

# Market Operations Report

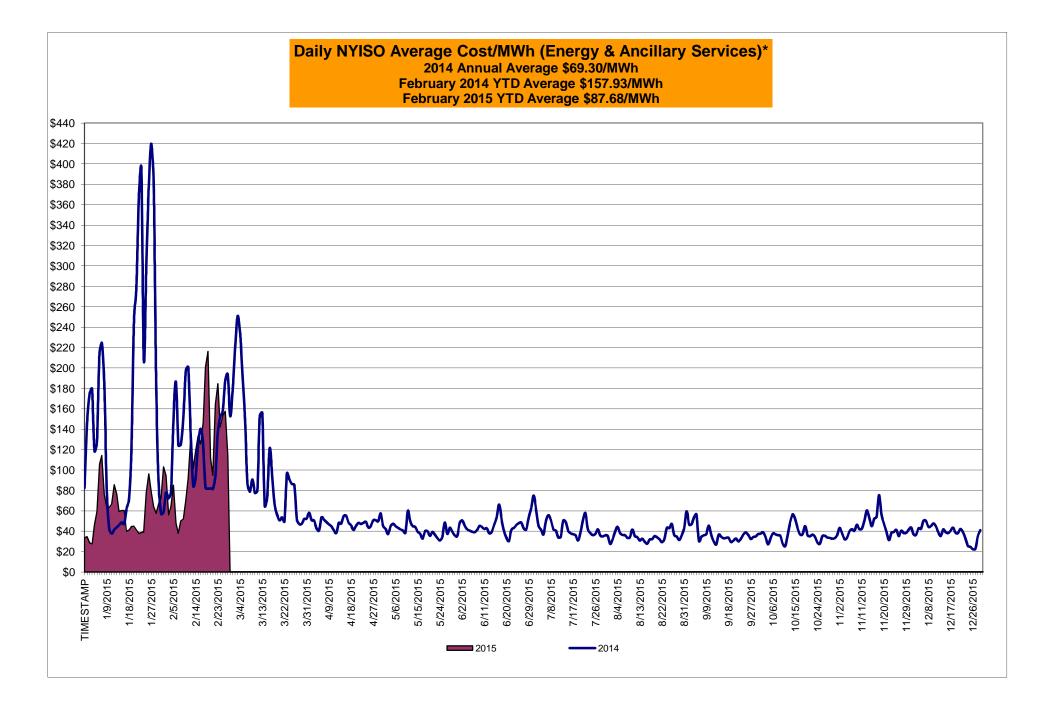
## Rana Mukerji

Senior Vice President, Market Structures New York Independent System Operator

Business Issues Committee Meeting March 11, 2015

## Market Performance Highlights for February 2015

- LBMP for February is \$114.35/MWh; higher than \$59.60/MWh in January 2015 and lower than \$123.19/MWh in February 2014.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to January.
- February 2015 average year-to-date monthly cost of \$87.68/MWh is a 45% decrease from \$157.93/MWh in February 2014.
- Average daily sendout is 481 GWh/day in February; higher than 462 GWh/day in January 2015 and 460 GWh/day in February 2014.
- Natural gas and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$15.15/MMBtu, up 92% from \$7.90/MMBtu in January.
    - Transco Z6 NY is up 30% year-over-year
  - Jet Kerosene Gulf Coast was \$13.09/MMBtu, up from \$11.19/MMBtu in January.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.25/MMBtu, up from \$12.08/MMBtu in January.
    - Distillate prices are down 40% year-over-year
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$1.17)/MWh; lower than (\$0.50)/MWh in January.
    - The Local Reliability Share is \$0.33/MWh, higher than \$0.25 in January.
    - The Statewide Share is (\$1.49)/MWh, lower than (\$0.75)/MWh in January.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than January.



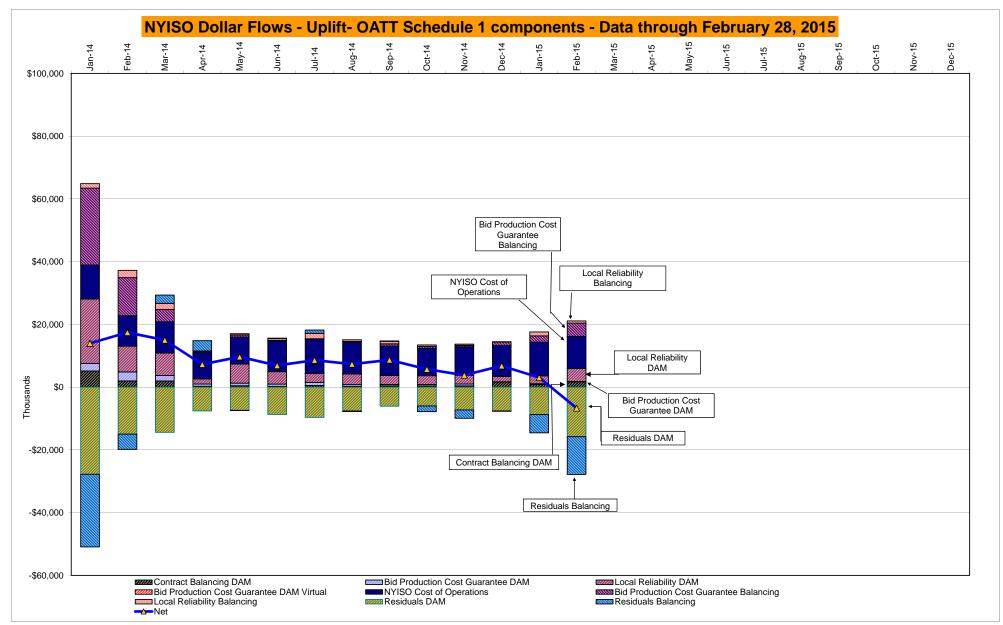
\* Excludes ICAP payments.

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

2015	<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>
LBMP	59.60	114.35										
NTAC	0.32	0.35										
Reserve	0.27	0.37										
Regulation	0.10	0.18										
NYISO Cost of Operations	0.70	0.70										
Uplift	(0.50)	(1.17)										
Uplift: Local Reliability Share	0.25	0.33										
Uplift: Statewide Share	(0.75)	(1.49)										
Voltage Support and Black Start	0.39	0.39										
Avg Monthly Cost	60.88	115.17										
Avg YTD Cost	60.88	87.68										
TSA \$ per NYC MWh	0.00	0.00										
2014	January	<u>February</u>	March	April	May	June	July	August	September	October	November	December
LBMP	183.36	123.19	109.58	46.09	40.30	43.39	43.97	34.48	37.62	35.59	42.88	38.08
NTAC	0.56	0.64	0.39	1.18	40.30 0.69	43.39 0.78	43.97 0.43	0.41	0.50	0.57	42.66	0.86
Reserve	0.56	0.64	0.39	0.46		0.78	0.43	0.41	0.50	0.57	0.69	
	0.78	0.49	0.56		0.28 0.12	0.27	0.26	0.26		0.47		0.23 0.08
Regulation				0.13			-		0.11 0.69	-	0.11	
NYISO Cost of Operations	0.69 0.22	0.69 0.56	0.69 0.35	0.69	0.69 0.07	0.69	0.69	0.69		0.69	0.69	0.69
Uplift	1.43	0.56	0.55	(0.09) 0.15	0.07	(0.21) 0.32	(0.26) 0.29	(0.19) 0.27	(0.20) 0.26	(0.24) 0.26	(0.40) 0.24	(0.21) 0.13
Uplift: Local Reliability Share Uplift: Statewide Share												
Voltage Support and Black Start	(1.21)	(0.19)	(0.27) 0.36	(0.24)	(0.44)	(0.53) 0.36	(0.55)	(0.45)	(0.46) 0.36	(0.50)	(0.64)	(0.34)
• • • • -	0.36	0.36		0.36	0.36		0.36	0.36		0.36	0.36	0.36
Avg Monthly Cost	186.24	126.14	112.15	48.82	42.51	45.39	45.57	36.14	39.37	37.57	44.70	40.09
Avg YTD Cost	186.24	157.93	142.77	121.97	108.36	97.84	89.46	82.60	78.07	74.63	72.06	69.30
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.03	0.35	0.00	0.42	0.00	0.00	0.00
2013	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
LBMP	79.77	85.76	48.94	44.47	52.21	50.17	68.49	40.81	44.24	39.85	43.30	66.41
NTAC	0.79	0.83	0.76	0.90	0.85	0.86	0.66	0.28	0.57	0.87	1.08	0.59
Reserve	0.38	0.44	0.43	0.36	0.49	0.34	0.50	0.32	0.38	0.42	0.38	0.44
Regulation	0.13	0.13	0.10	0.11	0.09	0.13	0.11	0.13	0.13	0.16	0.13	0.12
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Uplift	0.21	(0.15)	(0.33)	0.02	0.41	0.49	2.06	0.03	(0.05)	0.18	(0.07)	(0.25)
Uplift: Local Reliability Share	0.44	0.40	0.19	0.37	0.58	0.81	1.27	0.49	0.31	0.38	0.19	0.12
Uplift: Statewide Share	(0.23)	(0.55)	(0.52)	(0.35)	(0.17)	(0.31)	0.79	(0.46)	(0.36)	(0.19)	(0.25)	(0.37)
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	82.34	88.06	50.96	46.91	55.10	53.05	72.87	42.62	46.31	42.54	45.88	68.36
Avg YTD Cost	82.34	85.08	74.02	67.80	65.46	63.36	65.10	62.27	60.74	59.30	58.24	59.13
TSA \$ per NYC MWh	0.00	0.00	0.00	0.04	0.58	0.61	1.52	0.43	0.22	0.01	0.00	0.00
* Excludes ICAP payments.										Data r	eflects true-ups thr	u Aug 2014.

\* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 3/5/2015 8:55 AM

Data reflects true-ups thru Aug 2014.



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.

				NYIS	O Marke	ts Transad	ctions			
<u>2015</u>	<u>January</u>	<b>February</b>	March	<u>April</u>	May	June	July	August September	<u>October November Decem</u>	ıber
Day Ahead Market MWh	15,961,306	14,967,371								
DAM LSE Internal LBMP Energy Sales	55%	54%								
DAM External TC LBMP Energy Sales	5%	6%								
DAM Bilateral - Internal Bilaterals	35%	33%								
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	3%	5%								
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%								
DAM Bilateral - Wheel Through Bilaterals	0%	1%								
Balancing Energy Market MWh	-648,574	-287,795								
Balancing Energy LSE Internal LBMP Energy Sales	-149%	-252%								
Balancing Energy External TC LBMP Energy Sales	30%	117%								
Balancing Energy Bilateral - Internal Bilaterals	13%	14%								
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%								
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	8%								
Balancing Energy Bilateral - Wheel Through Bilaterals	0%	12%								
Transactions Summary										
LBMP	58%	59%								
Internal Bilaterals	37%	34%								
Import Bilaterals	3%	5%								
Export Bilaterals	2%	2%								
Wheels Through	0%	1%								
Market Share of Total Load										
Day Ahead Market	104.2%	102.0%								
Balancing Energy +	-4.2%	-2.0%								
Total MWH	15,312,732	14,679,576								
Average Daily Energy Sendout/Month GWh	462	481								
2014	lanuary	February	March	April	May	lune	luly	August Sentember	October November Decem	bor

<u>2014</u>	January	February	March	<u>April</u>	May	<u>June</u>	July	August	<u>September</u>	October	November	December
Day Ahead Market MWh	16,034,264	14,409,515	14,633,570	12,101,747	12,984,458	14,719,929	16,528,338	15,536,610	14,312,509	13,684,158	13,945,509	14,992,656
DAM LSE Internal LBMP Energy Sales	52%	50%	53%	56%	53%	54%	58%	57%	56%	54%	54%	54%
DAM External TC LBMP Energy Sales	5%	7%	6%	3%	2%	3%	1%	0%	1%	2%	5%	5%
DAM Bilateral - Internal Bilaterals	36%	36%	35%	33%	38%	36%	34%	35%	36%	38%	36%	36%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%	5%	4%	4%	3%	3%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	1%	2%	2%	1%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	0%	1%	1%	1%	1%	1%	0%	0%	0%
Balancing Energy Market MWh	-249,484	-298,340	-116,173	54,298	-510,467	-558,413	-854,501	-764,108	-672,451	-994,214	-746,664	-707,436
Balancing Energy LSE Internal LBMP Energy Sales	-232%	-203%	-294%	-190%	-133%	-114%	-116%	-117%	-129%	-124%	-134%	-137%
Balancing Energy External TC LBMP Energy Sales	105%	76%	97%	207%	21%	22%	18%	15%	24%	14%	21%	28%
Balancing Energy Bilateral - Internal Bilaterals	20%	26%	69%	27%	3%	7%	4%	7%	7%	7%	9%	4%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	12%	0%	3%	0%	0%	0%	2%	1%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	11%	6%	25%	67%	4%	3%	2%	2%	3%	3%	5%	3%
Balancing Energy Bilateral - Wheel Through Bilaterals	-4%	-6%	-10%	-12%	1%	-18%	-8%	-7%	-7%	-1%	0%	1%
Transactions Summary												
LBMP	56%	56%	57%	59%	53%	55%	57%	55%	55%	52%	55%	56%
Internal Bilaterals	37%	37%	36%	33%	39%	38%	36%	37%	38%	42%	39%	38%
Import Bilaterals	5%	5%	5%	6%	5%	5%	5%	5%	5%	4%	4%	3%
Export Bilaterals	2%	1%	2%	2%	2%	1%	1%	2%	2%	2%	2%	2%
Wheels Through	1%	1%	1%	0%	1%	1%	1%	1%	1%	0%	1%	0%
Market Share of Total Load												
Day Ahead Market	101.6%	102.1%	100.8%	99.6%	104.1%	103.9%	105.5%	105.2%	104.9%	107.8%	105.7%	105.0%
Balancing Energy +	-1.6%	-2.1%	-0.8%	0.4%	-4.1%	-3.9%	-5.5%	-5.2%	-4.9%	-7.8%	-5.7%	-5.0%
Total MWH	15,784,780	14,111,175	14,517,397	12,156,045	12,473,991	14,161,516	15,673,837	14,772,502	13,640,058	12,689,944	13,198,845	14,285,220
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496	470	442	394	413	433

+ 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.

Market Mitigation and Analysis Prepared: 3/5/2015 8:58 AM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

Data reflects true-ups thru Aug 2014.

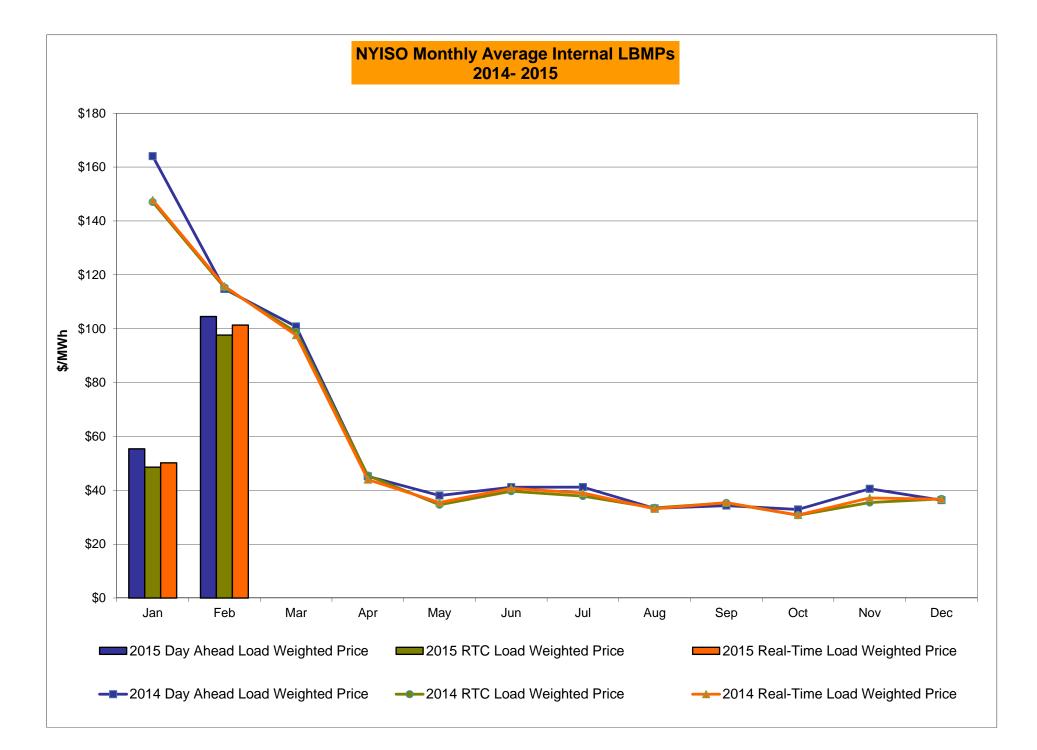
#### NYISO Markets 2015 Energy Statistics

	January	<b>February</b>	March	<u>April</u>	May	June	<u>July</u>	August September	October November December
DAY AHEAD LBMP									
Price *	\$53.35	\$101.48							
Standard Deviation	\$24.61	\$48.85							
Load Weighted Price **	\$55.40	\$104.52							
RTC LBMP									
Price *	\$46.98	\$95.06							
Standard Deviation	\$22.84	\$47.55							
Load Weighted Price **	\$48.59	\$97.62							
REAL TIME LBMP									
Price *	\$48.51	\$98.83							
Standard Deviation	\$25.99	\$52.53							
Load Weighted Price **	\$50.18	\$101.34							
Average Daily Energy Sendout/Month GWh	462	481							

#### NYISO Markets 2014 Energy Statistics

	<u>January</u>	<u>February</u>	March	April	May	June	July	August S	September	October	November [	<u>December</u>
DAY AHEAD LBMP Price *	\$155.11	\$110.69	\$97.07	\$44.16	\$36.61	\$39.17	\$38.82	\$31.78	\$32.49	\$31.65	\$39.19	\$35.12
Standard Deviation	\$121.52	\$50.86	\$59.89	\$8.90	\$10.99	\$12.29	\$15.56	\$9.90	\$32.49 \$11.59	\$9.77	\$13.38	\$33.12 \$11.21
Load Weighted Price **	\$164.06	\$114.77	\$100.81	\$45.19	\$38.05	\$41.14	\$41.18	\$33.28	\$34.31	\$32.89	\$40.57	\$36.33
RTC LBMP												
Price *	\$138.41	\$110.71	\$94.71	\$44.00	\$33.16	\$37.34	\$35.32	\$31.74	\$32.89	\$29.23	\$34.27	\$34.99
Standard Deviation	\$125.42	\$72.22	\$97.72	\$27.44	\$17.51	\$25.39	\$24.90	\$23.34	\$33.68	\$20.45	\$14.23	\$35.81
Load Weighted Price **	\$147.06	\$115.31	\$98.80	\$45.48	\$34.63	\$39.64	\$37.85	\$33.48	\$35.31	\$30.74	\$35.46	\$36.79
REAL TIME LBMP												
Price *	\$137.90	\$111.51	\$93.37	\$42.79	\$34.06	\$38.23	\$35.97	\$31.21	\$32.50	\$29.36	\$36.01	\$34.80
Standard Deviation	\$122.32	\$70.35	\$89.05	\$19.38	\$17.15	\$23.33	\$27.27	\$18.18	\$33.51	\$21.14	\$17.99	\$42.67
Load Weighted Price **	\$147.77	\$115.80	\$97.58	\$43.97	\$35.46	\$40.71	\$39.00	\$33.13	\$35.42	\$30.81	\$37.17	\$36.69
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496	470	442	394	413	433

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

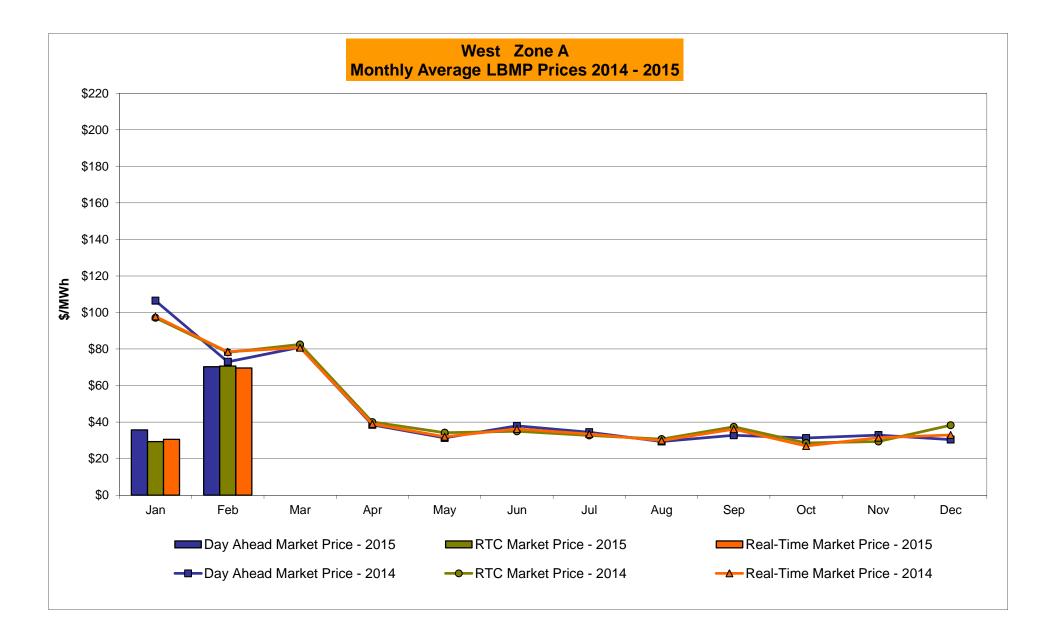


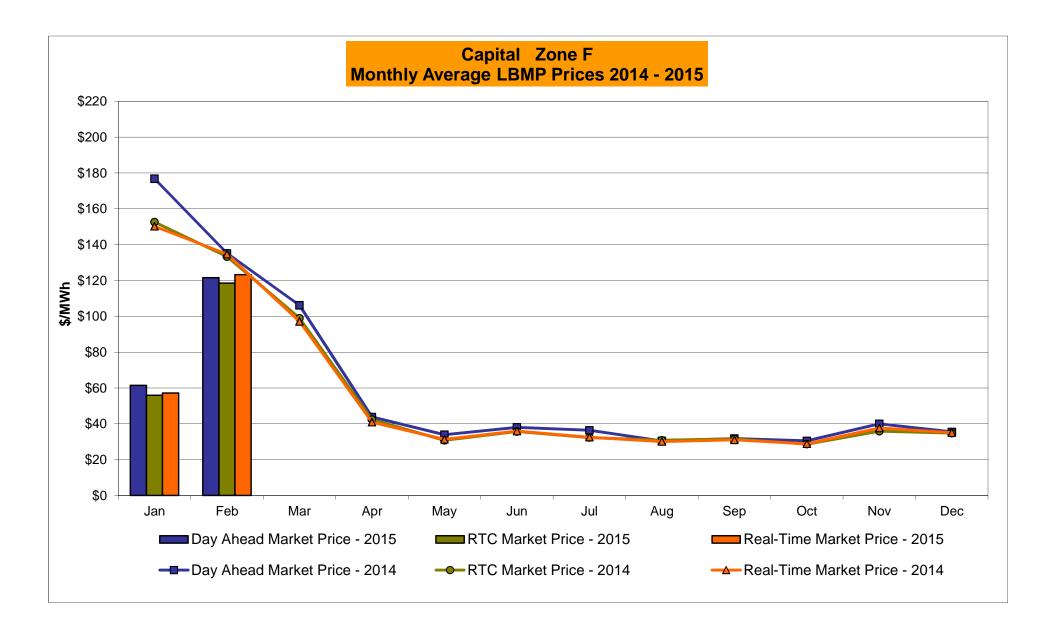
#### February 2015 Zonal LBMP Statistics for NYISO (\$/MWh)

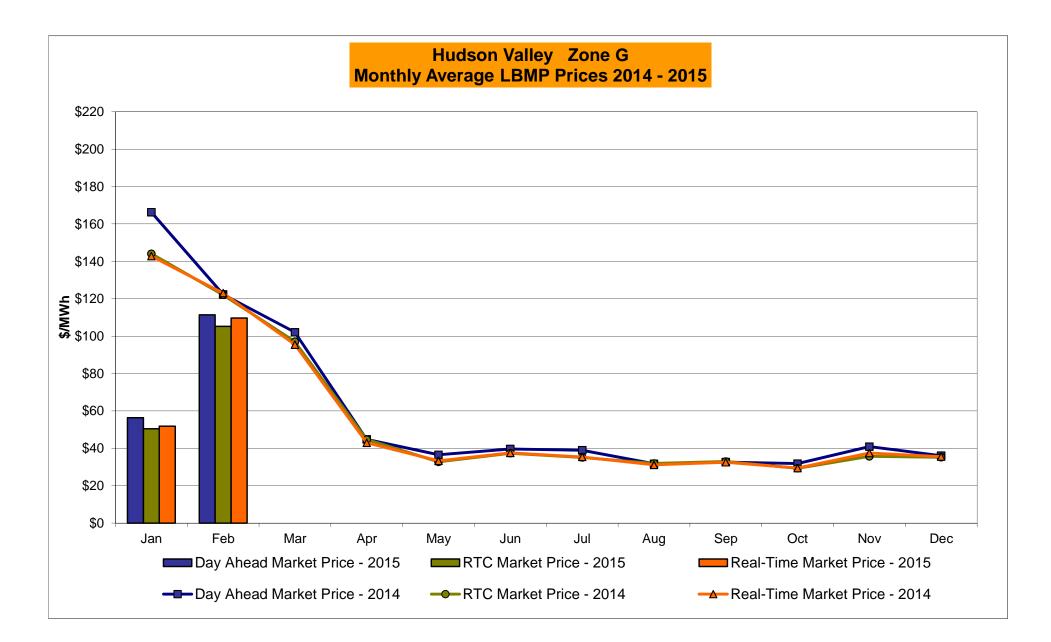
DAY AHEAD LBMP	WEST <u>Zone A</u>	GENESEE Zone B	NORTH <u>Zone D</u>	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE <u>Zone I</u>	NEW YORK CITY Zone J	LONG ISLAND <u>Zone K</u>
Unweighted Price *	70.28	71.20	68.13	75.58	79.25	121.60	111.36	112.30	111.73	112.33	128.75
Standard Deviation	44.18	46.28	48.46	48.27	50.29	54.76	52.06	52.48	52.24	52.43	54.51
RTC LBMP											
Unweighted Price *	70.63	60.20	57.22	66.55	68.68	118.49	105.19	106.13	105.53	106.33	121.15
Standard Deviation	81.99	42.92	47.30	48.54	48.07	54.31	48.77	49.16	48.88	49.57	60.86
REAL TIME LBMP											
Unweighted Price *	69.61	63.93	60.65	69.63	72.37	123.25	109.70	110.66	110.04	112.16	125.94
Standard Deviation	70.29	49.05	53.24	53.30	53.90	60.44	54.21	54.63	54.32	63.95	61.01

	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						Controllable	Controllable	Controllable	Controllable	Controllable	Controllable
DAY AHEAD LBMP	<u>Zone O</u>	<u>Zone M</u>	<u>Zone M</u>	<u>Zone P</u>	<u>Zone N</u>	Line	Line	<u>Line</u>	<u>Line</u>	Line	Line
Unweighted Price *	68.33	67.21	64.99	93.06	120.48	122.05	118.98	117.41	111.74	112.10	66.60
Standard Deviation	41.96	47.21	44.11	49.12	48.87	51.06	48.94	51.23	52.98	52.60	48.50
RTC LBMP											
Unweighted Price *	54.48	56.33	53.84	88.08	111.50	113.49	112.18	110.29	104.39	105.38	56.68
Standard Deviation	36.53	47.13	45.87	49.21	50.18	56.54	55.72	56.29	48.53	48.38	49.29
REAL TIME LBMP											
Unweighted Price *	60.90	59.48	56.66	91.14	124.23	119.07	121.22	114.97	110.38	110.61	56.99
Standard Deviation	45.36	52.88	52.05	52.39	53.55	57.56	55.50	56.36	61.45	56.55	52.34

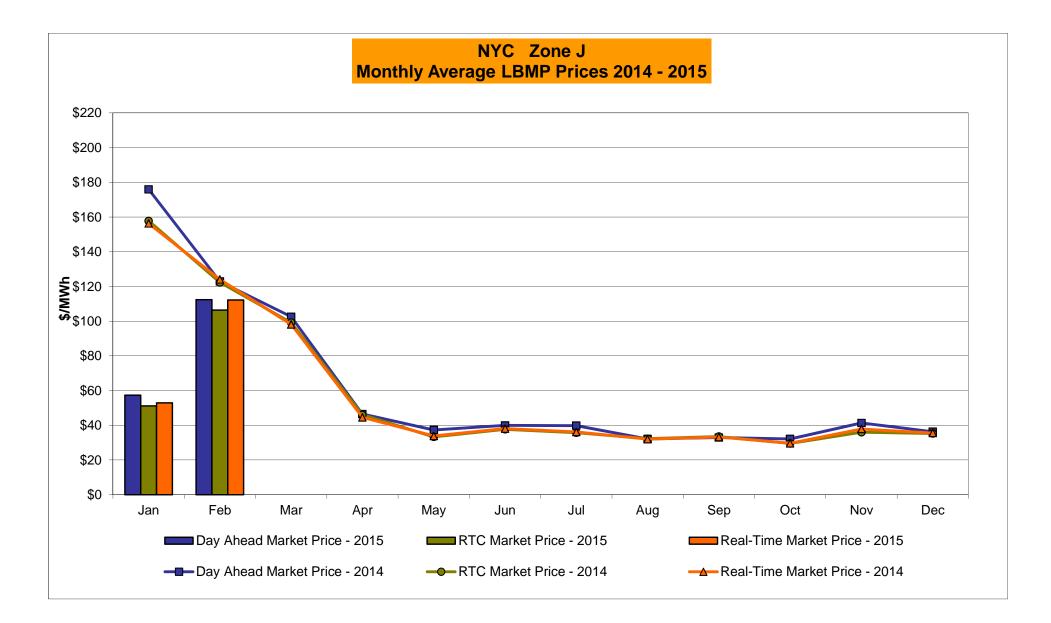
\* Straight LBMP averages

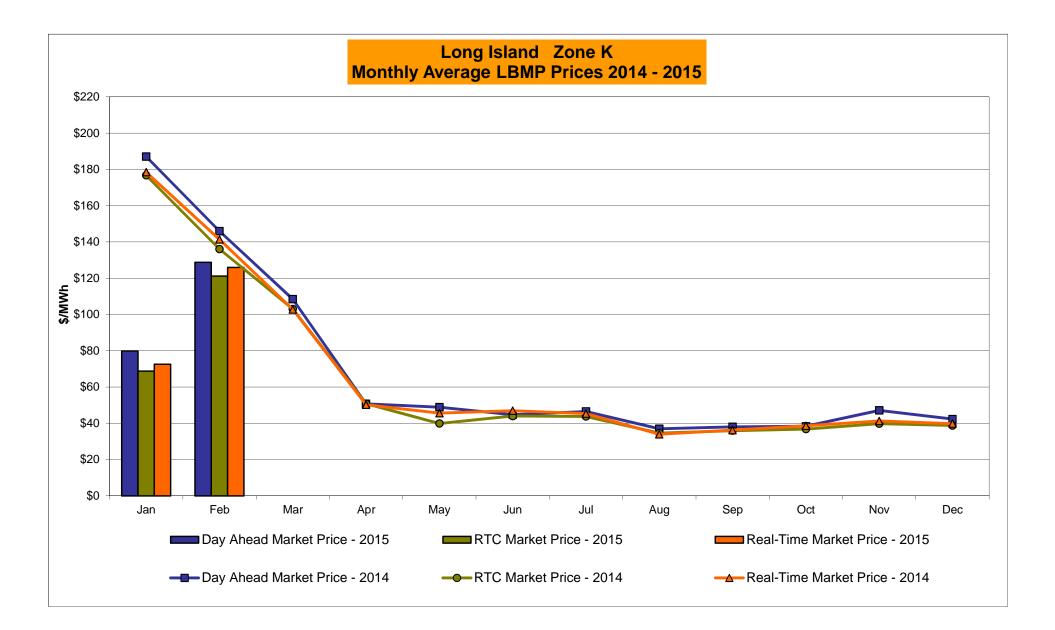


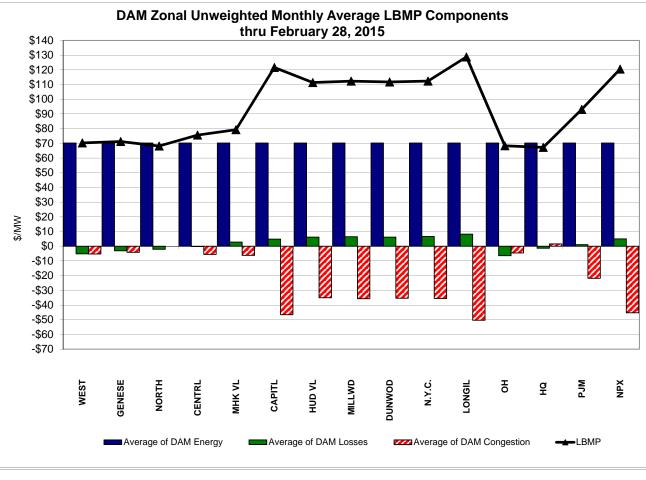


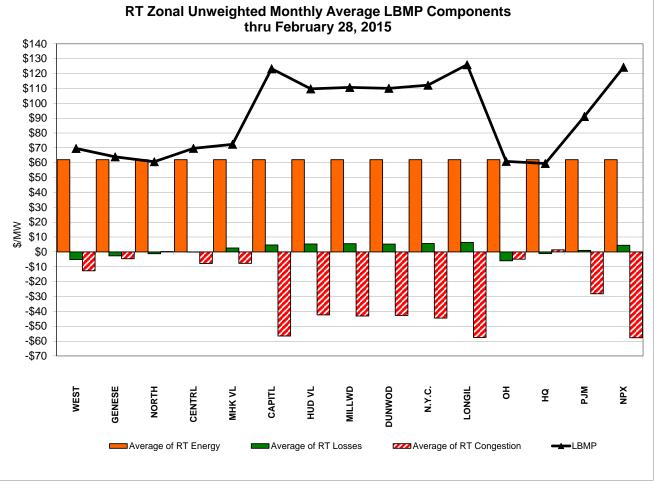


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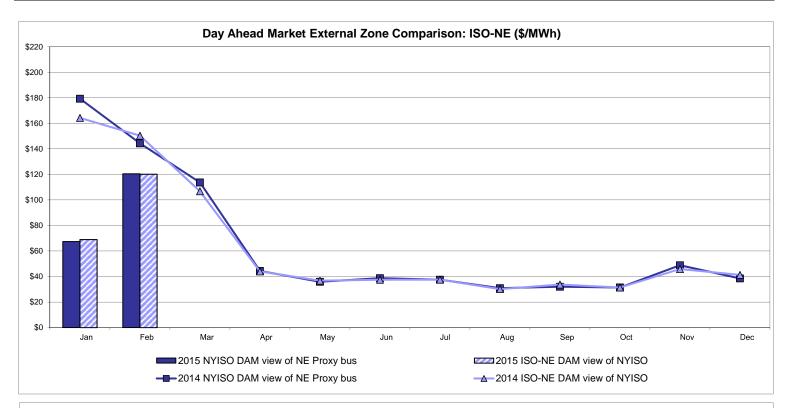


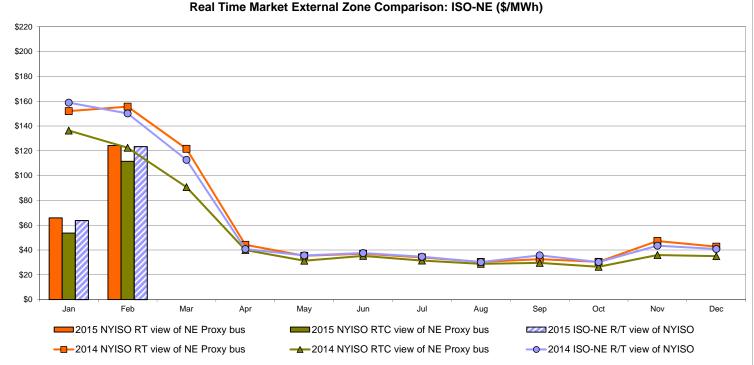


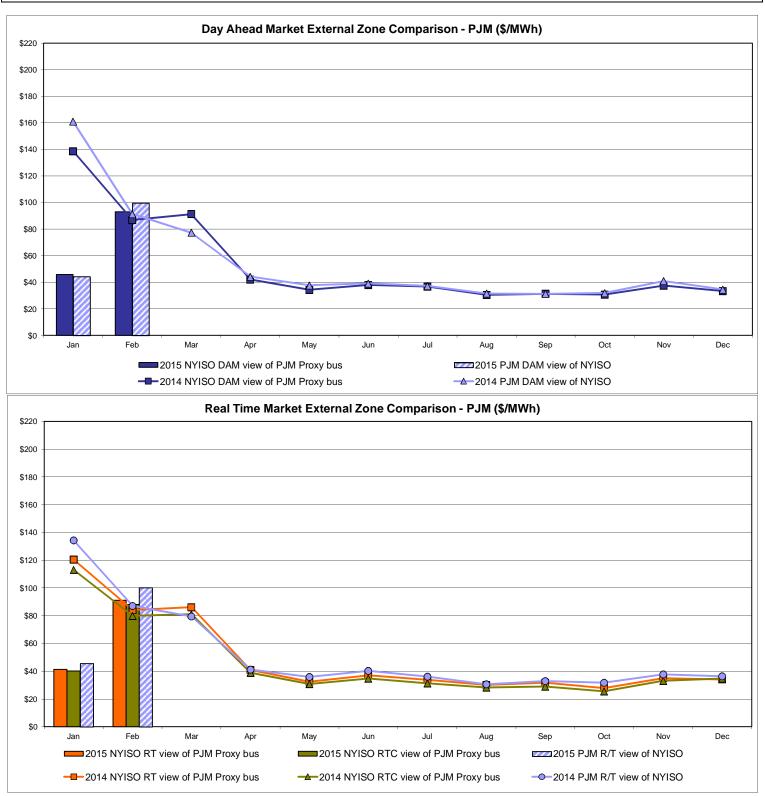


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## **External Comparison ISO-New England**

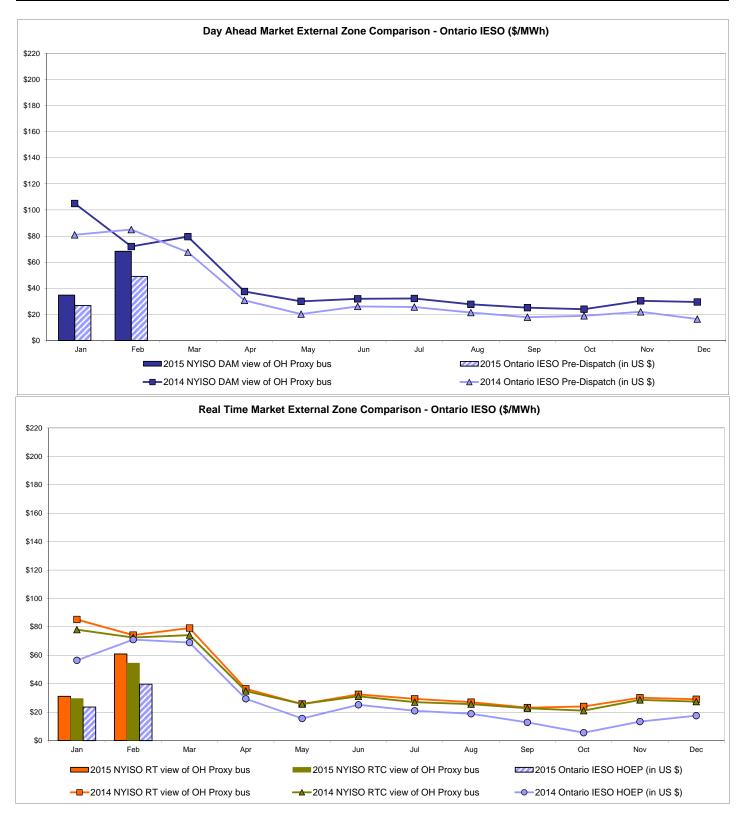




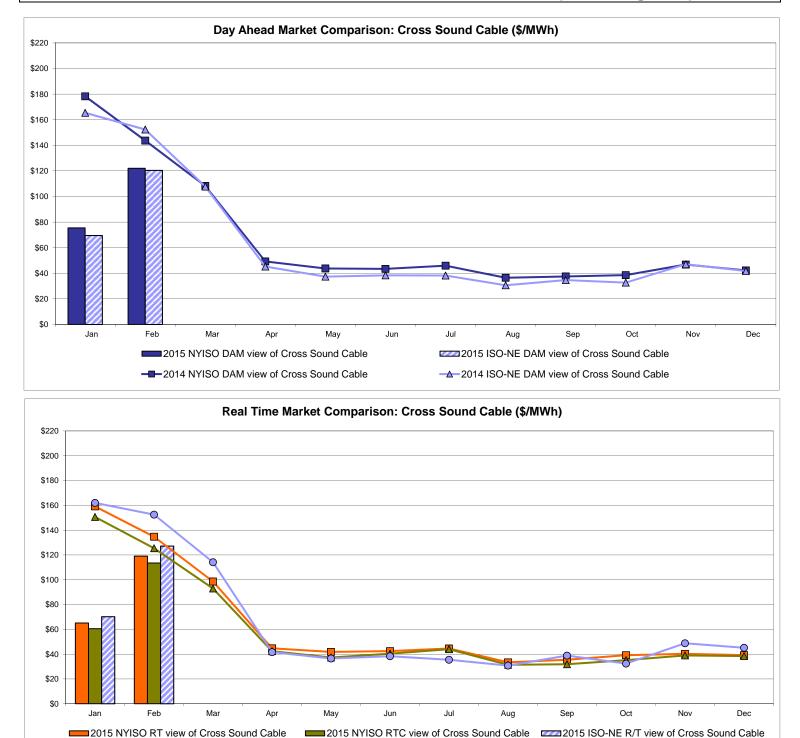


## **External Comparison PJM**

### **External Comparison Ontario IESO**



Notes: Exchange factor used for February 2015 was 0.8001 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



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

Note:

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

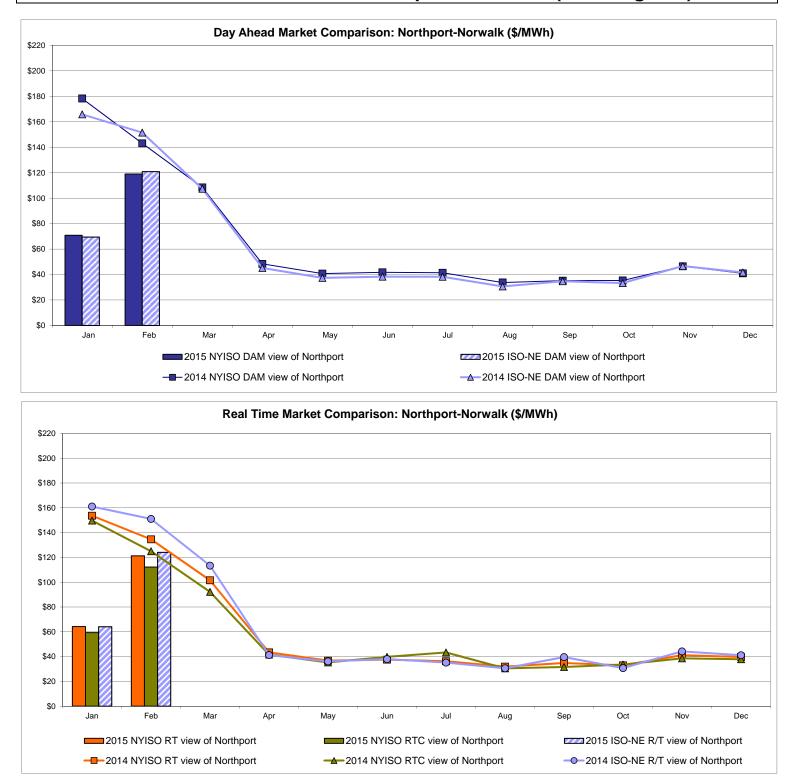
-D-2014 NYISO RT view of Cross Sound Cable

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.

2014 NYISO RTC view of Cross Sound Cable

-O-2014 ISO-NE R/T view of Cross Sound Cable



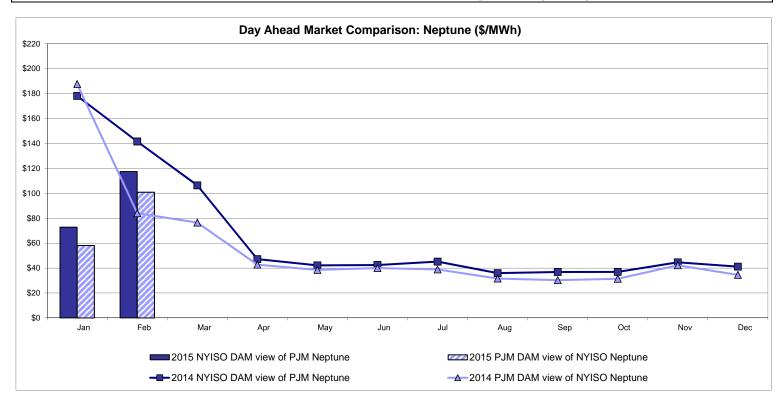
## External Controllable Line: Northport - Norwalk (New England)

Note:

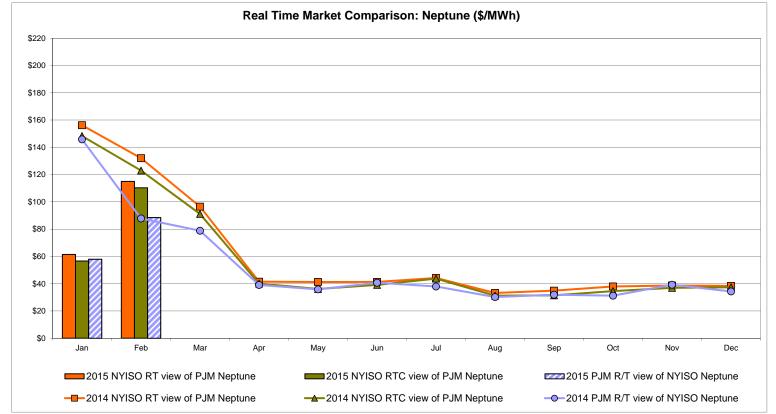
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

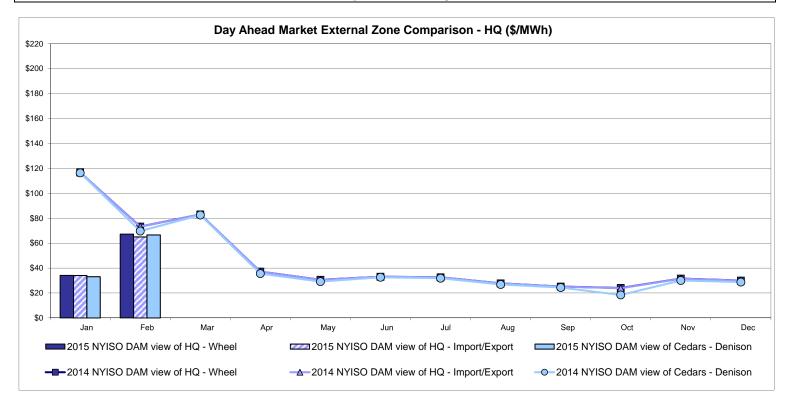
The DAM and R/T prices at the 1385 interface are used for NYISO.

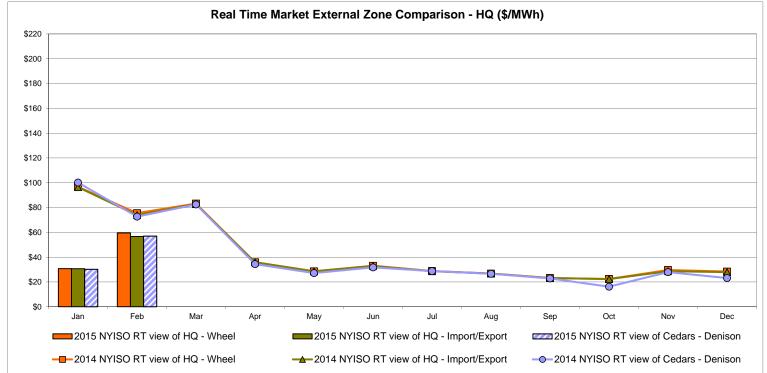


## External Controllable Line: Neptune (PJM)



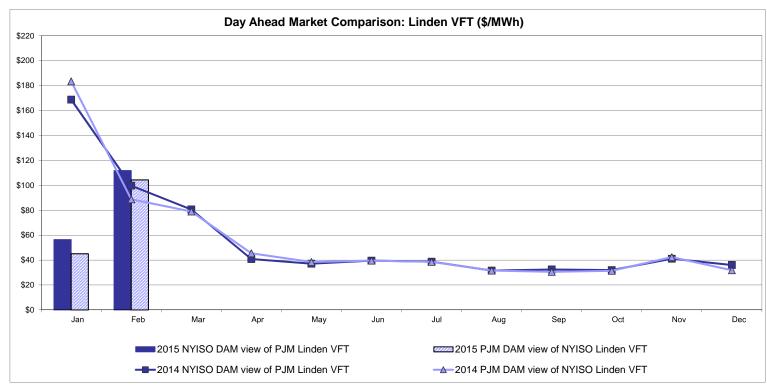
## **External Comparison Hydro-Quebec**



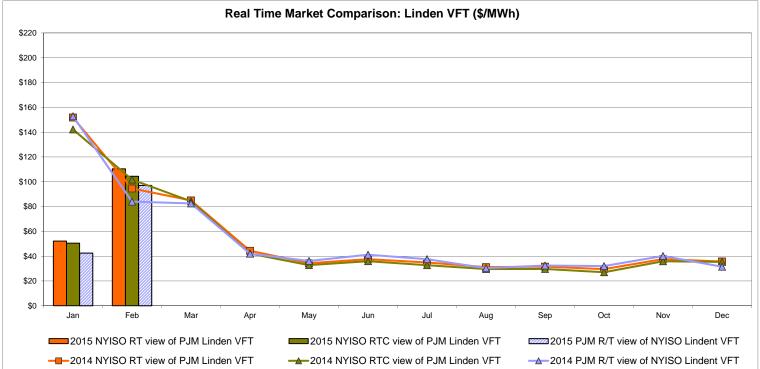


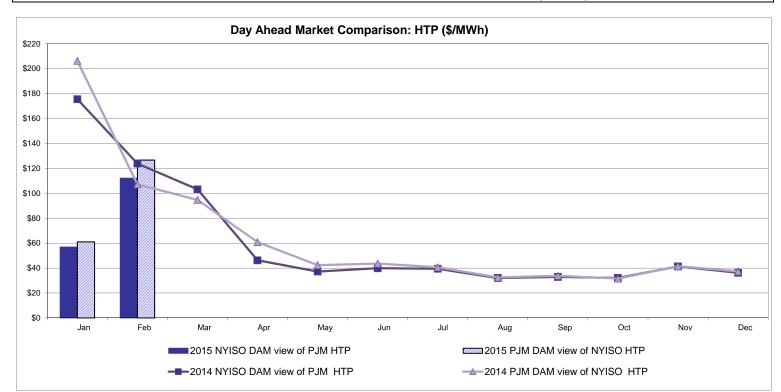
Note:

Hydro-Quebec Prices are unavailable.

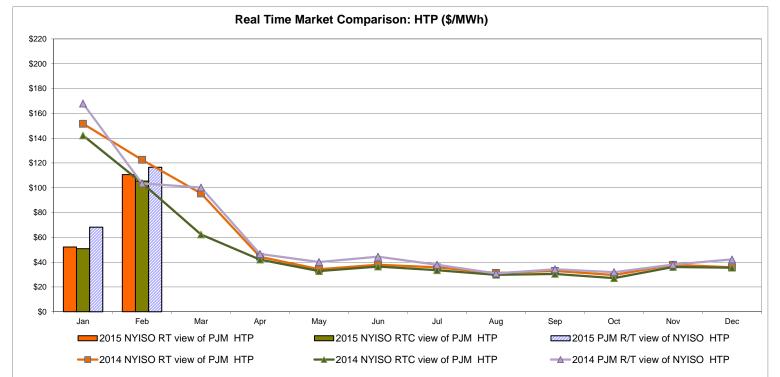


## External Controllable Line: Linden VFT (PJM)





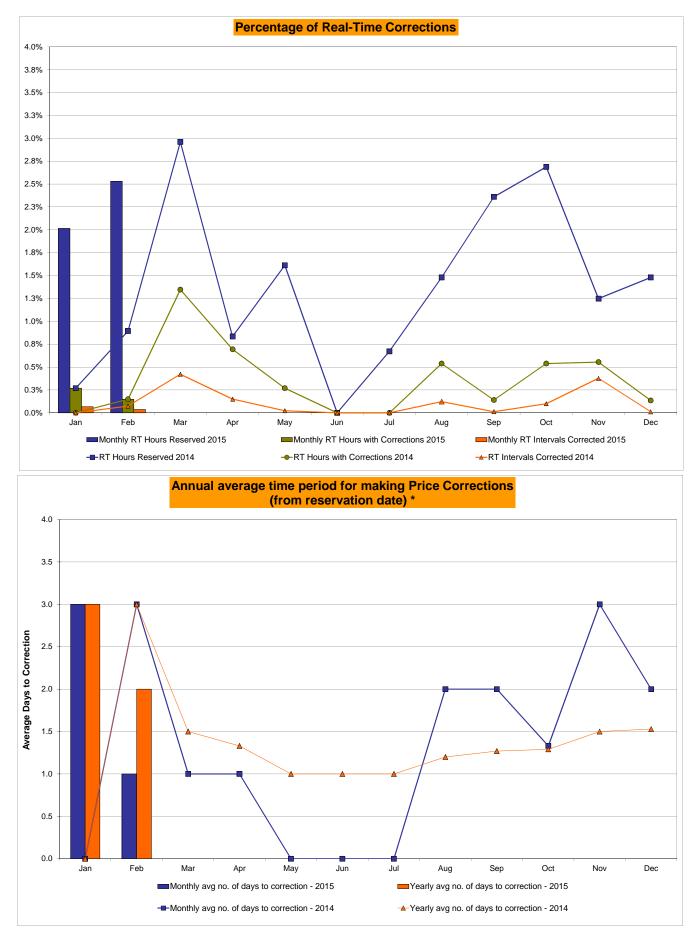
## External Controllable Line: Hudson (PJM)



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

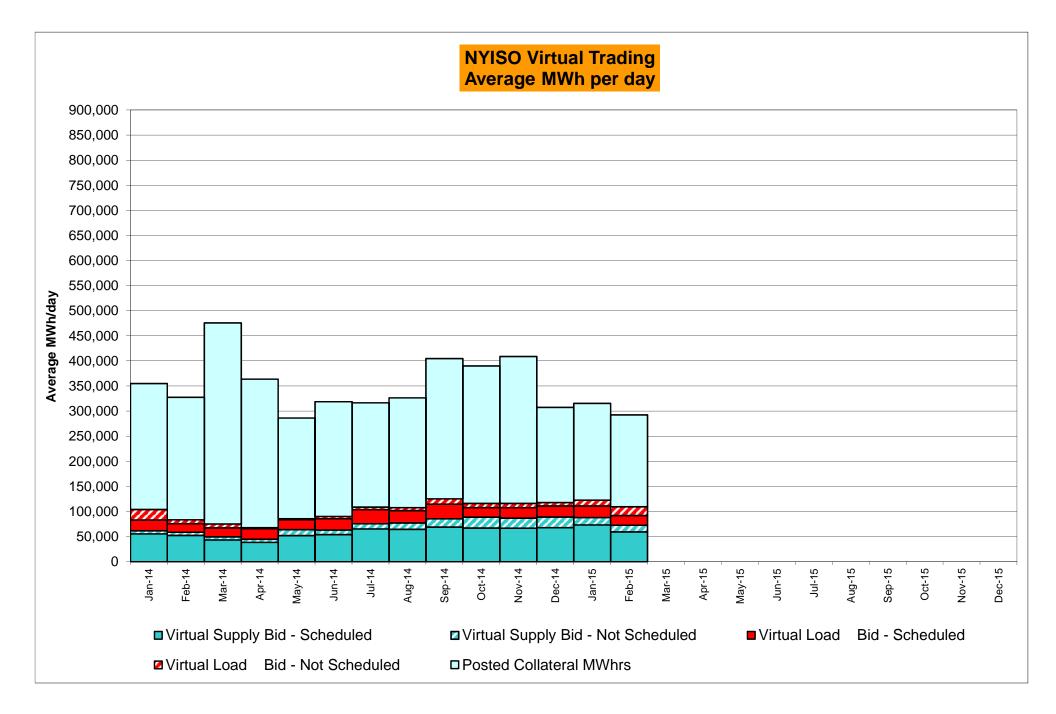
<u>2015</u>		<u>January</u>	February	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections	in the survey of the	0	4										
Number of hours with corrections	in the month	2	1 672										
Number of hours % of hours with corrections	in the month in the month	744 0.27%	072 0.15%										
% of hours with corrections	in the month	0.27%	0.15%										
% of hours with corrections	year-to-date	0.27%	0.21%										
Interval Corrections													
Number of intervals corrected	in the month	6	3										
Number of intervals	in the month	9,066	8,231										
% of intervals corrected	in the month	0.07%	0.04%										
% of intervals corrected	year-to-date	0.07%	0.05%										
Hours Reserved													
Number of hours reserved	in the month	15	17										
Number of hours	in the month	744	672										
% of hours reserved	in the month	2.02%	2.53%										
% of hours reserved	year-to-date	2.02%	2.26%										
Days to Correction *													
Avg. number of days to correction	in the month	3.00	1.00										
Avg. number of days to correction	year-to-date	3.00	2.00										
Days Without Corrections													
Days without corrections	in the month	30	27										
Days without corrections	year-to-date	30	57										
2014		January	February	March	April	May	June	July	August	September	October	November	December
2014 Hour Corrections		<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	<u>December</u>
	in the month	<u>January</u> 0	<u>February</u> 1	<u>March</u> 10	<u>April</u> 5	<u>May</u> 2	<u>June</u> 0	<u>July</u> 0	<u>August</u> 4	<u>September</u> 1	<u>October</u> 4	<u>November</u> 4	<u>December</u> 1
Hour Corrections	in the month in the month												
Hour Corrections Number of hours with corrections		0	1	10	5	2	0	0	4	1	4	4	1
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	1 672	10 743	5 720	2 744	0 720	0 744	4 744	1 720	4 744	4 721	1 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	1 672 0.15%	10 743 1.35%	5 720 0.69%	2 744 0.27%	0 720 0.00%	0 744 0.00%	4 744 0.54%	1 720 0.14%	4 744 0.54%	4 721 0.55%	1 744 0.13%
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%	1 672 0.15%	10 743 1.35%	5 720 0.69%	2 744 0.27%	0 720 0.00%	0 744 0.00%	4 744 0.54%	1 720 0.14%	4 744 0.54%	4 721 0.55%	1 744 0.13%
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%	1 672 0.15% 0.07%	10 743 1.35% 0.51%	5 720 0.69% 0.56%	2 744 0.27% 0.50%	0 720 0.00% 0.41%	0 744 0.00% 0.35%	4 744 0.54% 0.38%	1 720 0.14% 0.35%	4 744 0.54% 0.37%	4 721 0.55% 0.39%	1 744 0.13% 0.37%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	0 744 0.00% 0.00%	1 672 0.15% 0.07%	10 743 1.35% 0.51% 38	5 720 0.69% 0.56%	2 744 0.27% 0.50%	0 720 0.00% 0.41%	0 744 0.00% 0.35% 0	4 744 0.54% 0.38% 11	1 720 0.14% 0.35% 1	4 744 0.54% <u>0.37%</u> 9	4 721 0.55% 0.39% 33	1 744 0.13% <u>0.37%</u> 1
Hour Corrections           Number of hours with corrections           Number of hours           % of hours with corrections           % of hours with corrections           Interval Corrections           Number of intervals corrected           Number of intervals	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,232	1 672 0.15% 0.07% 6 8,205	10 743 1.35% 0.51% 38 9,023	5 720 0.69% 0.56% 13 8,720	2 744 0.27% 0.50% 2 9,030	0 720 0.00% 0.41% 0 8,729	0 744 0.00% 0.35% 0 8,999	4 744 0.54% 0.38% 11 8,975	1 720 0.14% 0.35% 1 8,779	4 744 0.54% <u>0.37%</u> 9 9,026	4 721 0.55% 0.39% 33 8,763	1 744 0.13% <u>0.37%</u> 1 9,030
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,232 0.00%	1 672 0.15% 0.07% 6 8,205 0.07%	10 743 1.35% 0.51% 38 9,023 0.42%	5 720 0.69% 0.56% 13 8,720 0.15%	2 744 0.27% 0.50% 2 9,030 0.02%	0 720 0.00% 0.41% 0 8,729 0.00%	0 744 0.00% 0.35% 0 8,999 0.00%	4 744 0.54% 0.38% 11 8,975 0.12%	1 720 0.14% 0.35% 1 8,779 0.01%	4 744 0.54% 0.37% 9 9,026 0.10%	4 721 0.55% 0.39% 33 8,763 0.38%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,232 0.00%	1 672 0.15% 0.07% 6 8,205 0.07%	10 743 1.35% 0.51% 38 9,023 0.42%	5 720 0.69% 0.56% 13 8,720 0.15%	2 744 0.27% 0.50% 2 9,030 0.02%	0 720 0.00% 0.41% 0 8,729 0.00%	0 744 0.00% 0.35% 0 8,999 0.00%	4 744 0.54% 0.38% 11 8,975 0.12%	1 720 0.14% 0.35% 1 8,779 0.01%	4 744 0.54% 0.37% 9 9,026 0.10%	4 721 0.55% 0.39% 33 8,763 0.38%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10%	4 744 0.54% 0.38% 11 8,975 0.12% 0.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% 0.11%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         Mumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6	10 743 1.35% 0.51% 9,023 0.42% 0.17% 22	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours         % of intervals corrected	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67%	4 744 0.54% 0.38% 11 8,975 0.12% 0.12% 0.10% 11 744 1.48%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11 744 1.48%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         Mumber of hours reserved         Number of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 672	10 743 1.35% 0.51% 9,023 0.42% 0.17% 22 743	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11 744
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67%	4 744 0.54% 0.38% 11 8,975 0.12% 0.12% 0.10% 11 744 1.48%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11 744 1.48%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number 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 year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83% 1.25%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04%	4 744 0.54% 0.38% 11 8,975 0.12% 0.12% 0.10% 11 744 1.48% 1.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 672 0.89% 0.56% 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved         Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 672 0.89% 0.56% 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved         Avg. number of days to correction Avg. number of days to correction         Avg. Number of days to correction	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.27% 0.00 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56% 3.00 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00 1.50	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00 1.33	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00 1.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00 1.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00 1.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00 1.20	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00 1.27	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33 1.29	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00 1.50	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00 1.53

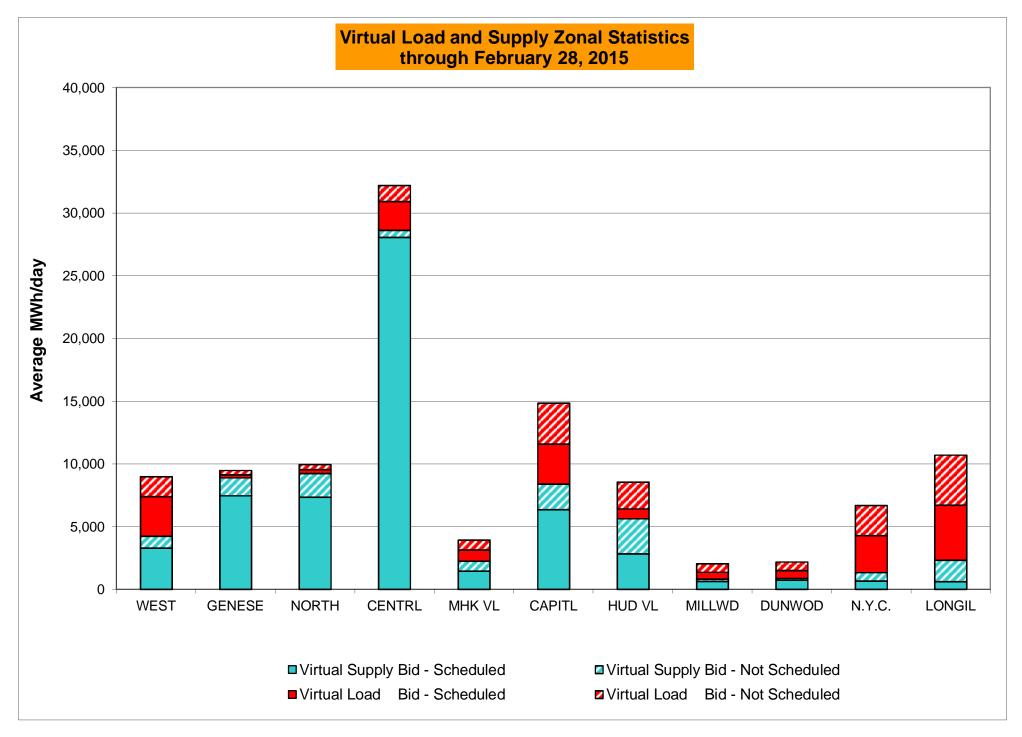
\* Calendar days from reservation date.



\* Calendar days from reservation date.

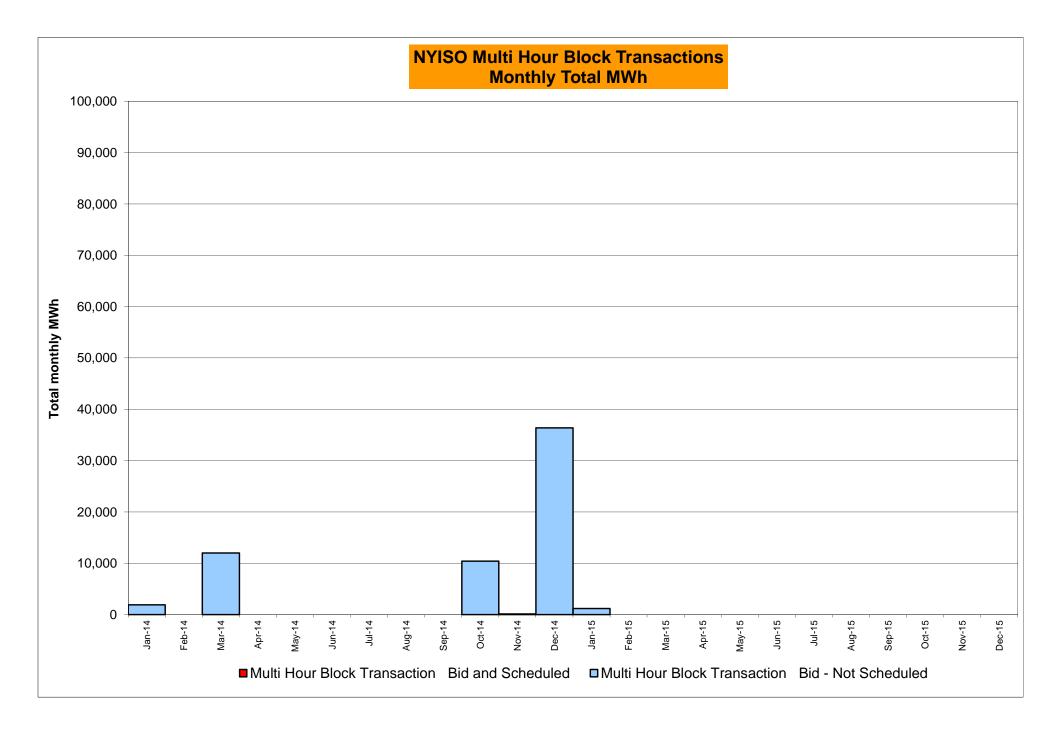
Market Mitigation and Analysis Prepared: 3/6/2015 1:17 PM

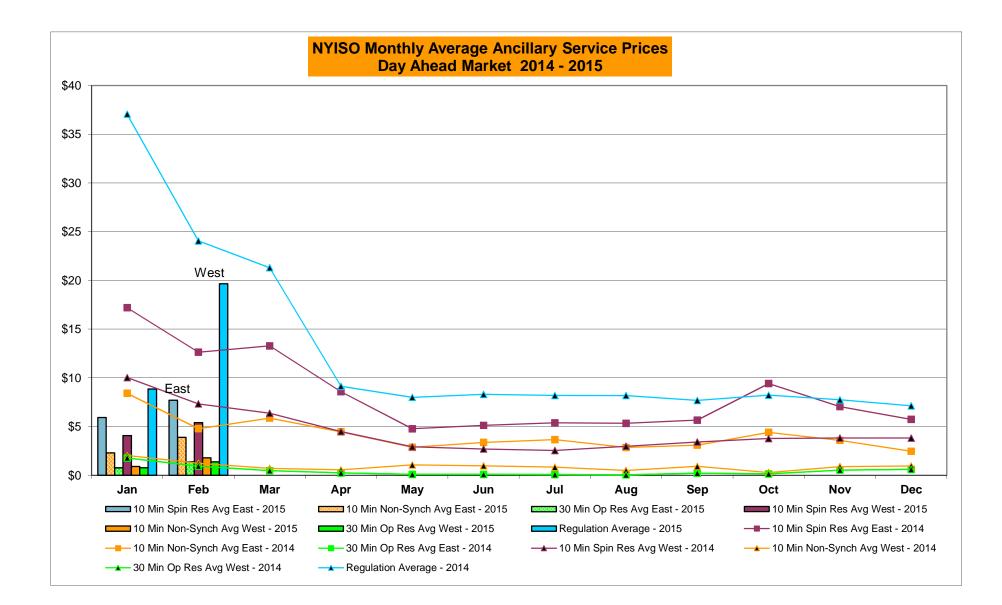


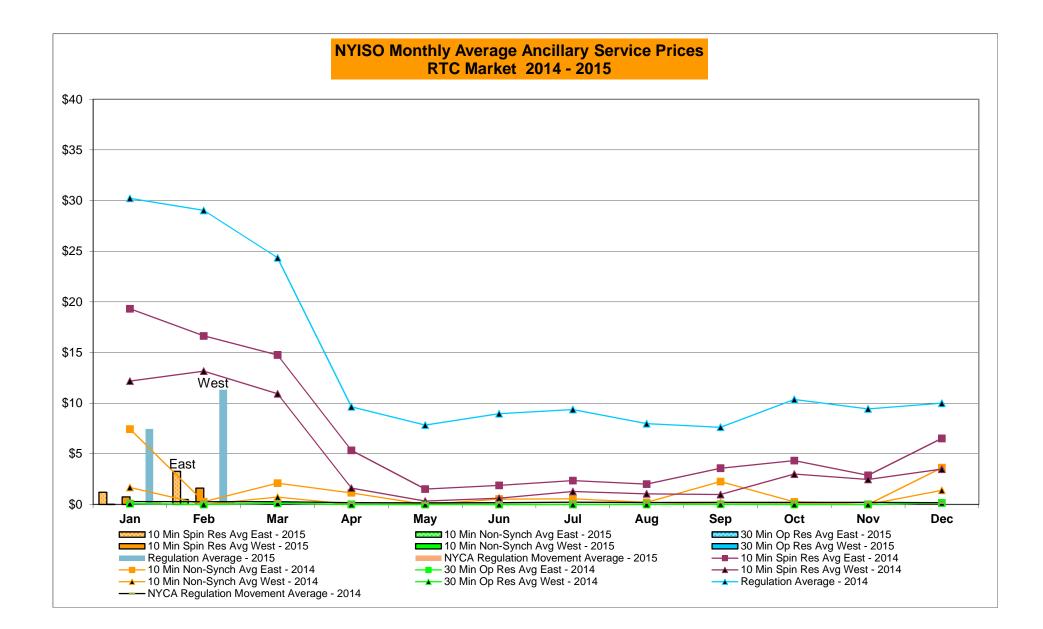


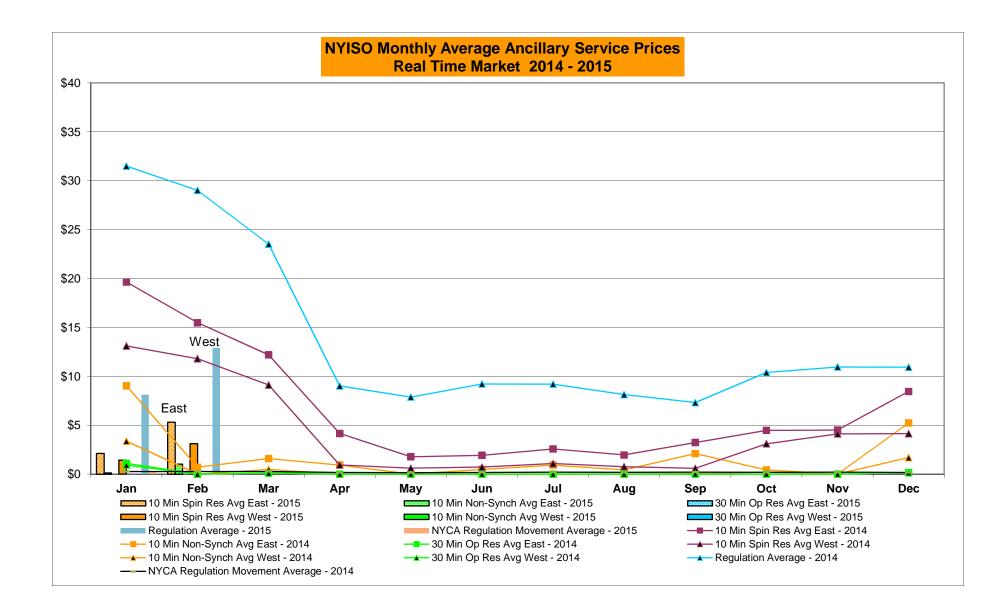
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2015

		Virtual L	oad Bid	Virtual S	upply Bid			Virtual L	oad Bid	Virtual Su	pply Bid			Virtual L	.oad Bid	Virtual Su	pply Bid
			Not		Not				Not		Not				Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-15	6,244	977	3,837	688	MHK VL	Jan-15		185	1,757	1,021	DUNWOD	Jan-15	669	444	831	166
	Feb-15	3,180	1,570	3,288	936		Feb-15	901	790	1,446	812		Feb-15	647	663	725	156
	Mar-15						Mar-15						Mar-15				
	Apr-15						Apr-15						Apr-15				
	May-15						May-15						May-15				
	Jun-15						Jun-15						Jun-15				
	Jul-15						Jul-15						Jul-15				
	Aug-15						Aug-15						Aug-15				
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
GENESE	Jan-15	444	147	9,467	1,422	CAPITL	Jan-15	1,816	1,292	9,400	1,563	N.Y.C.	Jan-15	3,367	1,572	887	2,429
OLINEOL	Feb-15	229		7,477	1,425	UAITE	Feb-15		3,267	6,354	2,035	N.1.0.	Feb-15		2,375		690
	Mar-15	220	011	,	1,120		Mar-15		0,201	0,001	2,000		Mar-15		2,010	000	000
	Apr-15						Apr-15						Apr-15				
	May-15						May-15						May-15				
	Jun-15						Jun-15						Jun-15				
	Jul-15						Jul-15						Jul-15				
	Aug-15						Aug-15						Aug-15				
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
NODTU	1 45	507	000	7 500	0.000		1 45	4 000	4 7 4 7	4 700	0.400	LONGIL	1 45	5 540	0.005	F 47	4 40
NORTH	Jan-15 Feb-15	537 274	300 423	7,590 7,361	2,868 1,898	HUD VL	Jan-15 Feb-15		1,747 2,147	4,703	2,133 2,800	LONGIL	Jan-15 Feb-15		3,925 3,985	547 613	1,487
	Mar-15	274	423	7,301	1,090		Mar-15		2,147	2,041	2,000		Mar-15		3,900	013	1,722
	Apr-15						Apr-15						Apr-15				
	May-15						May-15						May-15				
	Jun-15						Jun-15						Jun-15				
	Jul-15					_	Jul-15						Jul-15				
	Aug-15						Aug-15						Aug-15				
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
CENTRL	Jan-15	2,414		33,426	776	MILLWD	Jan-15		244	716		NYISO	Jan-15		11,774		14,746
	Feb-15 Mar-15	2,306	1,265	28,050	579		Feb-15 Mar-15		674	627	186		Feb-15 Mar-15		17,506	59,440	13,238
	Apr-15 May-15					_	Apr-15 May-15						Apr-15 May-15				
	Jun-15						Jun-15						Jun-15				
	Jul-15						Jul-15						Jul-15				
	Aug-15						Aug-15						Aug-15				
	Sep-15					-	Sep-15						Sep-15				
	Oct-15					-	Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				



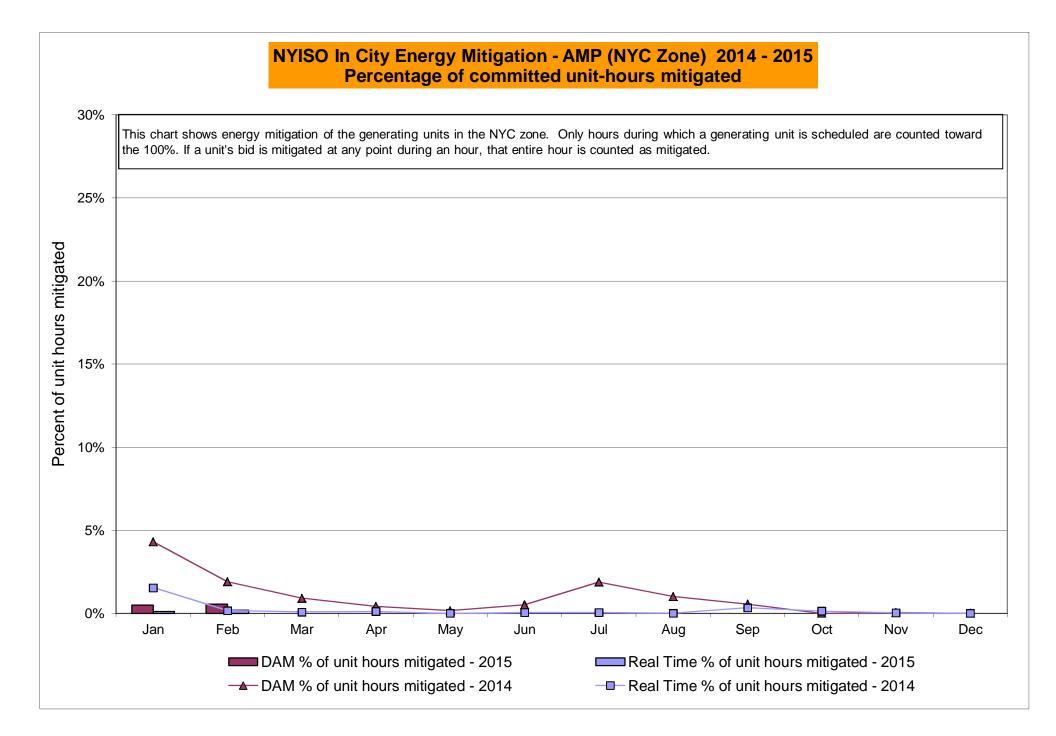


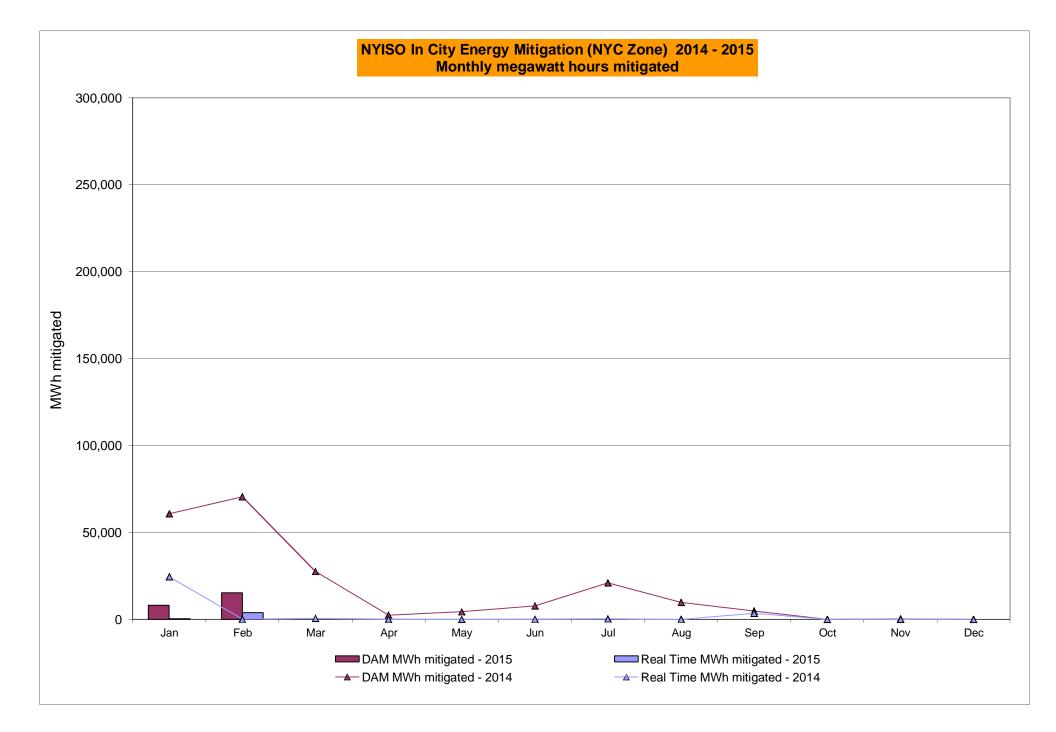


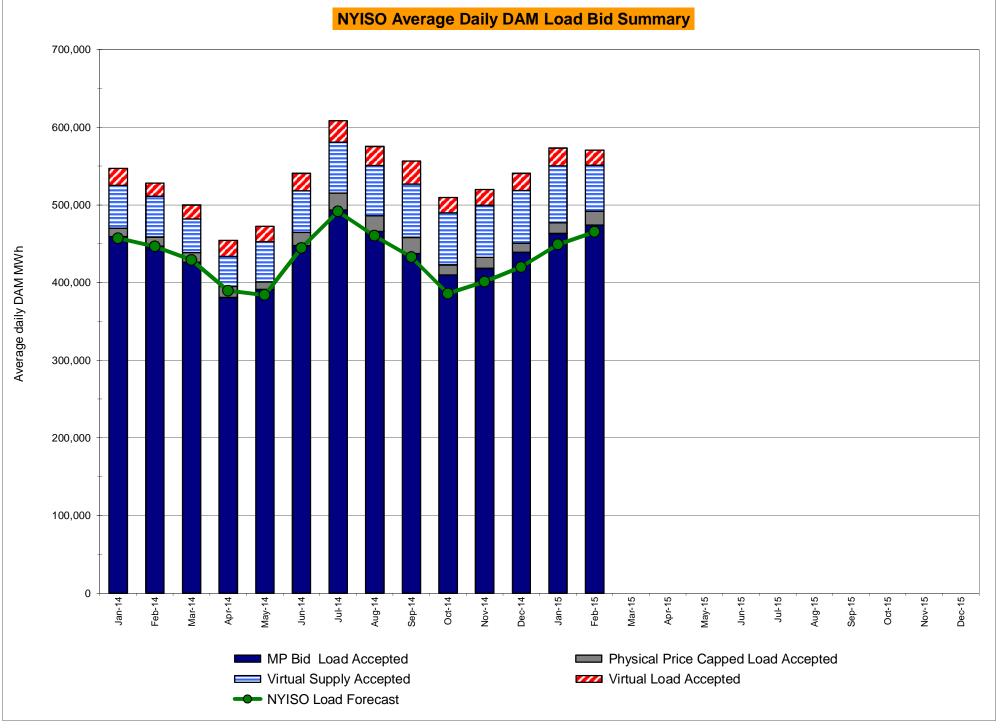


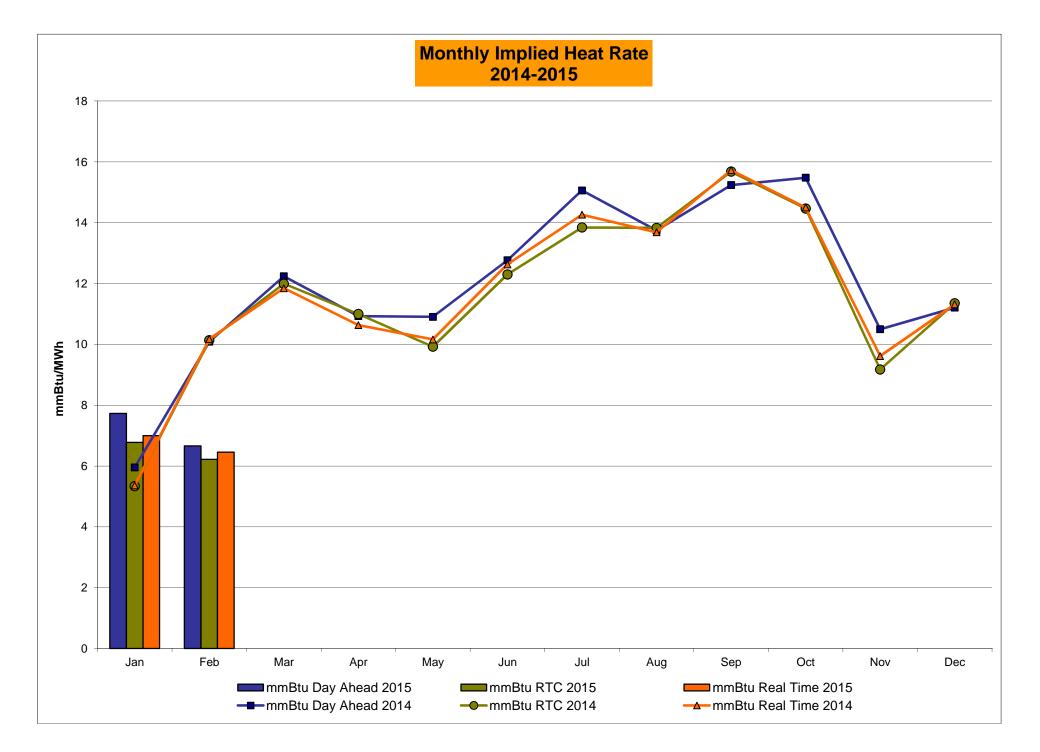
#### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

	January	February	March	<u>April</u>	May	June	<u>July</u>	August	September	October	November	December
Day Ahead Market 10 Min Spin East	5.92	7.69										
10 Min Spin Last	4.07	5.40										
10 Min Non Synch East	2.30	3.89										
10 Min Non Synch West	0.90	1.79										
30 Min East	0.77	1.38										
30 Min West	0.77	1.38										
Regulation	8.84	19.65										
-	0.01	10.00										
RTC Market	4.00	0.07										
10 Min Spin East	1.20	3.27										
10 Min Spin West	0.74	1.61										
10 Min Non Synch East	0.01	0.48										
10 Min Non Synch West	0.00	0.00										
30 Min East	0.00	0.00										
30 Min West	0.00	0.00										
Regulation	7.45	11.32										
NYCA Regulation Movement	0.21	0.21										
Real Time Market												
10 Min Spin East	2.12	5.31										
10 Min Spin West	1.44	3.11										
10 Min Non Synch East	0.12	1.03										
10 Min Non Synch West	0.00	0.00										
30 Min East	0.00	0.00										
30 Min West	0.00	0.00										
Desulation	8.12	12.91										
Regulation	0=											
NYCA Regulation Movement	0.20	0.21										
NYCA Regulation Movement	0.20	0.21	March	April	May	June	July	August	September	October	November	December
NYCA Regulation Movement			March	<u>April</u>	<u>May</u>	June	July	<u>August</u>	September	<u>October</u>	November	December
NYCA Regulation Movement 2014 Day Ahead Market	0.20 <u>January</u>	0.21 <u>February</u>			-		-	-				
NYCA Regulation Movement	0.20	0.21	<u>March</u> 13.27 6.36	<u>April</u> 8.57 4.47	<u>May</u> 4.77 2.92	<u>June</u> 5.11 2.69	<u>July</u> 5.37 2.54	<u>August</u> 5.33 2.96	<u>September</u> 5.66 3.41	<u>October</u> 9.41 3.76	<u>November</u> 7.04 3.82	<u>December</u> 5.73 3.82
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East	0.20 <u>January</u> 17.19	0.21 <u>February</u> 12.62	13.27	8.57	4.77	5.11	5.37	5.33	5.66	9.41	7.04	5.73
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	0.20 <u>January</u> 17.19 10.02	0.21 <u>February</u> 12.62 7.32	13.27 6.36	8.57 4.47	4.77 2.92	5.11 2.69	5.37 2.54	5.33 2.96	5.66 3.41	9.41 3.76	7.04 3.82	5.73 3.82
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West	0.20 <u>January</u> 17.19 10.02 8.40	0.21 <u>February</u> 12.62 7.32 4.78	13.27 6.36 5.86	8.57 4.47 4.44	4.77 2.92 2.86	5.11 2.69 3.37	5.37 2.54 3.65	5.33 2.96 2.85	5.66 3.41 3.08	9.41 3.76 4.40	7.04 3.82 3.58	5.73 3.82 2.45
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	0.20 January 17.19 10.02 8.40 2.02	0.21 <u>February</u> 12.62 7.32 4.78 1.23	13.27 6.36 5.86 0.70	8.57 4.47 4.44 0.55	4.77 2.92 2.86 1.06	5.11 2.69 3.37 0.96	5.37 2.54 3.65 0.83	5.33 2.96 2.85 0.49	5.66 3.41 3.08 0.91	9.41 3.76 4.40 0.27	7.04 3.82 3.58 0.89	5.73 3.82 2.45 0.95
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	0.20 January 17.19 10.02 8.40 2.02 1.77	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93	13.27 6.36 5.86 0.70 0.47	8.57 4.47 4.44 0.55 0.24	4.77 2.92 2.86 1.06 0.09	5.11 2.69 3.37 0.96 0.08	5.37 2.54 3.65 0.83 0.08	5.33 2.96 2.85 0.49 0.04	5.66 3.41 3.08 0.91 0.21	9.41 3.76 4.40 0.27 0.14	7.04 3.82 3.58 0.89 0.53	5.73 3.82 2.45 0.95 0.60
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77	0.21 February 12.62 7.32 4.78 1.23 0.93 0.93	13.27 6.36 5.86 0.70 0.47 0.47	8.57 4.47 4.44 0.55 0.24 0.24	4.77 2.92 2.86 1.06 0.09 0.09	5.11 2.69 3.37 0.96 0.08 0.08	5.37 2.54 3.65 0.83 0.08 0.08	5.33 2.96 2.85 0.49 0.04 0.04	5.66 3.41 3.08 0.91 0.21 0.21	9.41 3.76 4.40 0.27 0.14 0.14	7.04 3.82 3.58 0.89 0.53 0.53	5.73 3.82 2.45 0.95 0.60 0.60
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05	0.21 February 12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29	8.57 4.47 4.44 0.55 0.24 0.24 9.12	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18	5.33 2.96 2.85 0.49 0.04 0.04 8.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67	9.41 3.76 4.40 0.27 0.14 0.14 8.21	7.04 3.82 3.58 0.89 0.53 0.53 7.74	5.73 3.82 2.45 0.95 0.60 0.60 7.12
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West	0.20 <u>January</u> 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch East	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Synch East 10 Min Non Synch West	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin East 10 Min Synch East 10 Min Non Synch West 30 Min East	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 24.05 16.64 13.16 0.26 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East 30 Min West	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 24.35	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 7.97	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 0.00 29.03 0.27	$\begin{array}{c} 13.27\\ 6.36\\ 5.86\\ 0.70\\ 0.47\\ 21.29\\ 14.76\\ 10.93\\ 2.10\\ 0.72\\ 0.12\\ 0.12\\ 24.35\\ 0.26\\ \end{array}$	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 8.20 0.00 0.00 0.00 0.00 7.97 0.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}\\ \begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 0.00\\ 10.36\\ 0.20\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market 10 Min Spin East	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 30.21 0.28 19.64	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 0.12 24.35 0.26	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17 4.15	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21 2.57	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97 0.18	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 9.42 0.20 4.51	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28 19.64 13.10	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48 11.80	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17 4.15 0.94	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 0.00 7.83 0.15	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21 2.57 1.08	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97 0.18 1.96 0.76	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23 0.60	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47 3.10	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 30.21 0.28 19.64 13.10 9.03	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48 11.80 0.70	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17 4.15 0.94 0.93	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61 0.00	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21 2.57 1.08 0.92	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 7.62 0.21 3.23 0.60 2.09	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}\\\\ \begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 10.36\\ 0.20\\ \end{array}\\\\ \begin{array}{c} 4.47\\ 3.10\\ 0.42\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14 5.23
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West 10 Min Spin East 10 Min Spin West 10 Min Spin Kest 10 Min Spin West	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 30.21 0.28 19.64 13.10 9.03 3.37	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59 0.48	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61 0.00 0.00	5.11 2.69 3.37 0.96 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00	5.37 2.54 3.65 0.83 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21 3.23 0.60 2.09 0.05	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}\\\\ \begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 10.36\\ 0.20\\ \end{array}\\\\ \begin{array}{c} 4.47\\ 3.10\\ 0.42\\ 0.20\\ \end{array}$	$\begin{array}{c} 7.04\\ 3.82\\ 3.58\\ 0.89\\ 0.53\\ 0.53\\ 7.74\\ 2.86\\ 2.46\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.42\\ 0.20\\ \end{array}$	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 9.99 0.17 8.45 4.14 5.23 1.69
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin Kest 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East 30 Min East 30 Min East 30 Min East 30 Min Synch East 30 Min Kon Synch West 30 Min East 30 Min East	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28 19.64 13.10 9.03 3.37 1.10	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00 0.00 9.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00	$\begin{array}{c} 5.66\\ 3.41\\ 3.08\\ 0.91\\ 0.21\\ 0.21\\ 7.67\\ \end{array}\\ \begin{array}{c} 3.57\\ 0.98\\ 2.25\\ 0.17\\ 0.02\\ 0.02\\ 7.62\\ 0.21\\ \end{array}\\ \begin{array}{c} 3.23\\ 0.60\\ 2.09\\ 0.05\\ 0.00\\ \end{array}$	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}\\\\ \begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 10.36\\ 0.20\\ \end{array}\\\\ \begin{array}{c} 4.47\\ 3.10\\ 0.42\\ 0.20\\ 0.00\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14 5.23 1.69 0.16
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch West 30 Min Cast 30 Min Cast 30 Min Kast 30 Min Kast	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 30.21 0.28 19.64 13.10 9.03 3.37 1.10 0.92	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11 0.11	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00 0.00 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61 0.00 0.00 0.00 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00 0.00	$\begin{array}{c} 5.66\\ 3.41\\ 3.08\\ 0.91\\ 0.21\\ 0.21\\ 7.67\\ \end{array}\\ \begin{array}{c} 3.57\\ 0.98\\ 2.25\\ 0.17\\ 0.02\\ 0.02\\ 7.62\\ 0.21\\ \end{array}\\ \begin{array}{c} 3.23\\ 0.60\\ 2.09\\ 0.05\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}\\\\ \begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 10.36\\ 0.20\\ \end{array}\\\\ \begin{array}{c} 4.47\\ 3.10\\ 0.42\\ 0.20\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 0.15 9.99 0.17 8.45 4.14 5.23 1.69 0.16 0.16
NYCA Regulation Movement 2014 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin Kest 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East 30 Min East 30 Min East 30 Min East 30 Min Synch East 30 Min Kon Synch West 30 Min East 30 Min East	0.20 January 17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28 19.64 13.10 9.03 3.37 1.10	0.21 <u>February</u> 12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00 0.00 0.00 0.00	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00 0.00 9.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15 1.78 0.61 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 8.18 2.00 1.04 0.20 0.00 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00	$\begin{array}{c} 5.66\\ 3.41\\ 3.08\\ 0.91\\ 0.21\\ 0.21\\ 7.67\\ \end{array}\\ \begin{array}{c} 3.57\\ 0.98\\ 2.25\\ 0.17\\ 0.02\\ 0.02\\ 7.62\\ 0.21\\ \end{array}\\ \begin{array}{c} 3.23\\ 0.60\\ 2.09\\ 0.05\\ 0.00\\ \end{array}$	$\begin{array}{c} 9.41\\ 3.76\\ 4.40\\ 0.27\\ 0.14\\ 0.14\\ 8.21\\ \end{array}\\\\ \begin{array}{c} 4.32\\ 2.99\\ 0.25\\ 0.13\\ 0.00\\ 10.36\\ 0.20\\ \end{array}\\\\ \begin{array}{c} 4.47\\ 3.10\\ 0.42\\ 0.20\\ 0.00\\ \end{array}$	7.04 3.82 3.58 0.89 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 0.00 9.42 0.20 4.51 4.12 0.00 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14 5.23 1.69 0.16

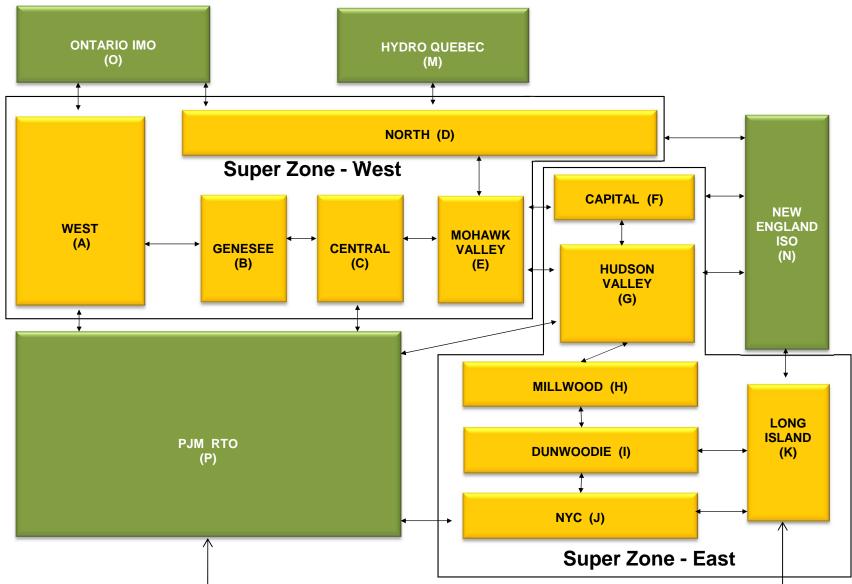








# NYISO LBMP ZONES



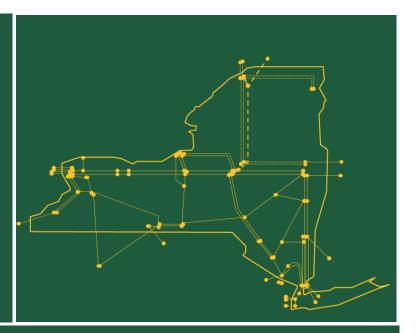
Market Mitigation and Analysis Prepared: 3/2/2015 10:04 AM

#### Billing Codes for Chart 4-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 New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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