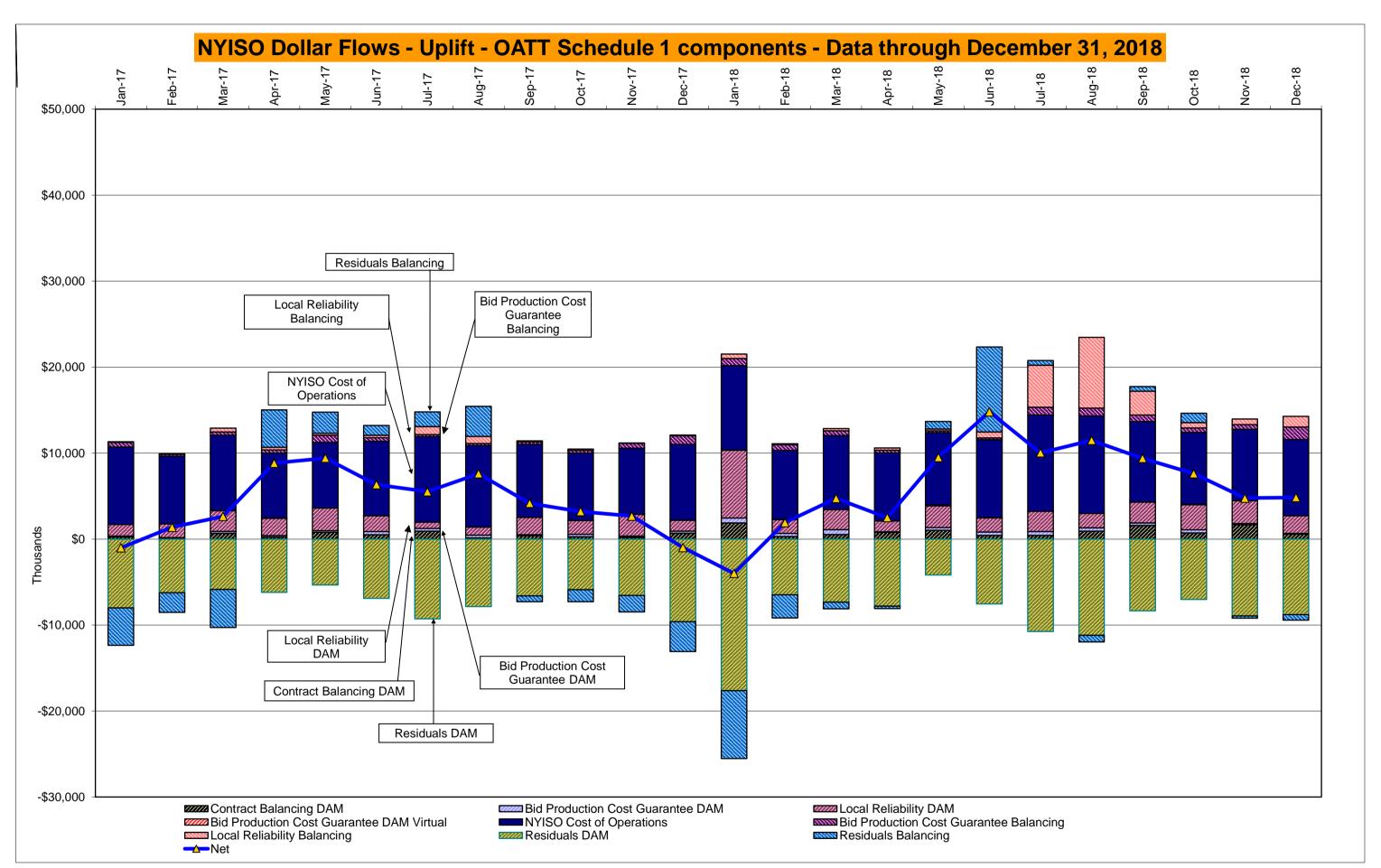


^{*} Excludes ICAP payments.

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

2018	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	40.31
NTAC	0.71	0.58	0.88	1.09	0.88	1.00	0.93	0.72	0.40	0.36	1.18	0.93
Reserve	0.92	0.65	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	0.16	0.12	0.14	0.16	0.09	0.09	0.09	0.16	0.17	0.17
NYISO Cost of Operations	0.65	0.65	0.66	0.65	0.66	0.67	0.67	0.66	0.66	0.63	0.63	0.63
FERC Fee Recovery	0.08	0.10	0.09	0.10	0.09	0.09	0.06	0.06	0.08	0.09	0.09	0.08
Uplift	(0.92)	(0.50)	(0.31)	(0.45)	0.05	0.30	(0.13)	(0.02)	(0.11)	(0.30)	(0.27)	(0.29)
Uplift: Local Reliability Share	0.59	0.14	0.19	0.12	0.22	0.18	0.44	0.59	0.37	0.27	0.25	0.23
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)	(0.57)	(0.17)	0.12	(0.57)	(0.61)	(0.48)	(0.56)	(0.52)	(0.52)
Voltage Support and Black Start _	0.40	0.41	0.42	0.41	0.42	0.42	0.42	0.42	0.42	0.40	0.40	0.40
Avg Monthly Cost	101.54	35.87	32.45	37.74	31.70	35.73	42.12	45.01	40.76	38.00	46.01	42.78
Avg YTD Cost	101.54	72.85	60.06	54.82	50.20	47.70	46.64	46.37	45.75	45.03	45.11	44.92
TSA \$ per NYC MWh	0.00	0.00	0.04	0.00	0.08	0.39	0.21	0.14	0.33	0.75	0.00	0.00
2017	January	February	March	April	May	June	July	August	September	October	November	December
2017 LBMP	<u>January</u> 40.07	February 30.95	<u>March</u> 34.97	<u>April</u> 31.06	<u>May</u> 31.74	<u>June</u> 31.76	<u>July</u> 35.84	August 30.57	September 29.57	October 28.35	November 30.60	December 52.63
LBMP	40.07	30.95	34.97	31.06	31.74	31.76	35.84	30.57	29.57	28.35	30.60	52.63
LBMP NTAC	40.07 0.66	30.95 1.11	34.97 0.86	31.06 1.05	31.74 0.79	31.76 0.62	35.84 0.87	30.57 0.59	29.57 0.62	28.35 0.50	30.60 0.75	52.63 0.81
LBMP NTAC Reserve	40.07 0.66 0.70	30.95 1.11 0.67	34.97 0.86 0.74	31.06 1.05 0.70	31.74 0.79 0.61	31.76 0.62 0.55	35.84 0.87 0.48	30.57 0.59 0.44	29.57 0.62 0.47	28.35 0.50 0.59	30.60 0.75 0.55	52.63 0.81 0.71
LBMP NTAC Reserve Regulation	40.07 0.66 0.70 0.14	30.95 1.11 0.67 0.12	34.97 0.86 0.74 0.13	31.06 1.05 0.70 0.17	31.74 0.79 0.61 0.16	31.76 0.62 0.55 0.13	35.84 0.87 0.48 0.10	30.57 0.59 0.44 0.10	29.57 0.62 0.47 0.11	28.35 0.50 0.59 0.13	30.60 0.75 0.55 0.20	52.63 0.81 0.71 0.15
LBMP NTAC Reserve Regulation NYISO Cost of Operations	40.07 0.66 0.70 0.14 0.65	30.95 1.11 0.67 0.12 0.65	34.97 0.86 0.74 0.13 0.65	31.06 1.05 0.70 0.17 0.65	31.74 0.79 0.61 0.16 0.62	31.76 0.62 0.55 0.13 0.63	35.84 0.87 0.48 0.10 0.63	30.57 0.59 0.44 0.10 0.63	29.57 0.62 0.47 0.11 0.63	28.35 0.50 0.59 0.13 0.62	30.60 0.75 0.55 0.20 0.61	52.63 0.81 0.71 0.15 0.60
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery	40.07 0.66 0.70 0.14 0.65 0.09	30.95 1.11 0.67 0.12 0.65 0.10	34.97 0.86 0.74 0.13 0.65 0.10	31.06 1.05 0.70 0.17 0.65 0.12	31.74 0.79 0.61 0.16 0.62 0.10	31.76 0.62 0.55 0.13 0.63 0.09	35.84 0.87 0.48 0.10 0.63 0.07	30.57 0.59 0.44 0.10 0.63 0.08	29.57 0.62 0.47 0.11 0.63 0.09	28.35 0.50 0.59 0.13 0.62 0.10	30.60 0.75 0.55 0.20 0.61 0.10	52.63 0.81 0.71 0.15 0.60 0.08
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	40.07 0.66 0.70 0.14 0.65 0.09 (0.73)	30.95 1.11 0.67 0.12 0.65 0.10 (0.54)	34.97 0.86 0.74 0.13 0.65 0.10 (0.46)	31.06 1.05 0.70 0.17 0.65 0.12 0.12	31.74 0.79 0.61 0.16 0.62 0.10 0.10	31.76 0.62 0.55 0.13 0.63 0.09 (0.37)	35.84 0.87 0.48 0.10 0.63 0.07 (0.43)	30.57 0.59 0.44 0.10 0.63 0.08 (0.19)	29.57 0.62 0.47 0.11 0.63 0.09 (0.34)	28.35 0.50 0.59 0.13 0.62 0.10 (0.36)	30.60 0.75 0.55 0.20 0.61 0.10 (0.40)	52.63 0.81 0.71 0.15 0.60 0.08 (0.68)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	40.07 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10	30.95 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13	34.97 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21	31.06 1.05 0.70 0.17 0.65 0.12 0.12 0.20	31.74 0.79 0.61 0.16 0.62 0.10 0.10 0.24	31.76 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15	35.84 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11	30.57 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12	29.57 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16	28.35 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14	30.60 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20	52.63 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	40.07 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83)	30.95 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67)	34.97 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67)	31.06 1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08)	31.74 0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13)	31.76 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52)	35.84 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54)	30.57 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31)	29.57 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50)	28.35 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50)	30.60 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60)	52.63 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78)
LBMP NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	40.07 0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83) 0.37	30.95 1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67) 0.37	34.97 0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67) 0.38	31.06 1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08) 0.38	31.74 0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13) 0.38	31.76 0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52) 0.38	35.84 0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54) 0.38	30.57 0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31) 0.38	29.57 0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50) 0.38	28.35 0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50) 0.38	30.60 0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60) 0.37	52.63 0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78) 0.37

^{*} Excludes ICAP payments. Market Mitigation and Analysis Prepared: 1/9/2019 9:39 AM



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

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

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

NYISO Markets Transactions

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DAME External TC LEMPR Energy Sales			, ,						, ,		, ,		
DAM Bilaters Importable Bilaterials 59%	<u>~·</u>												
Part	;												
Property													
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Balancing Energy LESI Internal LEMP Energy Sales	DAM Bilateral - Wheel Through Bilaterals	1%	2%	2%	2%	2%	2%	2%	2%	2%	1%	1%_	2%
Balancing Energy External Football Mile Princip Mile State 1978 19		-149,619	-299,377	-386,811	-72,862	-29,539	-354,112	-80,438	-44,732	-210,436	-314,885	-304,277	-428,748
Balancing Energy Bilatoria - Internal Bilatorials 9% 5% 0% 0% 111% 22% 5% 10% 27% 7% 20% 33% 33% 336	Balancing Energy LSE Internal LBMP Energy Sales	-147%	-101%	-128%	-208%	-458%	-113%	-123%	-75%	-82%	-105%	-100%	-94%
Balancing Energy Bilaterial -Engont/Norther Bilaterials 20% 60%	Balancing Energy External TC LBMP Energy Sales	74%	24%	37%	189%	564%	29%	129%	209%	14%	30%	18%	27%
Balancing Energy Bilaterial - Expont/Non-LBMP Marker Bilaterials 25% 65% 65% 103% 55% 55% 23% 14% 25% 24% 24% 27% 24% 24% 24% 24% 25% 24% 24% 25% 24% 24% 25% 24% 24% 25% 24% 24% 25	Balancing Energy Bilateral - Internal Bilaterals	9%	5%	0%	-11%	29%	5%	18%	23%	7%	2%	3%	3%
Parameter Par	Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%
LEMP	Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%	9%	6%	34%	51%	3%	14%	25%	3%	0%	0%	0%
EleMP 1978 1979	Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-36%	-15%	-103%	-287%	-23%	-138%	-281%	-42%	-27%	-31%	-36%
Import Bilaterals	Transactions Summary												
Export Bilaterals	LBMP	63%	59%	59%	62%	63%	61%	66%	68%	64%	63%	64%	61%
Part	Internal Bilaterals	30%	32%	33%	30%	29%	31%	27%	25%	28%	30%	31%	31%
Part	Import Bilaterals	5%	5%	6%	5%	5%	5%	4%	4%	5%	5%	3%	5%
Market Share Or Total Load 15%	Export Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	2%
Day Ahead Market 101.0% 102.4% 102.9% 100.6% 100.2% 100.2% 100.3% 101.3% 101.3% 102.4% 102.4% 103.3% 133.1% 103.1%	·	1%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%	1%
Parameter 1.0% 2.4% 2.4% 3.2% 3.	Market Share of Total Load				,	,					,		
Parameter 1.0% 2.4% 2.4% 3.2% 3.		101.0%	102.4%	102.9%	100.6%	100.2%	102.6%	100.5%	100.3%	101.5%	102.4%	102.3%	103.1%
Policy P													
Average Daily Energy Sendout/Month GWh													
Part		•											, ,
Park Ahead Market MWh													
Park Ahead Market MWh													
DAM LSE Internal LBMP Energy Sales 57% 57% 55% 56% 56% 56% 60% 62% 61% 57% 55% 58% 58% DAM Bitateral - Internal Bilaterals 22% 22% 11% 11% 11% 11% 11% 11% 11% 11% 20% 34% 32% 32% 34% 32% 34% 12% 32% 34% 32% 34% 32% 34% 32% 34% 32% 34% 32% 34% 35% 34% 45% 55% 56% 66% 44% 55% 55% 5% 56% 66% 44% 55% 55% 55% 56% 66% 44% 55% 25%	<u>2017</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
DAM External TC LBMP Energy Sales 2% 2% 1% 1% 1% 1% 1% 1% 2% 32% 33% 5% 30% 31% 29% 29% 32% 32% 34% 35% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	Day Ahead Market MWh	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695	13,252,368	13,042,826	14,829,403
DAM Bilateral- Internal Bilaterals 32% 34% 34% 36% 37% 29% 29% 32% 34% 32% DAM Bilateral - Import/Non-LBMP Market Bilaterals 5% 5% 5% 2% 3% 3% 4% 2% 2% 2% 2% 2% 3% 3% 4% 2% 2% 2% 2% 2% 2% 3% 3% 4% 2% 2% 2% 2% 2% 3% 4% 4% 2% 2% 2% 2% 2% 3% 4% 4% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%	DAM LSE Internal LBMP Energy Sales	57%	57%	55%	54%	58%	60%	62%	61%	57%	55%	53%	55%
DAM Bilateral - Importi/Non-LBMP Market Bilaterals 5% 5% 5% 6% 4% 5% 4% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 2%	DAM External TC LBMP Energy Sales	2%	2%	1%	1%	1%	1%	1%	1%	1%	2%	3%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals 2%	DAM Bilateral - Internal Bilaterals	32%	32%	34%	35%	33%	31%	29%	29%	32%	34%	34%	32%
DAM Bilateral - Wheel Through Bilaterals 2% 2% 2% 2% 2% 2% 3% 3%	DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	4%	5%	4%	5%	5%	5%	5%	5%
DAM Bilateral - Wheel Through Bilaterals 2% 2% 2% 2% 2% 2% 3% 3%	DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%	2%
Balancing Energy LSE Internal LBMP Energy Sales -157% -132% -148% -115% -120% -114% -100% -87% -76% -102% -102% -99% Balancing Energy External TC LBMP Energy Sales 64% 33% 44% 22% 28% 23% 18% 13% 12% 26% 45% 25% 25% 25% 25% 25% 23% 23% 18% 33% 2% 33% 2% 33% 5% 5% 5% 5% 14% 25%		00/									2%	3%	2%
Balancing Energy LSE Internal LBMP Energy Sales -157% -132% -148% -115% -120% -114% -100% -87% -76% -102% -102% -99% Balancing Energy External TC LBMP Energy Sales 64% 33% 44% 22% 28% 23% 18% 13% 12% 26% 45% 25% 25% 25% 25% 25% 23% 23% 18% 33% 2% 33% 2% 33% 5% 5% 5% 5% 14% 25%		2%	2%	2%	2%	2%	2%	3%	3%	4%	-510,721	-410 072	
Balancing Energy External TC LBMP Energy Sales 64% 39% 44% 22% 28% 23% 18% 13% 12% 26% 45% 25% Balancing Energy Bilateral - Internal Bilaterals 15% 8% 12% 5% 1% 4% 3% 2% 3% 5% 5% -1% Balancing Energy Bilateral - Internal Bilaterals 0% 4% 0%	Balancing Energy Market MWh										•	710.012	-254.003
Balancing Energy Bilateral - Internal Bilaterals 15% 8% 12% 5% 1% 4% 3% 2% 3% 5% 5% -1% Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals 0% 4% 0%		-256,448	-407,284	-509,053	-466,426	-666,048	-564,312	-747,473	-853,898	-633,990	/ · ·		·
Balancing Energy Bilateral - ImportI/Non-LBMP Market Bilaterals 0% 4% 0%	Balancing Energy LSE Internal LBMP Energy Sales	-256,448 -157%	-407,284 -132%	-509,053 -148%	-466,426 -115%	-666,048 -120%	-564,312 -114%	-747,473 -100%	-853,898 -87%	-633,990 -76%		-108%	-99%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals 10% 7% 5% 4% 3% 3% 1% 1% 4% 7% 9% Balancing Energy Bilateral - Wheel Through Bilaterals -32% -26% -13% 15% -12% -16% -22% -29% -40% -33% -49% -34% Transactions Summary LBMP 58% 57% 55% 54% 58% 60% 62% 61% 58% 56% 56% 60% Internal Bilaterals 33% 34% 36% 37% 34% 32% 30% 31% 33% 36% 36% 32% Import Bilaterals 5% 5% 5% 6% 4% 5%	Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales	-256,448 -157% 64%	-407,284 -132% 39%	-509,053 -148% 44%	-466,426 -115% 22%	-666,048 -120% 28%	-564,312 -114% 23%	-747,473 -100% 18%	-853,898 -87% 13%	-633,990 -76% 12%	26%	-108% 45%	-99% 25%
Ralancing Energy Bilateral - Wheel Through Bilaterals	Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	-256,448 -157% 64% 15%	-407,284 -132% 39% 8%	-509,053 -148% 44% 12%	-466,426 -115% 22% 5%	-666,048 -120% 28% 1%	-564,312 -114% 23% 4%	-747,473 -100% 18% 3%	-853,898 -87% 13% 2%	-633,990 -76% 12% 3%	26% 5%	-108% 45% 5%	-99% 25% -1%
Transactions Summary LBMP 58% 57% 55% 54% 58% 60% 62% 61% 58% 56% 56% 60% Internal Bilaterals 33% 34% 36% 37% 34% 32% 30% 31% 33% 36% 32% Import Bilaterals 5% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% <t< td=""><td>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</td><td>-256,448 -157% 64% 15% 0%</td><td>-407,284 -132% 39% 8% 4%</td><td>-509,053 -148% 44% 12% 0%</td><td>-466,426 -115% 22% 5% 0%</td><td>-666,048 -120% 28% 1% 0%</td><td>-564,312 -114% 23% 4% 0%</td><td>-747,473 -100% 18% 3% 0%</td><td>-853,898 -87% 13% 2% 0%</td><td>-633,990 -76% 12% 3% 0%</td><td>26% 5% 0%</td><td>-108% 45% 5% 0%</td><td>-99% 25% -1% 0%</td></t<>	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	-256,448 -157% 64% 15% 0%	-407,284 -132% 39% 8% 4%	-509,053 -148% 44% 12% 0%	-466,426 -115% 22% 5% 0%	-666,048 -120% 28% 1% 0%	-564,312 -114% 23% 4% 0%	-747,473 -100% 18% 3% 0%	-853,898 -87% 13% 2% 0%	-633,990 -76% 12% 3% 0%	26% 5% 0%	-108% 45% 5% 0%	-99% 25% -1% 0%
LBMP 58% 57% 55% 54% 58% 60% 62% 61% 58% 56% 56% 60% Internal Bilaterals 33% 34% 36% 37% 34% 32% 30% 31% 33% 36% 32% Import Bilaterals 5% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%	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	-256,448 -157% 64% 15% 0% 10%	-407,284 -132% 39% 8% 4% 7%	-509,053 -148% 44% 12% 0% 5%	-466,426 -115% 22% 5% 0% 4%	-666,048 -120% 28% 1% 0% 3%	-564,312 -114% 23% 4% 0% 3%	-747,473 -100% 18% 3% 0% 1%	-853,898 -87% 13% 2% 0% 1%	-633,990 -76% 12% 3% 0% 1%	26% 5% 0% 4%	-108% 45% 5% 0% 7%	-99% 25% -1% 0% 9%
Internal Bilaterals 33% 34% 36% 37% 34% 32% 30% 31% 33% 36% 36% 32% Import Bilaterals 5% 5% 5% 6% 4% 5% 2%	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	-256,448 -157% 64% 15% 0% 10%	-407,284 -132% 39% 8% 4% 7%	-509,053 -148% 44% 12% 0% 5%	-466,426 -115% 22% 5% 0% 4%	-666,048 -120% 28% 1% 0% 3%	-564,312 -114% 23% 4% 0% 3%	-747,473 -100% 18% 3% 0% 1%	-853,898 -87% 13% 2% 0% 1%	-633,990 -76% 12% 3% 0% 1%	26% 5% 0% 4%	-108% 45% 5% 0% 7%	-99% 25% -1% 0% 9%
Import Bilaterals 5% 5% 5% 6% 4% 5% 2%	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	-256,448 -157% 64% 15% 0% 10% -32%	-407,284 -132% 39% 8% 4% 7% -26%	-509,053 -148% 44% 12% 0% 5% -13%	-466,426 -115% 22% 5% 0% 4% -15%	-666,048 -120% 28% 1% 0% 3% -12%	-564,312 -114% 23% 4% 0% 3% -16%	-747,473 -100% 18% 3% 0% 1% -22%	-853,898 -87% 13% 2% 0% 1% -29%	-633,990 -76% 12% 3% 0% 1% -40%	26% 5% 0% 4% -33%	-108% 45% 5% 0% 7% -49%	-99% 25% -1% 0% 9% -34%
Export Bilaterals 2%	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	-256,448 -157% 64% 15% 0% 10% -32%	-407,284 -132% 39% 8% 4% 7% -26%	-509,053 -148% 44% 12% 0% 5% -13%	-466,426 -115% 22% 5% 0% 4% -15%	-666,048 -120% 28% 1% 0% 3% -12%	-564,312 -114% 23% 4% 0% 3% -16%	-747,473 -100% 18% 3% 0% 1% -22%	-853,898 -87% 13% 2% 0% 1% -29%	-633,990 -76% 12% 3% 0% 1% -40%	26% 5% 0% 4% -33%	-108% 45% 5% 0% 7% -49%	-99% 25% -1% 0% 9% -34%
Wheels Through 2% 2% 2% 2% 1% 2% 2% 2% 1% 1% 1% 1% Market Share of Total Load Day Ahead Market 101.8% 103.3% 103.8% 104.0% 105.4% 104.7% 105.7% 104.7% 104.0% 103.2% 101.7% Balancing Energy + -1.8% -3.3% -3.8% -4.0% -5.4% -4.1% -4.7% -5.7% -4.7% -4.0% -3.2% -1.7% Total MWH 13,878,571 12,157,922 13,474,812 11,595,049 12,300,933 13,841,868 15,758,328 15,095,029 13,466,705 12,741,647 12,632,754 14,575,400	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	-256,448 -157% 64% 15% 0% 10% -32%	-407,284 -132% 39% 8% 4% 7% -26%	-509,053 -148% 44% 12% 0% 5% -13%	-466,426 -115% 22% 5% 0% 4% -15%	-666,048 -120% 28% 1% 0% 3% -12%	-564,312 -114% 23% 4% 0% 3% -16%	-747,473 -100% 18% 3% 0% 1% -22%	-853,898 -87% 13% 2% 0% 1% -29%	-633,990 -76% 12% 3% 0% 1% -40%	26% 5% 0% 4% -33% 56% 36%	-108% 45% 5% 0% 7% -49% 56% 36%	-99% 25% -1% 0% 9% -34% 60% 32%
Market Share of Total Load Day Ahead Market 101.8% 103.3% 103.8% 104.0% 105.4% 104.7% 105.7% 104.7% 104.0% 103.2% 101.7% Balancing Energy + -1.8% -3.3% -3.8% -4.0% -5.4% -4.7% -5.7% -4.7% -4.0% -3.2% -1.7% Total MWH 13,878,571 12,157,922 13,474,812 11,595,049 12,300,933 13,841,868 15,758,328 15,095,029 13,466,705 12,741,647 12,632,754 14,575,400	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	-256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5%	-407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5%	-509,053 -148% 44% 12% 0% 5% -13%	-466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6%	-666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4%	-564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5%	-747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5%	-853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5%	-633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5%	26% 5% 0% 4% -33% 56% 36% 5%	-108% 45% 5% 0% 7% -49% 56% 36% 5%	-99% 25% -1% 0% 9% -34% 60% 32% 5%
Day Ahead Market 101.8% 103.3% 103.8% 104.0% 105.4% 104.7% 105.7% 104.7% 104.0% 103.2% 101.7% Balancing Energy + -1.8% -3.3% -3.8% -4.0% -5.4% -4.1% -4.7% -5.7% -4.7% -4.0% -3.2% -1.7% Total MWH 13,878,571 12,157,922 13,474,812 11,595,049 12,300,933 13,841,868 15,758,328 15,095,029 13,466,705 12,741,647 12,632,754 14,575,400	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	-256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2%	-407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2%	-509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2%	-466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2%	-666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2%	-564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2%	-747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2%	-853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2%	-633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2%	26% 5% 0% 4% -33% 56% 36% 5% 2%	-108% 45% 5% 0% 7% -49% 56% 36% 5% 2%	-99% 25% -1% 0% 9% -34% 60% 32% 5% 2%
Balancing Energy + -1.8% -3.3% -3.8% -4.0% -5.4% -4.1% -4.7% -5.7% -4.	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 Wheels Through	-256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2%	-407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2%	-509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2%	-466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2%	-666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2%	-564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2%	-747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2%	-853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2%	-633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2%	26% 5% 0% 4% -33% 56% 36% 5% 2%	-108% 45% 5% 0% 7% -49% 56% 36% 5% 2%	-99% 25% -1% 0% 9% -34% 60% 32% 5% 2%
Total MWH 13,878,571 12,157,922 13,474,812 11,595,049 12,300,933 13,841,868 15,758,328 15,095,029 13,466,705 12,741,647 12,632,754 14,575,400	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	-256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2%	-407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2%	-509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2%	-466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2%	-666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2%	-564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	-747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2%	-853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2%	-633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2%	26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	-108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	-99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
	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	-256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2%	-407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2%	-509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 103.8%	-466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2%	-666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 105.4%	-564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	-747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2%	-853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	-633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	-108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	-99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
Average Daily Energy Sendout/Month GWh 431 418 419 377 383 454 498 477 437 398 403 444	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 +	-256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2% 101.8% -1.8%	-407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	-509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% 103.8% -3.8%	-466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 104.0%	-666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2% 105.4% -5.4%	-564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1% 104.1% -4.1%	-747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 104.7% -4.7%	-853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2% 105.7% -5.7%	-633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 104.7% -4.7%	26% 5% 0% 4% -33% 56% 36% 5% 2% 1% 104.0% -4.0%	-108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1% 103.2% -3.2%	-99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1% 101.7% -1.7%
	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 + Total MWH	-256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2% 101.8% -1.8% 13,878,571	-407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 103.3% -3.3% 12,157,922	-509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% 103.8% -3.8% 13,474,812	-466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 104.0% -4.0% 11,595,049	-666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 105.4% -5.4% 12,300,933	-564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1% 104.1% -4.1% 13,841,868	-747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2% 104.7% -4.7% 15,758,328	-853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2% 105.7% -5.7% 15,095,029	-633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 104.7% -4.7% 13,466,705	26% 5% 0% 4% -33% 56% 36% 5% 2% 1% 104.0% -4.0% 12,741,647	-108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1% 103.2% -3.2% 12,632,754	-99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1% 101.7% -1.7% 14,575,400

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

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

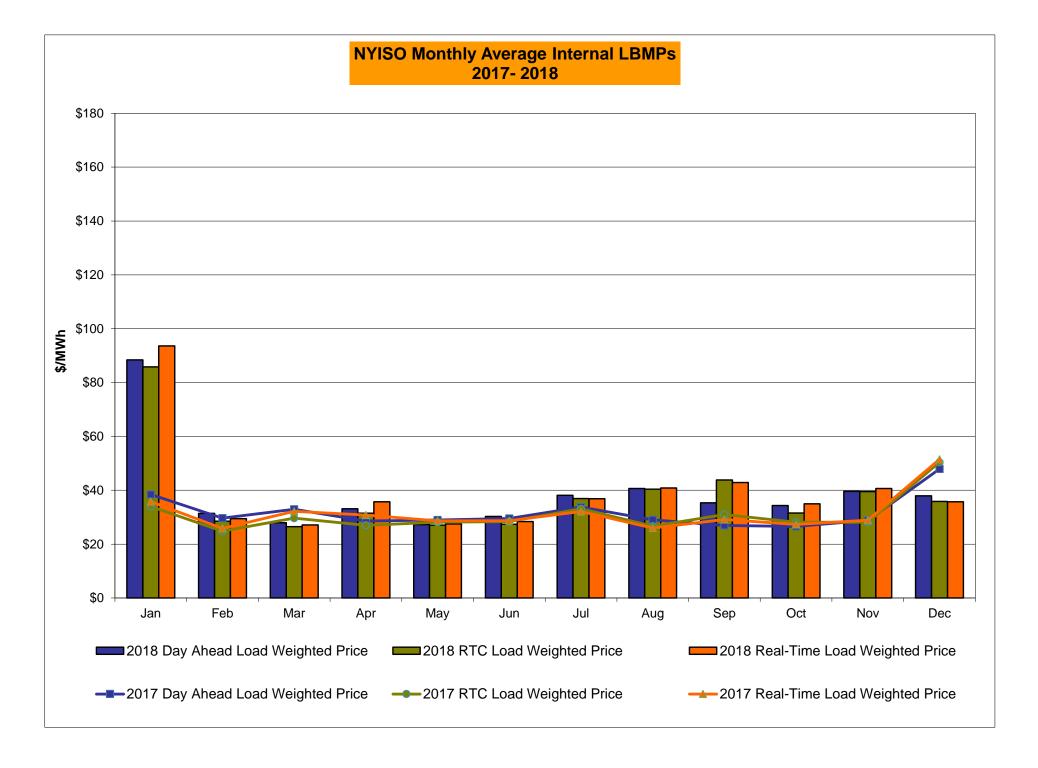
^{*} The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

NYISO Markets 2018 Energy Statistics

DAY ALIFAD I DMD	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
DAY AHEAD LBMP Price *	\$83.53	\$30.37	\$27.37	\$32.40	\$25.97	\$28.41	\$35.73	\$38.00	\$33.28	\$33.27	\$38.36	\$36.88
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25	\$16.51	\$12.01	\$9.24	\$11.36	\$11.61
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26	\$30.27	\$38.14	\$40.64	\$35.33	\$34.33	\$39.55	\$37.96
RTC LBMP	0 04.0=	407.70	00= 00	400.00	00= 40	400.00	A 040=	000.40	000 50	000.00	000.0=	40= 04
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 Daily Ellergy Gendour Month GWII	700	720	710	330	331	770	323	331	+30	333	711	720
				NVICO	Markata	2047 En a	way Ctati	-4i				
				NTISU	Markets	2017 Ene	ergy Statis	Stics				
	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	<u>December</u>
DAY AHEAD LBMP												
Price *	\$37.22	\$28.84	\$32.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	\$25.05	\$25.49	\$27.88	\$45.46
Standard Deviation	\$13.20	\$7.97	\$11.95	\$7.66	\$9.47	\$12.37	\$13.51	\$10.60	\$12.09	\$8.53	\$9.87	\$31.56
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95	\$26.57	\$28.83	\$47.90
RTC LBMP												
Price *	\$32.87	\$24.09	\$28.86		COC 40	ተ ጋር 40	# 00.04	#05.00	¢27.07	\$26.91	\$27.35	\$47.75
Standard Deviation				30 / D 1 / D	%26 19	370 40	3 3 H 8 4	425 26	T// M/			
Standard Deviation	•	-	•	\$26.19 \$10.36	\$26.19 \$21.29	\$26.40 \$14.76	\$30.84 \$18.14	\$25.26 \$13.08	\$27.97 \$27.14	•	•	·
	\$14.57	\$9.52	\$13.70	\$10.36	\$21.29	\$14.76	\$18.14	\$13.08	\$27.14	\$13.40	\$10.54	\$37.33
Load Weighted Price **	•	-	•	•	•	•	•	-	-	•	•	·
	\$14.57	\$9.52	\$13.70	\$10.36	\$21.29	\$14.76	\$18.14	\$13.08	\$27.14	\$13.40	\$10.54	\$37.33
Load Weighted Price **	\$14.57	\$9.52	\$13.70	\$10.36	\$21.29	\$14.76	\$18.14	\$13.08	\$27.14	\$13.40	\$10.54	\$37.33
Load Weighted Price ** REAL TIME LBMP	\$14.57 \$33.96	\$9.52 \$24.81	\$13.70 \$29.67	\$10.36 \$26.98	\$21.29 \$28.10	\$14.76 \$28.39	\$18.14 \$33.13	\$13.08 \$26.65	\$27.14 \$30.98	\$13.40 \$28.13	\$10.54 \$28.15	\$37.33 \$50.39
Load Weighted Price ** REAL TIME LBMP Price *	\$14.57 \$33.96 \$34.61	\$9.52 \$24.81 \$25.14	\$13.70 \$29.67 \$31.21	\$10.36 \$26.98 \$29.61	\$21.29 \$28.10 \$26.56	\$14.76 \$28.39 \$26.16	\$18.14 \$33.13 \$29.47	\$13.08 \$26.65 \$24.36	\$27.14 \$30.98 \$26.08	\$13.40 \$28.13 \$25.95	\$10.54 \$28.15 \$27.91	\$37.33 \$50.39 \$48.42

^{*} Average zonal load weighted prices.

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

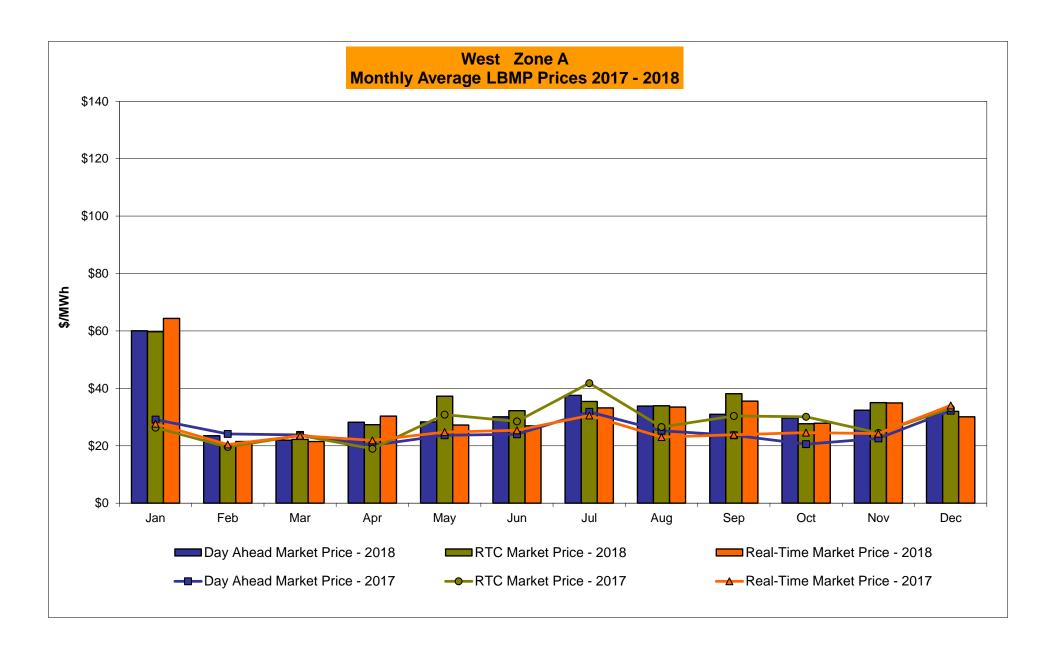


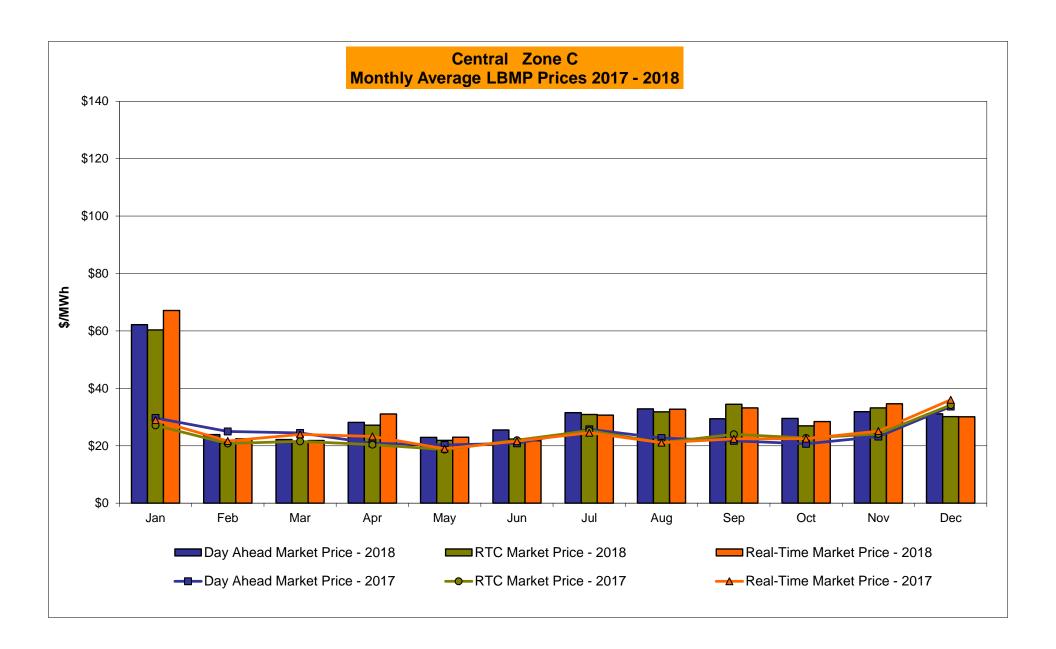
December 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

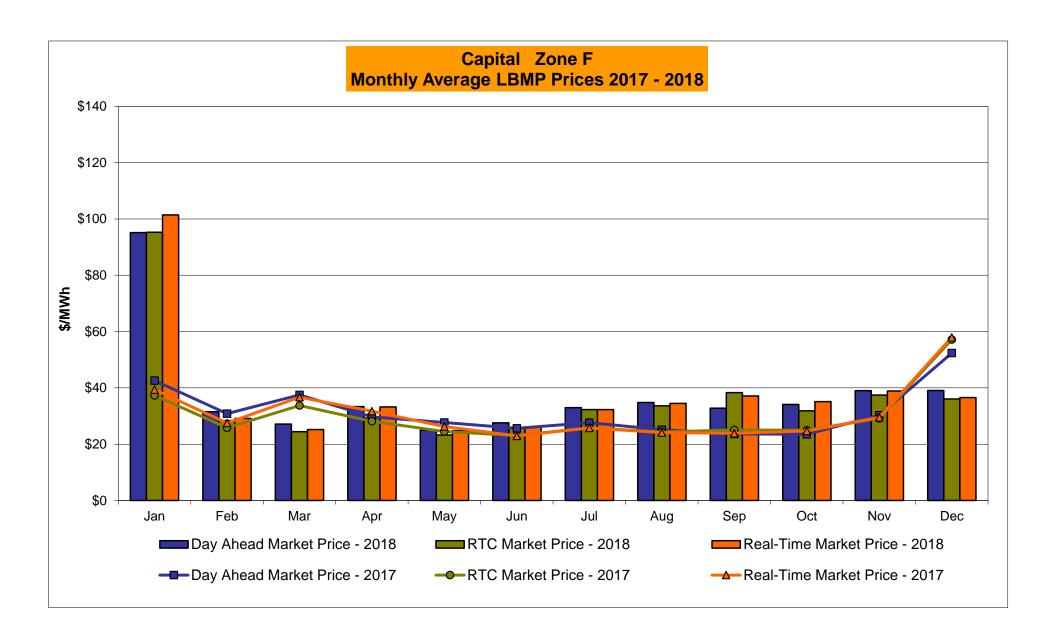
	WEST Zone A	GENESEE Zone B	NORTH Zone D	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY Zone G	MILLWOOD Zone H	DUNWOODIE Zone I	NEW YORK CITY Zone J	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	30.88	30.06	27.07	31.12	31.41	39.05	37.75	37.98	38.01	38.63	47.69
Standard Deviation	12.35	11.34	11.46	11.48	11.58	10.15	10.54	10.62	10.64	11.17	16.93
RTC LBMP											
Unweighted Price *	31.97	29.08	26.77	30.15	30.53	36.07	35.16	35.28	35.27	35.75	45.54
Standard Deviation	18.13	12.00	13.45	12.12	12.33	10.72	10.72	10.76	10.76	11.20	32.82
REAL TIME LBMP											
Unweighted Price *	30.11	29.02	25.37	30.10	30.35	36.56	35.54	35.67	35.66	36.07	44.27
Standard Deviation	18.61	17.55	25.77	17.79	18.16	18.02	17.54	17.62	17.59	17.82	25.68
	ONTARIO IESO	HYDRO QUEBEC (Wheel) (HYDRO QUEBEC Import/Export)	РЈМ	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		QUEBEC	QUEBEC	РЈМ		SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable	<u>Controllable</u>	<u>Controllable</u>
		QUEBEC	QUEBEC	PJM Zone P		SOUND CABLE	NORWALK				
DAY AHEAD LBMP	IESO Zone O	QUEBEC (Wheel) (Zone M	QUEBEC Import/Export) Zone M	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	Zone O 29.44	QUEBEC (Wheel) (Zone M 27.09	QUEBEC Import/Export) Zone M 26.60	<u>Zone P</u> 34.09	ENGLAND Zone N 42.50	SOUND CABLE Controllable Line 45.80	NORWALK Controllable Line 46.17	Controllable Line 43.76	Controllable Line 38.17	Controllable Line 38.25	Controllable Line 26.54
	IESO Zone O	QUEBEC (Wheel) (Zone M	QUEBEC Import/Export) Zone M	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price * Standard Deviation RTC LBMP	Zone O 29.44 10.68	QUEBEC (Wheel) (<u>Zone M</u> 27.09 11.57	QUEBEC Import/Export) Zone M 26.60 11.50	Zone P 34.09 10.43	Zone N 42.50 14.23	SOUND CABLE Controllable Line 45.80 16.54	NORWALK Controllable Line 46.17 17.13	Controllable Line 43.76 16.14	Controllable Line 38.17 10.68	Controllable Line 38.25 10.71	Controllable Line 26.54 11.15
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price *	29.44 10.68	QUEBEC (Wheel) (Zone M 27.09 11.57	QUEBEC Import/Export) Zone M 26.60 11.50	Zone P 34.09 10.43	ENGLAND Zone N 42.50 14.23	SOUND CABLE Controllable Line 45.80 16.54	NORWALK Controllable Line 46.17 17.13	23.76 43.76 16.14	28.17 10.68	28.25 10.71 35.58	26.54 11.15
Unweighted Price * Standard Deviation RTC LBMP	Zone O 29.44 10.68	QUEBEC (Wheel) (<u>Zone M</u> 27.09 11.57	QUEBEC Import/Export) Zone M 26.60 11.50	Zone P 34.09 10.43	Zone N 42.50 14.23	SOUND CABLE Controllable Line 45.80 16.54	NORWALK Controllable Line 46.17 17.13	Controllable Line 43.76 16.14	Controllable Line 38.17 10.68	Controllable Line 38.25 10.71	Controllable Line 26.54 11.15
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation REAL TIME LBMP	29.44 10.68 28.05 11.38	QUEBEC (Wheel) (Zone M 27.09 11.57 26.70 13.38	QUEBEC Import/Export) Zone M 26.60 11.50 26.23 13.88	Zone P 34.09 10.43 32.44 10.39	Zone N 42.50 14.23 41.87 19.51	SOUND CABLE Controllable Line 45.80 16.54 44.70 32.77	NORWALK Controllable Line 46.17 17.13	43.76 16.14 42.62 27.61	28.17 10.68 35.46 10.85	28.25 10.71 35.58 10.87	26.54 11.15 26.26 13.14
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	29.44 10.68	QUEBEC (Wheel) (Zone M 27.09 11.57	QUEBEC Import/Export) Zone M 26.60 11.50	Zone P 34.09 10.43	ENGLAND Zone N 42.50 14.23	SOUND CABLE Controllable Line 45.80 16.54	NORWALK Controllable Line 46.17 17.13	23.76 43.76 16.14	28.17 10.68	28.25 10.71 35.58	26.54 11.15

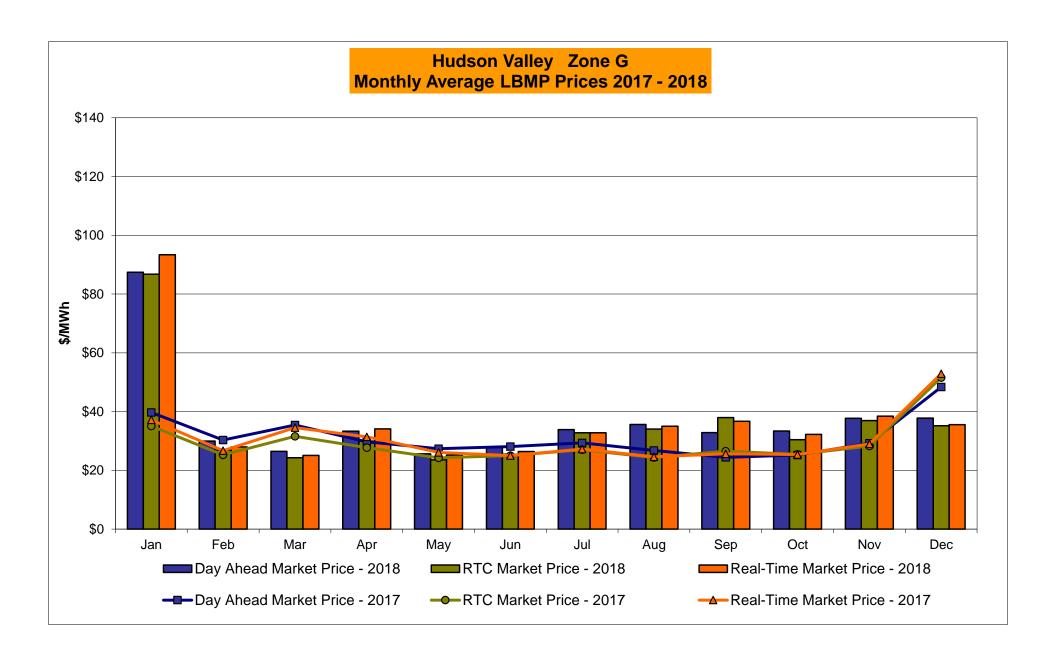
Market Mitigation and Analysis Prepared: 1/9/2019 9:38 AM

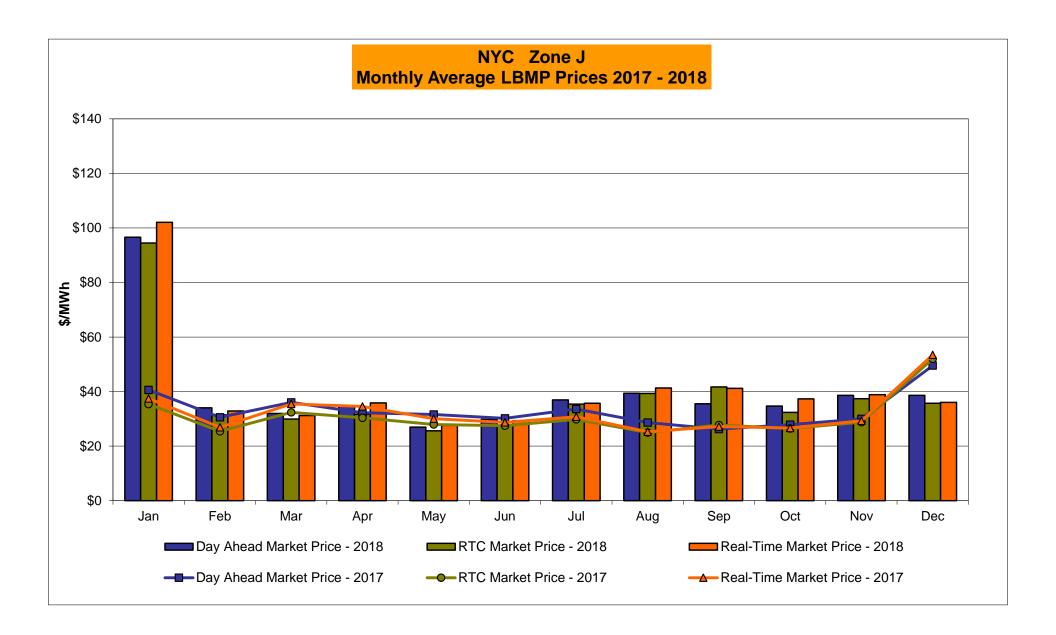
^{*} Straight LBMP averages

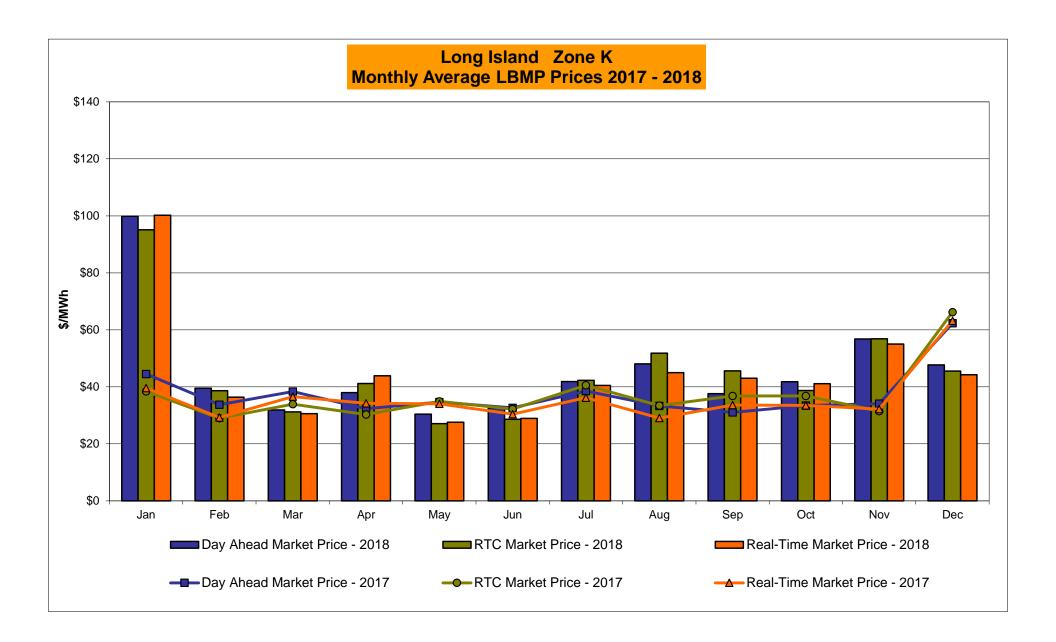


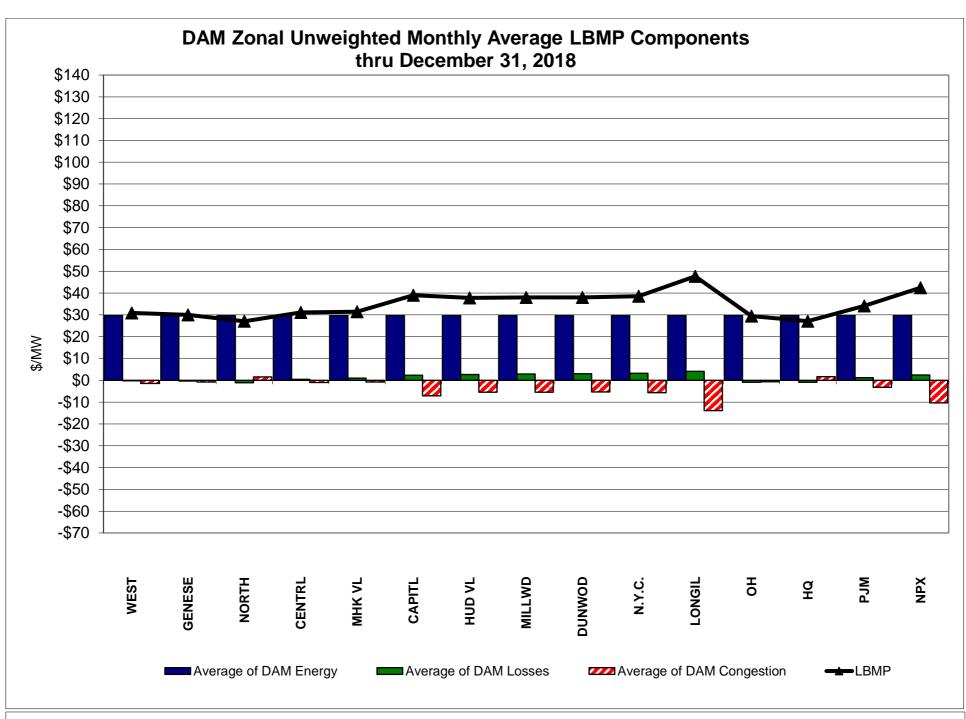


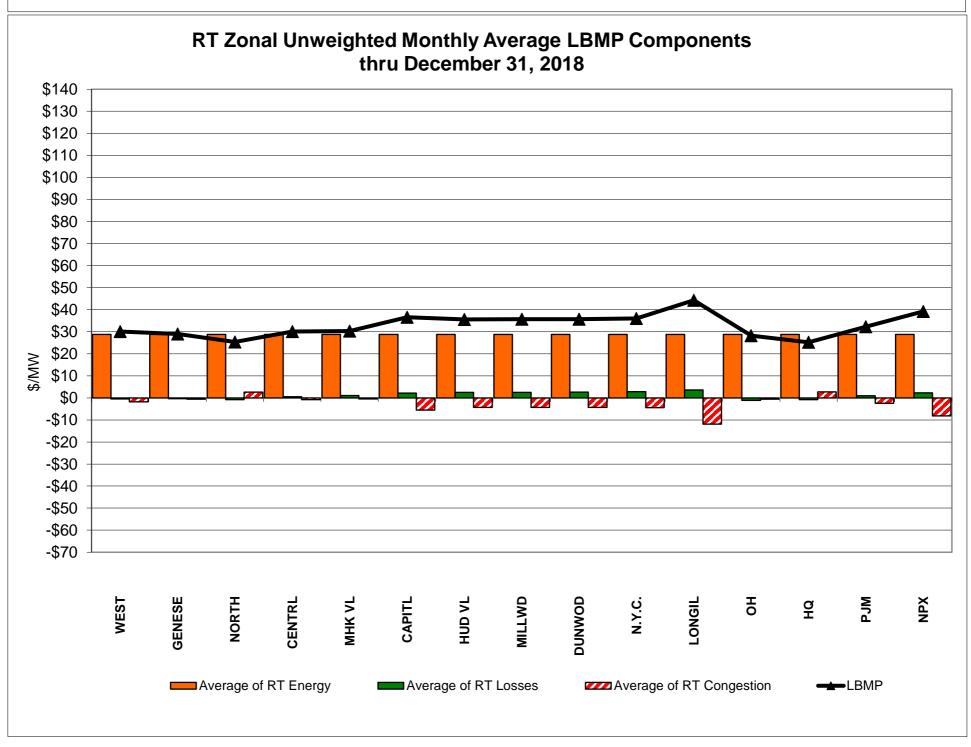




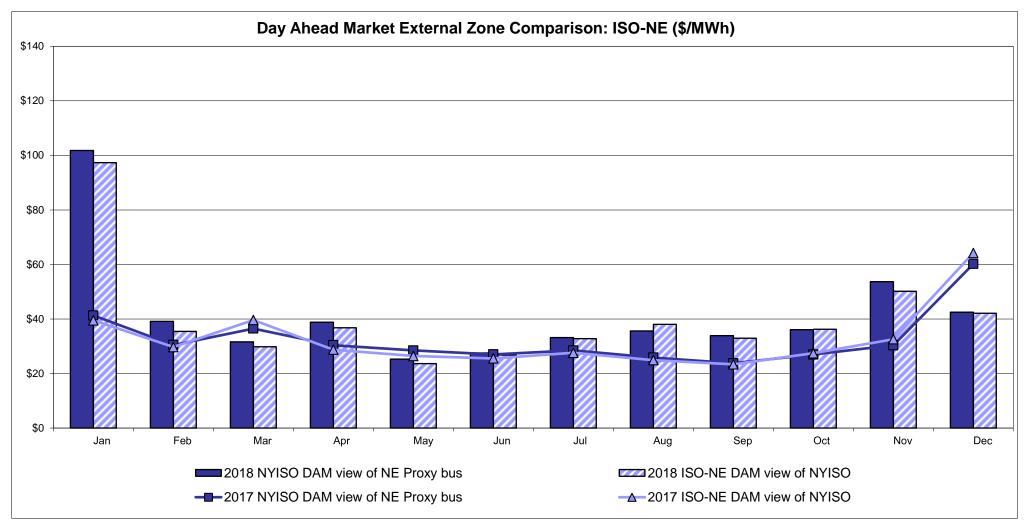


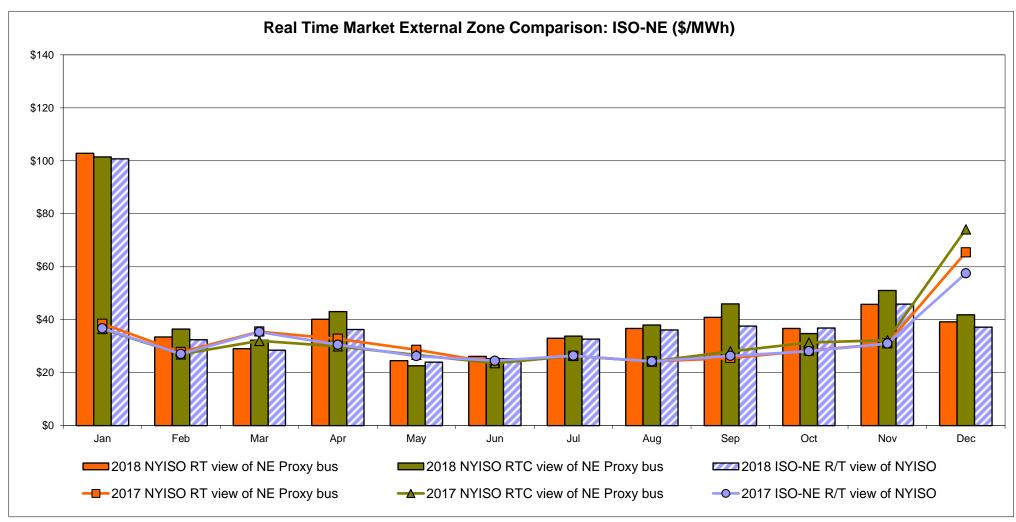




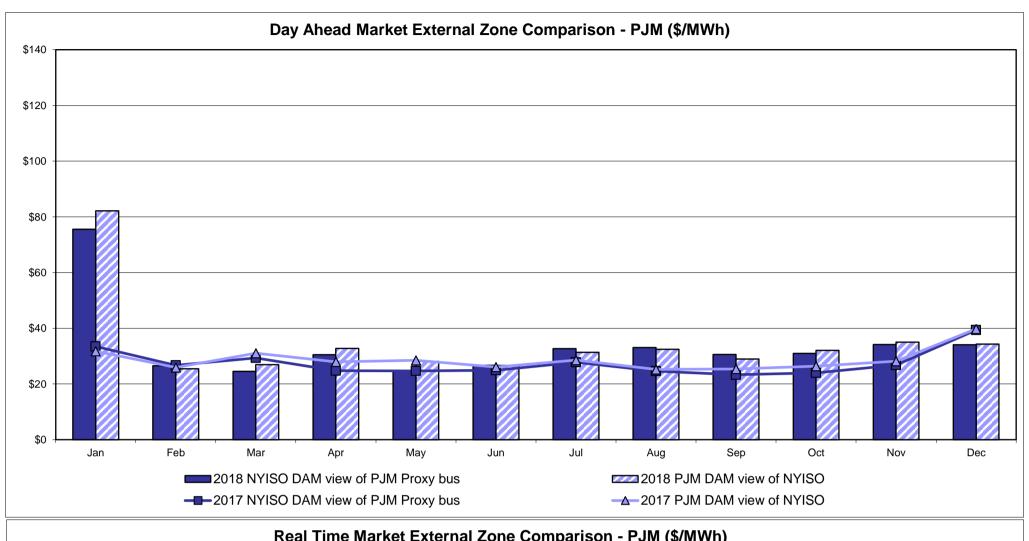


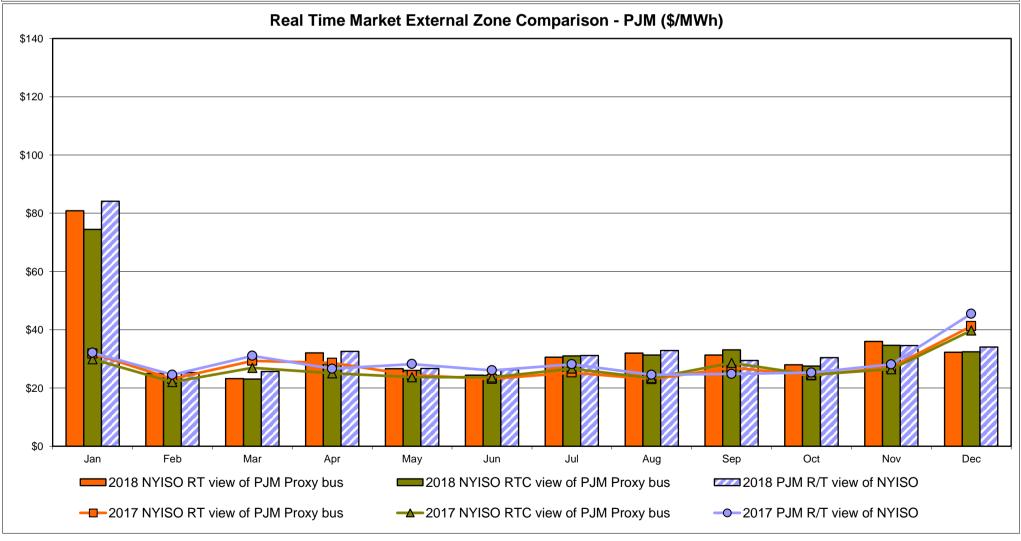
External Comparison ISO-New England



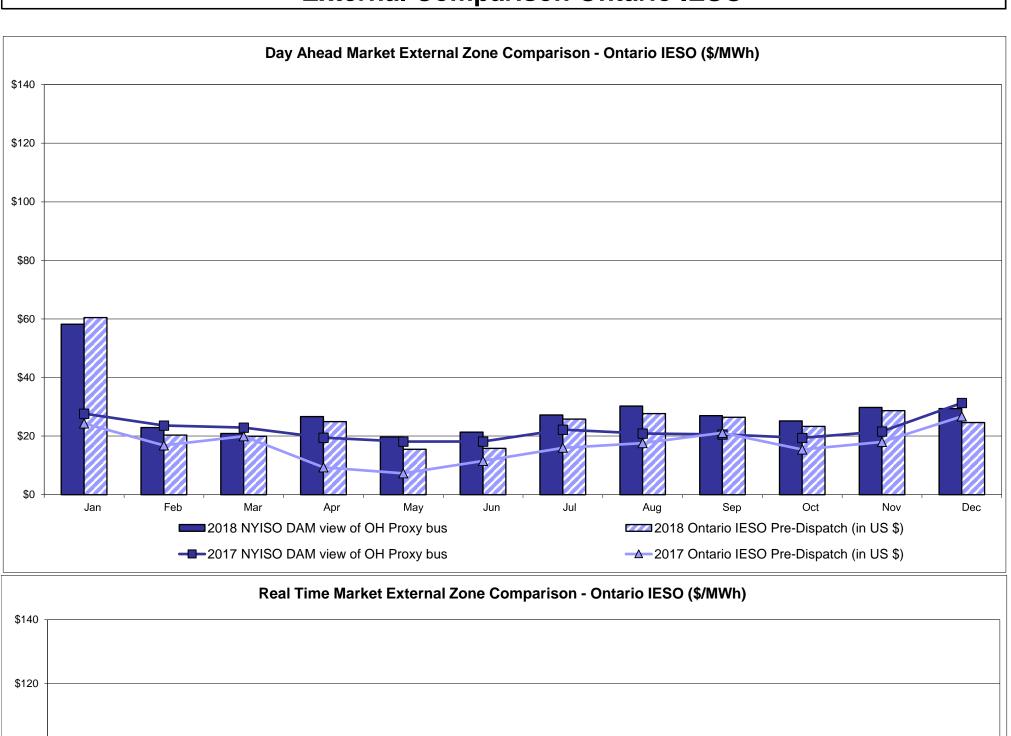


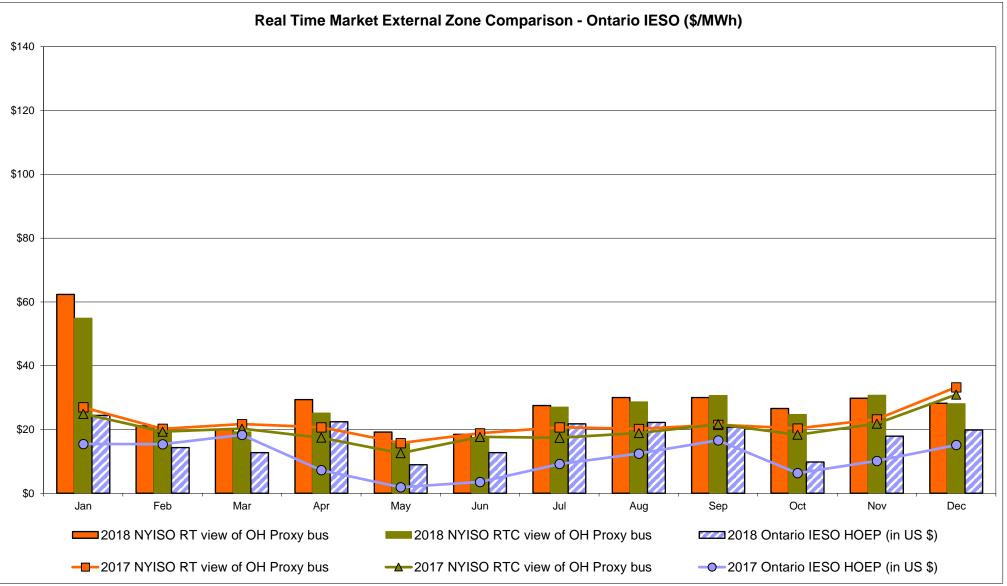
External Comparison PJM





External Comparison Ontario IESO

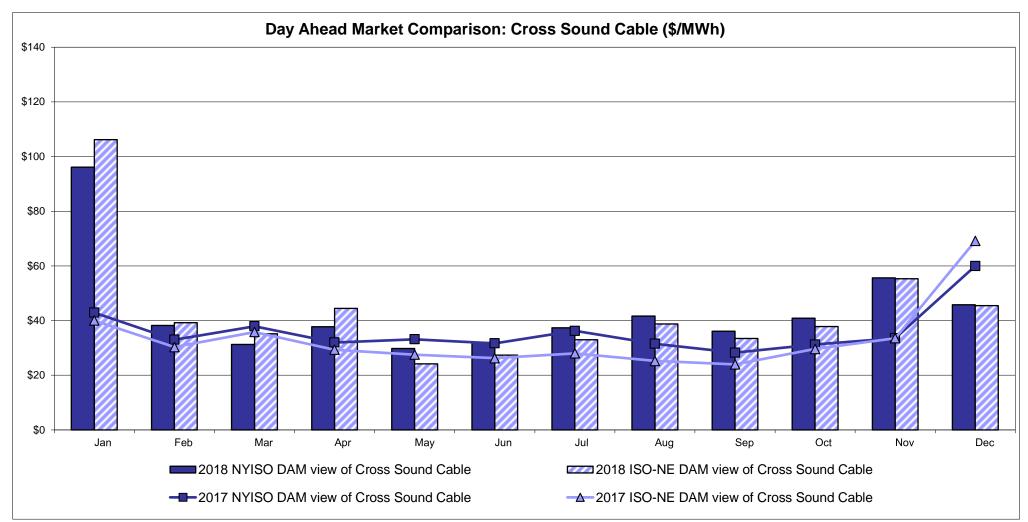


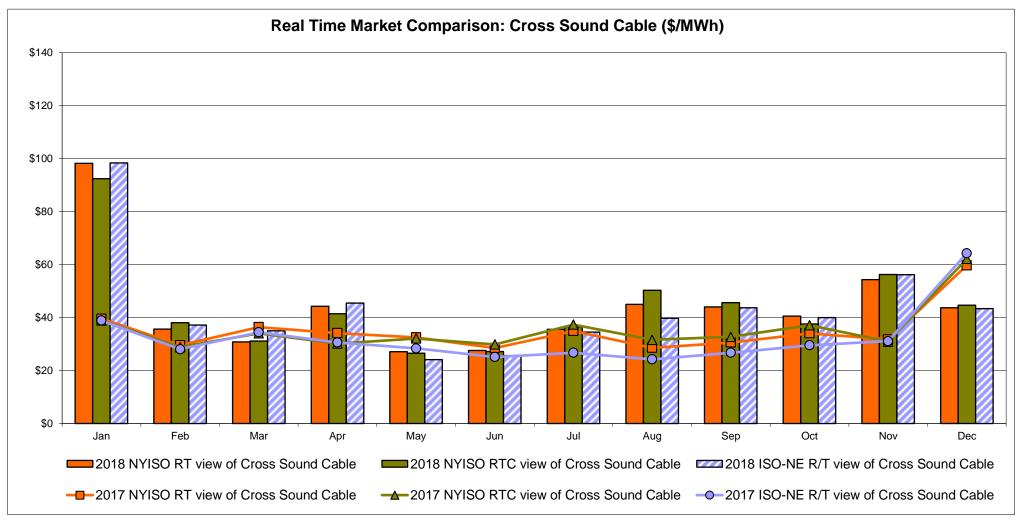


Notes: Exchange factor used for December 2018 was 0.744934445768772 to US

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

External Controllable Line: Cross Sound Cable (New England)





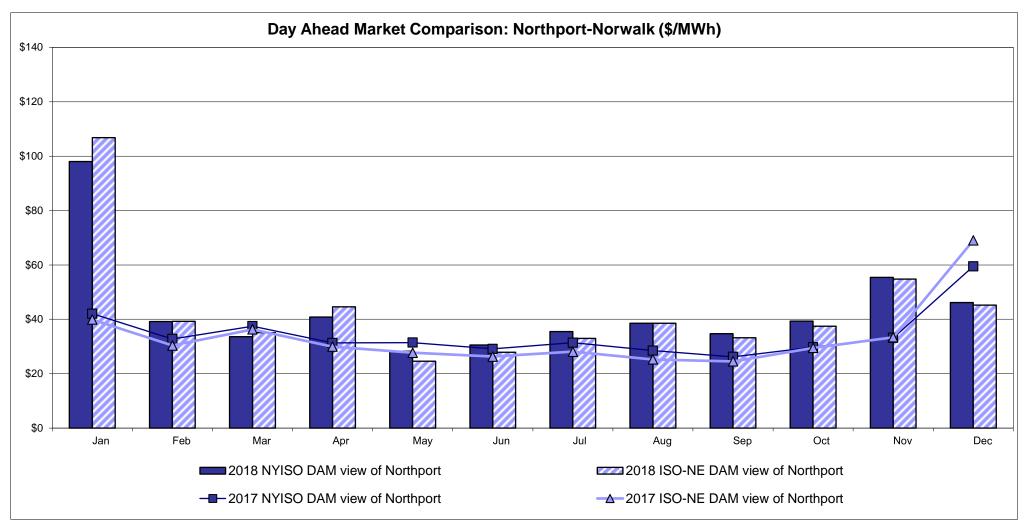
Note

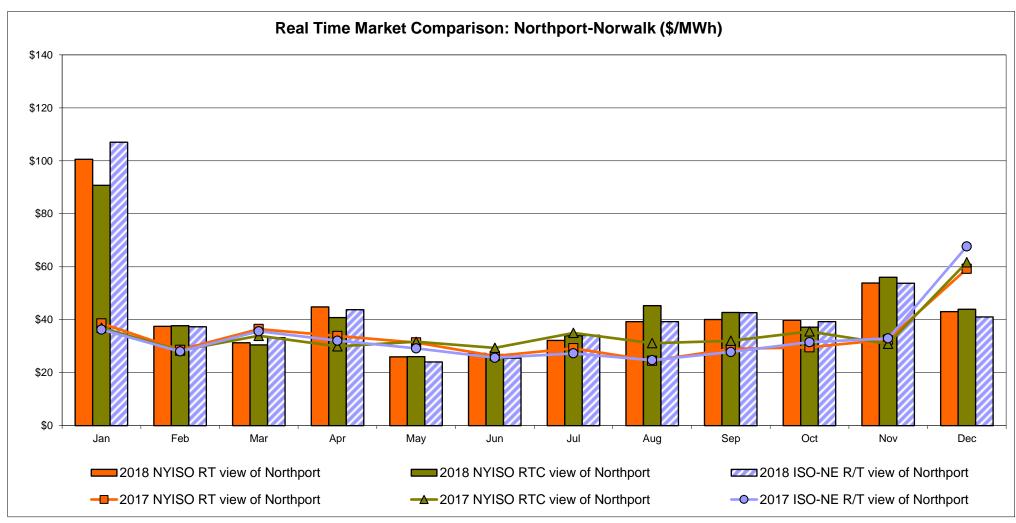
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)





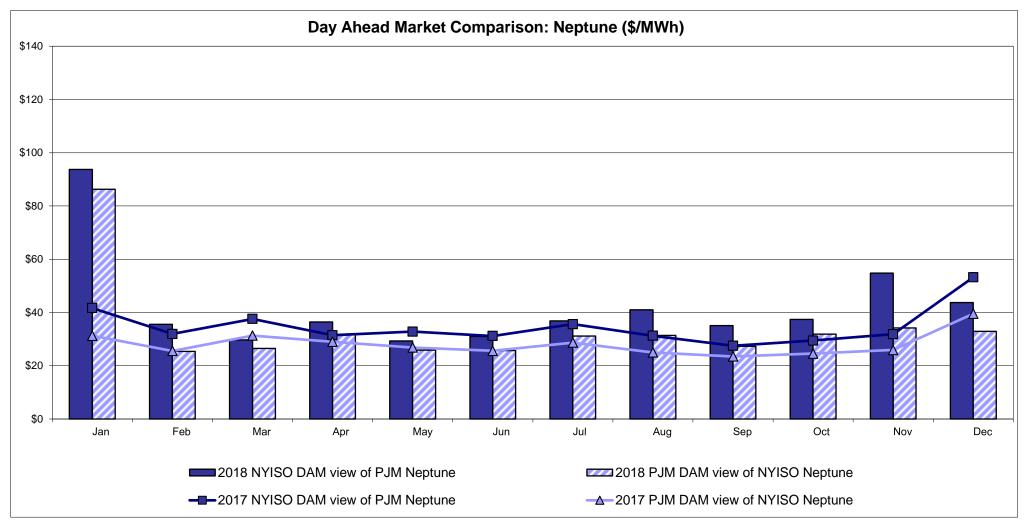
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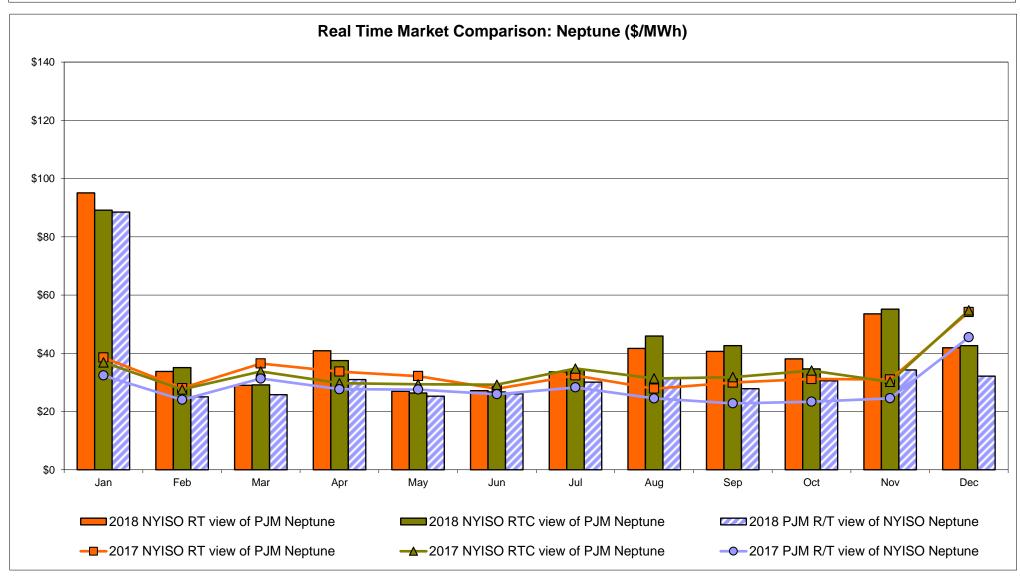
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

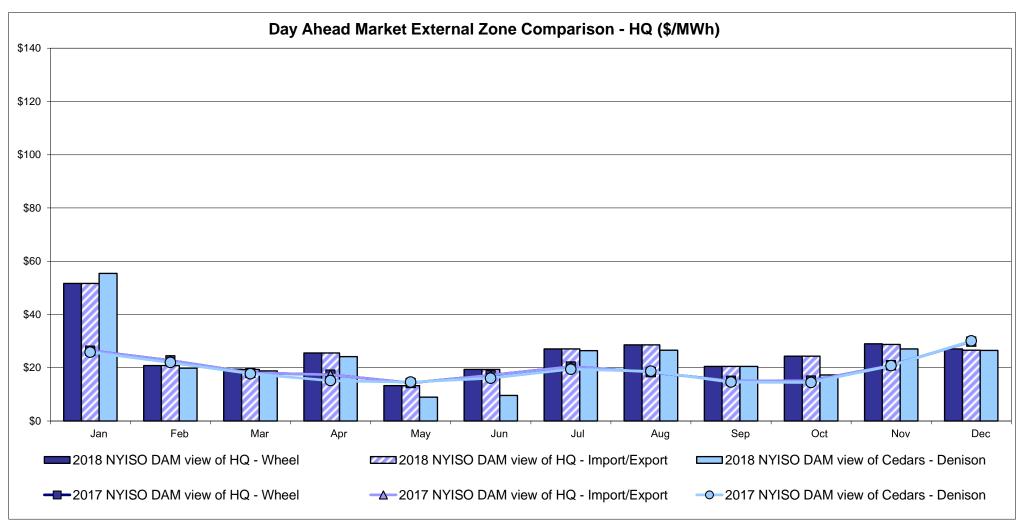
The DAM and R/T prices at the 1385 interface are used for NYISO.

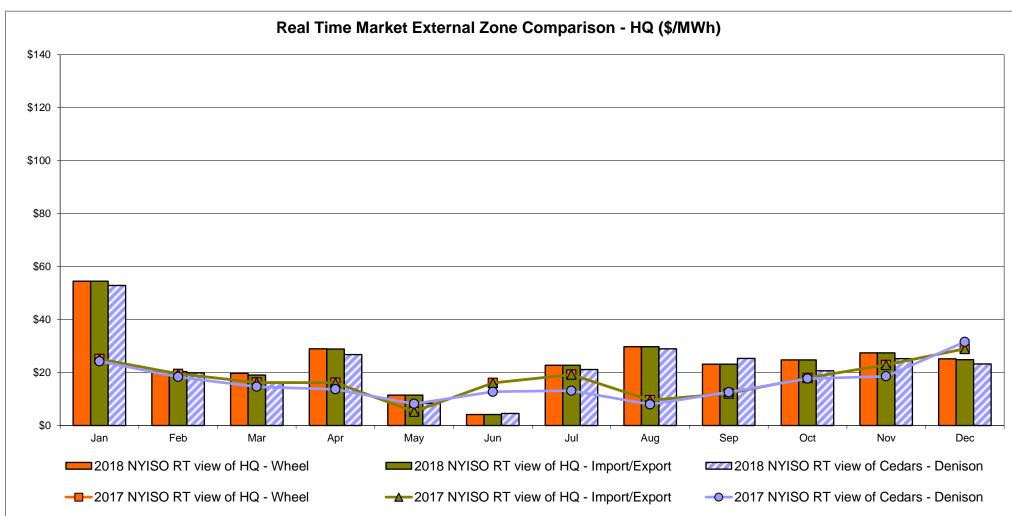
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

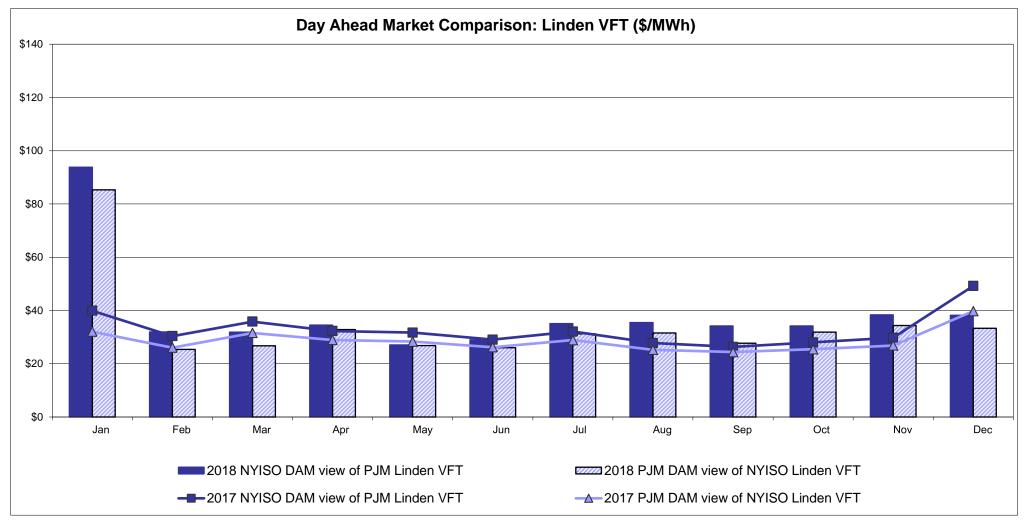


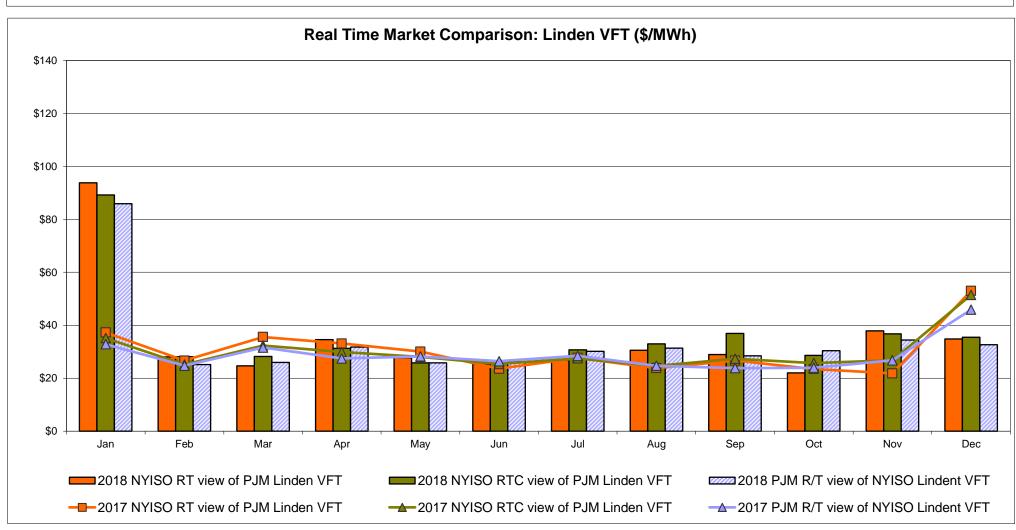


Note

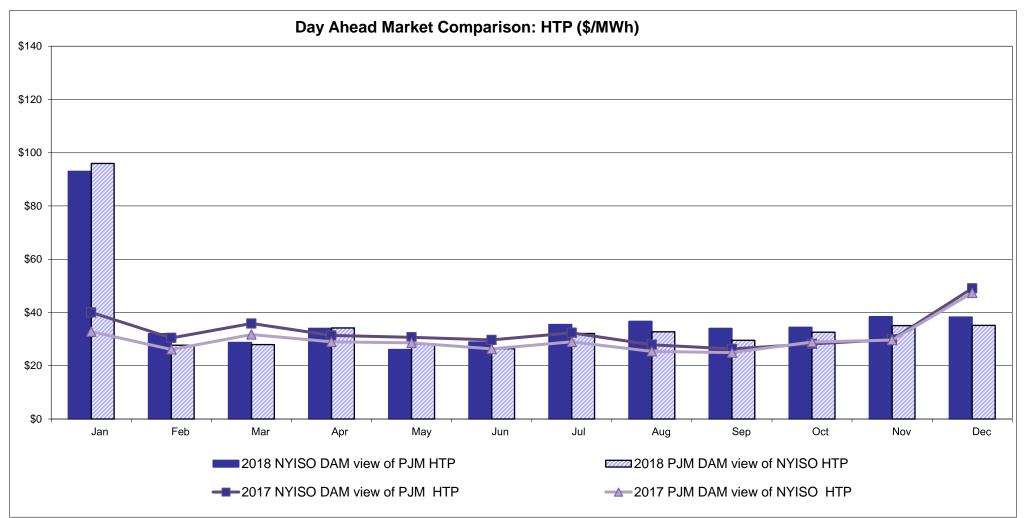
Hydro-Quebec Prices are unavailable.

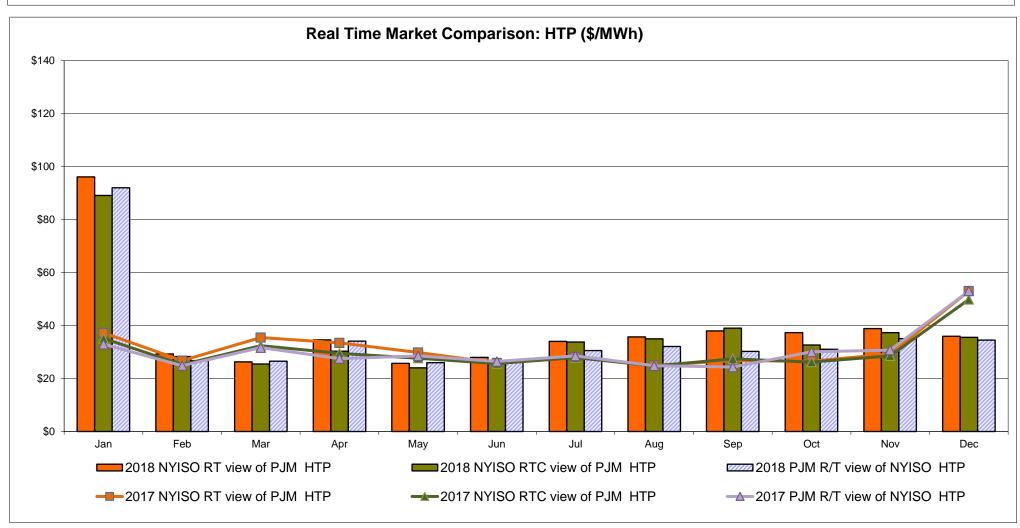
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)



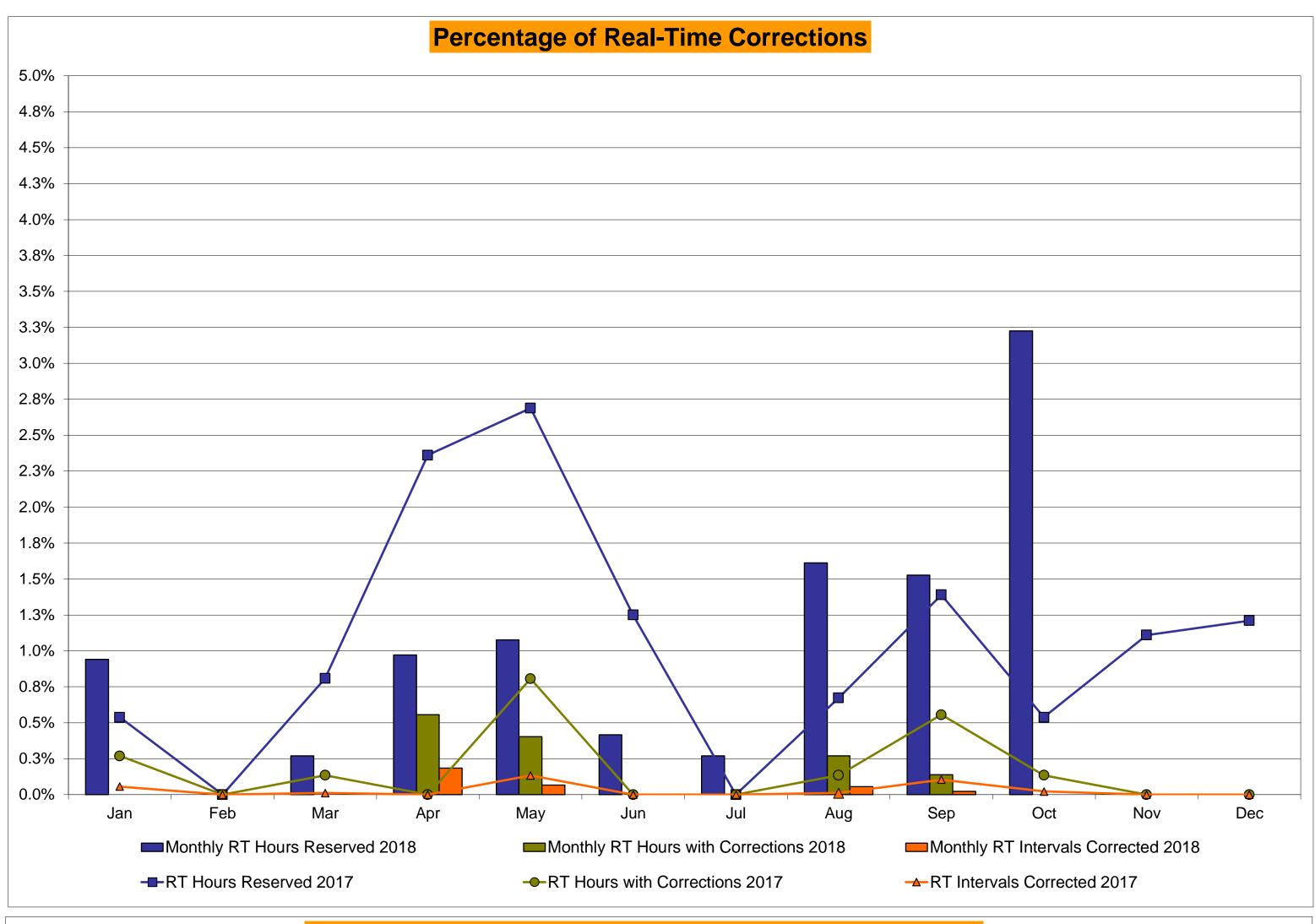


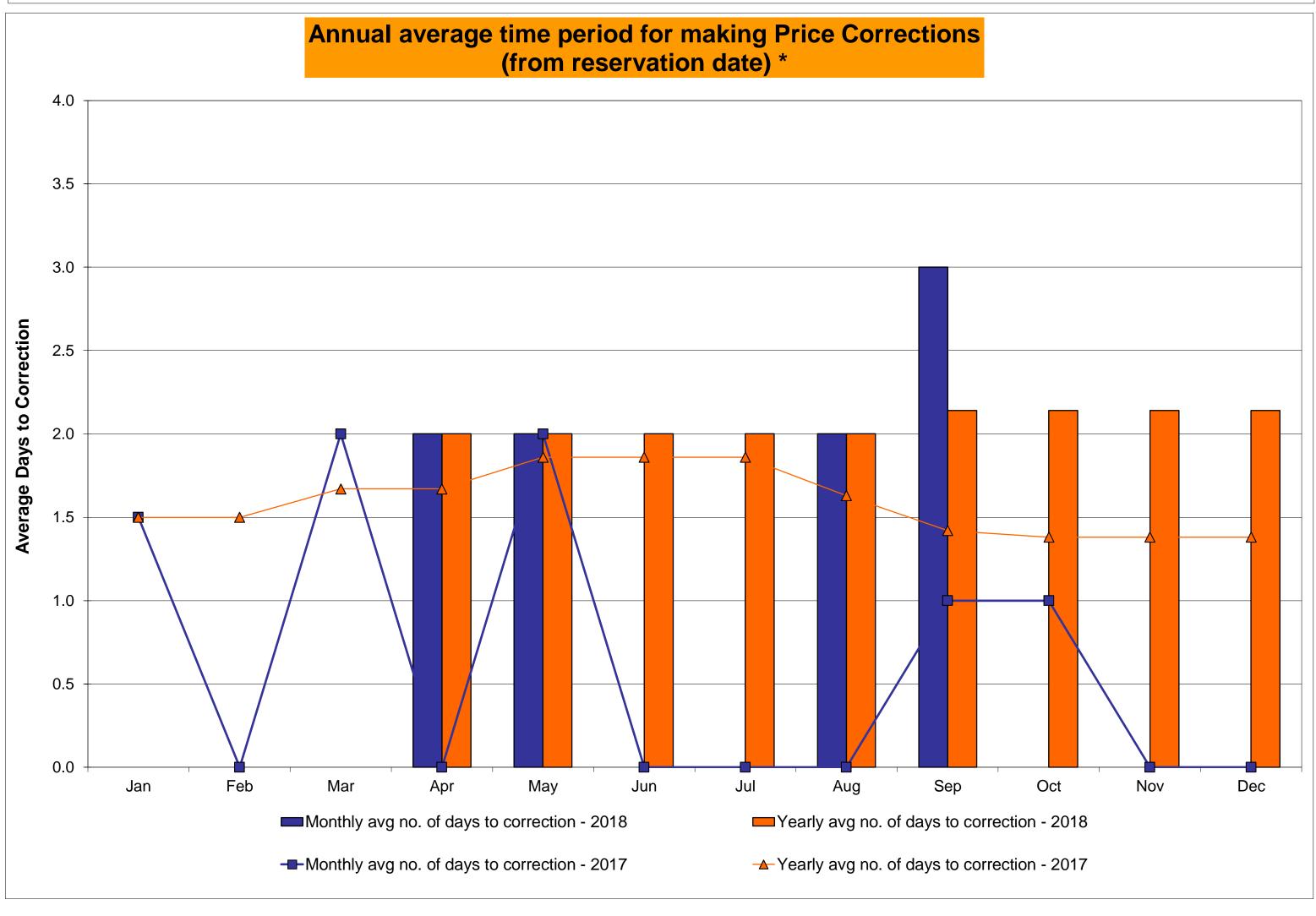
NYISO Real Time Price Correction Statistics

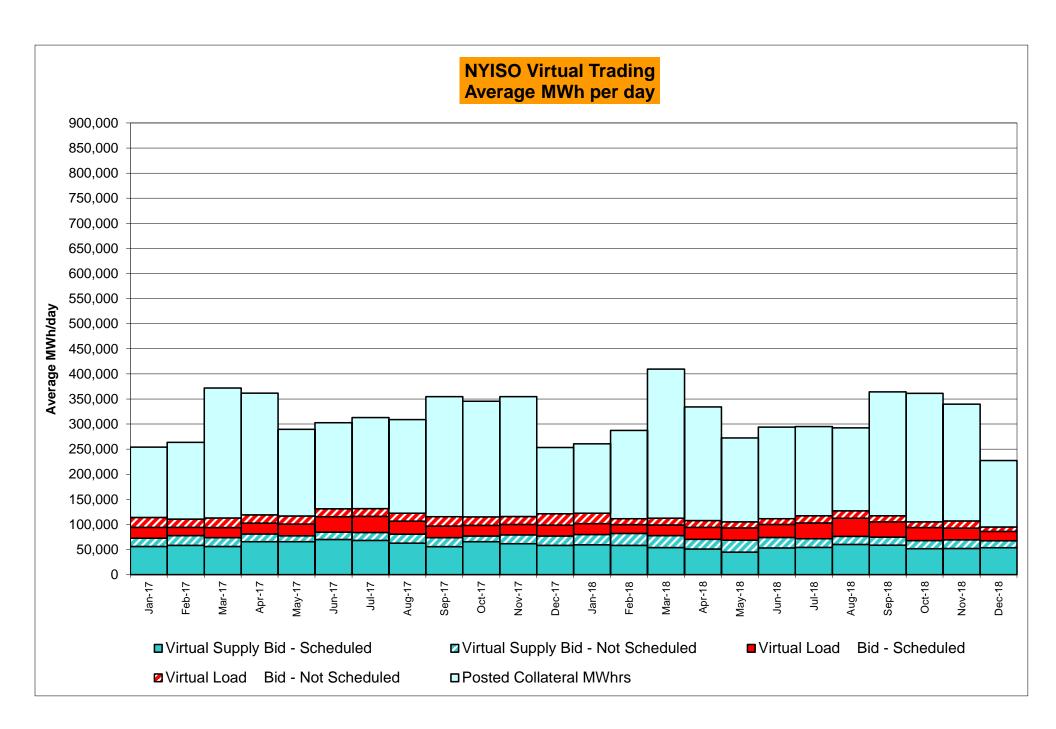
							COLLOCK						
2018 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	<u>December</u>
Number of hours with corrections	in the month	0	0	0	4	3	0	0	2	1	0	0	0
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours with corrections	in the month	0.00%	0.00%	0.00%	0.56%	0.40%	0.00%	0.00%	0.27%	0.14%	0.00%	0.00%	0.00%
% of hours with corrections	year-to-date	0.00%	0.00%	0.00%	0.14%	0.19%	0.16%	0.14%	0.15%	0.15%	0.14%	0.12%	0.11%
Interval Corrections	year-to-date	0.00%	0.00%	0.00%	0.14%	0.19%	0.10%	0.14%	0.13%	0.13%	0.14%	0.1276	0.1176
Number of intervals corrected	in the month	0	0	0	16	6	0	0	5	2	0	0	0
Number of intervals	in the month	9,021	0 8,112	0 9,002	8,717	9,033	8,723	0 9,021	9,071	2 8,723	0 8,990	0 8,763	0 8,993
% of intervals corrected	in the month	9,021	0.00%	0.00%	0.18%	9,033 0.07%	0.00%	0.00%	0.06%	0.02%	0.00%	0.00%	0.00%
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.03%	0.03%	0.03%
Hours Reserved		_	•		_	•		•	40	4.4	0.4		
Number of hours reserved	in the month	7	0	2	7	8	3	2	12	11	24	0	0
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	0.94%	0.00%	0.27%	0.97%	1.08%	0.42%	0.27%	1.61%	1.53%	3.23%	0.00%	0.00%
% of hours reserved	year-to-date	0.94%	0.49%	0.42%	0.56%	0.66%	0.62%	0.57%	0.70%	0.79%	1.04%	0.95%	0.87%
Days to Correction *													
Avg. number of days to correction	in the month	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	3.00	0.00	0.00	0.00
Avg. number of days to correction	year-to-date	0.00	0.00	0.00	2.00	2.00	2.00	2.00	2.00	2.14	2.14	2.14	2.14
Days Without Corrections													
Days without corrections	in the month	31	28	31	28	28	30	31	30	29	31	30	31
Days without corrections	year-to-date	31	59	90	118	146	176	207	237	266	297	327	358
<u>2017</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	<u>December</u>
2017 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
	in the month	<u>January</u> 2	February 0	March 1	<u>April</u> 0	<u>May</u> 6	<u>June</u> 0	<u>July</u> 0	August 1	September 4	October 1	November 0	<u>December</u> 0
Hour Corrections	in the month in the month			<u>March</u> 1 743	-	 -			August 1 744		October 1 744		December 0 744
Hour Corrections Number of hours with corrections		2	0	1	0	6	0	0	1	4	1	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	2 744 0.27%	0 672	1 743	0 720	6 744	0 720	0 744	1 744	4 720	1 744	0 721	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	 2 744	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720 0.56%	1 744 0.13%	0 721 0.00%	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	2 744 0.27% 0.27%	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720 0.56%	1 744 0.13%	0 721 0.00% 0.19%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	2 744 0.27%	0 672 0.00% 0.14%	1 743 0.13%	0 720 0.00% 0.10%	6 744 0.81% 0.25%	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13%	4 720 0.56% 0.21%	1 744 0.13% 0.21%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% 0.27%	0 672 0.00% 0.14%	1 743 0.13% 0.14%	0 720 0.00% 0.10%	6 744 0.81% 0.25%	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13% 0.17%	4 720 0.56% 0.21%	1 744 0.13% 0.21%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 5 8,983 0.06%	0 672 0.00% 0.14% 0 8,101 0.00%	1 743 0.13% 0.14% 1 9,026 0.01%	0 720 0.00% 0.10% 0 8,745 0.00%	6 744 0.81% 0.25% 12 9,004 0.13%	0 720 0.00% 0.21% 0 8,712 0.00%	0 744 0.00% 0.18% 0 8,968 0.00%	1 744 0.13% 0.17% 1 8,980 0.01%	9 8,701 0.10%	1 744 0.13% 0.21% 2 9,006 0.02%	0 721 0.00% 0.19% 0 8,712 0.00%	0 744 0.00% 0.17% 0 9,063 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 5 8,983	0 672 0.00% 0.14% 0 8,101	1 743 0.13% 0.14% 1 9,026	0 720 0.00% 0.10% 0 8,745	6 744 0.81% 0.25% 12 9,004	0 720 0.00% 0.21% 0 8,712	0 744 0.00% 0.18% 0 8,968	1 744 0.13% 0.17% 1 8,980	4 720 0.56% 0.21% 9 8,701	1 744 0.13% 0.21% 2 9,006	0 721 0.00% 0.19% 0 8,712	0 744 0.00% 0.17% 0 9,063
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	2 744 0.27% 0.27% 5 8,983 0.06%	0 672 0.00% 0.14% 0 8,101 0.00%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04%	0 720 0.00% 0.21% 0 8,712 0.00%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03%	9 8,701 0.10%	1 744 0.13% 0.21% 2 9,006 0.02%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% 0.17% 0 9,063 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00%	1 744 0.13% 0.17% 1 8,980 0.01%	9 8,701 0.04%	1 744 0.13% 0.21% 2 9,006 0.02%	0 721 0.00% 0.19% 0 8,712 0.00%	0 744 0.00% 0.17% 0 9,063 0.00%
Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Wors Reserved Number of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744	9 8,701 0.04% 10 720	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Wo of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved More to Correction % of hours reserved Days to Correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05%
Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Mumber of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved Number of hours % of hours reserved Number of days to correction Avg. number of days to correction Days Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54% 1.50 1.50	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% 0.00 1.50	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00 1.67	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00 1.67	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00 1.86	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00 1.86	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10% 0.00 1.86	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00 1.63	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00 1.38	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00 1.38	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00 1.38
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05%

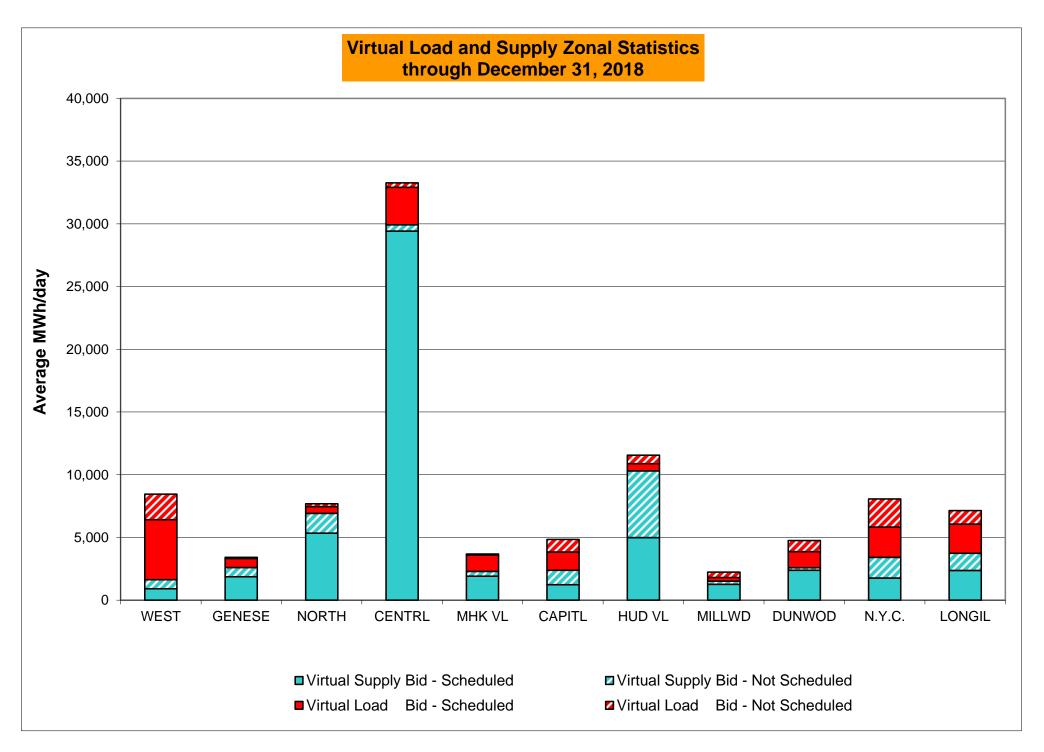
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^{*}Calendar days from reservation date; for June 2018 forward, business days from market date



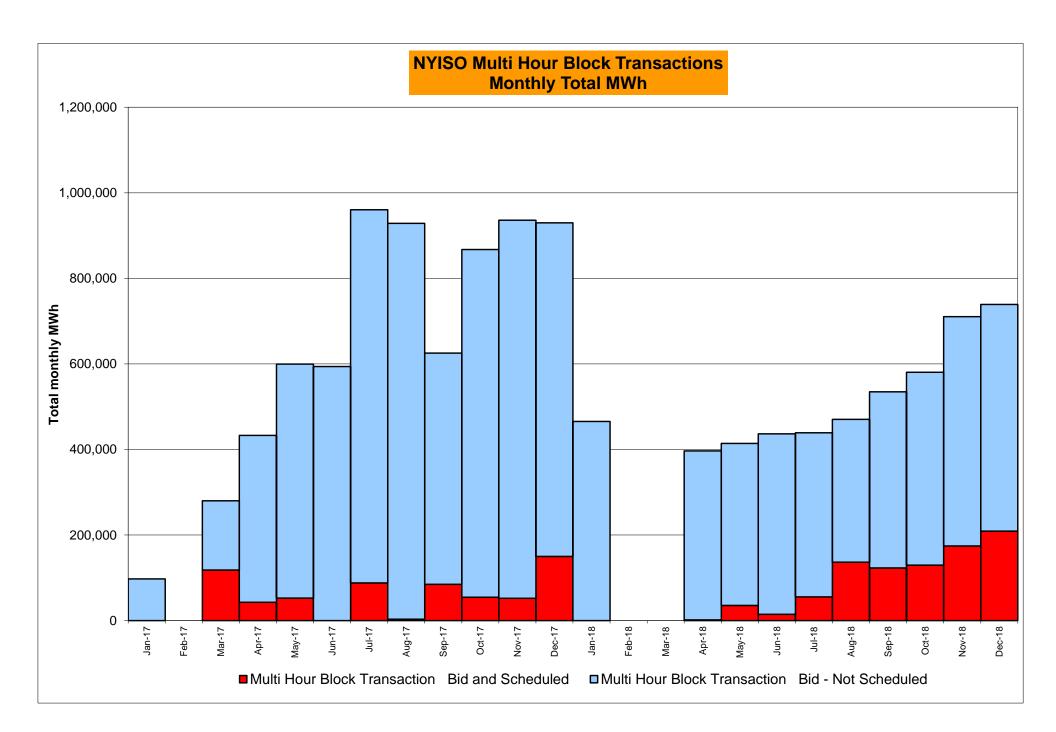


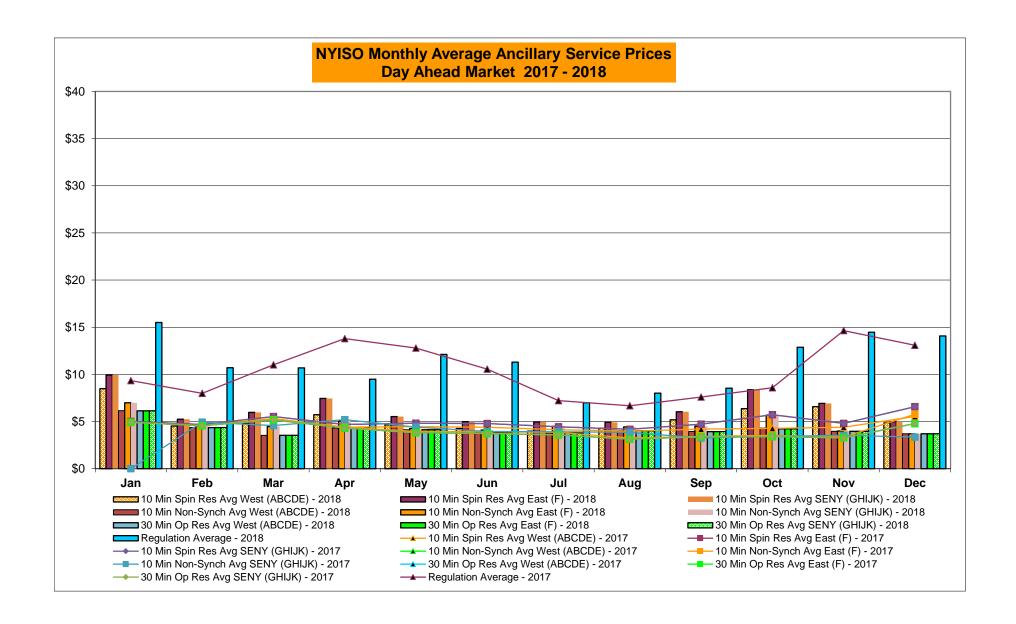


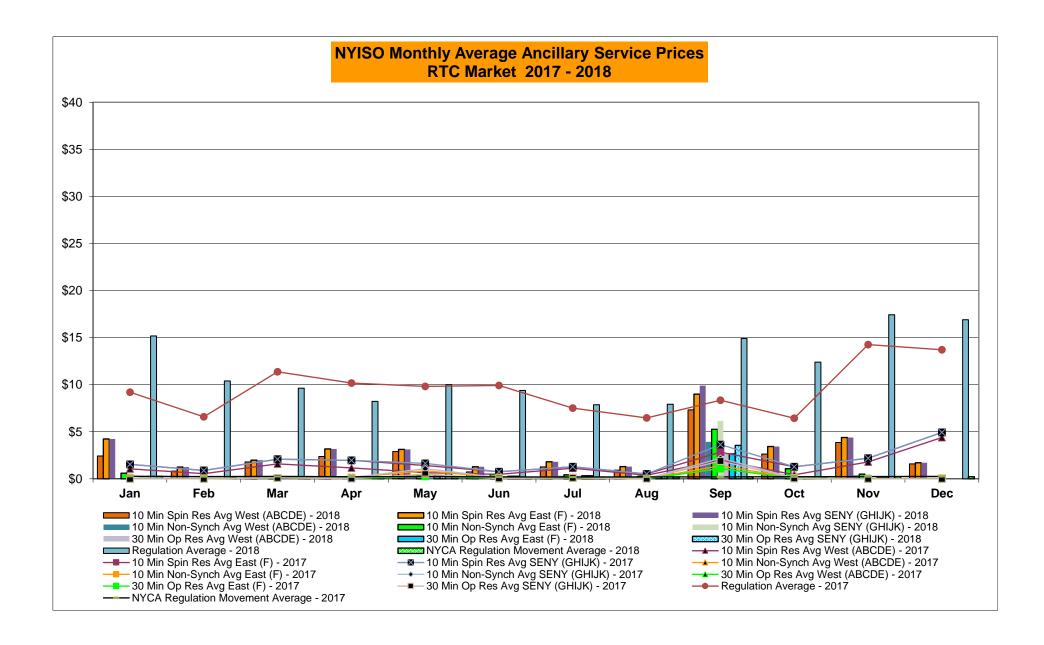


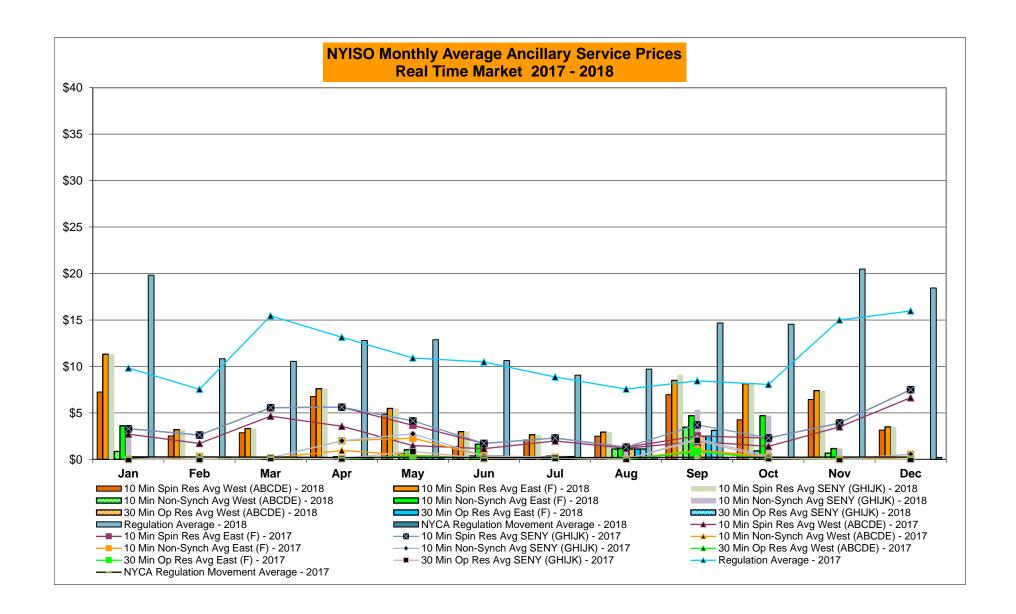
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018

		Virtual L	oad Bid	Virtual Su	upply Bid			Virtual L	oad Bid	Virtual Su	upply Bid			Virtual	Load Bid	Virtual S	upply Bid
			Not		Not				Not		Not				Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-18	4,761	4,241	1,938	427	MHK VL	Jan-18	763	456	2,040	266	DUNWOD	Jan-18	1,795	1,509	2,215	620
	Feb-18	3,058	1,941	1,478	603		Feb-18	512	130	1,910	269		Feb-18				
	Mar-18	7,263	2,535	860	659		Mar-18	569	139	1,896	309		Mar-18	1,367	755	3,530	487
	Apr-18	8,154	3,433	926	393		Apr-18	670	173	1,986	470		Apr-18	1,781	1,047	2,395	
	May-18	7,658	4,266	516	478		May-18	413	95	3,242			May-18				
	Jun-18	7,003	4,102	760	681		Jun-18	440	100	3,697	603		Jun-18				
	Jul-18	6,144	4,151	894	795		Jul-18	740	152	3,340	393		Jul-18				
	Aug-18	7,058	3,301	1,826	720		Aug-18	714	253	3,007	293		Aug-18				
	Sep-18	7,300	3,587	869	527	_	Sep-18	863	185	2,513	411		Sep-18				
	Oct-18	5,715	2,202	894	580	_	Oct-18	1,510	162	1,958	434		Oct-18				
	Nov-18	5,127	2,031	883	608	_	Nov-18	1,791	72	1,628	345		Nov-18	· ·	·		
	Dec-18	4,786	2,029	913	716		Dec-18	1,305	80	1,917	380		Dec-18	1,276	888	2,381	211
GENESE	Jan-18	554	310	3,772	2,739	CAPITL	Jan-18	2,291	1,751	1,887	2,212	N.Y.C.	Jan-18	· · · · · ·			
	Feb-18	525	172	1,723	2,671		Feb-18	1,822	269	1,331	2,799		Feb-18			1,181	
	Mar-18	537	143	1,381	2,488		Mar-18	1,731	156	1,330	2,851		Mar-18	· · · · · ·		1,727	
	Apr-18	587	234	1,818	1,047		Apr-18	1,743	263	2,032	1,826		Apr-18		-		
	May-18	405	123	2,353	649	_	May-18	911	95	1,430	1,303		May-18				
	Jun-18	389	100	2,222	563	_	Jun-18	812	112	1,818	1,336		Jun-18			2,210	
	Jul-18	476	123	2,913	1,062	_	Jul-18	869	219	2,818	1,381		Jul-18				
	Aug-18		269	2,994	1,264	_	Aug-18	1,361	242	3,509	1,578		Aug-18		· · · · · · · · · · · · · · · · · · ·	2,802	
	Sep-18	684	294	3,261	716	_	Sep-18	1,328	373	1,878	1,521		Sep-18		·	2,029	
	Oct-18	796	241	2,836	1,158	_	Oct-18	1,800	1,204	1,418	659		Oct-18				
	Nov-18 Dec-18	967 714	82 91	2,234	750	_	Nov-18	1,782	1,479 999	1,126 1,230	1,113		Nov-18 Dec-18	· · · · · ·			
	Dec-16	714	91	1,860	750		Dec-18	1,453	999	1,230	1,157		Dec-16	2,409	2,235	1,750	1,001
NORTH	Jan-18	274	282	8,259	3,265	HUD VL	Jan-18	1,562	1,285	5,029	7,218	LONGIL	Jan-18	3,335	3,714	1,932	
	Feb-18	352	369	7,449	2,777		Feb-18	888	740	4,703	8,761		Feb-18	,	-	3,061	
	Mar-18	249	367	6,995	2,136		Mar-18	845	1,098	5,169	10,837		Mar-18			3,308	
	Apr-18	189	269	7,479	1,848		Apr-18	639	973	5,990	9,863		Apr-18			2,505	
	May-18	215	79	6,001	4,717	_	May-18			3,727			May-18				
	Jun-18		317	5,178	3,657	_	Jun-18	·	573	•			Jun-18	· ·	· · · · · · · · · · · · · · · · · · ·		
	Jul-18	428	423	5,684	2,542	_	Jul-18	2,796	550	3,087	5,200		Jul-18		-		· ·
	Aug-18	578	340	5,639	2,650	_	Aug-18		476	7,039	4,344		Aug-18				
	Sep-18 Oct-18	815 578	247 237	6,331 5,077	4,123 3,287	_	Sep-18 Oct-18		576 429	6,306 6,205	4,253 5,009		Sep-18 Oct-18				· ·
	Nov-18	535	204	5,077	1,611	_	Nov-18		913				Nov-18				
	Dec-18	550	227	5,344	1,570		Dec-18		674	4,984	5,327		Dec-18		· · · · · · · · · · · · · · · · · · ·		
CENTRL	lon 10	002	424	20.075	647	MILLWD	lon 10	000	000	2.022	757	NYISO	lon 10	24 542	20.054	E0 427	20.470
CENTRL	Jan-18 Feb-18	983 595	434 215	28,975 28,161	647 483	IVIILLVVD	Jan-18 Feb-18	923 486	988 337	2,033 1,284	757 1,197	NTIOU	Jan-18 Feb-18	· ·		59,437 58,172	
	Mar-18	1,977	208	26,643	614	_	Mar-18	720	141	1,144	421		Mar-18	-			
	Apr-18	1,977	334	20,043	677		Apr-18		526	1,144	163		Apr-18	- '			
	May-18	1,033	221	21,769	470	\dashv	May-18		140	1,051	188		May-18				
	Jun-18	730	164	28,504	501		Jun-18		302	1,223			Jun-18				
	Jul-18	1,093	273	27,687	534		Jul-18		1,051	940			Jul-18				
	Aug-18	1,911	408	26,279	566		Aug-18		1,580	916			Aug-18				
	Sep-18	2,648	356		671		Sep-18		813		403		Sep-18		-		
	Oct-18	1,682	358	26,189	642		Oct-18		832	1,115			Oct-18				·
	Nov-18	2,567	332	26,956	488		Nov-18		786	1,241	133		Nov-18	-		52,134	
	Dec-18	3,003	346		490	7	Dec-18						Dec-18				





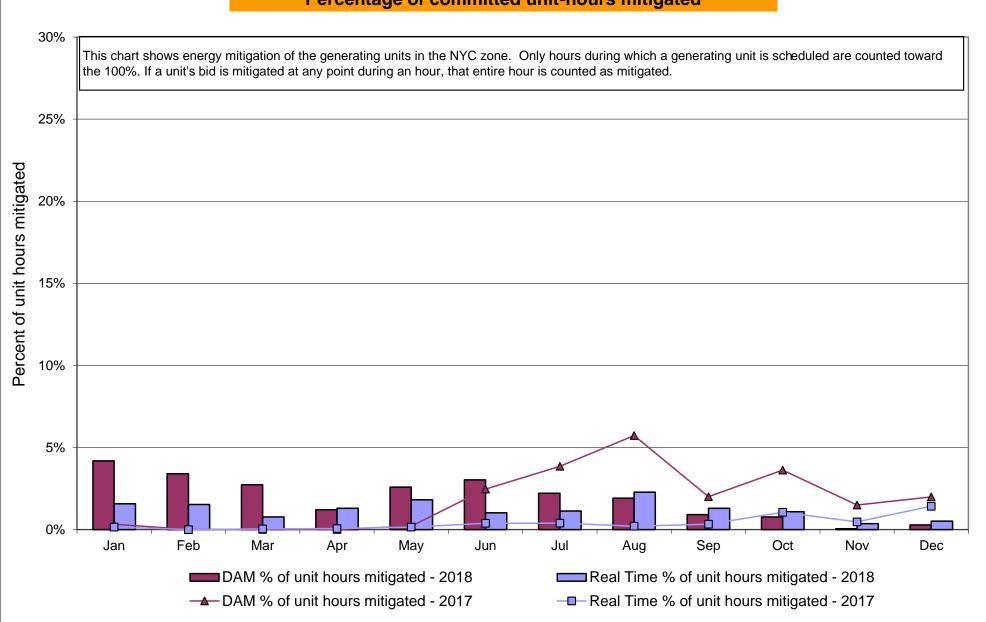


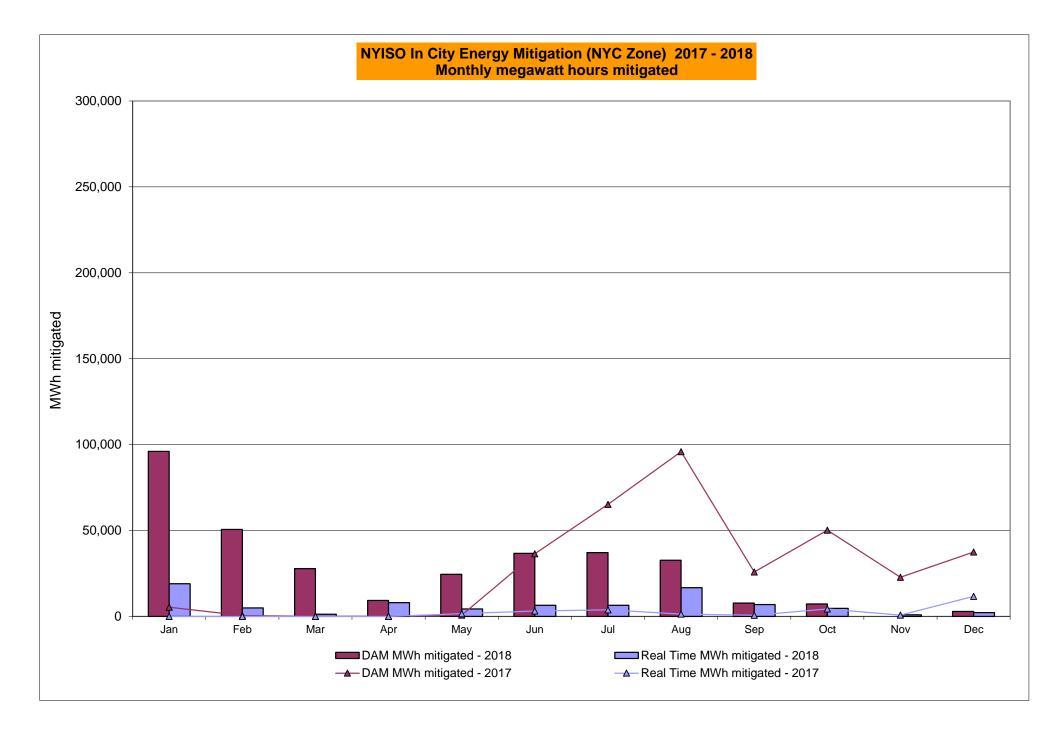


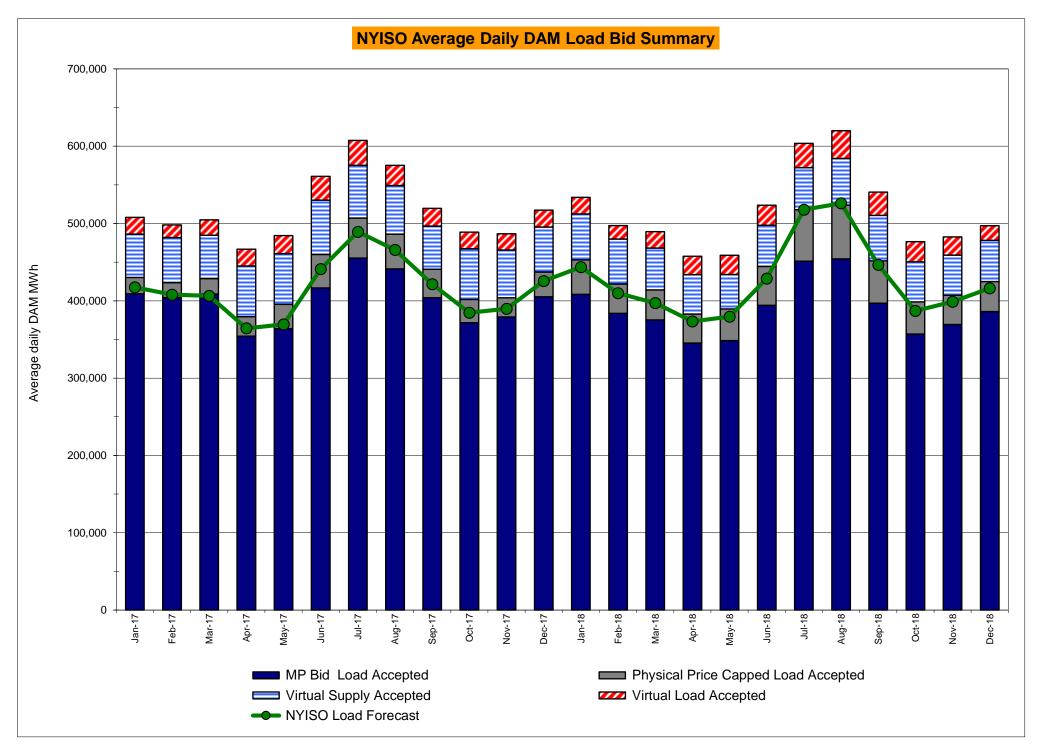
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

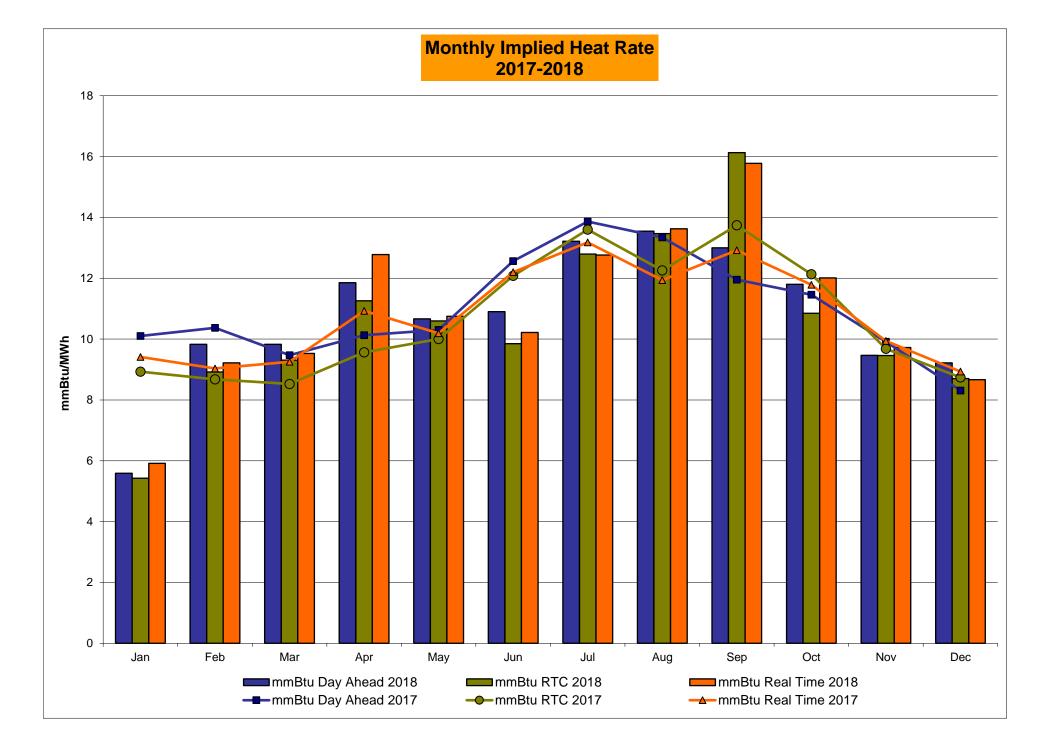
	NYISO W	<u>iarkets A</u>	ncillary 8	<u>services</u>	Statistic	<u>s - Unwe</u>	<u>ignted F</u>	<u>'rice (\$/</u>	<u>IVI VV H)</u>			
2018	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
Day Ahead Market	<u> </u>	<u>r obradry</u>	11101011	<u> </u>	<u>iviay</u>	<u> </u>	<u> </u>	<u>/ tagaot</u>	Coptomicor	<u> </u>	11010111001	<u> </u>
10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52	4.98	4.95	4.91	6.04	8.37	6.93	4.99
10 Min Spin East (F)	9.93	5.24	5.97	7.45	5.52	4.98	4.95	4.91	6.04	8.37	6.93	4.99
10 Min Spin West (ABCDE)	8.49	4.53	4.78	5.73	4.65	4.26	3.98	4.30	5.18	6.36	6.57	4.86
10 Min Non Synch SENY (GHIJK)	6.99	4.54	4.48	5.05	4.26	4.09	4.49	4.43	4.51	5.69	4.00	3.71
10 Min Non Synch East (F)	6.99	4.54	4.48	5.05	4.26	4.09	4.49	4.43	4.51	5.69	4.00	3.71
10 Min Non Synch West (ABCDE)	6.15	4.36	3.54	4.31	4.13	3.85	3.80	4.03	3.95	4.31	3.97	3.70
30 Min SENY (GHIJK)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
30 Min East (F)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
30 Min West (ABCDE)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
Regulation	15.51	10.70	10.68	9.49	12.11	11.30	6.99	8.00	8.54	12.88	14.47	14.07
RTC Market												
10 Min Spin SENY (GHIJK)	4.23	1.24	1.98	3.17	3.13	1.28	1.81	1.29	9.90	3.43	4.39	1.71
10 Min Spin East (F)	4.23	1.24	1.98	3.17	3.13	1.28	1.81	1.29	9.00	3.43	4.39	1.71
10 Min Spin West (ABCDE)	2.43	0.82	1.79	2.38	2.91	0.74	1.27	0.93	7.33	2.63	3.85	1.58
10 Min Non Synch SENY (GHIJK)	0.59	0.03	0.01	0.22	0.42	0.49	0.42	0.27	6.14	1.07	0.50	0.00
10 Min Non Synch East (F)	0.59	0.03	0.01	0.22	0.42	0.49	0.42	0.27	5.25	1.07	0.50	0.00
10 Min Non Synch West (ABCDE)	0.08	0.02	0.00	0.00	0.33	0.27	0.33	0.25	3.92	0.38	0.38	0.00
30 Min SENY (GHIJK)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	3.55	0.11	0.09	0.00
30 Min East (F)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	2.65	0.11	0.09	0.00
30 Min West (ABCDE)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	2.65	0.11	0.09	0.00
Regulation	15.17	10.40	9.63	8.22	10.01	9.39	7.87	7.92	14.90	12.40	17.43	16.90
NYCA Regulation Movement	0.26	0.21	0.20	0.22	0.19	0.16	0.19	0.19	0.20	0.21	0.22	0.22
Real Time Market												
10 Min Spin SENY (GHIJK)	11.31	3.19	3.31	7.62	5.48	2.98	2.65	2.93	9.13	8.14	7.39	3.49
10 Min Spin East (F)	11.31	3.19	3.31	7.62	5.48	2.98	2.65	2.93	8.50	8.14	7.39	3.49
10 Min Spin West (ABCDE)	7.24	2.52	2.86	6.77	4.86	1.37	2.10	2.50	6.96	4.26	6.45	3.15
10 Min Non Synch SENY (GHIJK)	3.61	0.01	0.19	0.28	1.03	1.63	0.35	1.16	5.33	4.70	1.16	0.00
10 Min Non Synch East (F)	3.61	0.01	0.19	0.28	1.03	1.63	0.35	1.16	4.70	4.70	1.16	0.00
10 Min Non Synch West (ABCDE)	0.85	0.00	0.00	0.00	0.57	0.37	0.29	1.12	3.47	0.92	0.67	0.00
30 Min SENY (GHIJK)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	3.11	0.06	0.10	0.00
30 Min East (F)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	2.48	0.06	0.10	0.00
30 Min West (ABCDE)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	2.48	0.06	0.10	0.00
Regulation	19.82	10.82	10.54	12.80	12.88	10.62	9.06	9.71	14.67	14.54	20.48	18.44
NYCA Regulation Movement	0.24	0.21	0.20	0.21	0.17	0.15	0.18	0.18	0.20	0.21	0.22	0.21
1410/11cgalation wovernont	0.24	0.21	0.20	0.21	0.17	0.10	0.10	0.10	0.20	0.21	0.22	0.21
•												
<u>2017</u>	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
2017 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>	<u>September</u>	<u>October</u>	November	<u>December</u>
2017 Day Ahead Market 10 Min Spin SENY (GHIJK)	<u>January</u> 5.01	February 5.38	<u>March</u> 5.04	<u>April</u> 6.31	<u>May</u> 4.93	<u>June</u> 4.62	<u>July</u> 6.41	<u>August</u> 7.12	September 5.57	October 5.37	November 4.83	December 4.89
2017 Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	<u>January</u> 5.01 5.01	February 5.38 5.38	<u>March</u> 5.04 5.04	<u>April</u> 6.31 6.31	<u>May</u> 4.93 4.93	<u>June</u> 4.62 4.62	<u>July</u> 6.41 6.41	August 7.12 7.12	<u>September</u> 5.57 5.57	October 5.37 5.37	<u>November</u> 4.83 4.83	<u>December</u> 4.89 4.89
2017 Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	<u>January</u> 5.01 5.01 4.94	February 5.38 5.38 5.25	<u>March</u> 5.04 5.04 4.84	<u>April</u> 6.31 6.31 5.60	May 4.93 4.93 4.77	June 4.62 4.62 4.52	<u>July</u> 6.41 6.41 5.78	August 7.12 7.12 6.20	<u>September</u> 5.57 5.57 5.14	October 5.37 5.37 4.89	November 4.83 4.83 4.50	<u>December</u> 4.89 4.89 4.73
2017 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> 5.01 5.01 4.94 4.94	5.38 5.38 5.25 5.25	March 5.04 5.04 4.84 4.88	<u>April</u> 6.31 6.31 5.60 5.80	May 4.93 4.93 4.77 4.83	June 4.62 4.62 4.52 4.36	July 6.41 6.41 5.78 6.34	7.12 7.12 6.20 7.07	<u>September</u> 5.57 5.57 5.14 5.52	<u>October</u> 5.37 5.37 4.89 5.09	4.83 4.83 4.50 4.43	<u>December</u> 4.89 4.89 4.73 4.49
2017 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 5.01 5.01 4.94 4.94 4.94	5.38 5.38 5.25 5.25 5.25	5.04 5.04 4.84 4.88 4.88	April 6.31 6.31 5.60 5.80 5.80	May 4.93 4.93 4.77 4.83 4.83	June 4.62 4.62 4.52 4.36 4.36	July 6.41 6.41 5.78 6.34 6.34	7.12 7.12 7.12 6.20 7.07 7.07	<u>September</u> 5.57 5.57 5.14 5.52 5.52	<u>October</u> 5.37 5.37 4.89 5.09 5.09	4.83 4.83 4.50 4.43 4.43	4.89 4.89 4.73 4.49 4.49
2017 Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	5.01 5.01 4.94 4.94 4.94 4.94	5.38 5.38 5.25 5.25 5.25 5.25 5.20	5.04 5.04 4.84 4.88 4.88 4.84	April 6.31 6.31 5.60 5.80 5.80 5.58	May 4.93 4.93 4.77 4.83 4.83 4.68	June 4.62 4.62 4.52 4.36 4.36 4.32	July 6.41 6.41 5.78 6.34 6.34 5.72	7.12 7.12 6.20 7.07 7.07 6.15	5.57 5.57 5.14 5.52 5.52 5.10	5.37 5.37 4.89 5.09 5.09 4.82	4.83 4.83 4.50 4.43 4.43 4.39	4.89 4.89 4.73 4.49 4.49 4.43
2017 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)	January 5.01 5.01 4.94 4.94 4.94 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	April 6.31 6.31 5.60 5.80 5.58 5.58	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43
2017 Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	5.01 5.01 5.01 4.94 4.94 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43
2017 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 SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43
2017 Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	5.01 5.01 5.01 4.94 4.94 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43
2017 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 SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.39 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80
2017 Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.3 13.80
2017 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)	January 5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 7.26 6.88	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 0.99	November 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.84 4.84 4.84 4.84 8.05	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 2.79 2.77 1.72	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 7.26 6.88 4.80	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	December 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80
2017 Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.59 0.26 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80
2017 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)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.59 0.26 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08	November 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.380 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min 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)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.30 0.21 0.21 0.16 0.15 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.99 0.09 0.09 0.08 0.08 0.0	November 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min 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)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) Regulation NYCA Regulation Movement	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 6.86	November 4.83 4.83 4.50 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.80 1.92 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.70
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 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) Regulation NYCA Regulation Movement Real Time Market	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 0.27	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.80 1.92 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 1.92
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 0.27	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 1.43	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08	November 4.83 4.83 4.50 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00 7.00 0.24	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.80 1.92 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 1.70 0.26
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02 0.02 0.02 1.43 1.43 1.40	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	November 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.92 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.92 1.14 0.00 0.00 0.00 0.00 0.26
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 1.43 1.40 1.00	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.08 0.08 0.08 0.08 0.08 0.08 1.96 1.96 1.16	November 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.92 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 1.82 3.18 3.18 2.33
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26 1.96 1.16 0.18	4.83 4.83 4.50 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 7.00 0.24	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.92
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 1.43 1.40 1.00 0.15 0.11	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	November 4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.92
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 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 West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.06 0.03	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08	November 4.83 4.83 4.50 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00 0.24 2.69 2.29 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.92 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 1.82 1.92
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 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 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 Non Synch West (ABCDE) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.06 0.03 0.03	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.0	November 4.83 4.83 4.50 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00 0.24	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.92 1.92 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 1.8 3.18 3.18 3.18 2.33 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min 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 East (F) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	April 6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.06 0.03 0.03 0.03	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.0	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.92
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 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 SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	April 6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 7.07 0.25 4.34 4.34 2.23 1.20 1.20 0.26 0.25 0.25 0.25	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.06 0.03 0.03 0.03 0.03	June 4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	July 6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 3.12	5.57 5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.59 0.59 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.0	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	December 4.89 4.89 4.73 4.49 4.43 4.43 4.43 1.92

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

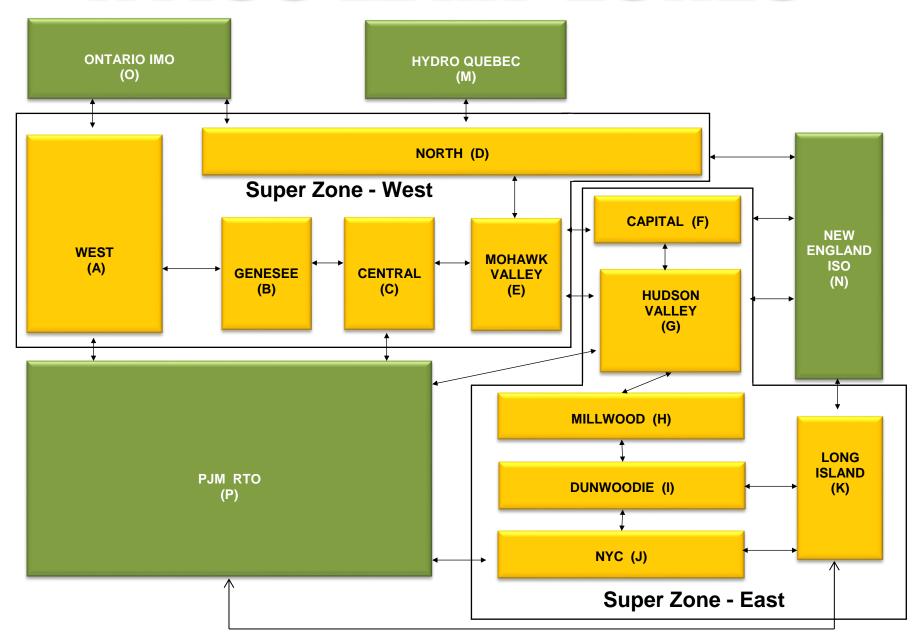








NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 1/9/2019 9:38 AM

Billing Codes for Chart C

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

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The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefits to consumers by:

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



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

Upcoming Compliance Filings

Filing Due Date	Upcoming Compliance Filings (Description)	Docket Number
	None	

Recently Issued Orders

Filing	Filing Summary	Docket	Order	Order
Date	(Order Issued)	Number	Date	Summary
				Order accepted compliance filing, as amended,
				subject to submission of a compliance filing
	NYISO Order No. 844 compliance filing re: uplift cost			specifying the effective date of the tariff revisions
	reporting requirements			related to the Operator-Initiated Commitment Report
	NYISO Order 844 amended compliance filing re:			at least two weeks in advance of the intended
09/07/2018	reporting of uplift paid to Suppliers at external proxy	ER18-2400-000		effective date; revisions related to Zonal Uplift
11/15/2018	generator buses	ER18-2400-001	01/04/2019	Report to be effective 03/15/2019

Recently Submitted Filings

Filing	Filing Summary	Docket
Date		Number
01/08/2019	NYISO motion to intervene and comment re: NYSRC filing of a 17.0% IRM for the 2019-2020 Capability Year	ER19-659-000
01/15/2019	NYISO informational compliance filing re: annual Demand Side Management programs report	ER01-3001-000
01/17/2019	NYISO filing to the PSC re: report of funds received from the credit facilities authorized in Case 15-E-0655 for the period 01/01/2018 - 12/31/2018	PSC Case No. 15-E-0655
01/17/2019	NYISO answer to NY Transco comments re: NYISO's 12/11/2018 filing of tariff revisions regarding the Public Policy Transmission Planning Process	ER19-528-000