Market Operations Report

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SENIOR VICE PRESIDENT - MARKET STRUCTURES, NYISO

Business Issues Committee Meeting

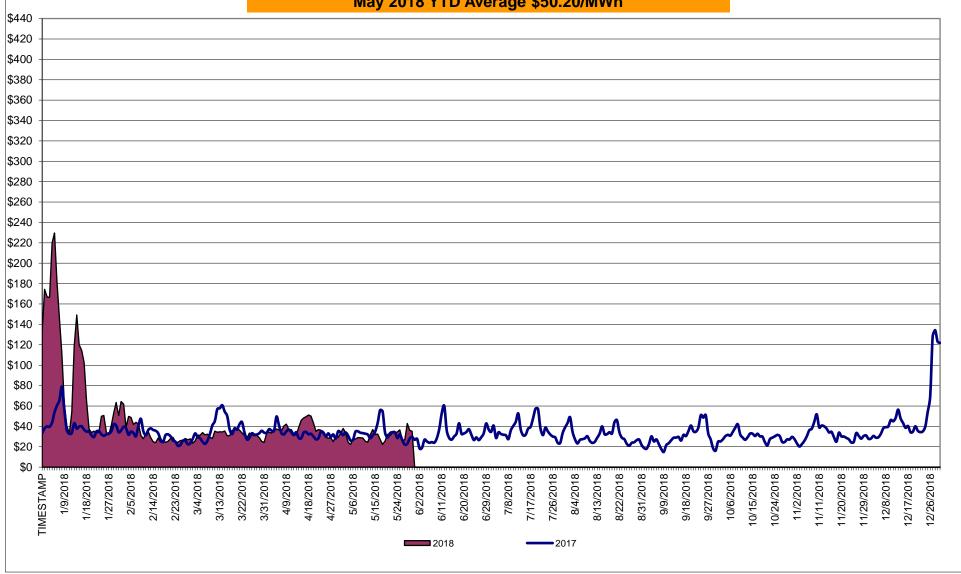
June 20, 2018, Rensselear, NY



Market Performance Highlights May 2018

- LBMP for May is \$28.78/MWh; lower than \$35.00/MWh in April 2018 and \$31.74/MWh in May 2017.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to April.
- May 2018 average year-to-date monthly cost of \$50.20/MWh is a 37% increase from \$36.54/MWh in May 2017.
- Average daily sendout is 397 GWh/day in May; higher than 390 GWh/day in April 2018 and higher than 383 GWh/day in May 2017.
- Natural gas prices were lower and distillate prices were higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$2.55/MMBtu, down from \$2.79/MMBtu in April.
 - Natural gas prices are down 8.8% year-over-year.
 - Jet Kerosene Gulf Coast was \$15.96/MMBtu, up from \$14.94/MMBtu in April.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$15.92/MMBtu, up from \$14.85/MMBtu in April.
 - Distillate prices are up 49.7% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is \$0.05/MWh; higher than (\$0.45)/MWh in April.
 - Local Reliability Share is \$0.22/MWh, higher than \$0.12/MWh in April.
 - Statewide Share is (\$0.17)/MWh, higher than (\$0.57)/MWh in April.
 - TSA \$ per NYC MWh is \$0.08/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than April.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)* 2017 Annual Average \$36.56/MWh May 2017 YTD Average \$36.71/MWh May 2018 YTD Average \$50.20/MWh

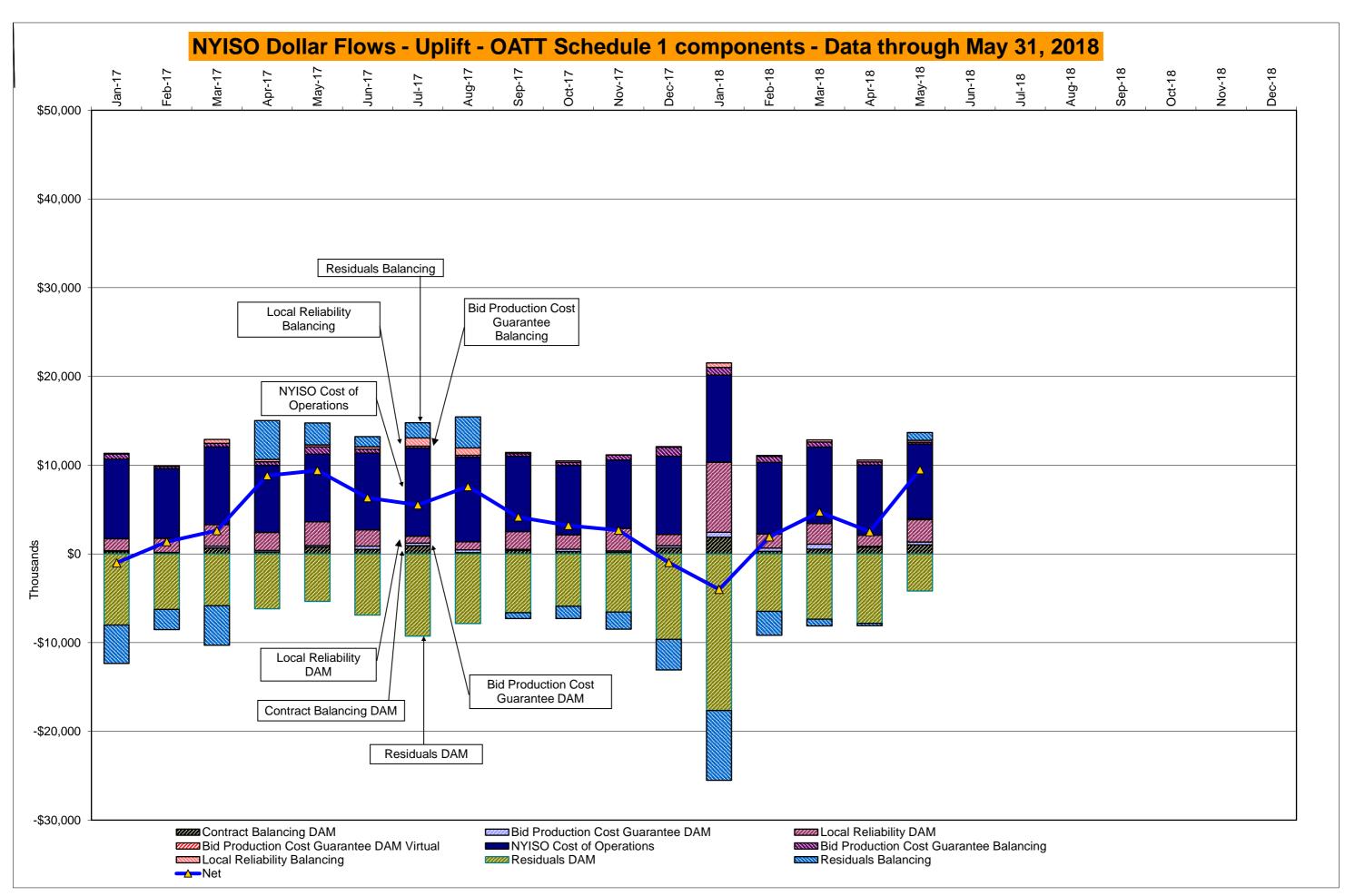


^{*} Excludes ICAP payments.

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>	August	September	<u>October</u>	November	<u>December</u>
LBMP	99.55	33.83	29.91	35.00	28.78							
NTAC	0.71	0.58	0.88	1.09	0.88							
Reserve	0.92	0.65	0.64	0.81	0.68							
Regulation	0.15	0.15	0.16	0.12	0.14							
NYISO Cost of Operations	0.65	0.65	0.66	0.65	0.66							
FERC Fee Recovery	0.08	0.10	0.09	0.10	0.09							
Uplift	(0.92)	(0.50)	(0.31)	(0.45)	0.05							
Uplift: Local Reliability Share	0.59	0.14	0.19	0.12	0.22							
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)	(0.57)	(0.17)							
Voltage Support and Black Start	0.40	0.41	0.42	0.41	0.42							
Avg Monthly Cost	101.54	35.87	32.45	37.74	31.70							
A VTD O	404.54	70.05	00.00	54.00	50.00							
Avg YTD Cost	101.54	72.85	60.06	54.82	50.20							
TSA \$ per NYC MWh	0.00	0.00	0.04	0.00	0.08							
2017	<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
LBMP	40.07	30.95	34.97	31.06	31.74	31.76	35.84	30.57	29.57	28.35	30.60	52.63
NTAC	0.66	1.11	0.86	1.05	0.79	0.62	0.87	0.59	0.62	0.50	0.75	0.81
Reserve	0.70	0.67	0.74	0.70	0.61	0.55	0.48	0.44	0.47	0.59	0.55	0.71
Regulation	0.14	0.12	0.13	0.17	0.16	0.13	0.10	0.10	0.11	0.13	0.20	0.15
NYISO Cost of Operations	0.65	0.65	0.65	0.65	0.62	0.63	0.63	0.63	0.63	0.62	0.61	0.60
FERC Fee Recovery	0.09	0.10	0.10	0.12	0.10	0.09	0.07	0.08	0.09	0.10	0.10	0.08
Uplift	(0.73)	(0.54)	(0.46)	0.12	0.10	(0.37)	(0.43)	(0.19)	(0.34)	(0.36)	(0.40)	(0.68)
Uplift: Local Reliability Share	0.10	0.13	0.21	0.20	0.24	0.15	0.11	0.12	0.16	0.14	0.20	0.09
Uplift: Statewide Share	(0.83)	(0.67)	(0.67)	(0.08)	(0.13)	(0.52)	(0.54)	(0.31)	(0.50)	(0.50)	(0.60)	(0.78)
Voltage Support and Black Start	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37
Avg Monthly Cost	41.96	33.44	37.38	34.26	34.52	33.80	37.94	32.60	31.54	30.31	32.79	54.67
-												
Avg YTD Cost	41.96	38.02	37.81	37.05	36.54	36.01	36.35	35.80	35.34	34.89	34.72	36.56
TSA \$ per NYC MWh	0.00	0.00	0.00	0.08	0.12	0.56	0.42	0.23	0.00	0.00	0.00	0.00

^{*} Excludes ICAP payments. Market Mitigation and Analysis Prepared: 6/7/2018 11:55 AM



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

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

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

NYISO Markets Transactions

<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
Day Ahead Market MWh	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073				· · · · · · · · · · · · · · · · · · ·			
DAM LSE Internal LBMP Energy Sales	59%	57%	58%	60%	61%							
DAM External TC LBMP Energy Sales	4%	3%	2%	2%	2%							
DAM Bilateral - Internal Bilaterals	29%	31%	32%	30%	29%							
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	5%	5%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%							
DAM Bilateral - Wheel Through Bilaterals	1%	2%	2%	2%	2%							
Balancing Energy Market MWh	-149,619	-299,377	-386,811	-72,862	-29,539							
Balancing Energy LSE Internal LBMP Energy Sales	-147%	-101%	-128%	-208%	-458%							
Balancing Energy External TC LBMP Energy Sales	74%	24%	37%	189%	564%							
Balancing Energy Bilateral - Internal Bilaterals	9%	5%	0%	-11%	29%							
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%	9%	6%	34%	51%							
Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-36%	-15%	-103%	-287%							
Transactions Summary												
LBMP	63%	59%	59%	62%	63%							
Internal Bilaterals	30%	32%	33%	30%	29%							
Import Bilaterals	5%	5%	6%	5%	5%							
Export Bilaterals	2%	2%	2%	2%	2%							
Wheels Through	1%	1%	1%	1%	1%							
Market Share of Total Load												
Day Ahead Market	101.0%	102.4%	102.9%	100.6%	100.2%							
Balancing Energy +	-1.0%	-2.4%	-2.9%	-0.6%	-0.2%							
Total MWH	15,004,132	12,344,477	13,134,575	12,085,824	12,691,534							
Average Daily Energy Sendout/Month GWh	463	426	413	390	397							
2017	lanuary	February	March	April	May	luna	lukz	Δυσμετ	Sentember	October	November	December
2017	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market MWh	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695	13,252,368	13,042,826	14,829,403
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	14,135,019 57%	12,565,206 57%	13,983,865 55%	12,061,475 54%	12,966,981 58%	14,406,180 60%	16,505,801 62%	15,948,927 61%	14,100,695 57%	13,252,368 55%	13,042,826 53%	14,829,403 55%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	14,135,019 57% 2%	12,565,206 57% 2%	13,983,865 55% 1%	12,061,475 54% 1%	12,966,981 58% 1%	14,406,180 60% 1%	16,505,801 62% 1%	15,948,927 61% 1%	14,100,695 57% 1%	13,252,368 55% 2%	13,042,826 53% 3%	14,829,403 55% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	14,135,019 57% 2% 32%	12,565,206 57% 2% 32%	13,983,865 55% 1% 34%	12,061,475 54% 1% 35%	12,966,981 58% 1% 33%	14,406,180 60% 1% 31%	16,505,801 62% 1% 29%	15,948,927 61% 1% 29%	14,100,695 57% 1% 32%	13,252,368 55% 2% 34%	13,042,826 53% 3% 34%	14,829,403 55% 5% 32%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5%	12,565,206 57% 2% 32% 5%	13,983,865 55% 1% 34% 5%	12,061,475 54% 1% 35% 6%	12,966,981 58% 1% 33% 4%	14,406,180 60% 1% 31% 5%	16,505,801 62% 1% 29% 4%	15,948,927 61% 1% 29% 5%	14,100,695 57% 1% 32% 5%	13,252,368 55% 2% 34% 5%	13,042,826 53% 3% 34% 5%	14,829,403 55% 5% 32% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2%	12,565,206 57% 2% 32% 5% 2%	13,983,865 55% 1% 34% 5% 2%	12,061,475 54% 1% 35% 6% 2%	12,966,981 58% 1% 33% 4% 2%	14,406,180 60% 1% 31% 5% 2%	16,505,801 62% 1% 29% 4% 1%	15,948,927 61% 1% 29% 5% 2%	14,100,695 57% 1% 32% 5% 2%	13,252,368 55% 2% 34% 5% 2%	13,042,826 53% 3% 34% 5% 2%	14,829,403 55% 5% 32% 5% 2%
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Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34%
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⁺ 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.

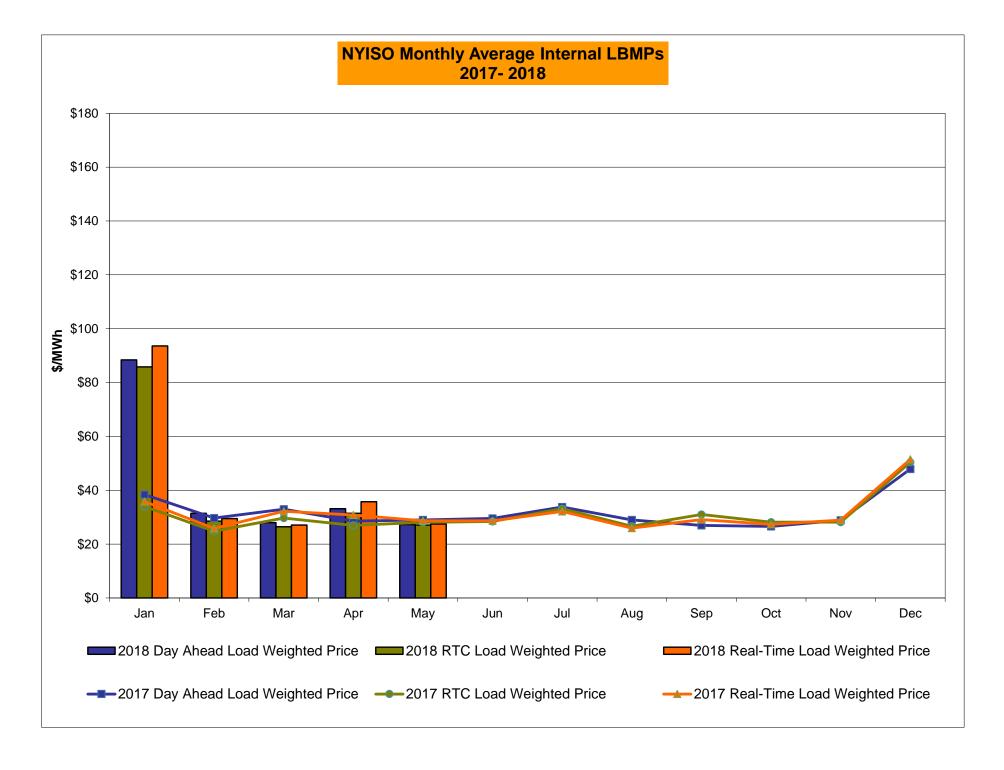
NYISO Markets 2018 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August September	October November December
DAY AHEAD LBMP									
Price *	\$83.53	\$30.37	\$27.37	\$32.40	\$25.97				
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22				
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26				
RTC LBMP									
Price *	\$81.65	\$27.73	\$25.99	\$30.80	\$25.40				
Standard Deviation	\$60.83	\$11.96	\$8.99	\$14.30	\$20.37				
Load Weighted Price **	\$85.85	\$28.54	\$26.46	\$31.47	\$27.08				
REAL TIME LBMP									
Price *	\$87.94	\$28.50	\$26.49	\$34.53	\$25.57				
Standard Deviation	\$87.41	\$17.36	\$12.25	\$26.57	\$23.49				
Load Weighted Price **	\$93.59	\$29.49	\$27.09	\$35.72	\$27.47				
Average Daily Energy Sendout/Month GWh	463	426	413	390	397				

NYISO Markets 2017 Energy Statistics

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

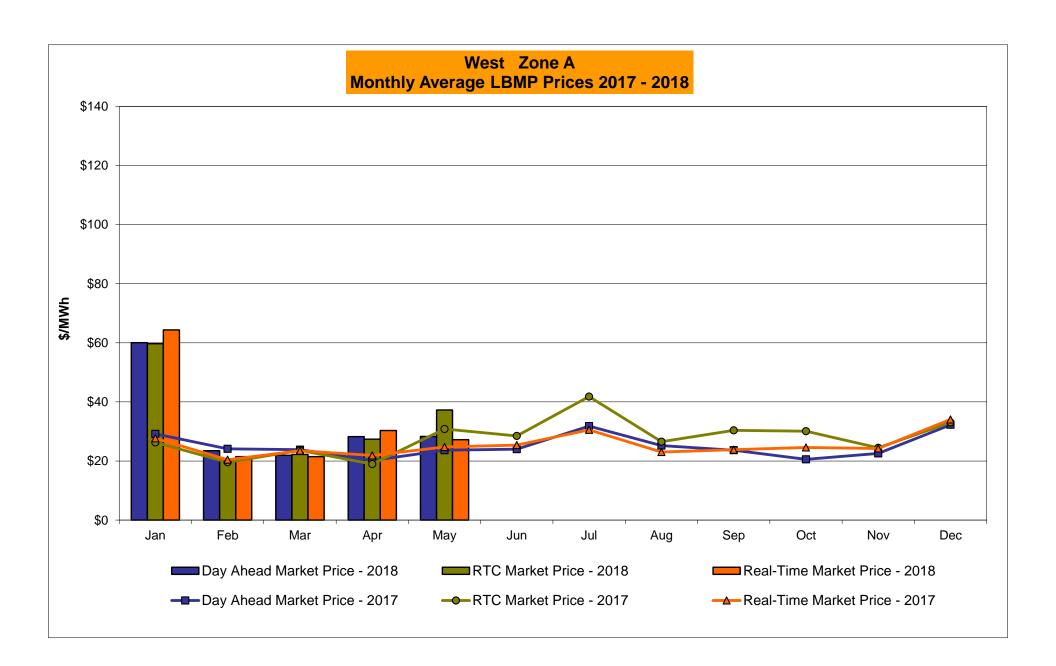
^{*} Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.

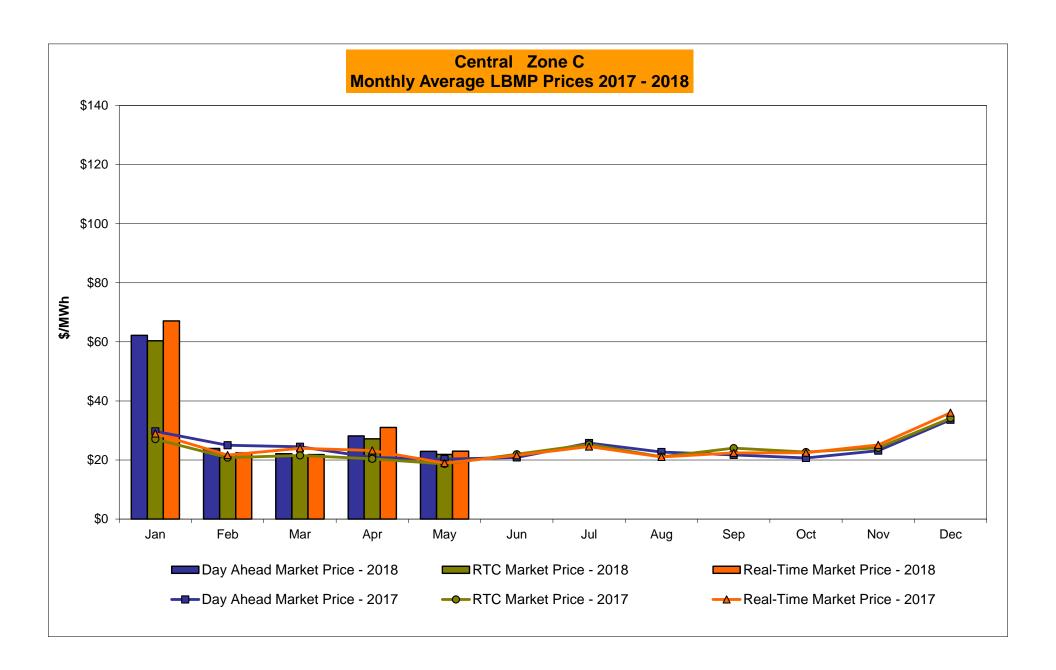


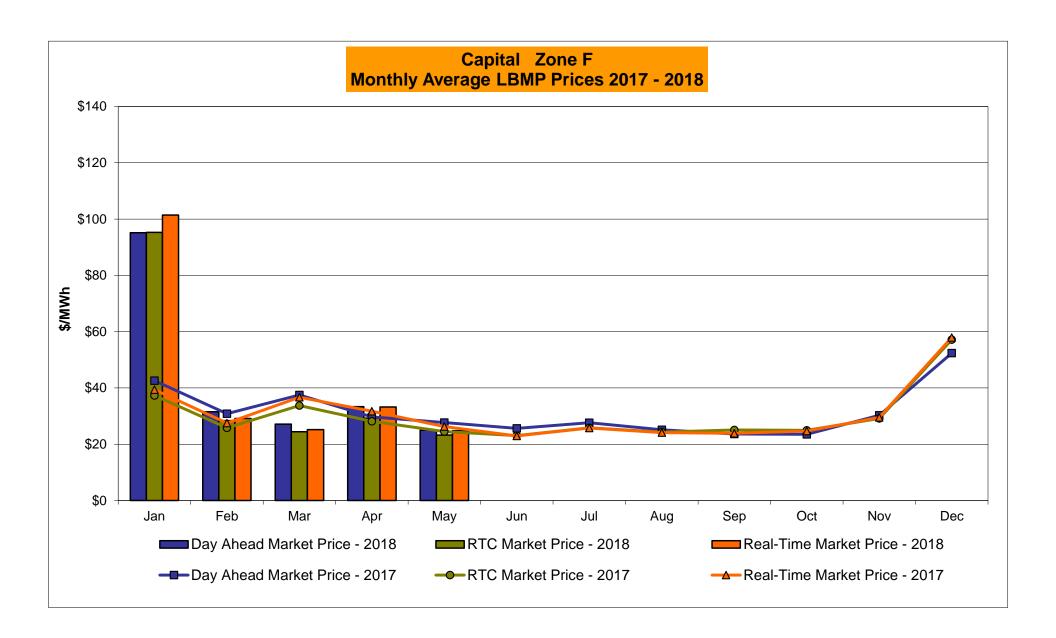
May 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

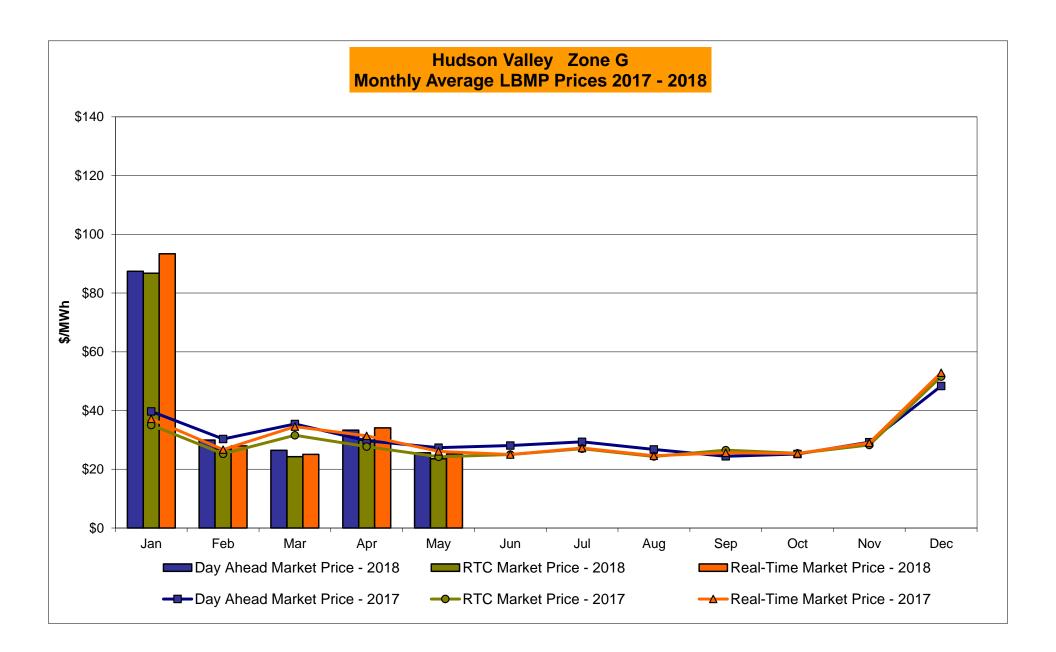
	WEST	05115055	NODTH	OENTD AL	MOHAWK	CARITAL	HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY		DUNWOODIE	CITY	ISLAND
DAV AUEAD I DMD	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP Unweighted Price *	28.31	22.22	10.35	22.94	21.60	24.99	25.61	25.71	25.75	26.96	30.44
Standard Deviation	23.83	7.93	6.72	7.98	7.24	7.50	8.29	8.35	8.36	26.96 9.14	9.94
Standard Deviation	23.03	7.93	0.72	7.90	7.24	7.50	0.29	0.33	0.30	9.14	9.94
RTC LBMP											
Unweighted Price *	37.27	21.21	8.87	21.87	19.89	23.25	23.57	23.60	23.62	25.64	27.11
Standard Deviation	103.93	16.29	44.87	14.95	14.95	13.52	14.07	14.11	14.10	14.27	18.49
REAL TIME LBMP											
Unweighted Price *	27.22	22.08	9.30	22.97	21.27	24.81	25.18	25.21	25.22	27.63	27.58
Standard Deviation	59.08	21.66	45.03	22.20	21.90	21.76	22.58	22.64	22.64	23.11	24.48
		HYDRO	HYDRO			CROSS					
	ONTARIO	QUEBEC	QUEBEC		NEW	SOUND	NORTHPORT-				
	ONTARIO IESO	QUEBEC		PJM	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	<u>Controllable</u>	Controllable
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND CABLE	NORWALK				
DAY AHEAD LBMP	IESO Zone O	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export) Zone M	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	Zone O 19.76	QUEBEC (Wheel) Zone M 13.25	QUEBEC (Import/Export) Zone M 13.25	Zone P 24.68	ENGLAND Zone N 25.28	SOUND CABLE Controllable Line	NORWALK Controllable Line 28.27	Controllable Line 29.32	Controllable Line 27.07	Controllable Line 26.09	Controllable Line 8.94
	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 19.76	QUEBEC (Wheel) Zone M 13.25	QUEBEC (Import/Export) Zone M 13.25	Zone P 24.68	ENGLAND Zone N 25.28	SOUND CABLE Controllable Line	NORWALK Controllable Line 28.27	Controllable Line 29.32	Controllable Line 27.07	Controllable Line 26.09	Controllable Line 8.94
Unweighted Price * Standard Deviation	Zone O 19.76	QUEBEC (Wheel) Zone M 13.25	QUEBEC (Import/Export) Zone M 13.25	Zone P 24.68	ENGLAND Zone N 25.28	SOUND CABLE Controllable Line	NORWALK Controllable Line 28.27	Controllable Line 29.32	Controllable Line 27.07	Controllable Line 26.09	Controllable Line 8.94
Unweighted Price * Standard Deviation RTC LBMP	Zone O 19.76 7.27	QUEBEC (Wheel) Zone M 13.25 6.77	QUEBEC (Import/Export) Zone M 13.25 6.77	Zone P 24.68 8.87	Zone N 25.28 7.44	SOUND CABLE Controllable Line 29.82 9.67	NORWALK Controllable Line 28.27 8.64	Controllable Line 29.32 9.56	Controllable Line 27.07 9.35	Controllable Line 26.09 8.53	Controllable Line 8.94 5.49
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	IESO Zone O 19.76 7.27	QUEBEC (Wheel) Zone M 13.25 6.77	QUEBEC (Import/Export) Zone M 13.25 6.77	Zone P 24.68 8.87	ENGLAND Zone N 25.28 7.44 22.62	SOUND CABLE Controllable Line 29.82 9.67	NORWALK Controllable Line 28.27 8.64	Controllable Line 29.32 9.56	27.07 9.35	Controllable Line 26.09 8.53	Controllable Line 8.94 5.49
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation REAL TIME LBMP	19.76 7.27 15.62 20.54	QUEBEC (Wheel) Zone M 13.25 6.77 11.55 34.04	QUEBEC (Import/Export) Zone M 13.25 6.77 11.55 34.04	24.68 8.87 26.02 48.37	Zone N 25.28 7.44 22.62 14.30	SOUND CABLE Controllable Line 29.82 9.67 26.55 17.59	NORWALK Controllable Line 28.27 8.64 26.06 16.21	29.32 9.56 26.35 17.68	27.07 9.35 25.76 13.87	26.09 8.53 24.01 14.25	Controllable Line 8.94 5.49 7.60 47.43
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	IESO Zone O 19.76 7.27	QUEBEC (Wheel) Zone M 13.25 6.77	QUEBEC (Import/Export) Zone M 13.25 6.77	Zone P 24.68 8.87	ENGLAND Zone N 25.28 7.44 22.62	SOUND CABLE Controllable Line 29.82 9.67	NORWALK Controllable Line 28.27 8.64	Controllable Line 29.32 9.56	27.07 9.35	Controllable Line 26.09 8.53	Controllable Line 8.94 5.49

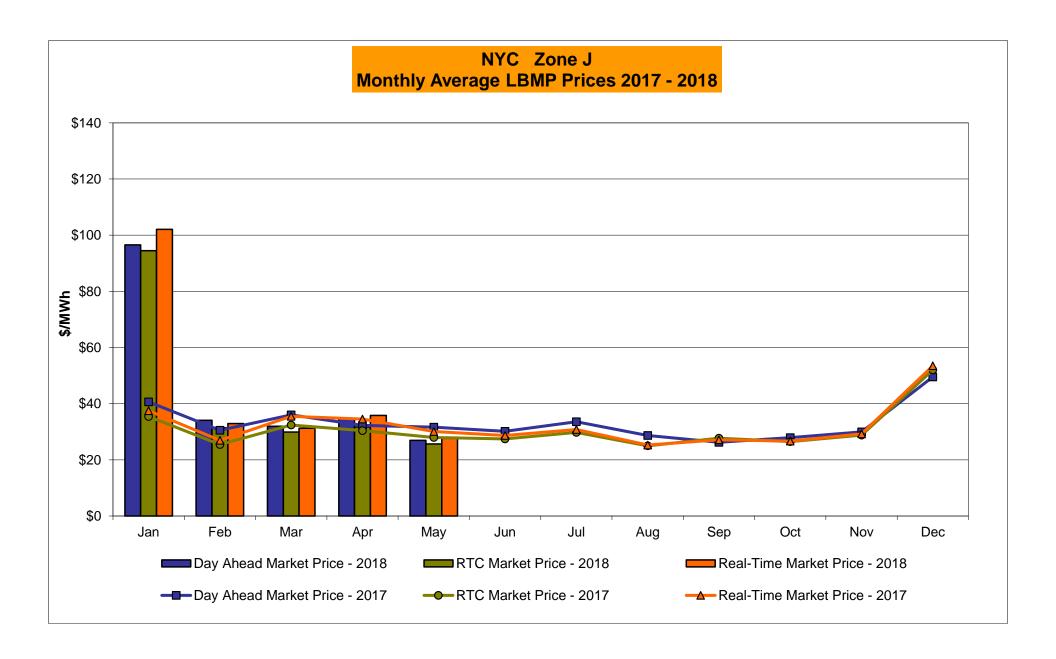
^{*} Straight LBMP averages

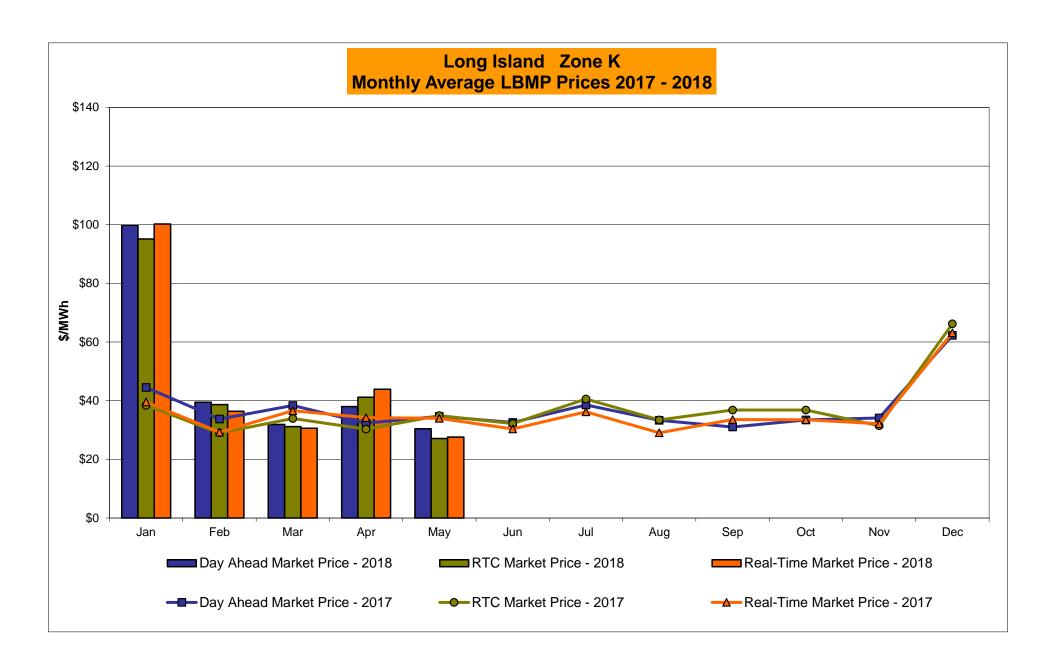


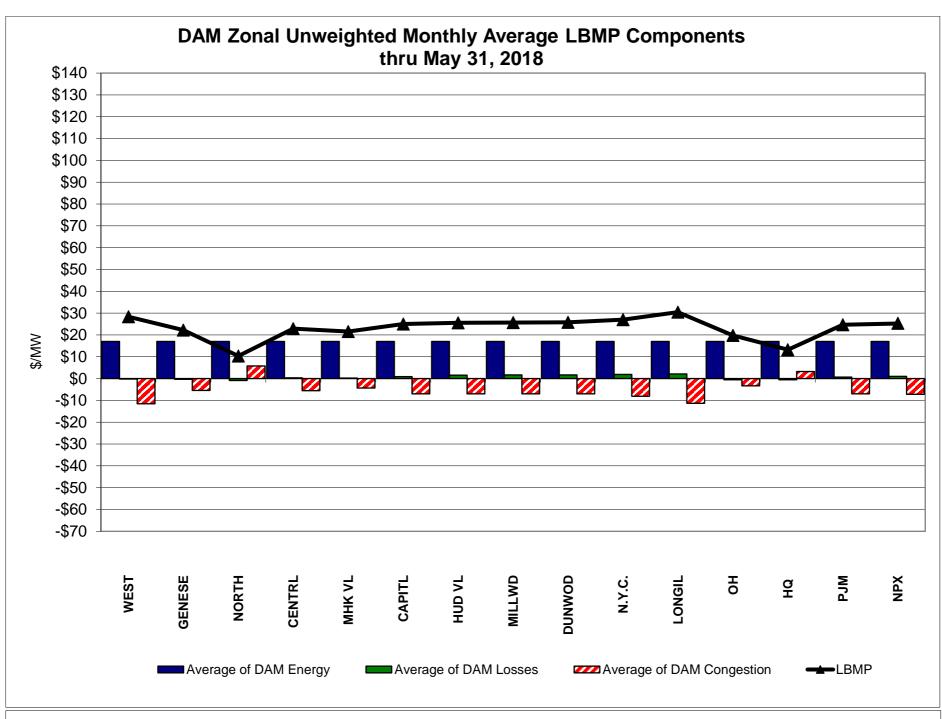


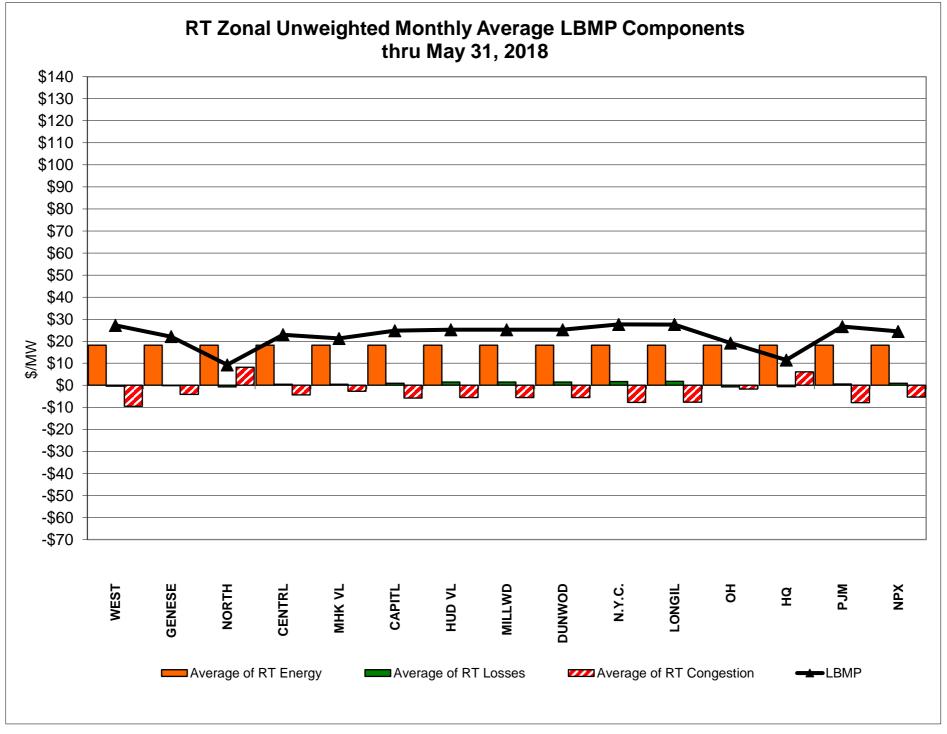




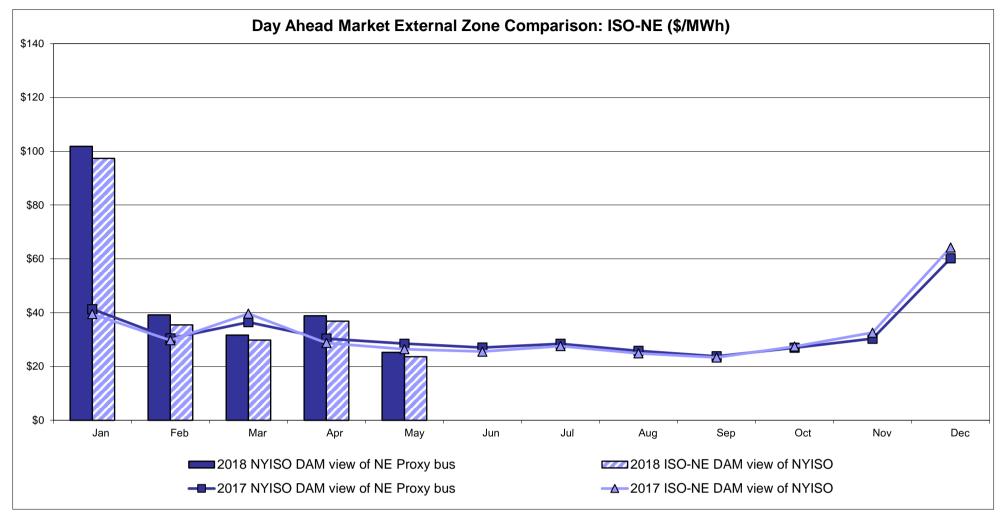


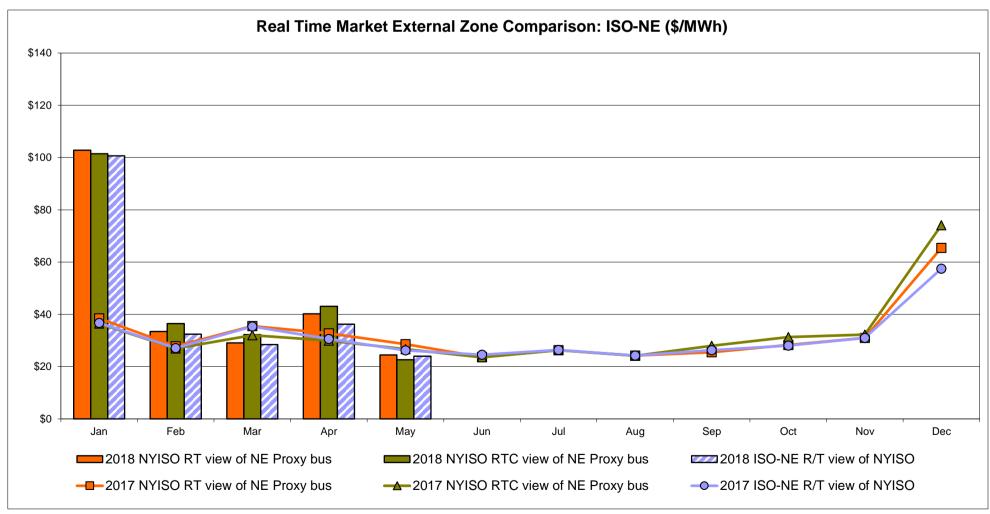




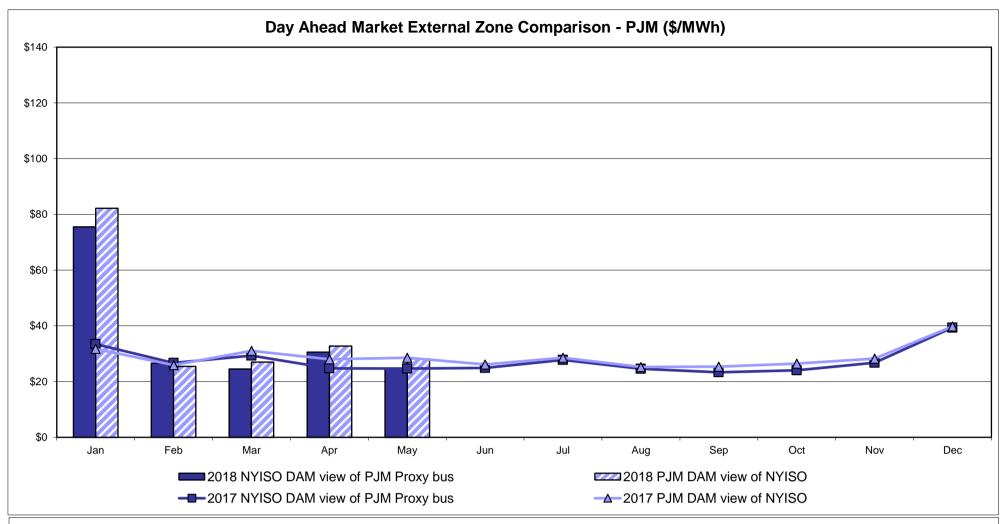


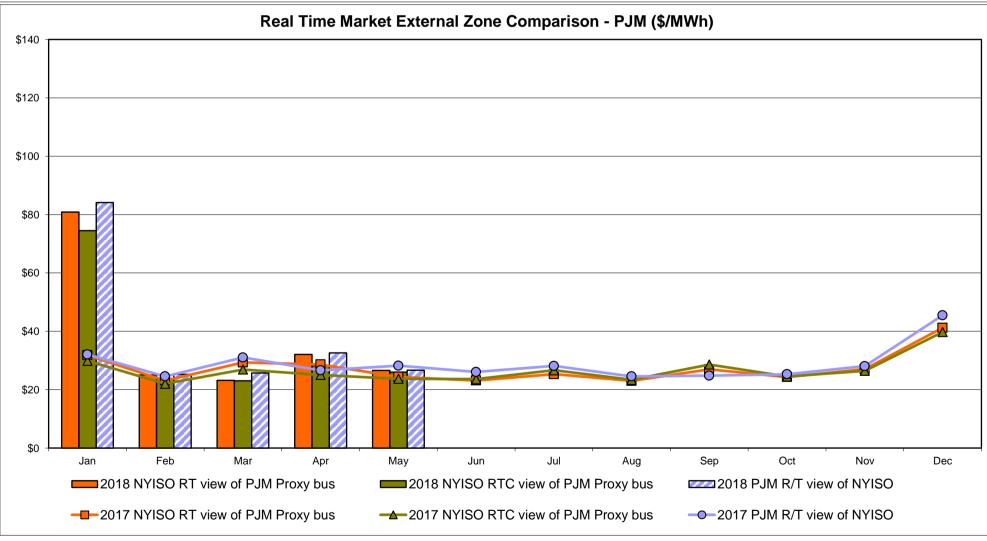
External Comparison ISO-New England



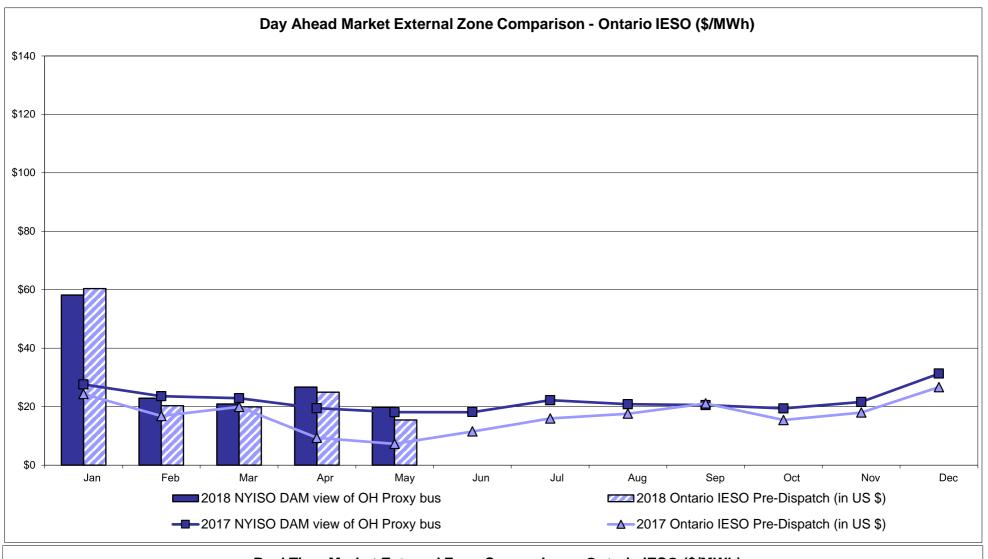


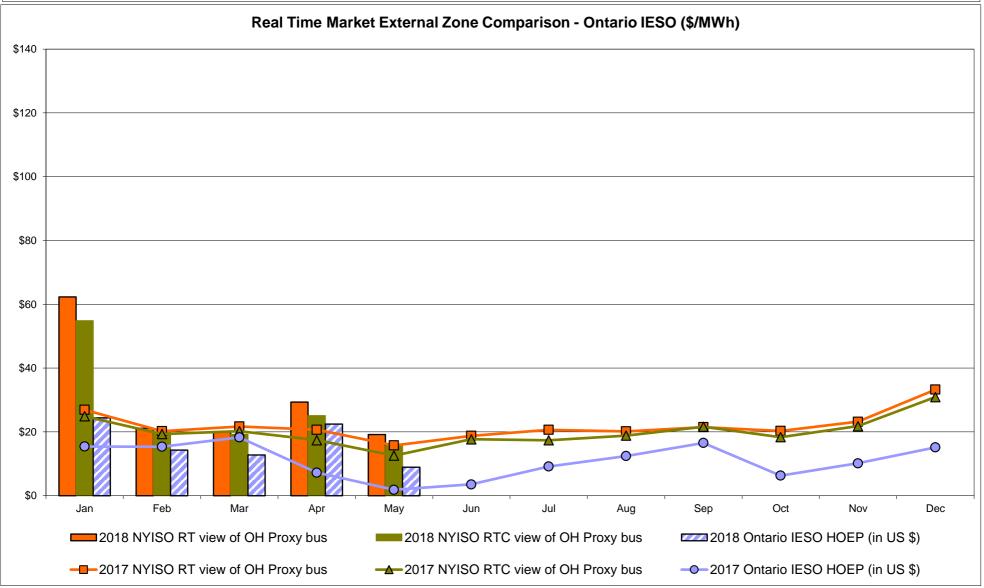
External Comparison PJM





External Comparison Ontario IESO

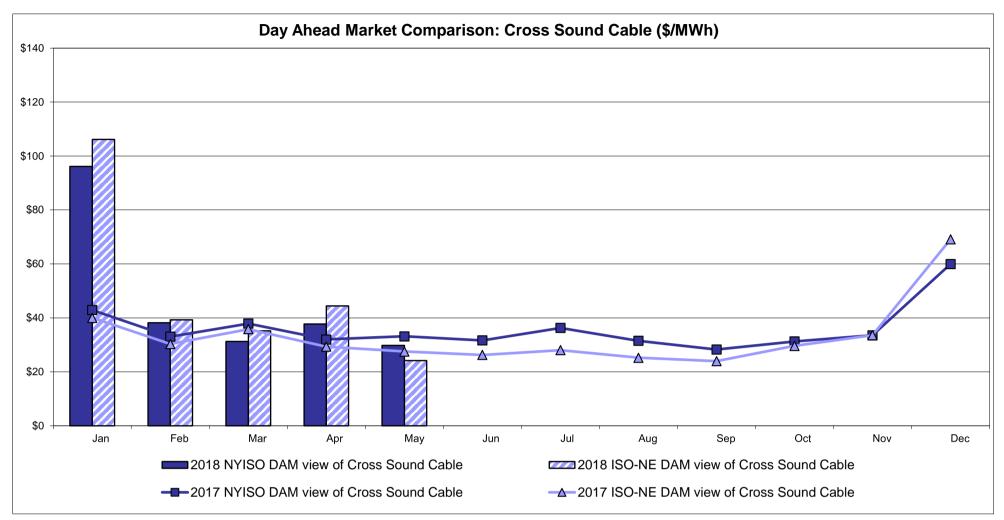


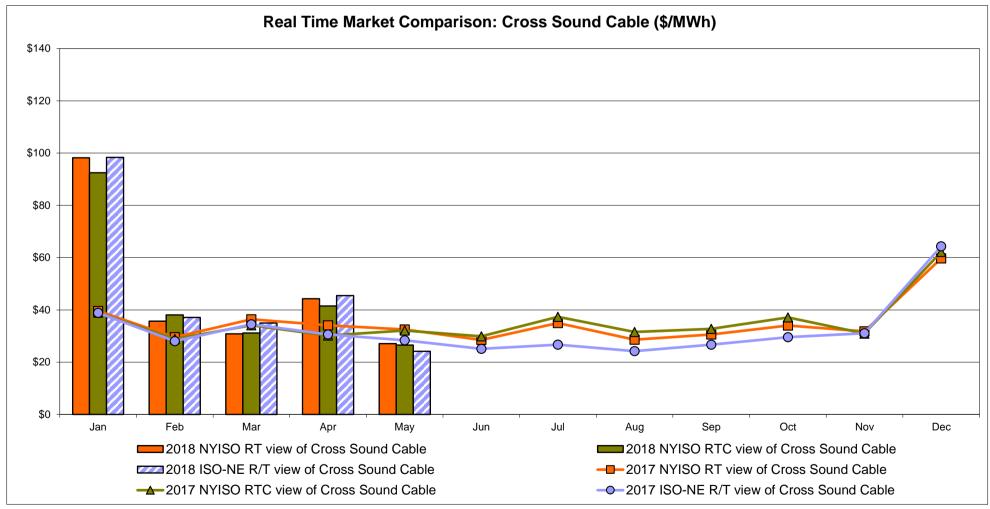


Notes: Exchange factor used for May 2018 was 0.77724234416291 to US

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

External Controllable Line: Cross Sound Cable (New England)





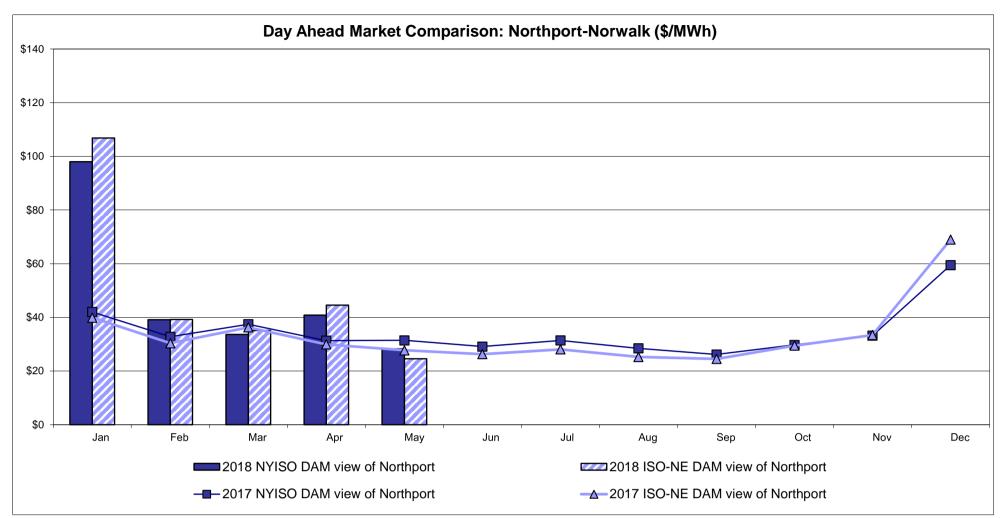
Note:

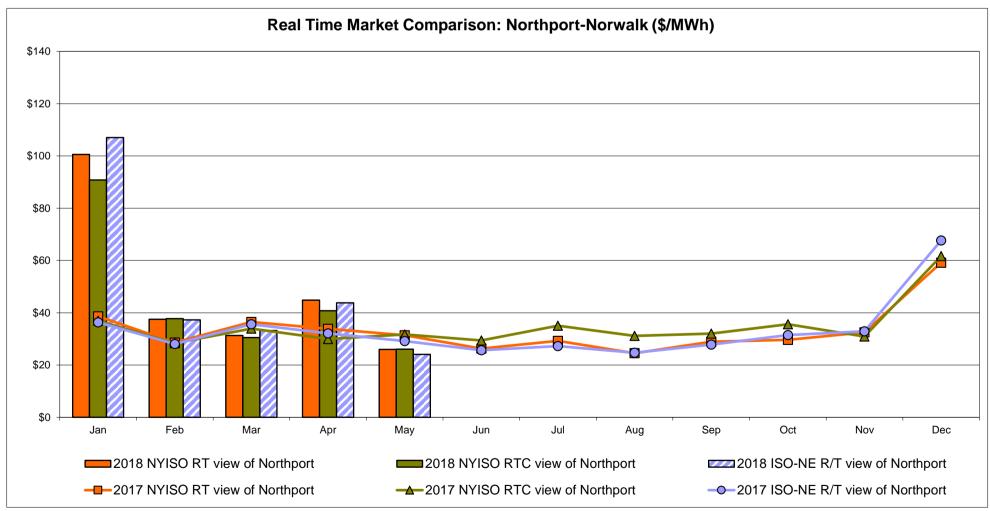
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

External Controllable Line: Northport - Norwalk (New England)





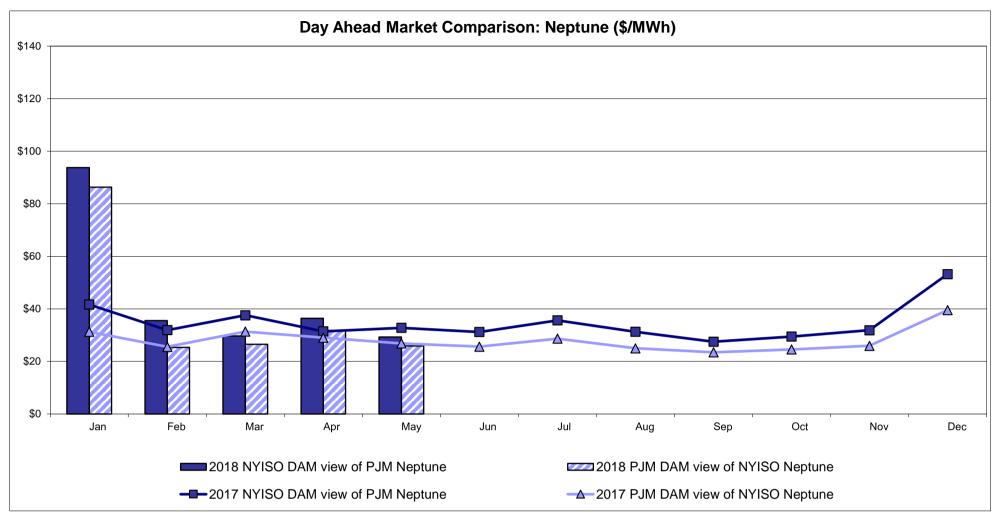
Note:

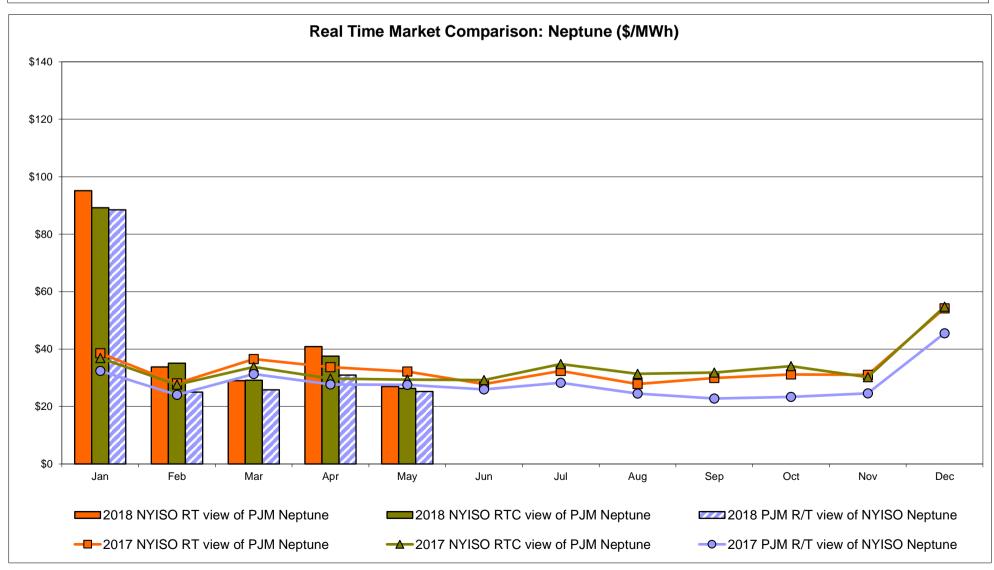
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

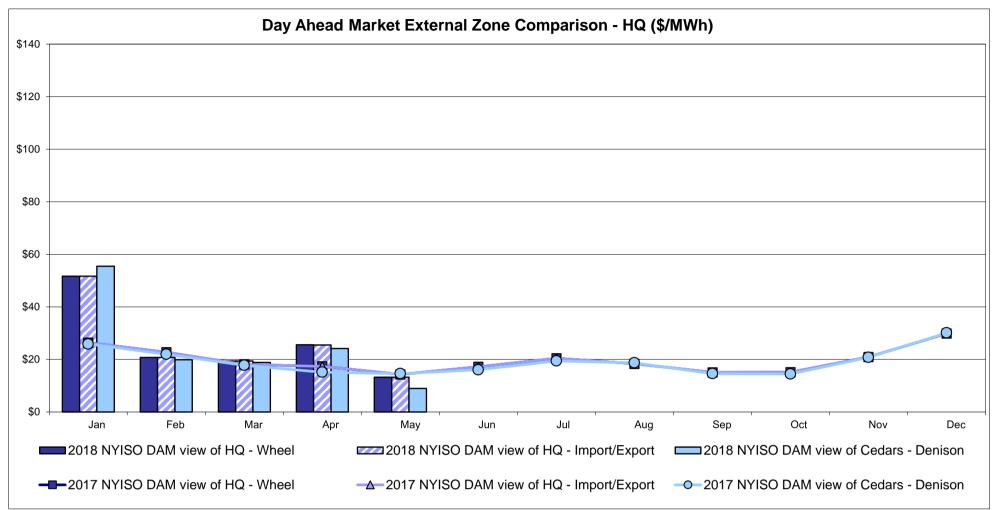
The DAM and R/T prices at the 1385 interface are used for NYISO.

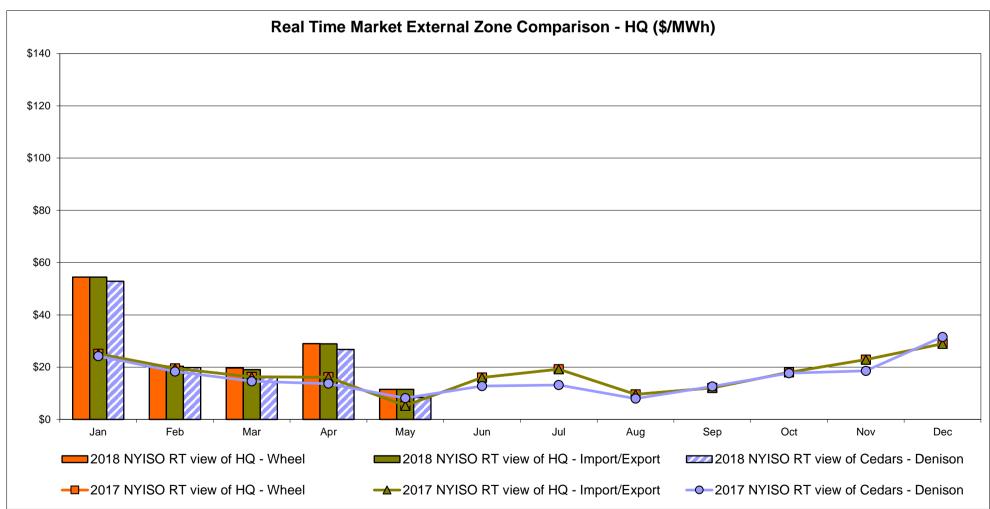
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

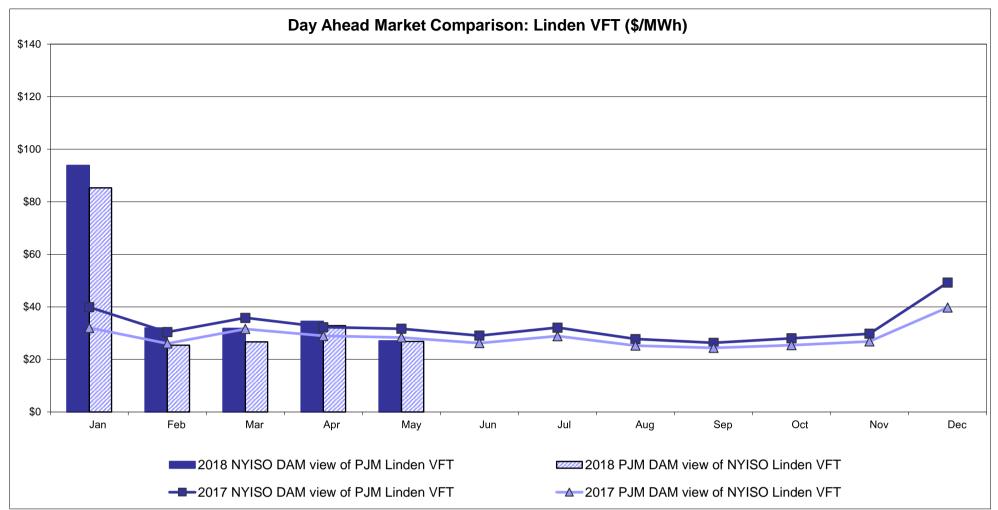


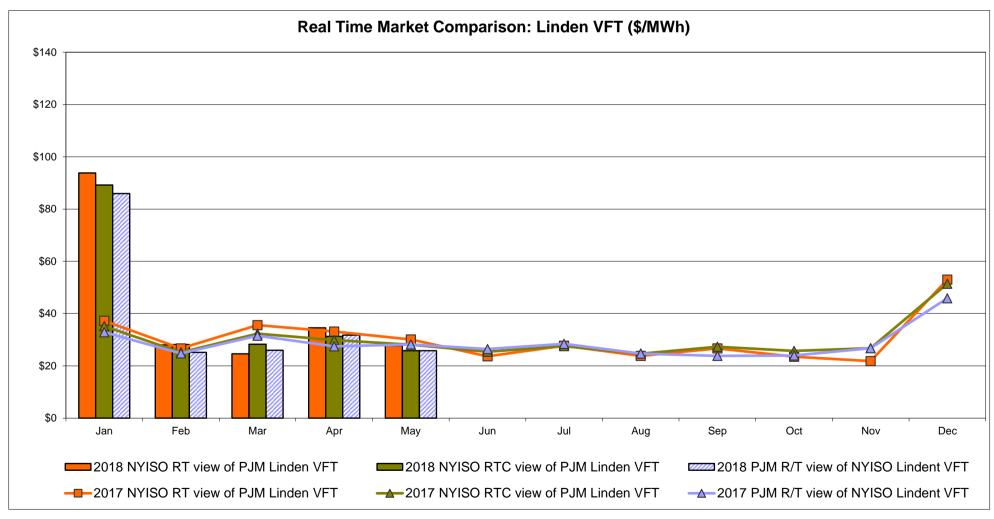


Note:

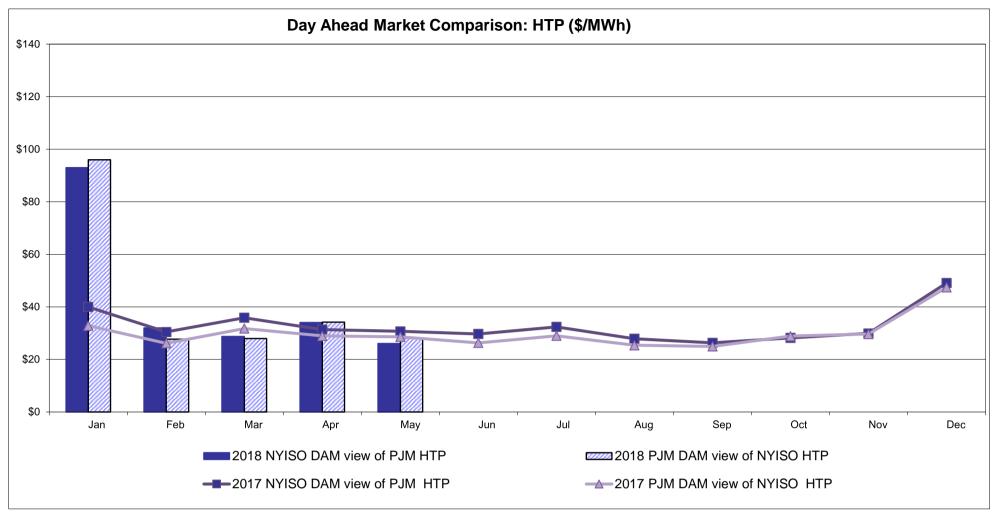
Hydro-Quebec Prices are unavailable.

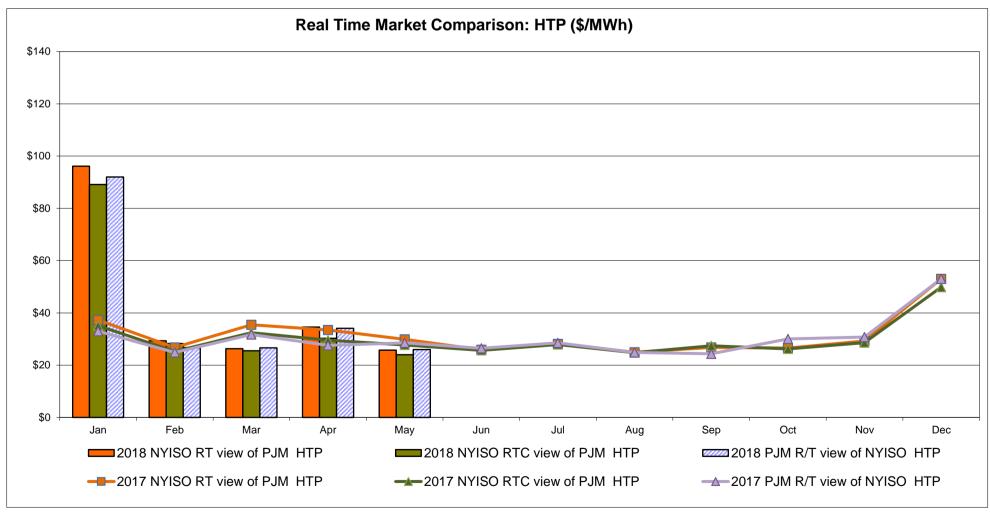
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)

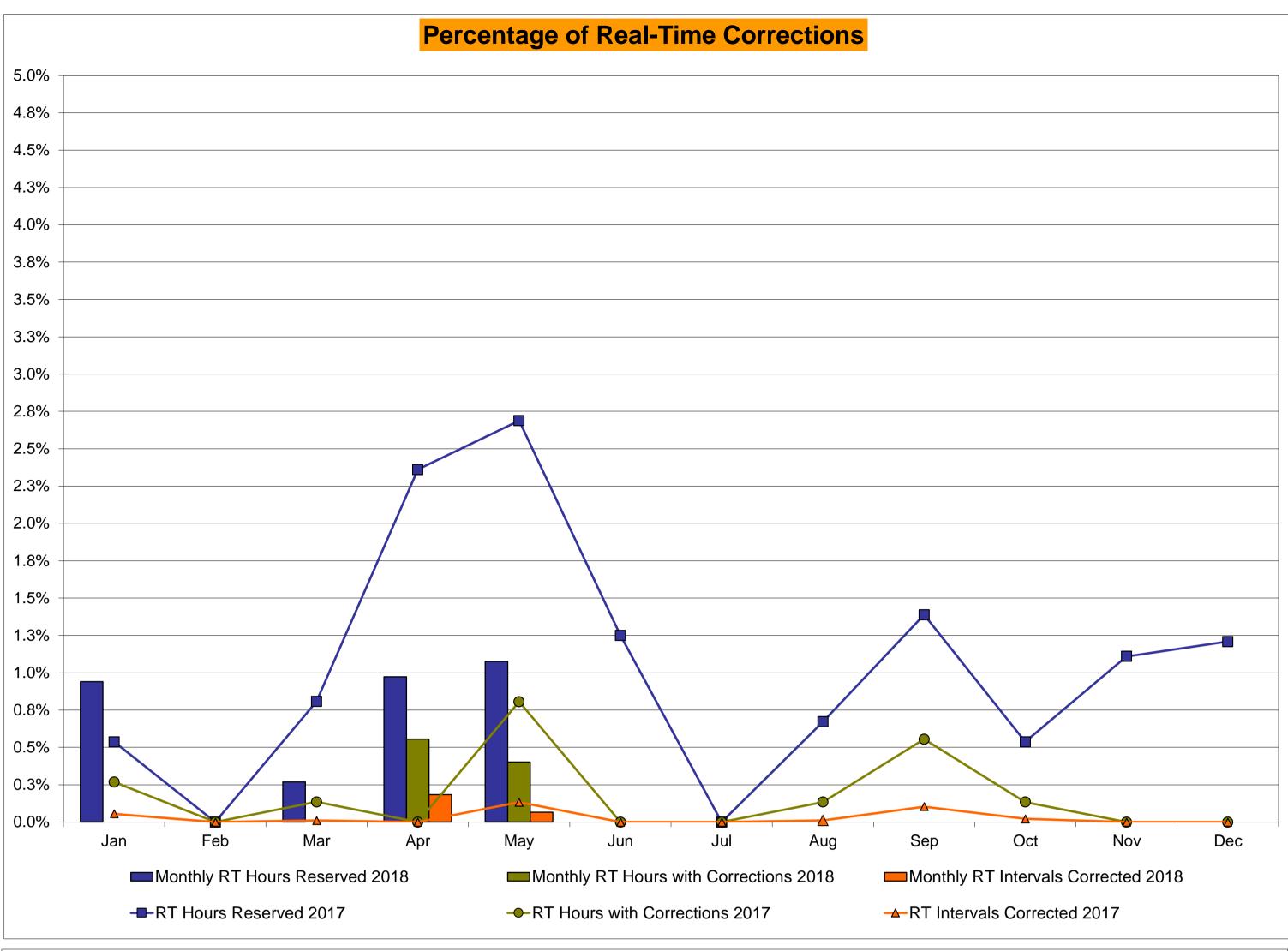


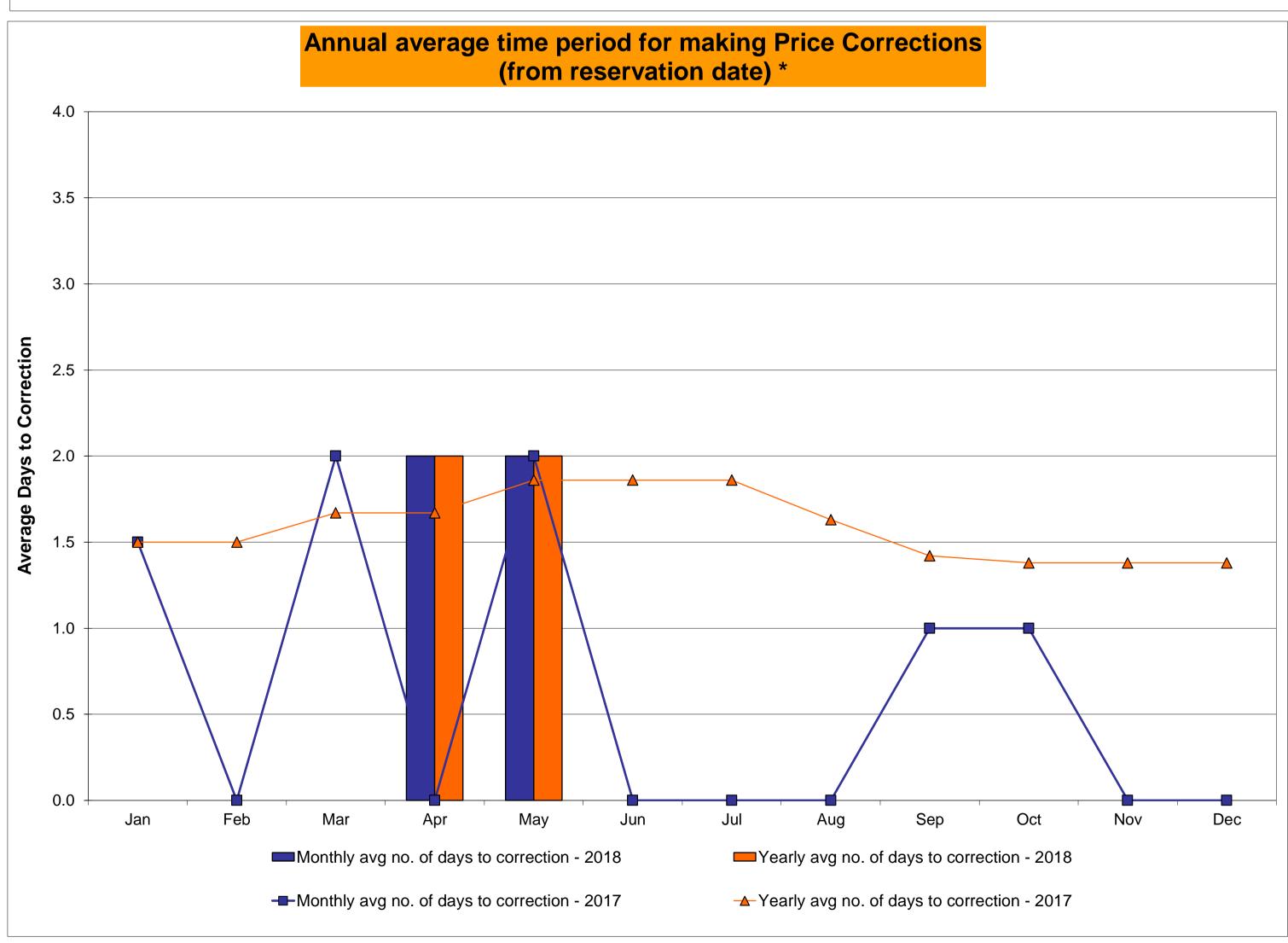


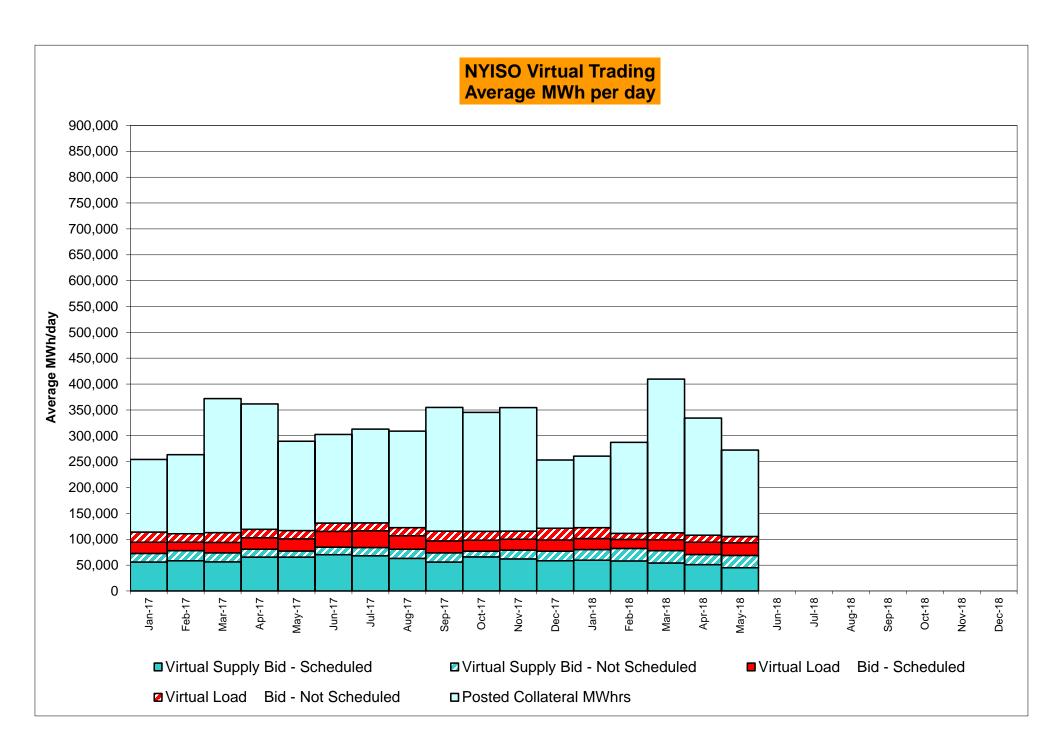
NYISO Real Time Price Correction Statistics

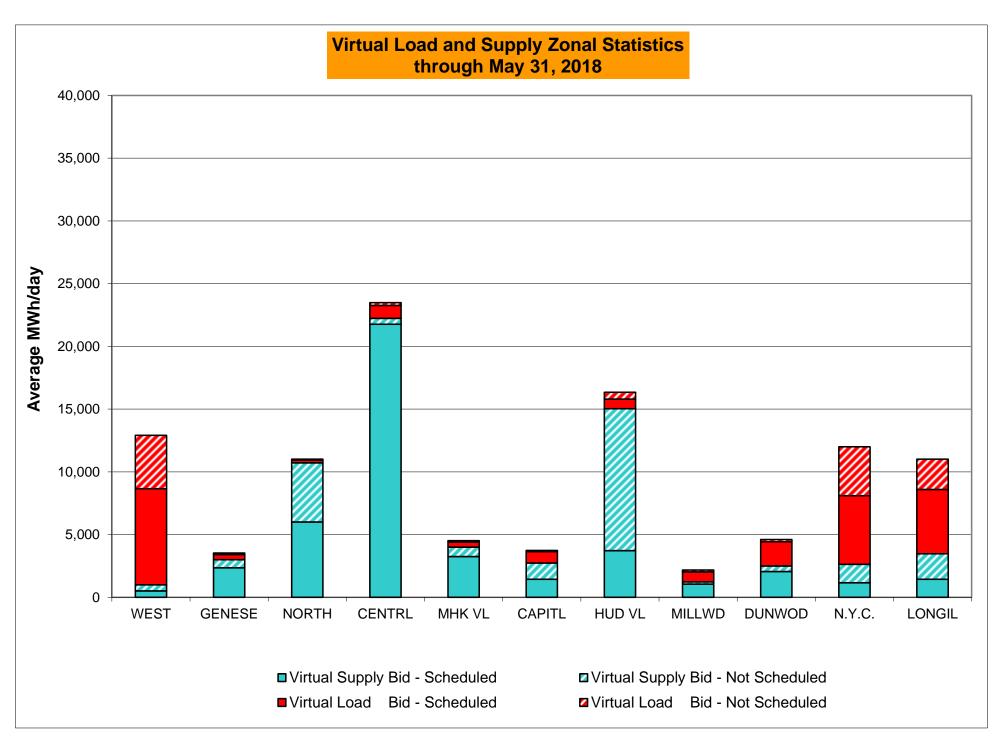
<u>2018</u>		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
Hour Corrections													
Number of hours with corrections	in the month	0	0	0	4	3							
Number of hours	in the month	744	672	743	720	744							
% of hours with corrections	in the month	0.00%	0.00%	0.00%	0.56%	0.40%							
% of hours with corrections	year-to-date	0.00%	0.00%	0.00%	0.14%	0.19%							
Interval Corrections	in the meanth	0	0	0	40	•							
Number of intervals corrected	in the month	0	0	0	16	6							
Number of intervals	in the month	9,021	8,112	9,002	8,717	9,033							
% of intervals corrected	in the month	0.00%	0.00%	0.00%	0.18%	0.07%							
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%	0.05%	0.05%							
Hours Reserved				_									
Number of hours reserved	in the month	7	0	2	7	8							
Number of hours	in the month	744	672	743	720	744							
% of hours reserved	in the month	0.94%	0.00%	0.27%	0.97%	1.08%							
% of hours reserved	year-to-date	0.94%	0.49%	0.42%	0.56%	0.66%							
Days to Correction *													
Avg. number of days to correction	in the month	0.00	0.00	0.00	2.00	2.00							
Avg. number of days to correction	year-to-date	0.00	0.00	0.00	2.00	2.00							
Days Without Corrections													
Days without corrections	in the month	31	28	31	28	28							
Days without corrections	year-to-date	31	59	90	118	146							
<u>2017</u>		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	<u>November</u>	<u>December</u>
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>	<u>October</u>	November	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	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	0 672	1 743	0 720	6 744	0 720	0 744	1 744	4 720	1 744	0 721	0 744
Hour Corrections Number of hours with corrections		2	0	1	0	6	0	0	1	4	1	0	0
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month	2 744	0 672	1 743	0 720	6 744	0 720	0 744	1 744	4 720	1 744	0 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	2 744 0.27% 0.27%	0 672 0.00% 0.14%	1 743 0.13%	0 720 0.00% 0.10%	6 744 0.81% 0.25%	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13%	4 720 0.56% 0.21%	1 744 0.13% 0.21%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% 0.27%	0 672 0.00% 0.14%	1 743 0.13% 0.14%	0 720 0.00% 0.10%	6 744 0.81% 0.25%	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13% 0.17%	4 720 0.56% 0.21%	1 744 0.13% 0.21%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	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	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 % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 5 8,983	0 672 0.00% 0.14% 0 8,101	1 743 0.13% 0.14% 1 9,026	0 720 0.00% 0.10% 0 8,745	6 744 0.81% 0.25% 12 9,004	0 720 0.00% 0.21% 0 8,712	0 744 0.00% 0.18% 0 8,968	1 744 0.13% 0.17% 1 8,980	4 720 0.56% 0.21% 9 8,701	1 744 0.13% 0.21% 2 9,006	0 721 0.00% 0.19% 0 8,712	0 744 0.00% 0.17% 0 9,063
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%	0 672 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% 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%	0 744 0.00% 0.18% 0 8,968 0.00%	1 744 0.13% 0.17% 1 8,980 0.01%	4 720 0.56% 0.21% 9 8,701 0.10% 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%
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 Wors Reserved Number of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744	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% 0 744	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% 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 Wors Reserved Number of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744	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% 0 744	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% 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	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	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 % of hours reserved Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744 0.54% 0.54%	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 Wof intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved % of hours reserved % of hours reserved Days to Correction Avg. 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%	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%	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 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% 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05%

^{*} Calendar days from reservation date.



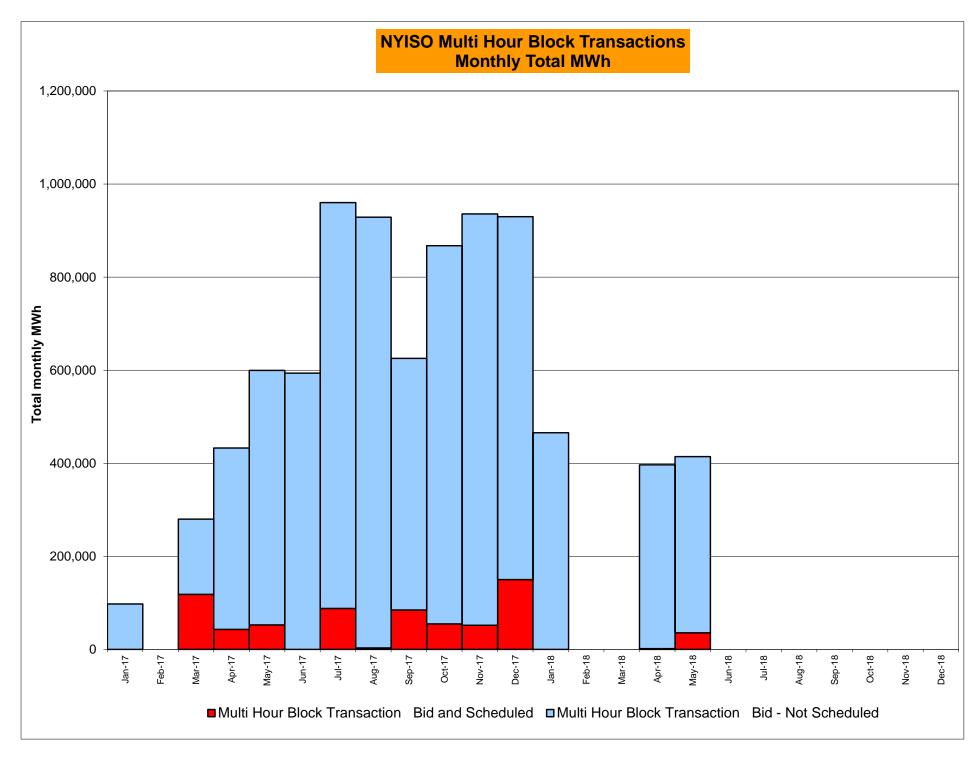


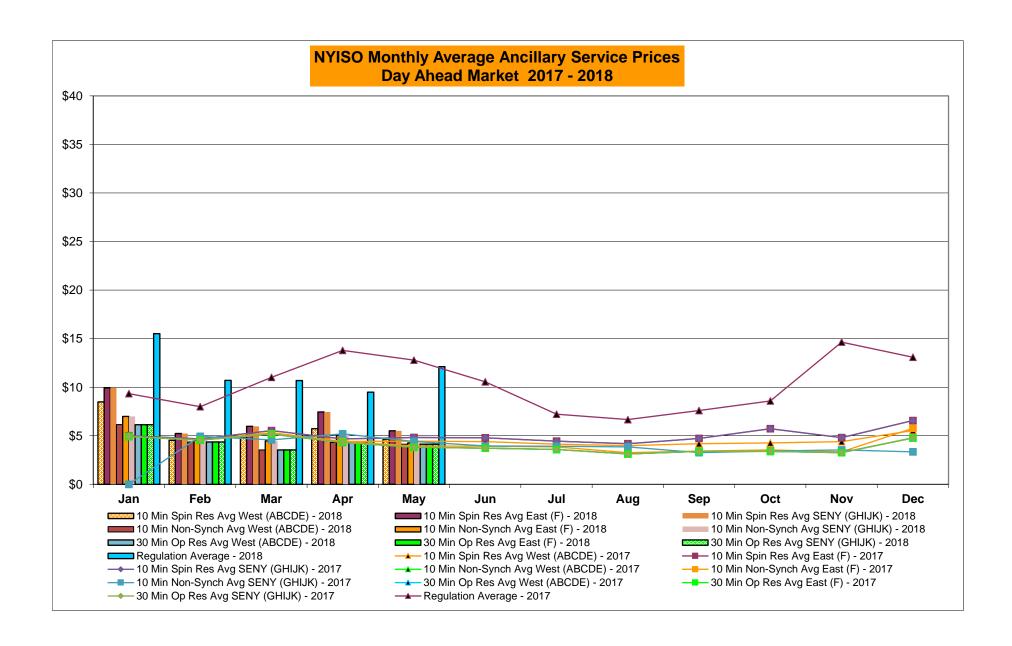


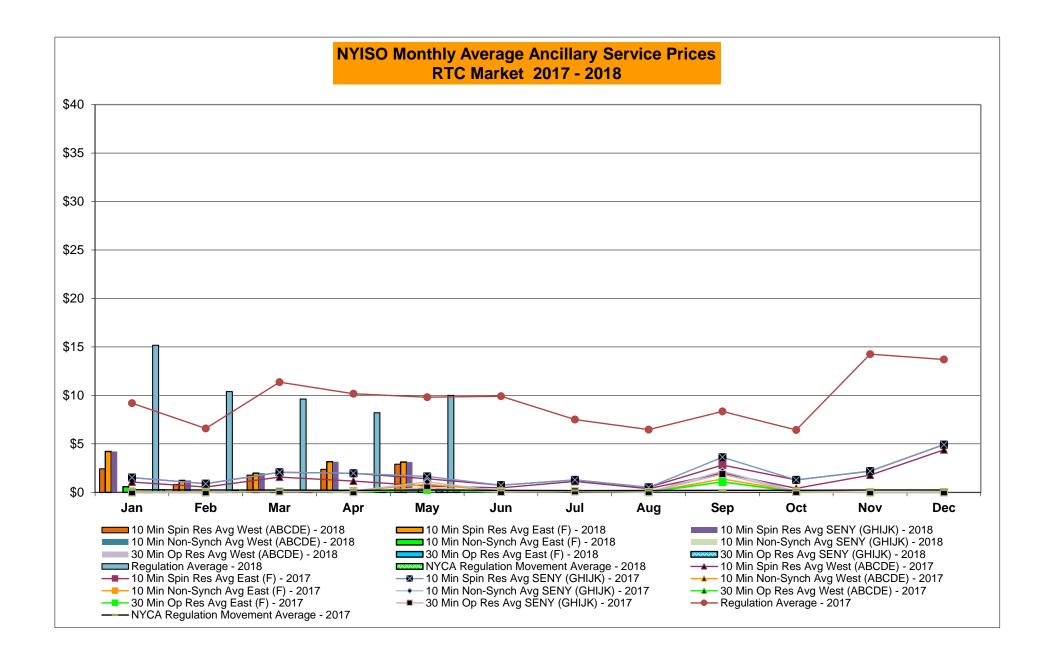


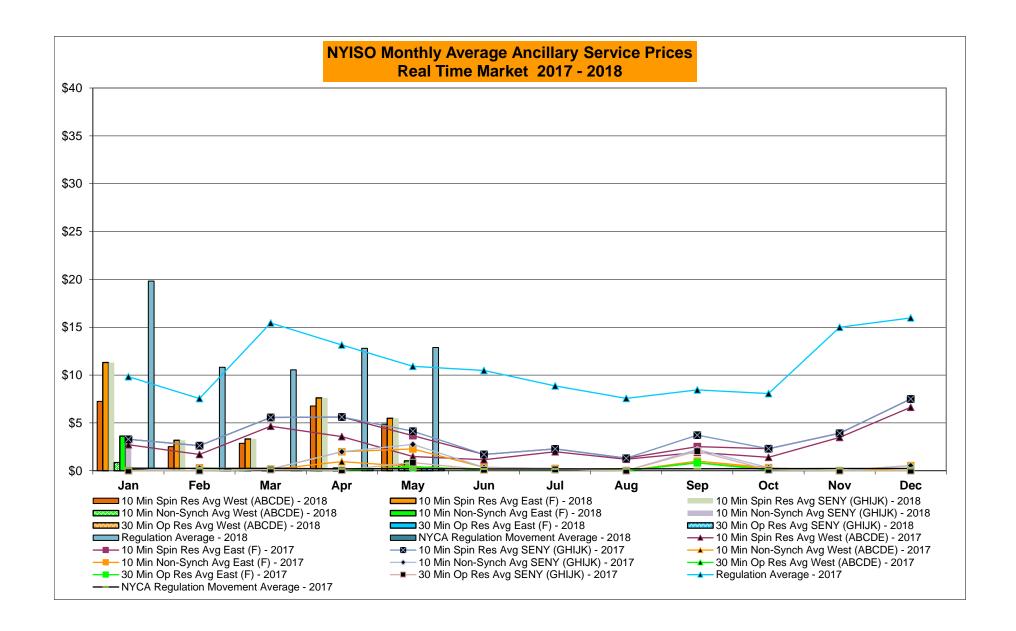
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018

		Virtual L	oad Bid	Virtual Su	upply Bid	·		Virtual L	oad Bid	Virtual Su	upply Bid			Virtual I	Load Bid	Virtual Su	ıpplv Bid
			Not		Not				Not	Till Call	Not		T		Not	THE COLUMN CO.	Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-18		4,241	1,938	427	MHK VL	Jan-18		456	2,040		DUNWOE				2,215	
111201	Feb-18	· ·	1,941	1,478	603	IIIII VE	Feb-18		130	1,910		Bonno	Feb-18	· ·		5,891	824
	Mar-18		2,535	860	659		Mar-18		139	1,896			Mar-18			3,530	
	Apr-18	-	3,433	926	393		Apr-18		173				Apr-18	· ·		2,395	333
	May-18		4,266	516	478	-	May-18		95	3,242			May-18				
	Jun-18	· · · · · · · · · · · · · · · · · · ·	1,200	010		_	Jun-18			0,212	700		Jun-18		100	2,002	110
	Jul-18					_	Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18	 					Dec-18						Dec-18	+			
	Dec-10						Dec-10						Dec-10)			
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	4,302	5,885	1,359	704
	Feb-18		172	1,723	2,671		Feb-18		269	1,331	2,799		Feb-18			1,181	1,086
	Mar-18		143		2,488		Mar-18		156				Mar-18			1,727	1,285
	Apr-18		234	1,818	1,047		Apr-18		263	2,032			Apr-18			2,212	1,376
	May-18			2,353	649		May-18		95	1,430			May-18			1,152	
	Jun-18			,			Jun-18			,	,,,,,,		Jun-18		-,-	, -	, -
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
NORTH	Jan-18		282	8,259	3,265	HUD VL	Jan-18	·	1,285	5,029		LONGIL	Jan-18	· ·		1,932	1,622
	Feb-18		369	7,449	2,777		Feb-18		740	4,703			Feb-18			3,061	2,605
	Mar-18			6,995	2,136		Mar-18		1,098	5,169			Mar-18			3,308	1,768
	Apr-18			7,479	1,848		Apr-18		973	5,990			Apr-18			2,505	-
	May-18		79	6,001	4,717		May-18		539	3,727	11,304		May-18		2,420	1,436	2,031
	Jun-18					_	Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18					_	Oct-18						Oct-18				
	Nov-18					_	Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18	5			
CENTRL	Jan-18	983	434	28,975	647	MILLWD	Jan-18	923	988	2,033	757	NYISO	Jan-18	21,542	20,854	59,437	20,478
	Feb-18			28,161	483		Feb-18			1,284			Feb-18				
	Mar-18		208		614		Mar-18		141	1,144			Mar-18			53,984	23,855
	Apr-18			22,490	677		Apr-18						Apr-18			50,864	19,613
	May-18			21,769	470		May-18		140	1,050	188		May-18			44,726	
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18	3			





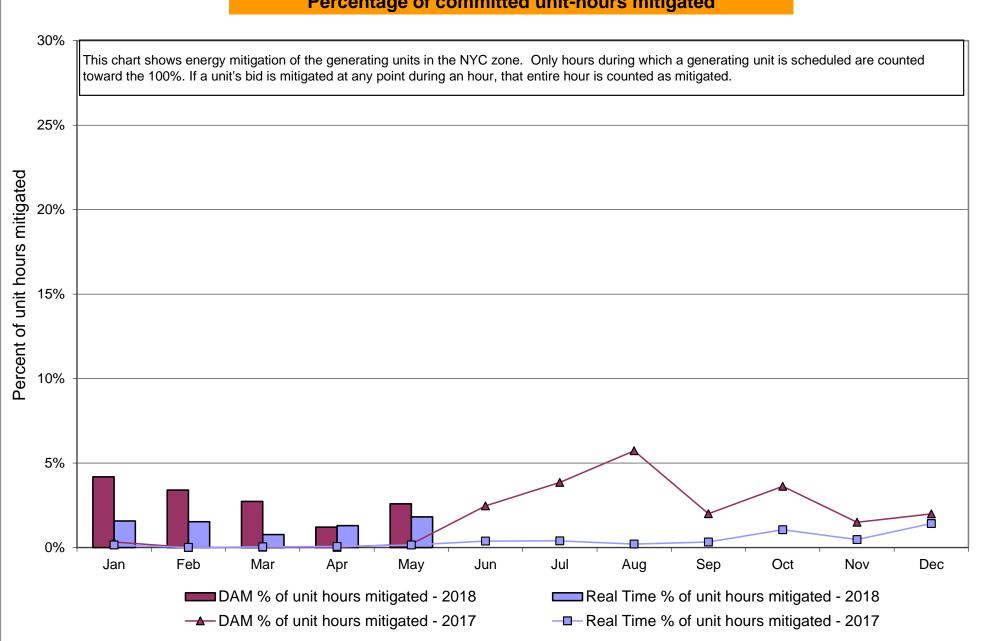


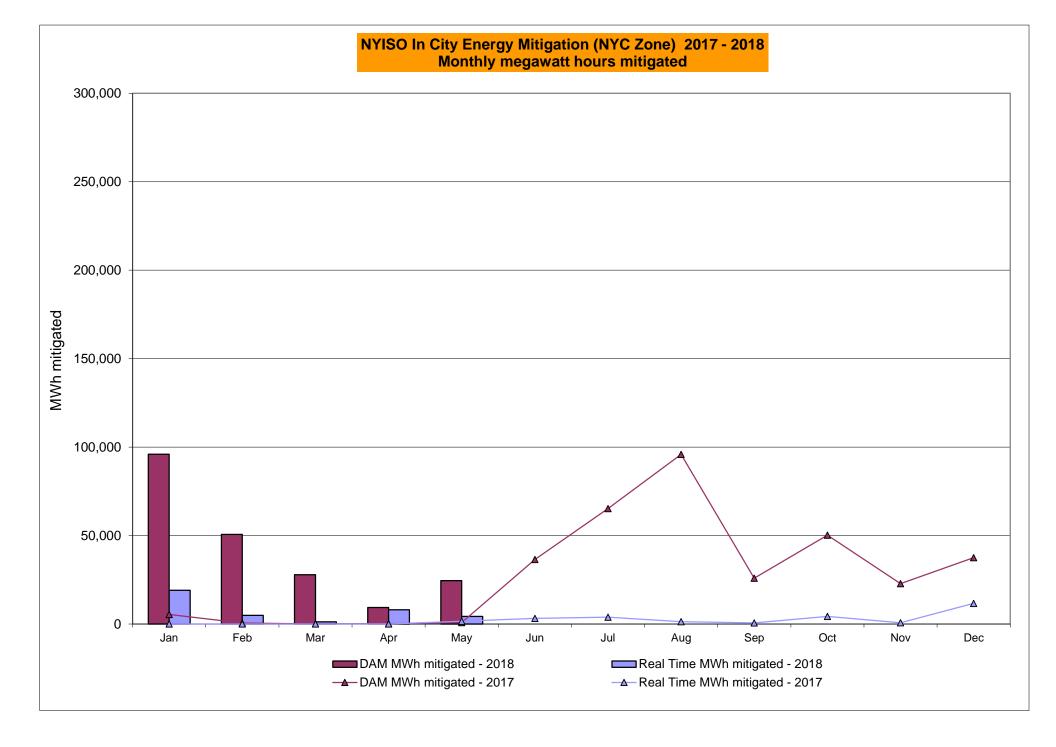


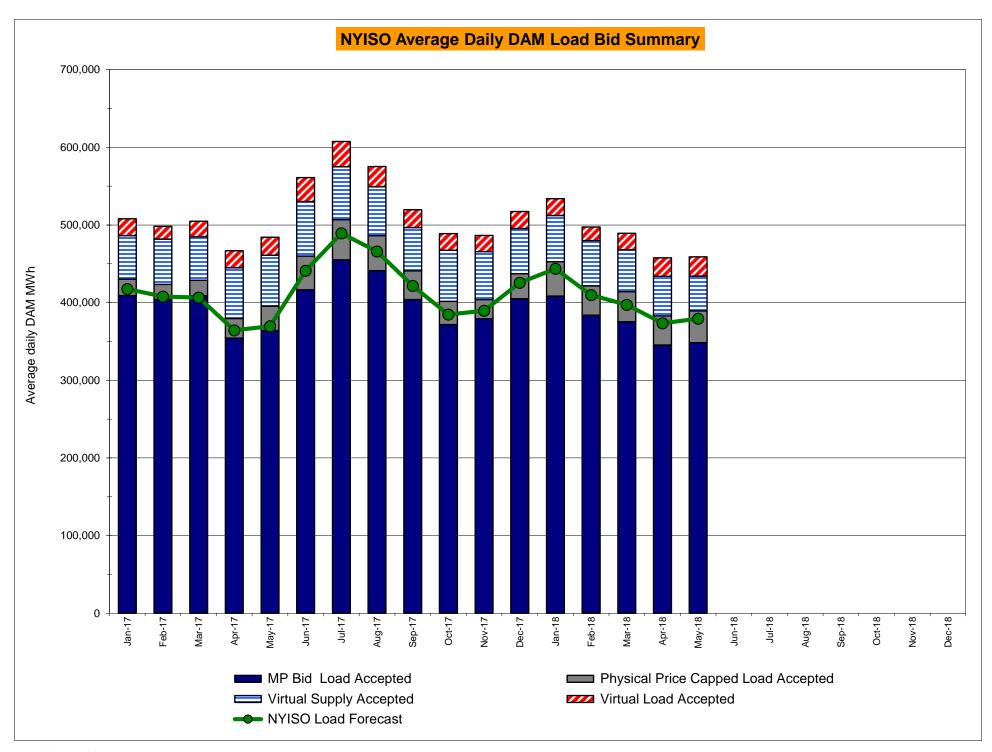
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

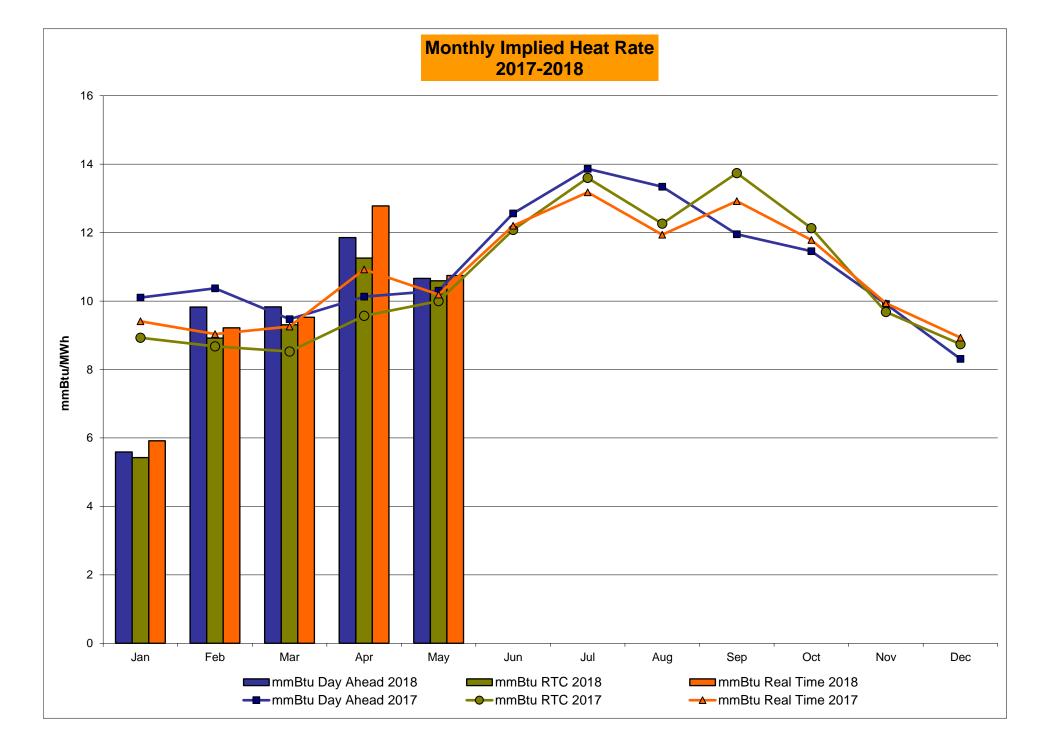
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2018	<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
Day Ahead Market	<u>••••••</u>	<u> </u>	<u></u>	<u></u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52							
10 Min Spin East (F)	9.93	5.24	5.97	7.45	5.52							
10 Min Spin West (ABCDE)	8.49	4.53	4.78	5.73	4.65							
10 Min Non Synch SENY (GHIJK)	6.99	4.54	4.48	5.05	4.26							
10 Min Non Synch East (F)	6.99	4.54	4.48	5.05	4.26							
10 Min Non Synch West (ABCDE)	6.15	4.36	3.54	4.31	4.13							
30 Min SENY (GHIJK)	6.14	4.36	3.54	4.31	4.13							
30 Min East (F)	6.14	4.36	3.54	4.31	4.13							
30 Min Last (1)	6.14	4.36	3.54	4.31	4.13							
,			10.68	9.49	12.11							
Regulation	15.51	10.70	10.00	9.49	12.11							
RTC Market												
10 Min Spin SENY (GHIJK)	4.23	1.24	1.98	3.17	3.13							
10 Min Spin East (F)	4.23	1.24	1.98	3.17	3.13							
10 Min Spin West (ABCDE)	2.43	0.82	1.79	2.38	2.91							
10 Min Non Synch SENY (GHIJK)	0.59	0.03	0.01	0.22	0.42							
10 Min Non Synch East (F)	0.59	0.03	0.01	0.22	0.42							
10 Min Non Synch West (ABCDE)	0.08	0.02	0.00	0.00	0.33							
30 Min SENY (GHIJK)	0.08	0.02	0.00	0.00	0.32							
30 Min East (F)	0.08	0.02	0.00	0.00	0.32							
30 Min West (ABCDE)	0.08	0.02	0.00	0.00	0.32							
Regulation	15.17	10.40	9.63	8.22	10.01							
NYCA Regulation Movement	0.26	0.21	0.20	0.22	0.19							
_	0.20	0.21	0.20	0.22	0.10							
Real Time Market												
10 Min Spin SENY (GHIJK)	11.31	3.19	3.31	7.62	5.48							
10 Min Spin East (F)	11.31	3.19	3.31	7.62	5.48							
10 Min Spin West (ABCDE)	7.24	2.52	2.86	6.77	4.86							
10 Min Non Synch SENY (GHIJK)	3.61	0.01	0.19	0.28	1.03							
10 Min Non Synch East (F)	3.61	0.01	0.19	0.28	1.03							
10 Min Non Synch West (ABCDE)	0.85	0.00	0.00	0.00	0.57							
30 Min SENY (GHIJK)	0.13	0.00	0.00	0.00	0.37							
30 Min East (F)	0.13	0.00	0.00	0.00	0.37							
30 Min West (ABCDE)	0.13	0.00	0.00	0.00	0.37							
Regulation	19.82	10.82	10.54	12.80	12.88							
NYCA Regulation Movement	0.24	0.21	0.20	0.21	0.17							
INTER REQUIATION MOVEMENT												
NTCA Regulation Movement	0.24	0.21	00									
-						June	July	August	September	October	November	December
<u>2017</u>	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
2017 Day Ahead Market	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>							
2017 Day Ahead Market 10 Min Spin SENY (GHIJK)	<u>January</u> 5.01	<u>February</u> 5.38	<u>March</u> 5.04	<u>April</u> 6.31	<u>May</u> 4.93	4.62	6.41	7.12	5.57	5.37	4.83	4.89
2017 Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	<u>January</u> 5.01 5.01	<u>February</u> 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	4.62 4.62	6.41 6.41	7.12 7.12	5.57 5.57	5.37 5.37	4.83 4.83	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	4.62 4.62 4.52	6.41 6.41 5.78	7.12 7.12 6.20	5.57 5.57 5.14	5.37 5.37 4.89	4.83 4.83 4.50	4.89 4.89 4.73
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	4.62 4.62 4.52 4.36	6.41 6.41 5.78 6.34	7.12 7.12 6.20 7.07	5.57 5.57 5.14 5.52	5.37 5.37 4.89 5.09	4.83 4.83 4.50 4.43	4.89 4.89 4.73 4.49
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	4.62 4.62 4.52 4.36 4.36	6.41 6.41 5.78 6.34 6.34	7.12 7.12 6.20 7.07 7.07	5.57 5.57 5.14 5.52 5.52	5.37 5.37 4.89 5.09 5.09	4.83 4.83 4.50 4.43 4.43	4.89 4.89 4.73 4.49 4.49
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)	January 5.01 5.01 4.94 4.94 4.94 4.92	5.38 5.38 5.25 5.25 5.25 5.25 5.25	5.04 5.04 4.84 4.88 4.88 4.88	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	4.62 4.62 4.52 4.36 4.36 4.32	6.41 6.41 5.78 6.34 6.34 5.72	7.12 7.12 6.20 7.07 7.07 6.15	5.57 5.57 5.14 5.52 5.52 5.10	5.37 5.37 4.89 5.09 5.09 4.82	4.83 4.83 4.50 4.43 4.43	4.89 4.89 4.73 4.49 4.49 4.43
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 4.92 4.92	5.38 5.38 5.25 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.43 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)	January 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	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 4.82	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 SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	January 5.01 5.01 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 5.58 5.58 5.58 5.58	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	January 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	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 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F) 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 7.93	May 4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 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)	January 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 5.58 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 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)	January 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 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 0.99	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin 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	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 1.81 1.81 0.95	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	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	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	January 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin 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	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 1.81 1.81 0.95	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	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	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	January 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	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 5.58 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 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min 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 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 5.58 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 6.11 0.43 0.43 0.23 0.05 0.05 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 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 4.94 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 0.71 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	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	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	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 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 4.92 4.92 9.34 1.53 1.53 1.06 0.06 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	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 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 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 0.04 0.04	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	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 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch 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	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	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 7.07	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	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	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 6.86	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement	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 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.30 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 9.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) Regulation NYCA Regulation Movement Real Time Market	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 0.27	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 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 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch 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) Regulation NYCA Regulation Movement Real Time Market 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 0.06 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 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 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	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min 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 West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.06 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 5.58 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23	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 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 1.96 1.96	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00 0.24	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	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	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 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 1.96 1.96 1.16	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK)	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	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 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 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 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 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)	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 5.58 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 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	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Spin West (ABCDE) 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 5.58 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 1.96 1.16 0.18 0.18 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin 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) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min 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 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 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 0.06 0.06 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 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 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 1.96 1.16 0.18 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin SENY (GHIJK) 10 Min Spin 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)	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 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 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	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.26 1.96 1.16 0.18 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 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 West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min 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 5.58 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 4.67 6.11 0.43 0.23 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 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 3.12	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 1.96 1.16 0.18 0.11 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch 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 West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.94 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 0.23 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 0.03 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 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 8.37	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 10.31	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.59 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 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 West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min 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 5.58 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 4.67 6.11 0.43 0.23 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 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 3.12	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 1.96 1.16 0.18 0.11 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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

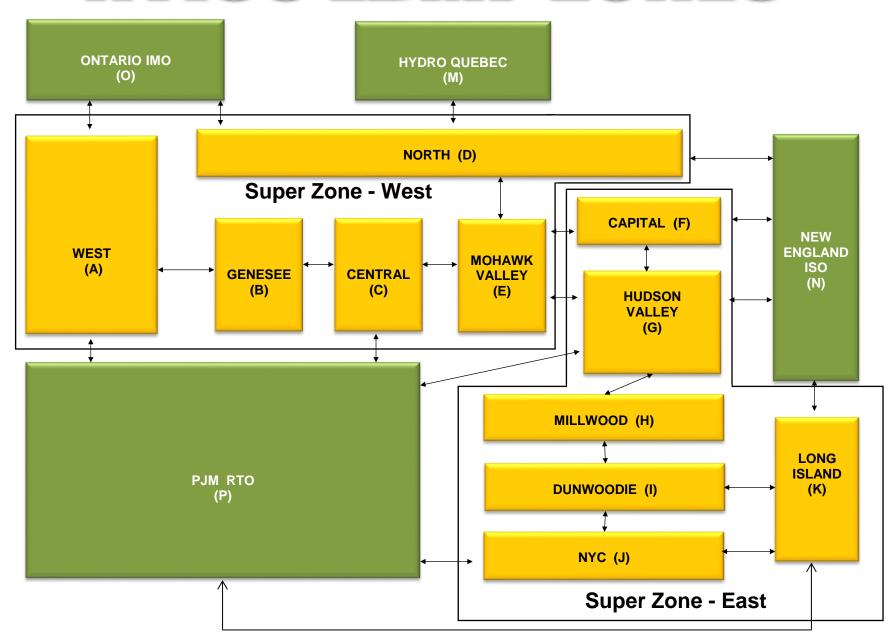








NYISO LBMP ZONES



Billing Codes for Chart C

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

Market Mitigation and Analysis Prepared: 6/7/2018 11:53 AM

The Mission of the New York Independent System Operator is to:

- Serve the public interest and
- Provide benefit to stakeholders 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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