# Market Operations Report

# **Rana Mukerji** SENIOR VICE PRESIDENT – MARKET STRUCTURES, NYISO

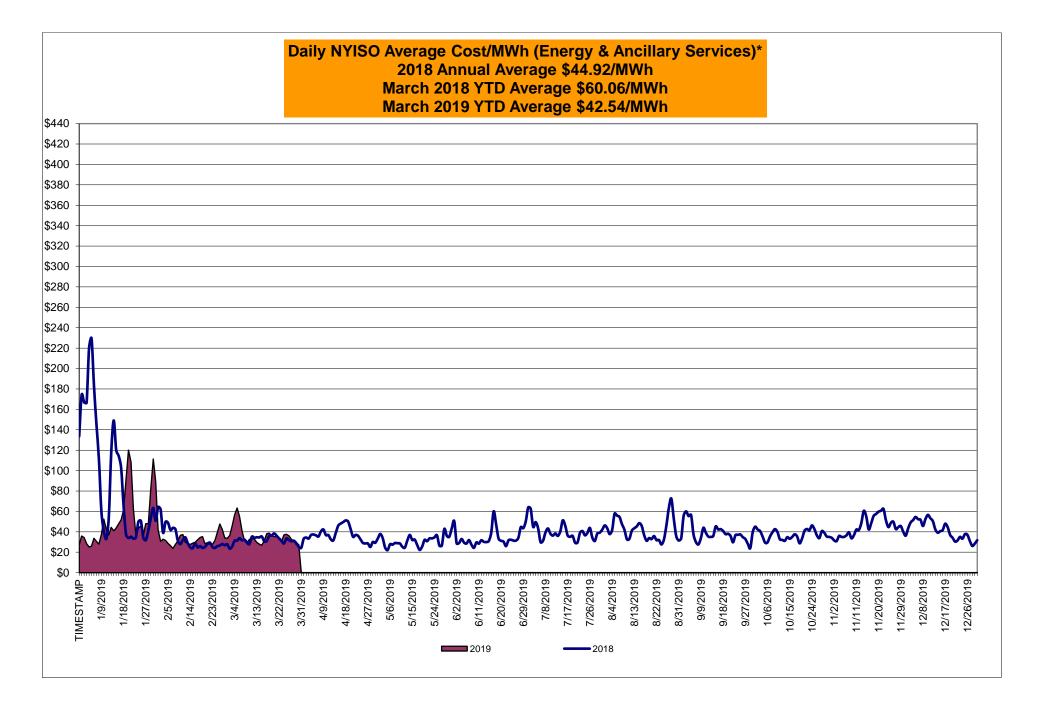
#### **Business Issues Committee Meeting**

April 17, 2019 Rensselaer, NY



# Market Performance Highlights March 2019

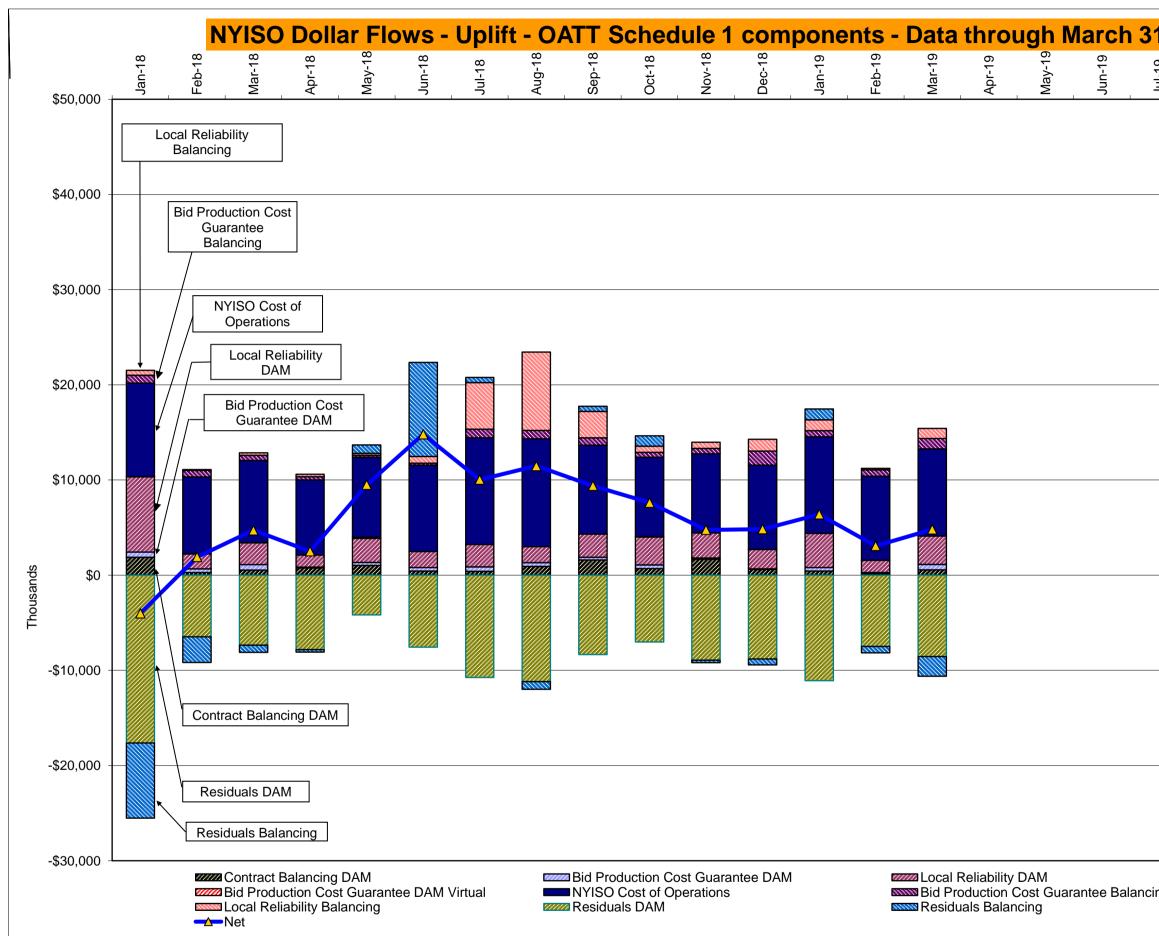
- LBMP for March is \$34.91/MWh; higher than \$33.51/MWh in February 2019 and \$29.91/MWh in March 2018.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to February.
- March 2019 average year-to-date monthly cost of \$42.54/MWh is a 29% decrease from \$60.06/MWh in March 2018.
- Average daily sendout is 411 GWh/day in March; lower than 436 GWh/day in February 2019 and 413 GWh/day in March 2018.
- Natural gas prices were higher and distillate prices were mixed compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.93/MMBtu, up from \$2.75/MMBtu in February.
  - Natural gas prices are up 2.6% year-over-year.
  - Jet Kerosene Gulf Coast was \$14.08/MMBtu, down from \$14.21/MMBtu in February.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.18/MMBtu, up from \$14.02/MMBtu in February.
  - Distillate prices are up 2.6% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.33)/MWh; higher than (\$0.44)/MWh in February.
    - Local Reliability Share is \$0.31/MWh, higher than \$0.11/MWh in February.
    - Statewide Share is (\$0.64)/MWh, lower than (\$0.55)/MWh in February.
  - TSA \$ per NYC MWh is \$0.01/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than February.



\* Excludes ICAP payments.

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

2019	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
LBMP	50.93	33.51	34.91									
NTAC	0.51	0.69	0.98									
Reserve	0.54	0.51	0.55									
Regulation	0.13	0.11	0.10									
NYISO Cost of Operations	0.68	0.68	0.69									
FERC Fee Recovery	0.08	0.09	0.09									
Uplift	(0.25)	(0.44)	(0.33)									
Uplift: Local Reliability Share	0.32	0.11	0.31									
Uplift: Statewide Share	(0.57)	(0.55)	(0.64)									
Voltage Support and Black Start	0.37	0.37	0.38									
Avg Monthly Cost	52.99	35.51	37.38									
Avg YTD Cost	52.99	44.93	42.54									
TSA \$ per NYC MWh	0.00	0.00	0.01									
2018	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	December
LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	40.31
NTAC	0.71	0.58	0.88	1.09	0.88	1.00	0.93	0.72	0.40	0.36	1.18	0.93
Reserve	0.92	0.65	0.64	0.81	0.68	0.57	0.49	0.51	0.52	0.80	0.66	0.54
Regulation	0.15	0.15	0.16	0.12	0.14	0.16	0.09	0.09	0.09	0.16	0.17	0.17
NYISO Cost of Operations	0.65	0.65	0.66	0.65	0.66	0.67	0.67	0.66	0.66	0.63	0.63	0.63
FERC Fee Recovery	0.08	0.10	0.09	0.10	0.09	0.09	0.06	0.06	0.08	0.09	0.09	0.08
Uplift	(0.92)	(0.50)	(0.31)	(0.45)	0.05	0.30	(0.13)	(0.02)	(0.11)	(0.30)	(0.27)	(0.29)
Uplift: Local Reliability Share	0.59	0.14	0.19	0.12	0.22	0.18	0.44	0.59	0.37	0.27	0.25	0.23
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)	(0.57)	(0.17)	0.12	(0.57)	(0.61)	(0.48)	(0.56)	(0.52)	(0.52)
Voltage Support and Black Start	0.40	0.41	0.42	0.41	0.42	0.42	0.42	0.42	0.42	0.40	0.40	0.40
Avg Monthly Cost												
Avy Monthly Cost	101.54	35.87	32.45	37.74	31.70	35.73	42.12	45.01	40.76	38.00	46.01	42.78
Avg Wohting Cost	101.54 101.54	35.87 72.85	32.45 60.06	37.74 54.82	31.70 50.20	35.73 47.70	42.12 46.64	45.01 46.37	40.76 45.75	38.00 45.03	46.01 45.11	42.78 44.92



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.

<b>1, 20</b> 1	<b>9</b>	Sep-19	Oct-19 -	Nov-19	Dec-19
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#### NYISO Markets Transactions

<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	15,299,458	13,391,383	13,527,834									
DAM LSE Internal LBMP Energy Sales	57%	57%	59%									
DAM External TC LBMP Energy Sales	6%	5%	3%									
DAM Bilateral - Internal Bilaterals	29%	30%	30%									
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%									
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%									
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%									
Balancing Energy Market MWh	-322,442	-323,188	-261,217									
Balancing Energy LSE Internal LBMP Energy Sales	-120%	-126%	-138%									
Balancing Energy External TC LBMP Energy Sales	65%	67%	82%									
Balancing Energy Bilateral - Internal Bilaterals	-4%	-1%	-3%									
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%									
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	3%	7%	6%									
Balancing Energy Bilateral - Wheel Through Bilaterals	-45%	-47%	-47%									
Transactions Summary												
LBMP	63%	62%	61%									
Internal Bilaterals	29%	30%	30%									
Import Bilaterals	5%	5%	6%									
Export Bilaterals	1%	2%	2%									
Wheels Through	1%	1%	1%									
Market Share of Total Load												
Day Ahead Market	102.2%	102.5%	102.0%									
Balancing Energy +	-2.2%	-2.5%	-2.0%									
Total MWH												
Average Daily Energy Sendout/Month GWh	449	436	411									
		100										
<u>2018</u>	<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>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073	13,983,384	16,839,994	17,195,447	14,432,632	13,548,828	13,506,134	14,450,460
DAM LSE Internal LBMP Energy Sales	59%	57%	58%	60%	61%	61%	65%	65%	61%	57%	58%	56%
DAM External TC LBMP Energy Sales	4%	3%	2%	2%	2%	1%	1%	2%	3%	6%	6%	6%
DAM Bilateral - Internal Bilaterals	29%	31%	32%	30%	29%	30%	26%	25%	28%	29%	30%	30%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	5%	5%	5%	4%	4%	5%	5%	2%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	1%	2%	2%	2%	2%	2%	2%	2%	2%	1%	1%	2%
Balancing Energy Market MWh	-149,619	-299,377	-386,811	-72,862	-29,539	-354,112	-80,438	-44,732	-210,436	-314,885	-304,277	-428,748
Balancing Energy LSE Internal LBMP Energy Sales	-147%	-101%	-128%	-208%	-458%	-113%	-123%	-75%	-82%	-105%	-100%	-94%
Balancing Energy External TC LBMP Energy Sales	74%	24%	37%	189%	400 <i>%</i> 564%	29%	129%	209%	14%	30%	18%	27%
Balancing Energy Bilateral - Internal Bilaterals	9%	24 <i>%</i> 5%	0%	-11%	29%	23 <i>%</i> 5%	18%	20370	7%	2%	3%	3%
Balancing Energy Bilateral - ImportI/Non-LBMP Market Bilaterals	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	10%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%	0 % 9%	6%	34%	51%	3%	14%	25%	3%	0%	0%	0%
Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-36%	-15%	-103%	-287%	-23%	-138%	-281%	-42%	-27%	-31%	-36%
Transactions Summary	-3070	-3070	-1070	-10370	-20770	-2070	-13070	-20170	-42 /0	-21/0	-5170	-3070
LBMP					620/	C10/	669/	68%	64%	63%	64%	61%
	620/	500/	EU0/	E-00/		<b>A</b> 1 0/				11.770	0470	0170
	63% 30%	59% 32%	59% 33%	62% 30%	63% 20%	61% 31%	66% 27%					210/
Internal Bilaterals	30%	32%	33%	30%	29%	31%	27%	25%	28%	30%	31%	31%
Internal Bilaterals Import Bilaterals	30% 5%	32% 5%	33% 6%	30% 5%	29% 5%	31% 5%	27% 4%	25% 4%	28% 5%	30% 5%	31% 3%	5%
Internal Bilaterals Import Bilaterals Export Bilaterals	30% 5% 2%	32% 5% 2%	33% 6% 2%	30% 5% 2%	29% 5% 2%	31% 5% 1%	27% 4% 1%	25% 4% 1%	28% 5% 1%	30% 5% 2%	31% 3% 2%	5% 2%
Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through	30% 5%	32% 5%	33% 6%	30% 5%	29% 5%	31% 5%	27% 4%	25% 4%	28% 5%	30% 5%	31% 3%	5%
Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load	30% 5% 2% 1%	32% 5% 2% 1%	33% 6% 2% 1%	30% 5% 2% 1%	29% 5% 2% 1%	31% 5% 1% 2%	27% 4% 1% 1%	25% 4% 1% 1%	28% 5% 1% 2%	30% 5% 2% 1%	31% 3% 2% 1%	5% 2% 1%
Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through <u>Market Share of Total Load</u> Day Ahead Market	30% 5% 2% 1%	32% 5% 2% 1% 102.4%	33% 6% 2% 1% 102.9%	30% 5% 2% 1% 100.6%	29% 5% 2% 1%	31% 5% 1% 2% 102.6%	27% 4% 1% 1% 100.5%	25% 4% 1% 1% 100.3%	28% 5% 1% 2% 101.5%	30% 5% 2% 1% 102.4%	31% 3% 2% 1% 102.3%	5% 2% 1% 103.1%
Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market Balancing Energy +	30% 5% 2% 1% 101.0% -1.0%	32% 5% 2% 1% 102.4% -2.4%	33% 6% 2% 1% 102.9% -2.9%	30% 5% 2% 1% 100.6% -0.6%	29% 5% 2% 1% 100.2% -0.2%	31% 5% 1% 2% 102.6% -2.6%	27% 4% 1% 1% 100.5% -0.5%	25% 4% 1% 1% 100.3% -0.3%	28% 5% 1% 2% 101.5% -1.5%	30% 5% 2% 1% 102.4% -2.4%	31% 3% 2% 1% 102.3% -2.3%	5% 2% 1% 103.1% -3.1%
Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market Balancing Energy + Total MWH	30% 5% 2% 1% 101.0% -1.0% 15,004,132	32% 5% 2% 1% 102.4% -2.4% 12,344,477	33% 6% 2% 1% 102.9% -2.9% 13,134,575	30% 5% 2% 1% 100.6% -0.6% 12,085,824	29% 5% 2% 1% 100.2% -0.2% 12,691,534	31% 5% 1% 2% 102.6% -2.6% 13,629,272	27% 4% 1% 1% 100.5% -0.5% 16,759,556	25% 4% 1% 1% 100.3% -0.3% 17,150,715	28% 5% 1% 2% 101.5% -1.5% 14,222,196	30% 5% 2% 1% 102.4% -2.4% 13,233,943	31% 3% 2% 1% 102.3% -2.3% 13,201,857	5% 2% 1% 103.1% -3.1% 14,021,712
Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market Balancing Energy +	30% 5% 2% 1% 101.0% -1.0%	32% 5% 2% 1% 102.4% -2.4%	33% 6% 2% 1% 102.9% -2.9%	30% 5% 2% 1% 100.6% -0.6%	29% 5% 2% 1% 100.2% -0.2%	31% 5% 1% 2% 102.6% -2.6%	27% 4% 1% 1% 100.5% -0.5%	25% 4% 1% 1% 100.3% -0.3%	28% 5% 1% 2% 101.5% -1.5%	30% 5% 2% 1% 102.4% -2.4%	31% 3% 2% 1% 102.3% -2.3%	5% 2% 1% 103.1% -3.1%

+ 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.

<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

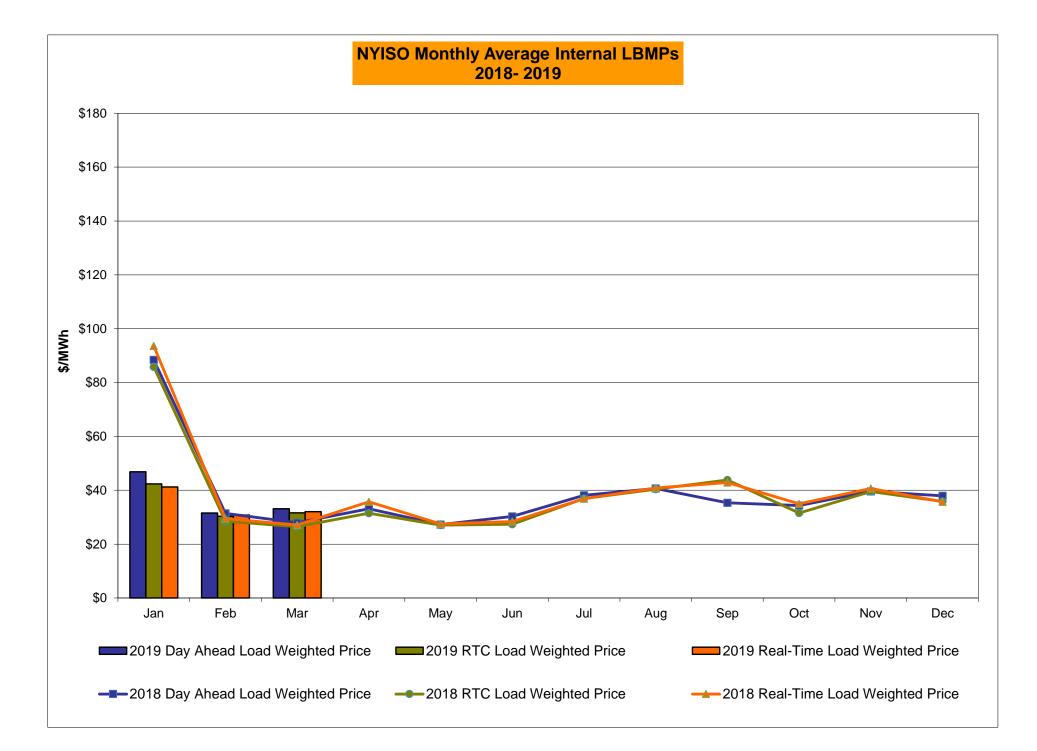
#### NYISO Markets 2019 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	July	August September	October November December
DAY AHEAD LBMP									
Price *	\$45.01	\$30.66	\$32.34						
Standard Deviation	\$25.67	\$12.86	\$9.30						
Load Weighted Price **	\$46.88	\$31.53	\$33.14						
RTC LBMP									
Price *	\$40.86	\$29.74	\$31.04						
Standard Deviation	\$23.02	\$10.79	\$8.48						
Load Weighted Price **	\$42.39	\$30.32	\$31.62						
REAL TIME LBMP									
Price *	\$39.54	\$30.13	\$31.46						
Standard Deviation	\$26.03	\$13.77	\$12.54						
Load Weighted Price **	\$41.24	\$30.80	\$32.06						
Average Daily Energy Sendout/Month GWh	449	436	411						

#### NYISO Markets 2018 Energy Statistics

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

\* Average zonal load weighted prices.
\*\* Average zonal load weighted prices, load weighted in each hour.

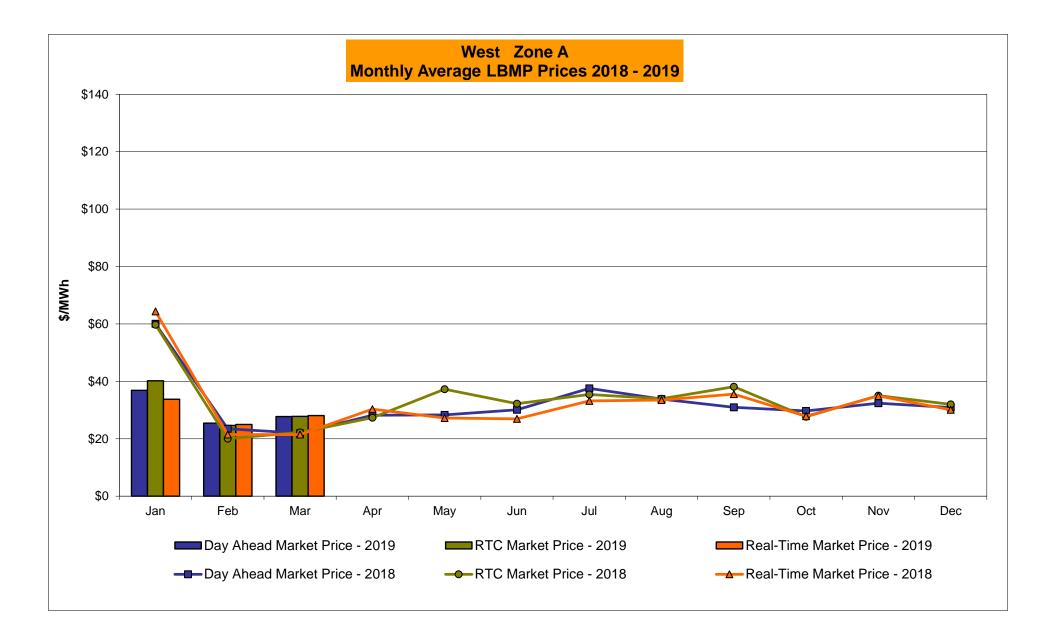


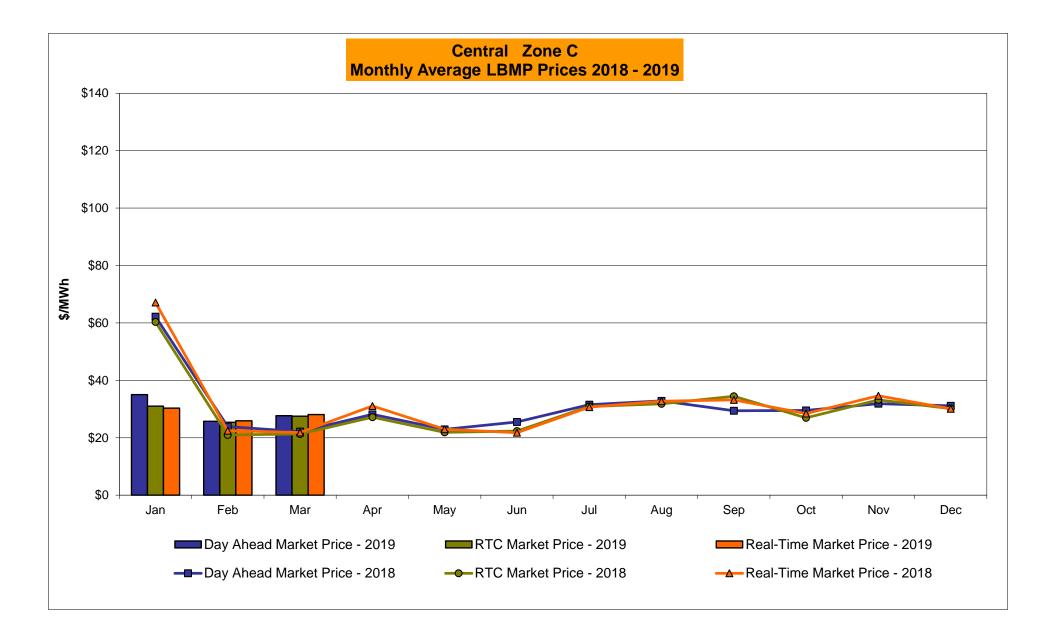
#### March 2019 Zonal LBMP Statistics for NYISO (\$/MWh)

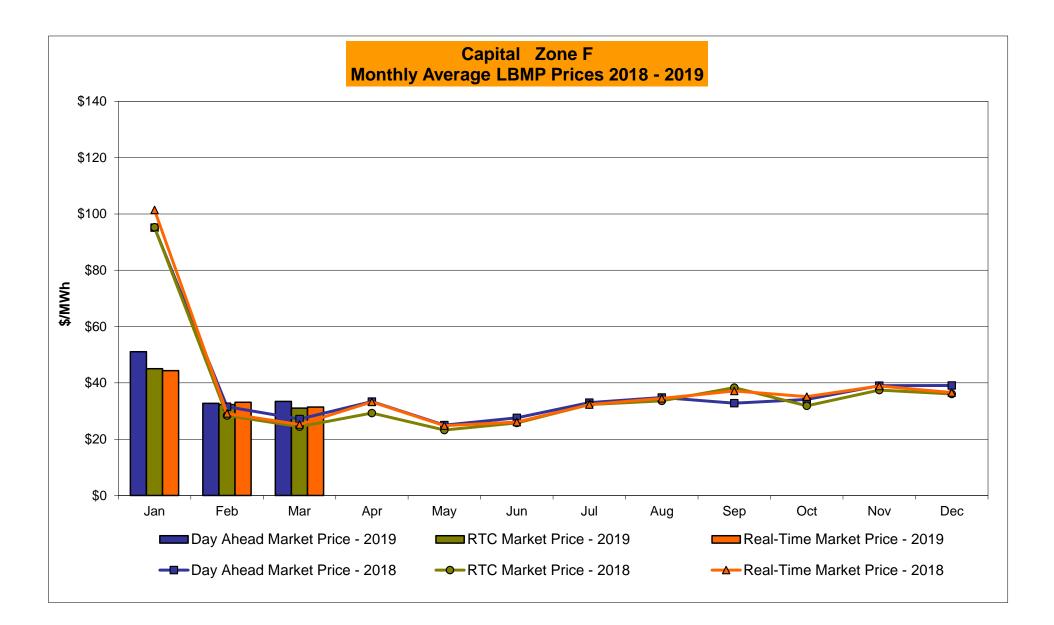
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	<u>Zone I</u>	<u>Zone J</u>	Zone K
DAY AHEAD LBMP											
Unweighted Price *	27.74	26.74	24.59	27.67	28.06	33.39	32.96	33.39	33.62	35.00	37.99
Standard Deviation	8.33	7.04	6.98	7.13	7.36	10.28	8.65	8.77	9.01	11.00	14.52
RTC LBMP											
Unweighted Price *	27.77	26.69	24.77	27.50	27.97	31.03	31.52	31.82	31.89	33.09	35.72
Standard Deviation	10.26	7.56	8.06	7.37	7.56	9.21	8.02	8.08	8.07	9.26	19.07
REAL TIME LBMP											
Unweighted Price *	28.08	27.28	25.30	28.07	28.55	31.42	32.06	32.38	32.46	33.71	35.57
Standard Deviation	16.27	12.22	11.90	11.60	11.82	12.41	12.33	12.46	12.49	13.18	16.38

	ONTARIO	HYDRO QUEBEC	HYDRO			CROSS SOUND	NORTHPORT-				
			QUEBEC	р ім	NEW ENGLAND		NORTHPORT	NEPTUNE	LINDEN VFT	HUDSON	Donnicon
	IESO	(wneer)	(Import/Export)	PJM	ENGLAND	CABLE	-	_			Dennison
						<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>
	<u>Zone O</u>	<u>Zone M</u>	Zone M	<u>Zone P</u>	<u>Zone N</u>	<u>Line</u>	Line	Line	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	25.86	25.15	25.15	29.66	36.69	37.66	37.35	36.20	33.29	33.81	24.16
Standard Deviation	6.31	6.78	6.78	7.24	13.84	15.27	15.15	14.01	8.87	9.10	6.75
RTC LBMP											
Unweighted Price *	25.10	25.17	25.17	28.96	36.86	35.20	34.62	33.94	31.78	31.10	24.76
Standard Deviation	6.42	7.89	7.89	7.36	17.95	19.61	19.56	19.34	8.08	8.85	7.80
REAL TIME LBMP											
Unweighted Price *	25.49	25.50	25.50	29.42	34.38	35.22	35.34	34.06	32.23	32.49	25.27
Standard Deviation	11.29	9.94	9.94	11.51	14.75	16.56	17.90	15.84	12.98	12.53	11.63

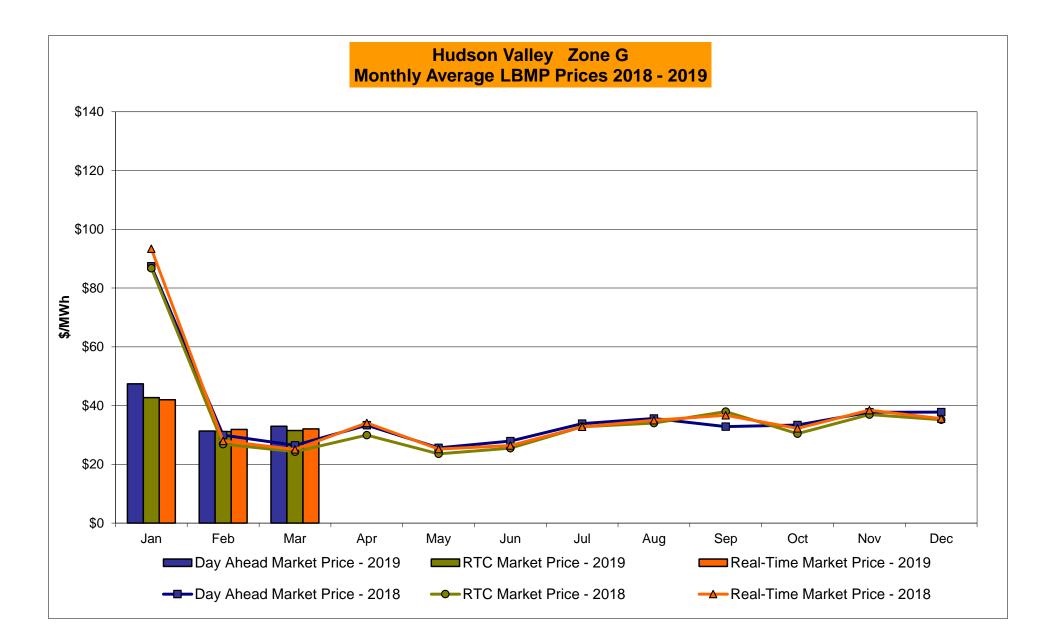
\* Straight LBMP averages

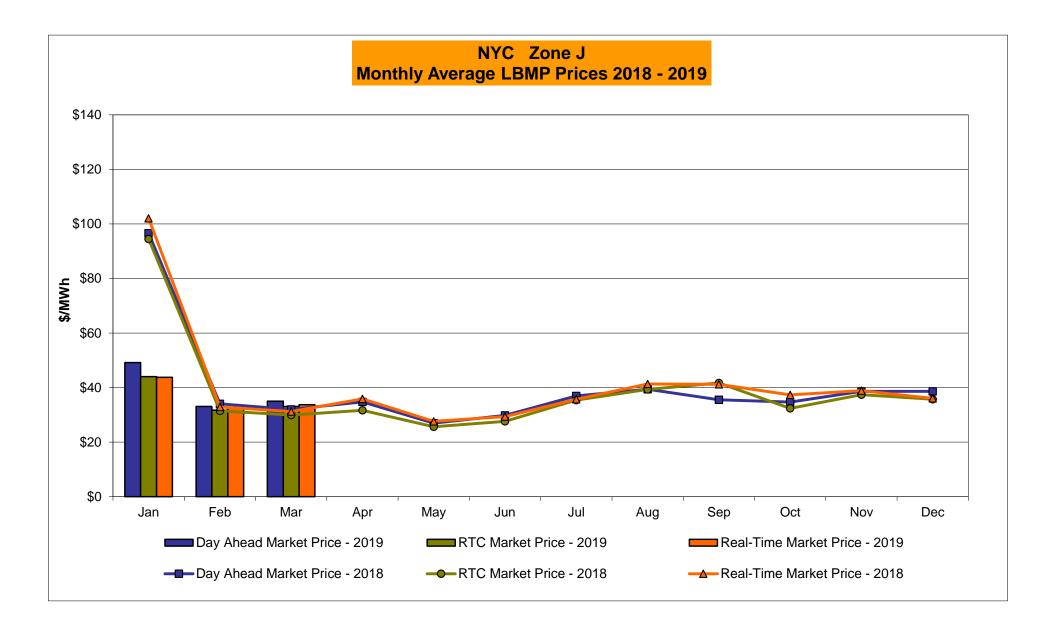


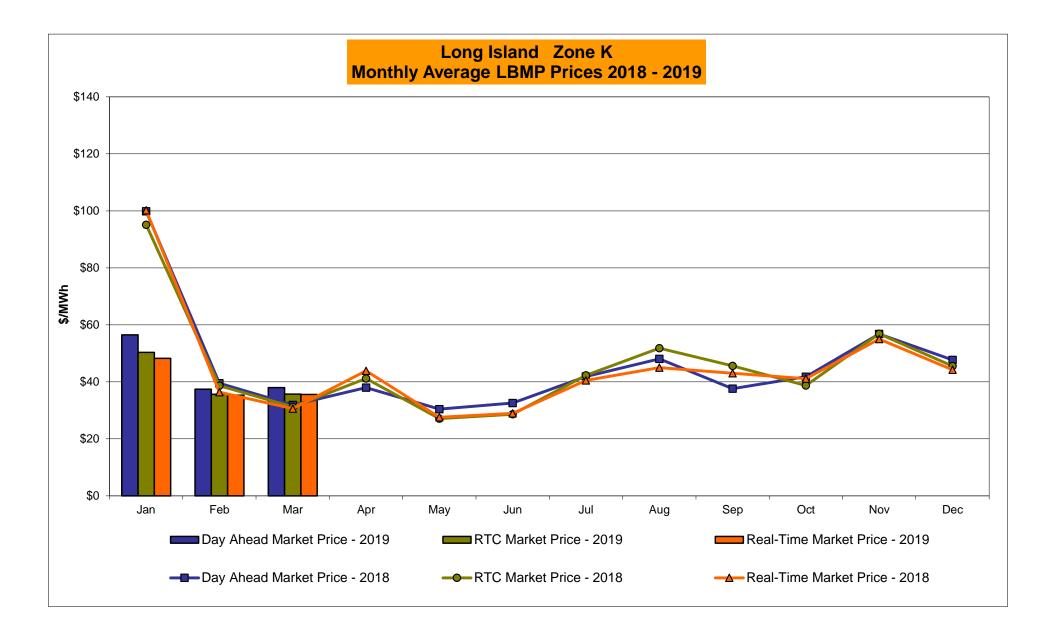


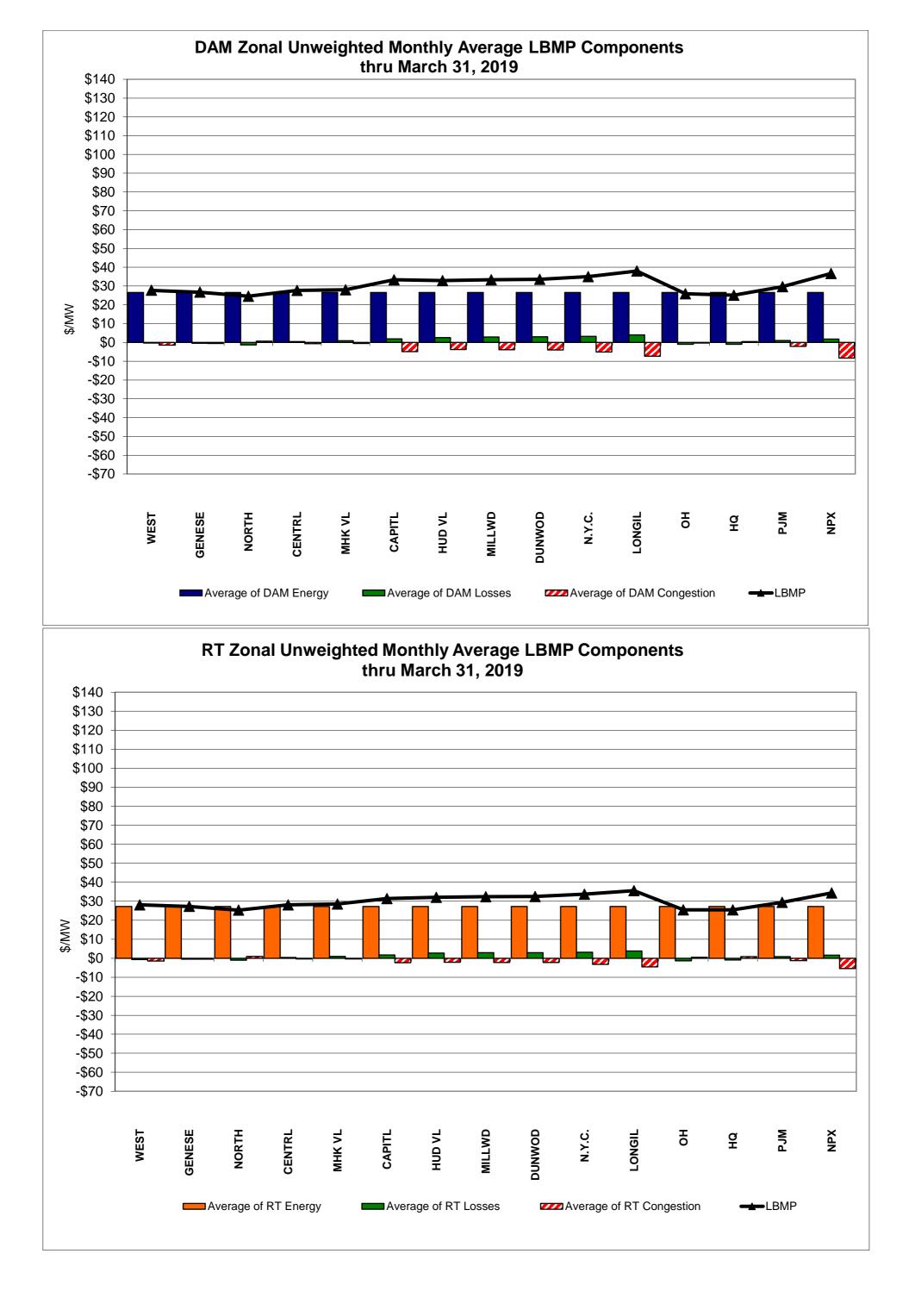


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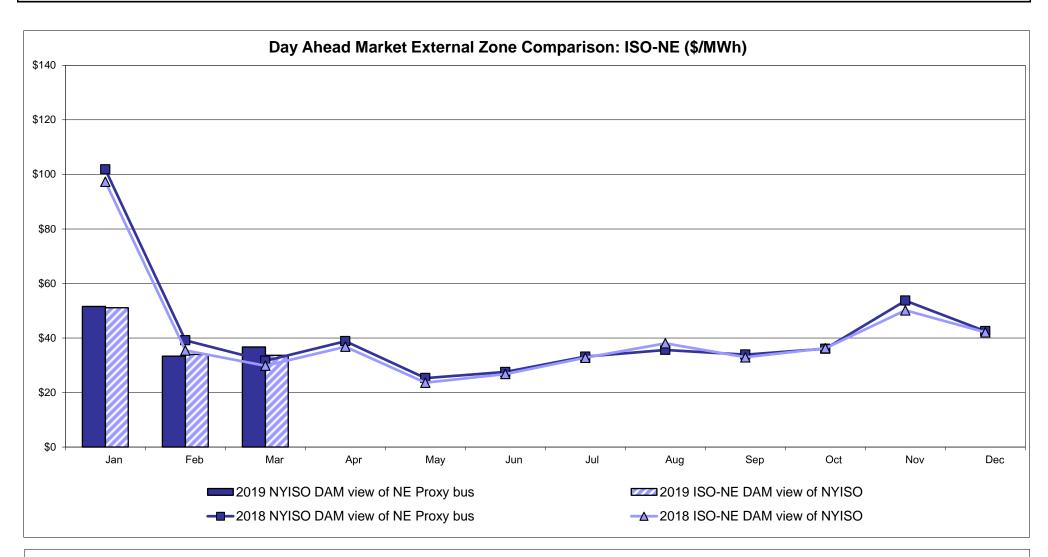


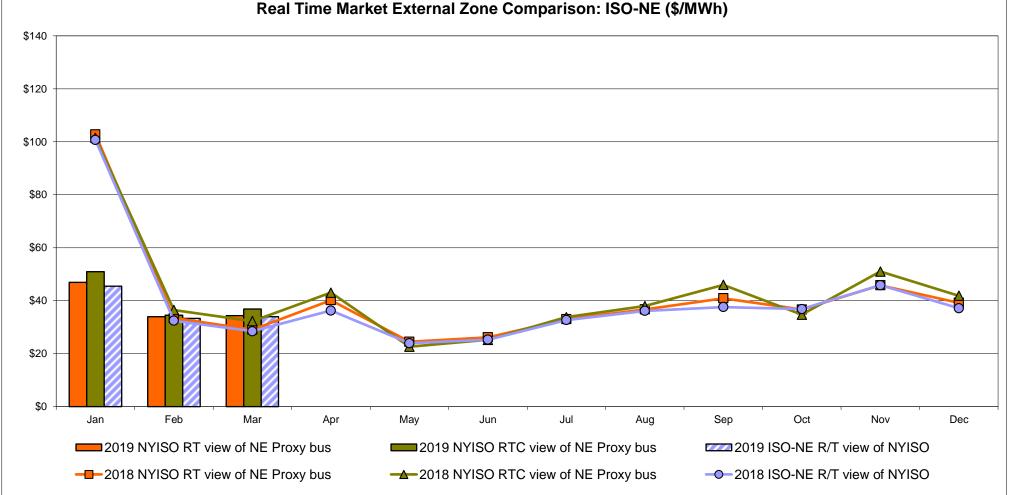


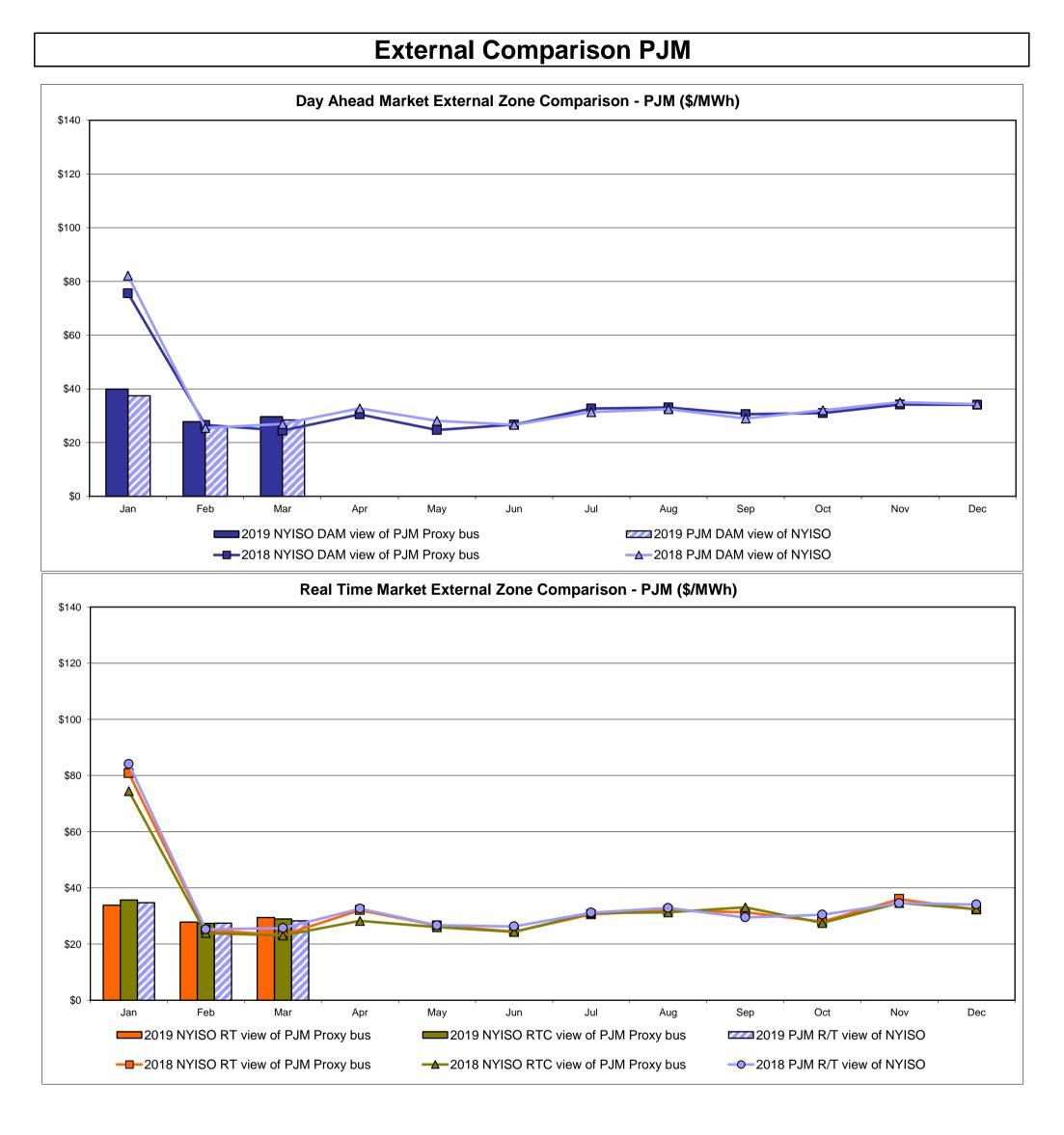




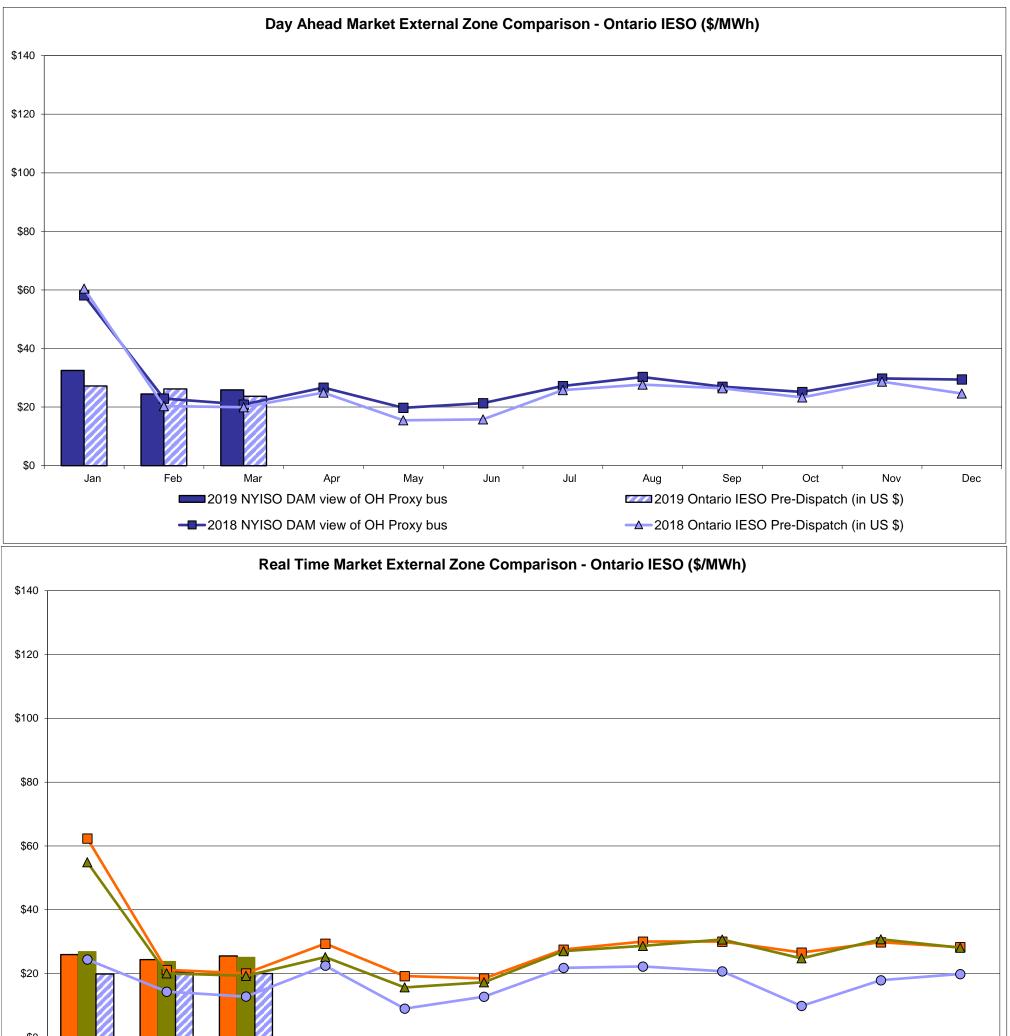
# External Comparison ISO-New England







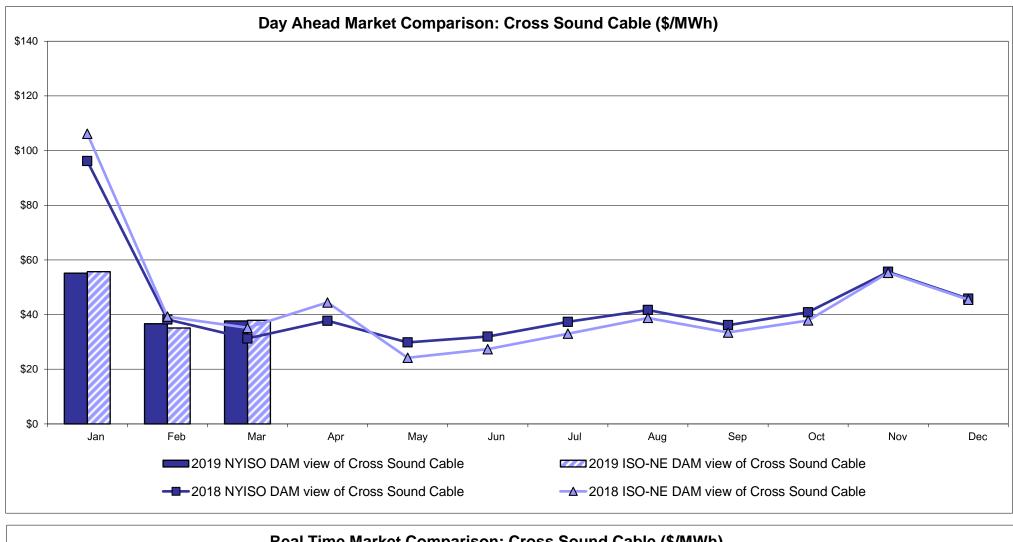
### **External Comparison Ontario IESO**



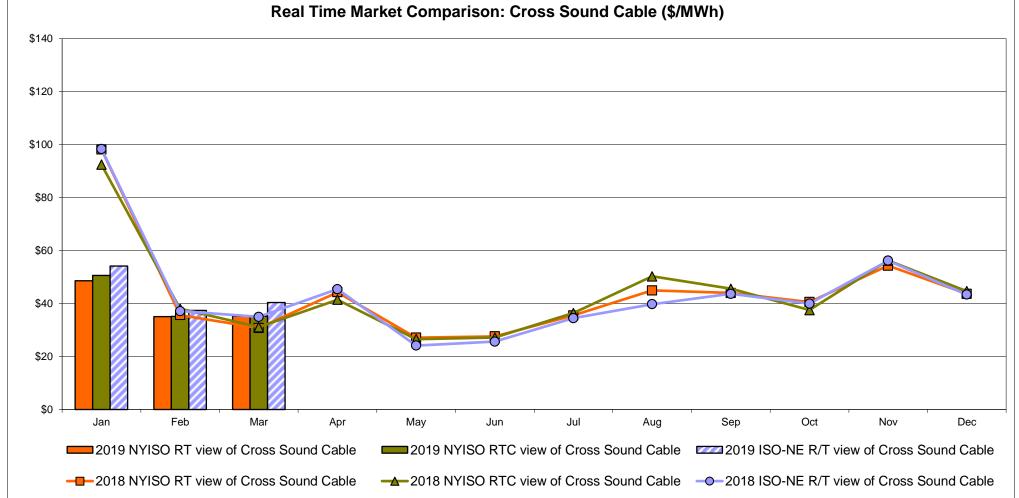
\$0 +-•	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	<b>20</b> 1	19 NYISO RT v	riew of OH Pro	oxy bus	2019	NYISO RTC	view of OH P	Proxy bus	2019	Ontario IESC	HOEP (in US	\$ \$)
	<b></b> 201	18 NYISO RT v	view of OH Pro	oxy bus	<b></b> 2018	NYISO RTC	view of OH P	Proxy bus	-0-2018	Ontario IESC	HOEP (in US	S \$)

Notes: Exchange factor used for March 2019 was 0.747887218607434 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

Market Mitigation and Analysis Prepared: 4/8/2019 10:08 AM



#### **External Controllable Line: Cross Sound Cable (New England)**

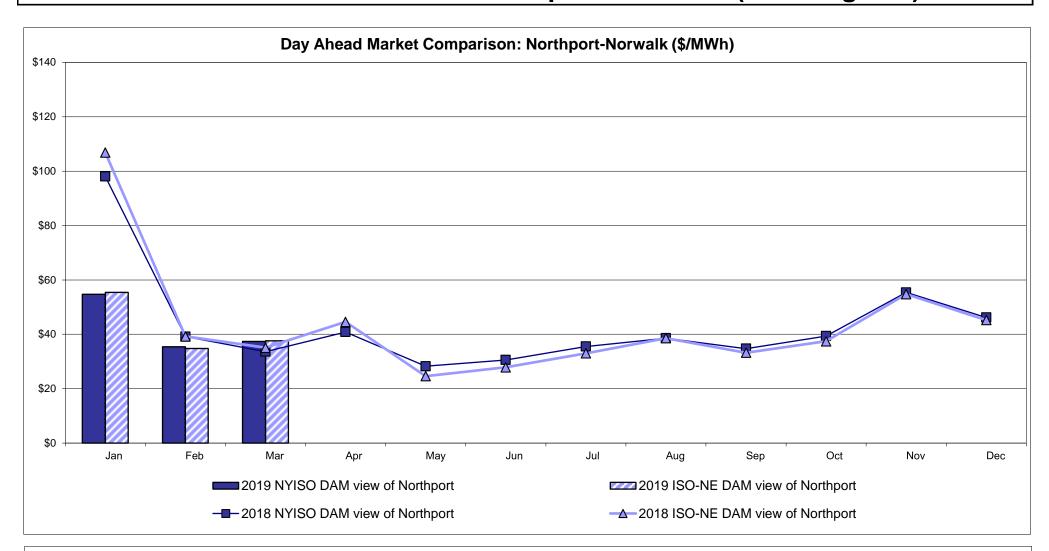


Note:

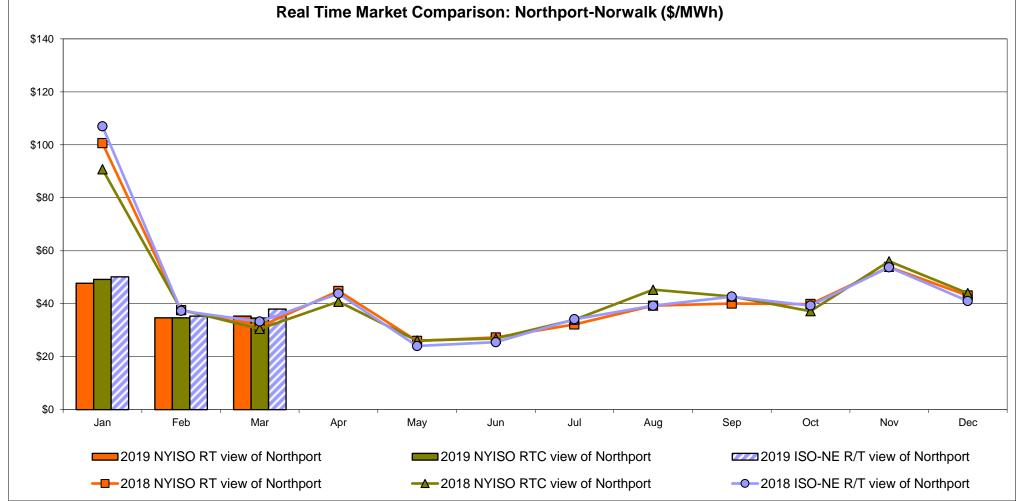
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



### External Controllable Line: Northport - Norwalk (New England)

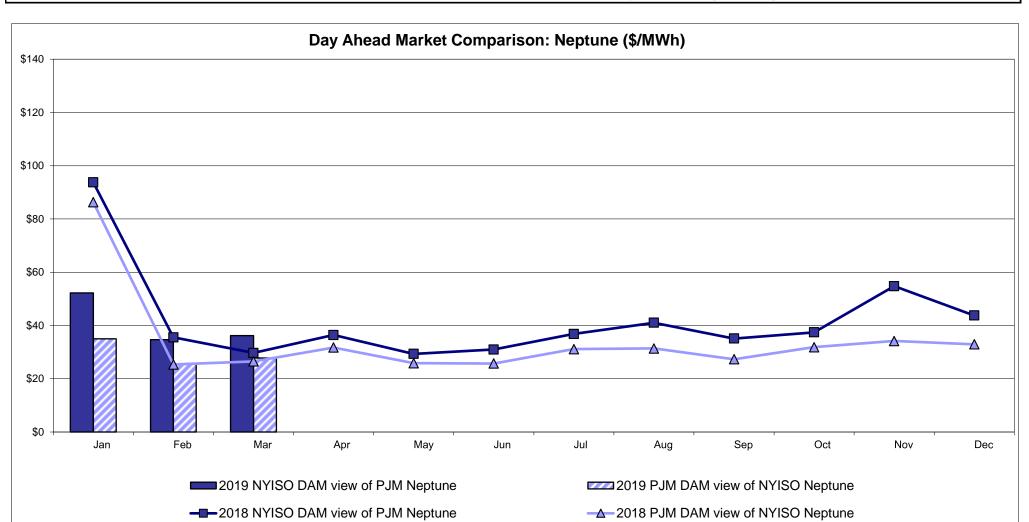


Note:

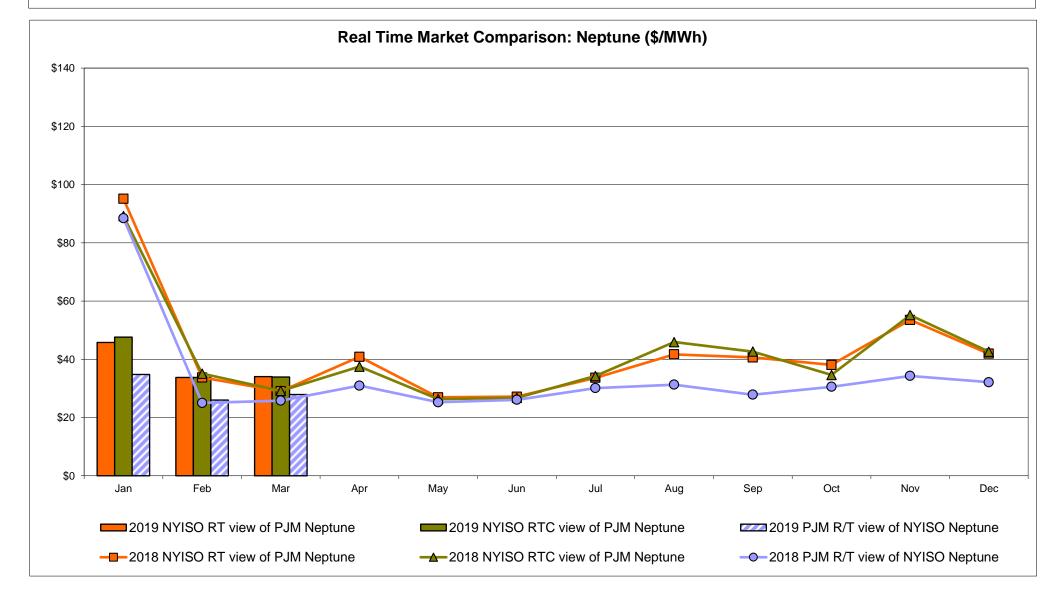
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

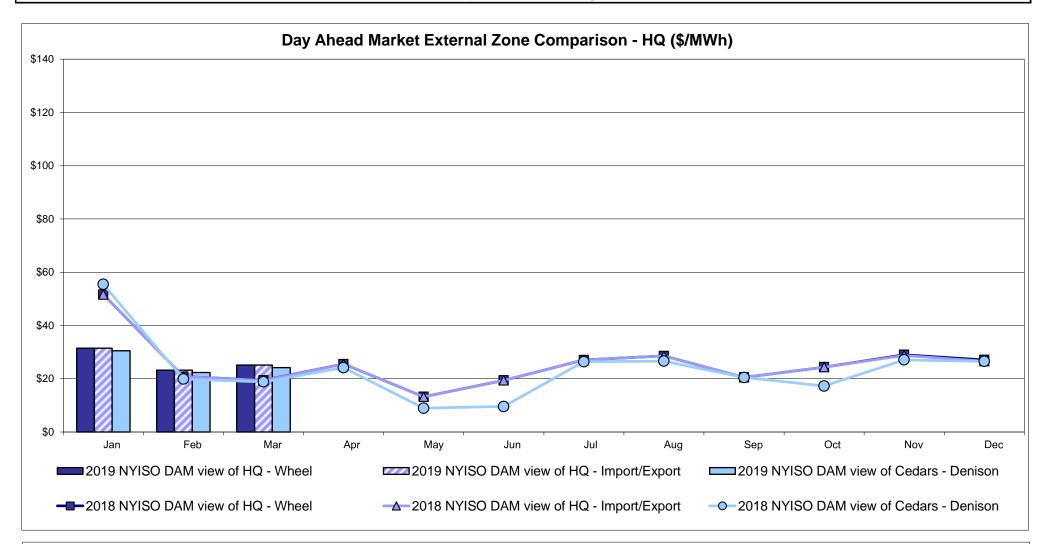
The DAM and R/T prices at the 1385 interface are used for NYISO.

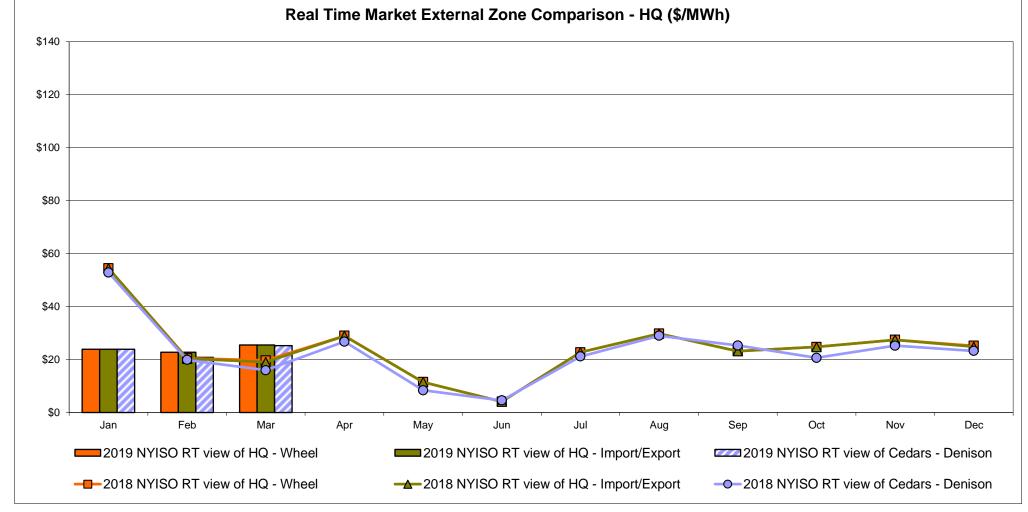


# **External Controllable Line: Neptune (PJM)**



# External Comparison Hydro-Quebec

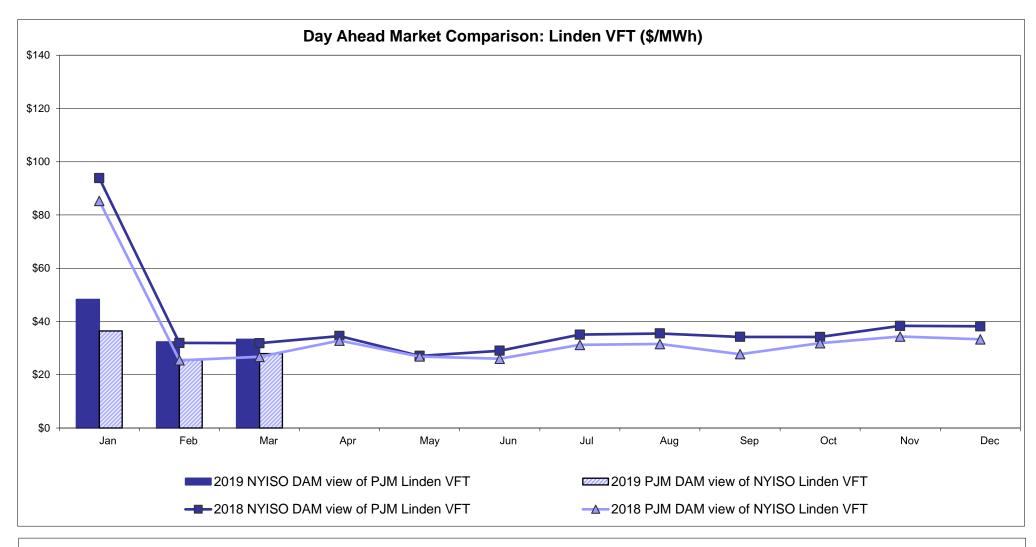


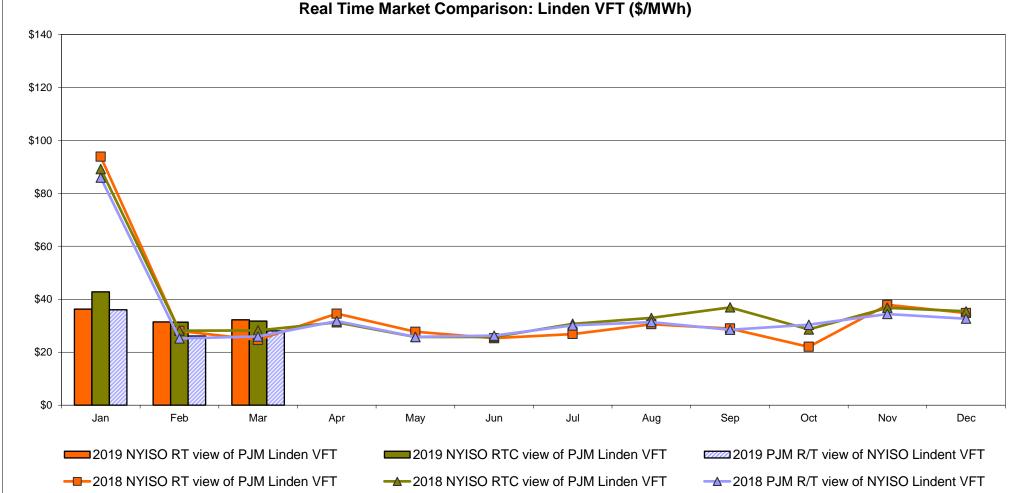


Note:

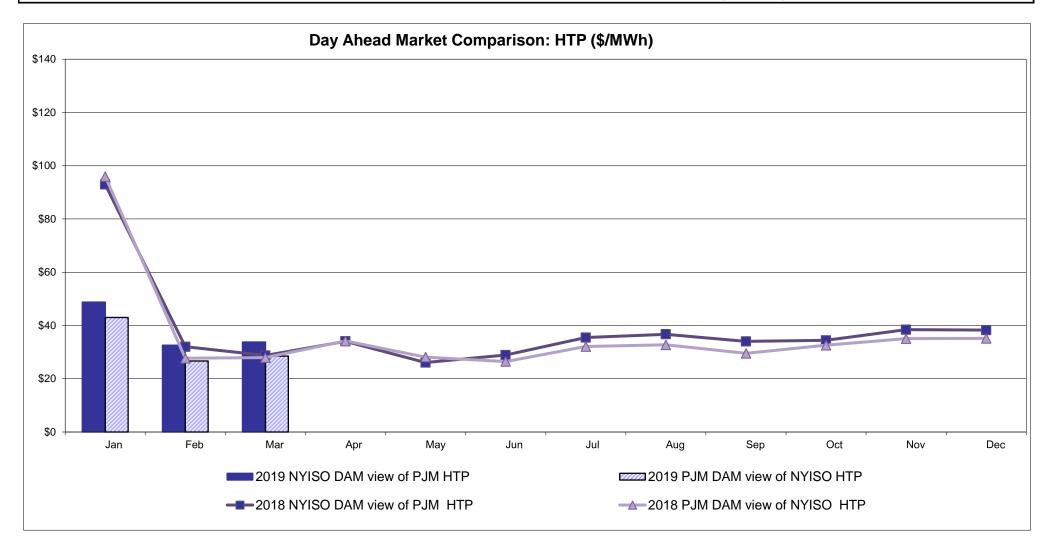
Hydro-Quebec Prices are unavailable.

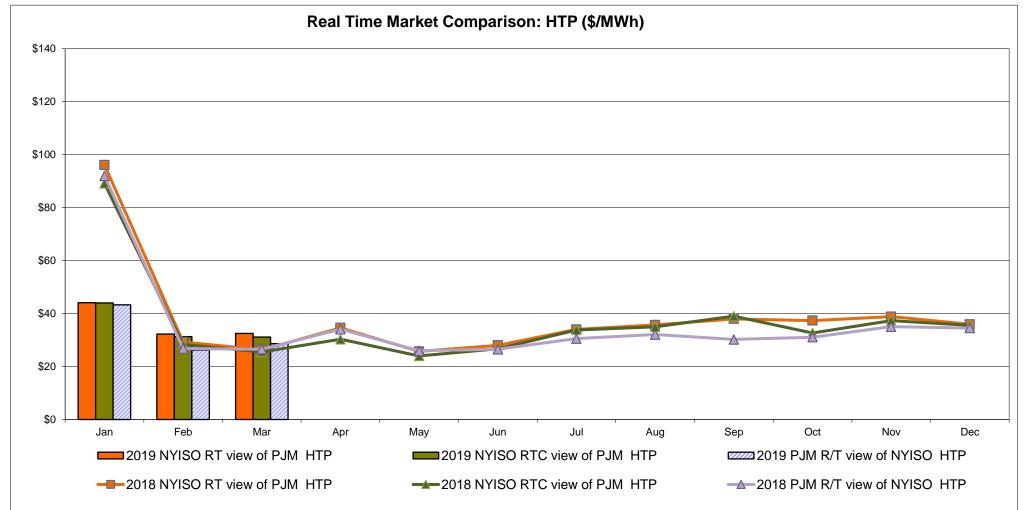






### **External Controllable Line: Hudson (PJM)**



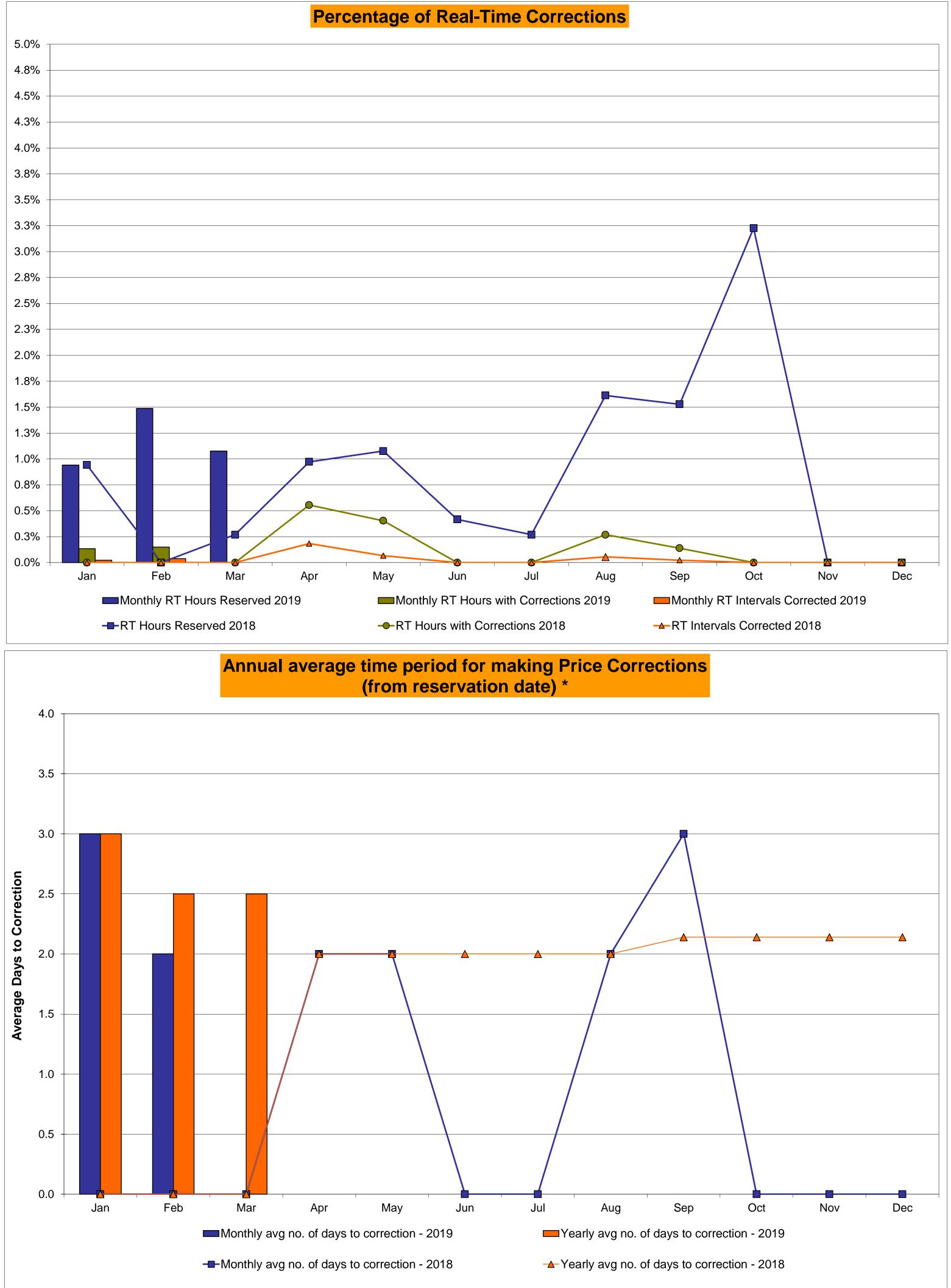


#### **NYISO Real Time Price Correction Statistics**

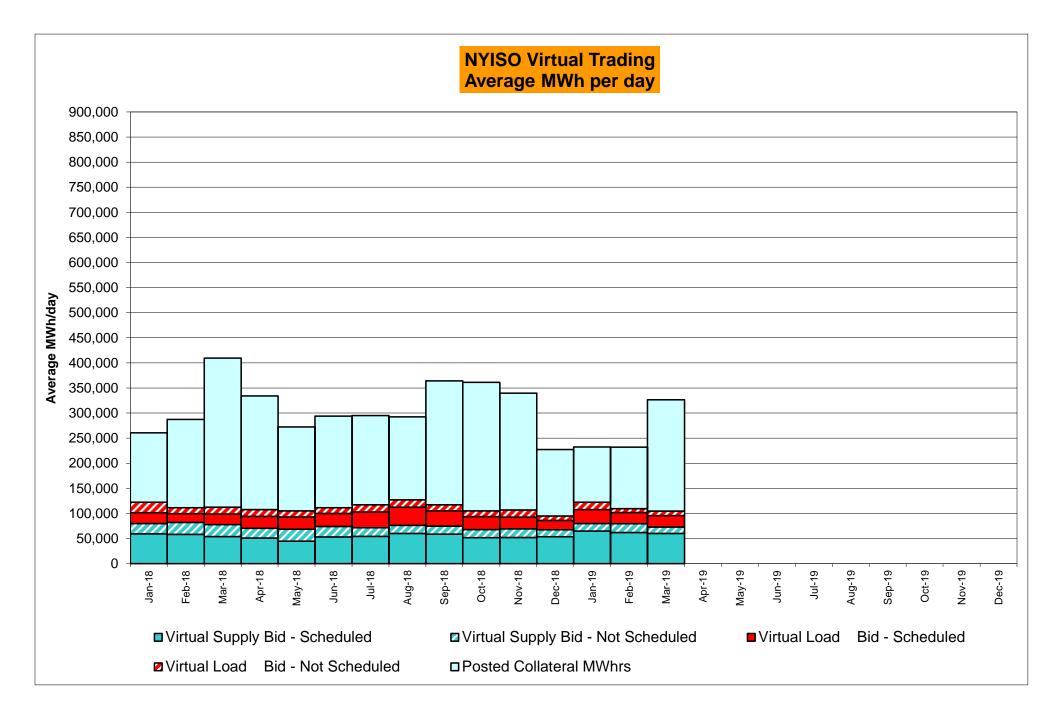
2019		<u>January</u>	February	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	1	1	0									
Number of hours	in the month	744	672	743									
% of hours with corrections	in the month	0.13%	0.15%	0.00%									
% of hours with corrections Interval Corrections	year-to-date	0.13%	0.14%	0.09%									
Number of intervals corrected	in the month	2	3	0									
Number of intervals	in the month	9,071	8,131	9,008									
% of intervals corrected	in the month	0.02%	0.04%	0.00%									
% of intervals corrected	year-to-date	0.02%	0.03%	0.02%									
Hours Reserved	year-to-date	0.0270	0.0070	0.0270									
Number of hours reserved	in the month	7	10	8									
Number of hours	in the month	744	672	743									
% of hours reserved	in the month	0.94%	1.49%	1.08%									
% of hours reserved			1.20%	1.16%									
Days to Correction *	year-to-date	0.94%	1.20%	1.10%									
Avg. number of days to correction	in the month	3.00	2.00	0.00									
Avg. number of days to correction	year-to-date	3.00	2.50	2.50									
Days Without Corrections	your to date	0.00	2.00	2.00									
Days without corrections	in the month	30	27	31									
Days without corrections	year-to-date	30	57	88									
	,		_										
<u>2018</u>		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
2018 Hour Corrections		January	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	0	0	0	4	3	0	0	2	1	0	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month in the month	0 744	0 672	0 743			0 720			<u>September</u> 1 720	0 744	0 721	
Hour Corrections Number of hours with corrections		0	0	0	4	3	0	0	2	1	0	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	0 672	0 743	4 720	3 744	0 720	0 744	2 744	1 720	0 744	0 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	0 672 0.00%	0 743 0.00%	4 720 0.56%	3 744 0.40%	0 720 0.00%	0 744 0.00%	2 744 0.27%	1 720 0.14%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	0 744 0.00%	0 672 0.00%	0 743 0.00%	4 720 0.56%	3 744 0.40%	0 720 0.00%	0 744 0.00%	2 744 0.27%	1 720 0.14%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	0 744 0.00% 0.00%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected	in the month in the month year-to-date in the month	0 744 0.00% <u>0.00%</u> 0	0 672 0.00% <u>0.00%</u> 0	0 743 0.00% <u>0.00%</u> 0	4 720 0.56% <u>0.14%</u> 16	3 744 0.40% <u>0.19%</u> 6	0 720 0.00% <u>0.16%</u> 0	0 744 0.00% <u>0.14%</u> 0	2 744 0.27% <u>0.15%</u> 5	1 720 0.14% <u>0.15%</u> 2	0 744 0.00% <u>0.14%</u> 0	0 721 0.00% <u>0.12%</u> 0	0 744 0.00% <u>0.11%</u> 0
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,021	0 672 0.00% <u>0.00%</u> 0 8,112	0 743 0.00% 0.00% 0 9,002	4 720 0.56% 0.14% 16 8,717	3 744 0.40% <u>0.19%</u> 6 9,033	0 720 0.00% 0.16% 0 8,723	0 744 0.00% 0.14% 0 9,021	2 744 0.27% 0.15% 5 9,071	1 720 0.14% 0.15% 2 8,723	0 744 0.00% <u>0.14%</u> 0 8,990	0 721 0.00% 0.12% 0 8,763	0 744 0.00% <u>0.11%</u> 0 8,993
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% <u>0.00%</u> 0 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 0 9,002 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% <u>0.19%</u> 6 9,033 0.07%	0 720 0.00% <u>0.16%</u> 0 8,723 0.00%	0 744 0.00% 0.14% 0 9,021 0.00%	2 744 0.27% 0.15% 5 9,071 0.06%	1 720 0.14% <u>0.15%</u> 2 8,723 0.02%	0 744 0.00% <u>0.14%</u> 0 8,990 0.00%	0 721 0.00% 0.12% 0 8,763 0.00%	0 744 0.00% <u>0.11%</u> 0 8,993 0.00%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% <u>0.00%</u> 0 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 0 9,002 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% <u>0.19%</u> 6 9,033 0.07%	0 720 0.00% <u>0.16%</u> 0 8,723 0.00%	0 744 0.00% 0.14% 0 9,021 0.00%	2 744 0.27% 0.15% 5 9,071 0.06%	1 720 0.14% <u>0.15%</u> 2 8,723 0.02%	0 744 0.00% <u>0.14%</u> 0 8,990 0.00%	0 721 0.00% 0.12% 0 8,763 0.00%	0 744 0.00% <u>0.11%</u> 0 8,993 0.00%
Hour Corrections         Number of hours with corrections         Number of hours         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected	in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% <u>0.00%</u> 0 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% <u>0.19%</u> 6 9,033 0.07% <u>0.05%</u>	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% <u>0.15%</u> 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% <u>0.14%</u> 0 8,990 0.00% 0.03%	0 721 0.00% <u>0.12%</u> 0 8,763 0.00% 0.03%	0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u>
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,021 0.00% 0.00% 7	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7	3 744 0.40% <u>0.19%</u> 6 9,033 0.07% <u>0.05%</u> 8	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11	0 744 0.00% 0.14% 0 8,990 0.00% 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0	0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u> 0
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedNumber of hours reservedNumber of hours reservedNumber of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 0,00% 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00%	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00%	0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u> 0 744 0.00%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0,00% 0.00% 0.00% 7 744	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721	0 744 0.00% <u>0.11%</u> 0 8,993 0.00% 0.03% 0 744
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals correctedNumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 0,00% 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00%	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00%	0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u> 0 744 0.00%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved% of hours reserved% of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 9,021 0.00% 0.00% 7 744 0.94% 0.94% 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0.00% 0.49% 0.00	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27% 0.42% 0.00	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62% 0.00	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57% 0.00	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70% 2.00	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0.03% 0 721 0.00% 0.95% 0.00	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0.03% 0 744 0.00% 0.87% 0.00
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reserved% of hours reserved <td>in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month</td> <td>0 744 0.00% 0.00% 9,021 0.00% 0.00% 7 744 0.94% 0.94%</td> <td>0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%</td> <td>0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27% 0.42%</td> <td>4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00</td> <td>3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66% 2.00</td> <td>0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%</td> <td>0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%</td> <td>2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%</td> <td>1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79% 3.00</td> <td>0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04% 0.00</td> <td>0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%</td> <td>0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u> 0 744 0.00% <u>0.87%</u></td>	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	0 744 0.00% 0.00% 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66% 2.00	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79% 3.00	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04% 0.00	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% <u>0.11%</u> 0 8,993 0.00% <u>0.03%</u> 0 744 0.00% <u>0.87%</u>
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reserved% of number of days to correctionAvg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	0 744 0.00% 0.00% 9,021 0.00% 0.00% 7 744 0.94% 0.94% 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0.00% 0.49% 0.00	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27% 0.42% 0.00	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66% 2.00	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62% 0.00	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57% 0.00	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70% 2.00	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79% 3.00	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04% 0.00	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0.03% 0 721 0.00% 0.95% 0.00	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0.03% 0 744 0.00% 0.87% 0.00
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reservedNumber of hours reserved% of hours reservedDays to Correction *Avg. number of days to correctionAvg. number of days to correctionDays Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 9,021 0.00% 0.00% 7 744 0.94% 0.94% 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0.00% 0.49% 0.00 0.00	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27% 0.42% 0.00 0.00	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66% 2.00 2.00	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62% 0.00 2.00	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57% 0.57% 0.00 2.00	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70% 2.00 2.00	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79% 3.00 2.14	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04% 0.00 2.14	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0.03% 0.03% 0.00% 0.95% 0.00 2.14	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0.03% 0.03% 0.00% 0.87% 0.00 2.14

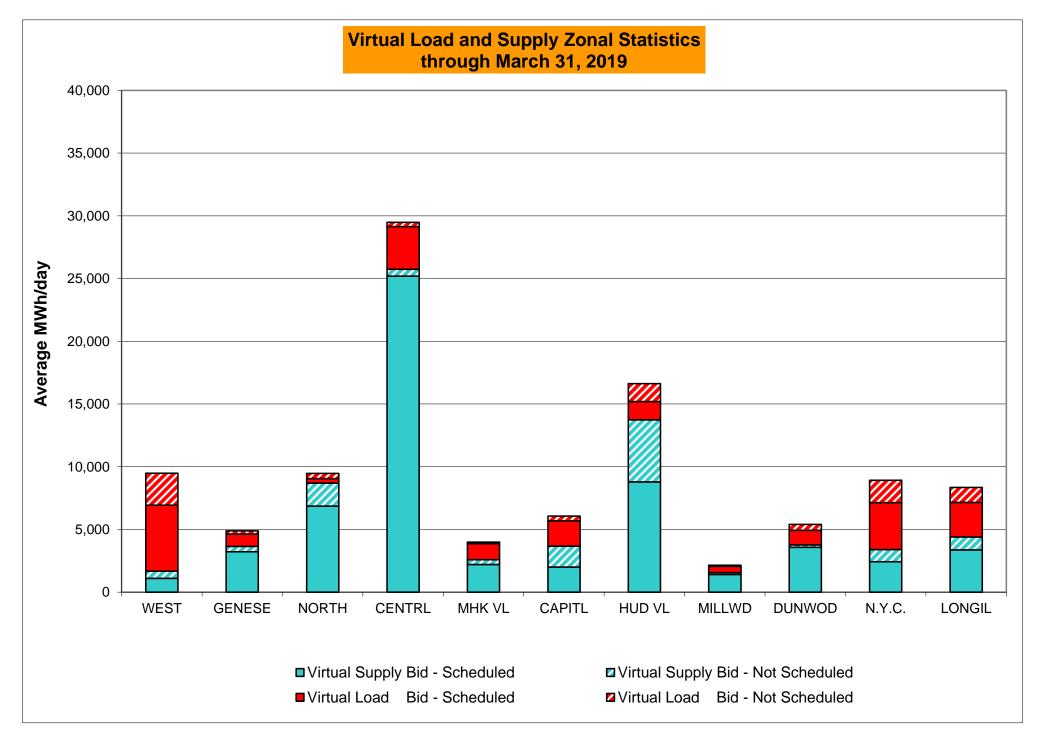
\*Calendar days from reservation date; for June 2018 forward, business days from market date

May/June 2017 Hours Reserved data has been updated for the July 2017 Monthly Market Operations Report.



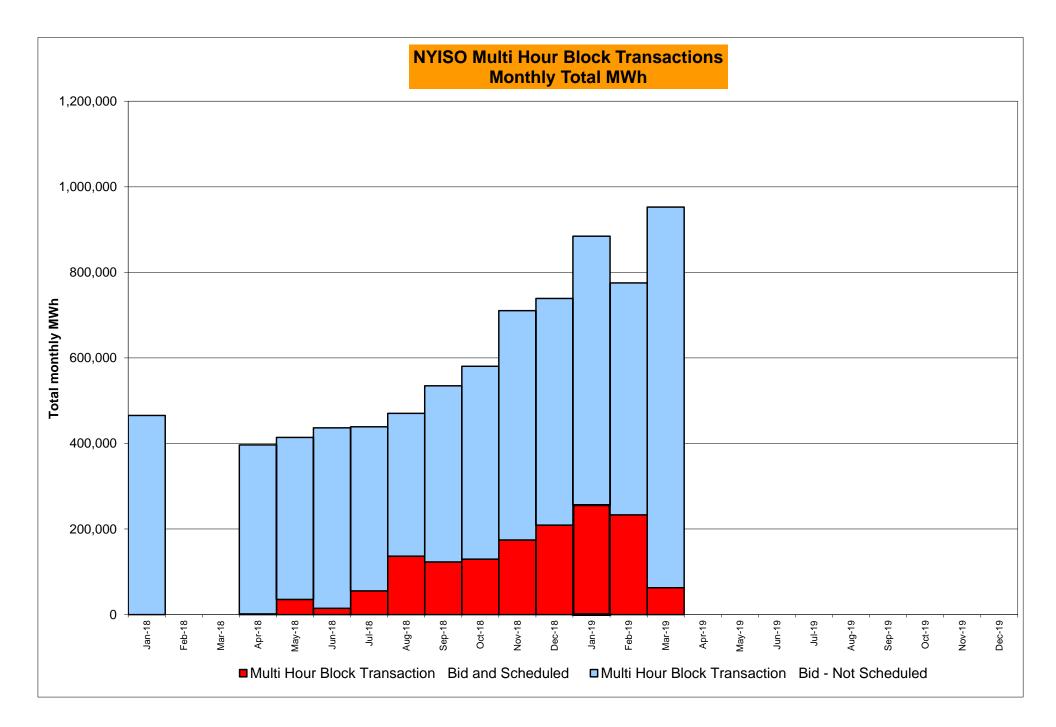
\*Calendar days from reservation date; for June 2018 forward, business days from market date

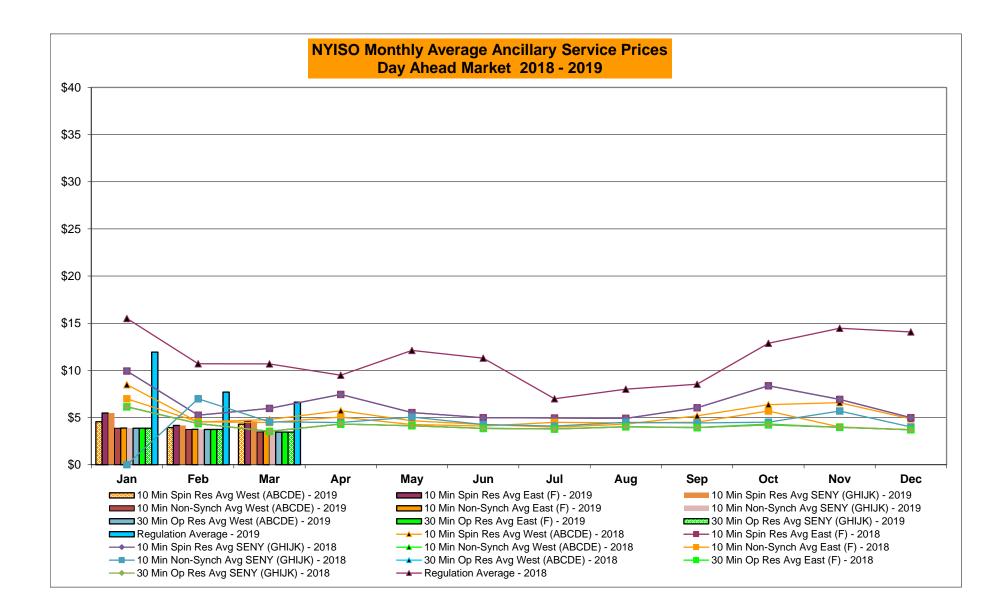


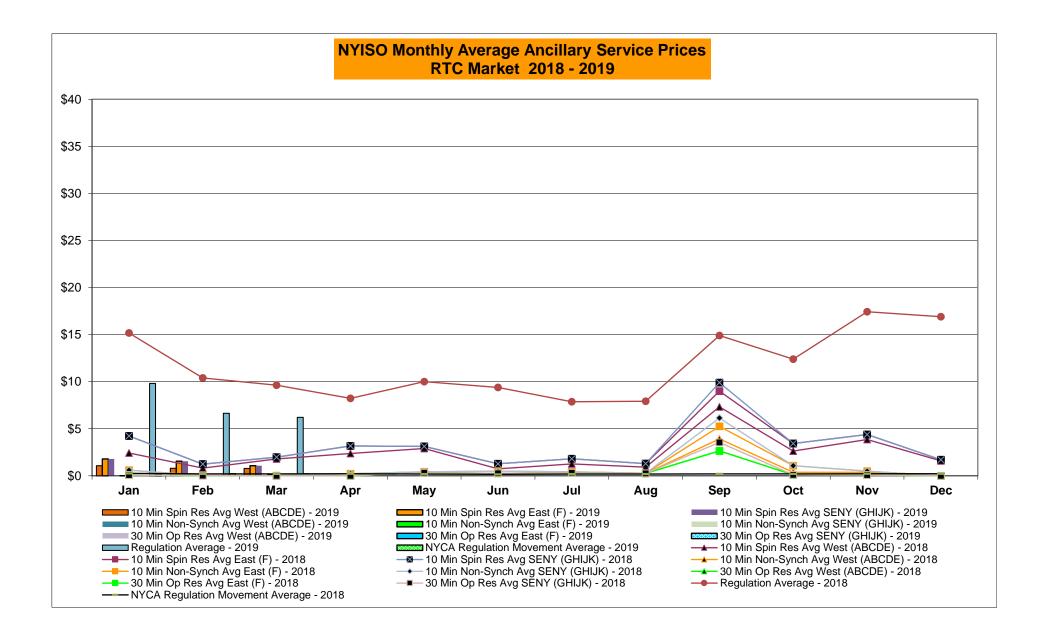


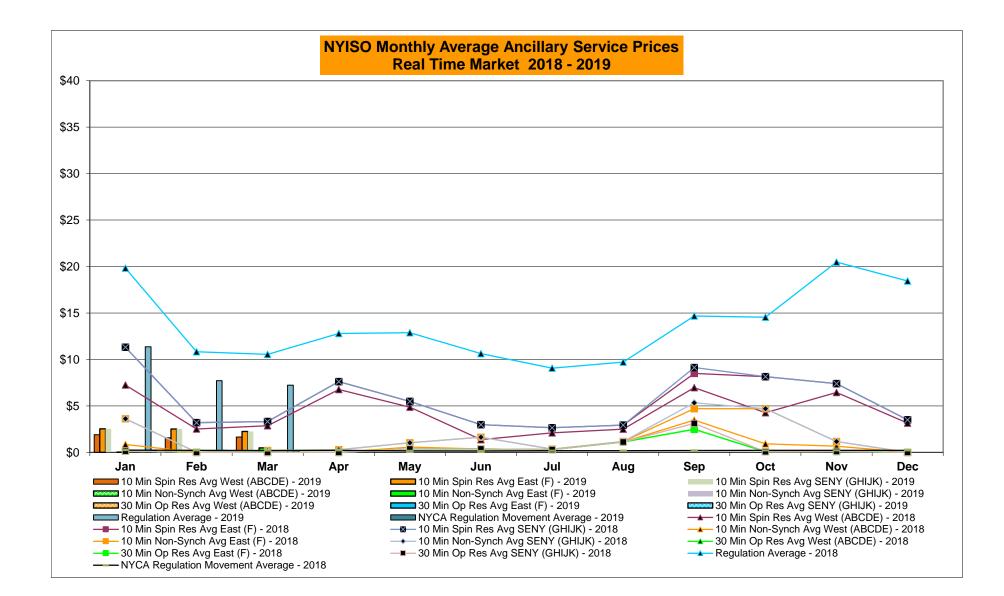
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2019

		Virtual L	oad Bid Not	Virtual S	upply Bid Not			Virtual L	Load Bid	Virtual Su	Not			Virtual L	oad Bid	Virtual Su	upply Bid Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled		Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
NEST	Jan-19	9,007	5,211	1,609	797	MHK VL	Jan-19	1,171		1,965	471	DUNWOD	Jan-19	1,370		2,651	203
	Feb-19	6,628	2,000	1,397	921		Feb-19	872	75	1,709	596		Feb-19	1,064	494	3,273	
	Mar-19	5,264	2,548	1,107	569		Mar-19		113	2,208	386		Mar-19	1,159	471	3,571	199
	Apr-19						Apr-19						Apr-19				
	May-19						May-19						May-19				
	Jun-19					_	Jun-19						Jun-19				
	Jul-19						Jul-19						Jul-19				
	Aug-19 Sep-19					_	Aug-19 Sep-19						Aug-19 Sep-19				
	Oct-19						Oct-19						Oct-19				
	Nov-19						Nov-19						Nov-19				
	Dec-19						Dec-19						Dec-19				
	lan 10	507	450	0.500	500		1	2.040	000	4 550	4.404		1	0.005	0.004	0.500	4 000
GENESE	Jan-19	527	153	3,560		CAPITL	Jan-19			1,550		N.Y.C.	Jan-19	3,665	3,061	2,599	1,366
	Feb-19 Mar-19	896 987	66 241	3,776 3,224	520 432	_	Feb-19 Mar-19		485 383	1,851 2,004	1,756 1,666		Feb-19 Mar-19	2,545 3,746	2,025 1,774	2,248 2,432	1,648 968
	Apr-19	907	241	3,224	432		Apr-19		303	2,004	1,000		Apr-19	3,740	1,774	2,432	900
	May-19						May-19						May-19				
	Jun-19					-	Jun-19					_	Jun-19				
	Jul-19					-	Jul-19						Jul-19				
	Aug-19						Aug-19						Aug-19				
	Sep-19						Sep-19						Sep-19				
	Oct-19						Oct-19						Oct-19				
	Nov-19						Nov-19						Nov-19				
	Dec-19						Dec-19						Dec-19				
NORTH	Jan-19	484	540	6,406	1,553	HUD VL	Jan-19	856	980	9,176	7,130	LONGIL	Jan-19	3,362	2,135	3,091	1,056
	Feb-19	431	359	6,559	1,743		Feb-19	977	843	7,408	7,858		Feb-19	2,514	1,297	3,446	1,425
	Mar-19		419	6,855	1,845		Mar-19		1,425	8,787	4,948		Mar-19	2,752	1,198	3,372	1,025
	Apr-19						Apr-19						Apr-19				
	May-19						May-19						May-19				
	Jun-19						Jun-19						Jun-19				
	Jul-19						Jul-19						Jul-19				
	Aug-19					_	Aug-19						Aug-19				
	Sep-19					_	Sep-19						Sep-19				
	Oct-19						Oct-19						Oct-19				
	Nov-19 Dec-19					_	Nov-19 Dec-19						Nov-19 Dec-19				
	Dec-19						Dec-19						Dec-19				
CENTRL	Jan-19	3,795	374	30,145		MILLWD	Jan-19				169	NYISO	Jan-19	27,683	14,720	64,802	15,203
	Feb-19		123		609		Feb-19				247		Feb-19	22,118		62,089	
	Mar-19		332	25,195	542		Mar-19		89	1,404	155		Mar-19	22,918	8,993	60,159	12,736
	Apr-19						Apr-19						Apr-19				
	May-19					_	May-19						May-19				
	Jun-19					_	Jun-19						Jun-19				
	Jul-19					_	Jul-19						Jul-19				
	Aug-19					_	Aug-19						Aug-19				
		1					Sep-19	1					Sep-19				
	Sep-19																
	Oct-19 Nov-19					_	Oct-19 Nov-19						Oct-19 Nov-19				









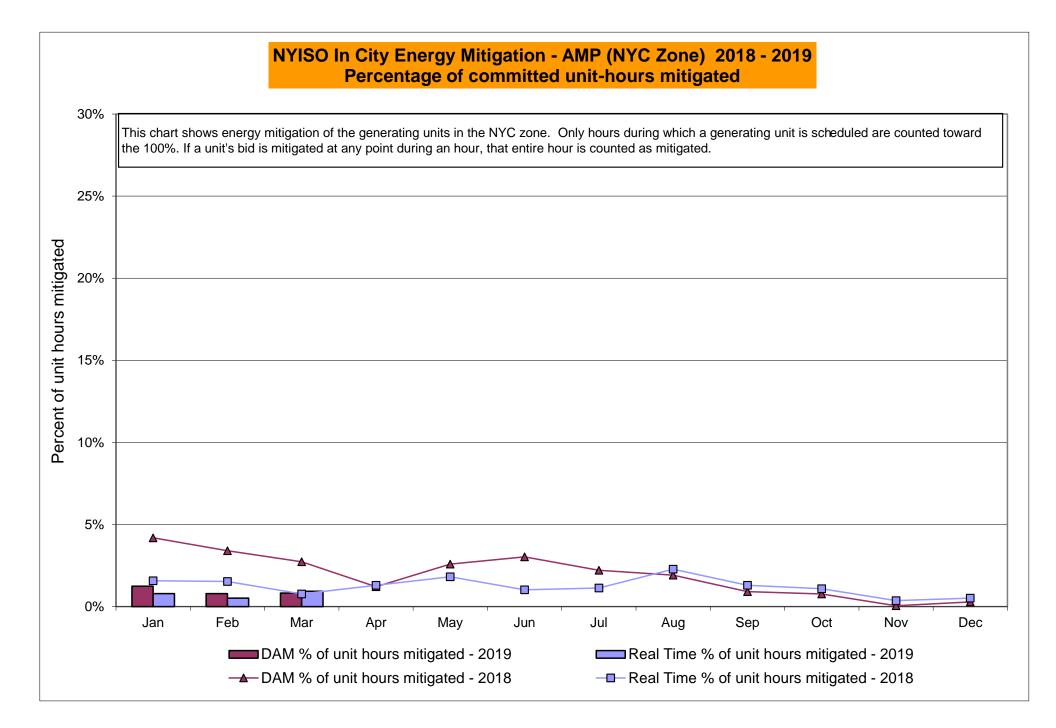
# NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

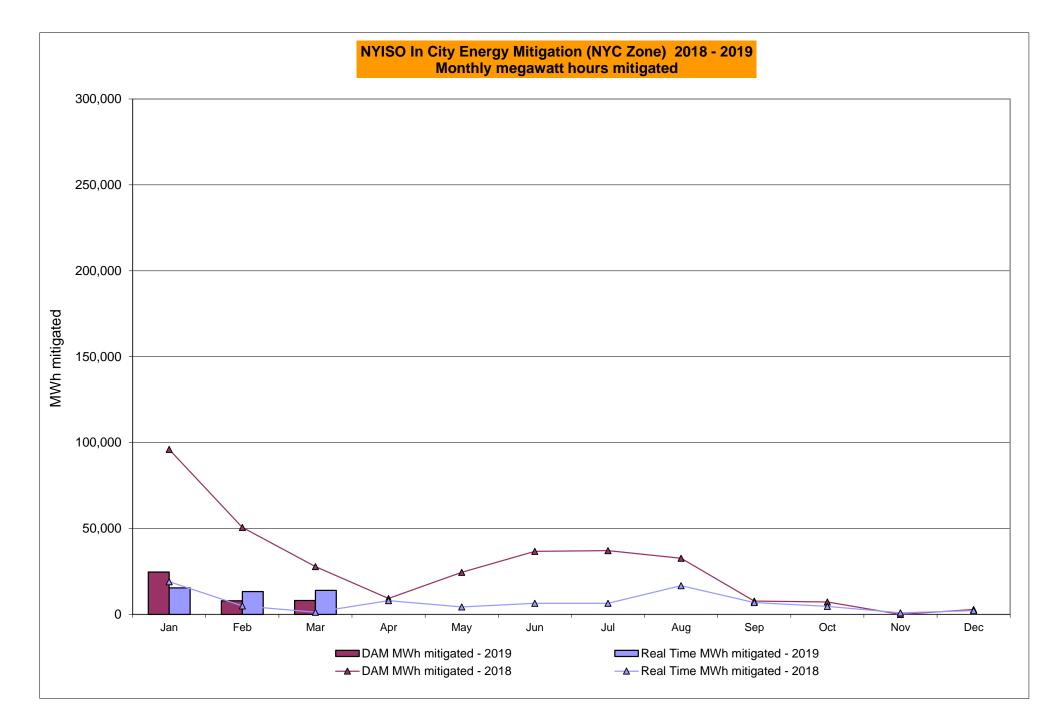
			,	00111000	Statistics	•	
2019	January	<b>February</b>	March	<u>April</u>	May	June	July
Day Ahead Market	<u>oundary</u>	<u>r cordary</u>	<u>indion</u>	<u>Aprii</u>	<u>ividy</u>	<u>ounc</u>	<u>oury</u>
10 Min Spin SENY (GHIJK)	5.47	4.17	4.61				
• • • •							
10 Min Spin East (F)	5.47	4.17	4.61				
10 Min Spin West (ABCDE)	4.56	3.94	4.30				
10 Min Non Synch SENY (GHIJK)	3.88	3.75	3.57				
10 Min Non Synch East (F)	3.88	3.75	3.57				
10 Min Non Synch West (ABCDE)	3.86	3.74	3.47				
30 Min SENY (GHIJK)	3.86	3.74	3.46				
30 Min East (F)	3.86	3.74	3.46				
30 Min West (ABCDE)	3.86	3.74	3.46				
Regulation	11.94	7.69	6.62				
RTC Market							
	1 90	1 55	1 00				
10 Min Spin SENY (GHIJK)	1.80	1.55	1.08				
10 Min Spin East (F)	1.80	1.55	1.08				
10 Min Spin West (ABCDE)	1.08	0.80	0.79				
10 Min Non Synch SENY (GHIJK)	0.01	0.08	0.11				
10 Min Non Synch East (F)	0.01	0.08	0.11				
10 Min Non Synch West (ABCDE)	0.00	0.01	0.01				
30 Min SENY (GHIJK)	0.00	0.01	0.01				
30 Min East (F)	0.00	0.01	0.01				
30 Min West (ABCDE)	0.00	0.01	0.01				
Regulation	9.81	6.64	6.21				
NYCA Regulation Movement	0.23	0.22	0.21				
·							
Real Time Market	0.50	0.54					
10 Min Spin SENY (GHIJK)	2.53	2.51	2.24				
10 Min Spin East (F)	2.53	2.51	2.24				
10 Min Spin West (ABCDE)	1.89	1.57	1.64				
10 Min Non Synch SENY (GHIJK)	0.03	0.18	0.48				
10 Min Non Synch East (F)	0.03	0.18	0.48				
10 Min Non Synch West (ABCDE)	0.00	0.01	0.09				
30 Min SENY (GHIJK)	0.00	0.01	0.03				
30 Min East (F)	0.00	0.01	0.03				
30 Min West (ABCDE)	0.00	0.01	0.03				
Regulation	11.36	7.72	7.23				
NYCA Regulation Movement	0.22	0.22	0.20				
Ũ							
2018	Januarv	Februarv	March	April	Mav	June	Julv
2018 Dav Ahead Market	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>
Day Ahead Market							
Day Ahead Market 10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52	4.98	4.95
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	9.93 9.93	5.24 5.24	5.97 5.97	7.45 7.45	5.52 5.52	4.98 4.98	4.95 4.95
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	9.93 9.93 8.49	5.24 5.24 4.53	5.97 5.97 4.78	7.45 7.45 5.73	5.52 5.52 4.65	4.98 4.98 4.26	4.95 4.95 3.98
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	9.93 9.93 8.49 6.99	5.24 5.24 4.53 4.54	5.97 5.97 4.78 4.48	7.45 7.45 5.73 5.05	5.52 5.52 4.65 4.26	4.98 4.98 4.26 4.09	4.95 4.95 3.98 4.49
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	9.93 9.93 8.49 6.99 6.99	5.24 5.24 4.53 4.54 4.54	5.97 5.97 4.78 4.48 4.48	7.45 7.45 5.73 5.05 5.05	5.52 5.52 4.65 4.26 4.26	4.98 4.98 4.26 4.09 4.09	4.95 4.95 3.98 4.49 4.49
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	9.93 9.93 8.49 6.99 6.99 6.15	5.24 5.24 4.53 4.54 4.54 4.36	5.97 5.97 4.78 4.48 4.48 3.54	7.45 7.45 5.73 5.05 5.05 4.31	5.52 5.52 4.65 4.26 4.26 4.13	4.98 4.98 4.26 4.09 4.09 3.85	4.95 4.95 3.98 4.49 4.49 3.80
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79
Day Ahead Market10 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)RegulationRTC Market	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 6.14 15.51 4.23	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43	5.24 $5.24$ $4.53$ $4.54$ $4.54$ $4.36$ $4.36$ $4.36$ $4.36$ $10.70$ $1.24$ $1.24$ $0.82$	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91	4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74	4.95 4.95 3.98 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59	5.24 $5.24$ $4.53$ $4.54$ $4.54$ $4.36$ $4.36$ $4.36$ $4.36$ $10.70$ $1.24$ $1.24$ $0.82$ $0.03$	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42
Day Ahead Market10 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)RegulationRTC Market10 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)	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01	7.45 $7.45$ $5.73$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ \\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.08\end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00	7.45 $7.45$ $5.73$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$ $0.00$	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27	4.95 4.95 3.98 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min Non Synch West (ABCDE)30 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.98 1.79 0.01 0.01 0.00 0.00	7.45 $7.45$ $5.73$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$ $0.00$ $0.00$	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27	4.95 4.95 3.98 4.49 3.80 3.79 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 0.08\end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00	7.45 $7.45$ $5.73$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$ $0.22$ $0.00$ $0.00$ $0.00$	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32	4.98 4.98 4.26 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.27 0.27 0.27	$\begin{array}{c} 4.95 \\ 4.95 \\ 3.98 \\ 4.49 \\ 4.49 \\ 3.80 \\ 3.79 \\ 3.79 \\ 3.79 \\ 3.79 \\ 6.99 \\ \end{array}$ $\begin{array}{c} 1.81 \\ 1.81 \\ 1.27 \\ 0.42 \\ 0.42 \\ 0.42 \\ 0.33 \\ 0.33 \\ 0.33 \\ 0.33 \end{array}$
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)30 Min SENY (GHIJK)	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00	7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.32 0.32 0.32	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.27 0.27 0.27 0.27	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\end{array}$
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (ABCDE)30 Min West (ABCDE)	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 0.02 10.40	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63	7.45 $7.45$ $5.73$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$ $0.22$ $0.00$ $0.00$ $0.00$ $0.00$ $8.22$	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01	4.98 4.98 4.26 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ \end{array}$
Day Ahead Market10 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 <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation Movement	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00	7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.32 0.32 0.32	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.27 0.27 0.27 0.27	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\end{array}$
Day Ahead Market10 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 <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)30 Min Kest (ABCDE)30 Min SENY (GHIJK)30 Min SENY (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation MovementReal Time Market	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 $7.45$ $5.73$ $5.05$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $8.22$ $0.22$	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.32 0.32 0.32 0.32 10.01 0.19	$\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ $\begin{array}{c} 1.28\\ 1.28\\ 0.74\\ 0.49\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 9.39\\ 0.16\\ \end{array}$	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$
Day Ahead Market10 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 <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation MovementReal Time Market10 Min Spin SENY (GHIJK)	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ 11.31\\ \end{array}$	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21 3.19	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.31	7.45 $7.45$ $5.73$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $8.22$ $0.22$ $7.62$	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32 10.01 0.19 5.48	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.27 0.27 0.27 0.27 0.27 0.27 9.39 0.16 2.98	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$
Day Ahead Market10 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 <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK) <td><math display="block">\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ \end{array}</math></td> <td>5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21</td> <td>5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20</td> <td>7.45 <math display="block">7.45</math> <math display="block">5.73</math> <math display="block">5.05</math> <math display="block">5.05</math> <math display="block">4.31</math> <math display="block">4.31</math> <math display="block">4.31</math> <math display="block">4.31</math> <math display="block">4.31</math> <math display="block">9.49</math> <math display="block">3.17</math> <math display="block">3.17</math> <math display="block">2.38</math> <math display="block">0.22</math> <math display="block">0.22</math> <math display="block">0.00</math> <math display="block">0.00</math> <math display="block">0.00</math> <math display="block">0.00</math> <math display="block">0.00</math> <math display="block">8.22</math> <math display="block">0.22</math></td> <td>5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.32 0.32 0.32 0.32 10.01 0.19</td> <td><math display="block">\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}</math> <math display="block">\begin{array}{c} 1.28\\ 1.28\\ 0.74\\ 0.49\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 9.39\\ 0.16\\ \end{array}</math></td> <td><math display="block">\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}</math> <math display="block">\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}</math></td>	$\begin{array}{c} 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 $7.45$ $5.73$ $5.05$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $8.22$ $0.22$	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.32 0.32 0.32 0.32 10.01 0.19	$\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ $\begin{array}{c} 1.28\\ 1.28\\ 0.74\\ 0.49\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 9.39\\ 0.16\\ \end{array}$	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$
Day Ahead Market10 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 <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation MovementReal Time Market10 Min Spin SENY (GHIJK)	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ 11.31\\ \end{array}$	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21 3.19	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.31	7.45 $7.45$ $5.73$ $5.05$ $4.31$ $4.31$ $4.31$ $4.31$ $9.49$ $3.17$ $3.17$ $2.38$ $0.22$ $0.22$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $8.22$ $0.22$ $7.62$	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32 10.01 0.19 5.48	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.27 0.27 0.27 0.27 0.27 0.27 9.39 0.16 2.98	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$
Day Ahead Market10 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 <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK) <td><math display="block">\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ 11.31\\ 11.31\\ 11.31\end{array}</math></td> <td>5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 10.40 0.21 3.19 3.19 3.19</td> <td>5.97 <math display="block">5.97</math> <math display="block">4.78</math> <math display="block">4.48</math> <math display="block">4.48</math> <math display="block">3.54</math> <math display="block">3.54</math> <math display="block">3.54</math> <math display="block">3.54</math> <math display="block">10.68</math> <math display="block">1.98</math> <math display="block">1.98</math> <math display="block">1.79</math> <math display="block">0.01</math> <math display="block">0.01</math> <math display="block">0.01</math> <math display="block">0.00</math> <math display="block">3.31</math> <math display="block">3.31</math></td> <td><math display="block">\begin{array}{c} 7.45\\ 7.45\\ 5.73\\ 5.05\\ 5.05\\ 4.31\\ 4.31\\ 4.31\\ 4.31\\ 9.49\\ \end{array}</math> <math display="block">\begin{array}{c} 3.17\\ 3.17\\ 2.38\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.22\\ 0.22\\ \end{array}</math></td> <td>5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48</td> <td>4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 0.16 2.98 2.98</td> <td><math display="block">\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}</math> <math display="block">\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}</math></td>	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ 11.31\\ 11.31\\ 11.31\end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 10.40 0.21 3.19 3.19 3.19	5.97 $5.97$ $4.78$ $4.48$ $4.48$ $3.54$ $3.54$ $3.54$ $3.54$ $10.68$ $1.98$ $1.98$ $1.79$ $0.01$ $0.01$ $0.01$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $0.00$ $3.31$ $3.31$	$\begin{array}{c} 7.45\\ 7.45\\ 5.73\\ 5.05\\ 5.05\\ 4.31\\ 4.31\\ 4.31\\ 4.31\\ 9.49\\ \end{array}$ $\begin{array}{c} 3.17\\ 3.17\\ 2.38\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.22\\ 0.22\\ \end{array}$	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 9.39 0.16 2.98 2.98	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$
Day Ahead Market10 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)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)30 Min East (F)30 Min SENY (GHIJK)30 Min Sent (ABCDE)RegulationNYCA Regulation MovementReal Time Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ 11.31\\ 11.31\\ 11.31\\ 7.24\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52	5.97 $5.97$ $4.78$ $4.48$ $4.48$ $3.54$ $3.54$ $3.54$ $3.54$ $10.68$ $1.98$ $1.98$ $1.79$ $0.01$ $0.01$ $0.00$	$\begin{array}{c} 7.45\\ 7.45\\ 5.73\\ 5.05\\ 5.05\\ 4.31\\ 4.31\\ 4.31\\ 4.31\\ 9.49\\ \end{array}$	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.48 5.48 5.48 4.86	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min Spin SENY (GHIJK)30 Min Spin West (ABCDE)30	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01	5.97 $5.97$ $4.78$ $4.48$ $4.48$ $3.54$ $3.54$ $3.54$ $3.54$ $3.54$ $10.68$ $1.98$ $1.98$ $1.79$ $0.01$ $0.01$ $0.00$	7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 4.31 9.49 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.28 0.28 0.28	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03	$\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ $\begin{array}{c} 1.28\\ 1.28\\ 0.74\\ 0.49\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 9.39\\ 0.16\\ \end{array}$ $\begin{array}{c} 2.98\\ 2.98\\ 1.37\\ 1.63\\ 1.63\\ 1.63\\ \end{array}$	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.35\\ \end{array}$
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK)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 Kest (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationNYCA Regulation Movement <b>Real Time Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin SENY (GHIJK)10 Min Spin Kest (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)10 Min Non Synch West (ABCDE)10 Min Non Synch West (ABCDE) <td><math display="block">\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ 11.31\\ 11.31\\ 11.31\\ 7.24\\ 3.61\\ 3.61\\ 0.85\\ \end{array}</math></td> <td>5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.01 0.00</td> <td>5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.98 1.79 0.01 0.01 0.00 0.19 0.00</td> <td>7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.00 0.02 7.62 7.62 6.77 0.28 0.00</td> <td>5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.32 0.57</td> <td>4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.27 0.39 0.16</td> <td><math display="block">\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}</math> <math display="block">\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}</math> <math display="block">\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.29\\ \end{array}</math></td>	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ 11.31\\ 11.31\\ 11.31\\ 7.24\\ 3.61\\ 3.61\\ 0.85\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.01 0.00	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.98 1.79 0.01 0.01 0.00 0.19 0.00	7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.00 0.02 7.62 7.62 6.77 0.28 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.32 0.57	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.27 0.39 0.16	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.29\\ \end{array}$
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 6.14\\ 15.51\\ 4.23\\ 4.23\\ 2.43\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.59\\ 0.08\\ 0.08\\ 0.08\\ 15.17\\ 0.26\\ 11.31\\ 11.31\\ 11.31\\ 7.24\\ 3.61\\ 3.61\\ 0.85\\ 0.13\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 3.19 2.52 0.01 0.01 0.00 0.00	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.98 1.98 1.79 0.01 0.01 0.00	7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 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 0.22 0.28 0.28 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.42 0.33 0.32 0.33 0.57 0.37	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49 0.27 0.39 0.16 2.98 2.98 1.37 1.63 0.37 0.37	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min Sen K(F)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (G	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 3.19 2.52 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.98 1.98 1.79 0.01 0.00 0.0	7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 1.30 1.28 1.28 0.74 0.49 0.27 0.39 0.16 2.98 2.98 1.37 1.63 0.37 0.37 0.37	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.29\\$
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)30 Min SENY (GHIJK)30 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.01 0.00 0.00 0.00 0.00 0.00	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 3.31 3.31 3.31 2.86 0.19 0.00 0.0	7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 4.31 4.31 4.31 4.31 4.31 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.22 0.22 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.22 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.42 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37 0.37	$\begin{array}{c} 4.98\\ 4.98\\ 4.26\\ 4.09\\ 4.09\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 3.85\\ 11.30\\ \end{array}$ $\begin{array}{c} 1.28\\ 1.28\\ 0.74\\ 0.49\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.27\\ 0.37\\ 0$	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.29\\$
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min Sen K(F)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (G	$\begin{array}{c} 9.93\\ 9.93\\ 9.93\\ 8.49\\ 6.99\\ 6.99\\ 6.15\\ 6.14\\ 6.14\\ 15.51\\ \end{array}$	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.00 0.	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.98 1.98 1.79 0.01 0.00 0.0	7.45 7.45 5.73 5.05 4.31 4.31 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 4.13 12.11 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37	4.98 4.98 4.26 4.09 3.85 3.85 3.85 3.85 1.30 1.28 0.74 0.49 0.27 0.30 0.37	$\begin{array}{c} 4.95\\ 4.95\\ 3.98\\ 4.49\\ 3.80\\ 3.79\\ 3.79\\ 3.79\\ 3.79\\ 6.99\\ \end{array}$ $\begin{array}{c} 1.81\\ 1.81\\ 1.27\\ 0.42\\ 0.42\\ 0.42\\ 0.42\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 0.33\\ 7.87\\ 0.19\\ \end{array}$ $\begin{array}{c} 2.65\\ 2.65\\ 2.65\\ 2.10\\ 0.35\\ 0.29\\$

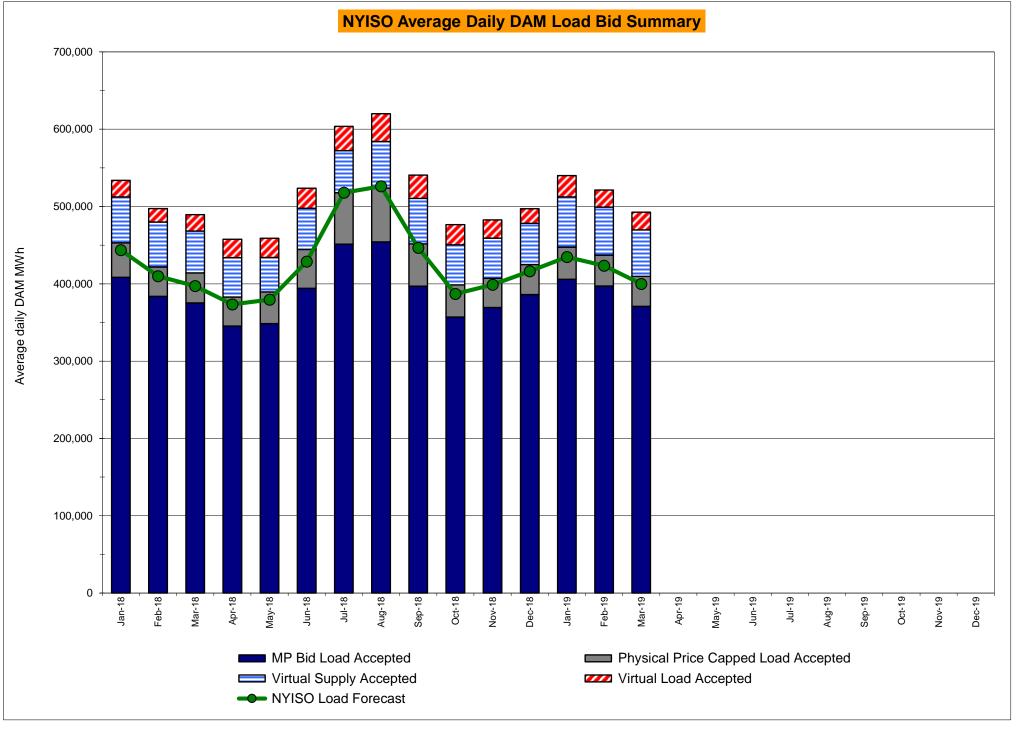
<u>August</u> <u>September</u>

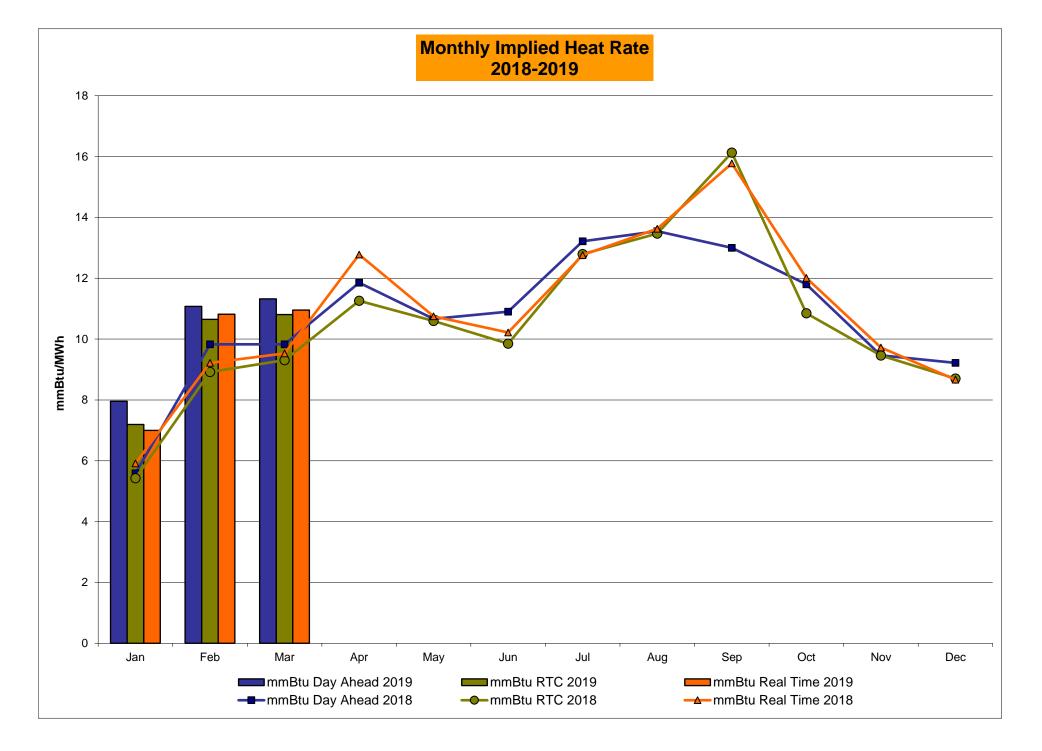
October November December

August	September	October	November	December
ragaor		000000		December
4.91	6.04	8.37	6.93	4.99
4.91	6.04	8.37	6.93	4.99
4.30	5.18	6.36	6.57	4.86
4.43	4.51	5.69	4.00	3.71
4.43	4.51	5.69	4.00	3.71
4.03	3.95	4.31	3.97	3.70
4.02	3.94	4.22	3.97	3.70
4.02	3.94	4.22	3.97	3.70
4.02	3.94	4.22	3.97	3.70
8.00	8.54	12.88	14.47	14.07
1.29	9.90	3.43	4.39	1.71
1.29	9.00	3.43	4.39	1.71
0.93	7.33	2.63	3.85	1.58
0.27	6.14	1.07	0.50	0.00
0.27	5.25	1.07	0.50	0.00
0.25	3.92	0.38	0.38	0.00
0.25	3.55	0.11	0.09	0.00
0.25	2.65	0.11	0.09	0.00
0.25	2.65	0.11	0.09	0.00
7.92	14.90	12.40	17.43	16.90
0.19	0.20	0.21	0.22	0.22
2.93	9.13	8.14	7.39	3.49
2.93	8.50	8.14	7.39	3.49
2.50	6.96	4.26	6.45	3.15
1.16	5.33	4.70	1.16	0.00
1.16	4.70	4.70	1.16	0.00
1.12	3.47	0.92	0.67	0.00
1.12	3.11	0.06	0.10	0.00
1.12	2.48	0.06	0.10	0.00
1.12	2.48	0.06	0.10	0.00
9.71	14.67	14.54	20.48	18.44
0.18	0.20	0.21	0.22	0.21

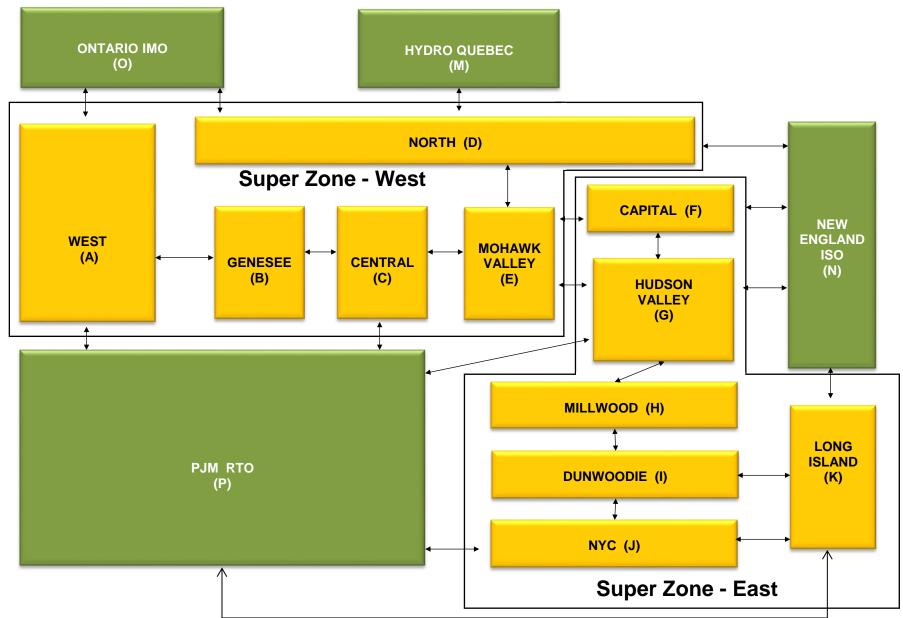








# NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 4/8/2019 10:07 AM

#### Billing Codes for Chart C

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

# 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





