

# NYISO CEO/COO Report

## Stephen Whitley

**President & Chief Executive Officer** 

### **Rick Gonzales**

Senior Vice President & Chief Operating Officer New York Independent System Operator

## **Management Committee Meeting**

July 31, 2013 Rensselaer, NY



## **NYISO CEO/COO Report**

## **CEO Report**

Infrastructure Master Plan

## **COO Report**

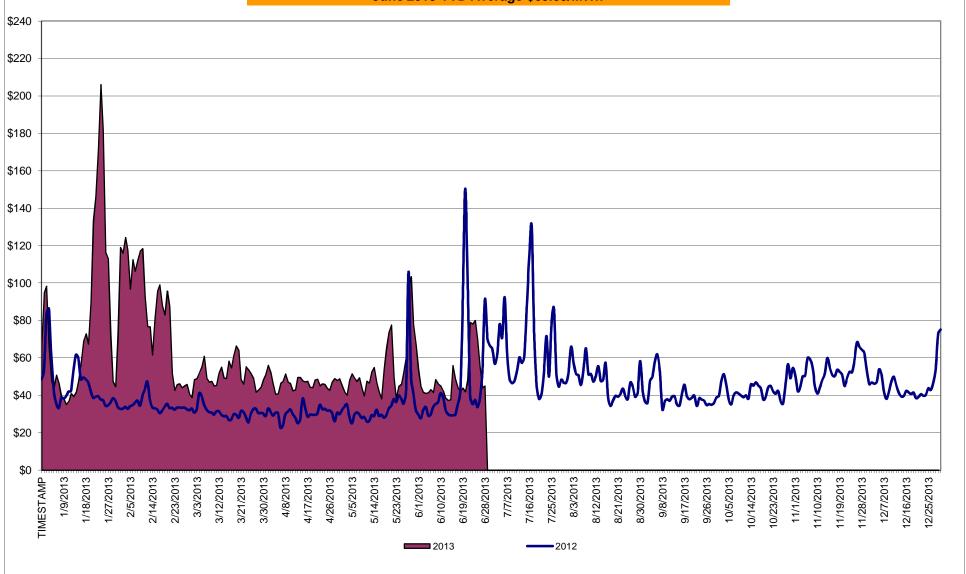
- Market Performance Highlights For Information Only
- Operations Performance Metrics Monthly Report

## Market Performance Highlights for June 2013

- LBMP for June is \$50.16/MWh, lower than \$52.27/MWh in May, and higher than \$47.37/MWh in June 2012.
  - Day Ahead Load Weighted LBMPs are lower compared to May.
  - Real Time Load Weighted LBMPs are higher compared to May.
- June 2013 average year-to-date monthly cost of \$63.39/MWh is an increase from \$38.89/MWh in June 2012.
- Average daily sendout is 469 GWh/day in June; higher than 407 in May 2013, and slightly lower than 471 GWh/day in June 2012.
- Natural gas prices were lower, and distillate prices were mixed compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$3.91/MMBtu, down from \$4.17/MMBtu in May.
  - Jet Kerosene Gulf Coast was \$20.47/MMBtu, up from \$20.21/MMBtu in May.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$20.61/MMBtu, down from \$20.64/MMBtu in May.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is \$0.37/MWh, lower than \$0.67/MWh in May.
    - The Local Reliability Share is \$0.69/MWh, up from \$0.56 in May.
    - The Statewide Share is (\$0.32)/MWh, lower than \$0.12/MWh in May.
  - TSA \$ per NYC MWh is \$0.61/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than May.

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

2012 Annual Average \$45.28/MWh June 2012 YTD Average \$38.89/MWh June 2013 YTD Average \$63.39/MWh

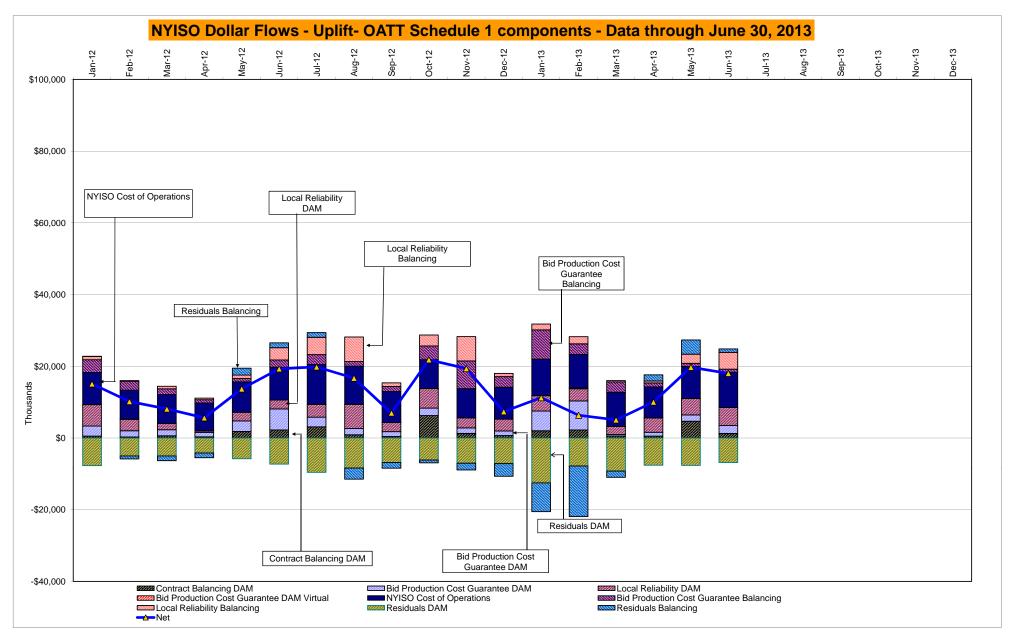


<sup>\*</sup> Excludes ICAP payments.

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

2013	January	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	August	September	October	November	December
LBMP	79.73	85.69	48.91	44.46	52.27	50.16	<u>ouly</u>	August	ОСРІСПІВСІ	October	INOVERTIBEL	December
NTAC	0.79	0.83	0.77	0.94	0.89	0.90						
Reserve	0.38	0.44	0.43	0.36	0.49	0.34						
Regulation	0.13	0.13	0.10	0.11	0.43	0.13						
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69						
Uplift	0.03	(0.24)	(0.33)	0.09	0.67	0.03						
Uplift: Local Reliability Share	0.41	0.40	0.19	0.10	0.56	0.69						
Uplift: Statewide Share	(0.33)	(0.64)	(0.52)	(0.26)	0.30	(0.32)						
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36						
Avg Monthly Cost	82.18	87.91	50.94	47.03	55.47	52.97						
Avg YTD Cost	82.18	84.93	73.90	67.76	65.52	63.39						
TSA \$ per NYC MWh	0.00	0.00	0.00	0.04	0.59	0.61						
2012	January	February	March	<u>April</u>	May	<u>June</u>	July	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	0.23	0.13	0.12	0.13	0.15	0.15	0.12	0.09	0.20	0.40	0.09
NYISO Cost of Operations	0.64	0.64	0.13	0.64	0.64	0.13	0.64	0.12	0.64	0.10	0.64	0.64
Uplift	0.44	0.04	0.04	(0.18)	(0.11)	0.61	0.04	0.04	(0.33)	1.04	0.82	(0.11)
Uplift: Local Reliability Share	0.49	0.17	0.00	0.10)	0.25	0.42	0.49	0.22	0.26	0.67	0.02	0.30
Uplift: Statewide Share	(0.05)	(0.10)	(0.19)	(0.25)	(0.36)	0.42	(0.26)	(0.61)	(0.59)	0.38	0.72	(0.41)
Voltage Support and Black Start	0.37	0.37	0.37	0.37	0.37	0.19	0.37	0.37	0.37	0.37	0.37	0.37
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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	0.00	0.00	0.00	0.00	1.52	0.45	0.85	0.46	0.59	0.00	0.00	0.00
2011	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	74.91	55.60	46.98	46.44	48.49	60.33	75.76	56.04	46.86	42.49	38.97	39.73
NTAC	0.62	0.75	0.86	0.81	1.13	1.22	0.66	0.60	0.43	0.56	0.62	0.69
Reserve	0.44	0.50	0.41	0.43	0.48	0.28	0.28	0.13	0.25	0.41	0.26	0.28
Regulation	0.20	0.18	0.15	0.12	0.10	0.15	0.12	0.09	0.08	0.09	0.08	0.09
NYISO Cost of Operations	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Uplift	1.26	0.58	0.45	0.21	(0.02)	0.61	1.42	0.65	0.15	(0.21)	0.11	0.15
Uplift: Local Reliability Share	0.95	0.71	0.33	0.38	0.36	0.82	1.19	0.87	0.45	0.23	0.19	0.19
Uplift: Statewide Share	0.31	(0.12)	0.12	(0.18)	(0.38)	(0.21)	0.24	(0.21)	(0.30)	(0.44)	(0.08)	(0.05)
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	78.50	58.69	49.92	49.07	51.24	63.67	79.30	58.58	48.83	44.40	41.11	42.00
Avg YTD Cost	78.50	68.82	62.36	59.14	57.52	58.70	62.77	62.13	60.66	59.18	57.76	56.47
TO 4 10 10 10 10 10 10 10 10 10 10 10 10 10	2.22	0.00	0.00	0.40	0.00	4 45	0.00	4.50	0.45	0.00	0.00	2.22
TSA \$ per NYC MWh  * Excludes ICAP payments.  Market Mitigation and Applying	0.00	0.00	0.00	0.13	0.00	1.45	0.38	1.59	0.15	0.00 Data refl	0.00 ects true-ups thru	0.00 March 2013.

\* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 7/5/2013 10:22 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**

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2013	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	15,140,096	14,116,189	14,250,091	12,963,905	13,451,310	14,872,971						
DAM LSE Internal LBMP Energy Sales	56%	55%	56%	57%	56%	57%						
DAM External TC LBMP Energy Sales	4%	6%	3%	3%	1%	1%						
DAM Bilateral - Internal Bilaterals	38%	37%	38%	37%	37%	36%						
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	3%	4%						
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	1%	1%	1%	1%						
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	1%	1%	1%						
Balancing Energy Market MWh	-462,089	-641,428	-488,071	-548,650	-582,242	-667,588						
Balancing Energy LSE Internal LBMP Energy Sales	-131%	-117%	-128%	-122%	-128%	-115%						
Balancing Energy External TC LBMP Energy Sales	33%	21%	24%	20%	30%	16%						
Balancing Energy Bilateral - Internal Bilaterals	4%	10%	11%	3%	4%	4%						
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	1%						
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	5%	3%	4%	5%	4%	2%						
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%	-16%	-11%	-6%	-10%	-9%						-
Transactions Summary												
LBMP	59%	59%	58%	58%	55%	56%						
Internal Bilaterals	39%	39%	40%	39%	39%	38%						
Import Bilaterals	0%	0%	0%	0%	4%	4%						
Export Bilaterals	1%	1%	2%	2%	2%	1%						
Wheels Through	1%	0%	1%	1%	0%	1%						
Market Share of Total Load												
Day Ahead Market	103.1%	104.8%	103.5%	104.4%	104.5%	104.7%						
Balancing Energy +	-3.1%	-4.8%	-3.5%	-4.4%	-4.5%	-4.7%						
Total MWH	14,678,007		13,762,020	12,415,255	12,869,068							
Average Daily Energy Sendout/Month GWh	453	453	429	398	407	469						
												-
2012	lonuoni	Echruan/	March	April	Mov	luno	lube	August	Contombor	Octobor	November	Docombor
2012	January	February	March	<u>April</u>	May	June	July	August	<u>September</u>	October 40 054 700	November	<u>December</u>
Day Ahead Market MWh	14,877,279	13,473,786	13,590,456	12,482,692	13,324,441	14,898,725	17,946,019	17,185,445	14,262,425	13,354,729	12,839,137	14,719,983
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	14,877,279 58%	13,473,786 57%	13,590,456 58%	12,482,692 59%	13,324,441 61%	14,898,725 63%	17,946,019 65%	17,185,445 63%	14,262,425 61%	13,354,729 60%	12,839,137 62%	14,719,983 57%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales	14,877,279 58% 1%	13,473,786 57% 1%	13,590,456 58% 0%	12,482,692 59% 1%	13,324,441 61% 1%	14,898,725 63% 1%	17,946,019 65% 1%	17,185,445 63% 1%	14,262,425 61% 0%	13,354,729 60% 1%	12,839,137 62% 3%	14,719,983 57% 3%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	14,877,279 58% 1% 38%	13,473,786 57% 1% 40%	13,590,456 58% 0% 40%	12,482,692 59% 1% 38%	13,324,441 61% 1% 36%	14,898,725 63% 1% 35%	17,946,019 65% 1% 32%	17,185,445 63% 1% 34%	14,262,425 61% 0% 37%	13,354,729 60% 1% 38%	12,839,137 62% 3% 33%	14,719,983 57% 3% 37%
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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  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	14,877,279 58% 1% 38% 0% 1% 186 -110% 9% 11% 0%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 1% 0%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 0%	14,898,725 63% 1% 35% 0% 1% 1% -528,764 -129% 23% 8% 0%	17,946,019 65% 1% 32% 0% 1% -579,200 -126% 6% 0%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0%	12,839,137 62% 3% 33% 0% 1% 146 13,283 -1421% 1411% 7% 0%	14,719,983 57% 3% 37% 0% 1% -737,059 -108% 7% 0% 0%
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  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	14,877,279 58% 1% 38% 0% 1% -878,126 -110% 9% 1% 0% 4%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0% 3%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 1% 0% 3%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 0% 54%	14,898,725 63% 1% 35% 0% 1% -528,764 -129% 23% 0% 3%	17,946,019 65% 1% 32% 0% 1% -579,200 -126% 19% 6% 0% 2%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0% 2%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3%	12,839,137 62% 3% 33% 0% 1% 146 13,283 -1421% 1411% 0% 135%	14,719,983 57% 3% 37% 0% 1% 16 -737,059 -108% 7% 0% 0% 3%
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  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	14,877,279 58% 1% 38% 0% 1% 186 -110% 9% 11% 0%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 1% 0%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 0%	14,898,725 63% 1% 35% 0% 1% 1% -528,764 -129% 23% 8% 0%	17,946,019 65% 1% 32% 0% 1% -579,200 -126% 6% 0%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0%	12,839,137 62% 3% 33% 0% 1% 146 13,283 -1421% 1411% 7% 0%	14,719,983 57% 3% 37% 0% 1% -737,059 -108% 7% 0% 0%
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  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	14,877,279 58% 1% 38% 0% 1% -878,126 -110% 9% 1% 0% 4%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0% 3%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 1% 0% 3%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 0% 54%	14,898,725 63% 1% 35% 0% 1% -528,764 -129% 23% 0% 3%	17,946,019 65% 1% 32% 0% 1% -579,200 -126% 19% 6% 0% 2%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0% 2%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3%	12,839,137 62% 3% 33% 0% 1% 146 13,283 -1421% 1411% 0% 135%	14,719,983 57% 3% 37% 0% 1% 16 -737,059 -108% 7% 0% 0% 3%
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  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	14,877,279 58% 1% 38% 0% 1% -878,126 -110% 9% 1% 0% 4%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0% 3%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 1% 0% 3%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 0% 54%	14,898,725 63% 1% 35% 0% 1% -528,764 -129% 23% 0% 3%	17,946,019 65% 1% 32% 0% 1% -579,200 -126% 19% 6% 0% 2%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0% 2%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3%	12,839,137 62% 3% 33% 0% 1% 146 13,283 -1421% 1411% 0% 135%	14,719,983 57% 3% 37% 0% 1% -737,059 -108% 7% 0% 0% 3%
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  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	14,877,279 58% 1% 38% 0% 1% -878,126 -110% 9% 1% 0% 4% -3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0% 3% 0%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 1% 0% 3% -1%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7% -4%	13,324,441 61% 1% 36% 0% 1% 1% -31,455 -561% 347% 107% 0% 54% -46%	14,898,725 63% 1% 35% 0% 1% 1% -528,764 -129% 23% 8% 0% 3% -5%	17,946,019 65% 1% 32% 0% 1% 1-579,200 -126% 6% 0% 2%	17,185,445 63% 1% 34% 0% 1% 1% -528,885 -138% 30% 4% 0% 2%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3% 1%	12,839,137 62% 3% 33% 0% 1% 14% 13,283 -1421% 0% 135% -32%	14,719,983 57% 3% 37% 0% 1% 1% -737,059 -108% 7% 0% 0% 3% -2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	14,877,279 58% 1% 38% 0% 1% -878,126 -110% 9% 1% 0% 4% -3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0% 3% 0%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 1% 0% 3% -1%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7% -4%	13,324,441 61% 1% 36% 0% 1% 1-31,455 -561% 0% 54% -46%	14,898,725 63% 1% 35% 0% 1% 1% -528,764 -129% 23% 8% 0% 3% -5%	17,946,019 65% 1% 32% 0% 1% 1% -579,200 -126% 6% 0% 2% 0%	17,185,445 63% 1% 34% 0% 1% 1% -528,885 -138% 30% 4% 0% 2% 2%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3% 1%	12,839,137 62% 3% 33% 0% 1% 14% 13,283 -1421% 0% 135% -32%	14,719,983 57% 3% 37% 0% 1% 1% -737,059 -108% 7% 0% 0% 3% -2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals	14,877,279 58% 1% 38% 0% 1% 1% -878,126 -110% 9% 1% 0% 4% -3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0% 3% 0%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 1% 0% 3% -1%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7% -4% 59% 39%	13,324,441 61% 1% 36% 0% 1% 1-31,455 -561% 347% 0% 54% -46%	14,898,725 63% 1% 35% 0% 1% 1% -528,764 -129% 23% 8% 0% 3% -5%	17,946,019 65% 1% 32% 0% 1% 1-579,200 -126% 6% 0% 2% 0%	17,185,445 63% 1% 34% 0% 1% 1% -528,885 -138% 30% 4% 0% 2% 2%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3% 1%	12,839,137 62% 3% 33% 0% 1% 14% 13,283 -1421% 7% 0% 135% -32%	14,719,983 57% 3% 37% 0% 1% 1% -737,059 -108% 7% 0% 0% 0% 3% -2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals	14,877,279 58% 1% 38% 0% 1% 1% -878,126 -110% 9% 1% 0% 4% -3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 0% 3% 0% 56% 42% 0%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 0% 3% -1% 55% 43% 0%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7% -4% 59% 39% 0%	13,324,441 61% 1% 36% 0% 1% 1-31,455 -561% 347% 0% 54% -46% 61% 36% 0%	14,898,725 63% 1% 35% 0% 1% 1-528,764 -129% 23% 8% 0% -5% 62% 36% 0%	17,946,019 65% 1% 32% 0% 1% 1-579,200 -126% 19% 6% 0% 2% 0%	17,185,445 63% 1% 34% 0% 1% 1-528,885 -138% 30% 4% 0% 2% 2% 63% 35% 0%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3% 1% 58% 40% 0%	12,839,137 62% 3% 33% 0% 1% 1% 13,283 -1421% 1411% 7% 0% 135% -32%	14,719,983 57% 3% 37% 0% 1% 1% -737,059 -108% 7% 0% 0% 3% -2% 58% 39% 0%
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  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Internal 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	14,877,279 58% 1% 38% 0% 1% 1% -878,126 -110% 9% 1% 0% 4% -3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 0% 3% 0% 56% 42% 0% 2%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 0% 3% -1% 55% 43% 0% 2%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7% -4% 59% 39% 0% 2%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 54% -46%	14,898,725 63% 1% 35% 0% 1% -528,764 -129% 23% 8% 0% -5% 62% 36% 0% 1%	17,946,019 65% 1% 32% 0% 1% 1-579,200 -126% 19% 6% 0% 0% 0%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0% 2% 2% 63% 35% 0% 1%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 1% 1%	12,839,137 62% 3% 33% 0% 1% 11% 13,283 -1421% 1411% 0% 135% -32% 65% 33% 0% 2%	14,719,983 57% 3% 37% 0% 1% 1% -737,059 -108% 7% 0% 0% 3% -2% 58% 39% 0% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Internal 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	14,877,279 58% 1% 38% 0% 1% 1% -878,126 -110% 9% 1% 0% 4% -3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 0% 3% 0% 56% 42% 0% 2%	13,590,456 58% 0% 40% 0% 2% 1% -896,684 -110% 7% 0% 3% -1% 55% 43% 0% 2%	12,482,692 59% 1% 38% 0% 2% 1% -371,022 -126% 20% 4% 0% 7% -4% 59% 39% 0% 2%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 54% -46%	14,898,725 63% 1% 35% 0% 1% -528,764 -129% 23% 8% 0% -5% 62% 36% 0% 1%	17,946,019 65% 1% 32% 0% 1% 15% -579,200 -126% 6% 0% 0% 65% 33% 0% 1%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0% 2% 2% 63% 35% 0% 1%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 1% 1%	12,839,137 62% 3% 33% 0% 1% 11% 13,283 -1421% 1411% 0% 135% -32% 65% 33% 0% 2%	14,719,983 57% 3% 37% 0% 1% 1% -737,059 -108% 7% 0% 0% 3% -2% 58% 39% 0% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market	14,877,279 58% 1% 38% 0% 1% -878,126 -110% 9% 1% 0% 4% -3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 1% 0% 3% 0% 56% 42% 0% 2% 0%	13,590,456 58% 0% 40% 0% 2% -896,684 -110% 0% 3% -1% 55% 43% 0% 2% 1%	12,482,692 59% 1% 38% 0% 2% 116 -371,022 -126% 20% 4% 0% 7% -4% 59% 39% 0% 2% 11%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 0% -46% 61% 36% 0% 2% 1%	14,898,725 63% 1% 35% 0% 1% -528,764 -129% 23% 8% 0% -5% 62% 36% 0% 1% 1%	17,946,019 65% 1% 32% 0% 1% 1% -579,200 -126% 6% 0% 2% 0% 65% 33% 0% 1% 1%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0% 2% 2% 63% 35% 0% 1%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1% 59% 39% 0% 1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3% 1% 58% 40% 0% 2% 0%	12,839,137 62% 3% 33% 0% 1% 1416 13,283 -1421% 1411% 0% 135% -32% 65% 33% 0% 2% 1%	14,719,983 57% 3% 37% 0% 1% -737,059 -108% 7% 0% 3% -2% 58% 39% 0% 2% 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  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  Market Share of Total Load	14,877,279 58% 1% 38% 0% 1% -878,126 -110% 9% 4% -3% 57% 41% 0% 2% 1% 106.3% -6.3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0% 3% 0% 56% 42% 0% 2% 0% -106.5% -6.5%	13,590,456 58% 0% 40% 0% 2% 1896,684 -110% 7% 1% 0% 3% -1% 55% 43% 0% 2% 1% 107.1% -7.1%	12,482,692 59% 1% 38% 0% 2% -371,022 -126% 20% 4% 0% 7% -4% 59% 39% 0% 2% 1% 103.1% -3.1%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 0% 54% -46% 61% 36% 0% 2% 1%	14,898,725 63% 1% 35% 0% 1% -528,764 -129% 23% 8% 0% 36% -5% 62% 36% 0% 1% 1%	17,946,019 65% 1% 32% 0% 1% -579,200 -126% 6% 0% 2% 0% 65% 33% 0% 1% 103.3% -3.3%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0% 2% 2% 63% 35% 0% 1% 1%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1% 59% 39% 0% 1% 15.1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3% 1% 58% 40% 0% 2% 0% 40% 0% 106.0% -6.0%	12,839,137 62% 3% 33% 0% 1% 146 13,283 -1421% 1411% 0% 135% -32% 65% 33% 0% 2% 1%	14,719,983 57% 3% 37% 0% 1% -737,059 -108% 7% 0% 0% 3% -2% 58% 39% 0% 2% 1% 105.3% -5.3%
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  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  Market Share of Total Load  Day Ahead Market  Balancing Energy +	14,877,279 58% 1% 38% 0% 1% -878,126 -110% 9% 1% 0% 4% -3%	13,473,786 57% 1% 40% 0% 2% 0% -816,828 -111% 7% 1% 0% 3% 0% 56% 42% 0% 2% 0% 0%	13,590,456 58% 0% 40% 0% 2% 1896,684 -110% 7% 14% 0% 3% -1% 55% 43% 0% 2% 107.1%	12,482,692 59% 1% 38% 0% 2% -371,022 -126% 20% 4% 0% 7% -4% 59% 39% 0% 2% 1%	13,324,441 61% 1% 36% 0% 1% -31,455 -561% 347% 107% 0% -46% 61% 36% 0% 2% 1%	14,898,725 63% 1% 35% 0% 1% -528,764 -129% 23% 8% 0% 36% -5% 62% 36% 0% 1% 1%	17,946,019 65% 1% 32% 0% 1% -579,200 -126% 6% 0% 2% 0% 65% 33% 0% 1% 1%	17,185,445 63% 1% 34% 0% 1% -528,885 -138% 30% 4% 0% 2% 2% 63% 35% 0% 1% 1%	14,262,425 61% 0% 37% 0% 1% 0% -695,280 -121% 13% 4% 0% 3% 1% 59% 39% 0% 1% 15.1%	13,354,729 60% 1% 38% 0% 1% 0% -752,624 -126% 20% 3% 0% 3% 1% 58% 40% 0% 2% 0% 106.0%	12,839,137 62% 3% 33% 0% 1% 146 13,283 -1421% 1411% 0% 135% -32% 65% 33% 0% 2% 1%	14,719,983 57% 3% 37% 0% 1% -737,059 -108% 7% 0% 0% 3% -2% 58% 39% 0% 2% 1%

<sup>+</sup> 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.

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

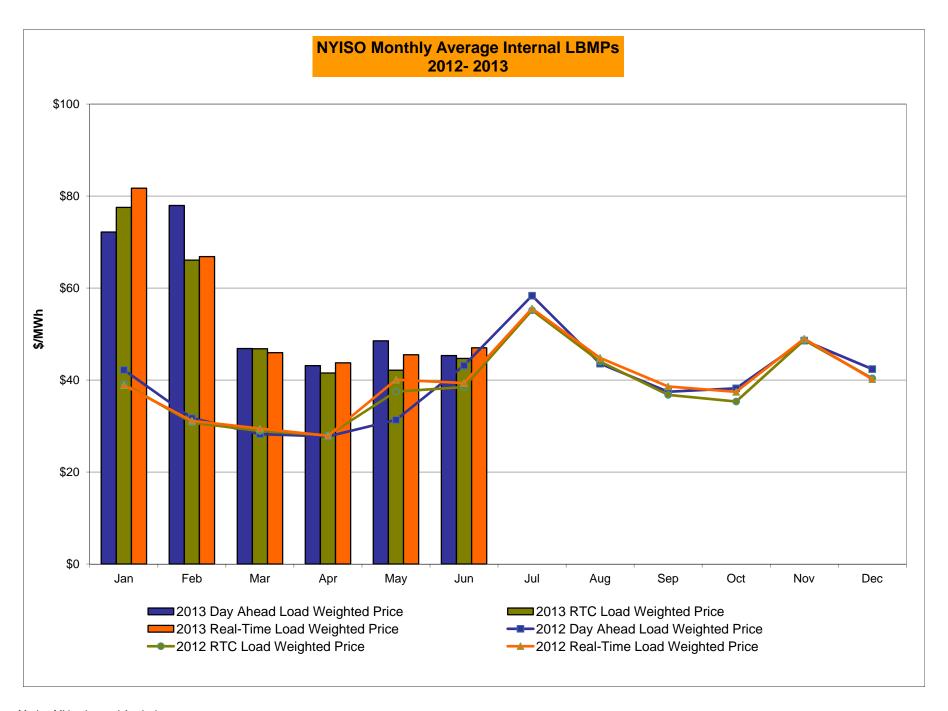
#### NYISO Markets 2013 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August September	October November December
DAY AHEAD LBMP									
Price *	\$69.17	\$75.82	\$45.97	\$42.21	\$45.87	\$42.66			
Standard Deviation	\$47.21	\$29.98	\$9.40	\$7.84	\$18.77	\$17.98			
Load Weighted Price **	\$72.17	\$77.95	\$46.85	\$43.13	\$48.52	\$45.32			
RTC LBMP									
Price *	\$73.69	\$64.15	\$45.75	\$40.50	\$39.51	\$42.00			
Standard Deviation	\$88.27	\$36.96	\$22.62	\$14.79	\$24.44	\$30.96			
Load Weighted Price **	\$77.52	\$66.07	\$46.79	\$41.52	\$42.14	\$44.70			
REAL TIME LBMP									
Price *	\$76.47	\$64.87	\$45.01	\$42.74	\$42.32	\$43.93			
Standard Deviation	\$83.80	\$38.96	\$16.27	\$15.96	\$26.99	\$34.72			
Load Weighted Price **	\$81.71	\$66.83	\$45.94	\$43.73	\$45.50	\$47.00			
Average Daily Energy Sendout/Month GWh	453	453	429	398	407	469			

#### NYISO Markets 2012 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August S	<u>September</u>	October I	November [	<u>December</u>
DAY AHEAD LBMP	-						-	-				
Price *	\$40.91	\$31.15	\$27.44	\$26.88	\$29.79	\$38.71	\$53.95	\$41.17	\$35.74	\$37.10	\$47.31	\$41.47
Standard Deviation	\$15.62	\$6.23	\$7.00	\$7.04	\$10.22	\$31.58	\$32.19	\$15.94	\$11.26	\$8.21	\$11.52	\$10.18
Load Weighted Price **	\$42.20	\$31.73	\$28.25	\$27.72	\$31.33	\$43.17	\$58.33	\$43.57	\$37.44	\$38.19	\$48.58	\$42.38
RTC LBMP												
Price *	\$37.93	\$30.31	\$28.15	\$27.19	\$34.27	\$34.58	\$51.05	\$41.79	\$34.76	\$34.11	\$46.72	\$39.13
Standard Deviation	\$23.43	\$7.26	\$22.87	\$15.67	\$46.03	\$57.26	\$60.86	\$22.90	\$23.14	\$19.02	\$33.25	\$22.23
Load Weighted Price **	\$39.19	\$30.75	\$28.93	\$27.97	\$37.49	\$38.48	\$55.17	\$44.03	\$36.77	\$35.33	\$48.69	\$40.37
REAL TIME LBMP												
Price *	\$37.35	\$30.54	\$28.47	\$27.00	\$35.22	\$34.29	\$50.68	\$41.95	\$36.05	\$36.24	\$47.35	\$39.17
Standard Deviation	\$23.75	\$9.77	\$20.94	\$15.14	\$56.38	\$55.53	\$51.60	\$23.86	\$26.89	\$14.43	\$27.30	\$14.67
Load Weighted Price **	\$38.88	\$31.14	\$29.44	\$27.89	\$40.06	\$39.34	\$55.54	\$44.81	\$38.59	\$37.43	\$48.98	\$40.19
Average Daily Energy Sendout/Month GWh	443	431	407	396	420	471	551	529	447	398	410	434

<sup>Average zonal load weighted prices.
Average zonal load weighted prices, load weighted in each hour.</sup> 

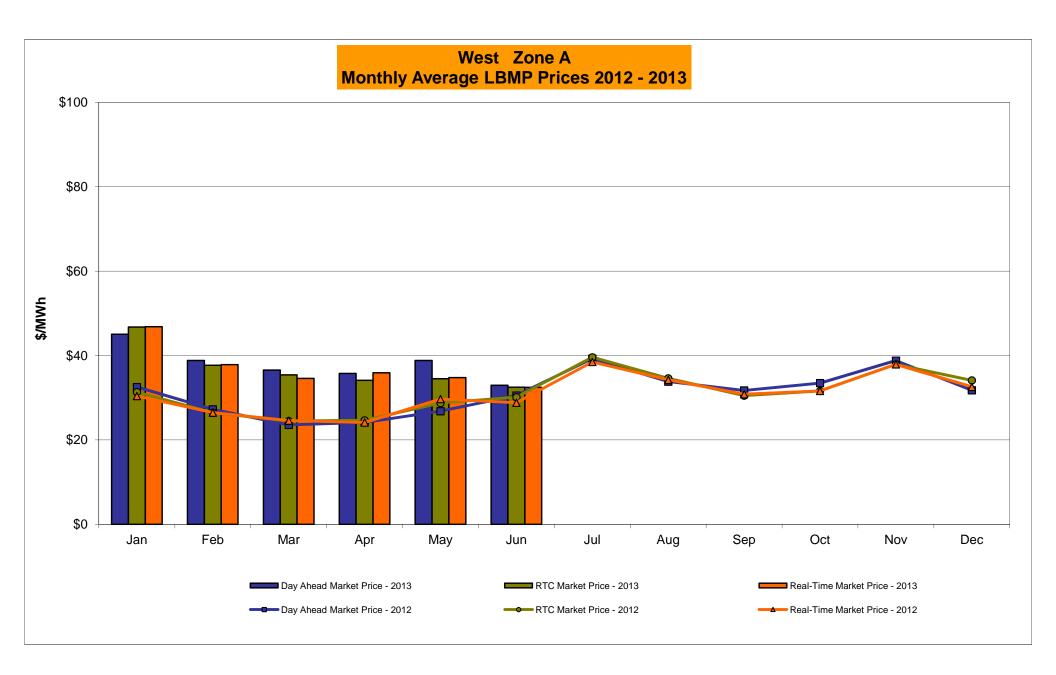


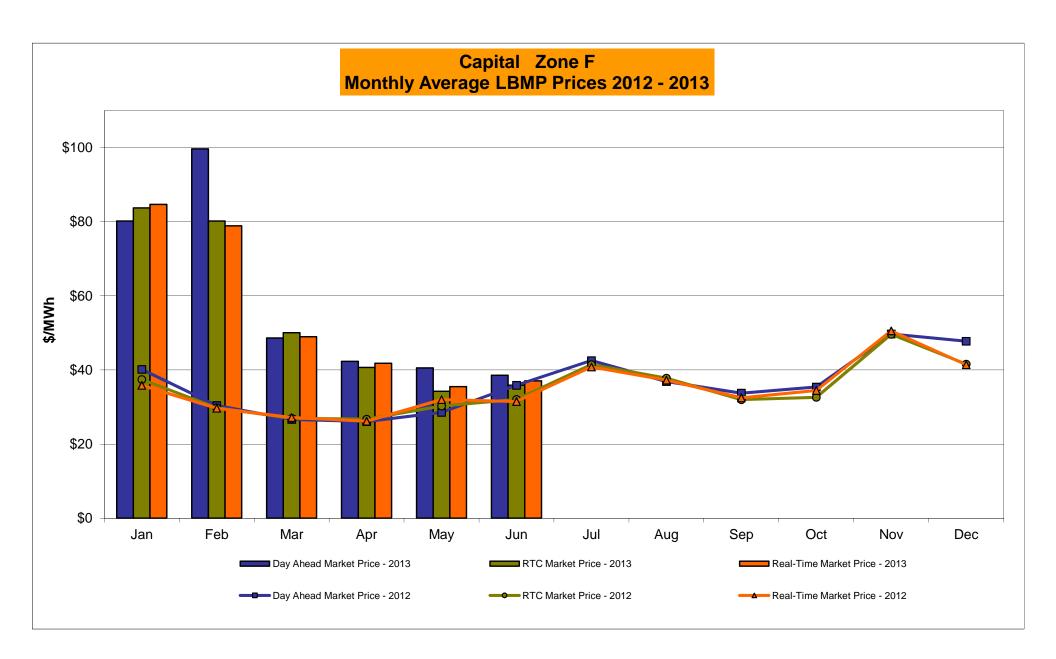
#### June 2013 Zonal LBMP Statistics for NYISO (\$/MWh)

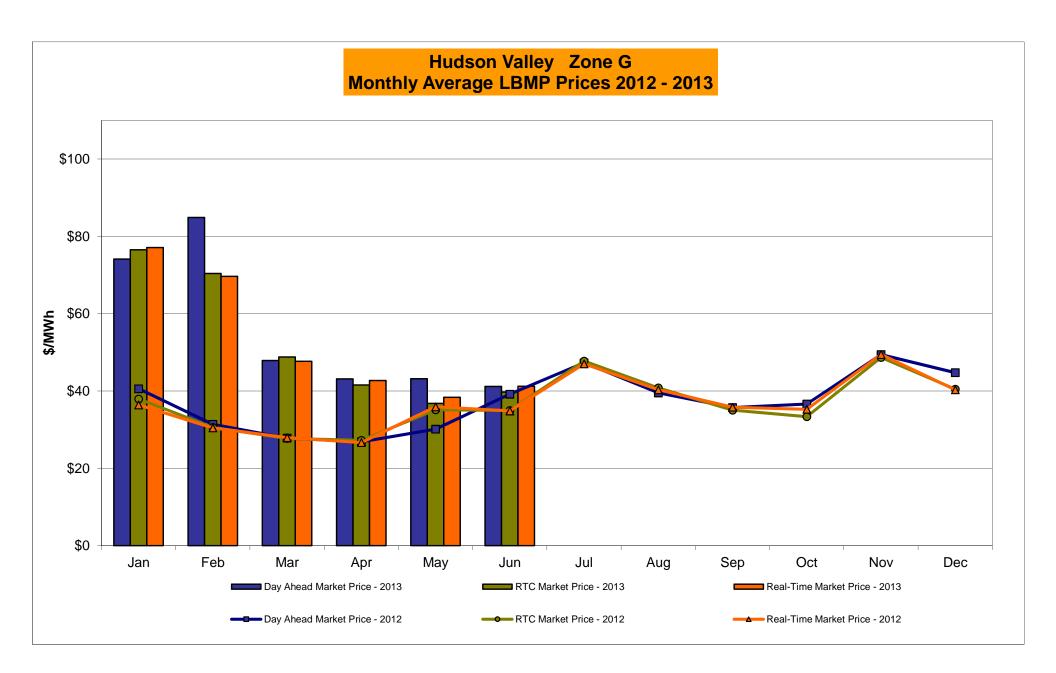
	WEST Zone A	GENESEE Zone B	NORTH Zone D	CENTRAL  Zone C	MOHAWK VALLEY Zone E	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE Zone I	NEW YORK CITY Zone J	LONG ISLAND Zone K
DAY AHEAD LBMP	<u> </u>										
Unweighted Price *	32.95	33.15	31.22	34.09	34.68	38.56	41.18	41.68	41.71	43.65	62.00
Standard Deviation	8.19	7.81	7.50	8.33	8.72	13.28	14.55	15.51	15.53	15.91	50.87
RTC LBMP											
Unweighted Price *	32.50	31.77	30.20	32.55	33.05	35.90	39.74	40.36	40.48	42.07	66.92
Standard Deviation	34.92	21.05	19.52	23.28	22.48	24.73	30.01	31.76	31.94	32.42	70.80
REAL TIME LBMP											
Unweighted Price *	32.45	32.78	31.23	33.51	34.11	37.07	41.24	41.90	42.09	43.89	71.17
Standard Deviation	26.76	25.99	25.95	27.80	27.77	29.43	33.28	34.55	34.78	35.18	81.50
	ONTARIO	HYDRO QUEBEC	HYDRO QUEBEC		NEW	CROSS SOUND	NORTHPORT-				
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE	LINDEN VFT	Dennison	
	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	Controllable	
	-	QUEBEC	QUEBEC	PJM Zone P		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	
Unweighted Price *	Zone O 32.02	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export)  Zone M  31.35	<b>Zone P</b> 36.69	ENGLAND  Zone N  39.53	SOUND CABLE Controllable Line	NORWALK Controllable Line 44.97	Controllable Line 58.41	Controllable Line 41.96	Controllable Line 30.77	
	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	
Unweighted Price *	Zone O 32.02	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export)  Zone M  31.35	<b>Zone P</b> 36.69	ENGLAND  Zone N  39.53	SOUND CABLE Controllable Line	NORWALK Controllable Line 44.97	Controllable Line 58.41	Controllable Line 41.96	Controllable Line 30.77	
Unweighted Price * Standard Deviation	Zone O 32.02	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export)  Zone M  31.35	<b>Zone P</b> 36.69	ENGLAND  Zone N  39.53	SOUND CABLE Controllable Line	NORWALK Controllable Line 44.97	Controllable Line 58.41	Controllable Line 41.96	Controllable Line 30.77	
Unweighted Price * Standard Deviation  RTC LBMP	Zone O 32.02 7.07	QUEBEC (Wheel) Zone M 31.91 7.84	QUEBEC (Import/Export)  Zone M  31.35 7.86	Zone P 36.69 10.85	<b>Zone N</b> 39.53 13.42	SOUND CABLE Controllable Line 59.02 47.74	NORWALK Controllable Line 44.97 15.76	Controllable Line 58.41 47.11	Controllable Line 41.96 13.80	Controllable Line 30.77 7.30	
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	32.02 7.07 29.76 9.97	QUEBEC (Wheel) Zone M 31.91 7.84 28.97 12.78	QUEBEC (Import/Export)  Zone M  31.35 7.86  28.73 12.72	Zone P  36.69 10.85  34.57 14.94	<b>ENGLAND Zone N</b> 39.53 13.42  36.51 15.26	\$OUND CABLE Controllable Line 59.02 47.74 62.51 61.26	NORWALK <u>Controllable</u> <u>Line</u> 44.97 15.76 61.72 60.89	58.41 47.11 61.79 60.60	41.96 13.80 37.94 22.25	29.03 11.10	
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation	32.02 7.07	QUEBEC (Wheel) Zone M 31.91 7.84 28.97	QUEBEC (Import/Export)  Zone M  31.35 7.86	Zone P 36.69 10.85	<b>ENGLAND Zone N</b> 39.53 13.42  36.51	SOUND CABLE Controllable Line 59.02 47.74	NORWALK Controllable Line 44.97 15.76	58.41 47.11	41.96 13.80	29.03	

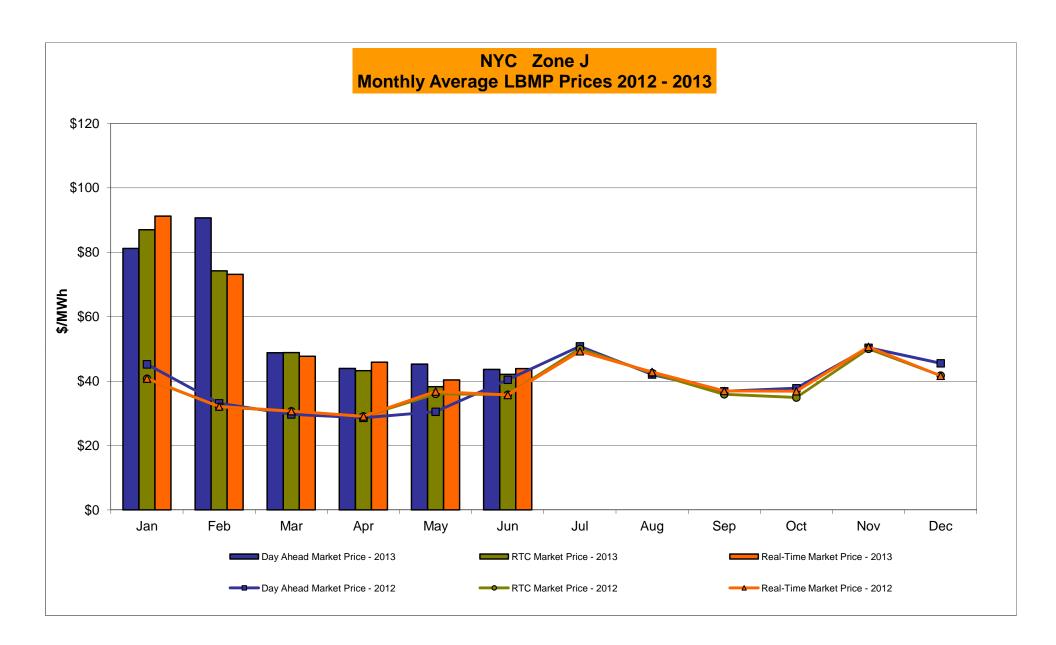
Market Mitigation and Analysis Prepared: 7/9/2013 9:22 AM

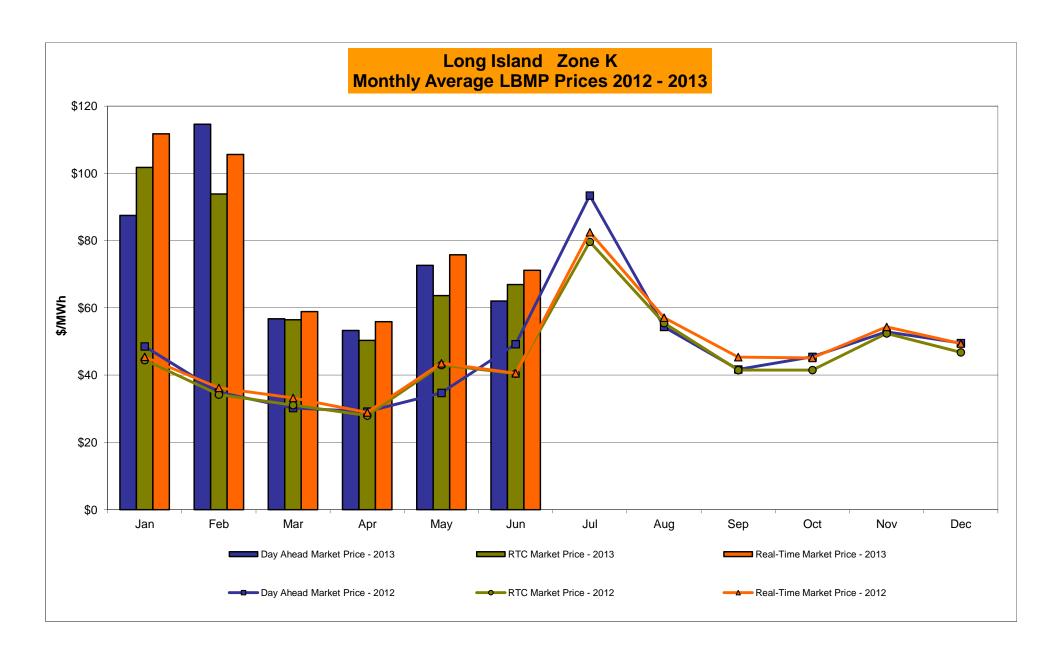
<sup>\*</sup> Straight LBMP averages

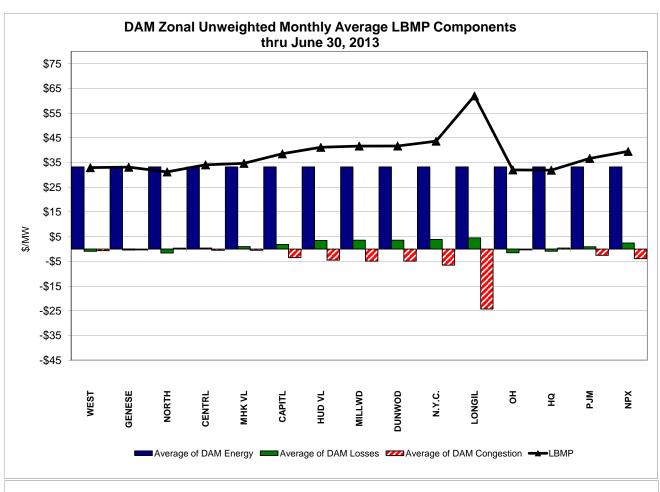


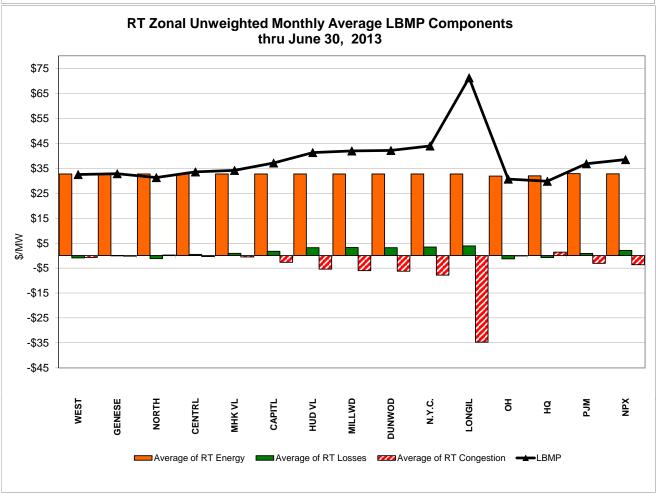




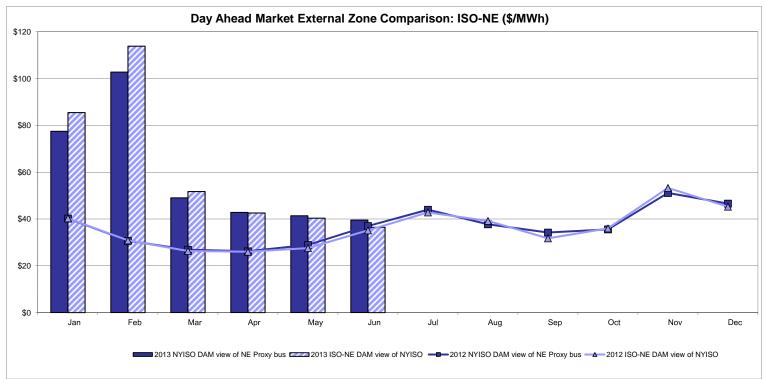


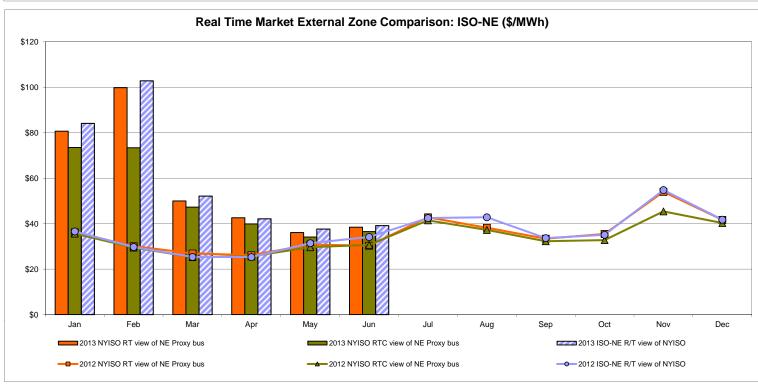




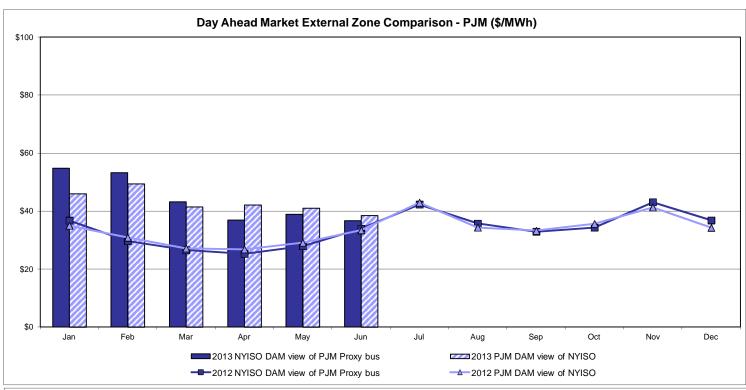


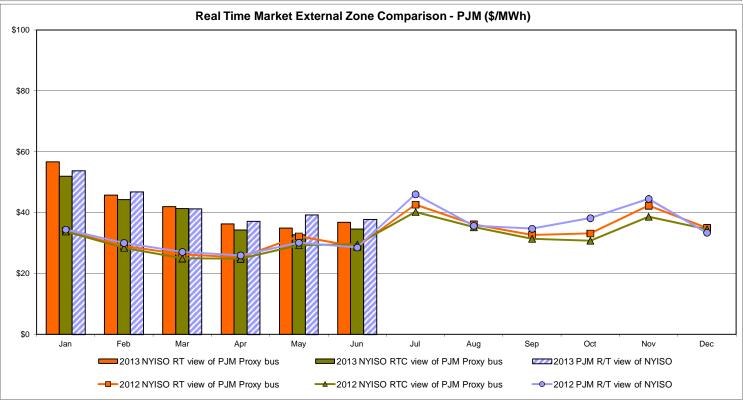
#### **External Comparison ISO-New England**



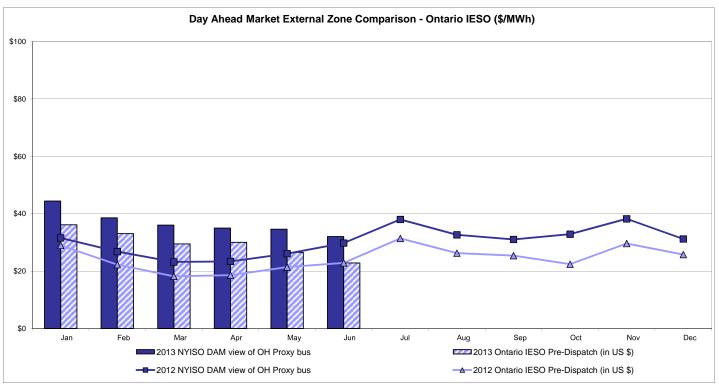


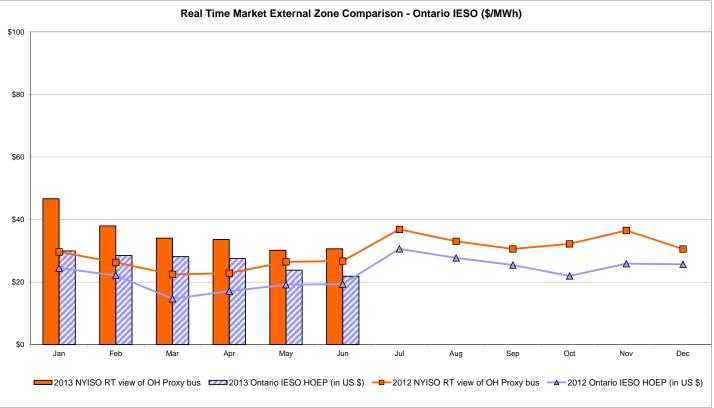
#### **External Comparison PJM**





#### **External Comparison Ontario IESO**

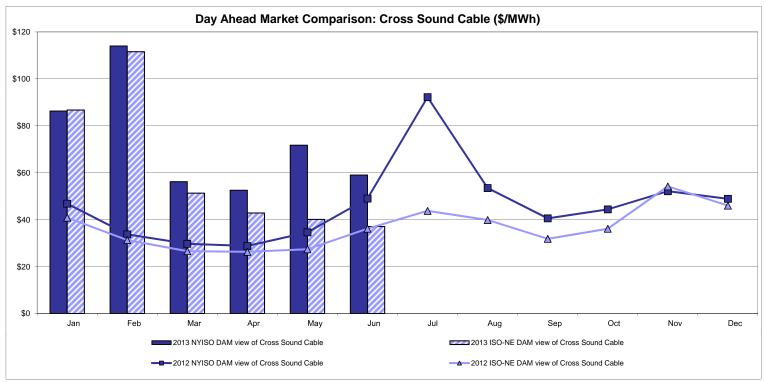


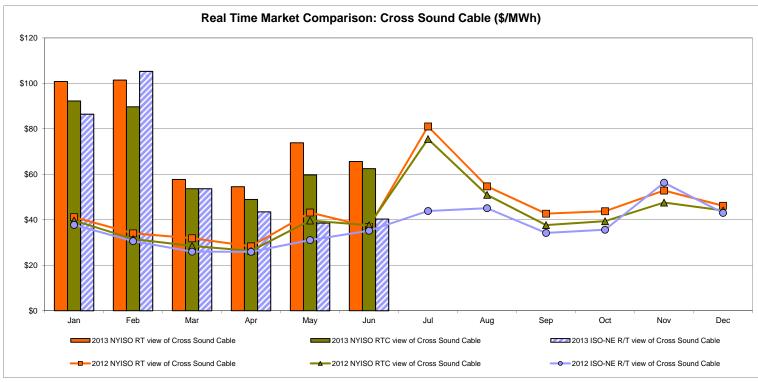


Notes: Exchange factor used for April 2013 was 0.9697 to US \$

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

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





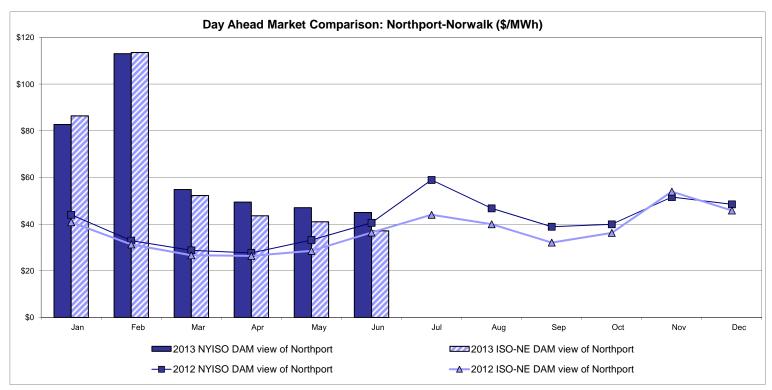
#### Note:

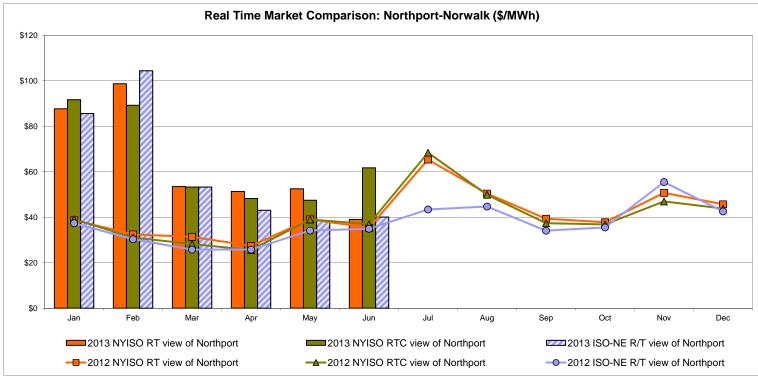
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

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





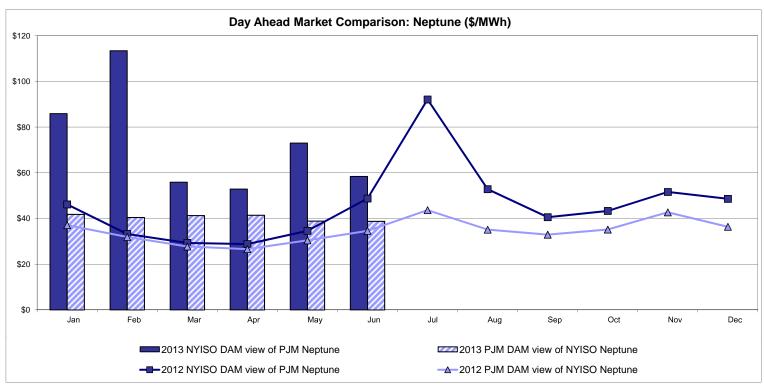
#### Note:

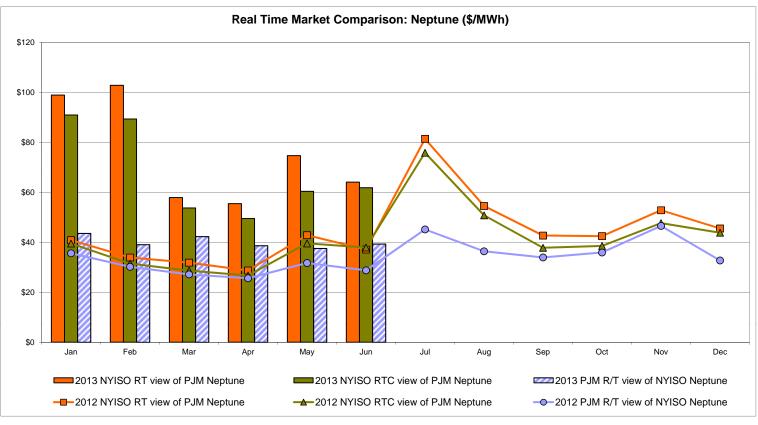
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

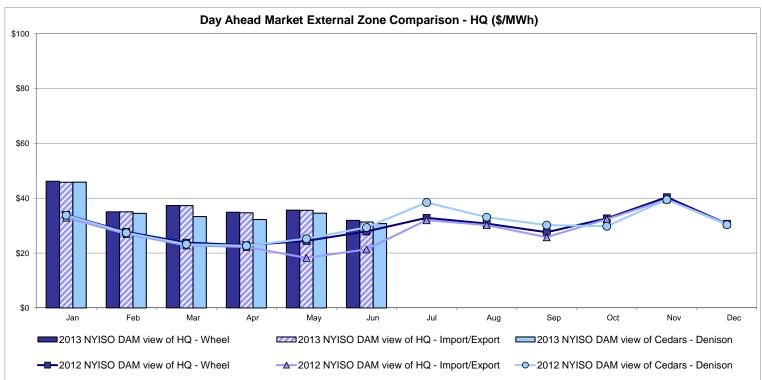
The DAM and R/T prices at the 1385 interface are used for NYISO.

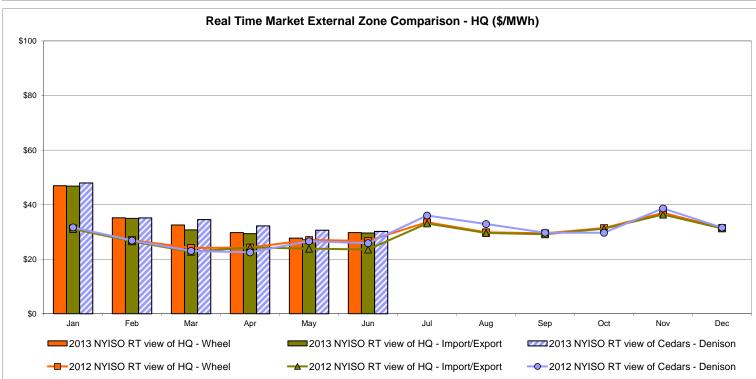
#### **External Controllable Line: Neptune (PJM)**





#### **External Comparison Hydro-Quebec**

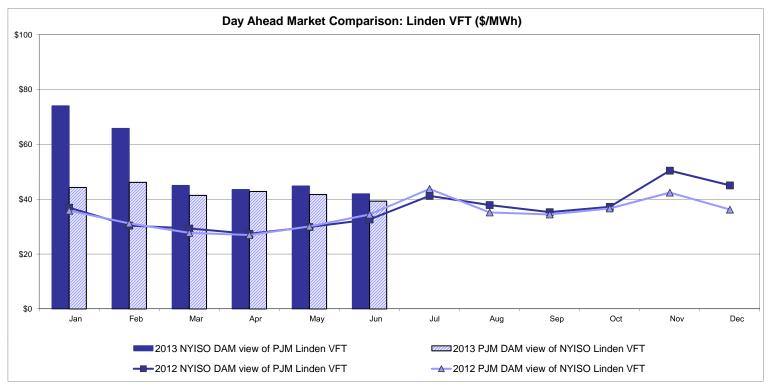


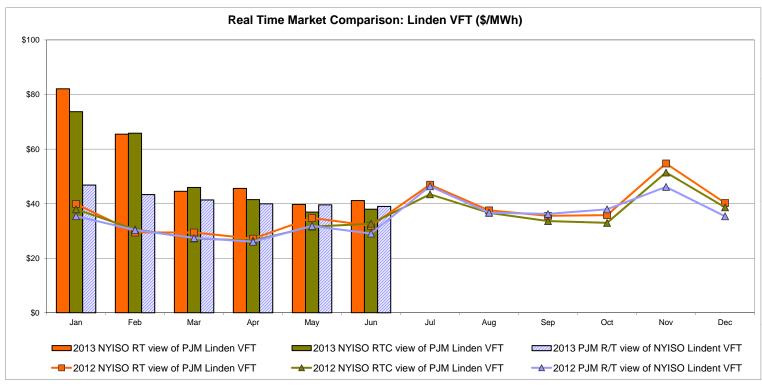


Note:

Hydro-Quebec Prices are unavailable.

#### **External Controllable Line: Linden VFT (PJM)**



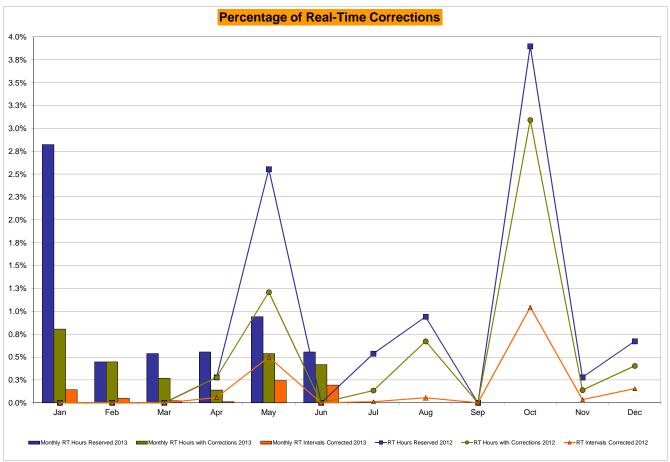


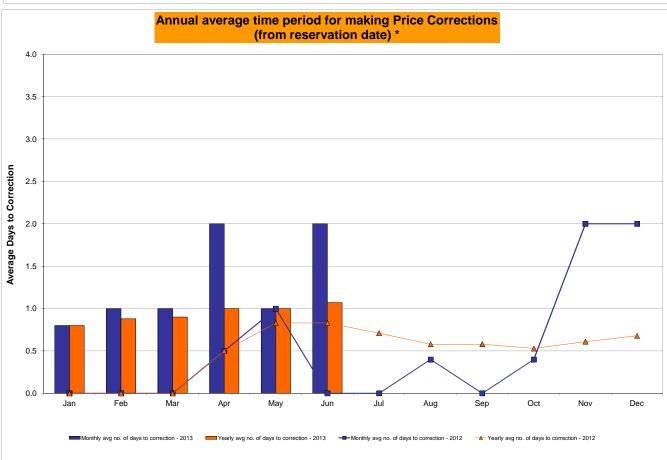
#### **NYISO Real Time Price Correction Statistics**

2013 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	<u>October</u>	November	<u>December</u>
Number of hours with corrections	in the month	6	3	2	1	4	3						
Number of hours	in the month	744	672	743	720	744	720						
% of hours with corrections	in the month	0.81%	0.45%	0.27%	0.14%	0.54%	0.42%						
% of hours with corrections	vear-to-date	0.81%	0.64%	0.51%	0.42%	0.44%	0.44%						
Interval Corrections	year-to-date	0.0176	0.04 /6	0.5176	0.4276	0.44 /0	0.4476						
Number of intervals corrected	in the month	13	4	2	1	22	17						
Number of intervals	in the month	9,104	8,230	9.026	8,727	9,083	8,740						
% of intervals corrected	in the month	0.14%	0.05%	0.02%	0.01%	0.24%	0.19%						
% of intervals corrected	year-to-date	0.14%	0.10%	0.07%	0.06%	0.10%	0.11%						
Hours Reserved	,												_
Number of hours reserved	in the month	21	3	4	4	7	4						
Number of hours	in the month	744	672	743	720	744	720						
% of hours reserved	in the month	2.82%	0.45%	0.54%	0.56%	0.94%	0.56%						
% of hours reserved	year-to-date	2.82%	1.69%	1.30%	1.11%	1.08%	0.99%						
Days to Correction *	7												
Avg. number of days to correction	in the month	0.80	1.00	1.00	2.00	1.00	2.00						
Avg. number of days to correction	year-to-date	0.80	0.88	0.90	1.00	1.00	1.07						
Days Without Corrections													
Days without corrections	in the month	26	25	29	29	28	29						
Days without corrections	year-to-date	26	51	80	109	137	166						
2012		January	February	March	Anril	May	June	July	August	Sentember	October	November	December
2012 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
2012 Hour Corrections Number of hours with corrections	in the month	<u>January</u> 0	<u>February</u> 0	March 0	April 2	<u>May</u> 9	<u>June</u> 0	<u>July</u> 1	August 5	September 0	October 23	November 1	<u>December</u>
Hour Corrections	in the month	·				<del></del>							
Hour Corrections  Number of hours with corrections		0	0	0	2	9	0	1	5	0	23	1	3
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	0 696 0.00%	0 743 0.00%	2 720 0.28%	9 744 1.21%	0 720 0.00%	1 744 0.13%	5 744 0.67%	0 720 0.00%	23 744 3.09%	1 721 0.14%	3 744 0.40%
Hour Corrections  Number of hours with corrections  Number of hours	in the month	0 744	0 696	0 743	2 720	9 744	0 720	1 744	5 744	0 720	23 744	1 721	3 744
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	0 744 0.00%	0 696 0.00%	0 743 0.00%	2 720 0.28%	9 744 1.21%	0 720 0.00%	1 744 0.13%	5 744 0.67%	0 720 0.00%	23 744 3.09%	1 721 0.14%	3 744 0.40%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	0 744 0.00% 0.00%	0 696 0.00% 0.00%	0 743 0.00% 0.00%	2 720 0.28% 0.07%	9 744 1.21% 0.30%	0 720 0.00% 0.25%	1 744 0.13% 0.23%	5 744 0.67% 0.29%	0 720 0.00% 0.26%	23 744 3.09% 0.55%	1 721 0.14% 0.51%	3 744 0.40% 0.50%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date	0 744 0.00% 0.00%	0 696 0.00% 0.00%	0 743 0.00% 0.00%	2 720 0.28% 0.07%	9 744 1.21% 0.30%	0 720 0.00% 0.25%	1 744 0.13% 0.23%	5 744 0.67% 0.29%	0 720 0.00% 0.26%	23 744 3.09% 0.55%	1 721 0.14% 0.51%	3 744 0.40% 0.50%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date  in the month in the month	0 744 0.00% 0.00% 0 9,025	0 696 0.00% 0.00% 0 8,399	0 743 0.00% 0.00% 0 8,977	2 720 0.28% 0.07% 5 8,716	9 744 1.21% 0.30% 45 9,013	0 720 0.00% 0.25% 0 8,786	1 744 0.13% 0.23%	5 744 0.67% 0.29% 5 9,044	0 720 0.00% 0.26% 0 8,724	23 744 3.09% 0.55% 94 8,987	1 721 0.14% 0.51% 3 8,856	3 744 0.40% 0.50%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 0 9,025 0.00%	0 696 0.00% 0.00% 0 8,399 0.00%	0 743 0.00% 0.00% 0 8,977 0.00%	2 720 0.28% 0.07% 5 8,716 0.06%	9 744 1.21% 0.30% 45 9,013 0.50%	0 720 0.00% 0.25% 0 8,786 0.00%	1 744 0.13% 0.23% 1 9,100 0.01%	5 744 0.67% 0.29% 5 9,044 0.06%	0 720 0.00% 0.26% 0 8,724 0.00%	23 744 3.09% 0.55% 94 8,987 1.05%	1 721 0.14% 0.51% 3 8,856 0.03%	3 744 0.40% 0.50% 14 9,036 0.15%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 0 9,025 0.00%	0 696 0.00% 0.00% 0 8,399 0.00%	0 743 0.00% 0.00% 0 8,977 0.00%	2 720 0.28% 0.07% 5 8,716 0.06%	9 744 1.21% 0.30% 45 9,013 0.50%	0 720 0.00% 0.25% 0 8,786 0.00%	1 744 0.13% 0.23% 1 9,100 0.01%	5 744 0.67% 0.29% 5 9,044 0.06%	0 720 0.00% 0.26% 0 8,724 0.00%	23 744 3.09% 0.55% 94 8,987 1.05%	1 721 0.14% 0.51% 3 8,856 0.03%	3 744 0.40% 0.50% 14 9,036 0.15%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date	0 744 0.00% 0.00% 0 9,025 0.00%	0 696 0.00% 0.00% 0 8,399 0.00%	0 743 0.00% 0.00% 0 8,977 0.00%	2 720 0.28% 0.07% 5 8,716 0.06% 0.01%	9 744 1.21% 0.30% 45 9,013 0.50% 0.11%	0 720 0.00% 0.25% 0 8,786 0.00% 0.09%	1 744 0.13% 0.23% 1 9,100 0.01% 0.08%	5 744 0.67% 0.29% 5 9,044 0.06% 0.08%	0 720 0.00% 0.26% 0 8,724 0.00% 0.07%	23 744 3.09% 0.55% 94 8,987 1.05% 0.17%	1 721 0.14% 0.51% 3 8,856 0.03% 0.16%	3 744 0.40% 0.50% 14 9,036 0.15% 0.16%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	0 744 0.00% 0.00% 0 9,025 0.00% 0.00%	0 696 0.00% 0.00% 0 8,399 0.00% 0.00%	0 743 0.00% 0.00% 0 8,977 0.00% 0.00%	2 720 0.28% 0.07% 5 8,716 0.06% 0.01%	9 744 1.21% 0.30% 45 9,013 0.50% 0.11%	0 720 0.00% 0.25% 0 8,786 0.00% 0.09%	1 744 0.13% 0.23% 1 9,100 0.01% 0.08%	5 744 0.67% 0.29% 5 9,044 0.06% 0.08%	0 720 0.00% 0.26% 0 8,724 0.00% 0.07%	23 744 3.09% 0.55% 94 8,987 1.05% 0.17%	1 721 0.14% 0.51% 3 8,856 0.03% 0.16%	3 744 0.40% 0.50% 14 9,036 0.15% 0.16%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	0 744 0.00% 0.00% 0 9,025 0.00% 0.00%	0 696 0.00% 0.00% 0 8,399 0.00% 0.00%	0 743 0.00% 0.00% 0 8,977 0.00% 0.00%	2 720 0.28% 0.07% 5 8,716 0.06% 0.01%	9 744 1.21% 0.30% 45 9,013 0.50% 0.11%	0 720 0.00% 0.25% 0 8,786 0.00% 0.09%	1 744 0.13% 0.23% 1 9,100 0.01% 0.08% 4 744	5 744 0.67% 0.29% 5 9,044 0.06% 0.08%	0 720 0.00% 0.26% 0 8,724 0.00% 0.07%	23 744 3.09% 0.55% 94 8,987 1.05% 0.17% 29 744	1 721 0.14% 0.51% 3 8,856 0.03% 0.16% 2 721	3 744 0.40% 0.50% 14 9,036 0.15% 0.16%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,025 0.00% 0.00%	0 696 0.00% 0.00% 0 8,399 0.00% 0.00%	0 743 0.00% 0.00% 0 8,977 0.00% 0.00%	2 720 0.28% 0.07% 5 8,716 0.06% 0.01% 2 720 0.28%	9 744 1.21% 0.30% 45 9,013 0.50% 0.11% 19 744 2.55%	0 720 0.00% 0.25% 0 8,786 0.00% 0.09% 0 720 0.00%	1 744 0.13% 0.23% 1 9,100 0.01% 0.08% 4 744 0.54%	5 744 0.67% 0.29% 5 9,044 0.06% 0.08% 7 744 0.94%	0 720 0.00% 0.26% 0 8,724 0.00% 0.07% 0 720 0.00%	23 744 3.09% 0.55% 94 8,987 1.05% 0.17% 29 744 3.90% 0.83%	1 721 0.14% 0.51% 3 8,856 0.03% 0.16% 2 721 0.28%	3 744 0.40% 0.50% 14 9,036 0.15% 0.16% 5 744 0.67%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,025 0.00% 0.00% 0 744 0.00% 0.00%	0 696 0.00% 0.00% 0 8,399 0.00% 0.00%	0 743 0.00% 0.00% 0 8,977 0.00% 0.00%	2 720 0.28% 0.07% 5 8,716 0.06% 0.01% 2 720 0.28% 0.07%	9 744 1.21% 0.30% 45 9,013 0.50% 0.11%  19 744 2.55% 0.58%  1.00	0 720 0.00% 0.25% 0 8,786 0.00% 0.09% 0 720 0.00% 0.48%	1 744 0.13% 0.23% 1 9,100 0.01% 0.08% 4 744 0.54%	5 744 0.67% 0.29% 5 9,044 0.06% 0.08% 7 744 0.94% 0.55%	0 720 0.00% 0.26% 0 8,724 0.00% 0.07% 0 720 0.00% 0.49%	23 744 3.09% 0.55% 94 8,987 1.05% 0.17% 29 744 3.90% 0.83%	1 721 0.14% 0.51% 3 8,856 0.03% 0.16% 2 721 0.28% 0.78%	3 744 0.40% 0.50% 14 9,036 0.15% 0.16% 5 744 0.67% 0.77%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  Your hours reserved Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	0 744 0.00% 0.00% 0 9,025 0.00% 0.00% 0	0 696 0.00% 0.00% 0 8,399 0.00% 0.00% 0 696 0.00%	0 743 0.00% 0.00% 0 8,977 0.00% 0.00%	2 720 0.28% 0.07% 5 8,716 0.06% 0.01% 2 720 0.28% 0.07%	9 744 1.21% 0.30% 45 9,013 0.50% 0.11%  19 744 2.55% 0.58%	0 720 0.00% 0.25% 0 8,786 0.00% 0.09% 0 720 0.00% 0.48%	1 744 0.13% 0.23% 1 9,100 0.01% 0.08% 4 744 0.54% 0.49%	5 744 0.67% 0.29% 5 9,044 0.06% 0.08% 7 744 0.94% 0.55%	0 720 0.00% 0.26% 0 8,724 0.00% 0.07% 0 720 0.00% 0.49%	23 744 3.09% 0.55% 94 8,987 1.05% 0.17% 29 744 3.90% 0.83%	1 721 0.14% 0.51% 3 8,856 0.03% 0.16% 2 721 0.28% 0.78%	3 744 0.40% 0.50% 14 9,036 0.15% 0.16% 5 744 0.67% 0.77%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Mumber of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved % of hours reserved % of hours reserved Number of days to correction Avg. number of days to correction Days Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 0 9,025 0.00% 0.00% 0.00%	0 696 0.00% 0.00% 0 8,399 0.00% 0.00% 0.00%	0 743 0.00% 0.00%  0 8,977 0.00%  0 743 0.00%  0.00%  0.00%	2 720 0.28% 0.07%  5 8,716 0.06% 0.01%  2 720 0.28% 0.07%  0.50 0.50	9 744 1.21% 0.30% 45 9,013 0.50% 0.11% 19 744 2.55% 0.58% 1.00 0.83	0 720 0.00% 0.25%  0 8,786 0.00% 0.09%  0 720 0.00% 0.48%  0.00 0.83	1 744 0.13% 0.23% 1 9,100 0.01% 0.08% 4 744 0.54% 0.49%	5 744 0.67% 0.29% 5 9,044 0.06% 0.08% 7 744 0.94% 0.55% 0.40 0.58	0 720 0.00% 0.26% 0 8,724 0.00% 0.07% 0 720 0.00% 0.49%	23 744 3.09% 0.55% 94 8,987 1.05% 0.17% 29 744 3.90% 0.83% 0.40 0.53	1 721 0.14% 0.51% 3 8,856 0.03% 0.16% 2 721 0.28% 0.78% 2.00 0.61	3 744 0.40% 0.50% 14 9,036 0.15% 0.16% 5 744 0.67% 0.77% 2.00 0.68
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  Your hours reserved Avg. number of days to correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	0 744 0.00% 0.00% 0 9,025 0.00% 0.00% 0 744 0.00% 0.00%	0 696 0.00% 0.00% 0 8,399 0.00% 0.00% 0.00%	0 743 0.00% 0.00% 0 8,977 0.00% 0.00% 0 743 0.00% 0.00%	2 720 0.28% 0.07% 5 8,716 0.06% 0.01% 2 720 0.28% 0.07%	9 744 1.21% 0.30% 45 9,013 0.50% 0.11%  19 744 2.55% 0.58%  1.00	0 720 0.00% 0.25% 0 8,786 0.00% 0.09% 0 720 0.00% 0.48%	1 744 0.13% 0.23% 1 9,100 0.01% 0.08% 4 744 0.54% 0.49%	5 744 0.67% 0.29% 5 9,044 0.06% 0.08% 7 744 0.94% 0.55%	0 720 0.00% 0.26% 0 8,724 0.00% 0.07% 0 720 0.00% 0.49%	23 744 3.09% 0.55% 94 8,987 1.05% 0.17% 29 744 3.90% 0.83%	1 721 0.14% 0.51% 3 8,856 0.03% 0.16% 2 721 0.28% 0.78%	3 744 0.40% 0.50% 14 9,036 0.15% 0.16% 5 744 0.67% 0.77%

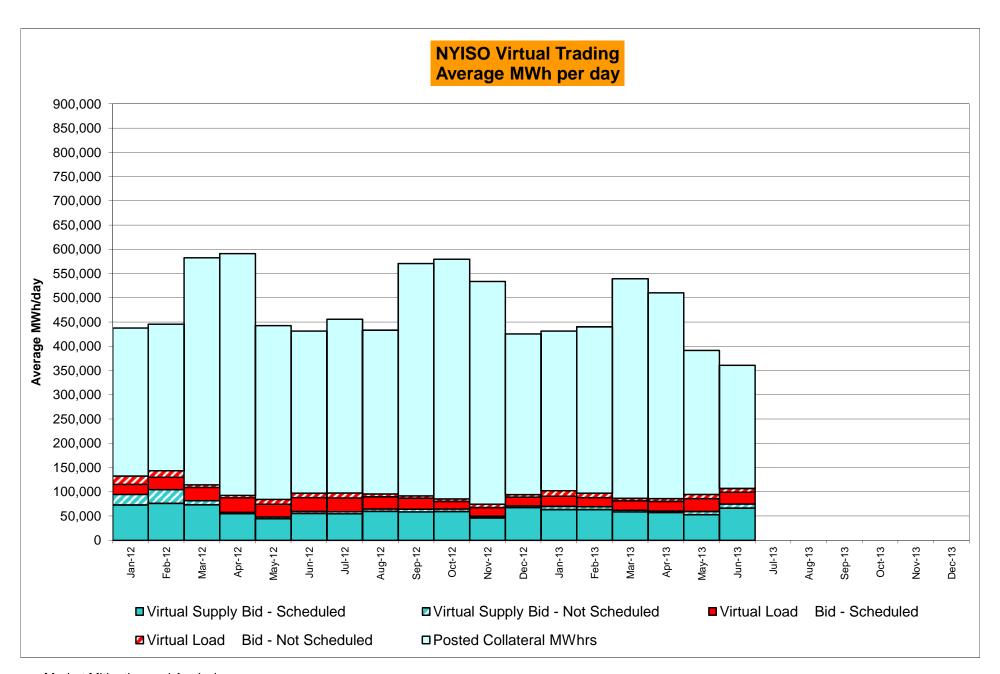
<sup>\*</sup> Calendar days from reservation date.

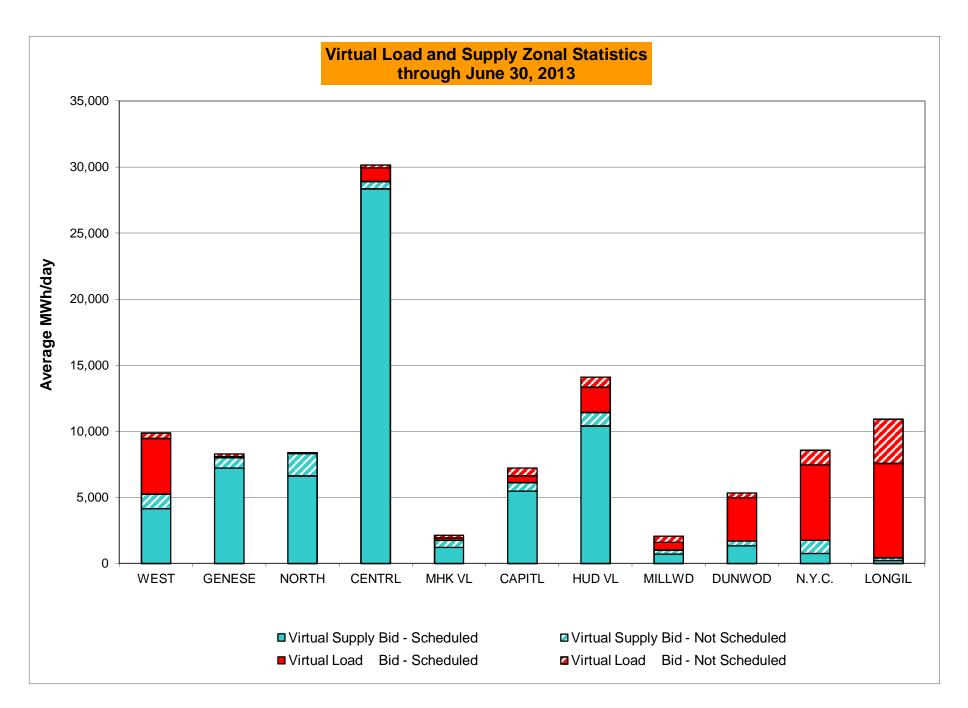
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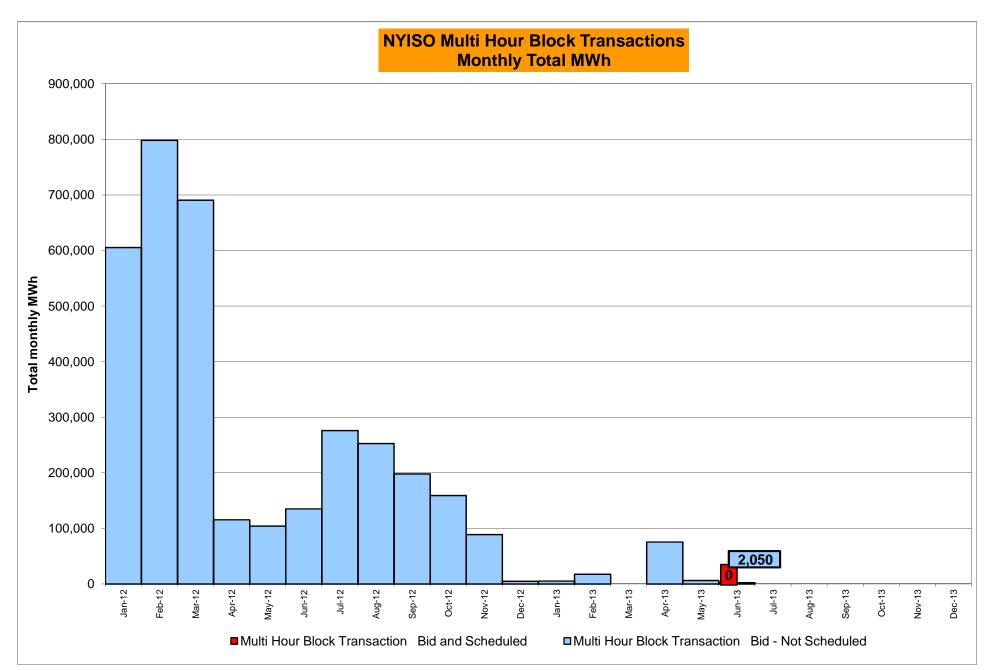


<sup>\*</sup> Calendar days from reservation date.

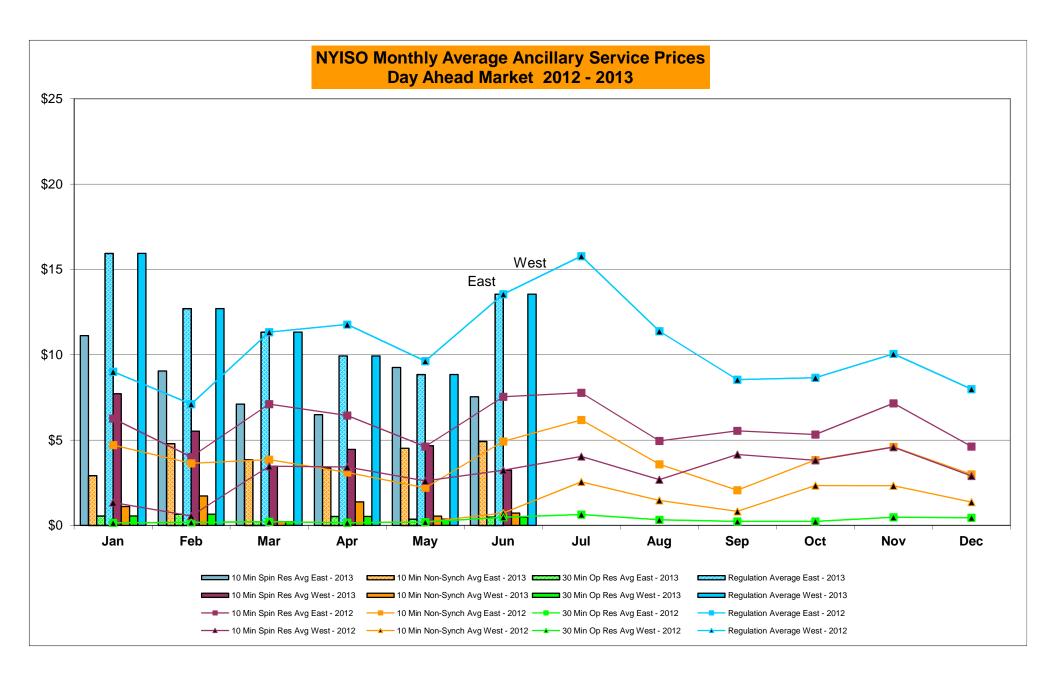


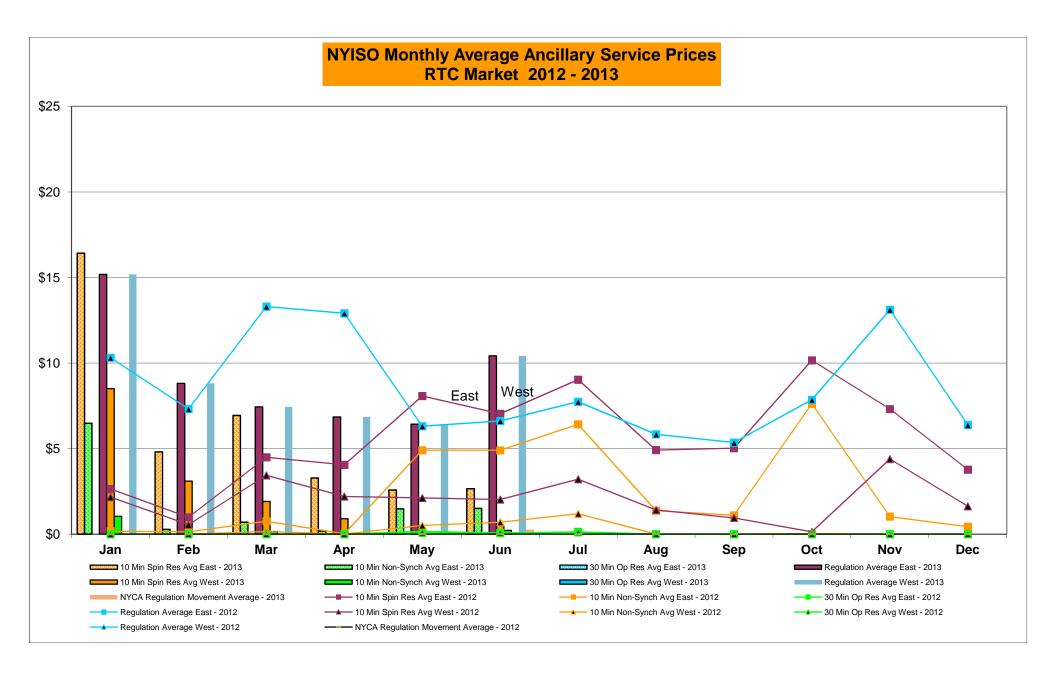


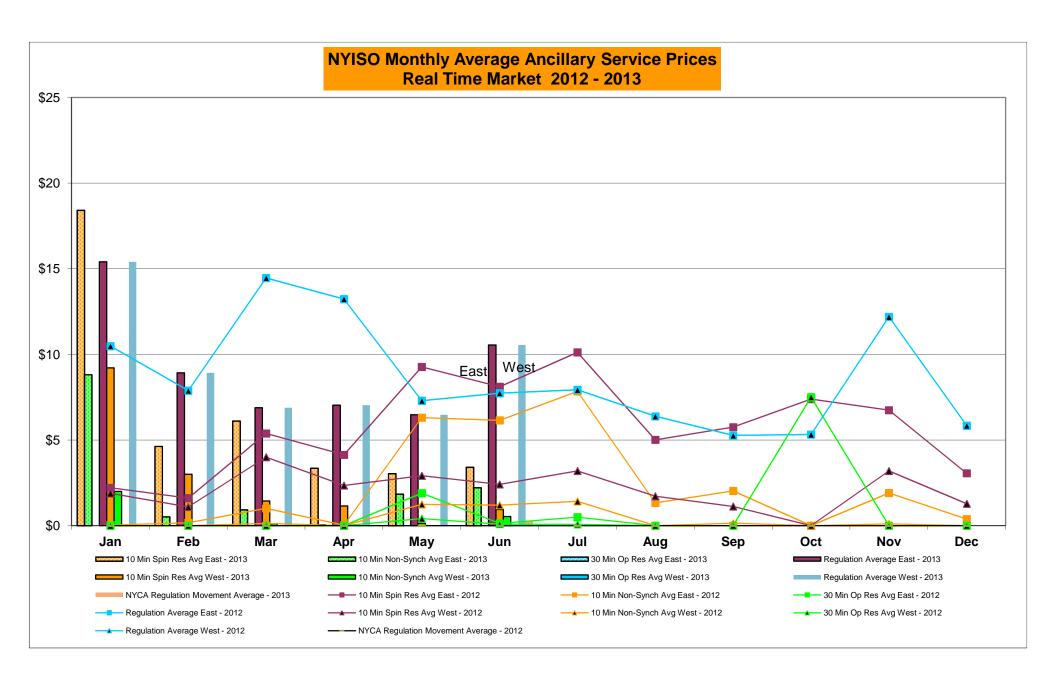
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2013 **Virtual Supply Bid** Virtual Load Bid Virtual Load Bid **Virtual Supply Bid** Virtual Load Bid Virtual Supply Bid Not Not Not Not Not Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Zone Date Zone WEST 5,393 4,402 409 MHK VL DUNWOD 1,682 Jan-13 880 Jan-13 617 477 695 273 Jan-13 410 859 491 Feb-13 3.366 263 3.940 151 Feb-13 480 324 370 72 Feb-13 448 294 2.570 1.216 Mar-13 3,221 70 4,824 401 Mar-13 733 72 455 32 Mar-13 698 249 1,630 270 Apr-13 3,771 549 3.702 236 Apr-13 250 25 740 56 Apr-13 394 621 2,361 242 398 May-13 6,533 717 2,963 415 May-13 150 1,140 198 May-13 2,255 600 1,359 258 Jun-13 4.209 425 4.163 1.085 Jun-13 196 193 1.227 523 Jun-13 3.272 336 1.362 354 Jul-13 Jul-13 Jul-13 Aug-13 Aug-13 Aug-13 Sep-13 Sep-13 Sep-13 Oct-13 Oct-13 Oct-13 Nov-13 Nov-13 Nov-13 Dec-13 Dec-13 Dec-13 GENESE 492 CAPITL N.Y.C. Jan-13 184 207 5,822 Jan-13 2,053 1,313 3,977 1,088 Jan-13 3,192 2,206 1,171 414 3,964 Feb-13 238 60 5.305 266 Feb-13 1.175 1.148 5.323 585 Feb-13 2.187 689 450 Mar-13 636 24 5,867 24 Mar-13 452 4,418 604 Mar-13 2,474 623 45 1,945 688 Apr-13 538 26 6.978 153 Apr-13 1.573 981 3.063 585 Apr-13 5.374 558 545 24 May-13 440 195 7,639 274 May-13 1,254 624 2,254 660 May-13 5,443 753 394 40 Jun-13 89 194 7.213 801 Jun-13 509 602 5.483 638 Jun-13 5.732 1.097 755 999 Jul-13 Jul-13 Jul-13 Aug-13 Aug-13 Aug-13 Sep-13 Sep-13 Sep-13 Oct-13 Oct-13 Oct-13 Nov-13 Nov-13 Nov-13 Dec-13 Dec-13 Dec-13 NORTH HUD VL LONGIL Jan-13 206 115 6,458 997 Jan-13 849 1,042 9,608 971 Jan-13 7,420 3,530 419 882 Feb-13 376 72 5,234 969 1,353 10,729 442 Feb-13 684 819 Feb-13 6,410 3,439 682 Mar-13 121 46 6.582 709 Mar-13 835 824 4.831 783 Mar-13 7.422 1.814 579 135 23 1,724 621 7,958 709 5,474 Apr-13 6 7,827 510 Apr-13 Apr-13 1,674 340 82 May-13 91 59 8,434 735 May-13 3.226 1,375 7.847 932 May-13 5.758 3.582 257 210 1,912 55 34 1,688 10,419 1,006 227 201 Jun-13 6,624 Jun-13 777 Jun-13 7,152 3,355 Jul-13 Jul-13 Jul-13 Aug-13 Aug-13 Aug-13 Sep-13 Sep-13 Sep-13 Oct-13 Oct-13 Oct-13 Nov-13 Nov-13 Nov-13 Dec-13 Dec-13 Dec-13 CENTRL MILLWD NYISO Jan-13 436 244 28.385 349 Jan-13 173 162 894 214 Jan-13 20.932 11.035 63.512 6.579 794 27,674 231 1,250 Feb-13 499 Feb-13 197 250 184 Feb-13 18,802 9,219 63,526 5,626 Mar-13 1.054 430 27.791 13 Mar-13 543 278 1.028 211 Mar-13 19.682 4.947 58.627 3.227 Apr-13 798 861 22,488 112 Apr-13 233 100 1,147 183 Apr-13 20,151 6,021 57,149 2,892 May-13 516 226 19,878 2,645 May-13 818 290 572 152 May-13 26,733 52,738 8,572 6,520 Jun-13 1,015 229 28,370 554 Jun-13 603 452 715 301 Jun-13 24,743 7,693 66,557 8,150 Jul-13 Jul-13 Jul-13 Aug-13 Aug-13 Aug-13 Sep-13 Sep-13 Sep-13 Oct-13 Oct-13 Oct-13 Nov-13 Nov-13 Nov-13 Dec-13 Dec-13 Dec-13



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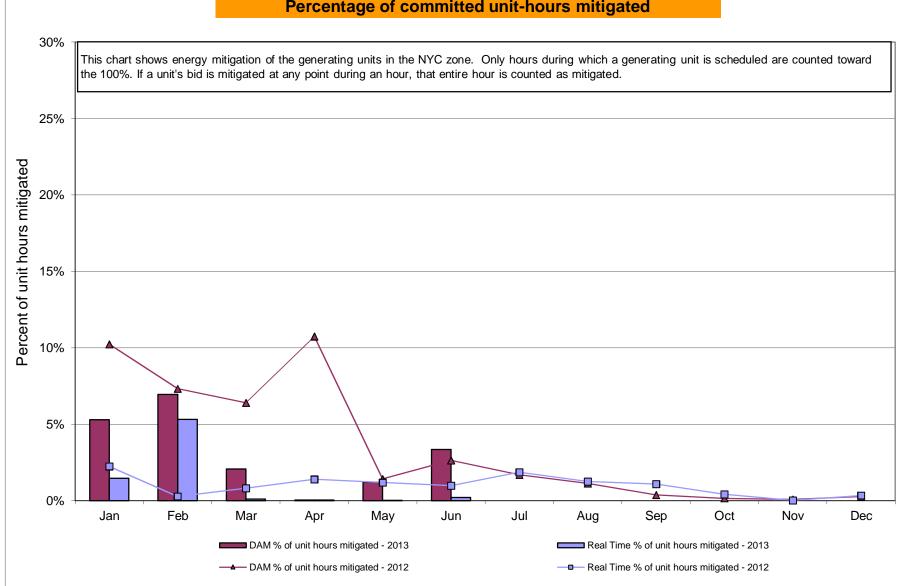


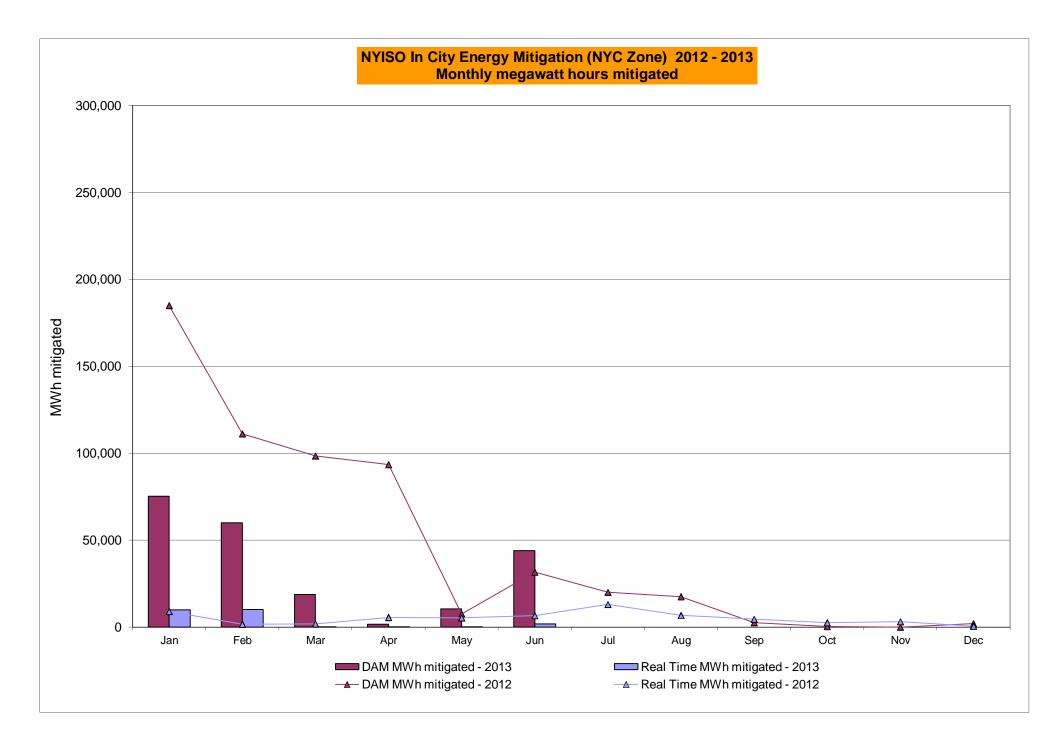


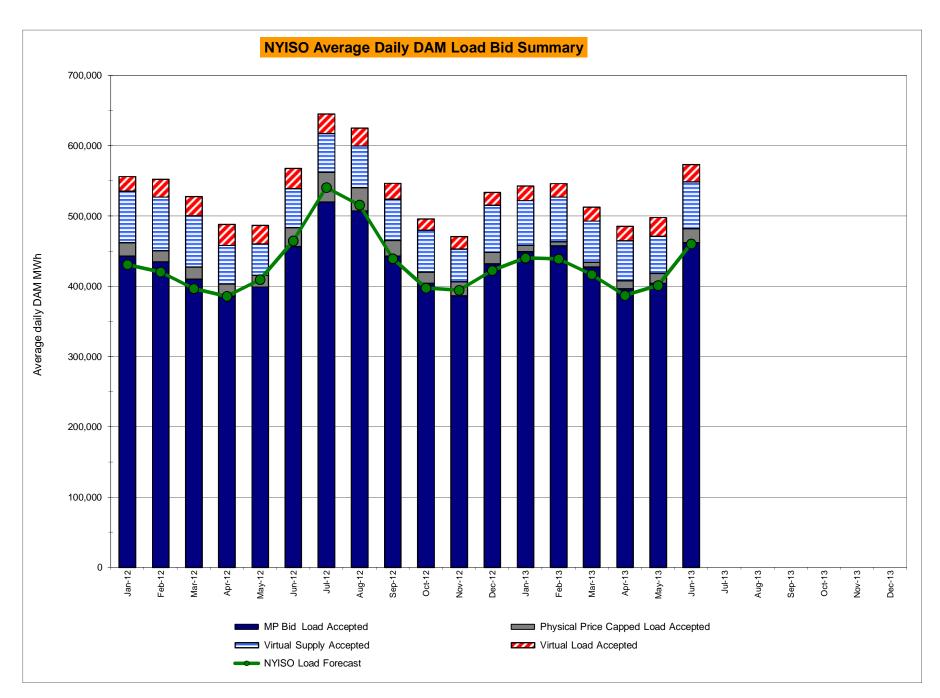
#### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

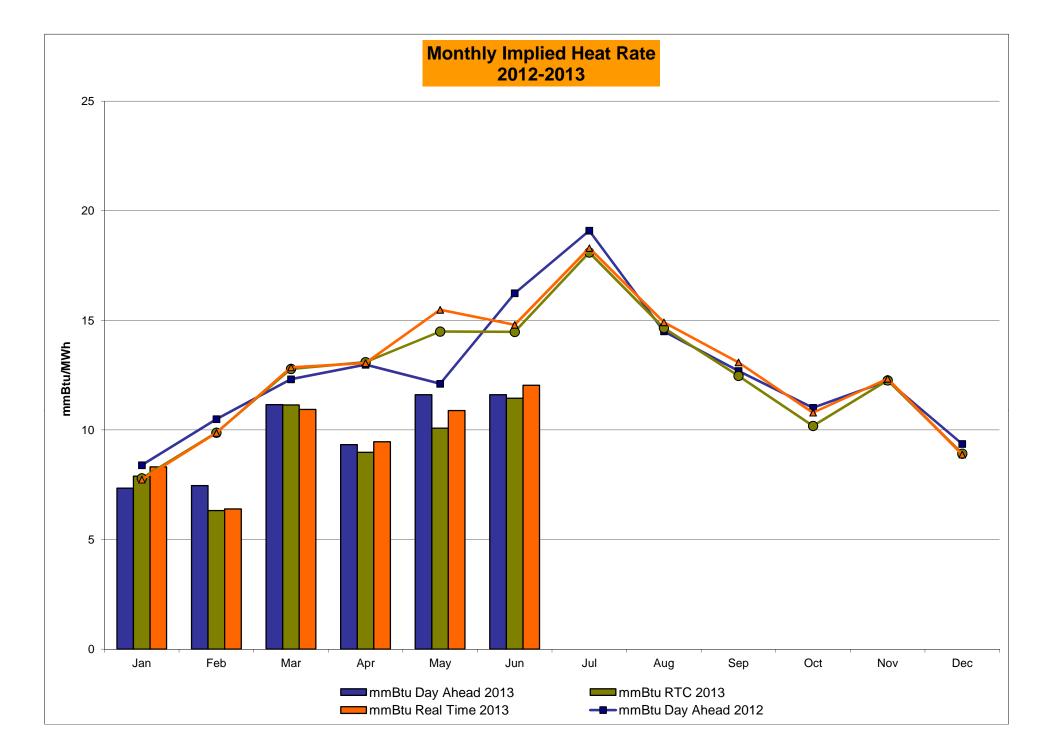
	-	11100 Mark	oto / tironia	<i>y</i>	Otation 00	Onweight	<del>04 1 1100 (</del>	<i>//</i>				
2013	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
Day Ahead Market												
10 Min Spin East	11.12	9.05	8.73	6.49	9.25	7.59						
10 Min Spin West	7.72	5.53	4.34	4.46	4.67	4.46						
10 Min Non Synch East	2.91	4.79	4.36	3.36	4.52	3.73						
10 Min Non Synch West	1.11	1.73	0.84	1.38	0.55	0.88						
30 Min East	0.56	0.65	0.56	0.53	0.36	0.40						
30 Min West	0.56	0.65	0.56	0.53	0.36	0.40						
Regulation East	15.94											
9		12.70	9.21	9.93	8.84	11.07						
Regulation West	15.94	12.70	9.21	9.93	8.84	11.07						
RTC Market												
10 Min Spin East	16.42	4.81	6.94	3.28	2.59	2.65						
10 Min Spin West	8.50	3.10	1.90	0.90	0.05	0.48						
10 Min Non Synch East					1.48							
	6.48	0.28	0.70	0.18		1.50						
10 Min Non Synch West	1.04	0.00	0.15	0.00	0.00	0.22						
30 Min East	0.00	0.00	0.00	0.00	0.00	0.00						
30 Min West	0.00	0.00	0.00	0.00	0.00	0.00						
Regulation East	15.18	8.81	7.43	6.84	6.42	10.42						
Regulation West	15.18	8.81	7.43	6.84	6.42	10.42						
NYCA Regulation Movement	0.00	0.00	0.00	0.00	0.00	0.27						
Real Time Market												
10 Min Spin East	18.42	4.63	6.12	3.35	3.03	3.41						
10 Min Spin West	9.22	3.00	1.44	1.15	0.13	0.94						
10 Min Non Synch East	8.81	0.52	0.93	0.06	1.84	2.22						
10 Min Non Synch West	2.00	0.00	0.10	0.00	0.00	0.53						
30 Min East	0.00	0.00	0.00	0.00	0.00	0.00						
30 Min West												
	0.00	0.00	0.00	0.00	0.00	0.00						
Regulation East	15.40	8.92	6.89	7.03	6.48	10.55						
Regulation West	15.40	8.92	6.89	7.03	6.48	10.55						
NYCA Regulation Movement	0.00	0.00	0.00	0.00	0.00	0.27						
2012	lanuary	February	March	Anril	May	lune	luly	August	Sentember	October	November	December
2012	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
Day Ahead Market		-										
Day Ahead Market 10 Min Spin East	6.26	4.01	7.11	6.44	4.62	7.54	7.77	4.95	5.55	5.32	7.15	4.62
Day Ahead Market 10 Min Spin East 10 Min Spin West	6.26 1.34	4.01 0.56	7.11 3.46	6.44 3.43	4.62 2.61	7.54 3.23	7.77 4.04	4.95 2.68	5.55 4.16	5.32 3.82	7.15 4.58	4.62 2.90
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	6.26 1.34 4.71	4.01 0.56 3.64	7.11 3.46 3.85	6.44 3.43 3.11	4.62 2.61 2.21	7.54 3.23 4.92	7.77 4.04 6.18	4.95 2.68 3.58	5.55 4.16 2.07	5.32 3.82 3.84	7.15 4.58 4.60	4.62 2.90 2.99
Day Ahead Market 10 Min Spin East 10 Min Spin West	6.26 1.34	4.01 0.56	7.11 3.46 3.85 0.22	6.44 3.43	4.62 2.61	7.54 3.23	7.77 4.04	4.95 2.68	5.55 4.16	5.32 3.82	7.15 4.58	4.62 2.90 2.99 1.37
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	6.26 1.34 4.71	4.01 0.56 3.64	7.11 3.46 3.85	6.44 3.43 3.11	4.62 2.61 2.21	7.54 3.23 4.92	7.77 4.04 6.18	4.95 2.68 3.58	5.55 4.16 2.07	5.32 3.82 3.84	7.15 4.58 4.60	4.62 2.90 2.99
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	6.26 1.34 4.71 0.15	4.01 0.56 3.64 0.18	7.11 3.46 3.85 0.22	6.44 3.43 3.11 0.16	4.62 2.61 2.21 0.20	7.54 3.23 4.92 0.72	7.77 4.04 6.18 2.55	4.95 2.68 3.58 1.47	5.55 4.16 2.07 0.82	5.32 3.82 3.84 2.34	7.15 4.58 4.60 2.32	4.62 2.90 2.99 1.37
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	6.26 1.34 4.71 0.15 0.15	4.01 0.56 3.64 0.18 0.18	7.11 3.46 3.85 0.22 0.22 0.22	6.44 3.43 3.11 0.16 0.16 0.16	4.62 2.61 2.21 0.20 0.20 0.20	7.54 3.23 4.92 0.72 0.48 0.48	7.77 4.04 6.18 2.55 0.64 0.64	4.95 2.68 3.58 1.47 0.33 0.33	5.55 4.16 2.07 0.82 0.23 0.23	5.32 3.82 3.84 2.34 0.23 0.23	7.15 4.58 4.60 2.32 0.48 0.48	4.62 2.90 2.99 1.37 0.45 0.45
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	6.26 1.34 4.71 0.15 0.15 0.15 9.01	4.01 0.56 3.64 0.18 0.18 0.18 7.11	7.11 3.46 3.85 0.22 0.22 0.22 11.33	6.44 3.43 3.11 0.16 0.16 0.16 11.77	4.62 2.61 2.21 0.20 0.20 0.20 9.63	7.54 3.23 4.92 0.72 0.48 0.48 13.55	7.77 4.04 6.18 2.55 0.64 0.64 15.78	4.95 2.68 3.58 1.47 0.33 0.33 11.38	5.55 4.16 2.07 0.82 0.23 0.23 8.54	5.32 3.82 3.84 2.34 0.23 0.23 8.65	7.15 4.58 4.60 2.32 0.48 0.48 10.05	4.62 2.90 2.99 1.37 0.45 0.45 7.99
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	6.26 1.34 4.71 0.15 0.15	4.01 0.56 3.64 0.18 0.18 0.18	7.11 3.46 3.85 0.22 0.22 0.22	6.44 3.43 3.11 0.16 0.16 0.16	4.62 2.61 2.21 0.20 0.20 0.20	7.54 3.23 4.92 0.72 0.48 0.48	7.77 4.04 6.18 2.55 0.64 0.64	4.95 2.68 3.58 1.47 0.33 0.33	5.55 4.16 2.07 0.82 0.23 0.23	5.32 3.82 3.84 2.34 0.23 0.23	7.15 4.58 4.60 2.32 0.48 0.48	4.62 2.90 2.99 1.37 0.45 0.45
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	6.26 1.34 4.71 0.15 0.15 0.15 9.01	4.01 0.56 3.64 0.18 0.18 0.18 7.11	7.11 3.46 3.85 0.22 0.22 0.22 11.33	6.44 3.43 3.11 0.16 0.16 0.16 11.77	4.62 2.61 2.21 0.20 0.20 0.20 9.63	7.54 3.23 4.92 0.72 0.48 0.48 13.55	7.77 4.04 6.18 2.55 0.64 0.64 15.78	4.95 2.68 3.58 1.47 0.33 0.33 11.38	5.55 4.16 2.07 0.82 0.23 0.23 8.54	5.32 3.82 3.84 2.34 0.23 0.23 8.65	7.15 4.58 4.60 2.32 0.48 0.48 10.05	4.62 2.90 2.99 1.37 0.45 0.45 7.99
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	6.26 1.34 4.71 0.15 0.15 0.15 9.01	4.01 0.56 3.64 0.18 0.18 0.18 7.11	7.11 3.46 3.85 0.22 0.22 0.22 11.33	6.44 3.43 3.11 0.16 0.16 0.16 11.77	4.62 2.61 2.21 0.20 0.20 0.20 9.63	7.54 3.23 4.92 0.72 0.48 0.48 13.55	7.77 4.04 6.18 2.55 0.64 0.64 15.78	4.95 2.68 3.58 1.47 0.33 0.33 11.38	5.55 4.16 2.07 0.82 0.23 0.23 8.54	5.32 3.82 3.84 2.34 0.23 0.23 8.65	7.15 4.58 4.60 2.32 0.48 0.48 10.05	4.62 2.90 2.99 1.37 0.45 0.45 7.99
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	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33	6.44 3.43 3.11 0.16 0.16 0.16 11.77	4.62 2.61 2.21 0.20 0.20 0.20 9.63 9.63	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55	7.77 4.04 6.18 2.55 0.64 0.64 15.78	4.95 2.68 3.58 1.47 0.33 0.33 11.38	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65	7.15 4.58 4.60 2.32 0.48 0.48 10.05	4.62 2.90 2.99 1.37 0.45 0.45 7.99
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	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77	4.62 2.61 2.21 0.20 0.20 0.20 9.63 9.63 8.07 2.11	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99
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	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77	4.62 2.61 2.21 0.20 0.20 0.20 9.63 9.63 8.07 2.11 4.90	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99
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 West	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55 7.03 2.02 4.90 0.69	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99
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 East  10 Min Non Synch East  10 Min Non Synch West  30 Min East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00	7.11 3.46 3.85 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05 7.31 4.39 1.02 0.00 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00
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  30 Min East  30 Min East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00	7.11 3.46 3.85 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05 7.31 4.39 1.02 0.00 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 0.00
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 West  30 Min East  30 Min West  Regulation East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 0.00 5.83	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05 7.31 4.39 1.02 0.00 0.00 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 0.00 6.38
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 West  30 Min East  30 Min West  Regulation West  Regulation West	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31 7.31	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 5.83 5.83	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35 5.35	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 0.00 6.38 6.38
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 West  30 Min East  30 Min West  Regulation East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 0.00 5.83	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05 7.31 4.39 1.02 0.00 0.00 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 0.00 6.38
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 West  30 Min East  30 Min East  Regulation East Regulation West	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31 7.31	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 5.83 5.83	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35 5.35	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 0.00 6.38 6.38
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 West  30 Min West  Regulation West  10 Rest  10 Min Non Synch East  10 Min Non Synch West  10 Min West  Regulation East  Regulation West  Regulation West  Regulation West  NYCA Regulation Movement  Real Time Market	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31 7.31 0.00	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 0.00	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31 0.00	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 0.00 5.83 5.83 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35 5.35 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 6.38 6.38 0.00
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 West Regulation East No Min Non Synch West  Regulation West Regulation Movement Real Time Market  10 Min Spin East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31 7.31 0.00	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 13.30 0.00	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00 4.14	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31 0.00	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 5.83 5.83 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35 5.35 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 0.00 6.38 6.38 0.00
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 West Regulation East Regulation East Regulation West Regulation Movement Real Time Market 10 Min Spin East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31 7.31 0.00	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 0.00	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77  4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00  4.14 2.34	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31 0.00	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78  9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 5.83 5.83 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35 5.35 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 0.00 6.38 6.38 0.00
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 East  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West Regulation East Regulation Movement Regulation Movement  Real Time Market  10 Min Spin East  10 Min Spin East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 7.31 7.31 0.00 1.61 1.09 0.17	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 0.00  5.38 4.00 1.01	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00 4.14 2.34 0.03	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 0.00	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00  8.11 2.41 6.15	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00  10.12 3.20 7.84	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 5.83 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35 5.35 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00  6.74 3.19 1.91	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 6.38 6.38 0.00
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 East  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West Regulation West  Regulation Movement Regulation West  Regulation East Regulation West  NYCA Regulation Movement  Real Time Market  10 Min Spin East  10 Min Spin East  10 Min Spin East  10 Min Spin East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 7.31 7.31 0.00 1.61 1.09 0.17 0.00	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 0.00 5.38 4.00 1.01 0.13	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00 4.14 2.34 0.03 0.00	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31 0.00	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00  8.11 2.41 6.15 1.20	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00  10.12 3.20 7.84 1.42	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 5.83 5.83 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 5.35 5.35 0.00 5.75 1.13 2.03 0.14	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00  6.74 3.19 1.91 0.10	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 6.38 6.38 0.00
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 West  30 Min East  30 Min West Regulation West  Regulation West  10 Min Non Synch West  10 Min Non Synch West  30 Min East  30 Min West Regulation East Regulation West  NYCA Regulation Movement  Real Time Market  10 Min Spin East  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  30 Min East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31 7.31 0.00 1.61 1.09 0.17	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 0.00  5.38 4.00 1.01	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00 4.14 2.34 0.03	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 0.00	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00  8.11 2.41 6.15	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00  10.12 3.20 7.84	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 5.83 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35 5.35 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00  6.74 3.19 1.91	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 6.38 6.38 0.00
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 East  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West Regulation West  Regulation Movement Regulation West  Regulation East Regulation West  NYCA Regulation Movement  Real Time Market  10 Min Spin East  10 Min Spin East  10 Min Spin East  10 Min Spin East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 7.31 7.31 0.00 1.61 1.09 0.17 0.00	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 0.00 5.38 4.00 1.01 0.13	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00 4.14 2.34 0.03 0.00	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31 0.00	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00  8.11 2.41 6.15 1.20	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00  10.12 3.20 7.84 1.42	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 4.91 1.41 1.36 0.00 0.00 5.83 5.83 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 5.35 5.35 0.00 5.75 1.13 2.03 0.14	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00  6.74 3.19 1.91 0.10	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 6.38 6.38 0.00
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 West  30 Min East  30 Min West Regulation West  Regulation West  10 Min Non Synch West  10 Min Non Synch West  30 Min East  30 Min West Regulation East Regulation West  NYCA Regulation Movement  Real Time Market  10 Min Spin East  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  30 Min East	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 7.31 7.31 0.00 1.61 1.09 0.17 0.00 0.00	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 0.00 5.38 4.00 1.01 0.13 0.00	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77 4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00 4.14 2.34 0.03 0.00 0.00 0.00	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31 0.00	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00  8.11 2.41 6.15 1.20 0.13	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78 9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00  10.12 3.20 7.84 1.42 0.49	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 11.38 4.91 1.41 1.36 0.00 0.00 5.83 5.83 0.00 5.01 1.72 1.33 0.00 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 0.00 5.35 5.35 0.00 5.75 1.13 2.03 0.14 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00  6.74 3.19 1.91 0.10 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 6.38 6.38 0.00
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 West 30 Min East 30 Min West Regulation East Regulation West 10 Min Non Synch West 10 Min Non Synch West 30 Min East 30 Min West Regulation 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 Non Synch West 30 Min East 30 Min East 30 Min West Regulation East	6.26 1.34 4.71 0.15 0.15 0.15 0.15 9.01 9.01  2.64 2.16 0.17 0.00 0.00 0.00 10.31 10.31 0.00  2.21 1.89 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 7.11 0.99 0.55 0.13 0.00 0.00 0.00 7.31 7.31 0.00 1.61 1.09 0.17 0.00 0.00 0.00 0.00 0.00 7.31 7.31 7.31	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 0.00 5.38 4.00 1.01 0.13 0.00 0.00 14.46	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77  4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00  4.14 2.34 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0	4.62 2.61 2.21 0.20 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31 0.00  9.27 2.92 6.31 1.24 1.90 0.41 7.30	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00  8.11 2.41 6.15 1.20 0.13 0.09 7.74	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78  9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00  10.12 3.20 7.84 1.42 0.49 0.08 7.93	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 11.38 4.91 1.41 1.36 0.00 0.00 0.00 5.83 5.83 0.00 5.01 1.72 1.33 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 5.35 5.35 0.00  5.75 1.13 2.03 0.14 0.00 0.00 5.27	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00 9.93 0.28 7.39 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00  6.74 3.19 1.91 0.10 0.00 0.00 0.00 12.20	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 6.38 6.38 0.00 3.06 1.28 0.39 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation 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 West Regulation West Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West	6.26 1.34 4.71 0.15 0.15 0.15 9.01 9.01 2.64 2.16 0.17 0.00 0.00 0.00 10.31 10.31 0.00	4.01 0.56 3.64 0.18 0.18 0.18 7.11 7.11 0.99 0.55 0.13 0.00 0.00 7.31 7.31 0.00 1.61 1.09 0.17 0.00 0.00 0.00 0.00	7.11 3.46 3.85 0.22 0.22 0.22 11.33 11.33 11.33 4.49 3.43 0.75 0.15 0.00 0.00 13.30 13.30 13.30 0.00 5.38 4.00 1.01 0.13 0.00 0.00	6.44 3.43 3.11 0.16 0.16 0.16 11.77 11.77  4.05 2.20 0.02 0.00 0.00 0.00 12.91 12.91 0.00  4.14 2.34 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0	4.62 2.61 2.21 0.20 0.20 9.63 9.63 8.07 2.11 4.90 0.50 0.16 0.07 6.31 6.31 0.00 9.27 2.92 6.31 1.24 1.90 0.41	7.54 3.23 4.92 0.72 0.48 0.48 13.55 13.55  7.03 2.02 4.90 0.69 0.07 0.07 6.61 6.61 0.00  8.11 2.41 6.15 1.20 0.13 0.09	7.77 4.04 6.18 2.55 0.64 0.64 15.78 15.78  9.02 3.21 6.42 1.19 0.13 0.10 7.74 7.74 0.00  10.12 3.20 7.84 1.42 0.49 0.08	4.95 2.68 3.58 1.47 0.33 0.33 11.38 11.38 11.38 4.91 1.41 1.36 0.00 0.00 5.83 5.83 0.00 5.01 1.72 1.33 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.55 4.16 2.07 0.82 0.23 0.23 8.54 8.54 5.02 0.95 1.10 0.00 0.00 5.35 5.35 0.00  5.75 1.13 2.03 0.14 0.00 0.00 0.00	5.32 3.82 3.84 2.34 0.23 0.23 8.65 8.65 10.16 0.13 7.62 0.03 0.00 0.00 7.85 7.85 0.00 9.93 0.28 7.39 0.00 0.00 0.00	7.15 4.58 4.60 2.32 0.48 0.48 10.05 10.05  7.31 4.39 1.02 0.00 0.00 0.00 13.11 13.11 0.00  6.74 3.19 1.91 0.10 0.00 0.00 0.00	4.62 2.90 2.99 1.37 0.45 0.45 7.99 7.99 3.77 1.63 0.43 0.00 0.00 0.00 6.38 6.38 0.00



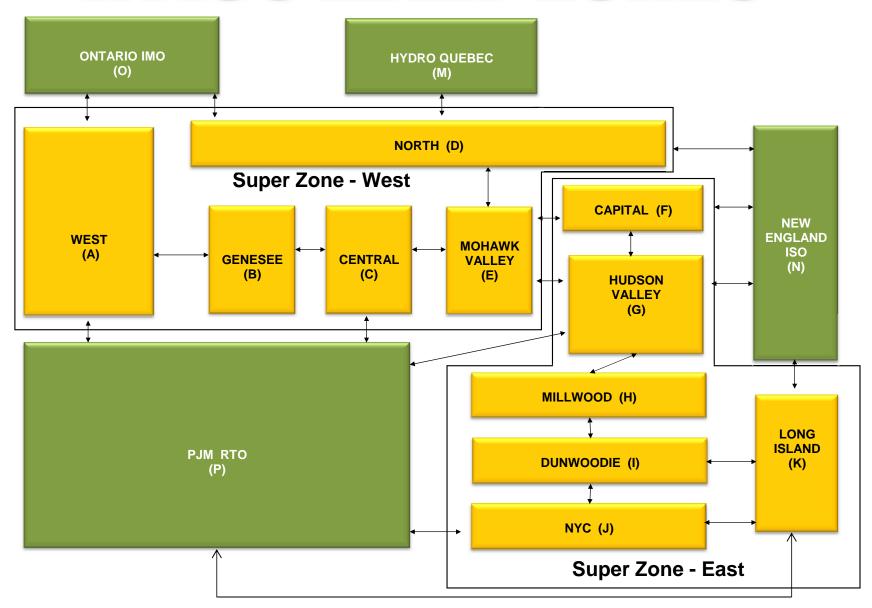








## NYISO LBMP ZONES



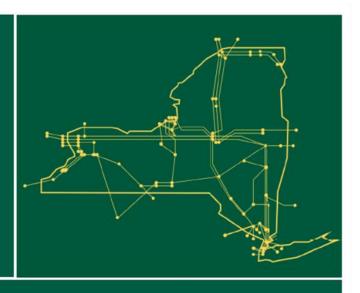
#### **Billing Codes for Chart 4-C**

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: 7/2/2013 10:47 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.



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## **Summary Description of Upcoming Regulatory Compliance Filings, Recently Submitted Filings and Issued Orders on NYISO Matters**

**Upcoming Compliance Filings** 

Filing Due Date	Upcoming Compliance Filings (Description)	Docket Number
8/14/2013	NYISO compliance with Order No. 745 re: demand response compensation in organized wholesale energy markets	ER11-4338-000
8/16/2013	NYISO compliance with Order No. 1000 re: regional transmission planning process. Note: NYISO has filed for an extension to this compliance deadline	ER13-102-000
9/30/2013	NYISO compliance filing re: removal of MST Attachment M-1 or replacement with reference to Schedule C to OATT Attachment CC, as appropriate	D.C. Cir. Dkt. 11-1201 (6/14/13 denial of NRG appeal of FERC's approval of the Con Ed wheel settlement
10/4/2013	NYISO compliance report re: buyer-side mitigation rules in a new capacity zone	ER13-360-001

**Recently Issued Orders** 

Filing Date	Filing Summary (Order issued)	Docket Number	Order Date	Order Summary
6/29/2012	NYISO compliance filing re: market mitigation measures for New Capacity Zones	ER12-360-000, ER12-360-001	6/6/2013	FERC order accepting tariff revisions subject to compliance within 30 days of this order
7/27/2012	NYISO/NYPA joint 205 filing re: application to increase NYPA's annual transmission revenue requirement used to develop the Transmission Service Charge ("TSC") and a request to approve certain OATT ministerial revisions, grant certain waivers, and exempt it from FERC's filing fees	ER12-2317-000	6/14/2013	On 6/12/13, a FERC Settlement Judge certified an uncontested settlement to the Commission, and on 6/14/13 issued an order terminating settlement judge procedures in this proceeding
3/29/2013	NYISO 205 filing re: revisions to better align the credit requirements for external transactions with market risk in the NYCA	ER13-1199-000	6/11/2013	FERC order accepting revisions to be effective 6/12/13, or on such later date as indicated in a notice filed by NYISO by 6/12/13
4/30/2013	NYISO 205 filing of MST and OATT revisions re: establishment of a New Capacity Zone combined with a triennial NCZ Study	ER13-1380-000	6/6/2013	FERC deficiency letter requiring NYISO to submit additional information within 14 days
5/1/2013	NYISO/National Grid joint 205 filing of a Large Generator Interconnection Agreement No. 1952 among NYISO, NiMo and Erie Boulevard Hydropower, LP	ER13-1390-000	6/14/2013	FERC letter order accepting filing effective 4/17/2013, as requested

2/8/2013, 5/9/2013	NYISO 205 filing of MST revisions re: modification of the calculation of the LBMP during periods of scarcity when NYISO has called MPs participating in demand response programs to reduce their loads to manage reliability issues	ER13-909-000, ER13-909-001	7/8/2013	FERC order accepting scarcity pricing tariff revisions effective 7/8/13, as requested
5/20/2013	NYISO compliance filing re: interface pricing and the adoption of certain revised NAESB standards	ER13-780-003, RM05-5-020	6/25/2013	FERC letter order accepting interface pricing revisions (effective 7/22/13) and NAESB business practice standards (effective 5/6/13)
6/4/2013	NYISO and NYTO joint filing of an answer and request for rehearing/clarification re: Order No. 1000 cost allocation issue	ER13-102-000	6/14/2013	FERC letter order granting NYISO/NYTO request for clarification and rehearing
6/6/2013	NYISO filing of a request for a 60-day extension of time to file a compliance filing re: Order No. 745 directives	ER11-4338-000	6/13/2013	FERC notice granting NYISO's request for extension up to and including 8/14/13
6/12/2013	NYISO filing of a notice of an effective date delay re: tariff revisions to establish a distinct credit requirement for external transactions	ER13-1199-001	6/11/2013	FERC order accepting provisions to align credit requirements for external transactions with the associated market risk to be effective 6/12/13, or such later date as indicated in a notice filed by NYISO by 6/12/13, as requested

**Recently Submitted Filings** 

Filing		Docket
Date	Filing Summary	Number
6/3/2013	NYISO filing of semi-annual compliance reports re: demand response programs and new generation projects No order to be issued	ER01-3001-000 ER03-647-000
6/3/2013	ISO/RTO Council filing of comments in response to FERC's NOPR on Small Generation Interconnection Procedures	RM13-2-000
6/5/2013	NYISO filing of an answer to comments and protests regarding its proposed tariff revisions to establish and recognize a new capacity zone	ER13-1380-000
6/6/2013	NYISO answer opposing a third party motion to lodge one slide from the FERC Office of Enforcement's 2012 State of the Markets Report in the evidentiary record in this PARS-related proceeding	ER11-1844-002
6/11/2013	NYISO refiling of Order No. 755 regulation service tariff revisions to establish an effective date of June 26, 2013	ER12-1653-002
6/12/2013	NYISO filing of a response to FERC's request for additional information concerning proposed tariff revisions to establish and recognize a new capacity zone	ER13-1380-000
6/12/2013	NYISO filing of an answer in response to third party comments re: NYISO response to FERC request for further information re: proposed tariff revisions concerning ancillary service price calculations during periods of scarcity	ER13-909-000
6/13/2013	NYISO 205 filing re: enhancing agency data sharing and market participant eligibility criteria consistent with CFTC exemptive order	ER13-1683-000

6/13/2013	NYISO and PJM joint 205 filing re: revisions to the Joint Operating Agreement concerning the Market-to-Market ("M2M") coordination process and M2M Settlements	ER13-1684-000
6/14/2013	NYISO filing of an amendment to its 6/12/13 response to FERC's 6/6/13 letter requesting additional information concerning proposed tariff revisions to establish and recognize a new capacity zone	ER13-1380-002
6/14/2013	NYISO filing of a limited answer in response to third party comments concerning assertions that go beyond the IPPNY Complaint's arguments concerning alleged "artificial price suppression"	EL13-62-000
6/17/2013	NYISO filing of a request for rehearing of FERC's May 16, 2013 Order on NYISO's Order No. 745 compliance filing	ER11-4338-000
6/18/2013	NYISO petition to the NYPSC re: report of construction loan costs and expenses for authorization to incur indebtedness for a term in excess of 12 months – No PSC order to be issued.	Case 12-E-0168
6/19/2013	NYISO compliance filing re: revised definition of the term Locality	ER12-360-003
6/21/2013	NYISO errata filing re: 1/22/13 frequency regulation filing related to Order No. 755	ER12-1654-004
6/24/2013	NYISO filing of an answer to third party comments filed in response to the NYISO's June 12 filing of a response to a request for additional information concerning proposed tariff revisions to establish and recognize a new capacity zone	ER13-1380-001
6/24/2013	ISO/RTO Council filing in response to the FERC NOPR re: proposed approval of NERC Critical Infrastructure Protection Reliability Standards, CIP-002-5 through CIP-011-1	RM13-5-000
6/28/2013	NYISO filing of responses to follow-up questions posed by FERC re: natural gas-electric market coordination	AD12-12-000
6/28/2013	NYISO informational filing of the Con Ed System Restoration Plan (CEII filing)	ER12-2568-000
7/2/2013	NYISO answer to a third party request for rehearing of FERC's 5/16/13 order re: participation of behind-the-meter generation as demand side resources	ER11-4338-001
7/8/2013	NYISO joint filing of an amended and restated LGIA between NYISO, NYPA and Marble River	ER13-1905-000
7/8/2013	ISO/RTO Council filing of comments in response to the FERC NOPR re: ERO interpretation of specific requirements of the disturbance control performance reliability standard	RM13-6-000
7/8/2013	NYISO filing of additional compliance filing revisions to implement both buyer-side and supplier-side mitigation measures for new capacity zones	ER12-360-004
7/8/2013	NYISO filing of an answer to a third party complaint v NYISO re: treatment of demand response facilitated by behind-themeter generation	EL13-74-000
7/10/2013	NYISO/NYTOs joint interregional (i.e., PJM, ISO-NE and NYISO) compliance filing re: Order No. 1000 directives	ER13-1946-000
7/10/2013	NYISO filing of a designation of filing party designating ISO-NE as the filing party for the Northeastern ISO/RTO Planning Coordination Protocol	ER13-1957-000
7/17/2013	NYISO/NYTOs joint request for an extension of time re: Order No. 1000 compliance filing	ER13-102-000
7/17/2013	NYISO filing of an answer re: two third party answers to NYISO's request for rehearing concerning Order No. 745 on demand response compensation	ER11-4338-001

	NYISO filing of comments to NERC, on behalf of the ISO/RTO Council, re: NERC's role as the Electricity Sector	
7/22/2013	Information Sharing and Analysis Center	No docket no.