

Market Operations Report

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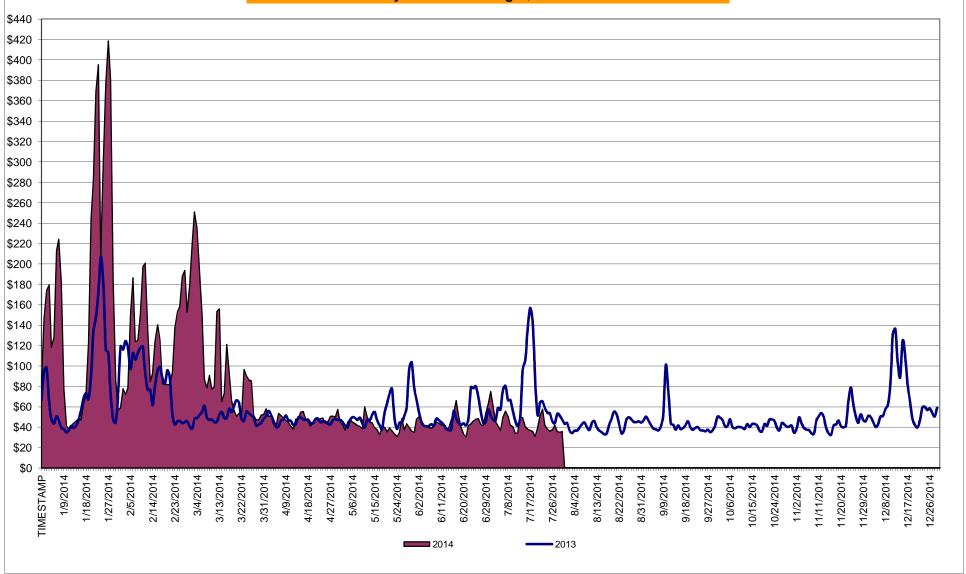
Business Issues Committee Meeting *August 13, 2014*

Market Performance Highlights for July 2014

- LBMP for July is \$43.96/MWh; higher than \$43.38/MWh in June 2014 and 36% lower than \$68.49/MWh in July 2013.
 - Day Ahead Load Weighted LBMPs are slightly higher compared to June.
 - Real Time Load Weighted LBMPs are lower compared to June.
- July 2014 average year-to-date monthly cost of \$89.43/MWh is a 37% increase from \$65.10/MWh in July 2013.
- Average daily sendout is 496 GWh/day in July; higher than 456 GWh/day in June 2014 and lower than 561 GWh/day in July 2013.
- Natural gas and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$2.66/MMBtu, down 18% from \$3.26/MMBtu in June.
 - Jet Kerosene Gulf Coast was \$20.87/MMBtu, down from \$21.36/MMBtu in June.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$20.58/MMBtu, down from \$21.16/MMBtu in June.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.26)/MWh; lower than (\$0.21)/MWh in June.
 - The Local Reliability Share is \$0.29/MWh, lower than \$0.32 in June.
 - The Statewide Share is (\$0.55)/MWh, lower than (\$0.53)/MWh in June.
 - TSA \$ per NYC MWh is \$0.35/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than June.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*

2013 Annual Average \$59.13/MWh July 2013 YTD Average \$65.10/MWh July 2014 YTD Average \$89.43/MWh

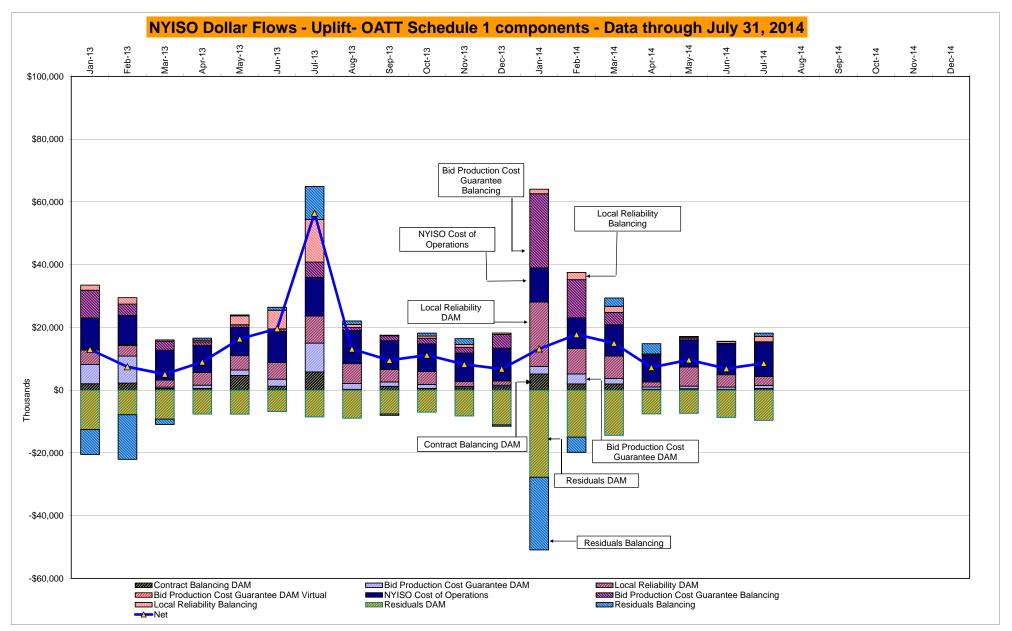


^{*} Excludes ICAP payments.

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

2014	lanuani	Fobruary.	March	Anril	Mov	luna	luki	August	Cantambar	Ootobor	November	Dagambar
LBMP	<u>January</u> 183.36	<u>February</u> 123.19	<u>March</u> 109.58	<u>April</u> 46.08	<u>May</u> 40.29	<u>June</u> 43.38	<u>July</u> 43.96	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
NTAC	0.56	0.64	0.39	1.18	0.69	43.36 0.78	0.43					
Reserve	0.78	0.49	0.56	0.46	0.09	0.78	0.43					
Regulation	0.78	0.43	0.30	0.40	0.20	0.12	0.12					
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69	0.69					
Uplift	0.17	0.58	0.35	(0.09)	0.03	(0.21)	(0.26)					
Uplift: Local Reliability Share	1.43	0.75	0.63	0.15	0.51	0.32	0.29					
Uplift: Statewide Share	(1.26)	(0.17)	(0.27)	(0.24)	(0.44)	(0.53)	(0.55)					
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36					
Avg Monthly Cost	186.18	126.16	112.15	48.82	42.50	45.38	45.56					
Avg monthly obst	100.10	120.10	112.10	40.02	42.00	40.00	40.00					
Avg YTD Cost	186.18	157.91	142.76	121.95	108.33	97.81	89.43					
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.03	0.35					
2013	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	October	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
2012	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	October	November	December
LBMP	44.00	32.45	28.98	28.31	34.68	47.37	63.80	46.24	39.59	39.30	50.16	44.67
NTAC	0.85	0.80	0.68	0.71	0.72	0.77	0.58	0.65	0.57	0.70	0.75	0.83
Reserve	0.35	0.25	0.38	0.32	0.13	0.36	0.36	0.22	0.23	0.29	0.40	0.26
Regulation	0.10	0.08	0.13	0.12	0.09	0.15	0.15	0.12	0.09	0.10	0.11	0.09
NYISO Cost of Operations	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Uplift	0.44	0.17	0.00	(0.18)	(0.11)	0.61	0.23	0.22	(0.33)	1.04	0.82	(0.11)
Uplift: Local Reliability Share	0.49	0.27	0.19	0.07	0.25	0.42	0.49	0.83	0.26	0.67	0.72	0.30
Uplift: Statewide Share	(0.05)	(0.10)	(0.19)	(0.25)	(0.36)	0.19	(0.26)	(0.61)	(0.59)	0.38	0.11	(0.41)
Voltage Support and Black Start _	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Avg Monthly Cost	46.75	34.75	31.19	30.29	36.52	50.27	66.14	48.46	41.17	42.44	53.26	46.74
Avg YTD Cost	46.75	41.12	37.96	36.09	36.18	38.89	44.26	44.91	44.51	44.33	45.14	45.28
TSA \$ per NYC MWh * Excludes ICAP payments	0.00	0.00	0.00	0.00	1.52	0.45	0.85	0.46	0.59	0.00 Data n	0.00	0.00 u Mar 2014.

* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 8/5/2014 9:19 AM



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

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

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

NYISO Markets Transactions

2014	January	February	March	<u>April</u>	May	<u>June</u>	July	August	September	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					
DAM LSE Internal LBMP Energy Sales	52%	50%	53%	56%	53%	54%	58%					
DAM External TC LBMP Energy Sales	5%	7%	6%	3%	2%	3%	1%					
DAM Bilateral - Internal Bilaterals	36%	36%	35%	33%	38%	36%	34%					
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	1%	2%	2%	1%	1%					
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	0%	1%	1%	1%					
Balancing Energy Market MWh	-249,484	-298,340	-116,173	58,263	-503,552	-553,748	-848,037					
Balancing Energy LSE Internal LBMP Energy Sales	-232%	-203%	-294%	-170%	-134%	-114%	-116%					
Balancing Energy External TC LBMP Energy Sales	105%	76%	97%	191%	22%	22%	18%					
Balancing Energy Bilateral - Internal Bilaterals	20%	26%	69%	26%	3%	7%	4%					
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	12%	0%	3%	0%	0%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	11%	6%	25%	63%	5%	3%	2%					
Balancing Energy Bilateral - Wheel Through Bilaterals	-4%	-6%	-10%	-11%	1%	-18%	-8%					
Transactions Summary												
LBMP	56%	56%	57%	59%	53%	55%	57%					
Internal Bilaterals	37%	37%	36%	33%	39%	38%	36%					
Import Bilaterals	5%	5%	5%	6%	5%	5%	5%					
Export Bilaterals	2%	1%	2%	2%	2%	1%	1%					
Wheels Through	1%	1%	1%	0%	1%	1%	1%					
Market Share of Total Load												
Day Ahead Market	101.6%	102.1%	100.8%	99.5%	104.0%	103.9%	105.4%					
Balancing Energy +	-1.6%	-2.1%	-0.8%	0.5%	-4.0%	-3.9%	-5.4%					
Total MWH	15,784,780	14,111,175	14,517,397	12,160,010	12,480,906	14,166,181	15,680,301					
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496					
2013	January	February	March	April	Mav	June	July	August	September	October	November	December
2013 Day Ahoad Market MWh	<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u> 17 974 314	August	September	October	November	December
Day Ahead Market MWh	15,140,096	14,116,189	14,250,091	12,963,905	13,451,310	14,872,971	17,974,314	16,090,437	14,021,472	13,411,499	13,692,854	15,406,816
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	15,140,096 56%	14,116,189 55%	14,250,091 56%	12,963,905 57%	13,451,310 56%	14,872,971 57%	17,974,314 59%	16,090,437 57%	14,021,472 55%	13,411,499 51%	13,692,854 52%	15,406,816 52%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	15,140,096 56% 4%	14,116,189 55% 6%	14,250,091 56% 3%	12,963,905 57% 3%	13,451,310 56% 1%	14,872,971 57% 1%	17,974,314 59% 1%	16,090,437 57% 0%	14,021,472 55% 0%	13,411,499 51% 0%	13,692,854 52% 3%	15,406,816 52% 6%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	15,140,096 56% 4% 38%	14,116,189 55% 6% 37%	14,250,091 56% 3% 38%	12,963,905 57% 3% 37%	13,451,310 56% 1% 37%	14,872,971 57% 1% 36%	17,974,314 59% 1% 33%	16,090,437 57% 0% 36%	14,021,472 55% 0% 38%	13,411,499 51% 0% 41%	13,692,854 52% 3% 40%	15,406,816 52% 6% 36%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	15,140,096 56% 4% 38% 0%	14,116,189 55% 6% 37% 0%	14,250,091 56% 3% 38% 0%	12,963,905 57% 3% 37% 0%	13,451,310 56% 1% 37% 3%	14,872,971 57% 1% 36% 4%	17,974,314 59% 1% 33% 5%	16,090,437 57% 0% 36% 5%	14,021,472 55% 0% 38% 4%	13,411,499 51% 0% 41% 5%	13,692,854 52% 3% 40% 4%	15,406,816 52% 6% 36% 4%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	15,140,096 56% 4% 38% 0% 1%	14,116,189 55% 6% 37% 0% 1%	14,250,091 56% 3% 38% 0% 1%	12,963,905 57% 3% 37% 0% 1%	13,451,310 56% 1% 37% 3% 1%	14,872,971 57% 1% 36% 4% 1%	17,974,314 59% 1% 33% 5% 1%	16,090,437 57% 0% 36% 5% 1%	14,021,472 55% 0% 38% 4% 1%	13,411,499 51% 0% 41% 5% 1%	13,692,854 52% 3% 40% 4% 2%	15,406,816 52% 6% 36% 4% 1%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	15,140,096 56% 4% 38% 0% 1%	14,116,189 55% 6% 37% 0% 1% 1%	14,250,091 56% 3% 38% 0% 1% 1%	12,963,905 57% 3% 37% 0% 1% 1%	13,451,310 56% 1% 37% 3% 1% 1%	14,872,971 57% 1% 36% 4% 1%	17,974,314 59% 1% 33% 5% 1% 1%	16,090,437 57% 0% 36% 5% 1%	14,021,472 55% 0% 38% 4% 1% 1%	13,411,499 51% 0% 41% 5% 1% 1%	13,692,854 52% 3% 40% 4% 2% 1%	15,406,816 52% 6% 36% 4% 1% 1%
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Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales	15,140,096 56% 4% 38% 0% 1% 1% -471,167 -131%	14,116,189 55% 6% 37% 0% 1% 1% -648,574 -117%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127%	12,963,905 57% 3% 37% 0% 1% 1% -525,278 -123%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133%	14,872,971 57% 1% 36% 4% 1% 1% -669,315 -115%	17,974,314 59% 1% 33% 5% 1% 1% -294,946 -189%	16,090,437 57% 0% 36% 5% 1% 1% -915,232 -113%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134%	15,406,816 52% 6% 36% 4% 1% 1% -531,521 -130%
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Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals BAIANCING Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0% 5% -11% 59% 39% 0% 1% 1%	14,116,189 55% 6% 37% 0% 1% -648,574 -117% 20% 10% 0% -16% 59% 39% 0% 1% 0%	14,250,091 56% 3% 38% 0% 1% -501,253 -127% 23% 11% 0% 4% -11% 58% 40% 0% 2% 1%	12,963,905 57% 3% 37% 0% 1% -525,278 -123% 21% 3% 0% -6% 59% 39% 0% 22% 1%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 5% 0% 4% -11% 55% 39% 4% 2% 0%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% -9% 56% 38% 4% 1% 1%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4% 3% -7% 59% 34% 5% 1%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 9% 3% 0% 1% 0% 54% 39% 54% 1%	14,021,472 55% 0% 38% 4% 1% -759,051 -120% 11% 6% 0% 2% 1% 41% 44% 2% 1%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 5% 0% 3% 0% 49% 43% 6% 2% 1%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 1% 41% 44% 22% 11%	15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 13% 0% 5% -4% 56% 38% 4% 2% 1%
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⁺ Balancing Energy: Load(MW) purchased at Real Time LBMP.

Notes: Percent totals may not equal 100% due to rounding.

Virtual Transactions are not reflected in this chart.

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

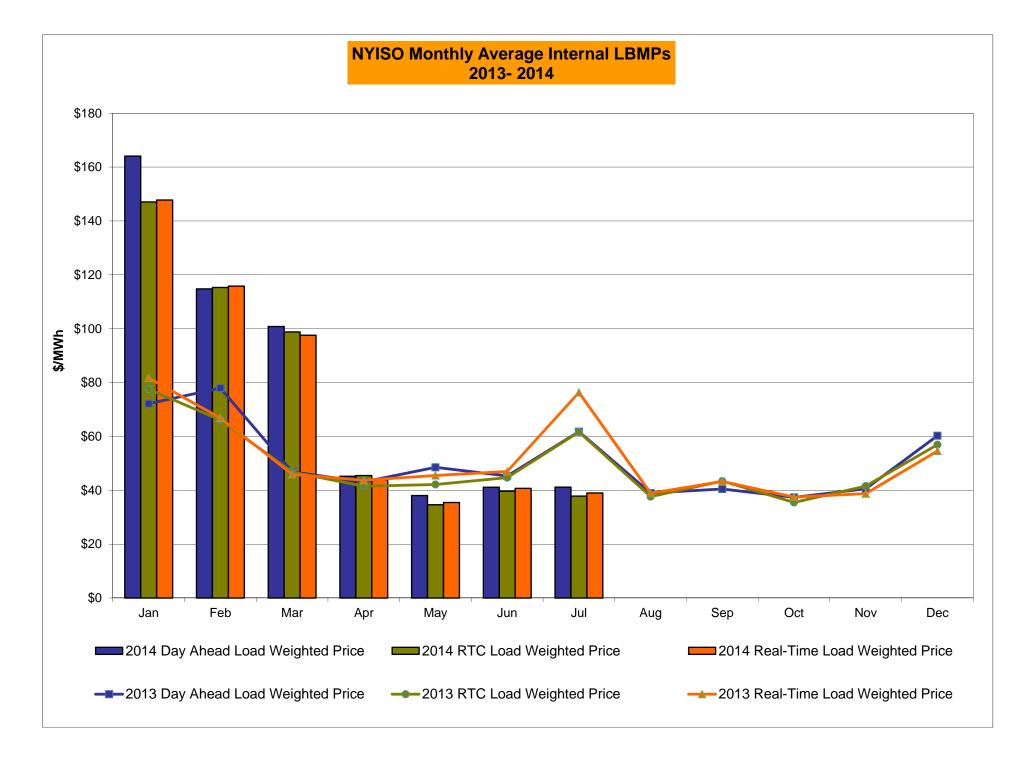
NYISO Markets 2014 Energy Statistics

	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August September	October November December
DAY AHEAD LBMP				 _			 -		
Price *	\$155.11	\$110.69	\$97.07	\$44.16	\$36.61	\$39.17	\$38.82		
Standard Deviation	\$121.52	\$50.86	\$59.89	\$8.90	\$10.99	\$12.29	\$15.56		
Load Weighted Price **	\$164.06	\$114.77	\$100.81	\$45.19	\$38.05	\$41.14	\$41.18		
RTC LBMP									
Price *	\$138.41	\$110.71	\$94.71	\$44.00	\$33.16	\$37.34	\$35.32		
Standard Deviation	\$125.42	\$72.22	\$97.72	\$27.44	\$17.51	\$25.39	\$24.90		
Load Weighted Price **	\$147.06	\$115.31	\$98.80	\$45.48	\$34.63	\$39.64	\$37.85		
REAL TIME LBMP									
Price *	\$137.90	\$111.51	\$93.37	\$42.79	\$34.06	\$38.23	\$35.97		
Standard Deviation	\$122.32	\$70.35	\$89.05	\$19.38	\$17.15	\$23.33	\$27.27		
Load Weighted Price **	\$147.77	\$115.80	\$97.58	\$43.97	\$35.46	\$40.71	\$39.00		
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496		

NYISO Markets 2013 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	August S	<u>September</u>	October	November I	December
DAY AHEAD LBMP	-								•			
Price *	\$69.17	\$75.82	\$45.97	\$42.21	\$45.87	\$42.66	\$56.90	\$37.19	\$38.32	\$36.15	\$39.18	\$57.72
Standard Deviation	\$47.21	\$29.98	\$9.40	\$7.84	\$18.77	\$17.98	\$37.12	\$11.85	\$15.21	\$9.15	\$13.56	\$28.61
Load Weighted Price **	\$72.17	\$77.95	\$46.85	\$43.13	\$48.52	\$45.32	\$61.77	\$39.00	\$40.47	\$37.37	\$40.58	\$60.27
RTC LBMP												
Price *	\$73.69	\$64.15	\$45.75	\$40.50	\$39.51	\$42.00	\$55.41	\$35.90	\$39.06	\$34.08	\$39.57	\$54.53
Standard Deviation	\$88.27	\$36.96	\$22.62	\$14.79	\$24.44	\$30.96	\$58.54	\$18.35	\$60.70	\$17.38	\$30.77	\$41.66
Load Weighted Price **	\$77.52	\$66.07	\$46.79	\$41.52	\$42.14	\$44.70	\$61.64	\$37.65	\$43.41	\$35.49	\$41.56	\$56.95
REAL TIME LBMP												
Price *	\$76.47	\$64.87	\$45.01	\$42.74	\$42.32	\$43.93	\$65.57	\$37.03	\$39.02	\$36.02	\$37.28	\$52.49
Standard Deviation	\$83.80	\$38.96	\$16.27	\$15.96	\$26.99	\$34.72	\$89.92	\$20.11	\$36.85	\$19.07	\$25.69	\$34.01
Load Weighted Price **	\$81.71	\$66.83	\$45.94	\$43.73	\$45.50	\$47.00	\$76.32	\$38.92	\$43.28	\$37.47	\$38.75	\$54.60
Average Daily Energy Sendout/Month GWh	453	453	429	398	407	469	561	485	438	407	421	450

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

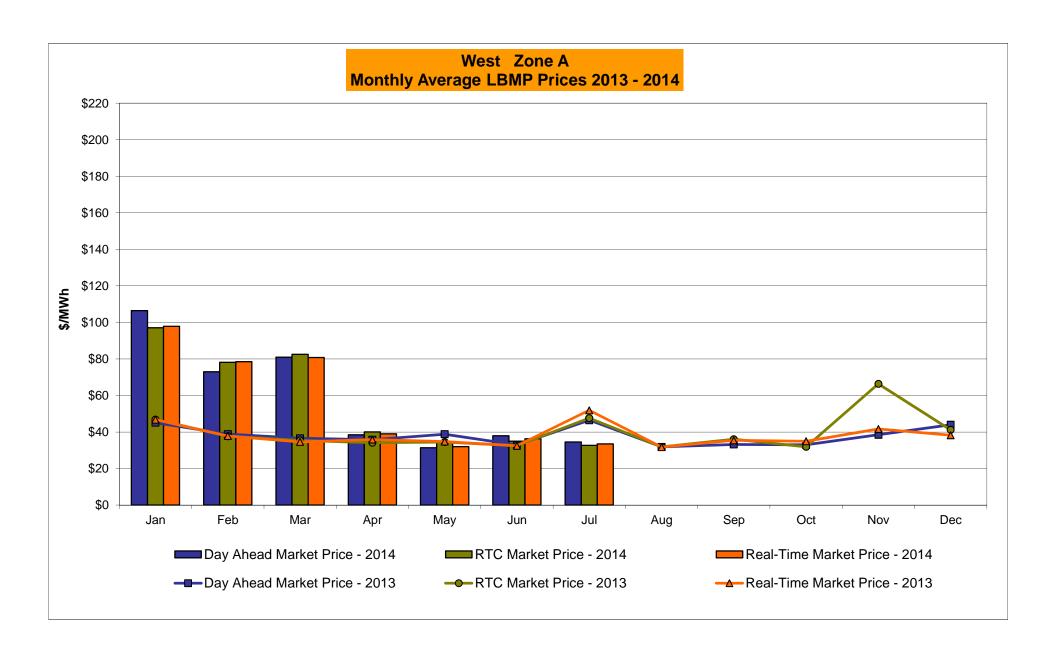


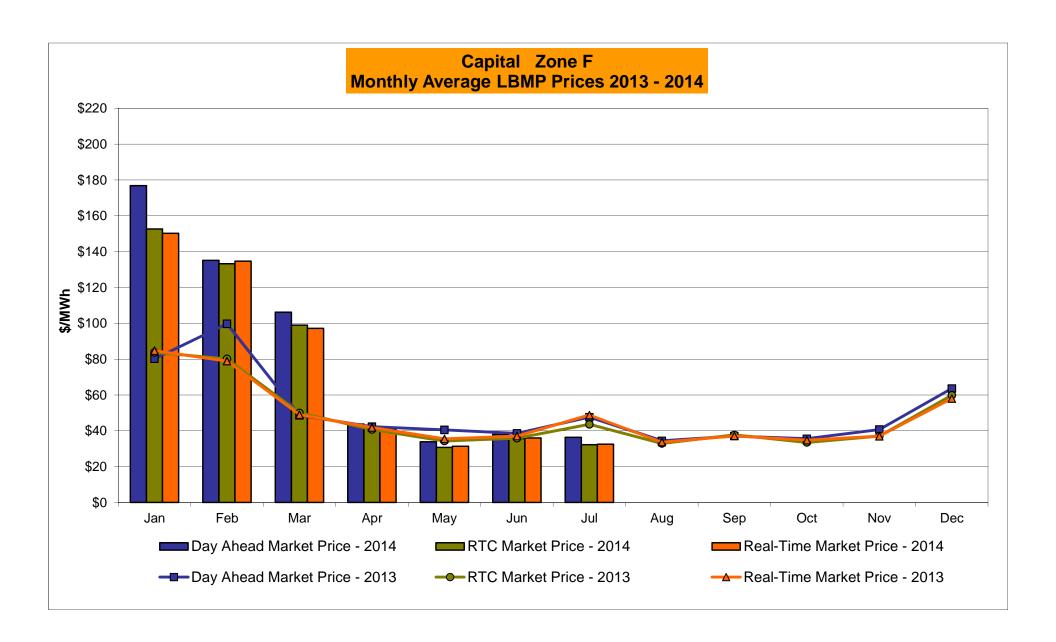
July 2014 Zonal LBMP Statistics for NYISO (\$/MWh)

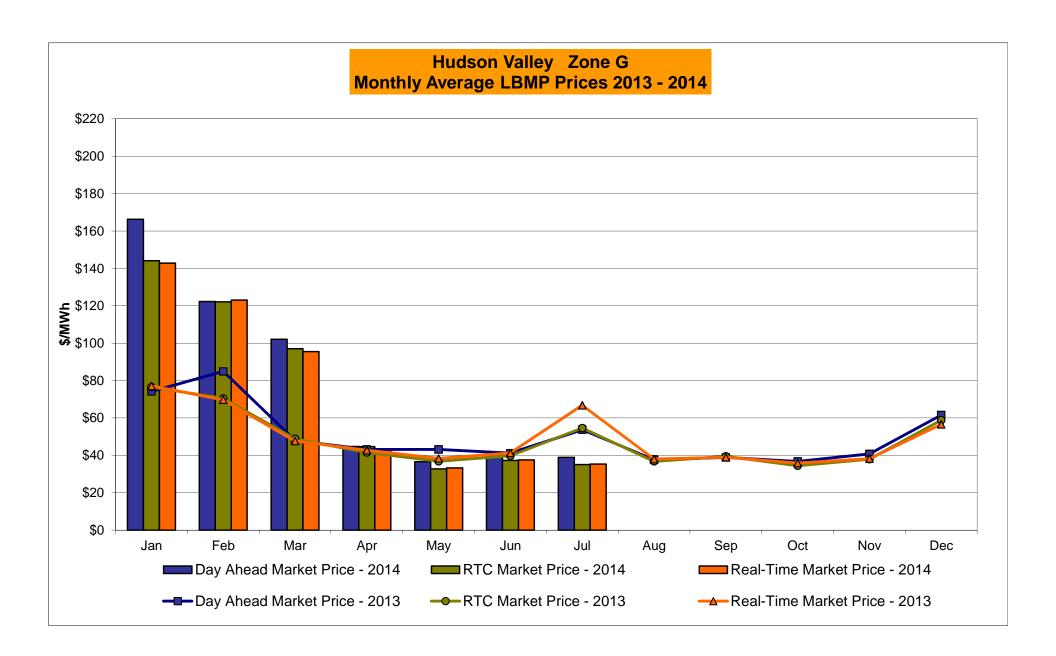
	WEST Zone A	GENESEE Zone B	NORTH Zone D	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE Zone I	NEW YORK CITY Zone J	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	34.49	33.24	32.09	34.52	35.00	36.39	38.95	39.31	39.26	39.79	46.55
Standard Deviation	14.29	10.16	9.81	11.25	11.33	12.52	15.32	16.07	16.04	16.19	24.54
RTC LBMP											
Unweighted Price *	32.70	30.04	29.28	31.33	31.60	32.30	35.07	35.43	35.38	35.70	43.78
Standard Deviation	35.35	18.65	18.43	21.15	20.17	20.44	23.20	23.84	23.82	23.75	45.68
REAL TIME LBMP											
Unweighted Price *	33.45	30.25	29.51	31.58	31.84	32.52	35.36	35.73	35.68	36.16	45.34
Standard Deviation	42.52	19.54	19.42	23.16	21.47	21.62	24.83	25.59	25.57	25.45	50.91
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	РЈМ	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		QUEBEC	QUEBEC	РЈМ	ENGLAND	SOUND		NEPTUNE Controllable	LINDEN VFT	HUDSON Controllable	Dennison Controllable
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND CABLE	NORWALK	_			
DAY AHEAD LBMP	IESO Zone O	QUEBEC (Wheel)	QUEBEC (Import/Export)	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	Zone O 32.17	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export) Zone M 32.61	Zone P 36.84	ENGLAND Zone N 37.54	SOUND CABLE Controllable Line 45.93	NORWALK Controllable Line 41.41	Controllable Line 45.14	Controllable Line 38.70	Controllable Line 39.44	Controllable Line 31.81
	IESO Zone O	QUEBEC (Wheel)	QUEBEC (Import/Export)	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price * Standard Deviation RTC LBMP	Zone O 32.17 9.10	QUEBEC (Wheel) Zone M 32.61 10.18	QUEBEC (Import/Export) Zone M 32.61 10.18	Zone P 36.84 14.18	Zone N 37.54 13.94	SOUND CABLE Controllable Line 45.93 24.52	NORWALK Controllable Line 41.41 15.76	Controllable Line 45.14 24.13	Controllable Line 38.70 14.19	Controllable Line 39.44 16.06	Controllable Line 31.81 9.59
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price *	32.17 9.10	QUEBEC (Wheel) Zone M 32.61 10.18 26.86	QUEBEC (Import/Export) Zone M 32.61 10.18	Zone P 36.84 14.18	Zone N 37.54 13.94	SOUND CABLE Controllable Line 45.93 24.52	NORWALK Controllable Line 41.41 15.76	24.13 43.68	38.70 14.19	39.44 16.06	27.22
Unweighted Price * Standard Deviation RTC LBMP	Zone O 32.17 9.10	QUEBEC (Wheel) Zone M 32.61 10.18	QUEBEC (Import/Export) Zone M 32.61 10.18	Zone P 36.84 14.18	Zone N 37.54 13.94	SOUND CABLE Controllable Line 45.93 24.52	NORWALK Controllable Line 41.41 15.76	Controllable Line 45.14 24.13	Controllable Line 38.70 14.19	Controllable Line 39.44 16.06	Controllable Line 31.81 9.59
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation REAL TIME LBMP	32.17 9.10 27.06 10.03	QUEBEC (Wheel) Zone M 32.61 10.18 26.86 11.33	QUEBEC (Import/Export) Zone M 32.61 10.18 26.86 11.33	36.84 14.18 31.26 13.46	20ne N 37.54 13.94 31.48 13.27	SOUND CABLE Controllable Line 45.93 24.52 43.96 56.97	NORWALK Controllable Line 41.41 15.76 43.35 56.74	45.14 24.13 43.68 56.93	38.70 14.19 32.67 13.77	39.44 16.06 33.49 16.04	27.22 10.33
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	32.17 9.10	QUEBEC (Wheel) Zone M 32.61 10.18 26.86	QUEBEC (Import/Export) Zone M 32.61 10.18	Zone P 36.84 14.18	Zone N 37.54 13.94	SOUND CABLE Controllable Line 45.93 24.52	NORWALK Controllable Line 41.41 15.76	24.13 43.68	38.70 14.19	39.44 16.06	27.22

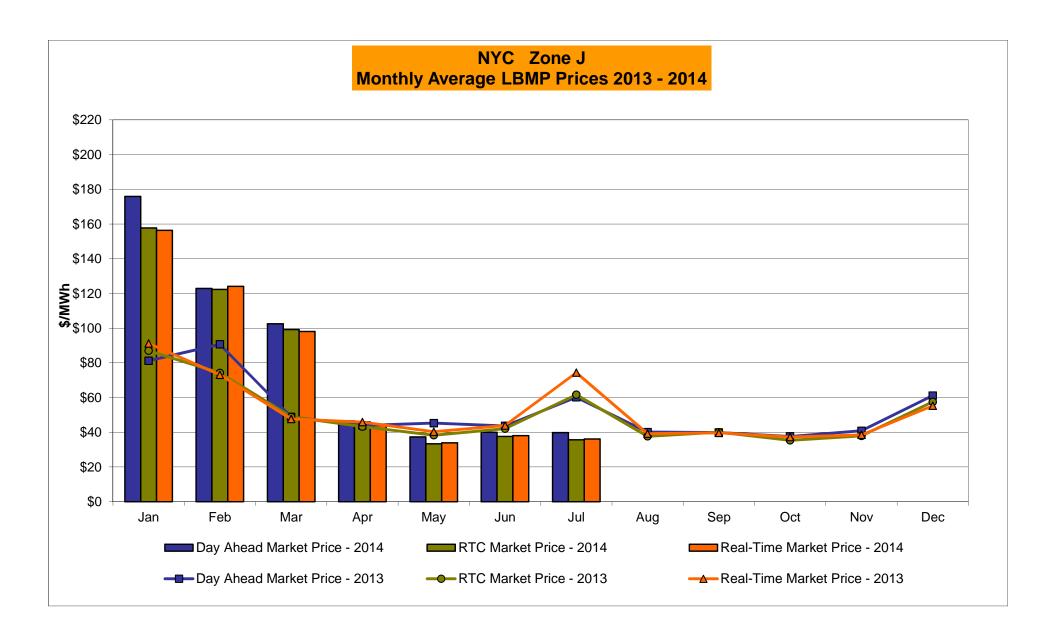
Market Mitigation and Analysis Prepared: 8/5/2014 8:24 AM

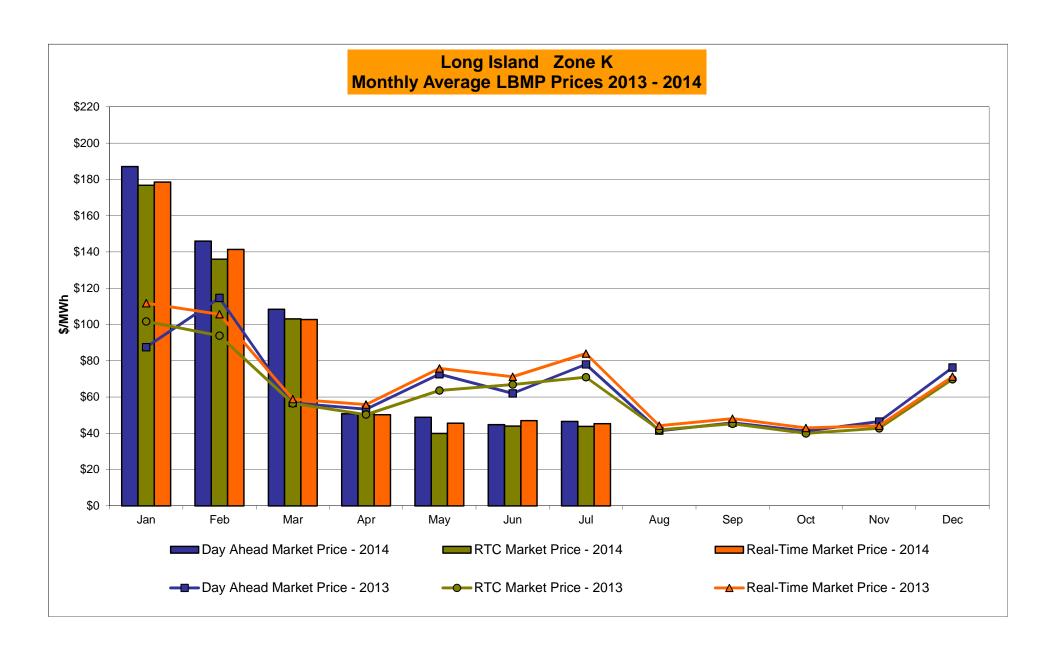
^{*} Straight LBMP averages

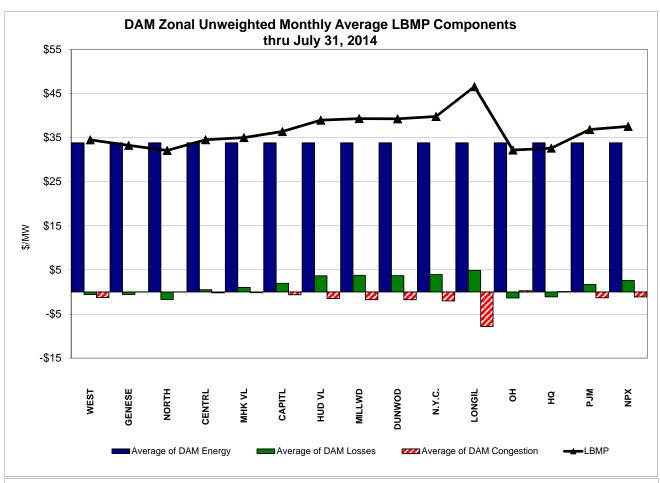


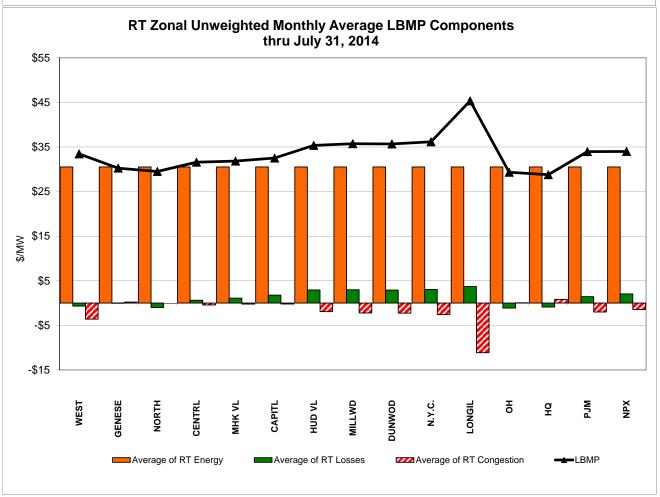




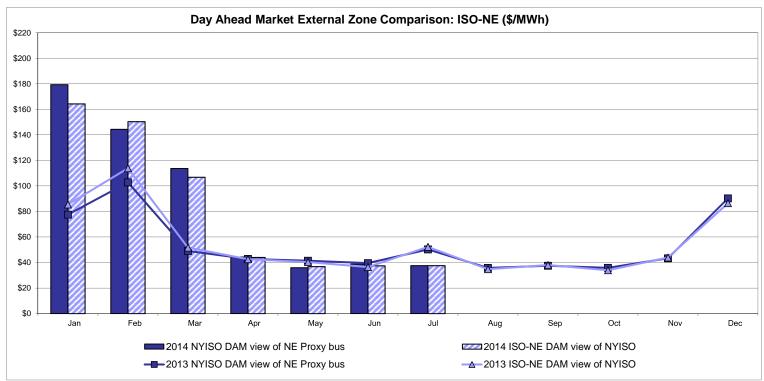


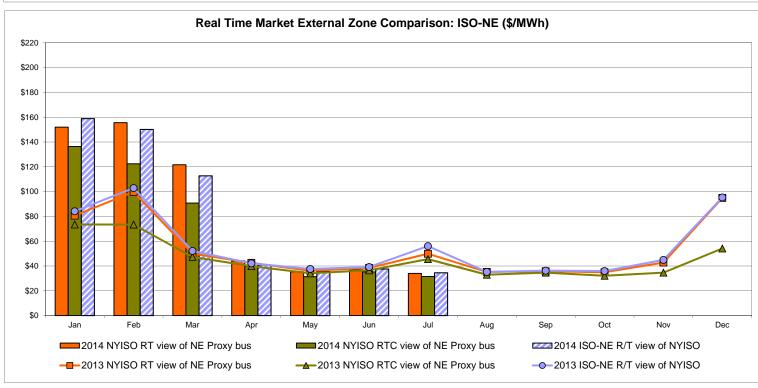




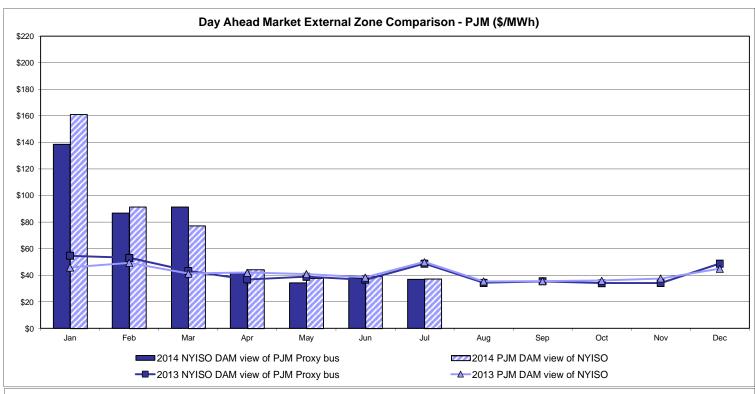


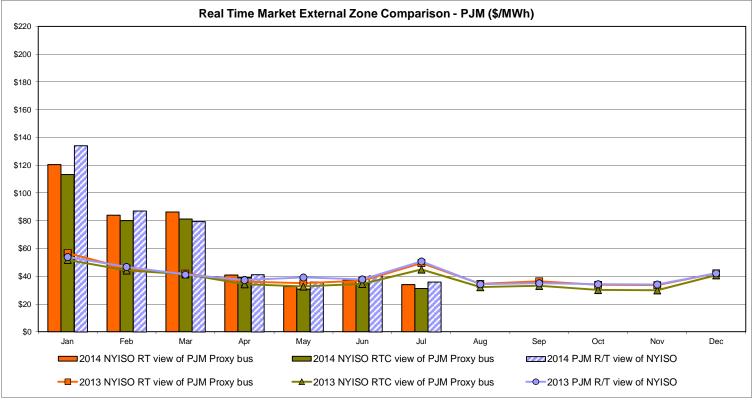
External Comparison ISO-New England



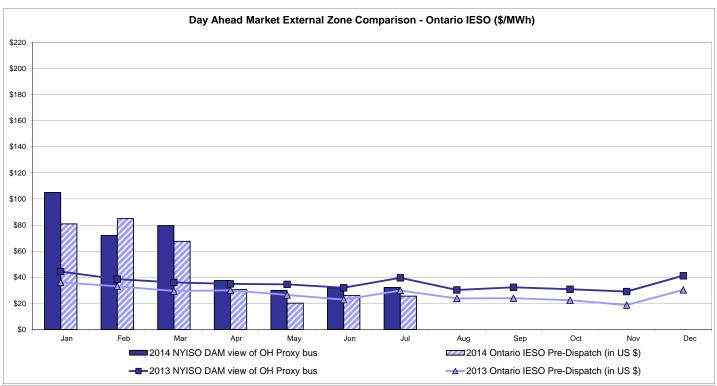


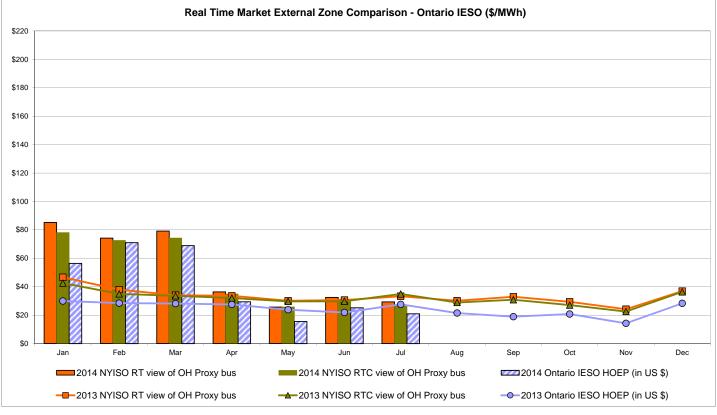
External Comparison PJM





External Comparison Ontario IESO

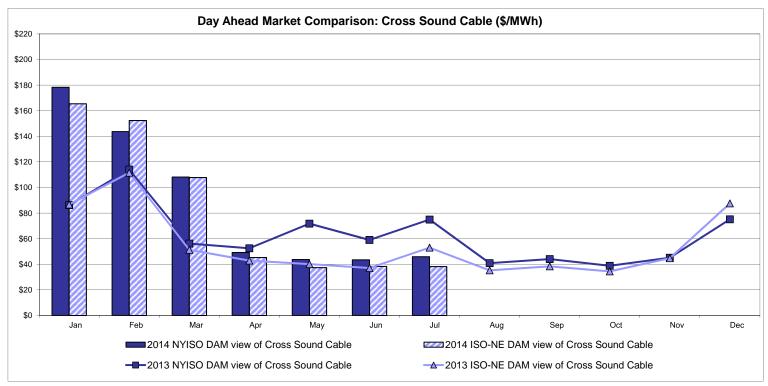


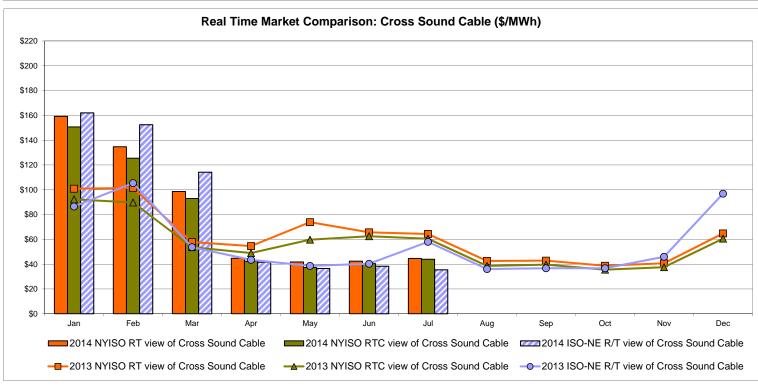


Notes: Exchange factor used for July 2014 was 0.9312 to US \$

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

External Controllable Line: Cross Sound Cable (New England)





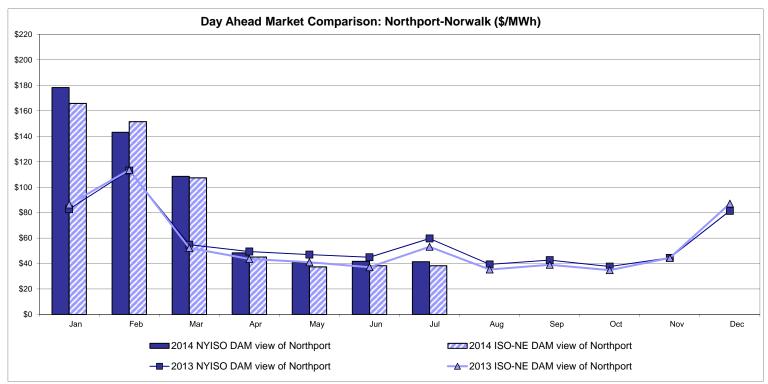
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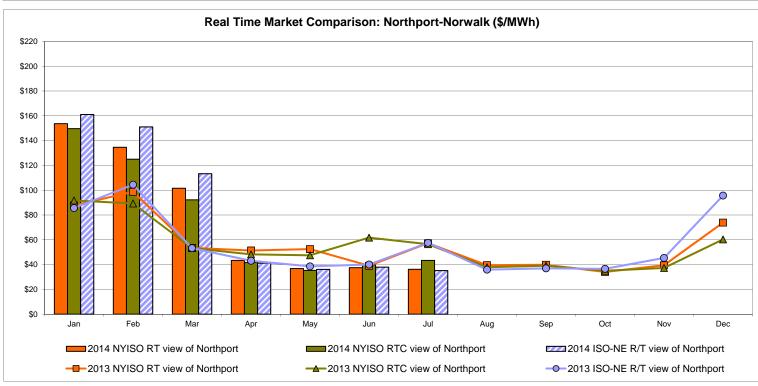
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

External Controllable Line: Northport - Norwalk (New England)





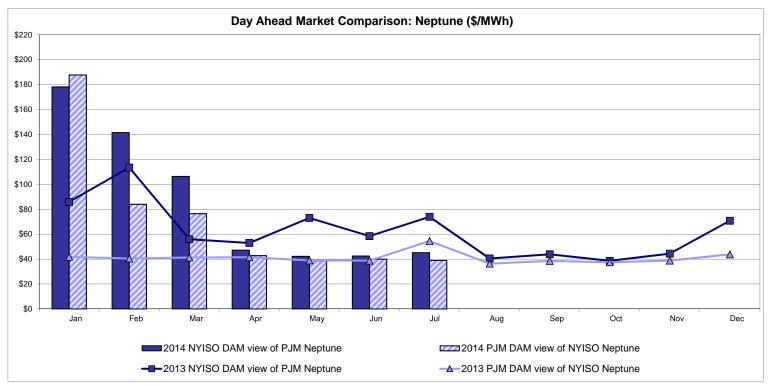
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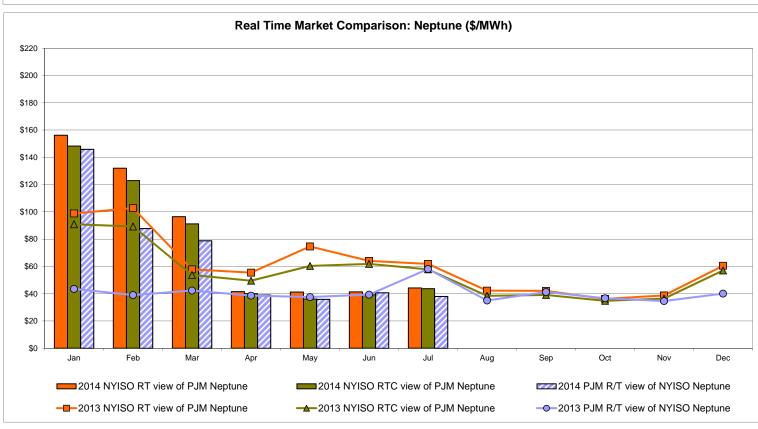
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

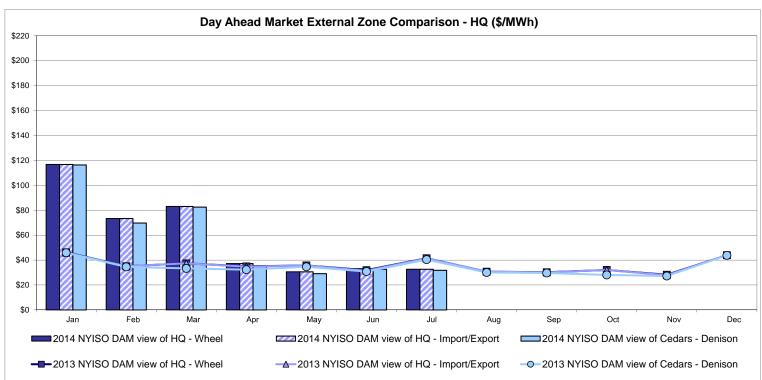
The DAM and R/T prices at the 1385 interface are used for NYISO.

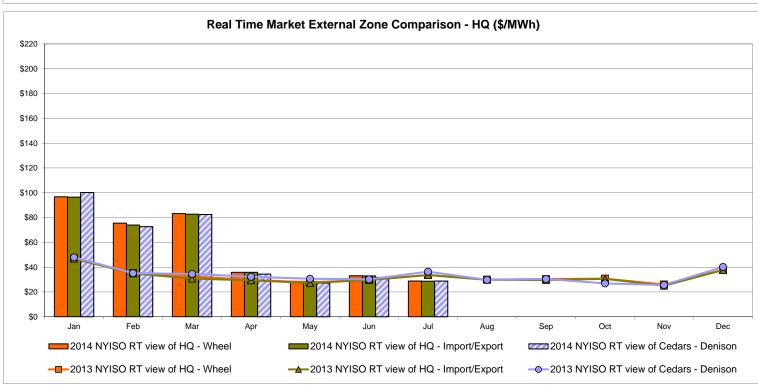
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

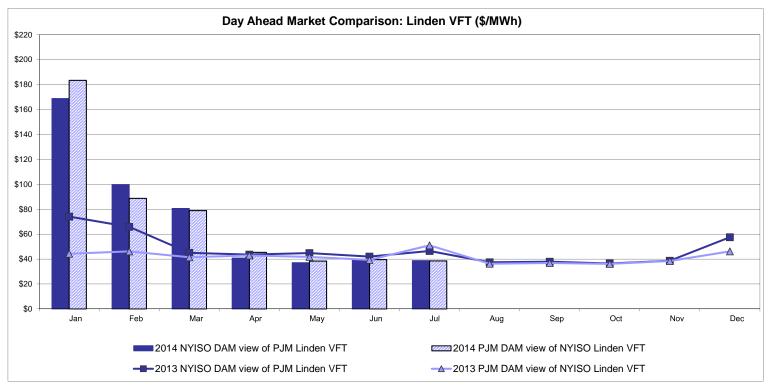


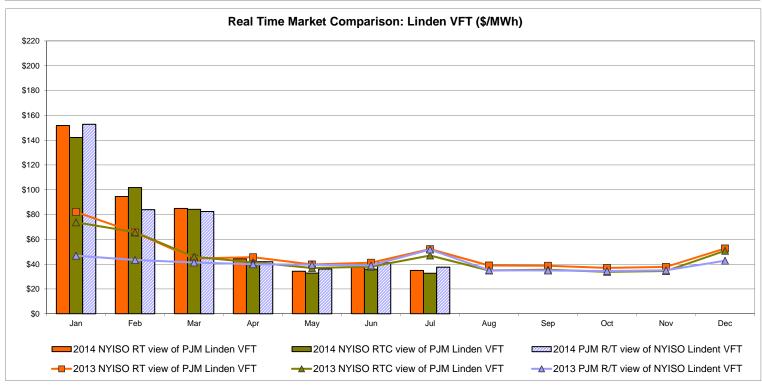


Note:

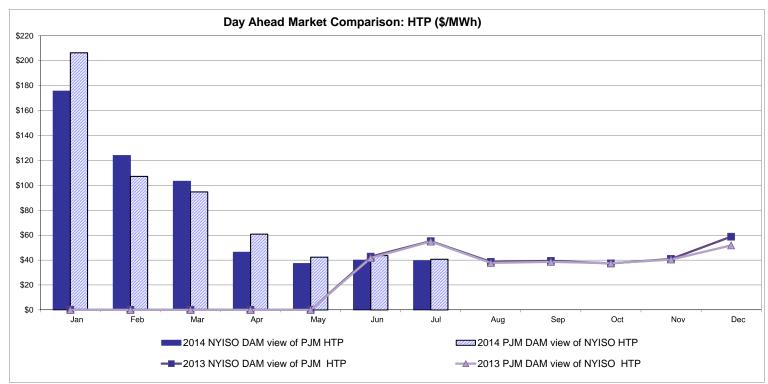
Hydro-Quebec Prices are unavailable.

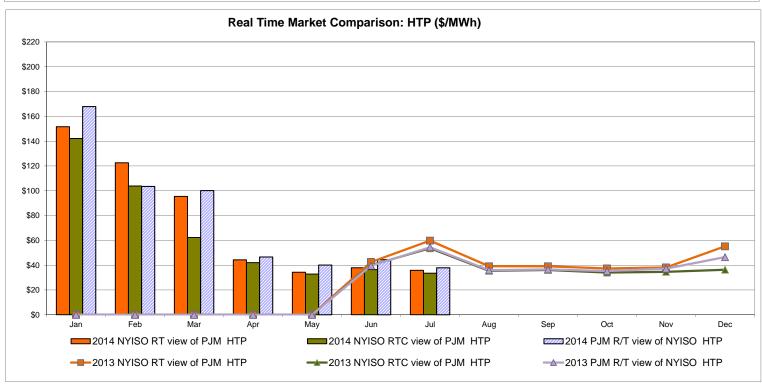
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)



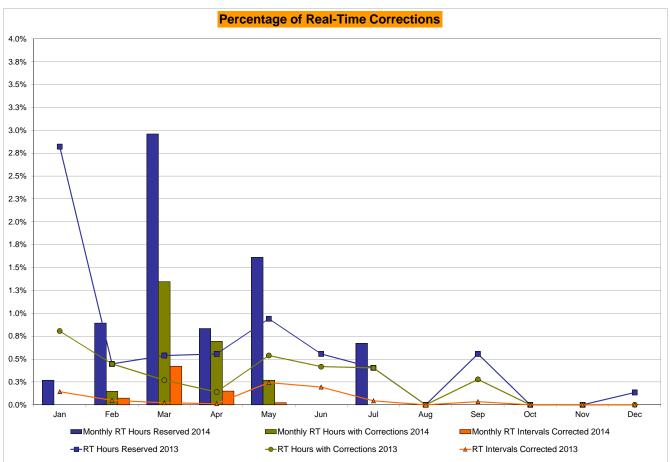


NYISO Real Time Price Correction Statistics

THE THE PART OF TH	<u></u>					
<u>2014</u> <u>January February March April May June July Αι</u> Hour Corrections	<u>August</u>	Septemb	oer (<u>October</u>	November	<u>December</u>
Number of hours with corrections in the month 0 1 10 5 2 0 0						
Number of hours in the month 744 672 743 720 744 720 744						
% of hours with corrections in the month 0.00% 0.15% 1.35% 0.69% 0.27% 0.00% 0.00%						
% of hours with corrections year-to-date 0.00% 0.07% 0.51% 0.56% 0.50% 0.41% 0.35%						
Interval Corrections						
Number of intervals corrected in the month 0 6 38 13 2 0 0						
Number of intervals corrected in the month 9.232 8.205 9.023 8.720 9.030 8.729 8.999						
% of intervals corrected in the month 0.00% 0.07% 0.42% 0.15% 0.02% 0.00% 0.00%						
% of intervals corrected year-to-date 0.00% 0.03% 0.17% 0.16% 0.13% 0.11% 0.10%						
Hours Reserved						
Number of hours reserved in the month 2 6 22 6 12 0 5						
Number of hours in the month 744 672 743 720 744 720 744						
% of hours reserved in the month 0.27% 0.89% 2.96% 0.83% 1.61% 0.00% 0.67%						
% of hours reserved year-to-date 0.27% 0.56% 1.39% 1.25% 1.32% 1.11% 1.04%						
Days to Correction *						
Avg. number of days to correction in the month 0.00 3.00 1.00 1.00 0.00 0.00 0.00						
Avg. number of days to correction year-to-date 0.00 3.00 1.50 1.33 1.00 1.00 1.00						
Days Without Corrections						
Days Without Corrections Days without corrections in the month 31 27 28 28 29 30 31						
Days without corrections in the month 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204	August	Septemb	oer (<u>October</u>	November	<u>December</u>
Days without corrections in the month 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204	<u>August</u>	Septemb	<u>oer</u> (<u>October</u>	November	<u>December</u>
Days without corrections in the month 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204 2013 January February March April May June July Au	<u>August</u> 0	<u> </u>	<u>ber</u> (<u>October</u> 0	November 0	<u>December</u>
Days without corrections in the month 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204 2013 Hour Corrections In the month 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204 April May June July Au Hour Corrections		<u> </u>	2			
Days without corrections in the month 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204 2013 Hour Corrections Number of hours with corrections in the month 6 3 2 1 4 3 3	0	720	2	0	0	0
Days without corrections in the month Days without corrections 31 bigs without corrections 27 bigs without corrections 28 bigs without corrections 29 bigs without corrections 30 bigs without corrections 31 bigs without corrections 31 bigs without corrections 40 bigs with co	0 744	720 % 0.2	2 0	0 744	0 721	0 744
Days without corrections in the month Days without corrections 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204 2013	0 744 0.00%	720 % 0.2	2 0 28%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Days without corrections in the month Days without corrections 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204 2013 January February March April May June July At July <t< td=""><td>0 744 0.00%</td><td>720 720 % 0.2 % 0.3</td><td>2 0 28%</td><td>0 744 0.00%</td><td>0 721 0.00%</td><td>0 744 0.00%</td></t<>	0 744 0.00%	720 720 % 0.2 % 0.3	2 0 28%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Days without corrections in the month Days without corrections 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204 2013 January February March April May June July At July Hour Corrections In the month 6 3 2 1 4 3 3 Number of hours in the month 744 672 743 720 744 720 744 % of hours with corrections in the month 0.81% 0.45% 0.27% 0.14% 0.54% 0.42% 0.44% 0.43% Interval Corrections Line of intervals corrected in the month 13 4 2 1 22 17 4	0 744 0.00% 0.38%	720 720 % 0.2 % 0.3	2 0 28% 37%	0 744 0.00% 0.33%	0 721 0.00% 0.30%	0 744 0.00% 0.27%
Days without corrections in the month Days without corrections 31 27 28 28 29 30 31 Days without corrections year-to-date 31 58 86 114 143 173 204 2013 January February March April May June July At July Hour Corrections In the month 6 3 2 1 4 3 3 Number of hours in the month 744 672 743 720 744 720 744 % of hours with corrections in the month 0.81% 0.45% 0.27% 0.14% 0.54% 0.42% 0.44% 0.43% Interval Corrections Line of intervals corrected in the month 13 4 2 1 22 17 4	0 744 0.00% 0.38%	720 720 % 0.2 % 0.3	2 0 28% 37%	0 744 0.00% 0.33%	0 721 0.00% 0.30%	0 744 0.00% 0.27%
Days without corrections in the month Days without corrections in the month year-to-date 31 27 28 28 29 30 31 2013 January February March April May June July At July	0 744 0.00% 0.38% 0 9,002	720 % 0.2 % 0.3 % 0.3 8,760 % 0.0	2 0 28% 37% 3	0 744 0.00% 0.33% 0 9,041	0 721 0.00% 0.30% 0 8,854	0 744 0.00% 0.27% 0 9,073
Days without corrections in the month 31 27 28 28 29 30 31 204	0 744 0.00% 0.38% 0 9,002 0.00%	720 % 0.2 % 0.3 % 0.3 8,760 % 0.0	2 0 28% 37% 3 0	0 744 0.00% 0.33% 0 9,041 0.00%	0 721 0.00% 0.30% 0 8,854 0.00%	0 744 0.00% 0.27% 0 9,073 0.00%
Days without corrections In the month 31 27 28 28 29 30 31 204	0 744 0.00% 0.38% 0 9,002 0.00%	720 % 0.2 % 0.3 % 0.3 8,760 % 0.0	2 0 28% 37% 3 0	0 744 0.00% 0.33% 0 9,041 0.00%	0 721 0.00% 0.30% 0 8,854 0.00%	0 744 0.00% 0.27% 0 9,073 0.00%
Days without corrections In the month 31 27 28 28 29 30 31	0 744 0.00% 0.38% 0 9,002 0.00% 0.09%	720 % 0.2 % 0.3 % 0.3 8,760 % 0.0	2 0 228% 37% 3 0 0 03%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06%
Days without corrections in the month 31 27 28 28 29 30 31 204	0 744 0.00% 0.38% 0 9,002 0.00% 0.09%	720 % 0.2 % 0.3 % 0.3 8,760 % 0.0 % 0.0	2 0 228% 37% 3 0 0 03%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06%
Days without corrections In the month 31 27 28 28 29 30 31	0 744 0.00% 0.38% 0 9,002 0.00% 0.09%	720 % 0.2 % 0.3 8,760 % 0.0 % 0.0 720 % 0.5	2 0 228% 37% 3 0 03% 08%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06%
Days without corrections In the month 31 27 28 28 29 30 31	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00%	720 % 0.2 % 0.3 8,760 % 0.0 % 0.0 720 % 0.5	2 0 28% 37% 3 0 03% 08% 4 0	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13%
Days without corrections in the month 31 27 28 28 29 30 31 204	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00%	720 % 0.2 % 0.3 8,760 % 0.0 % 0.0 720 % 0.5	2 0 28% 37% 3 0 0 03% 08% 4 0 56%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13%
Days without corrections In the month 31 27 28 28 29 30 31 31 32 32 32 34 34 34 34 34	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00% 0.79%	720 % 0.2 % 0.3 8,760 % 0.0 720 % 0.5	2 0 28% 37% 3 0 033% 088% 4 0 566% 76%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00% 0.69%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00% 0.62%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13% 0.58%
Days without corrections In the month Days without corrections Days with correction Days with co	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00% 0.79%	720 % 0.2 % 0.3 8,760 % 0.0 % 0.0 720 % 0.5 % 0.7	2 0 28% 37% 3 0 033% 088% 4 0 566% 76%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00% 0.69%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00% 0.62%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13% 0.58%
Days without corrections In the month Days without corrections Days with corrections Days wi	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00% 0.79%	720 % 0.2 % 0.3 8,760 % 0.0 % 0.0 720 % 0.5 % 0.7	2 0 28% 37% 3 0 03% 08% 4 0 56% 76%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00% 0.69%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00% 0.62%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13% 0.58%

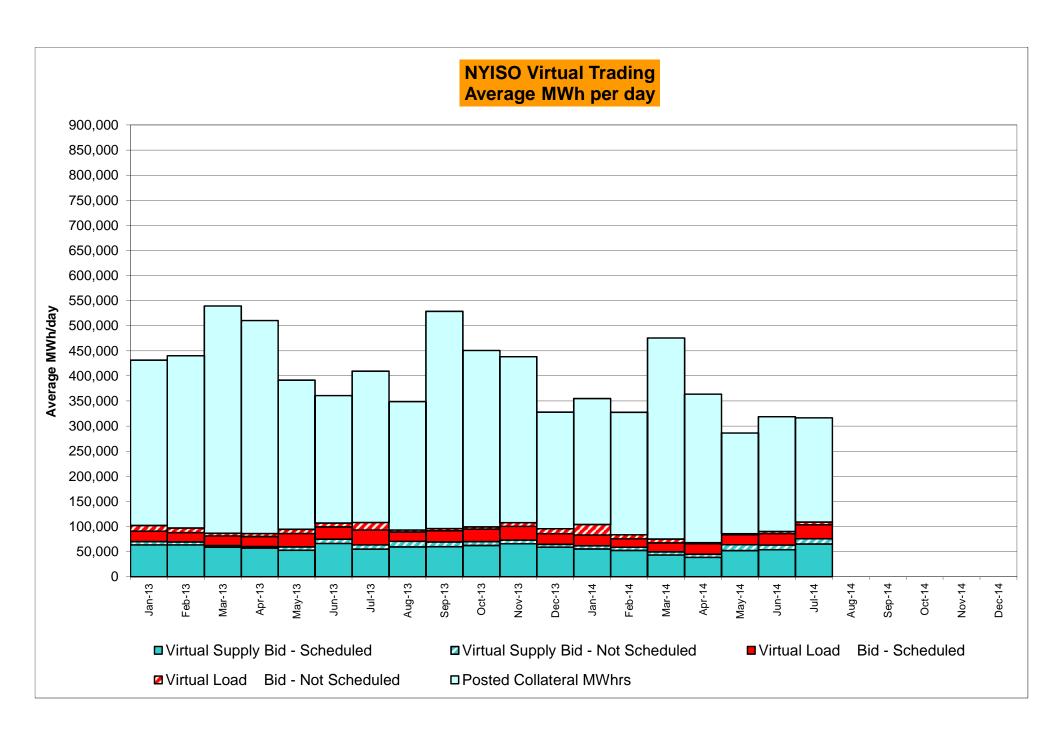
^{*} Calendar days from reservation date.

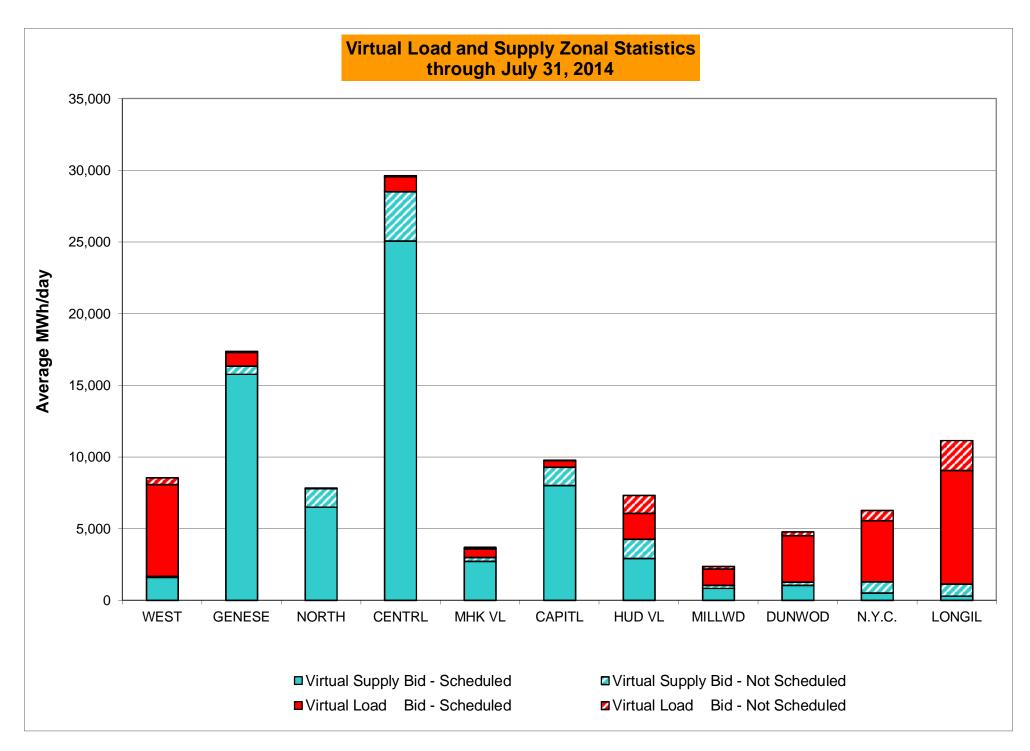
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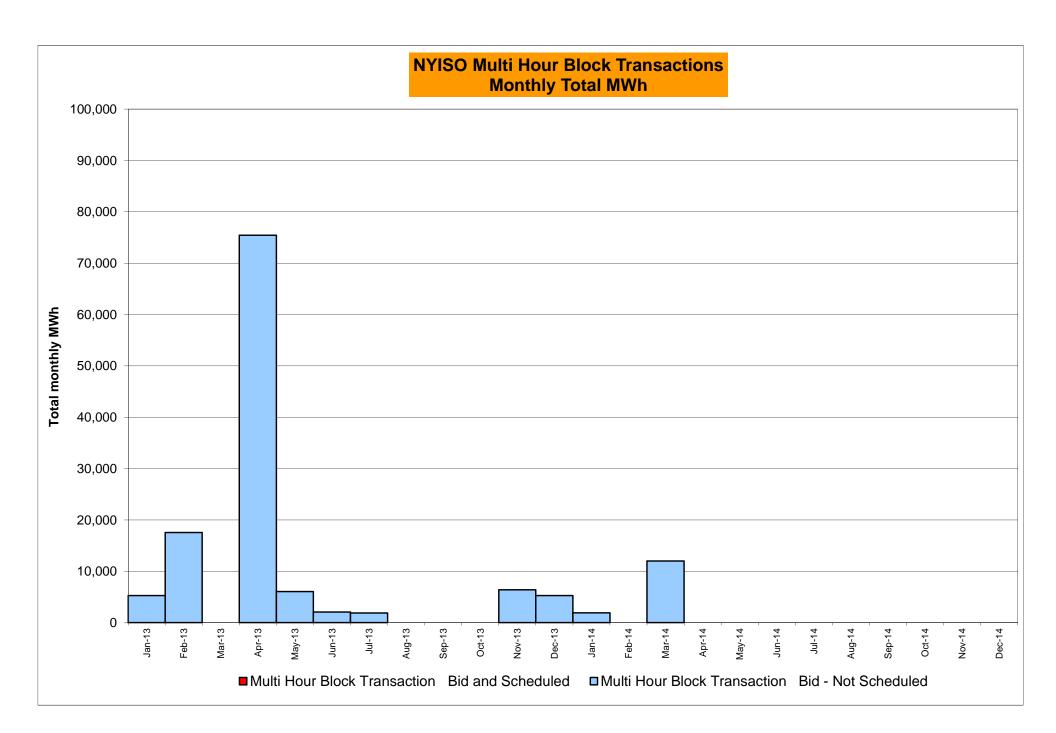


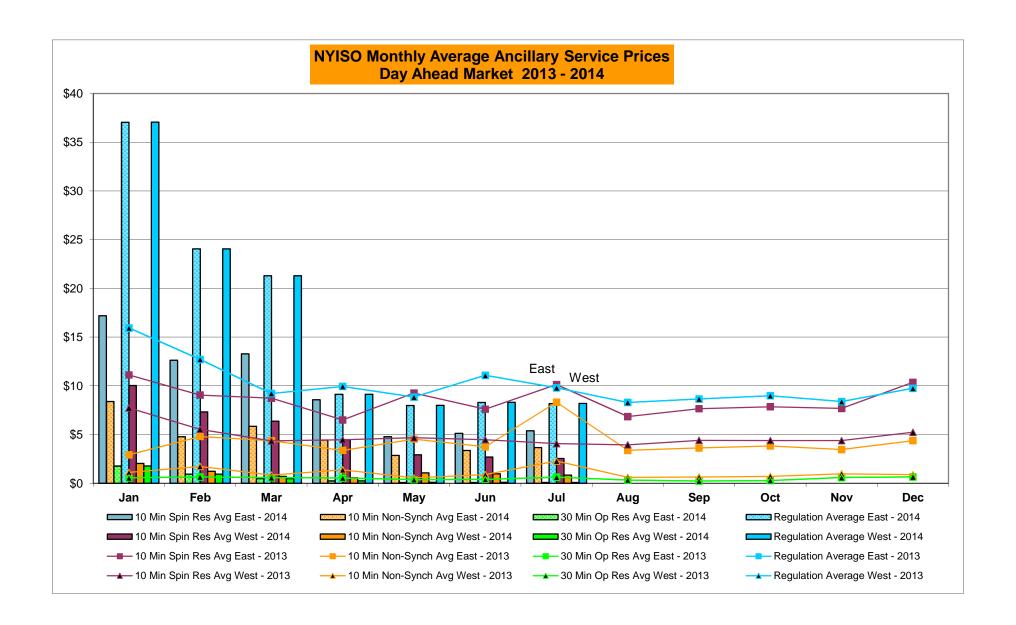
^{*} Calendar days from reservation date.

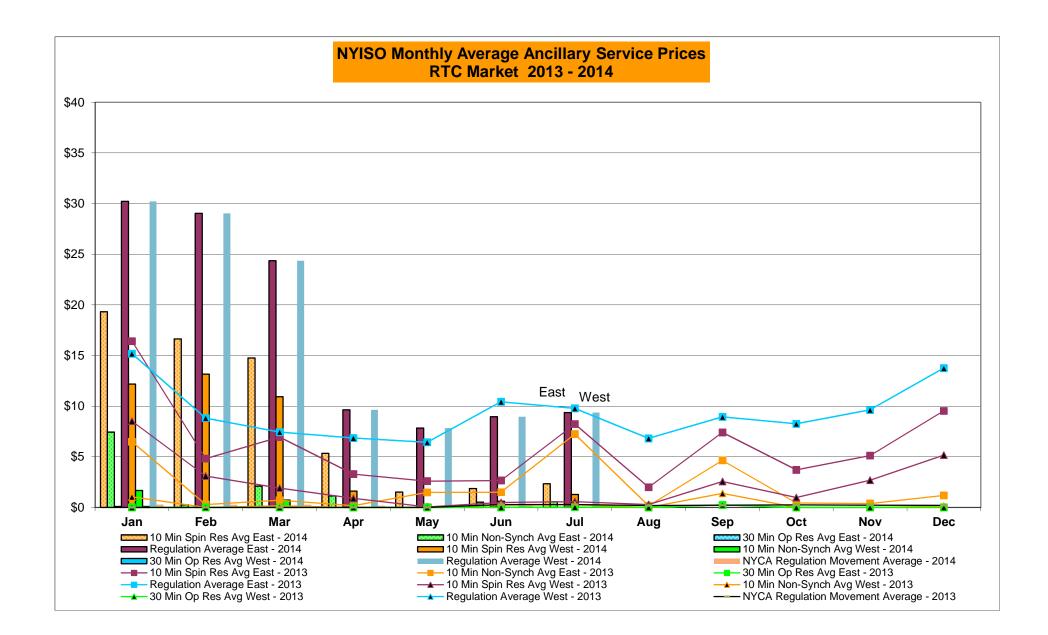


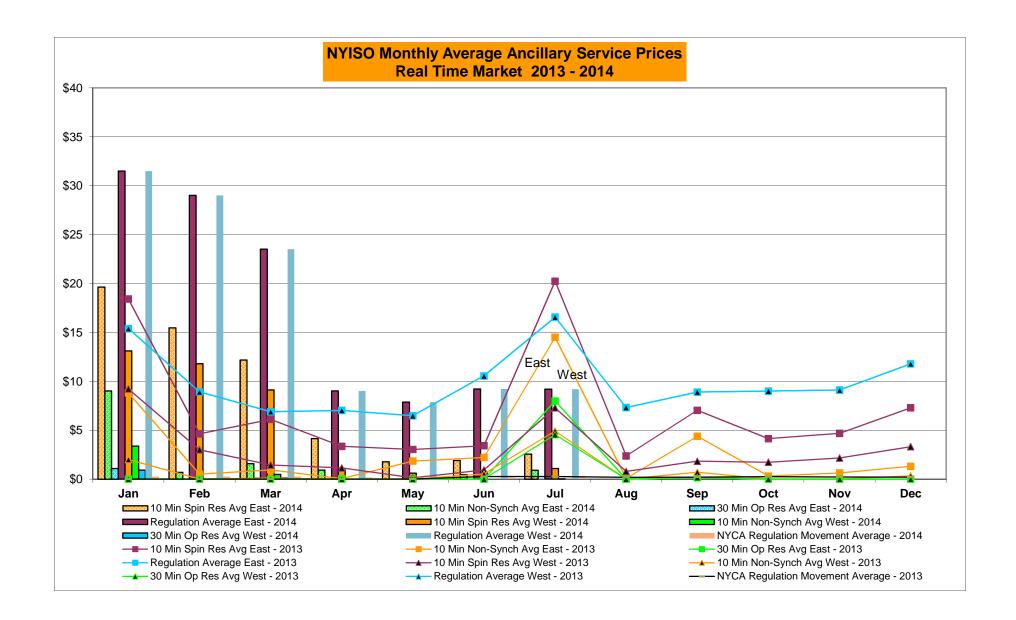


					Virtual L	oad and	Supp	oly Zonal	Statistic	s (Avera	ge MWh/	day) - 2014	4				
		Virtual L	oad Bid Not	Virtual S	upply Bid			Virtual L	oad Bid	Virtual Su	upply Bid			Virtual I	_oad Bid	Virtual Su	pply Bid Not
Zone	Date	Scheduled		Scheduled	Scheduled	Zone	Date	Scheduled		Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-14	6,213	5,063	2,777	155	MHK VL	Jan-14		587	1,316	260	DUNWOD		354	631	2,182	268
***	Feb-14	5,077	805		422	IVII IIX V L	Feb-14		204	824	90	Боимов	Feb-14	577		846	176
	Mar-14	4,982	601	2,874	159		Mar-14		527	826			Mar-14	481	473		146
	Apr-14		451	1,880	130		Apr-14		44	1,685	136		Apr-14	211	17	2,493	87
	May-14	7,071	353	952	158		May-14		7	2,372			May-14	930		580	67
	Jun-14	7,711	1,645	1,701	277		Jun-14		115	2,090	195		Jun-14	1,814	96	966	25
	Jul-14	6,396	470	1,608	78		Jul-14	610	99	2,733	256		Jul-14	3,228	249	1,043	243
	Aug-14			·			Aug-14						Aug-14				
	Sep-14						Sep-14						Sep-14				
	Oct-14						Oct-14						Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				
GENESE	Jan-14	434	279	5,230	425	CAPITL	Jan-14	1,439	1,278	3,985	379	N.Y.C.	Jan-14	2,627	3,843	666	1,083
CLINESE	Feb-14	473	107	5,250	487	CALIIL	Feb-14	,	871	4,100	127	14.1.0.	Feb-14	2,470	1,392	521	625
	Mar-14	1,164	176		88		Mar-14		939	4,623	129		Mar-14	3,075	,	152	1,172
	Apr-14	551	13		173		Apr-14		107	4,476			Apr-14	3,335		152	2,900
	May-14	134	18		798		May-14		17	5,367	337		May-14	2,276		205	4,679
	Jun-14	211	2		405		Jun-14		93	5,631	333		Jun-14	2,741	390	121	3,613
	Jul-14	979	78		549		Jul-14		31	8,007	1,290		Jul-14	4,273	712		780
	Aug-14		_	-, -			Aug-14			-,	,		Aug-14	,			
	Sep-14						Sep-14						Sep-14				
	Oct-14						Oct-14						Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				
NORTH	lon 1.1	47	400	0.570	4.500	HUD VL	lon 11	4.040	4 554	4 004	400	LONGIL	lan 11	7.005	0.704	50	275
NUKIH	Jan-14 Feb-14	110	168 4	6,579 5,732	1,592 1,308	HOD VL	Jan-14 Feb-14		1,554 1,325	4,091 3,963	466 792	LONGIL	Jan-14 Feb-14	7,605 5,365	6,704 2,494	59 145	375
	Mar-14	121	10		895		Mar-14		1,130	3,644	1,081		Mar-14	5,083	1,885	166	230 223
	Apr-14	67	4		1,007		Apr-14		725	4,889	918		Apr-14	7,434	579	100	18
	May-14	89	1		955		May-14		358	4,009	760		May-14	6,303	1,452	83	151
	Jun-14	17	0		1,222		Jun-14		964	3,669	640		Jun-14	6,607	1,452	97	77
	Jul-14	42	1		1,278		Jul-14		1.243	2.924	1,328		Jul-14	7,903	2.104	304	854
	Aug-14	72		0,001	1,270		Aug-14	,	1,240	2,524	1,020		Aug-14	7,500	2,104	304	00-
	Sep-14						Sep-14						Sep-14				
	Oct-14						Oct-14						Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				
CENTRL	Jan-14 Feb-14	675 419	392 155		624 1,484	MILLWD	Jan-14 Feb-14		401 183	848 1,015	470 357	NYISO	Jan-14 Feb-14	21,670 16,907	20,900 7,888	55,491 52,604	6,098 6,097
	Mar-14	466	359	16,130	1,822		Mar-14		293	872	262		Mar-14	17,855	7,700	43,485	6,082
	Apr-14	222	13		430		Apr-14		293 54	878			Apr-14	20,848		38,637	6,187
	May-14	743	0		3,035		May-14		32	1,104	392		May-14	19,467	2,295	52,261	11,742
	Jun-14	829	25		2,180		Jun-14	670	66		254		Jun-14	22,606	4,660	53,771	9,221
	Jul-14	1,041	71		3,466		Jul-14		184	840	213		Jul-14	27,900	5,243	65,308	10,336
	Aug-14	1,0 11		20,004	0, 100		Aug-14	,	134	340	2.0		Aug-14	21,000	5,2 10	30,000	10,000
	Sep-14						Sep-14						Sep-14				
	Oct-14						Oct-14						Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				







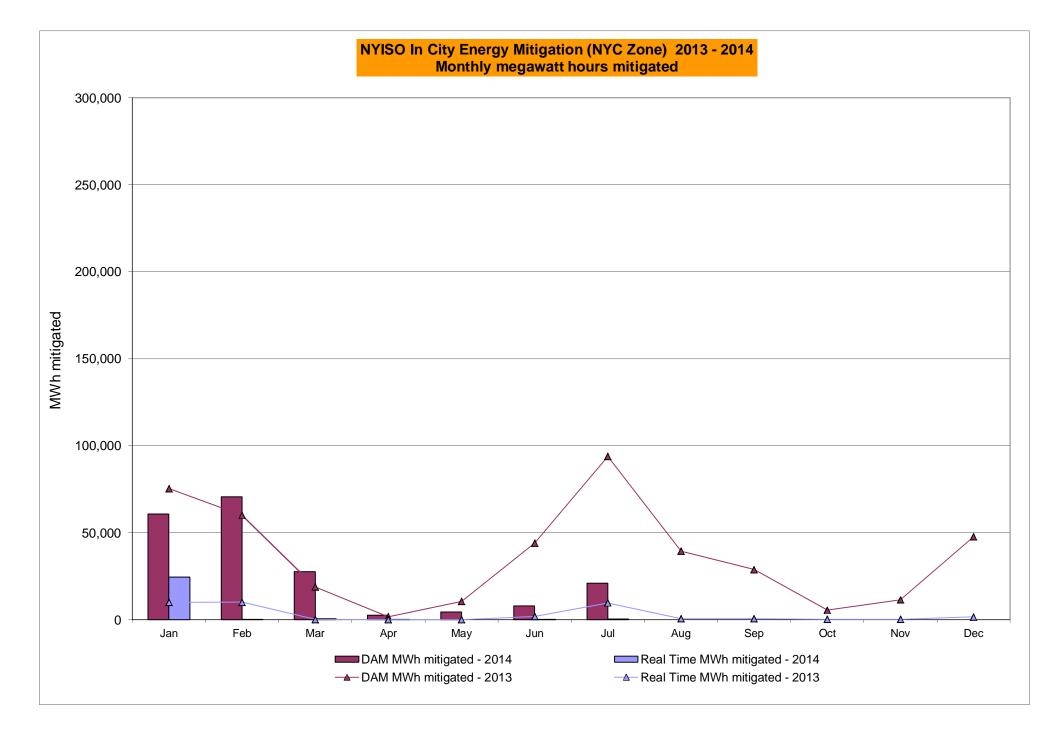


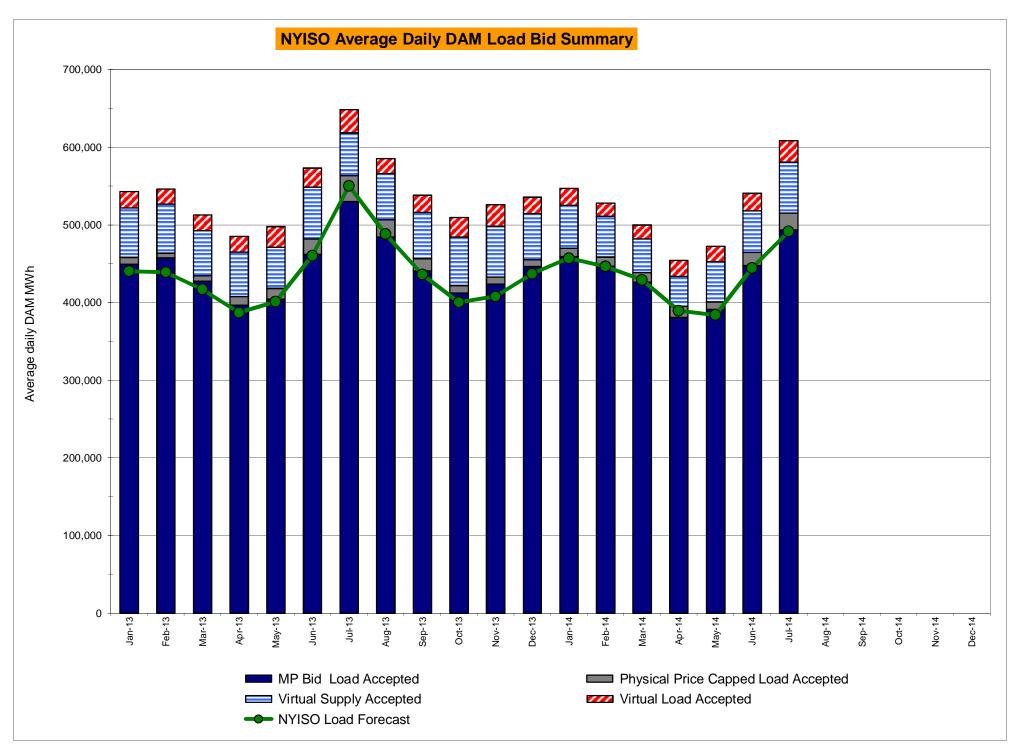
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

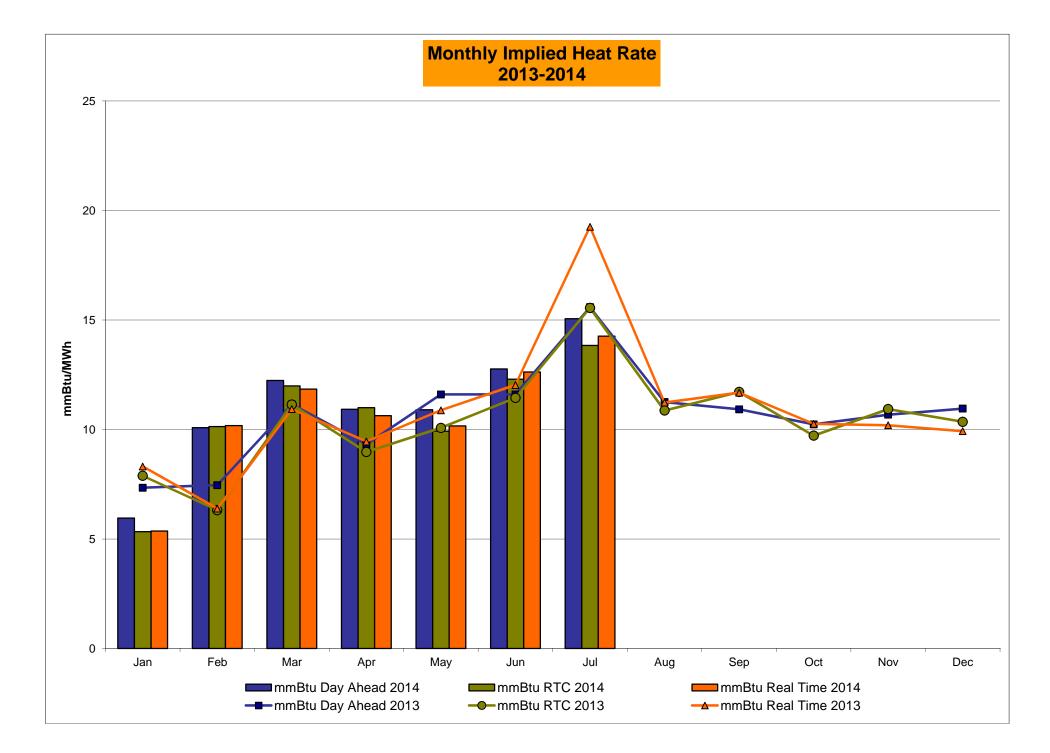
	-			,	Otatiotics	Onweight	,	// IVI V V I I /				
<u>2014</u>	<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market												
10 Min Spin East	17.19	12.62	13.27	8.57	4.77	5.11	5.37					
10 Min Spin West	10.02	7.32	6.36	4.47	2.92	2.69	2.54					
10 Min Non Synch East	8.40	4.78	5.86	4.44	2.86	3.37	3.65					
10 Min Non Synch West	2.02	1.23	0.70	0.55	1.06	0.96	0.83					
30 Min East	1.77	0.93	0.47	0.24	0.09	0.08	0.08					
30 Min West	1.77	0.93	0.47	0.24	0.09	0.08	0.08					
Regulation East	37.05	24.05	21.29	9.12	7.99	8.30	8.18					
Regulation West	37.05	24.05	21.29	9.12	7.99	8.30	8.18					
RTC Market												
10 Min Spin East	40.22	40.04	44.70	E 24	4.50	4.07	2.25					
•	19.32	16.64	14.76	5.34	1.52	1.87	2.35					
10 Min Spin West	12.18	13.16	10.93	1.61	0.33	0.61	1.27					
10 Min Non Synch East	7.43	0.26	2.10	1.14	0.00	0.52	0.55					
10 Min Non Synch West	1.68	0.00	0.72	0.00	0.00	0.00	0.00					
30 Min East	0.08	0.00	0.12	0.00	0.00	0.00	0.00					
30 Min West	0.08	0.00	0.12	0.00	0.00	0.00	0.00					
Regulation East	30.21	29.03	24.35	9.64	7.83	8.95	9.36					
Regulation West	30.21	29.03	24.35	9.64	7.83	8.95	9.36					
NYCA Regulation Movement	0.28	0.27	0.26	0.17	0.15	0.17	0.21					
Real Time Market												
10 Min Spin East	19.64	15.48	12.19	4.15	1.78	1.92	2.57					
10 Min Spin West	13.10	11.80	9.11	0.94	0.61	0.72	1.08					
10 Min Non Synch East	9.03	0.70	1.59	0.93	0.00	0.48	0.92					
10 Min Non Synch West	3.37	0.00	0.48	0.00	0.00	0.00	0.00					
30 Min East	1.10	0.00	0.11	0.00	0.00	0.00	0.00					
30 Min West	0.92	0.00	0.11	0.00	0.00	0.00	0.00					
Regulation East	31.50	29.02	23.52	9.02	7.87	9.21	9.21					
Regulation West	31.50	29.02	23.52	9.02	7.87	9.21	9.21					
NYCA Regulation Movement	0.27	0.27	0.27	0.17	0.15	0.18	0.21					
INTO A REGULATION MOVEMENT	0.27	0.27	0.27	0.17	0.15	0.10	0.21					
3												
<u>2013</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>	October	November	<u>December</u>
2013 Day Ahead Market	<u>January</u>	-										
2013 Day Ahead Market 10 Min Spin East	<u>January</u> 11.12	9.05	8.73	6.49	9.25	7.59	10.13	6.84	7.65	7.85	7.68	10.35
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West	<u>January</u> 11.12 7.72	9.05 5.53	8.73 4.34	6.49 4.46	9.25 4.67	7.59 4.46	10.13 4.06	6.84 3.94	7.65 4.40	7.85 4.38	7.68 4.37	10.35 5.23
2013 Day Ahead Market 10 Min Spin East	<u>January</u> 11.12 7.72 2.91	9.05 5.53 4.79	8.73 4.34 4.36	6.49	9.25 4.67 4.52	7.59 4.46 3.73	10.13 4.06 8.31	6.84 3.94 3.37	7.65 4.40 3.62	7.85 4.38 3.82	7.68 4.37 3.45	10.35 5.23 4.37
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	<u>January</u> 11.12 7.72 2.91 1.11	9.05 5.53 4.79 1.73	8.73 4.34 4.36 0.84	6.49 4.46 3.36 1.38	9.25 4.67 4.52 0.55	7.59 4.46 3.73 0.88	10.13 4.06 8.31 2.27	6.84 3.94 3.37 0.60	7.65 4.40 3.62 0.63	7.85 4.38 3.82 0.70	7.68 4.37 3.45 0.96	10.35 5.23 4.37 0.87
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	<u>January</u> 11.12 7.72 2.91	9.05 5.53 4.79	8.73 4.34 4.36	6.49 4.46 3.36	9.25 4.67 4.52	7.59 4.46 3.73	10.13 4.06 8.31	6.84 3.94 3.37	7.65 4.40 3.62	7.85 4.38 3.82	7.68 4.37 3.45	10.35 5.23 4.37
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	<u>January</u> 11.12 7.72 2.91 1.11	9.05 5.53 4.79 1.73	8.73 4.34 4.36 0.84	6.49 4.46 3.36 1.38	9.25 4.67 4.52 0.55	7.59 4.46 3.73 0.88	10.13 4.06 8.31 2.27	6.84 3.94 3.37 0.60	7.65 4.40 3.62 0.63	7.85 4.38 3.82 0.70	7.68 4.37 3.45 0.96	10.35 5.23 4.37 0.87
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	January 11.12 7.72 2.91 1.11 0.56	9.05 5.53 4.79 1.73 0.65	8.73 4.34 4.36 0.84 0.56	6.49 4.46 3.36 1.38 0.53	9.25 4.67 4.52 0.55 0.36	7.59 4.46 3.73 0.88 0.40	10.13 4.06 8.31 2.27 0.62	6.84 3.94 3.37 0.60 0.33	7.65 4.40 3.62 0.63 0.23	7.85 4.38 3.82 0.70 0.28	7.68 4.37 3.45 0.96 0.59	10.35 5.23 4.37 0.87 0.65
2013 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	January 11.12 7.72 2.91 1.11 0.56 0.56	9.05 5.53 4.79 1.73 0.65 0.65	8.73 4.34 4.36 0.84 0.56 0.56	6.49 4.46 3.36 1.38 0.53	9.25 4.67 4.52 0.55 0.36 0.36	7.59 4.46 3.73 0.88 0.40 0.40	10.13 4.06 8.31 2.27 0.62 0.62	6.84 3.94 3.37 0.60 0.33 0.33	7.65 4.40 3.62 0.63 0.23 0.23	7.85 4.38 3.82 0.70 0.28 0.28	7.68 4.37 3.45 0.96 0.59 0.59	10.35 5.23 4.37 0.87 0.65 0.65
2013 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 Regulation East Regulation West	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94	9.05 5.53 4.79 1.73 0.65 0.65 12.70	8.73 4.34 4.36 0.84 0.56 0.56 9.21	6.49 4.46 3.36 1.38 0.53 0.53 9.93	9.25 4.67 4.52 0.55 0.36 0.36 8.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80	6.84 3.94 3.37 0.60 0.33 0.33 8.29	7.65 4.40 3.62 0.63 0.23 0.23 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98	7.68 4.37 3.45 0.96 0.59 0.59 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74
2013 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 East Regulation West RTC Market	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94	9.05 5.53 4.79 1.73 0.65 0.65 12.70	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74
2013 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 East Regulation West RTC Market 10 Min Spin East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74
2013 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 East Regulation West RTC Market 10 Min Spin East 10 Min Spin West	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74
2013 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 East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16
2013 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 Regulation East Regulation West Ret Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17
2013 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 Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13
2013 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 East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00
2013 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 East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 0.00 6.42	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 0.00 6.81	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00
2013 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 Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation East Regulation East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.29 0.16 0.00 0.00 0.00 6.81 6.81	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 0.00 9.63 9.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75
2013 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 East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation East Regulation East Regulation East Regulation West Regulation West Regulation West NYCA Regulation Movement	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 0.00 6.42	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 0.00 6.81	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00
2013 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 Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation East Regulation East Regulation Mon Synch West Regulation Mon Synch West Regulation Most Regulation Movement	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 0.00 15.18 15.18 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.16 0.00 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20
2013 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 Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch East 10 Min West 30 Min East 30 Min West Regulation East Regulation Movement Real Time Market 10 Min Spin East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 0.00 15.18 15.18 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.16 0.00 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 0.00 9.63 9.63 0.22	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20
2013 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 East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min West Regulation East Regulation East Regulation Movest Regulation East Regulation West Regulation West NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 0.00 6.42 6.42 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.29 0.16 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21 7.03 1.83	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20
2013 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 Regulation East Regulation West 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 Regulation West REGULATION West 10 Min Non Synch West 10 Min Non Synch West Regulation East Regulation East Regulation West Regulation West NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin West	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 0.00 18.42 9.22 8.81	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.16 0.00 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21 7.03 1.83 4.37	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 0.20
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation East Regulation West Regulation East Regulation West NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.29 0.16 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21 7.03 1.83	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 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 East Regulation East Regulation East Regulation Movest Regulation West Regulation West NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin Hest 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00 4.63 3.00 0.52 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27 3.41 0.94 2.22 0.53 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21 7.03 1.83 4.37 0.70 0.17	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 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 East Regulation East Regulation East Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East 30 Min East 30 Min West	January 11.12 7.72 2.91 1.11 0.56 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00 0.00 0.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00 4.63 3.00 0.52 0.00 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00 6.12 1.44 0.93 0.10 0.00 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00 0.00 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27 3.41 0.94 2.22 0.53 0.00 0.00 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28 20.24 7.29 14.51 4.91 7.99 4.55	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.16 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00 0.00 0.00 0.00 0.0	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21 7.03 1.83 4.37 0.70 0.17 0.17	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00 0.00 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34 0.00 0.00
2013 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 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 East Regulation East Regulation East Regulation Movest Regulation West Regulation West NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin Hest 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00 4.63 3.00 0.52 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27 3.41 0.94 2.22 0.53 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21 7.03 1.83 4.37 0.70 0.17	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34 0.00 0.00
2013 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 East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin East Regulation West NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Spin West 30 Min East 30 Min East 30 Min East 30 Min East Regulation East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00 0.00 0.00 0.00 15.40	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00 4.63 3.00 0.52 0.00 0.00 0.52 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 7.43 7.43 0.00 6.12 1.44 0.93 0.10 0.00 0.00 6.89 6.89	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00 0.00 7.03 7.03	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00 0.00 6.48 6.48	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27 3.41 0.94 2.22 0.53 0.00 0.00 10.55 10.55	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28 20.24 7.29 14.51 4.91 7.99 4.55 16.57	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00 0.00 0.00 0.00 7.32 7.32	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21 7.03 1.83 4.37 0.70 0.17 0.17 8.90 8.90	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 8.98 3.70 0.97 0.44 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00 0.00 0.00 9.00 9.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00 0.00 9.12 9.12	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34 0.00 0.00
2013 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 Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min West Regulation West Regulation West 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Spin East 10 Min West Regulation East Regulation West NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch 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 East 30 Min West Regulation East	January 11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00 0.00 0.00 0.00 15.40	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00 4.63 3.00 0.52 0.00 0.00 0.00 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 9.21 6.94 1.90 0.70 0.15 0.00 7.43 7.43 0.00 6.12 1.44 0.93 0.10 0.00 0.00 6.89	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00 0.00 0.00 7.03	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00 0.00 6.48	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27 3.41 0.94 2.22 0.53 0.00 0.00 10.55	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28 20.24 7.29 14.51 4.91 7.99 4.55 16.57	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00 0.00 0.00 0.00 0.0	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21 7.03 1.83 4.37 0.70 0.17 0.17 8.90	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00 0.00 0.00 0.00 0.00 0.0	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34 0.00 0.00

NYISO In City Energy Mitigation - AMP (NYC Zone) 2013 - 2014 Percentage of committed unit-hours mitigated

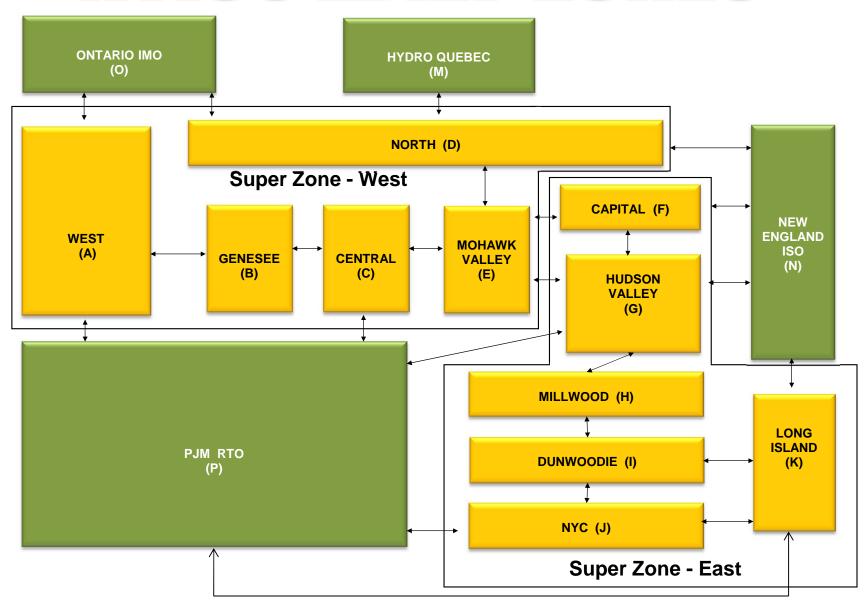








NYISO LBMP ZONES



Market Mitigation and Analysis Prepared: 8/5/2014 11:40 AM

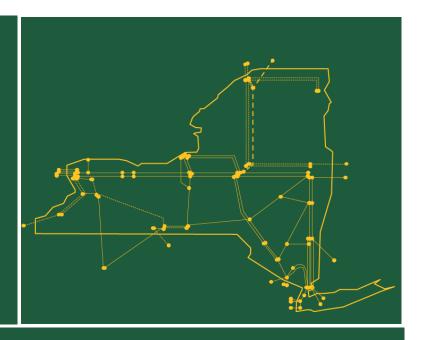
Billing Codes for Chart 4-C

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

Market Mitigation and Analysis Prepared: 8/5/2014 11:40 AM



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.



www.nyiso.com



Northeast Seams Report

Rana Mukerji

Senior Vice President, Market Structures New York Independent System Operator

Business Issues Committee Meeting

August 13, 2014 Rensselaer, NY



Issue	Description
1. Michigan- Ontario PAR Cost Allocation	 On October 20, 2010 Midwest ISO and ITC filed proposed tariff amendments at FERC seeking to allocate 30.9 % of the cost of ITC's phase angle regulating transformers at Bunce Creek on the Michigan-Ontario border to New York, and 19.5% to PJM. The Commission has set a November 10, 2010 comment date in Docket No. ER11-1844. The NYISO intends to vigorously oppose this proposal.
	 On November 17, 2010 the NYISO, the New York TOs, ISO-New England and many other entities filed protests in opposition to joint Midwest ISO-ITC cost allocation proposal. NYISO contends that the cost allocation proposal is not consistent with Commission precedent or the Commission's recent transmission planning and cost allocation NOPR.
	On May 22, 2012, FERC issued a declaratory order instructing the NYISO "the Commission has accepted MISO's proposed allocation and charges in Docket No. ER11-1844, and permitted them to become effective, subject to refund. Therefore, any charges properly billed pursuant to these Commission-accepted MISO Tariff provisions must be paid by NYISO in accordance with the provisions of MISO's Tariff."
	 A hearing before the FERC Administrative Law Judge (ALJ) regarding cost recovery for the MI/ON PARs was concluded on September 13, 2012. Initial and Reply Briefs were filed by all parties to the proceeding in October.
	 On December 18, 2012 the FERC ALJ issued his Initial Decision rejecting the MISO/ITC proposal to allocate a portion of the cost of the MI/ON PARs to PJM and New York. MISO and ITC filed exceptions arguing that the AJL's Initial Decision should be overturned by the Commission. Responses to the MISO/ITC Exceptions were submitted by NYISO, the NYTOs, PJM, the PJM TOs and the MISO TOs on February 6, 2013.



Issue	Description
2. Market-to-Market Coordination-	 NYISO and PJM activated M2M coordination on January 15, 2013. The ISOs have successfully coordinated generation redispatch for several flowgates and have begun to coordinated Ramapo tap changes based on the M2M protocols.
PJM	 On July 12, 2013 PJM suspended M2M Ramapo PAR coordination of the thunderstorm alert (TSA) M2M flowgates. NYISO and PJM are engaged in ongoing Dispute Resolution regarding PJM's suspension of coordination on these flowgates.
	 At the March 4, 2014 MIWG NYISO presented a proposal which would allow NYISO and PJM to resume M2M Ramapo PAR coordination of the thunderstorm alert (TSA) flowgates. NYISO intends to request stakeholder approval for updates to the PJM-NYISO JOA and file with FERC for implementation by summer 2014.
	 On April 11, 2014 the NYISO MC approved revisions to the PJM-NYISO JOA which will allow TSA flowgates to be re-introduced into M2M Ramapo PAR coordination.
	 On June 11, 2014 updates to the NYISO-PJM Joint Operating Agreement became effective in support of M2M coordination at times when a Storm Watch is in effect in New York. NYISO and PJM have begun operating under the revised protocols.



Issue	Description
3. Interface Pricing	 On October 26, 2011 NYISO deployed pricing and scheduling software enhancements that are designed to allow the NYISO to better reflect the distribution of flows around Lake Erie. These enhancements are referred to as "Interface Pricing."
	 On March 20, 2013 FERC issued an order accepting the NYISO's January 18 proposed interface pricing Tariff revisions. Accordingly the NYISO begun posting to its OASIS Lake Erie unscheduled power flow assumptions used for the Day Ahead market and PJM interface interchange distribution assumptions used for both the Day Ahead and Real Time markets. The Commission also directed the NYISO to file additional tariff revisions requiring that the NYISO, in consultation with its MMU, to seek authorization from the Commission to add additional prohibited scheduled paths at such time that it becomes apparent that a path is being scheduled in a manner inconsistent with expected actual flows. In accordance with FERC's March 20, 2013 Order, on May 20, 2013, the NYISO
	submitted tariff revisions that are designed to permit the NYISO, acting in consultation with its MMU, to submit a compliance filing to FERC proposing to prohibit the use of particular scheduling path(s). On June 25, 2013 FERC accepted the NYISO filing.



Issue	Description
4. Enhanced Interregional Transaction Coordination	 EITC Phase III (15-minute scheduling at PJM) At the June 6, 2011 Market Issues Working Group NYISO provided an update on EITC Phase 3 which will provide for 15-minute transaction scheduling between NY and PJM. Software and tariff changes developed for EITC Phase 1 will support much of the EITC Phase 3 deployment. Additional operational tools and procedures will be developed to support 15-minute checkouts with PJM. At the April 26, 2012 MIWG NYISO provided stakeholders with an update on the rollout of 15-minute transaction scheduling with PJM. The roll-out order for the proxy buses will be: Keystone, Neptune, Linden VFT. Market Participants will be given two weeks notice before the implementation at each proxy. On June 27, NYISO activated 15-minute scheduling at the Keystone proxy bus. On October 30, 2012 15-minute scheduling was activated for the Neptune proxy bus. On November 28, 2012 NYISO activated15-minute scheduling for the Linden VFT proxy bus. On June 3, 2013 the HTP entered commercial operation. The implementation includes 15-minute scheduling capability.



 4. Enhanced Interregional Transaction Coordination (continued) EITC Phase IV (CTS with ISO-NE) On April 19, 2012 FERC issued an order accepting NYISO' revisions effective with the implementation of CTS. Both ISOs are working toward an end of 2015 implementat EITC Phase V (CTS with PJM) The consumer impact analysis for CTS with PJM was present the August 6, 2013 MIWG. NYISO expects to see three to appeal NY production cost against as a result of implementation. 	
The consumer impact analysis for CTS with PJM was present the August 6, 2013 MIWG. NYISO expects to see three to	
 annual NY production cost savings as a result of implement. On February 20, 2014 FERC approved both the NYISO and revisions. NYISO expects to implement CTS with PJM in N PJM will present an update on the transparency and accura at their March 5 Market Implementation Committee in responsive to the number of the number	ten million dollars in tation of CTS with PJM. d PJM's CTS tariff lovember 2014. acy of IT SCED prices onse to the Coordinated l. The presentation aring RTC and RTD mic/20140305/20140305- o proceed with



Issue	Description
4. Enhanced Interregional	 EITC Phase V (CTS with PJM) [continued] On March 26, 2014 NYISO deployed the new Joint Energy Scheduling System (JESS) interregional energy transaction bidding platform.
Transaction Coordination (continued)	 At the July 7, 2014 MIWG NYISO reviewed enhancements to the JESS to support CTS transaction bidding and 15-minute transaction bid curve blocks. Activation of CTS bidding with PJM is targeted for November 2014.
	JESS Training; weeks of August 28 and September 5
	 JESS Sandbox Testing—three sessions: 9/2-9/4, 9/16-9/18, and 9/30- 10/2
	 At the June 26, 2014 MC NYISO stakeholders approved for tariff revisions to clarify credit requirements for CTS transactions. The tariff revisions will allow for consideration of day ahead transaction schedules in the determination of the credit requirements for CTS transactions.
	 NYISO expects to file tariff revisions to eliminate Non-Firm Transmission Service for External Transactions in early August 2014.



Issue	Description
4. Enhanced Interregional Transaction Coordination (continued)	 Five-minute Transaction Scheduling (at HQ Chateauguay) Five-minute transaction scheduling would look to continue to improve real-time interchange scheduling processes by allowing economic scheduling of interchange across controllable interties via the 5 minute Real-Time Dispatch ('RTD'). This initiative is being considered for design and implementation in the 2015-2016 time frame.
	At the March 25, 2014 MIWG NYISO reviewed details related to the temporary bid cap waiver which was in effect from January 22 to February 28. At this MIWG, Potomac Economics provided their assessment of the impact the existing offer cap had on market outcomes. PJM is working with stakeholders in their region through their MRC to consider modification to the offer cap. NYISO will continue to coordinate with PJM and ISO-NE as well as NYISO stakeholder considering any modifications to the offer cap.



Estimated Benefits of Broader Regional Markets Initiatives

- An analysis of the Broader Regional Markets initiatives conducted by the NYISO's Independent Market Monitor indicates, under a \$6 per MMBTU natural gas price scenario, annual regional savings of at least \$362 million with \$193 million annual savings on New York interfaces and constraints.
- Coordination of flows around Lake Erie would result in an estimated \$53 million in annual savings regionally with \$18 million for New York interfaces and constraints
 - ✓ Gross value of over-priced and under-priced loop flow is \$430 on an annual basis
 - ✓ Reasonable to expect to capture 10-20% of this value
- Improved interface utilization would result in \$309 million in annual savings regionally with \$175 million for New York interfaces and constraints
 - Measured as reduction in production costs
 - ✓ Results in price convergence between regions
- At the September 27, 2010 joint stakeholder technical conference David Patton presented an update to the analysis of the benefits of the Broader Regional Market Initiatives originally presented at the April 21 MC meeting.



Issue	Description
5. Reserves Participation in Adjacent Regional Markets	There is Market Participant interest in selling operating reserves from generation sources in one region to provide reserves in another region. This issue will be considered along with other longer-term market issues as part of the NYISO Market Evolution Plan, which was presented to NY stakeholders in June 2005. Since late 2005, the NYISO's Market Evolution Plan is part of its strategic planning process. The NYISO suggested this item to its Market Issues WG for stakeholder discussion and prioritization. Following implementation (October 2006) and assessment of their reserve market, ISO-NE will consider inter-control area provision of reserves.
	 The NYISO intends to evaluate the capabilities for cross border reserve trading as part of the Interregional Transaction Coordination effort in 2010.
	 On November 10, 2010 NYISO presented a proposed approach for allowing market participants to purchase or sell Operating Reserves and Regulation Service at an external interface. Reserve product qualification, performance management, scheduling, and settlement aspects of the proposed approach were discussed.



Issue	Description
6. Congestion Rent Shortfalls Resulting From External Transmission Outages	 Transmission outages or deratings occurring outside of the NYCA that are not anticipated at the time of a TCC auction can force the NYISO to reduce the assumed transfer capability between the NYCA and the adjacent control area. If the resulting set of TCCs are rendered infeasible, the NYISO will incur congestion rent shortfalls in the day-ahead market. There is currently no way to assign the cost impact (due to the congestion rent shortfall) of that outage to the responsible external transmission owner. In addition, transmission outages or deratings that cause reductions in transfer capability between regions may have an impact on ICAP sales between regions. NYISO Senior Management will evaluate project, scheduling and budget impacts in conjunction with all other identified initiatives and determine what further action will be taken. NYISO will evaluate this issue as part of NYISO's market rules assessment initiative.



Issue	Description
7. Elimination of Rate Pancaking	• The NYISO, with the support of the New York TOs, will initiate discussions among the affected parties in the Northeast to explore the potential for rate pancaking relief between New York and PJM. A meeting between the NY and PJM TOs was held on August 18, 2005 to initiate discussions on this issue. With the Transmissions Owners as the primary drivers of this issue, NYISO and PJM are awaiting indications of intent from PJM's TOs as to the level of priority this issue has with the TOs. PJM has supply transaction data regarding volume and rates for PJM exports into NY.
	• The NYISO has also initiated discussions with IESO to eliminate export fees. The revenue application review process for the transmitter that owns the inter-tie transmission lines in Ontario, and is responsible to the provincial regulator for this fee, is currently ongoing. The possibility of eliminating the transmission export fee, along with other options, is being discussed at this rate hearing. The decision on the transmitter's revenue application is expected to be given in May of 2007.
	The Ontario Energy Board recently upheld the \$1/MWh export charge from IESO. However, the IESO will be (1) conducting a study on appropriate export transmission service rates for Hydro One Networks' 2010 rate process; and (2) will start negotiations with the NYISO to pursue a reciprocal arrangement to eliminate export charges. The IESO will begin discussions with its neighbors early in 2008 and will complete its market impact studies in 2009. The Ontario Energy Board must approve any changes to Hydro One's export transmission charges.
	While rate pancaking between NYISO and ISO-NE has already been eliminated, it is anticipated that the recently initiated interregional cost allocation discussions taking place under the Northeastern ISO/RTO Coordination of Planning Protocol will address the elimination of through-and-out charges between NYISO and PJM.



Issue	Description
8. Asymmetric Capability Year Impact on Inter- Area Capacity Sales	 Description On February 3, 2010 FERC approved Tariff changes necessary to support the Capability Year adjustment election for holders of UDRs. At the June 17, 2010 Installed Capacity Working Group (ICAP WG) NYISO presented an overview of market design considerations related to the realignment of NYISO's ICAP Capability Year with neighboring markets. PJM and ISO-NE both employ a planning year beginning on June 1 each year and the NYISO employs two distinct six-month capability periods within a capability year beginning on May 1 each year. The NYISO requested feedback from market participants related to anticipated market benefits, additional perceived obstacles, potential impacts on exports from New York, and prioritization with respect to other ICAP market enhancements.
	 NYISO is evaluating an annual capacity/forward capacity market design which will be presented for stakeholder consideration in Q4-2014.



Issue	Description
9. Capacity Market Enhancements	 Explore Impediments to Reciprocal Capacity Wheeling with New England Identity the scope of issues pertaining to auction structure, timing, planning, operations, IRM/LCR, cost allocation and other impact areas in NY and NE markets
	 Identify/enumerate capacity market seams Investigate whether delisted capacity is treated similarly in ISO-NE and NYISO (ICAP vs. UCAP, interaction with export limit, losses, etc.)
	 Preliminary findings of the capacity market study were reviewed with stakeholders at the July 31, 2012 ICAPWG meeting.
	 At the September 11, 2012 ICAPWG meeting FTI presented draft capacity market study results and solicited stakeholder feedback and comments. A draft version of the report will be distributed for stakeholder comment in mid-October with a final version issued in early November.
	The deadline for submitting written comments on the draft capacity market study report was extended to December 20, 2012. The NYISO posted the final capacity market study report on March 14, 2013.
	 FERC held a technical conference on February 26, 2014 to explore the possibility of modeling Zone K as an export constrained zone. NYISO filed post technical conference comments with FERC on March 26, 2014.



Issue	Description
10. Market Solutions to Loop Flow: Buy-Through of Congestion	 Per the December 30, 2010 FERC order, the NYISO has suspended work on Buy- Through of Congestion in order to focus resources on the Commission's priorities of Interface Pricing and Market to Market.
	 On March 19, 2014 NYISO, PJM, MISO and IESO jointly submitted an informational report to FERC addressing the effects of various market improvements on loop flow, and assessing the need to implement a Buy-Through of Congestion solution to loop flow.
	 NYISO is obligated to continue to submit periodic informational reports to FERC addressing the effects of various market improvements on loop flow, and assessing the need to implement a Buy-Through of Congestion solution to loop flow. See New York Independent System Operator, Inc., 133 FERC ¶ 61,276 (2010).
	 On June 2, 2014 FERC issued an order granting NYISO's request to change the semiannual reporting requirement on BRM initiatives to an annual reporting requirement.



Issue	Description
11. Coordination of Interregional	 FERC issued Order 1000, the Final Rule on Transmission Planning & Cost Allocation on July 21, 2011. It contains new requirements in the following areas: Regional Planning
Planning	Public Policy Considerations
	Inter-regional Planning
	Cost Allocation: Both regional and inter-regional
	Eliminates "Right-of-First-Refusal" tariff provisions
	 It is anticipated that the Northeast ISO/RTO Planning Coordination Protocol will be utilized as the vehicle for compliance filings related to inter-regional planning and cost allocation.
	Order 1000 Regional Requirements
	 On October 11, 2012 NYISO made a joint compliance filing with the TO's to address the regional planning and cost allocation requirements of Order 1000.
	 On April 18th FERC issued an Order on Compliance which conditionally accepted the NYISO/NYTOs' regional compliance filing
	There were numerous conditions—and some are significant
	 Additional compliance filing is required by August 16th
	 NYISO will be working with the NYTOs and ESPWG to develop a response to the Order
	 NYISO has scheduled joint IPTF/ESPWG meetings on a bi-weekly basis through August



Issue	Description
Issue 11. Coordination of Interregional Planning (continued)	 Description Order 1000 Regional Requirements (cont'd) On October 15th, NYISO made a compliance filing to address the regional planning and cost allocation requirements of the April 18th order. NYISO and the NYTOs filed a joint response to the protests on December 16th and are awaiting FERC response NYISO has begun work on various implementation procedures and other tasks in anticipation of a final FERC Order, including: Updates to the Reliability Planning Manual Updates to the CARIS Planning Manual Preparation of a new Public Policy Planning Manual Preparation of draft Study Agreements for Reliability and PPR Since June, there have been multiple stakeholder meetings to receive input
	 Since June, there have been multiple stakeholder meetings to receive input on these documents.



Issue	Description
11. Coordination of Interregional Planning (continued)	 Order 1000 Regional Requirements (cont'd) On July 2, 2014 NYISO filed a request with FERC to change the effective date of the Regional Compliance filing to the start of the next planning cycle in Jan 2016 On July 17, 2014 FERC issued an Order which largely accepted the October 2013 compliance filing, but required a further compliance filing by September 15 to clarify specific issues. FERC rejected NYISO's recent request to defer the implementation date and approved the January 1, 2014 effective date originally requested. NYISO has provided a summary of the FERC Order and a detailed matrix itemizing the required tariff revisions to stakeholders NYISO is working with the NYTOs on the compliance filing and will bring tariff language to ESPWG for discussion in August
	 On August 1, 2014, NYISO issued a notice soliciting proposals for Public Policy Transmission Needs.



Issue	Description
Issue 11. Coordination of Interregional Planning (continued)	Order 1000 Interregional Requirements NYISO, PJM and ISO-NE held IPSAC webex meetings on January 28 th and February 26 th to discuss stakeholder comments on the Northeast Protocol. Written comments were requested by March 4 th Separate compliance filings were made by each region on July 10th On September 24 th , NYISO filed an answer to third party protests regarding certain aspects of the July 10 th compliance filing On an IPSAC Webinar held on March 28 th , ISO-NE, NYISO and PJM reviewed the Order 1000 interregional requirements and implementation procedures anticipated under the July 10 th compliance filings Awaiting FERC response



Issue	Description
12. Eastern Interconnection Planning Collaborative (EIPC)	On December 18, 2009, the DOE announced award selections totaling \$60 million dollars in funding to develop open and transparent stakeholder processes and to conduct transmission planning analyses on an interconnection-wide basis. The awardees for the Eastern Interconnection were the EIPC proposal for developing the stakeholder process and performing the technical analysis and the EISPC proposal to establish a consensus-building process among the Eastern states to identify resource and policy options as input to the technical analysis.
	 Eight energy futures were developed and approved by SSC Macroeconomic analysis was completed on a total of 80 futures and sensitivities The SSC selected the final three Scenarios for analysis in Phase II: Business As Usual National RPS—Regional Implementation Combined Federal Climate and Energy Policy Phase I Report was filed with DOE on December 16th Phase I Report posted on EIPC Website at: http://eipconline.com/uploads/Phase 1 Report Final 12-23-2011.pdf



Issue	Description
12. Eastern Interconnection Planning Collaborative (EIPC) (continued)	 Power flow models were developed for the final three SSC Scenarios EIPC PAs identified transmission facilities to support each resource expansion Cost estimates were developed for the transmission and resource additions for each scenario Production cost analysis and sensitivity analysis was conducted for each scenario PAs prepared a draft Report to present the results of the Phase II analyses for stakeholder review and comment EIPC submitted the final version of the Phase 2 Report to DOE for review and comment on December 26th This report is posted on the EIPC website at http://eipconline.com/Phase II Resources.html



Issue	Description
12. Eastern	2013 - 2014: EIPC Non-Grant Study
Interconnection Planning	 Joint IPTF/EGCWG meeting was held on November 25th to provide status updates on the EIPC grant and non-grant studies
Collaborative (EIPC)	 December: EI-wide Webinar was held on December 13th to review updated roll-up cases and draft Roll-Up report and to discuss potential scenarios for analysis in 2014 and to review the schedule and next steps
(continued)	 Joint IPTF/EGCWG meeting were held on January 6th, 23rd & Feb 20th to discuss comments on the Roll-up cases and draft Report and to receive input on potential scenarios
	 EIPC webinar to discuss input on scenarios was held on March 25th
	 Stakeholder written comments on scenarios were due March 28th
	 Final two scenarios and 2014 work plan was posted on April 14th
	Update Scenario for 2023
	Drought Scenario for 2023
	 EIPC has begun model development for these two scenarios
	 A webinar will be scheduled during the summer to provide a status update to stakeholders



Issue	Description
Issue 12. Eastern Interconnection Planning Collaborative (EIPC) (continued)	Description 2013 - 2014: EIPC Gas-Electric Interface Study DOE has granted EIPC an extension of time in order to perform an analysis of the gas/electric interface. Participants in this study are: NYISO, PJM, ISO-NE, IESO, MISO and TVA Levitan selected as consultant in September 2013 SSC Meeting was held on October 29-30 th in Washington DC to kick-off the study, review the Work Plan, models, input assumptions and output formats SSC Meeting was held on December 20 th to discuss electric and gas sector assumptions for Targets 1-4; describe three Scenarios and discuss possible sensitivities for Target 2.



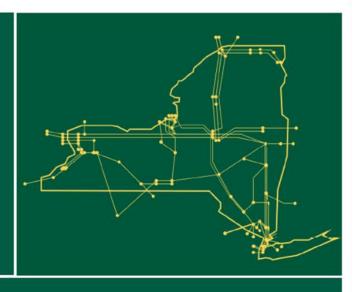
Issue	Description
Issue 12. Eastern Interconnection Planning Collaborative (EIPC) (continued)	Description 2013 - 2014: EIPC Gas-Electric Interface Study (cont'd) SSC Webinars were held in January, February and March to report on the status of Target 1; receive input on sensitivities for Target 2 and kick-off Targets 3 & 4. Multiple IPTF/EGCWG Meetings were held during the first half of 2014 to: review the Target 1 draft Report receive input on sensitivities for Target 2 Provide status updates Target 1 Final Draft Report and Target 2 First Set of sensitivities were posted on April 14 th Target 2 initial Draft Report was posted with initial results from the Three Scenarios and the first set of sensitivities on June 20 th SSC Meeting was held in Atlanta on June 25-26 th to: Discuss the Target 2 initial Draft Report Finalize second set of sensitivities Provide a status update on Targets 3 & 4 Final list of sensitivities—including the second set—was posted on July 3 rd
	 An SSC Webinar was held on August 1 to provide status updates to stakeholders for Targets 2, 3 & 4



Issue	Description
12. Eastern Interconnection Planning Collaborative (EIPC) (continued)	 2013 - 2014: EIPC Gas-Electric Interface Study (cont'd) Target 2 analysis to continue through mid-September Data collection and model building are underway in preparation for Target 3 and 4 analysis later in the year The Gas-Electric Study and technical analysis is expected to continue through 2014 Final Report will be presented to the DOE in June 2014



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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