Market Operations Report

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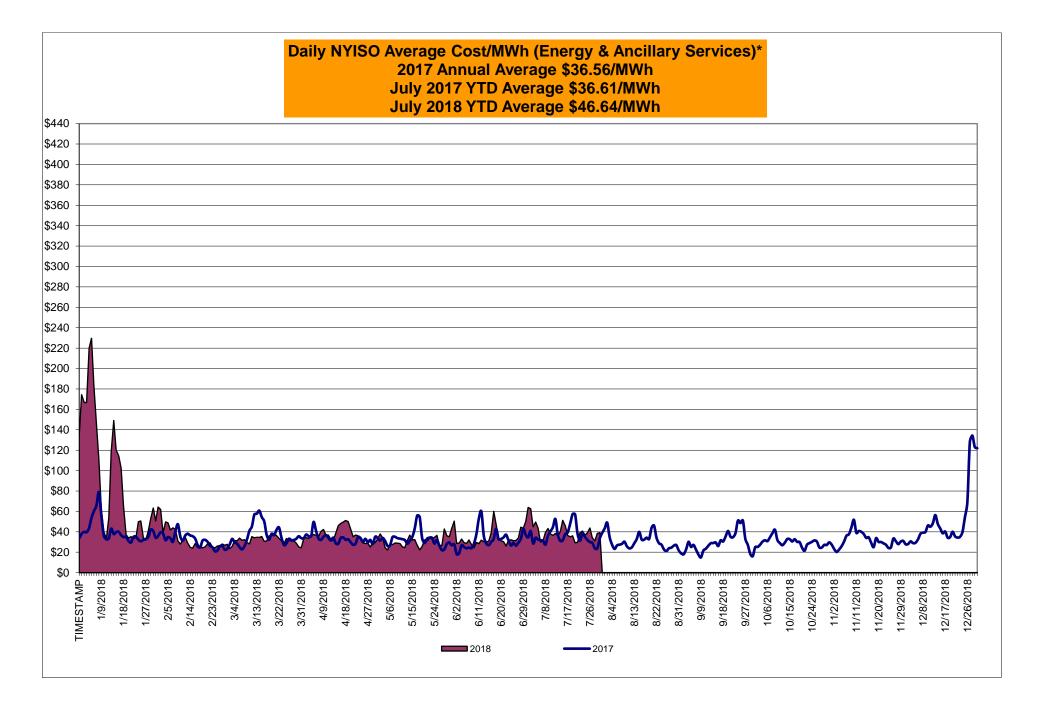
Business Issues Committee Meeting

August 13, 2018, Rensselaer, NY



Market Performance Highlights July 2018

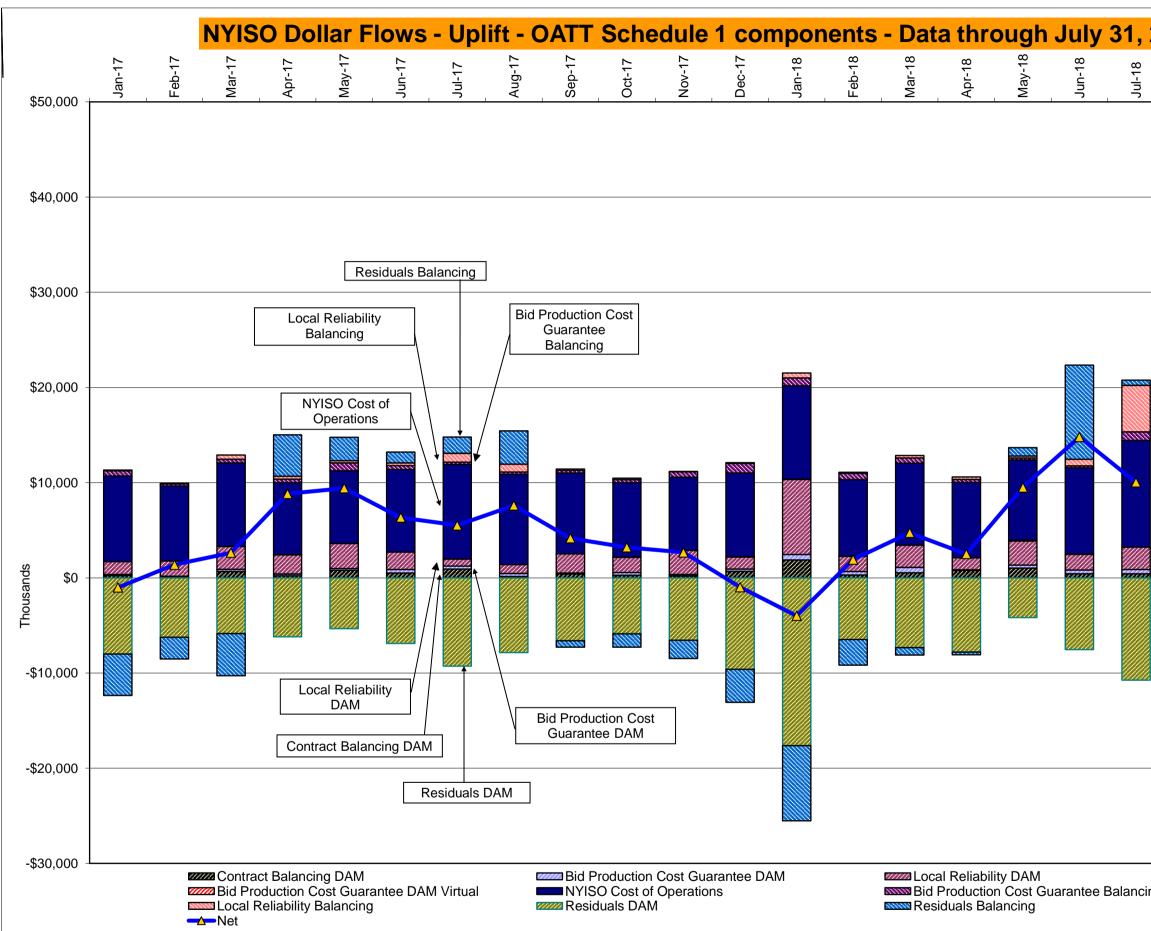
- LBMP for July is \$39.58/MWh; higher than \$32.53/MWh in June 2018 and \$35.84/MWh in July 2017.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to June.
- July 2018 average year-to-date monthly cost of \$46.64/MWh is a 28% increase from \$36.35/MWh in July 2017.
- Average daily sendout is 529 GWh/day in July; higher than 445 GWh/day in June 2018 and 498 GWh/day in July 2017.
- Natural gas were higher and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$2.87/MMBtu, up from \$2.45/MMBtu in June.
 - Natural gas prices are up 17.4% year-over-year.
 - Jet Kerosene Gulf Coast was \$15.05/MMBtu, down from \$15.47/MMBtu in June.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.81/MMBtu, down from \$15.32/MMBtu in June.
 - Distillate prices are up 40.0% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.13)/MWh; lower than \$0.30/MWh in June.
 - Local Reliability Share is \$0.44/MWh, higher than \$0.18/MWh in June.
 - Statewide Share is (\$0.57)/MWh, lower than \$0.12/MWh in June.
 - TSA \$ per NYC MWh is \$0.21/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than June.



* Excludes ICAP payments.

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

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



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.

- 4ng-18	Sep-18	Oct-18	Nov-18	Dec-18	
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NYISO Markets Transactions

<u>2018</u>	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	December
Day Ahead Market MWh	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073	13,983,384	-	ragaer		0010001		<u></u>
DAM LSE Internal LBMP Energy Sales	59%	57%	58%	60%	61%	61%	65%					
DAM ESE Internal EDMF Energy Sales	4%	3%	2%	2%	2%	1%	1%					
DAM Bilateral - Internal Bilaterals	29%	31%	32%	30%	2%	30%	26%					
DAM Bilateral - Importi/Non-LBMP Market Bilaterals	5%	5%	5%	5%	23 <i>%</i>	5%	4%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	3 <i>%</i> 2%	3 <i>%</i> 2%	2%	2%	1%	4 <i>%</i> 1%					
DAM Bilateral - Wheel Through Bilaterals	1%	2%	2%	2%	2%	2%	2%					
Balancing Energy Market MWh	-149,619	-299,377	-386,811	-72,862	-29,539	-354,112	-80,438					
	-149,019 -147%	-299,377	-128%	-208%	-458%	-354,112	-00,430					
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales	-147 %	24%	37%	-208 <i>%</i> 189%	-458 % 564%	29%	123%					
Balancing Energy Bilateral - Internal Bilaterals	9%	24% 5%	0%	-11%	29%	29% 5%	129%					
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	9 % 0%	5 % 0%	0 % 0%	0%	29%	5 % 0%	0%					
	0% 22%	0% 9%	0% 6%	34%	51%	3%	14%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-36%	-15%	-103%	-287%	-23%	-138%					
	-30%	-30%	-13%	-103%	-20170	-23%	-130%					
Transactions Summary	000/	500/	500/	000/	000/	040/	000/					
	63%	59%	59%	62%	63%	61%	66%					
Internal Bilaterals	30%	32%	33%	30%	29%	31%	27%					
Import Bilaterals	5%	5%	6%	5%	5%	5%	4%					
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%					
Wheels Through	1%	1%	1%	1%	1%	2%	1%					
Market Share of Total Load												
Day Ahead Market	101.0%	102.4%	102.9%	100.6%	100.2%	102.6%	100.5%					
Balancing Energy +	-1.0%	-2.4%	-2.9%	-0.6%	-0.2%	-2.6%	-0.5%					
Total MWH	15,004,132	12,344,477	13,134,575	12,085,824	12,691,534	13,629,272						
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529					
2017	Januarv	Februarv	March	April	Mav	June	Julv	August	September	October	November	December
2017 Day Abead Market MWb	<u>January</u>	February	<u>March</u>	<u>April</u> 12.061.475	<u>May</u>	<u>June</u>	<u>July</u> 16 505 801	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695	13,252,368	13,042,826	14,829,403
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	14,135,019 57%	12,565,206 57%	13,983,865 55%	12,061,475 54%	12,966,981 58%	14,406,180 60%	16,505,801 62%	15,948,927 61%	14,100,695 57%	13,252,368 55%	13,042,826 53%	14,829,403 55%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	14,135,019 57% 2%	12,565,206 57% 2%	13,983,865 55% 1%	12,061,475 54% 1%	12,966,981 58% 1%	14,406,180 60% 1%	16,505,801 62% 1%	15,948,927 61% 1%	14,100,695 57% 1%	13,252,368 55% 2%	13,042,826 53% 3%	14,829,403 55% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	14,135,019 57% 2% 32%	12,565,206 57% 2% 32%	13,983,865 55% 1% 34%	12,061,475 54% 1% 35%	12,966,981 58% 1% 33%	14,406,180 60% 1% 31%	16,505,801 62% 1% 29%	15,948,927 61% 1% 29%	14,100,695 57% 1% 32%	13,252,368 55% 2% 34%	13,042,826 53% 3% 34%	14,829,403 55% 5% 32%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5%	12,565,206 57% 2% 32% 5%	13,983,865 55% 1% 34% 5%	12,061,475 54% 1% 35% 6%	12,966,981 58% 1% 33% 4%	14,406,180 60% 1% 31% 5%	16,505,801 62% 1% 29% 4%	15,948,927 61% 1% 29% 5%	14,100,695 57% 1% 32% 5%	13,252,368 55% 2% 34% 5%	13,042,826 53% 3% 34% 5%	14,829,403 55% 5% 32% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2%	12,565,206 57% 2% 32% 5% 2%	13,983,865 55% 1% 34% 5% 2%	12,061,475 54% 1% 35% 6% 2%	12,966,981 58% 1% 33% 4% 2%	14,406,180 60% 1% 31% 5% 2%	16,505,801 62% 1% 29% 4% 1%	15,948,927 61% 1% 29% 5% 2%	14,100,695 57% 1% 32% 5% 2%	13,252,368 55% 2% 34% 5% 2%	13,042,826 53% 3% 34% 5% 2%	14,829,403 55% 5% 32% 5% 2%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2%	12,966,981 58% 1% 33% 4% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2%	16,505,801 62% 1% 29% 4% 1% 3%	15,948,927 61% 1% 29% 5% 2% 3%	14,100,695 57% 1% 32% 5% 2% 4%	13,252,368 55% 2% 34% 5% 2% 2% 2%	13,042,826 53% 3% 34% 5% 2% 3%	14,829,403 55% 5% 32% 5% 2% 2%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWh	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448	12,565,206 57% 2% 32% 5% 2% 2% 2% -407,284	13,983,865 55% 1% 34% 5% 2% 2% 2% -509,053	12,061,475 54% 1% 35% 6% 2% 2% 2% -466,426	12,966,981 58% 1% 33% 4% 2% 2% -666,048	14,406,180 60% 1% 31% 5% 2% 2% 2% -564,312	16,505,801 62% 1% 29% 4% 1% 3% -747,473	15,948,927 61% 1% 29% 5% 2% 3% -853,898	14,100,695 57% 1% 32% 5% 2% 4% -633,990	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721	13,042,826 53% 3% 34% 5% 2% 3% -410,072	14,829,403 55% 5% 32% 5% 2% 2% -254,003
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy Sales	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy External TC LBMP Energy Sales	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448 -157% 64%	12,565,206 57% 2% 32% 5% 2% 2% 2% -407,284 -132% 39%	13,983,865 55% 1% 34% 5% 2% 2% 2% -509,053 -148% 44%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28%	14,406,180 60% 1% 31% 5% 2% 2% 2% -564,312 -114% 23%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12%	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721 -102% 26%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25%
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Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448 -157% 64% 15% 0%	12,565,206 57% 2% 32% 5% 2% 2% 2% 2% -407,284 -132% 39% 8% 4%	13,983,865 55% 1% 34% 5% 2% 2% 2% -509,053 -148% 44% 12% 0%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0%	12,966,981 58% 1% 33% 4% 2% 2% 2% -666,048 -120% 28% 1% 0%	14,406,180 60% 1% 31% 5% 2% 2% 2% -564,312 -114% 23% 4% 0%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0%	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721 -102% 26% 5% 0%	13,042,826 53% 3% 34% 5% 2% 2% 3% -410,072 -108% 45% 5% 0%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1%	15,948,927 61% 1% 29% 5% 2% 2% 3% -853,898 -87% 13% 2% 0% 1%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4%	13,042,826 53% 3% 34% 5% 2% 2% 3% -410,072 -108% 45% 5% 0% 7%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448 -157% 64% 15% 0%	12,565,206 57% 2% 32% 5% 2% 2% 2% 2% -407,284 -132% 39% 8% 4%	13,983,865 55% 1% 34% 5% 2% 2% 2% -509,053 -148% 44% 12% 0%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0%	12,966,981 58% 1% 33% 4% 2% 2% 2% -666,048 -120% 28% 1% 0%	14,406,180 60% 1% 31% 5% 2% 2% 2% -564,312 -114% 23% 4% 0%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0%	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721 -102% 26% 5% 0%	13,042,826 53% 3% 34% 5% 2% 2% 3% -410,072 -108% 45% 5% 0%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0%
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Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Balancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448 -157% 64% 15% 0% 10% -32%	12,565,206 57% 2% 32% 5% 2% 2% 2% 2% -407,284 -132% 39% 8% 4% 7% -26%	13,983,865 55% 1% 34% 5% 2% 2% 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% 2% -666,048 -120% 28% 1% 0% 3% -12%	14,406,180 60% 1% 31% 5% 2% 2% 2% -564,312 -114% 23% 4% 0% 3% -16%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40%	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721 -102% 26% 5% 0% 4% -33%	13,042,826 53% 3% 34% 5% 2% 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.

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

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

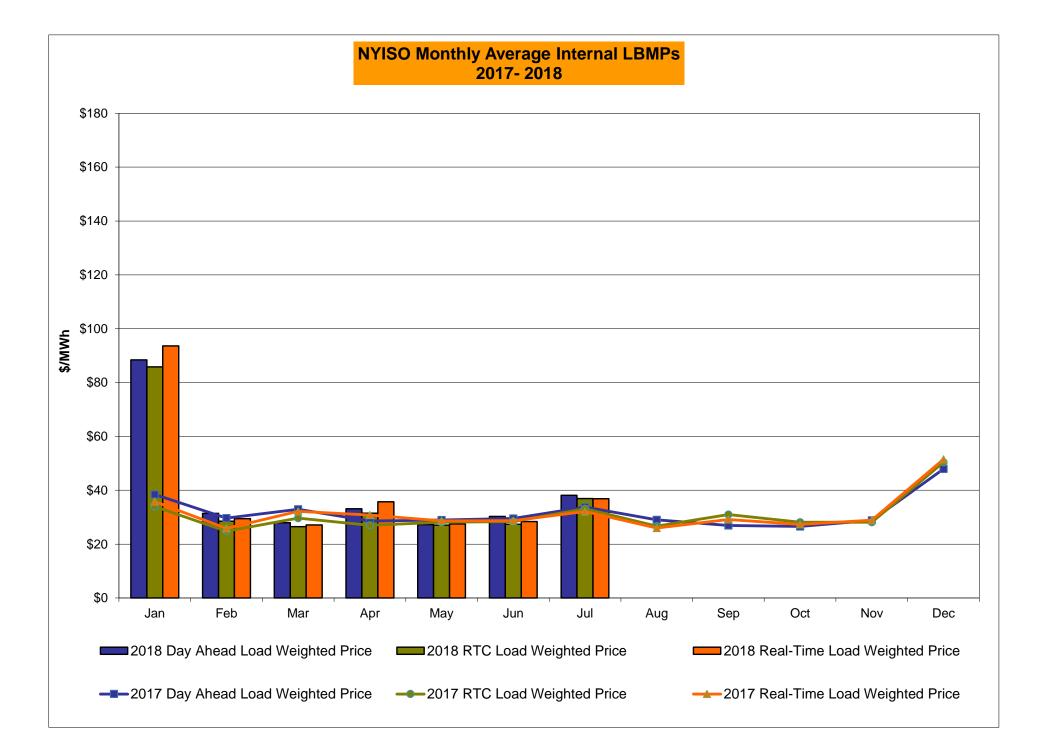
NYISO Markets 2018 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	June	July	August September	October November December
DAY AHEAD LBMP								-	
Price *	\$83.53	\$30.37	\$27.37	\$32.40	\$25.97	\$28.41	\$35.73		
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25		
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26	\$30.27	\$38.14		
RTC LBMP									
Price *	\$81.65	\$27.73	\$25.99	\$30.80	\$25.40	\$26.06	\$34.65		
Standard Deviation	\$60.83	\$11.96	\$8.99	\$14.30	\$20.37	\$12.78	\$17.44		
Load Weighted Price **	\$85.85	\$28.54	\$26.46	\$31.47	\$27.08	\$27.35	\$36.93		
REAL TIME LBMP									
Price *	\$87.94	\$28.50	\$26.49	\$34.53	\$25.57	\$26.31	\$34.34		
Standard Deviation	\$87.41	\$17.36	\$12.25	\$26.57	\$23.49	\$24.34	\$18.44		
Load Weighted Price **	\$93.59	\$29.49	\$27.09	\$35.72	\$27.47	\$28.38	\$36.84		
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529		

NYISO Markets 2017 Energy Statistics

	<u>January</u>	February	March	April	May	<u>June</u>	July	August S	<u>September</u>	October	November I	<u>December</u>
DAY AHEAD LBMP												
Price *	\$37.22	\$28.84	\$32.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	\$25.05	\$25.49	\$27.88	\$45.46
Standard Deviation	\$13.20	\$7.97	\$11.95	\$7.66	\$9.47	\$12.37	\$13.51	\$10.60	\$12.09	\$8.53	\$9.87	\$31.56
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95	\$26.57	\$28.83	\$47.90
RTC LBMP												
Price *	\$32.87	\$24.09	\$28.86	\$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.

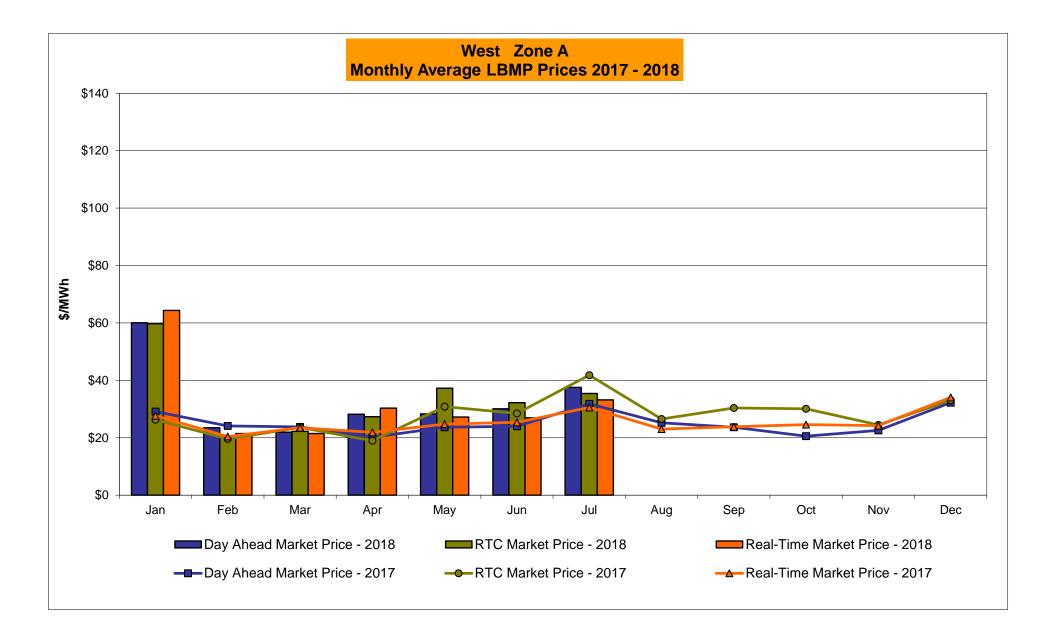


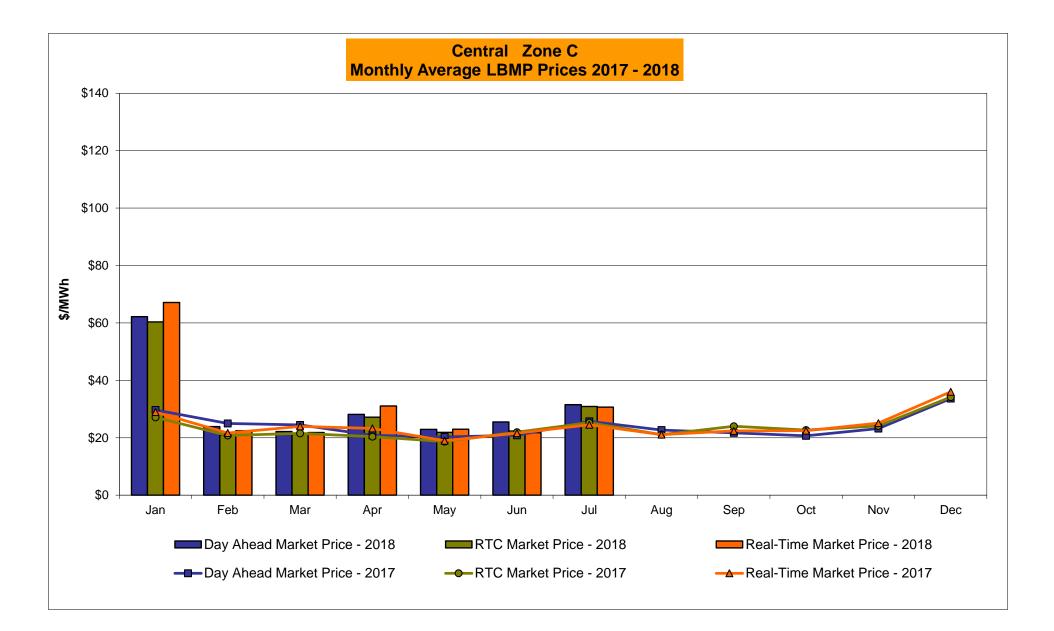
July 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

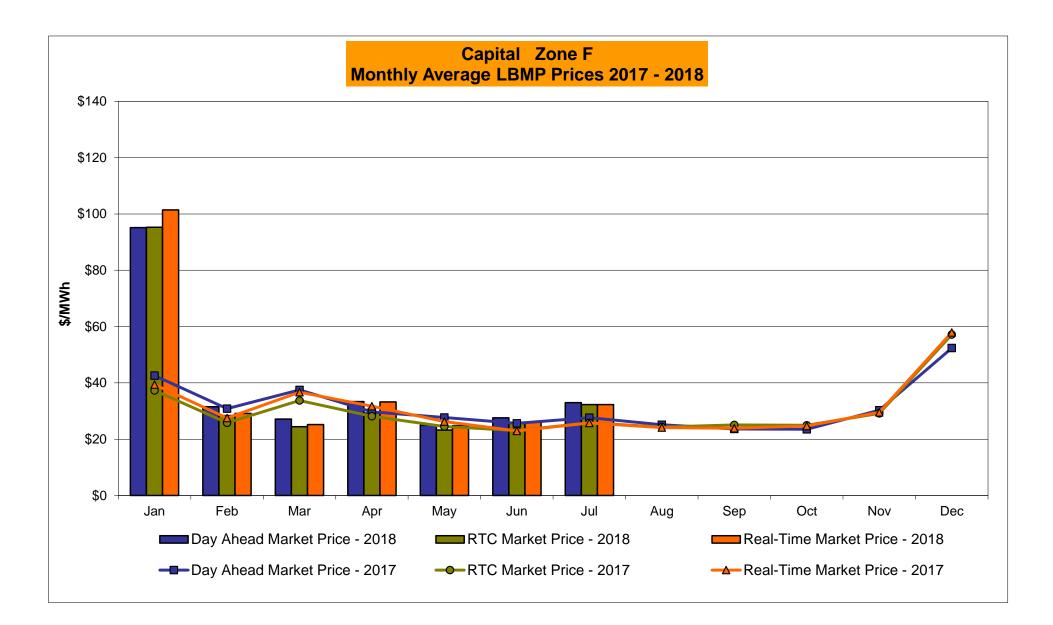
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD D	UNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	<u>Zone I</u>	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	37.55	30.24	27.30	31.54	31.45	32.98	33.87	34.01	34.01	36.94	41.83
Standard Deviation	29.69	12.08	9.84	13.92	12.89	12.11	13.01	13.09	13.05	14.25	19.31
RTC LBMP											
Unweighted Price *	35.43	29.80	23.65	30.88	30.43	32.29	32.81	32.98	33.07	35.39	42.28
Standard Deviation	31.91	13.65	43.61	14.59	15.14	13.77	14.29	14.35	14.35	15.95	38.23
REAL TIME LBMP											
Unweighted Price *	33.20	29.88	24.24	30.69	30.46	32.26	32.79	32.97	33.15	35.71	40.50
Standard Deviation	24.88	15.40	34.75	15.80	16.29	15.72	16.22	16.28	16.45	17.94	37.71

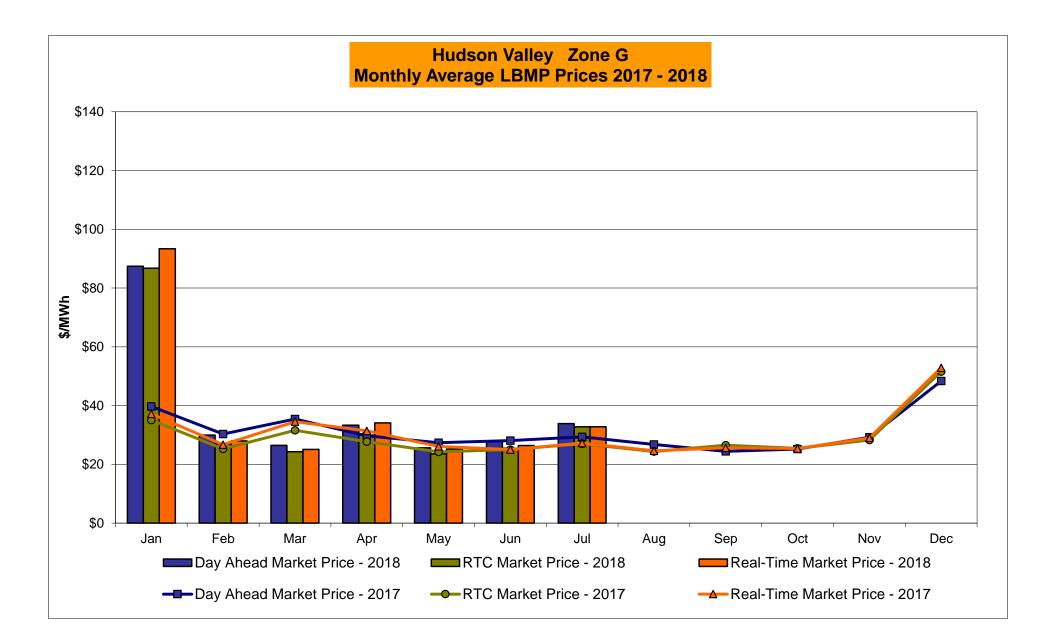
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>
	<u>Zone O</u>	Zone M	Zone M	Zone P	Zone N	Line	Line	Line	Line	Line	Line
DAY AHEAD LBMP											
Unweighted Price *	27.24	27.06	27.06	32.68	33.14	37.35	35.51	36.83	35.04	35.45	26.42
Standard Deviation	8.24	10.74	10.74	13.77	12.30	15.48	12.64	16.25	12.26	13.16	9.40
RTC LBMP											
Unweighted Price *	27.01	21.92	21.92	31.04	33.78	36.42	33.96	34.26	30.75	33.82	23.08
Standard Deviation	12.82	45.47	45.47	13.36	23.21	26.73	28.99	24.15	32.26	14.23	43.48
REAL TIME LBMP											
Unweighted Price *	27.48	22.72	22.72	30.56	33.00	35.54	32.15	33.63	26.85	34.00	21.16
Standard Deviation	16.56	36.65	36.65	15.59	18.64	24.20	32.85	21.42	44.65	16.43	33.83

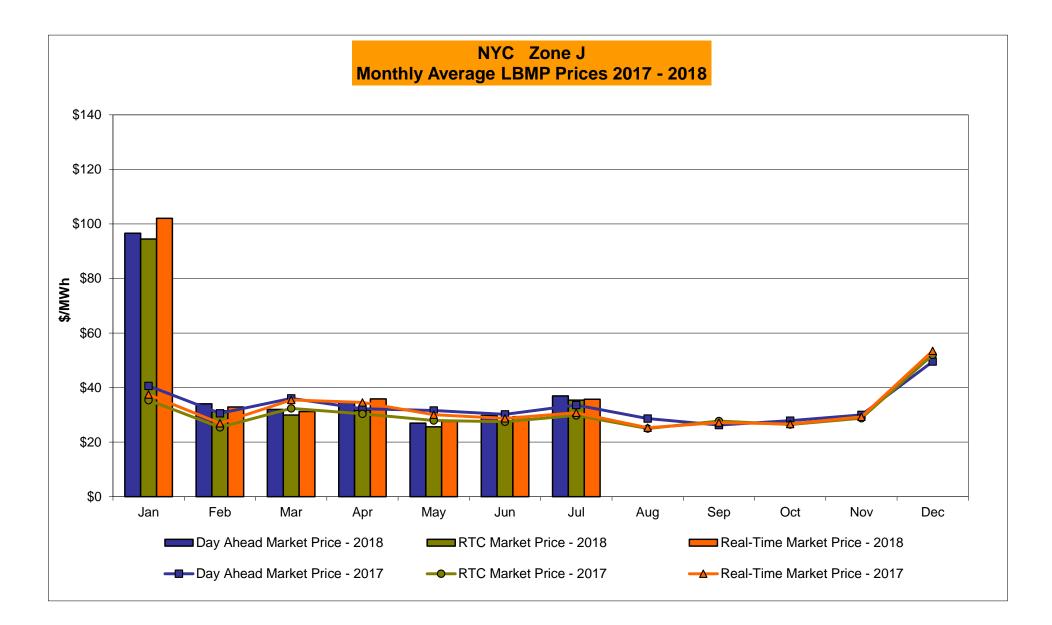
* Straight LBMP averages

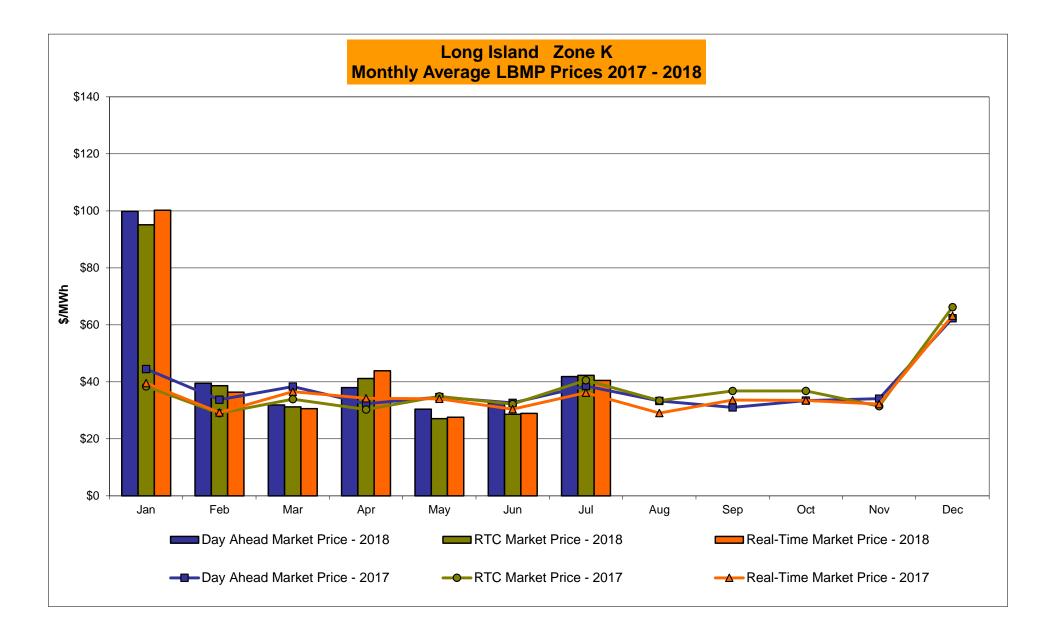


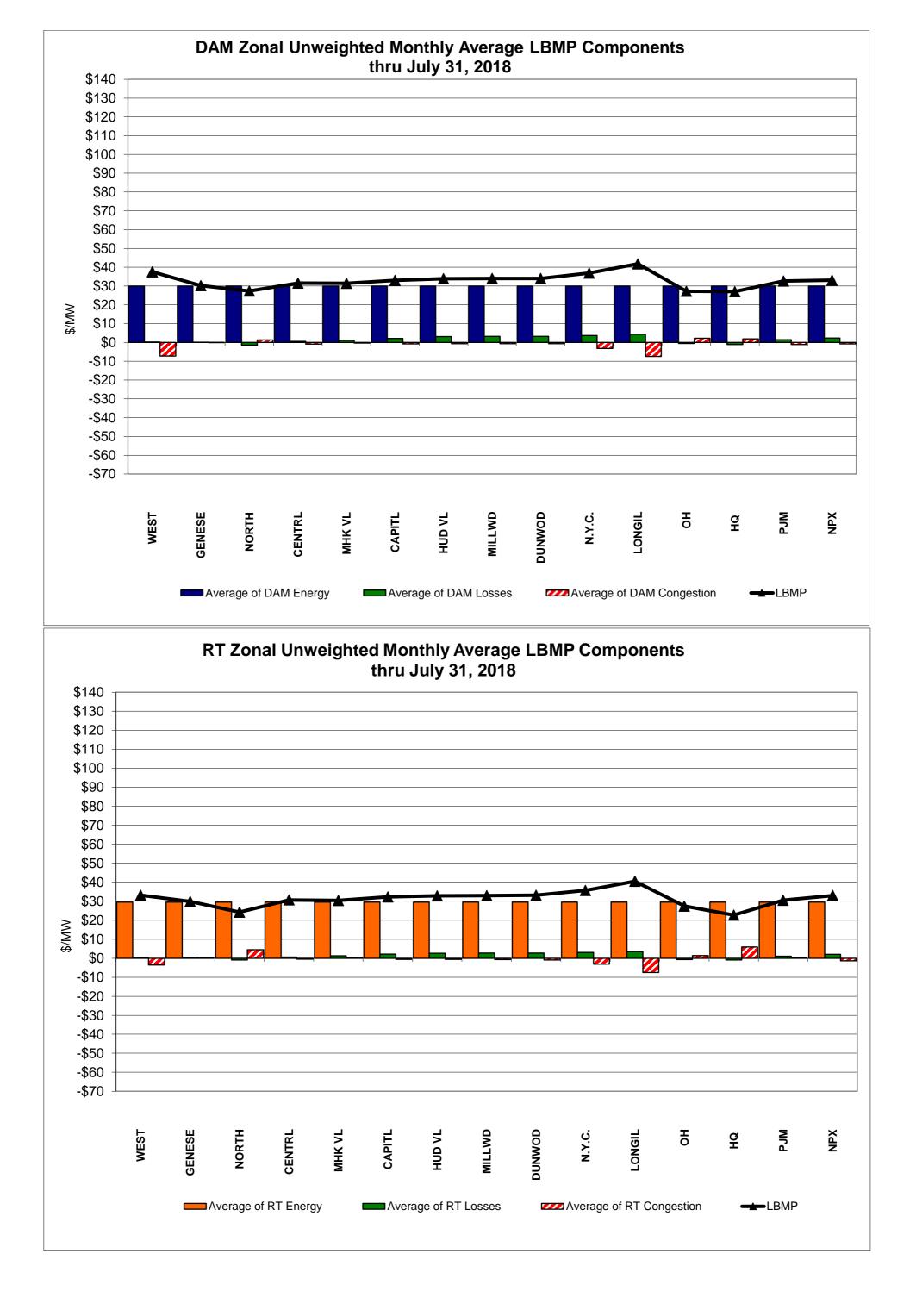




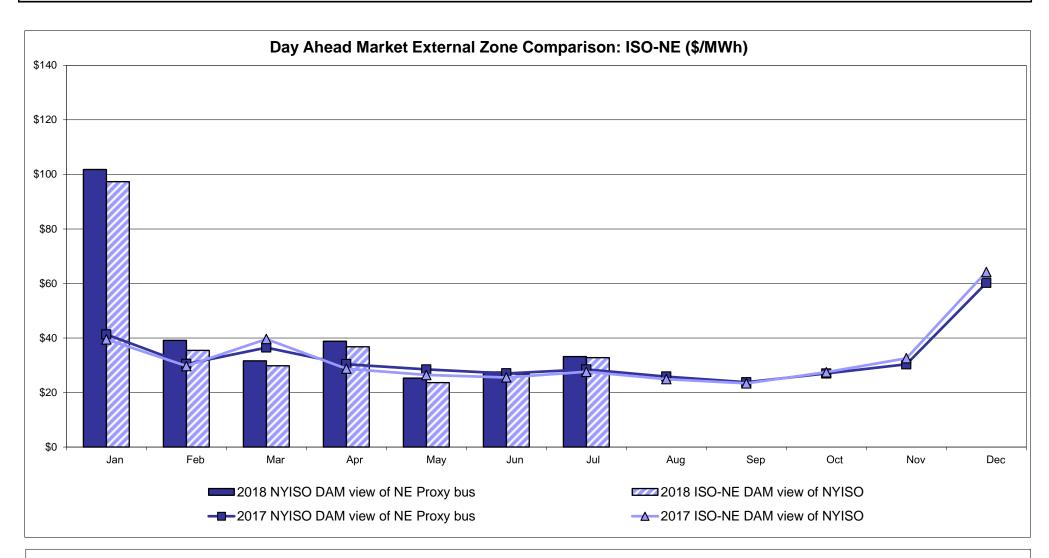


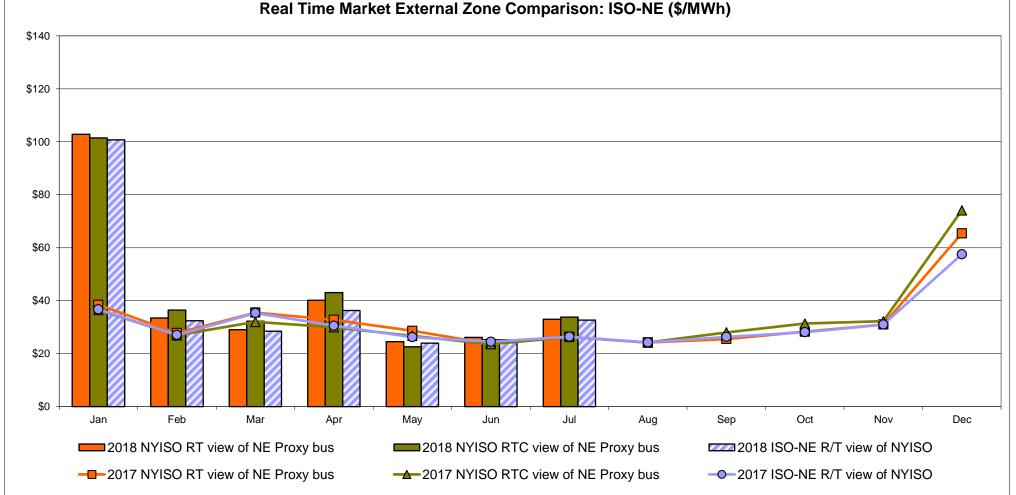




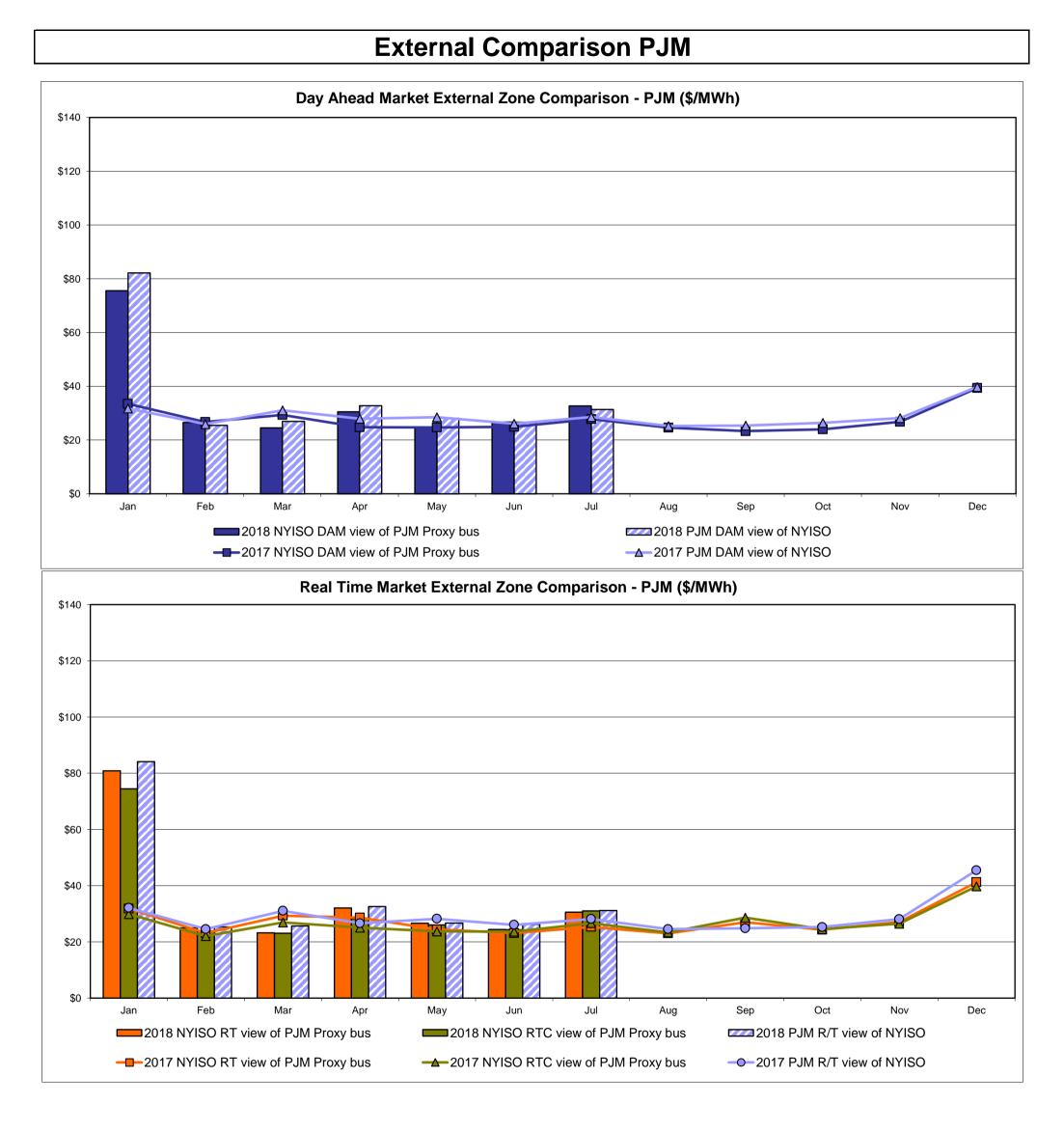


External Comparison ISO-New England



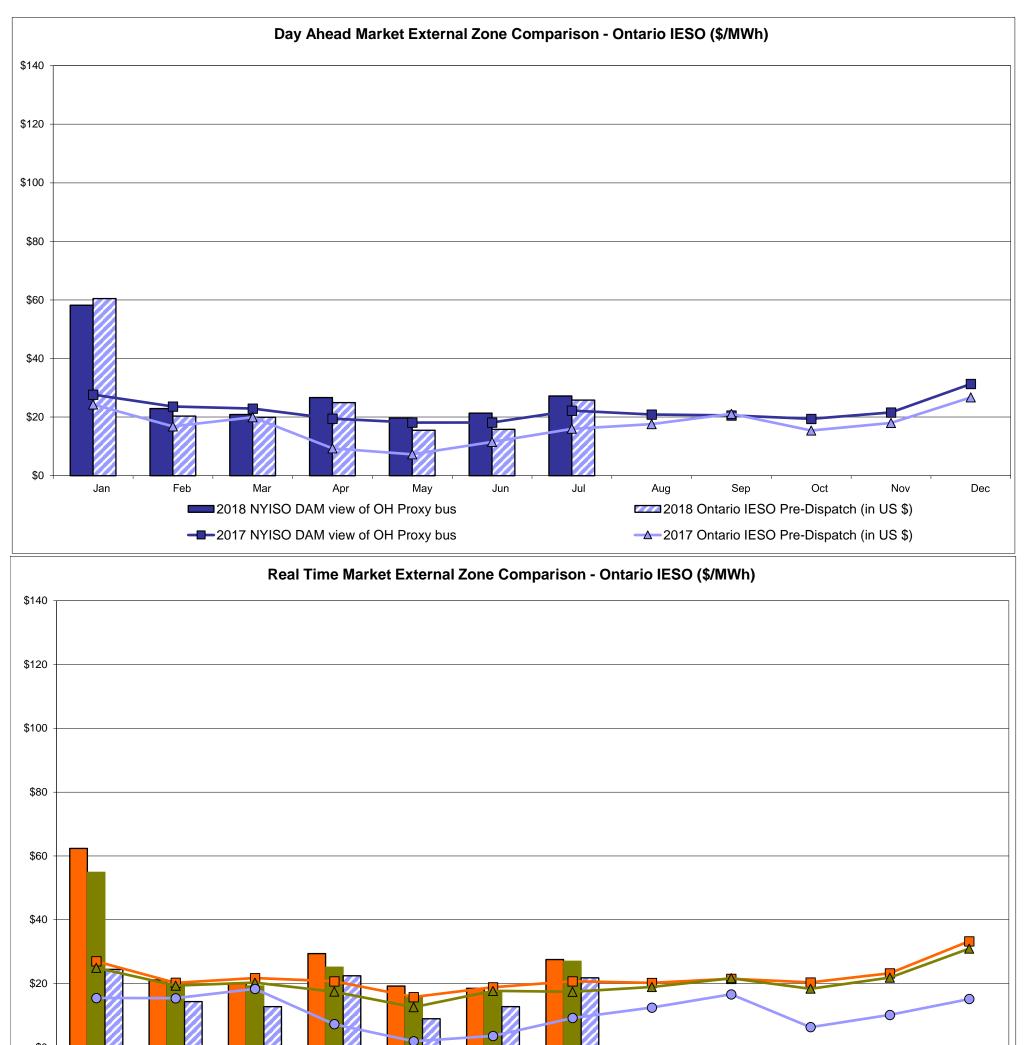


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Market Mitigation and Analysis Prepared: 8/7/2018 4:09 PM

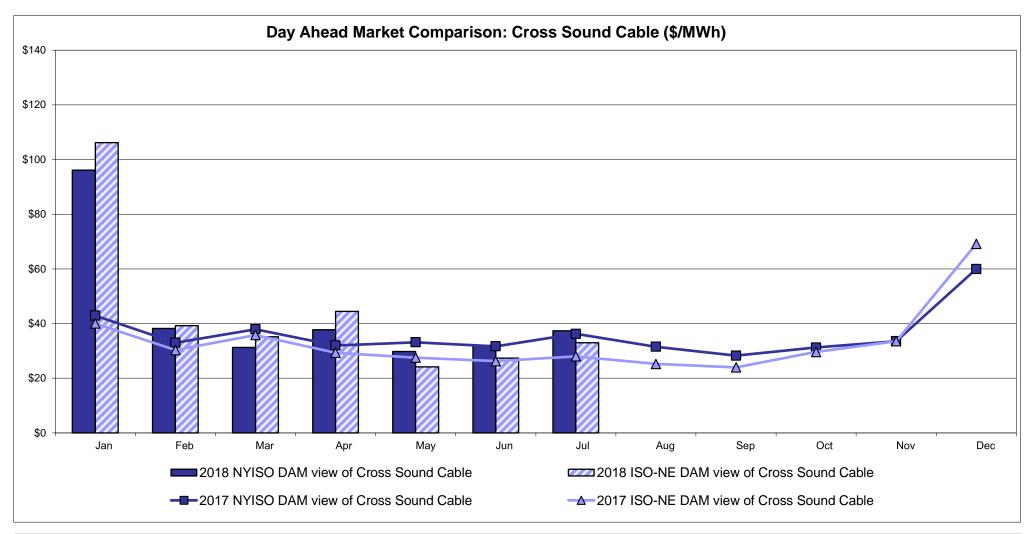
External Comparison Ontario IESO



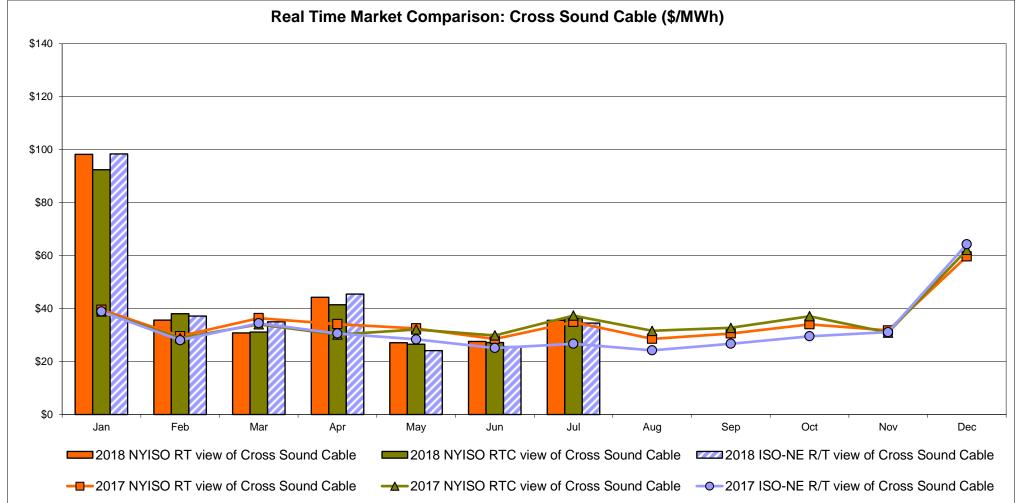
\$0 +	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2 01	8 NYISO RT v	riew of OH Pro	oxy bus	2018	NYISO RTC	view of OH P	Proxy bus	2018	Ontario IESC	HOEP (in US	S \$)
	 201	7 NYISO RT v	riew of OH Pro	oxy bus	 2017	NYISO RTC	view of OH P	Proxy bus	-0-2017	Ontario IESC	HOEP (in US	S \$)

Notes: Exchange factor used for July 2018 was 0.761440645701668 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

> Market Mitigation and Analysis Prepared: 8/7/2018 4:09 PM



External Controllable Line: Cross Sound Cable (New England)

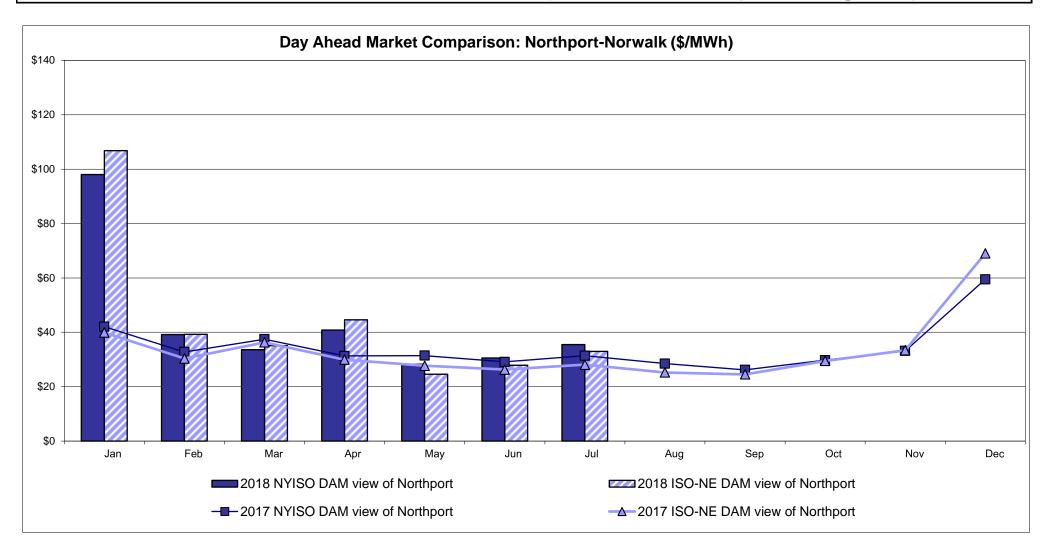


Note:

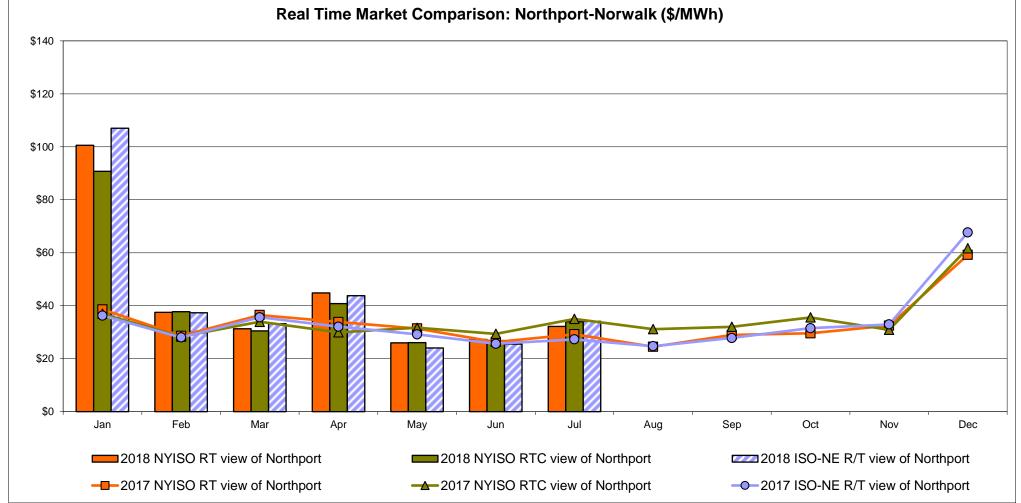
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)



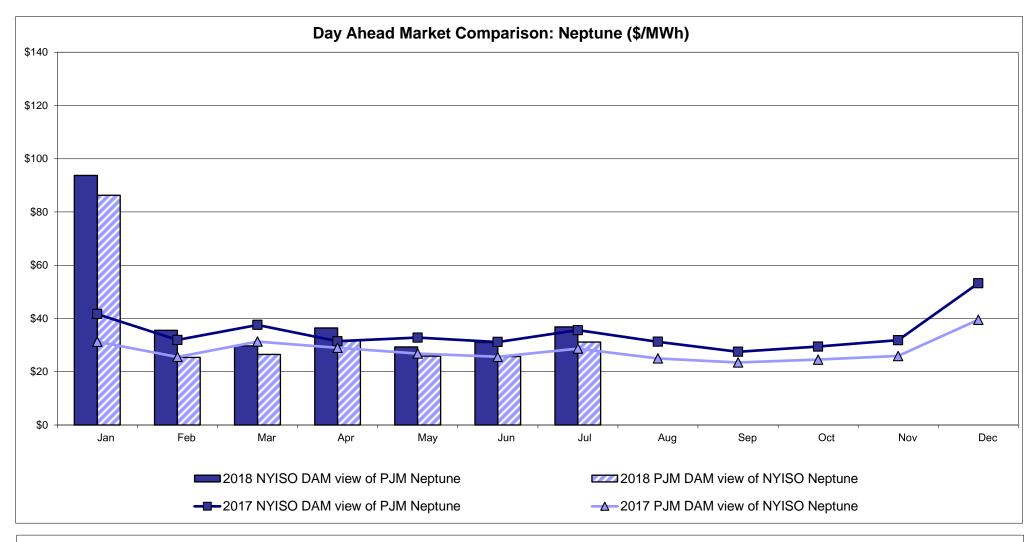
Note:

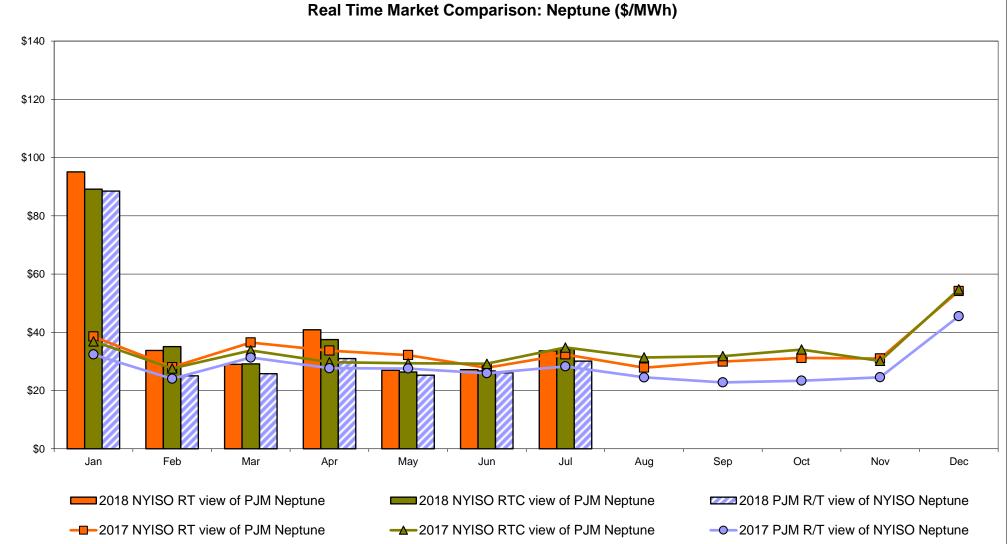
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

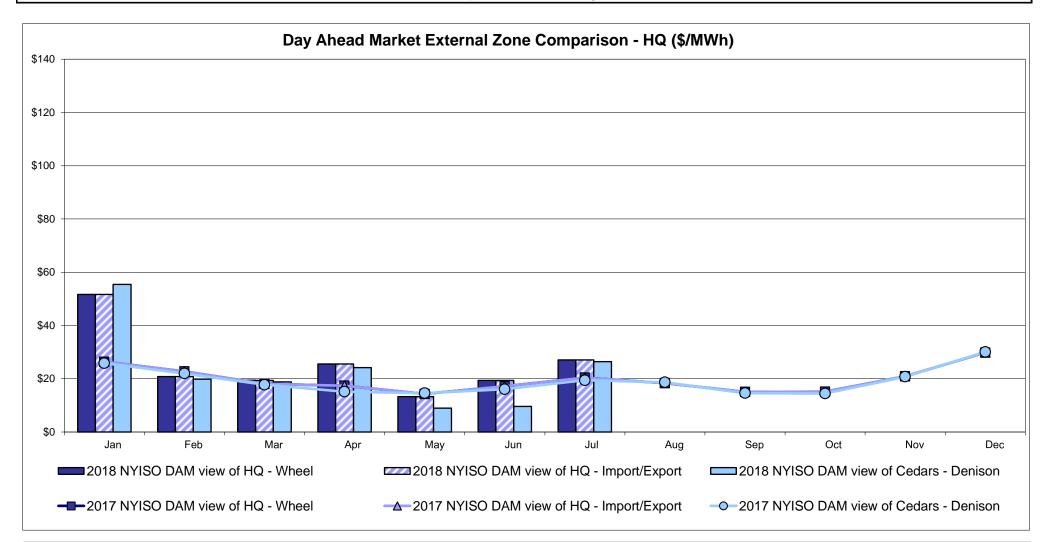
The DAM and R/T prices at the 1385 interface are used for NYISO.

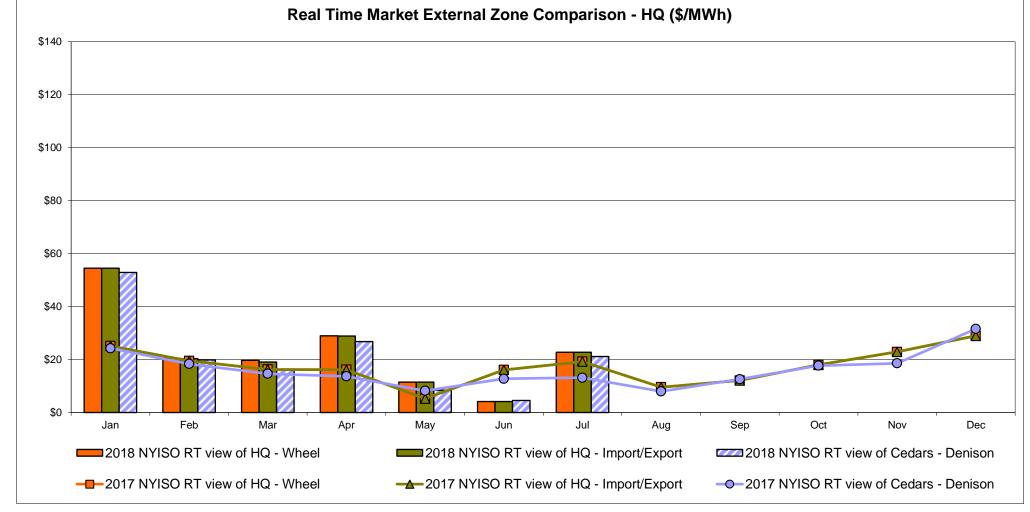






External Comparison Hydro-Quebec

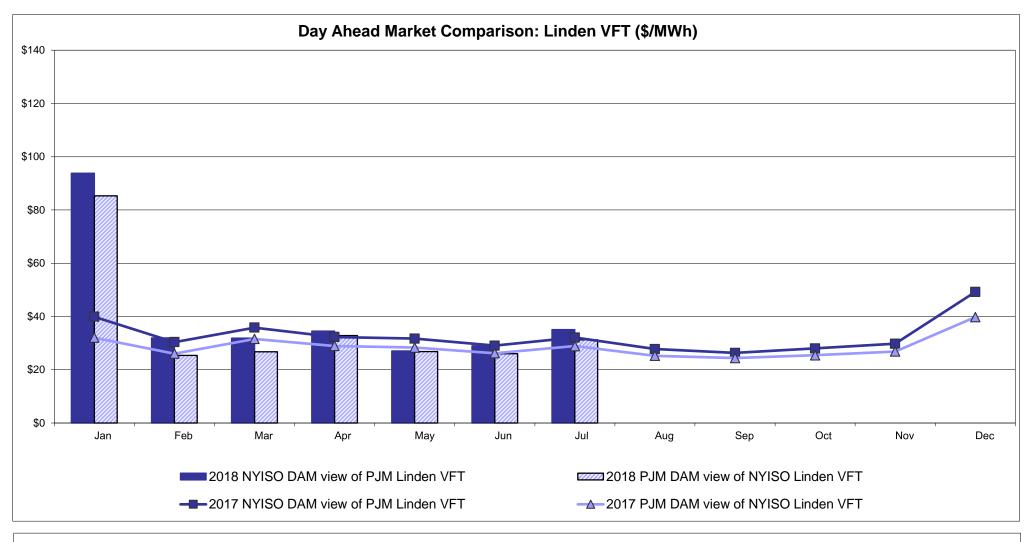


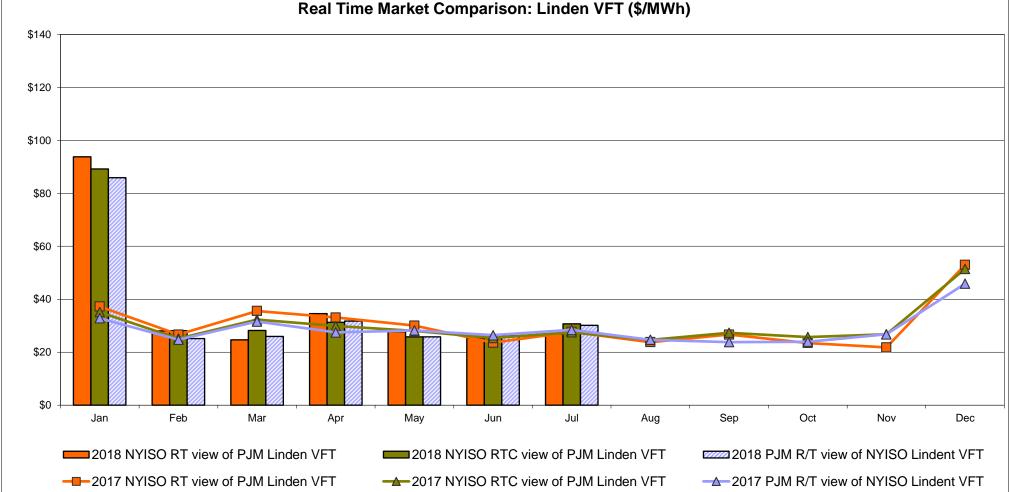


Note:

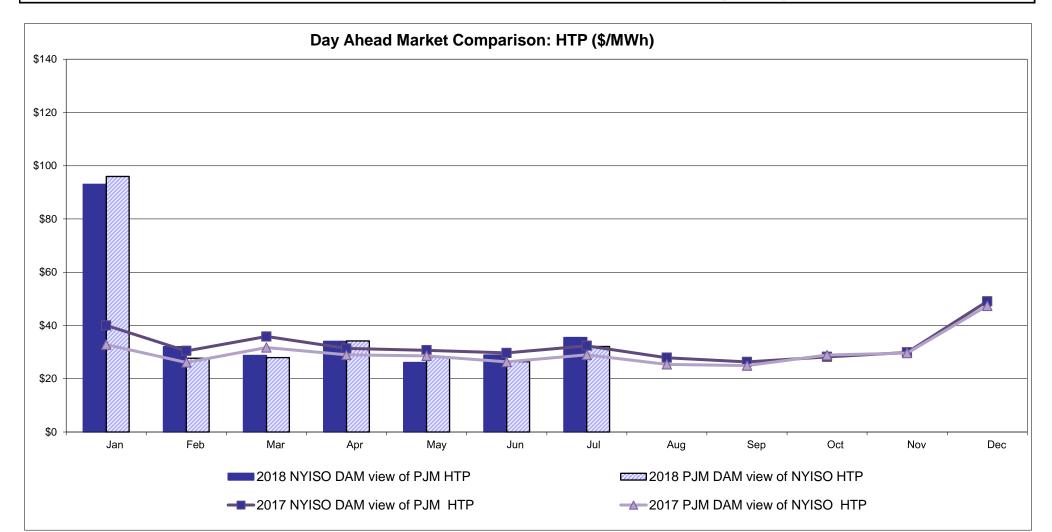
Hydro-Quebec Prices are unavailable.

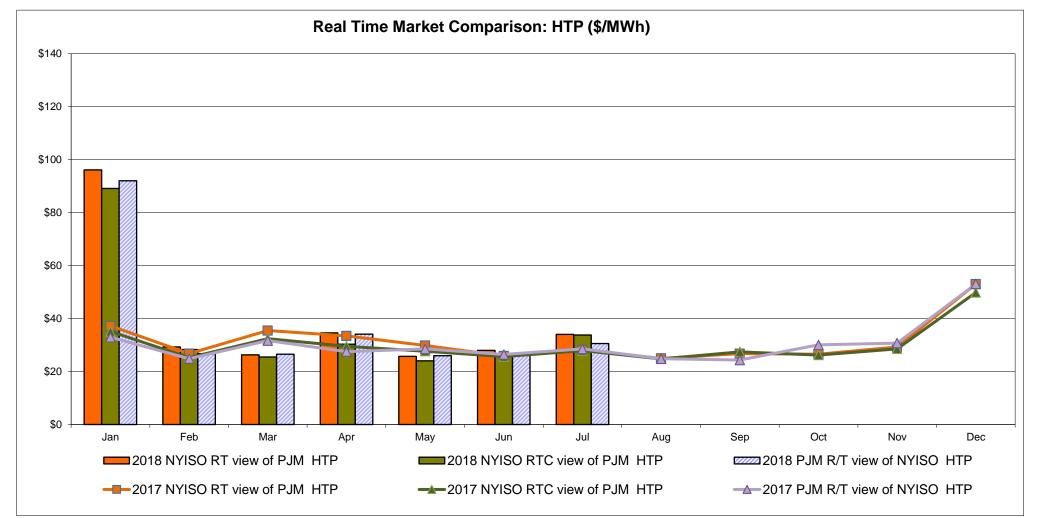






External Controllable Line: Hudson (PJM)

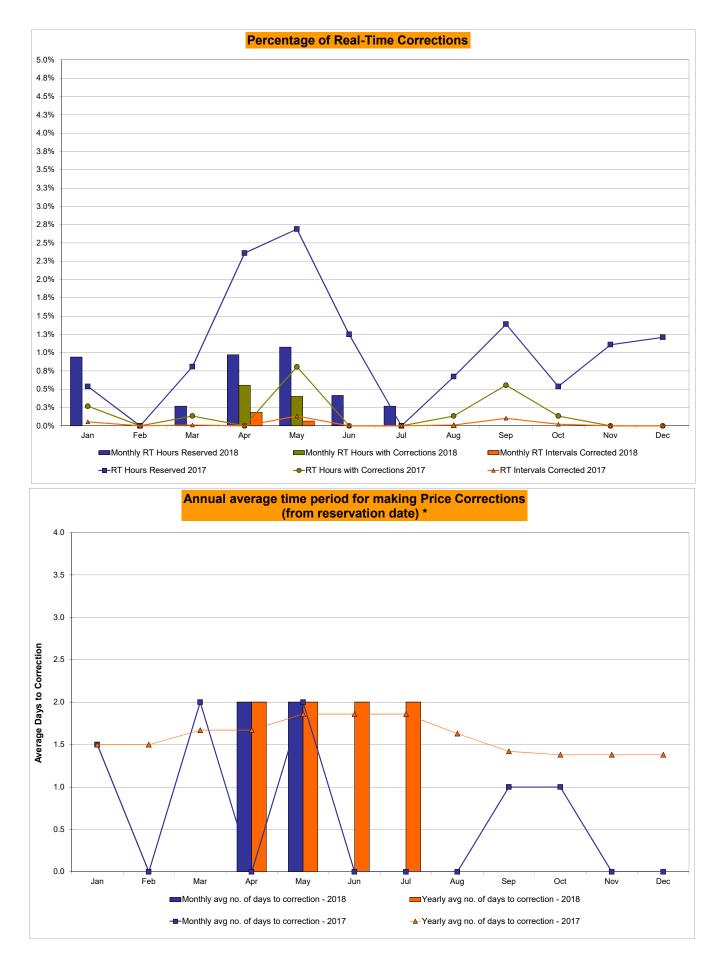




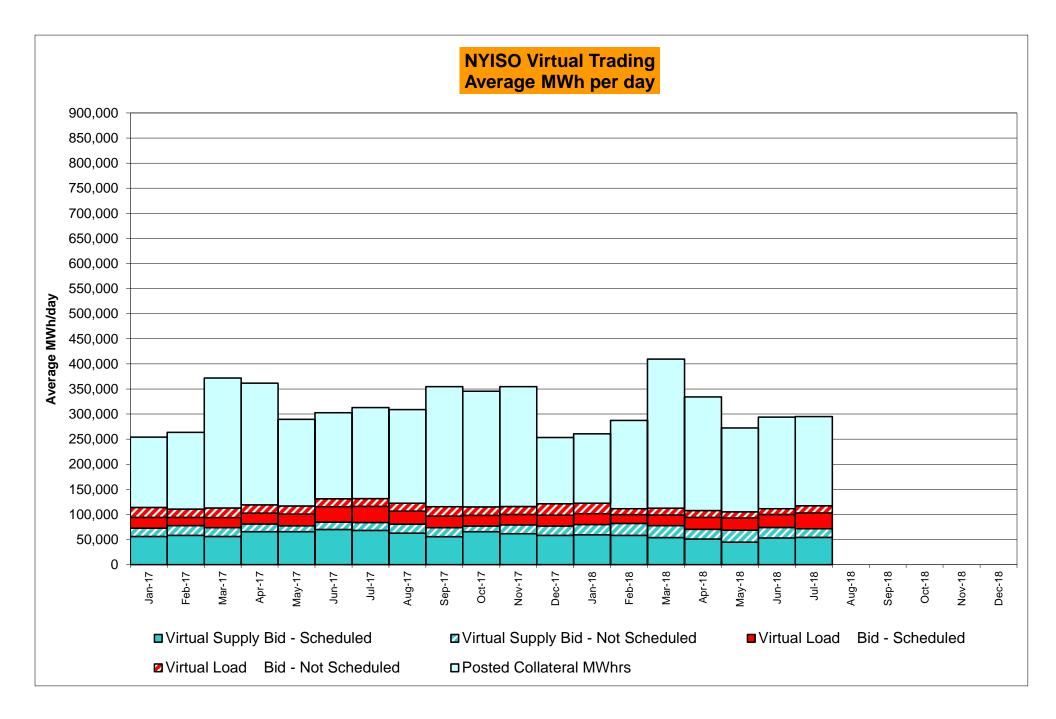
NYISO Real Time Price Correction Statistics

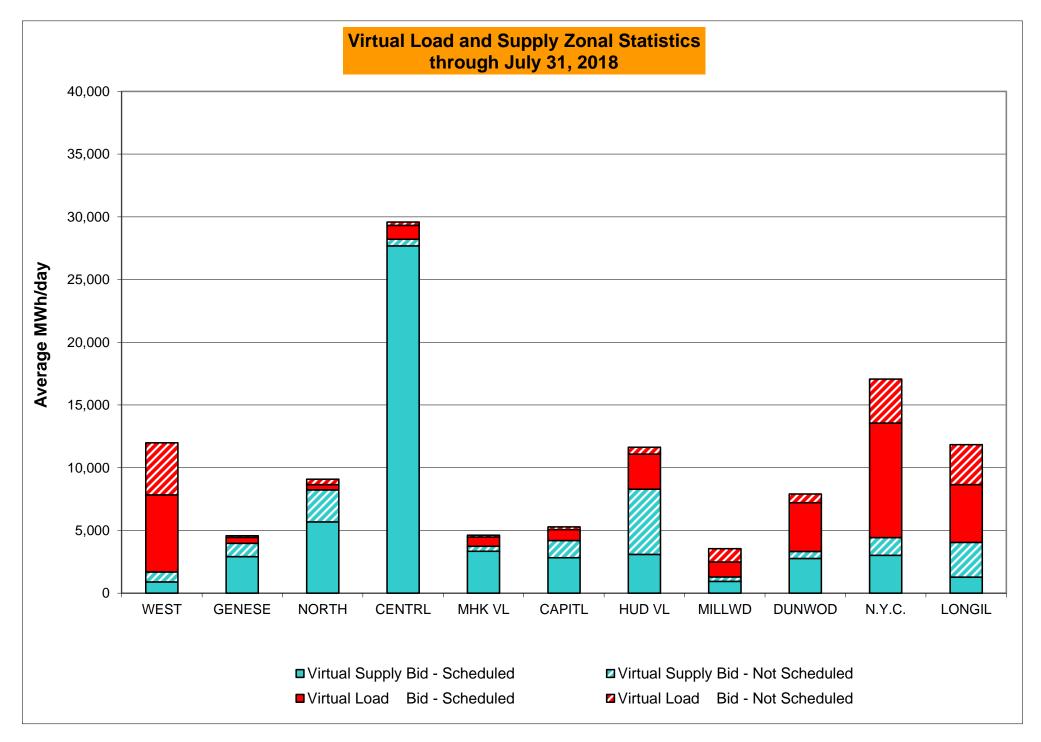
2018 Hour Corrections		<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Number of hours with corrections	in the month	0	0	0	4	3	0	0					
Number of hours	in the month	744	672	743	720	744	720	744					
% of hours with corrections	in the month	0.00%	0.00%	0.00%	0.56%	0.40%	0.00%	0.00%					
% of hours with corrections	year-to-date	0.00%	0.00%	0.00%	0.14%	0.19%	0.16%	0.14%					
Interval Corrections													
Number of intervals corrected	in the month	0	0	0	16	6	0	0					
Number of intervals	in the month	9,021	8,112	9,002	8,717	9,033	8,723	9,021					
% of intervals corrected	in the month	0.00%	0.00%	0.00%	0.18%	0.07%	0.00%	0.00%					
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%	0.05%	0.05%	0.04%	0.04%					
Hours Reserved													
Number of hours reserved	in the month	7	0	2	7	8	3	2					
Number of hours	in the month	744	672	743	720	744	720	744					
% of hours reserved	in the month	0.94%	0.00%	0.27%	0.97%	1.08%	0.42%	0.27%					
% of hours reserved	year-to-date	0.94%	0.49%	0.42%	0.56%	0.66%	0.62%	0.57%					
Days to Correction *	•												
Avg. number of days to correction	in the month	0.00	0.00	0.00	2.00	2.00	0.00	0.00					
Avg. number of days to correction	year-to-date	0.00	0.00	0.00	2.00	2.00	2.00	2.00					
Days Without Corrections													
Days without corrections	in the month	31	28	31	28	28	30	31					
Days without corrections	year-to-date	31	59	90	118	146	176	207					
2017		January	February	March	April	May	June	July	Auaust	September	October	November	December
2017 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
	in the month	<u>January</u> 2	<u>February</u> 0	<u>March</u> 1	<u>April</u> 0	<u>Мау</u> 6	<u>June</u> 0	<u>July</u> 0	<u>August</u> 1	<u>September</u> 4	<u>October</u> 1	<u>November</u> 0	December 0
Hour Corrections	in the month in the month												
Hour Corrections Number of hours with corrections		2	0	1	0	6	0	0	1	4	1	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	2 744	0 672	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	in the month in the month	2 744 0.27%	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720 0.56%	1 744 0.13%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	2 744 0.27%	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720 0.56%	1 744 0.13%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections 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% 0.14%	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	in the month in the month year-to-date in the month	2 744 0.27% 0.27% 5	0 672 0.00% 0.14%	1 743 0.13% 0.14%	0 720 0.00% 0.10%	6 744 0.81% <u>0.25%</u> 12	0 720 0.00% 0.21% 0	0 744 0.00% <u>0.18%</u> 0	1 744 0.13% <u>0.17%</u> 1	4 720 0.56% 0.21% 9	1 744 0.13% 0.21% 2	0 721 0.00% 0.19% 0	0 744 0.00% 0.17% 0
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections <u>Interval Corrections</u> 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% <u>0.17%</u> 1 8,980	4 720 0.56% <u>0.21%</u> 9 8,701	1 744 0.13% 0.21% 2 9,006	0 721 0.00% 0.19% 0 8,712	0 744 0.00% 0.17% 0 9,063
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 5 8,983 0.06%	0 672 0.00% 0.14% 0 8,101 0.00%	1 743 0.13% 0.14% 1 9,026 0.01%	0 720 0.00% 0.10% 0 8,745 0.00%	6 744 0.81% 0.25% 12 9,004 0.13%	0 720 0.00% 0.21% 0 8,712 0.00%	0 744 0.00% 0.18% 0 8,968 0.00%	1 744 0.13% 0.17% 1 8,980 0.01%	4 720 0.56% 0.21% 9 8,701 0.10%	1 744 0.13% 0.21% 2 9,006 0.02%	0 721 0.00% 0.19% 0 8,712 0.00%	0 744 0.00% 0.17% 9,063 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 5 8,983 0.06%	0 672 0.00% 0.14% 0 8,101 0.00%	1 743 0.13% 0.14% 1 9,026 0.01%	0 720 0.00% 0.10% 0 8,745 0.00%	6 744 0.81% 0.25% 12 9,004 0.13%	0 720 0.00% 0.21% 0 8,712 0.00%	0 744 0.00% 0.18% 0 8,968 0.00%	1 744 0.13% 0.17% 1 8,980 0.01%	4 720 0.56% 0.21% 9 8,701 0.10%	1 744 0.13% 0.21% 2 9,006 0.02%	0 721 0.00% 0.19% 0 8,712 0.00%	0 744 0.00% 0.17% 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 corrected % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date in the month in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02%	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 corrected % of intervals corrected Mumber of hours reserved	in the month in the month year-to-date 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	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8	0 744 0.00% 0.17% 9,063 0.00% 0.03% 9
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 corrected % of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved Number of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720	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% 9 720	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% 5 744	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744
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 corrected % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month 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 with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved % of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month 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 % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 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% 9,063 0.00% 0.03% 9 744 1.21% 1.05%
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected Number of hours reserved Number of hours reserved % of hours reserved Days to Correction * Avg. number of days to correction Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month 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% 0.54% 0.54% 1.50 1.50	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% 0.00 1.50	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00 1.67	0 720 0.00% 0.10% 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00 1.67	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00 1.86	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00 1.86	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10% 0.00 1.86	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00 1.63	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00 1.38	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00 1.38	0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00 1.38
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved Number of hours reserved % of hours reserved Days to Correction * Avg. number of days to correction Avg. number of days to correction Days Without Corrections Days without corrections	in the month in the month year-to-date 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% 0.54% 0.54% 1.50 1.50 29	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% 0.00 1.50 28	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00 1.67 30	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00 1.67 30	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00 1.86 27	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00 1.86 30	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10% 0.00 1.86 31	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00 1.63 30	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.08% 1.00 1.42 26	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00 1.38 30	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00 1.38 30	0 744 0.00% 0.17% 0 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00 1.38 31
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected Number of hours reserved Number of hours reserved % of hours reserved Days to Correction * Avg. number of days to correction Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month 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% 0.54% 1.50 1.50	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% 0.00 1.50	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00 1.67	0 720 0.00% 0.10% 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00 1.67	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00 1.86	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00 1.86	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10% 0.00 1.86	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00 1.63	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00 1.38	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00 1.38	0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00 1.38

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



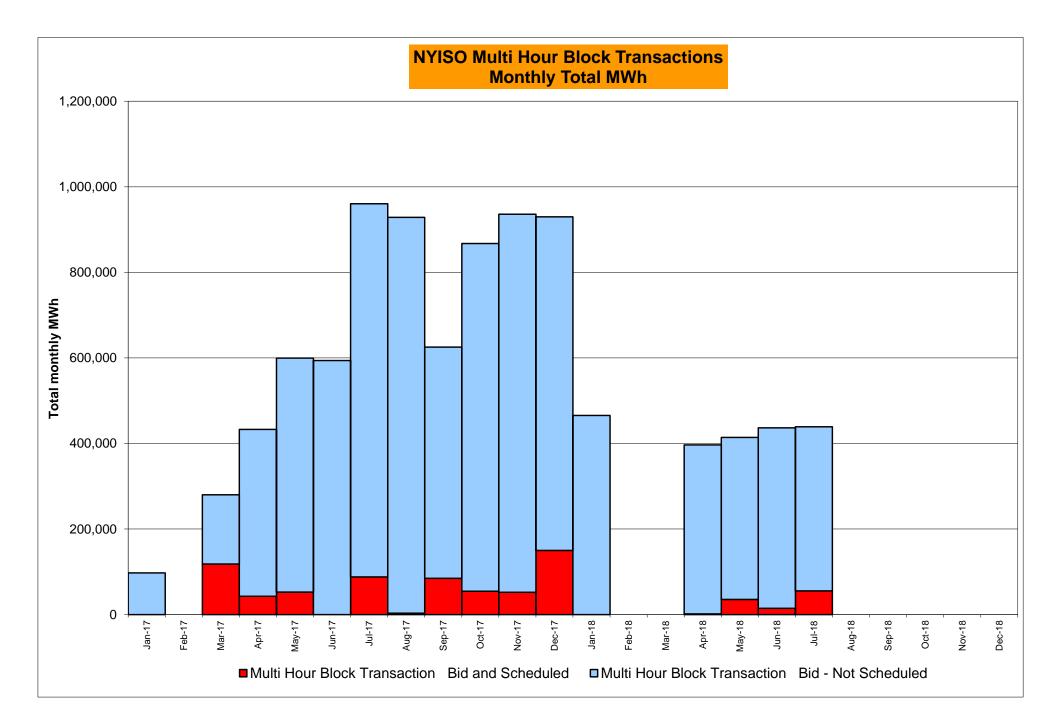
*Calendar days from reservation date; for June 2018 forward, business days from market date

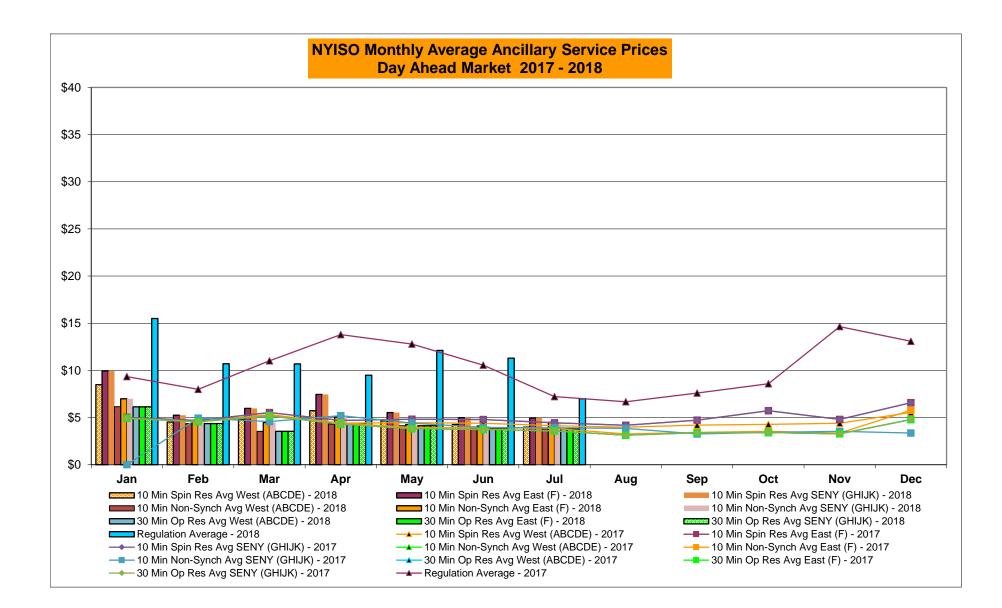


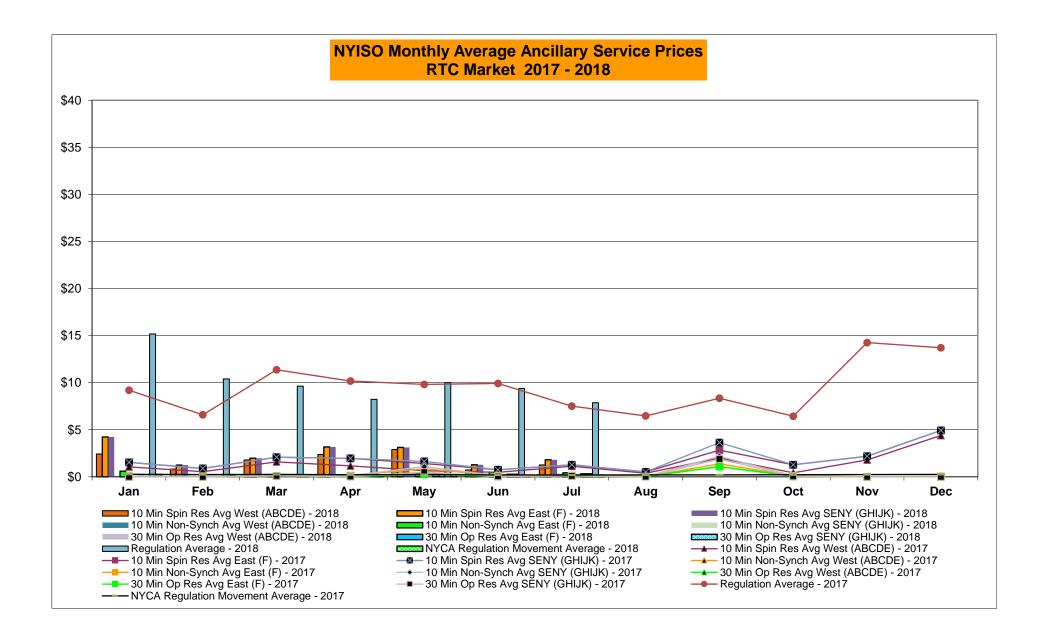


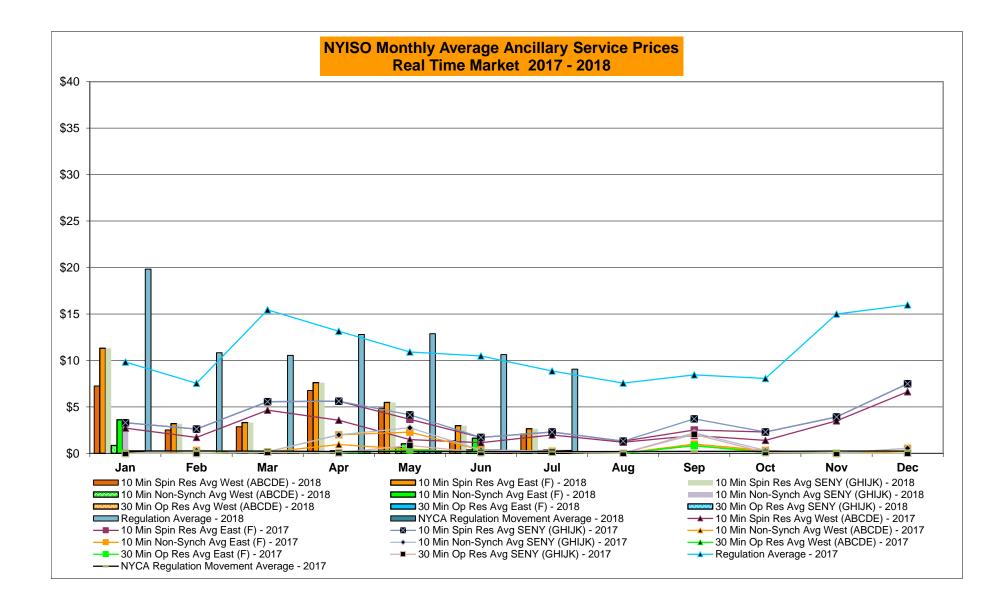
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018

Image: Normal base in the structure in the structur		1	Virtual L		Virtual S	upply Bid		1	Virtual L	oad Bid	Virtual Su			1	Virtual L		Virtual Su	
ST Murit 4.78 4.241 1.53 4.27 MW VL Murit 765 4.56 DUWNOD Am-16 7.75 5.169 2.215 Martis 7.203 2.53 500 600 600 100 1.300 <	7000	Dete	Schodulod	Not Schodulod	Schodulad	Not	7000	Data	Schodulad	Not Sebeduled	Sobodulad	Not Schodulod	7000	Data	Schodulad	Not Sebeduled	Sobodulad	Not Schodulod
Feb-18 3.068 1.041 1.478 0.03 1.478 0.03 0.06																		
Mar-16 7.28 2.535 660 650 Ap-16 5.16 3.43 0.20 3.30 1.986 300 Ap-16 7.034 4.266 516 6.72 Ap-16 70 Ap-16	VESI												DOINWOD					824
Apr-16 6,154 3,433 996 900 Apr-16 170 17,080 4700 Apr-16 170 17,080 4700 Mp-16 7,080 4,022 700 681 Apr-16 170 17,080 1208 1383 1283																		487
Mp-16 7.858 4.266 516 6.76 Mp-16 1.261 6.144 4.101 804 700 4.101 804 700 4.101 804 700 4.101 804 700 4.101 804 700 4.101 804 700 4.101 804 700 4.101 804 700 4.101 804 700 4.101 803 3.887 803 3.887 803 4.101 8.84 806 2.274 Nor-16 0 0 0.015 0															,			333
Jun-18 7.003 6.142 7.00 691 Jun-18 7.00 691 Jun-18 6.144 6.144 6.144 6.144 6.144 7.00 691 Sec.16 - </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>440</td>														-				440
Jul-18 0,141 4,151 694 765 Aug-18 -		-	,															515
Sep-18 Sep-18<										152							2,764	566
Sep-18 Sep-18<		Aug-18						Aug-18						Aug-18				
Nov-16 Nov-16<																		
Dec-18 Dec-18<		Oct-18						Oct-18						Oct-18				
ENES Jan-18 554 310 3.772 2.739 CAPIT Jan-18 2.201 1.751 1.887 2.212 Jan-18 4.302 5.885 1.309 Mar-18 557 112 1.723 2.671 Mar-18 1.731 156 1.331 2.799 Mar-18 5.744 4.187 1.111 1.1 Mar-18 6.967 2.241 1.818 1.047 Mar-18 1.731 156 1.330 2.486 1.331 Jun-18 6.967 2.241 1.818 1.302 1.331 2.460 2.212 1. Jun-18 4.70 1.22 2.233 6.60 1.12 1.813 1.303 1.301 Jun-18 4.712 0.11 1.314 1.301 <td></td> <td>Nov-18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Nov-18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Nov-18</td> <td></td> <td></td> <td></td> <td></td>		Nov-18						Nov-18						Nov-18				
Fab-18 525 172 1,723 2,671 Fab-18 1,822 289 1,331 2,799 Fab-18 5,644 4,197 1,181 1,181 Mar.18 557 234 1,381 2,486 1,731 156 2,303 2,851 May-18 405 223 2,535 649 1,731 268 2,033 1,826 Juh-18 476 122 2,353 649 1,731 268 1,303 3,308 2,490 2,222 1,181 1,181 1,227 1,152		Dec-18						Dec-18						Dec-18				
Mar.16 557 143 1.381 2.488 Mar.18 577 234 1.181 1.743 2.685 Mar.18 2.385 4.991 1.727 1. Jun.16 308 100 2.222 553 1.491 95 1.301 1.305 Jun.18 3.180 Jun.18 3.180 Jun.18 3.180 Jun.18 3.180 Jun.18 3.180 Jun.18 3.245 Jun.18 1.321 Jun.18 3.245 Jun.18 3.211 Jun.18 Ju	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
Apr:18 5.87 2.24 1.818 1.047 May:18 40:5 123 2.353 6.49 1.301 1.305 1.305 1.301 2.460 2.420 1.123 1.315 1.336 </td <td></td> <td>Feb-18</td> <td>525</td> <td>172</td> <td>1,723</td> <td>2,671</td> <td></td> <td>Feb-18</td> <td>1,822</td> <td>269</td> <td>1,331</td> <td>2,799</td> <td></td> <td>Feb-18</td> <td>5,644</td> <td>4,187</td> <td>1,181</td> <td>1,086</td>		Feb-18	525	172	1,723	2,671		Feb-18	1,822	269	1,331	2,799		Feb-18	5,644	4,187	1,181	1,086
May-18 406 123 2,333 649 May-18 91 95 1,430 1,303 May-18 3.301 1,152 1,17 Jul-18 476 123 2,913 1,002 Jul-18 6.768 2.222 0.1 Aug-18 50p-18 - <		Mar-18		143	1,381	2,488		Mar-18	1,731	156	1,330	2,851		Mar-18	2,346	4,931	1,727	1,285
Jun-18 388 100 2.222 563 Jun-18 812 112 1.136 J.36 Jun-18 6.766 2.924 2.210 1.1 Jun-18 2.915 1.062 2.915 1.062 2.916 3.914 3.914 3.911 1.926 3.914 3.911 1.926 3.914 3.911 1.926 3.914 3.911 1.926 3.914 3.911 1.926 3.914 1.926 3.914 1.926		Apr-18		234	1,818			Apr-18			2,032					2,460	2,212	1,376
Jul-18 476 123 2.913 1.062 Jul-18 669 219 2.818 1.381 Jul-18 9.126 3.514 3.011 1. Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:18 Sep:1																		1,476
Aug-18 Aug-18<																		1,888
Sep-18 Sep-18<				123	2,913	1,062				219	2,818	1,381				3,514	3,011	1,420
Oct-18 Nov-18 Oct-18 Dec-18 Oct-18 D																		
Nov-18 Nov-18<							_											
Dec-18 Dec-18<																		
DRTH Jan-18 274 282 8.259 3.265 HUD VL Jan-18 1.562 1.285 5.029 7.218 LONGIL Jan-18 3.335 3.714 1.932 1.932 Mar-18 249 367 6.995 2.136 Mar-18 845 1.086 5.169 10.637 Mar-18 2.600 2.591 3.061 2.505 1.148 Apr-18 249 367 6.995 2.136 Mar-18 845 1.086 5.169 10.637 Mar-18 3.613 3.021 3.308 1.200 Jun-18 215 79 6.001 4.171 Mar-18 845 1.089 9.3727 11.304 Mar-18 3.613 3.021 3.308 1.148 2.205 1.1 Jun-18 428 423 5.664 2.542 Jun-18 1.006 573 4.144 8.407 Jun-18 4.610 3.179 Jun-18 4.621 2.235 1.618 2.235 1.618 2.							_											
Feb-18 352 369 7.449 2.777 Mar.18 848 7.40 4.703 8.761 Mar.18 2.8001 2.591 3.061 2. Apr.18 249 367 6.995 2.136 Apr.18 639 973 5.990 9.863 Mar.18 3.620 2.505 1. Jun.18 514 317 5.178 3.667 Jul.18 2.423 5.684 2.542 Jul.18 2.420 1.436 8.401 2.235 1.618 2. Aug.18				000	0.050	0.005				4.005	5 000	7.040				0.74.4	4 000	4 000
Mar-18 249 367 6,995 2,136 Apr-18 189 269 7,479 1,348 May-18 215 79 6,001 4,717 Jun-18 514 317 5,178 3,667 Jul-18 428 423 5,684 2,542 Aug-18 - - - - Oct-18 - - - - - Nov-18 - - - - - - Nov-18 - - - - - - - Nov-18 - - - - - - - Per-18 - - - - - - - Mar-18 983 434 28,975 647 MILLWD Jan-18 923 988 2,033 757 NYISO Jan-18 21,542 20,854 59,437 20,051 - M	NORTH						HUD VL						LONGIL					1,622 2,605
Apr-18 189 269 7.479 1.848 Apr-18 639 973 5.990 9.863 May-18 215 79 6.001 4.717 7.178 3.667 11,304 4.444 8.407 3.027 11,304 3.027 11,304 3.027 11,304 3.027 11,304 3.027 11,304 3.027 11,304 3.027 11,304 3.027 11,304 3.027 11,304 3.027 11,304 3.027 12,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,235 1.618 2.2,240 1.718 3.620 2.2,695 3.175 Mu/18 1.018 1.018 1.018 1.018 1.018 1.018 1.018							_											2,805
May-18 215 79 6.001 4.717 Jun-18 514 317 5.778 3.667 Jun-18 1.408 573 4.144 8.407 Jun-18 514 317 5.778 3.667 Jun-18 1.408 573 4.144 8.407 Jun-18 422 423 5.684 2.542 Jun-18 1.408 573 4.144 8.407 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18 Aug-18						-	-			,	,	,			,	,		1,700
Jun-18 514 317 5,178 3,657 Jun-18 1,408 573 4,144 8,407 Jun-18 4,621 2,235 1,618 2, Aug-18 428 423 5,684 2,542 Jun-18 2,766 550 3,087 5,200 Jun-18 4,610 3,179 1,278 2, Sep-18 C C Sep-18 C C Sep-18 Sep-18 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>L .</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,031</td>								L .										2,031
Jul-18 428 423 5,684 2,542 Aug-18		-					-	-										2,440
Aug-18 Mag-18 Mag-18<																		2,775
Sep-18 M M M M Sep-18 M M M Sep-18 M <											- ,						, -	, -
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																		
Dec-18 Oec-18 Dec-18 Oec-18 Dec-18 Dec-18 Oec-18 Oec-18<		Oct-18												Oct-18				
ENTRL Jan-18 983 434 28,975 647 MILLWD Jan-18 923 988 2,033 757 NYISO Jan-18 21,542 20,854 59,437 20,753 Feb-18 595 215 28,161 483 Feb-18 486 337 1,284 1,197 Encretary Feb-18 1,494 421 Feb-18 1,1144 421 Feb-18 17,423 11,608 58,172 24, Mar-18 1,977 208 26,643 614 Feb-18 486 526 1,031 163 Feb-18 21,217 13,494 53,984 23, Apr-18 1,033 221 21,769 470 Mar-18 938 302 1,223 234 Mar-18 21,217 13,494 53,937 20, Jul-18 1,093 273 27,687 534 Jul-18 1,193 1,051 940 358 Jul-18 31,359 14,319 54,416 17,		Nov-18						Nov-18						Nov-18				
Feb-18 595 215 28,161 483 Feb-18 486 337 1,284 1,197 Mar.18 1,977 208 26,643 614 Mar.18 720 141 1,144 421 Mar.18 21,217 13,494 53,984 23, Apr.18 1,753 334 22,490 677 Mar.18 720 141 1,144 421 Mar.18 21,217 13,494 53,984 23, Apr.18 1,033 221 21,769 470 May.18 790 140 1,050 188 May.18 24,723 12,074 44,726 23, Jun.18 1,093 273 27,687 534 Jul.18 1,193 1,051 940 358 Jul.18 31,359 14,319 54,416 17, Aug.18 May.18 1,193 1,051 940 358 Jul.18 31,359 14,319 54,416 17, Aug.18 May.18 May.18 M		Dec-18						Dec-18						Dec-18				
Feb-18 595 215 28,161 483 Feb-18 486 337 1,284 1,197 Mar.18 1,977 208 26,643 614 Mar.18 720 141 1,144 421 Mar.18 21,217 13,494 53,984 23, Apr.18 1,753 334 22,490 677 Mar.18 720 141 1,144 421 Mar.18 21,217 13,494 53,984 23, Apr.18 1,033 221 21,769 470 May.18 790 140 1,050 188 May.18 24,723 12,074 44,726 23, Jun.18 1,093 273 27,687 534 Jul.18 1,193 1,051 940 358 Jul.18 31,359 14,319 54,416 17, Aug.18 May.18 1,193 1,051 940 358 Jul.18 31,359 14,319 54,416 17, Aug.18 May.18 May.18 M	CENTRI	Jan-18	983	434	28 975	647	MILLWD	Jan-18	923	988	2 033	757	NYISO	lan-18	21 542	20 854	59 437	20,478
Mar-18 1,977 208 26,643 614 Apr-18 1,753 334 22,490 677 May-18 1,033 221 21,769 470 Jun-18 730 164 28,504 501 Jun-18 1,093 273 27,687 534 Jun-18 1,093 273 27,687 534 Jun-18 1,093 273 27,687 534 Aug-18 0ct-18 0ct-18 0ct-18 0ct-18 0ct-18 Nov-18 0ct-18 0ct-18 0ct-18 0ct-18 0ct-18 0ct-18																		24,075
Apr-18 1,753 334 22,490 677 May-18 1,033 221 21,769 470 Jun-18 730 164 28,504 501 Jul-18 1,093 273 27,687 534 Jul-18 1,093 273 27,687 534 Jul-18 1,093 273 27,687 534 Jul-18 1,193 1,051 940 358 Sep-18 Cot-18 Sep-18 Cot-18 Cot-18 Cot-18 Cot-18 Nov-18 Cot-18 Nov-18 Cot-18 Cot-16 Cot-16 C							-								,			23,855
May-18 1,033 221 21,769 470 Jun-18 730 164 28,504 501 Jul-18 1,093 273 27,687 534 Jul-18 1,093 273 27,687 534 Aug-18 1,193 1,051 940 358 Sep-18 Aug-18 Oct-18 Nov-18 Nov-18							-											19,613
Jun-18 730 164 28,504 501 Jul-18 1,093 273 27,687 534 Aug-18 1														· ·				
Aug-18		Jun-18	730					Jun-18	938		1,223	234		Jun-18	25,903	11,189	53,397	20,825
Sep-18 Sep-18<				273	27,687	534		Jul-18	1,193	1,051	940	358				14,319	54,416	
Oct-18 Oct-18<																		
Nov-18 No		-																
Dec-18 Dec-18 Dec-18																		
		Dec-18						Dec-18						Dec-18				









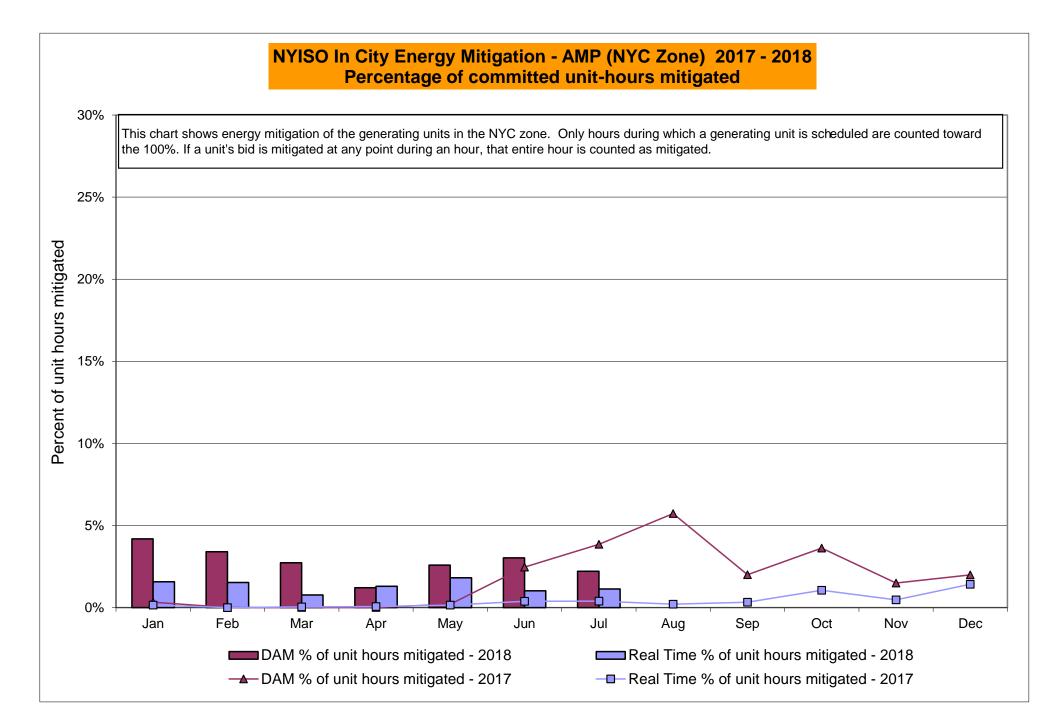
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

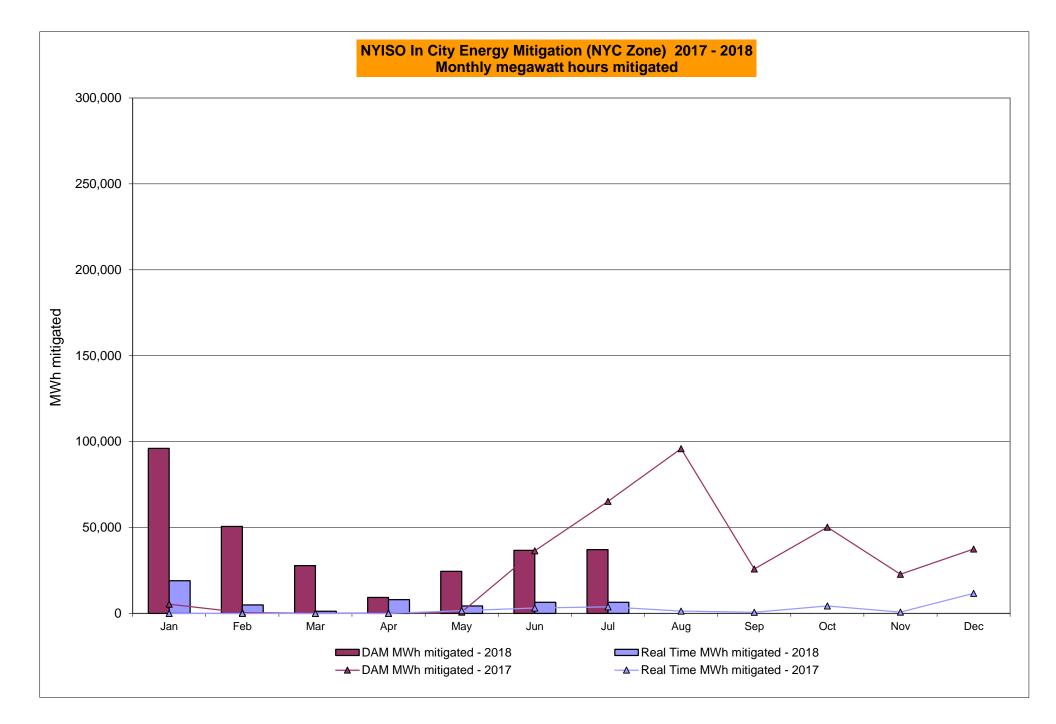
			nomai y		Statistics		giitoa
2018	January	February	March	<u>April</u>	May	June	<u>July</u>
Day Ahead Market	<u>e carrotary</u>	<u> </u>		<u></u>	<u></u>	<u></u>	<u>•••.</u>
10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52	4.98	4.95
10 Min Spin East (F)	9.93	5.24	5.97	7.45	5.52	4.98	4.95
10 Min Spin West (ABCDE)	8.49	4.53	4.78	5.73	4.65	4.26	3.98
10 Min Non Synch SENY (GHIJK)	6.99	4.54	4.48	5.05	4.26	4.09	4.49
10 Min Non Synch East (F)	6.99	4.54	4.48	5.05	4.26	4.09	4.49
10 Min Non Synch West (ABCDE)	6.15	4.36	3.54	4.31	4.13	3.85	3.80
30 Min SENY (GHIJK)	6.14	4.36	3.54	4.31	4.13	3.85	3.79
30 Min East (F)	6.14	4.36	3.54	4.31	4.13	3.85	3.79
30 Min West (ABCDE)	6.14	4.36	3.54	4.31	4.13	3.85	3.79
Regulation	15.51	10.70	10.68	9.49	12.11	11.30	6.99
•	15.51	10.70	10.00	5.45	12.11	11.50	0.99
RTC Market							
10 Min Spin SENY (GHIJK)	4.23	1.24	1.98	3.17	3.13	1.28	1.81
10 Min Spin East (F)	4.23	1.24	1.98	3.17	3.13	1.28	1.81
10 Min Spin West (ABCDE)	2.43	0.82	1.79	2.38	2.91	0.74	1.27
10 Min Non Synch SENY (GHIJK)	0.59	0.03	0.01	0.22	0.42	0.49	0.42
10 Min Non Synch East (F)	0.59	0.03	0.01	0.22	0.42	0.49	0.42
10 Min Non Synch West (ABCDE)	0.08	0.02	0.00	0.00	0.33	0.27	0.33
30 Min SENY (GHIJK)	0.08	0.02	0.00	0.00	0.32	0.27	0.33
30 Min East (F)	0.08	0.02	0.00	0.00	0.32	0.27	0.33
30 Min West (ABCDE)	0.08	0.02	0.00	0.00	0.32	0.27	0.33
Regulation	15.17	10.40	9.63	8.22	10.01	9.39	7.87
NYCA Regulation Movement	0.26	0.21	0.20	0.22	0.19	9.39 0.16	0.19
NTCA Regulation Movement	0.20	0.21	0.20	0.22	0.19	0.16	0.19
Real Time Market							
10 Min Spin SENY (GHIJK)	11.31	3.19	3.31	7.62	5.48	2.98	2.65
10 Min Spin East (F)	11.31	3.19	3.31	7.62	5.48	2.98	2.65
10 Min Spin West (ABCDE)	7.24	2.52	2.86	6.77	4.86	1.37	2.10
10 Min Non Synch SENY (GHIJK)	3.61	0.01	0.19	0.28	1.03	1.63	0.35
10 Min Non Synch East (F)	3.61	0.01	0.19	0.28	1.03	1.63	0.35
10 Min Non Synch West (ABCDE)	0.85	0.00	0.00	0.00	0.57	0.37	0.29
30 Min SENY (GHIJK)	0.13	0.00	0.00	0.00	0.37	0.37	0.29
30 Min East (F)	0.13	0.00	0.00	0.00	0.37	0.37	0.29
30 Min West (ABCDE)	0.13	0.00	0.00	0.00	0.37	0.37	0.29
Regulation	19.82	10.82	10.54	12.80	12.88	10.62	9.06
0							
NYCA Regulation Movement	0.24	0.21	0.20	0.21	0.17	0.15	0.18
<u>2017</u>	lanuary	<u>February</u>	March	April	May	<u>June</u>	hub.
	<u>January</u>	rebiuary	March	<u>April</u>	iviay	June	<u>July</u>
Day Ahead Market	E 01	E 20	E 04	6.04	4.02	4.60	6.44
10 Min Spin SENY (GHIJK)	5.01	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin East (F)	5.01	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin West (ABCDE)	4.94	5.25	4.84	5.60	4.77	4.52	5.78
10 Min Non Synch SENY (GHIJK)	4.94	5.25	4.88	5.80	4.83	4.36	6.34
10 Min Non Synch East (F)	4.94	5.25	4.88	5.80	4.83	4.36	6.34
10 Min Non Synch West (ABCDE)	4.92	5.20	4.84	5.58	4.68		5.72
30 Min SENY (GHIJK)						4.32	
	4.92	5.20	4.84	5.58	4.67	4.32	5.70
30 Min East (F)	4.92	5.20	4.84	5.58	4.67	4.32 4.32	5.70 5.70
						4.32	5.70
30 Min East (F)	4.92	5.20	4.84	5.58	4.67	4.32 4.32	5.70 5.70
30 Min East (F) 30 Min West (ABCDE) Regulation	4.92 4.92	5.20 5.20	4.84 4.84	5.58 5.58	4.67 4.67	4.32 4.32 4.32	5.70 5.70 5.70
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u>	4.92 4.92 9.34	5.20 5.20 8.19	4.84 4.84 8.05	5.58 5.58 7.93	4.67 4.67 6.11	4.32 4.32 4.32 7.00	5.70 5.70 5.70 8.19
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK)	4.92 4.92 9.34 1.53	5.20 5.20 8.19 0.59	4.84 4.84 8.05 0.71	5.58 5.58 7.93 1.81	4.67 4.67 6.11 0.43	4.32 4.32 4.32 7.00 0.49	5.70 5.70 5.70 8.19 2.79
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	4.92 4.92 9.34 1.53 1.53	5.20 5.20 8.19 0.59 0.59	4.84 4.84 8.05 0.71 0.71	5.58 5.58 7.93 1.81 1.81	4.67 4.67 6.11 0.43 0.43	4.32 4.32 4.32 7.00 0.49 0.46	5.70 5.70 5.70 8.19 2.79 2.77
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	4.92 4.92 9.34 1.53 1.53 1.06	5.20 5.20 8.19 0.59 0.59 0.26	4.84 4.84 8.05 0.71 0.71 0.08	5.58 5.58 7.93 1.81 1.81 0.95	4.67 4.67 6.11 0.43 0.43 0.23	4.32 4.32 4.32 7.00 0.49 0.46 0.24	5.70 5.70 5.70 8.19 2.79 2.77 1.72
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	4.92 4.92 9.34 1.53 1.53 1.06 0.06	5.20 5.20 8.19 0.59 0.26 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17	5.58 5.58 7.93 1.81 1.81 0.95 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 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)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06	5.20 5.20 8.19 0.59 0.26 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18
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 West (ABCDE) 30 Min SENY (GHIJK)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04	5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 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)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 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)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02 0.02 0.02	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.686	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	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	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	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	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
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 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)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02 0.02 0.02	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.686	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	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	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	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	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
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.686	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	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	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	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	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 7.07 0.25 4.34	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$	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	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 7.07 0.25 4.34 4.34	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40	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 4.73
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	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	$5.20 \\ 5.20 \\ 8.19 \\ 0.59 \\ 0.26 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.21 \\ 1.12 \\ 1.12 \\ 1.12 \\ 0.58 \\ $	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48	$5.58 \\ 5.58 \\ 7.93 \\ 1.81 \\ 1.81 \\ 0.95 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 7.07 \\ 0.25 \\ 4.34 \\ 4.34 \\ 2.23 \\ 1.23 \\ $	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 0.04	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	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	$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 \\ 7.07 \\ 0.25 \\ 4.34 \\ 4.34 \\ 2.23 \\ 1.20 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\\\\\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\\end{array}$	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	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	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	5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	$5.58 \\ 5.58 \\ 7.93 \\ 1.81 \\ 1.81 \\ 0.95 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 2.23 \\ 1.20 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\\\\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\\\ 0.06\end{array}$	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	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 4.73 4.72 2.51 3.49 3.48
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin 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)	$\begin{array}{c} 4.92 \\ 4.92 \\ 9.34 \\ \end{array}$ $\begin{array}{c} 1.53 \\ 1.53 \\ 1.06 \\ 0.06 \\ 0.06 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 9.21 \\ 0.27 \\ \end{array}$ $\begin{array}{c} 3.29 \\ 3.29 \\ 3.29 \\ 2.71 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 6.86 0.21 1.12 1.12 1.12 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \end{array}\\ \begin{array}{c} 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.00\\ \end{array}$	$5.58 \\ 5.58 \\ 7.93 \\ 1.81 \\ 1.81 \\ 0.95 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 2.23 \\ 1.20 \\ 1.20 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 1.20 \\ 0.26 \\ 1.20 \\ 1.20 \\ 0.26 \\ 1.20 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\\\ 0.05\\\\ 0.05\\\\ 0.05\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 5.43\\\\ 0.25\\\\\\ 1.19\\\\ 1.19\\\\ 1.19\\\\ 0.79\\\\ 0.06\\\\ 0.06\\\\ 0.03\\\\\\ 0.03\end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin 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)	$\begin{array}{c} 4.92 \\ 4.92 \\ 9.34 \\ \end{array}$ $\begin{array}{c} 1.53 \\ 1.53 \\ 1.66 \\ 0.06 \\ 0.06 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 9.21 \\ 0.27 \\ \end{array}$ $\begin{array}{c} 3.29 \\ 3.29 \\ 3.29 \\ 2.71 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \end{array}\\ \begin{array}{c} 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ \end{array}$	$5.58 \\ 5.58 \\ 7.93 \\ 1.81 \\ 1.81 \\ 0.95 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 2.23 \\ 1.20 \\ 1.20 \\ 1.20 \\ 0.26 \\ 0.25 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\\\ 0.05\\\\ 0.05\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.05\\\\ 0.06\\\\ 0.06\\\\ 0.03\\\\ 0.03\\\\ 0.03\end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin 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)	$\begin{array}{c} 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \end{array}\\ \begin{array}{c} 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.125 1.20 1.20 0.25 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\\\\\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.06\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\\\ 0.03$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin 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 SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min SENY (G	$\begin{array}{c} 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 1.12 1.12 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.25 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 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\\\\ 0.03\\ 0.03\\\\ 0.03\\ 0.03\\\\ $	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin 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	$\begin{array}{c} 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.25 4.34 4.34 4.34 2.23 1.20 1.20 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\ \\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.06\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 6.06\\ \end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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 0.97 0.97 8.37
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 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 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 SENY	$\begin{array}{c} 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 1.12 1.12 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.25 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 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\\\\ 0.03\\ 0.03\\\\ 0.03\\ 0.03\\\\ $	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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

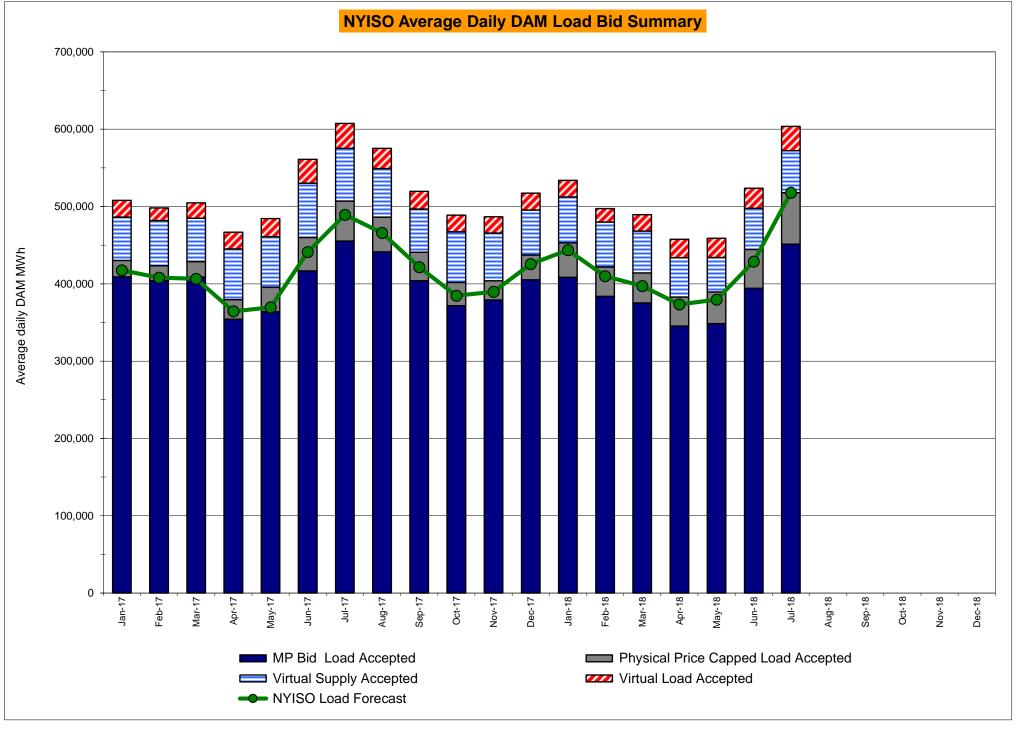
<u>August</u> <u>September</u>

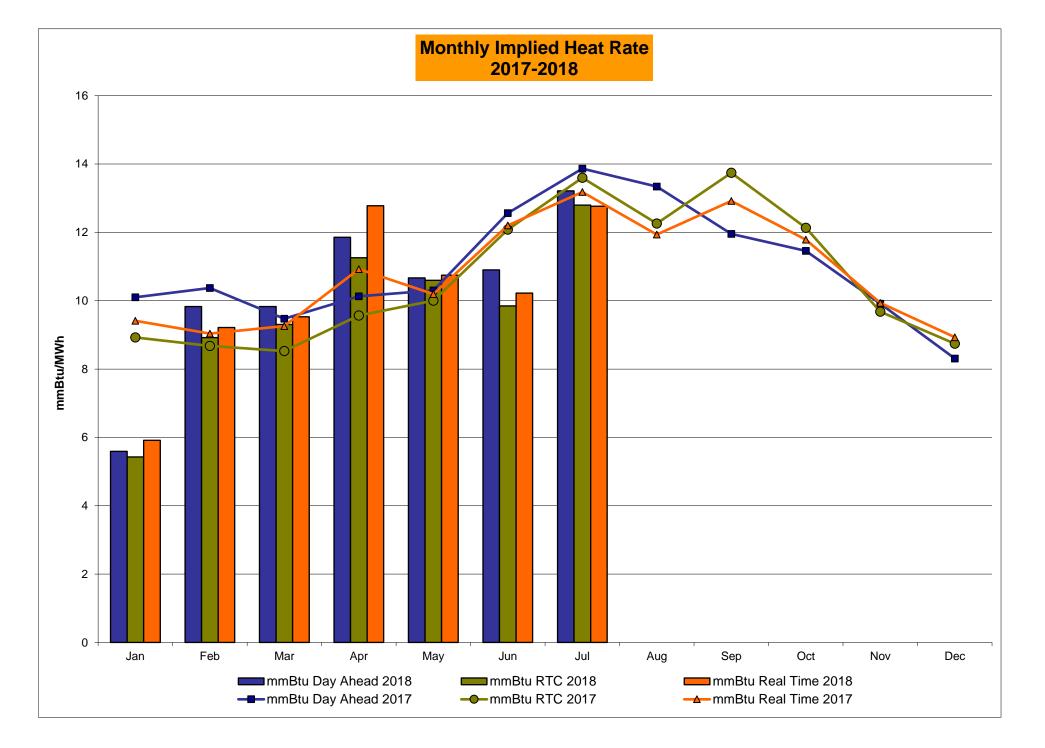
October November December

<u>August</u>	<u>September</u>	<u>October</u>	November	December
7.12	5.57	5.37	4.83	4.89
7.12	5.57	5.37	4.83	4.89
6.20	5.14	4.89	4.50	4.73
7.07	5.52	5.09	4.43	4.49
7.07	5.52	5.09	4.43	4.49
6.15	5.10	4.82	4.39	4.43
6.15	5.10	4.82	4.39	4.43
6.15	5.10	4.82	4.39	4.43
6.15	5.10	4.82	4.39	4.43
8.61	7.00	8.57	7.77	13.80
7.26	0.61	0.99	1.05	1.92
6.88	0.61	0.99	1.05	1.92
4.80	0.30	0.29	0.82	1.14
6.06	0.21	0.09	0.00	0.00
5.67	0.21	0.09	0.00	0.00
3.80	0.16	0.08	0.00	0.00
3.65	0.15	0.08	0.00	0.00
3.27	0.15	0.08	0.00	0.00
3.27	0.15	0.08	0.00	0.00
10.25	5.52	6.86	7.00	16.70
0.24	0.24	0.26	0.24	0.26
8.04	1.59	1.96	2.69	3.18
7.68	1.59	1.96	2.69	3.18
4.72	0.90	1.16	2.29	2.33
6.70	0.59	0.18	0.00	0.00
6.34	0.59	0.18	0.00	0.00
3.56	0.21	0.11	0.00	0.00
3.48	0.21	0.11	0.00	0.00
3.12	0.21	0.11	0.00	0.00
3.12	0.21	0.11	0.00	0.00
10.31	6.42	7.70	8.21	14.88
0.24	0.24	0.26	0.23	0.24

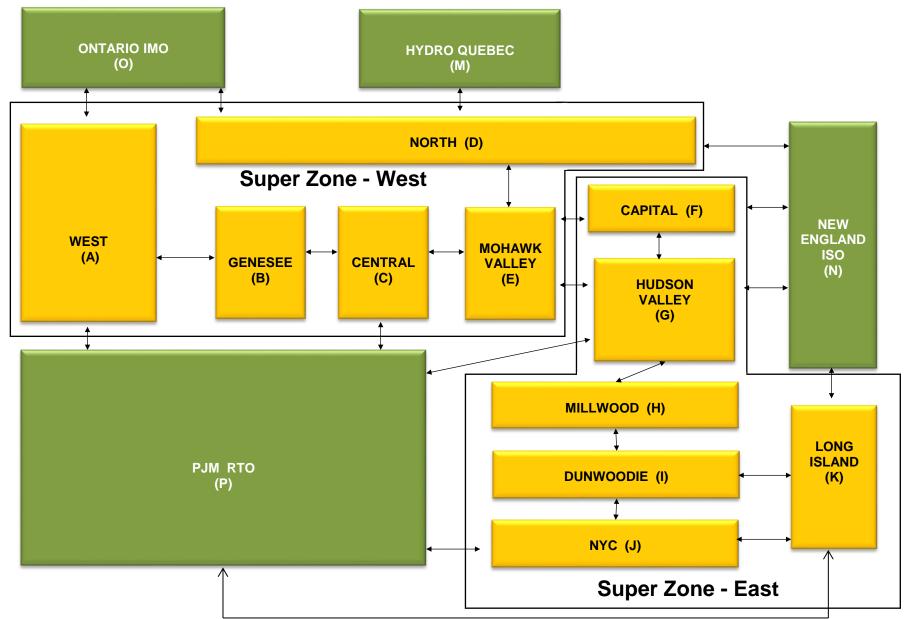








NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 8/7/2018 4:08 PM

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

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





