



Monthly Report

January 2013

Rick Gonzales
Rana Mukerji
Robert Fernandez

TABLE OF CONTENTS

- Operations Performance Metrics Report
- Market Operation's Report
- Daily Loads
- Project Status Report
- Regulatory Filings

Operations Performance Metrics Monthly Report



January 2013 Report

Operations & Reliability Department New York Independent System Operator

Prepared by NYISO Operations Analysis and Services, based on settlements initial invoice data collected on or before February 8, 2013.

Table of Contents

- ◆ **Highlights**
 - *Operations Performance*

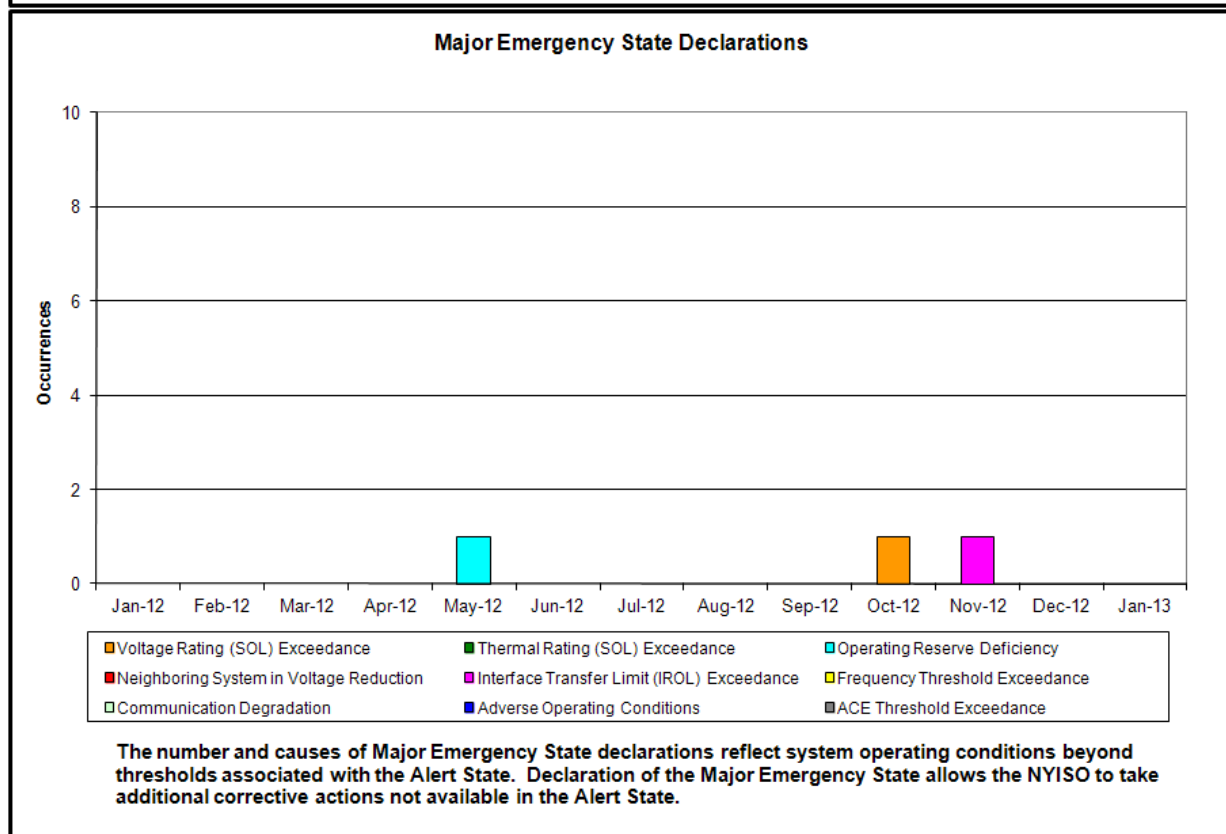
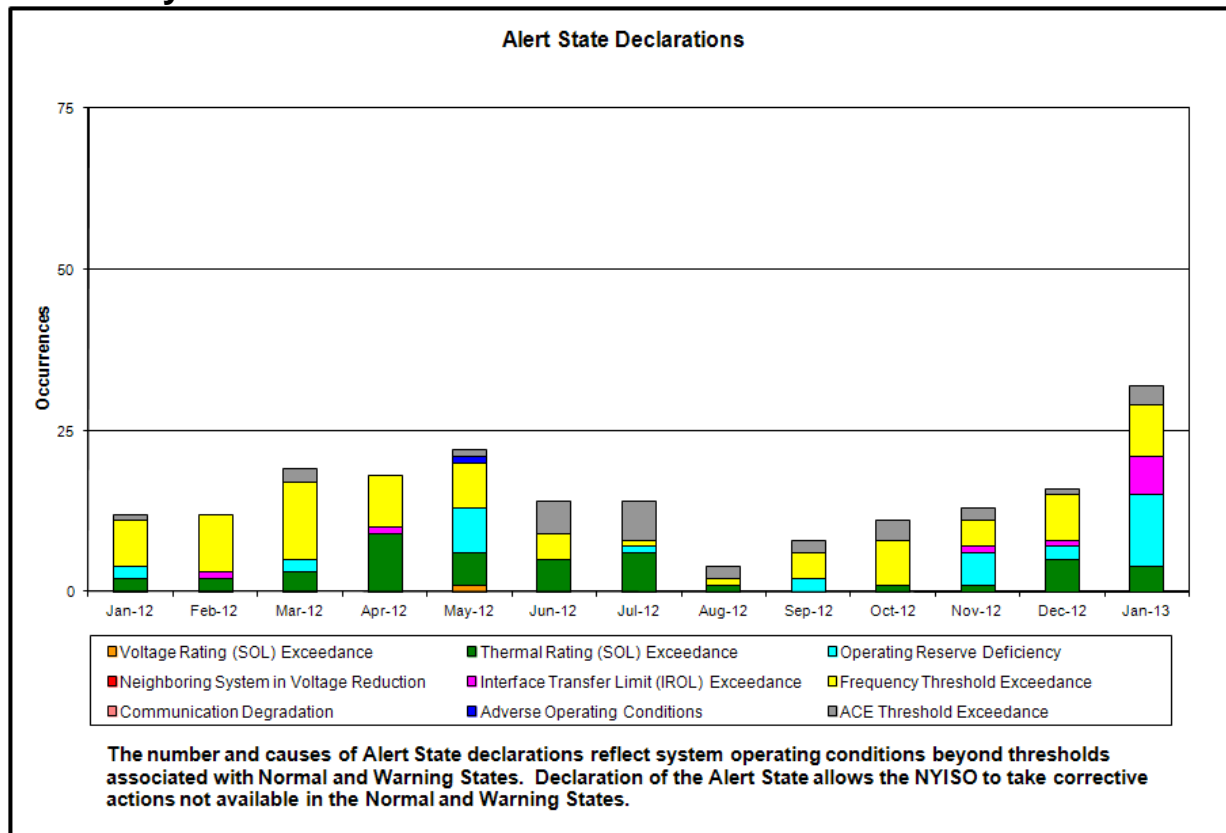
- ◆ **Reliability Performance Metrics**
 - *Alert State Declarations*
 - *Major Emergency State Declarations*
 - *IROL Exceedance Times*
 - *Balancing Area Control Performance*
 - *Reserve Activations*
 - *Disturbance Recovery Times*
 - *Load Forecasting Performance*
 - *Wind Forecasting Performance*
 - *Lake Erie Circulation and ISO Schedules*

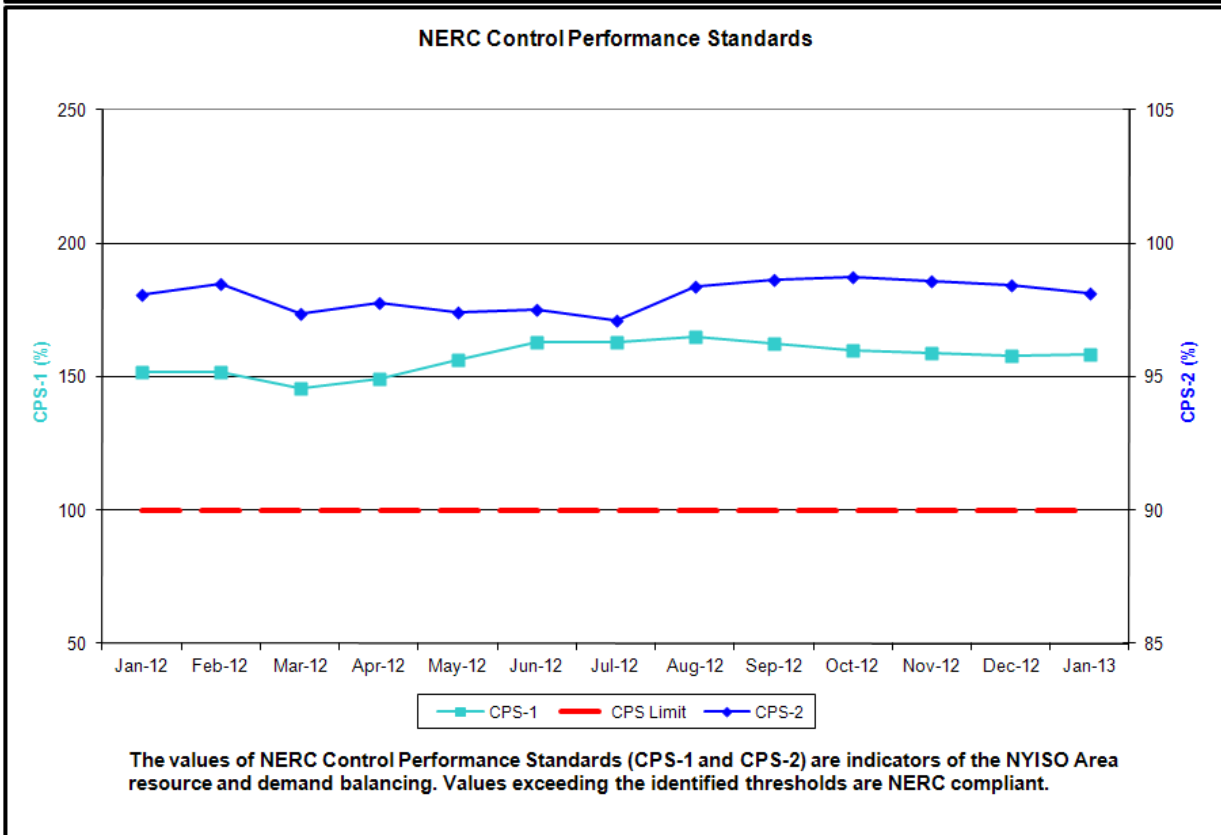
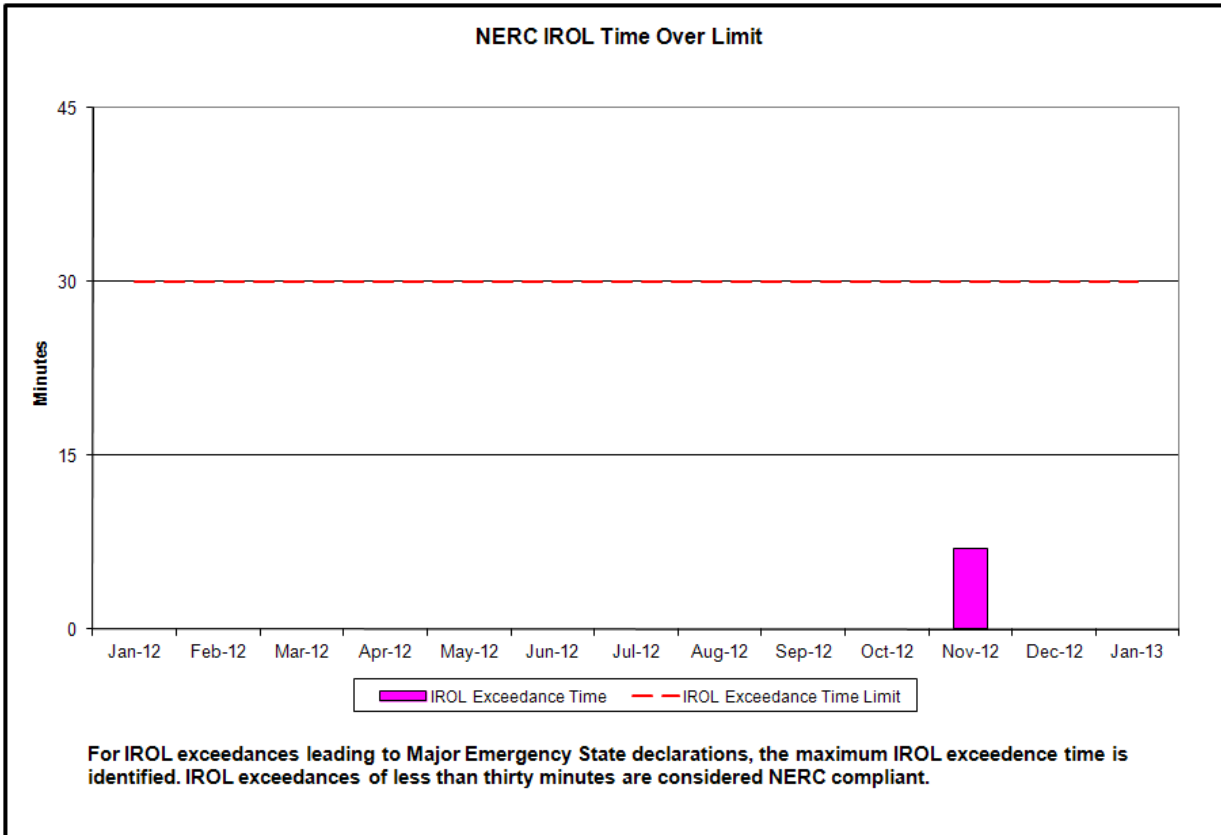
- ◆ **Market Performance Metrics**
 - *RTM Congestion Residuals Monthly Trend*
 - *RTM Congestion Residuals Daily Costs*
 - *RTM Congestion Residuals Event Summary*
 - *RTM Congestion Residuals Cost Categories*
 - *DAM Congestion Residuals Monthly Trend*
 - *DAM Congestion Residuals Daily Costs*
 - *DAM Congestion Residuals Cost Categories*
 - *NYCA Unit Uplift Components Monthly Trend*
 - *NYCA Unit Uplift Components Daily Costs*
 - *Local Reliability Costs Monthly Trend & Commitment Hours*
 - *TCC Monthly Clearing Price with DAM Congestion*
 - *ICAP Spot Market Clearing Price*
 - *UCAP Awards*

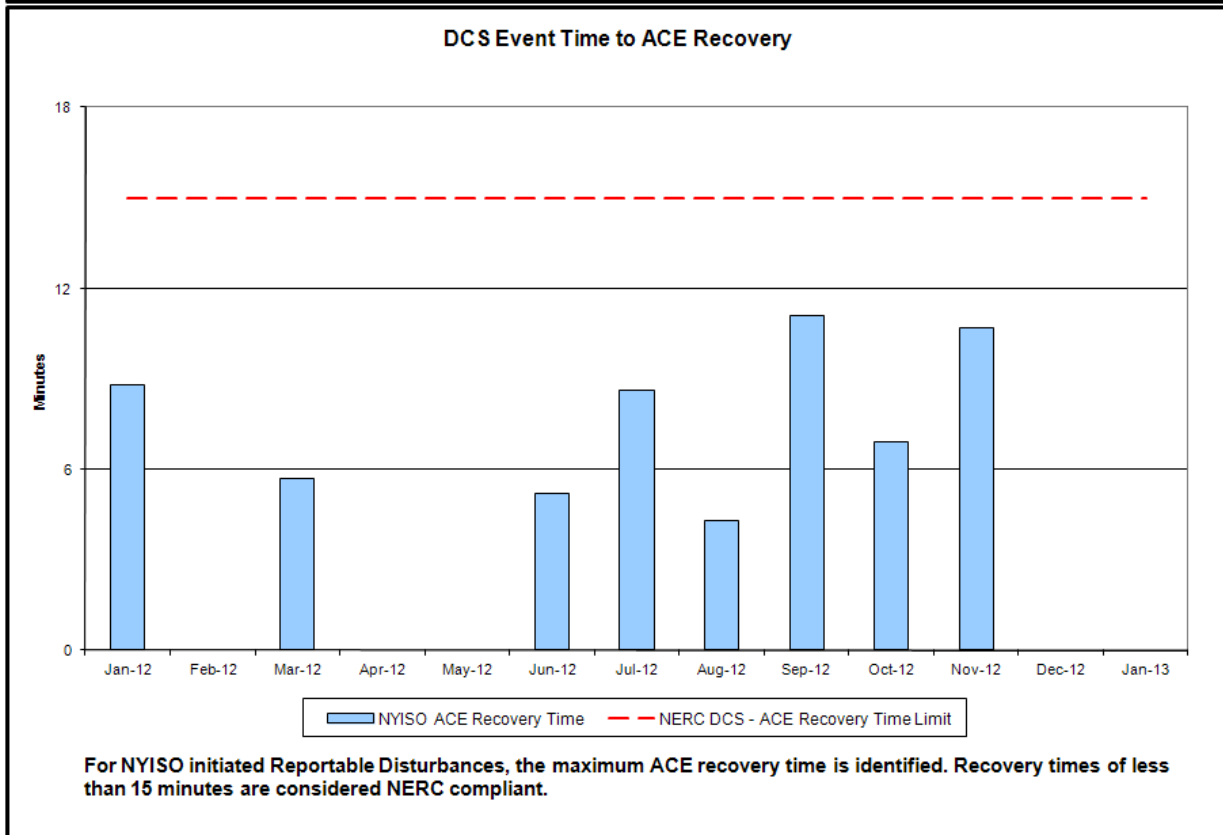
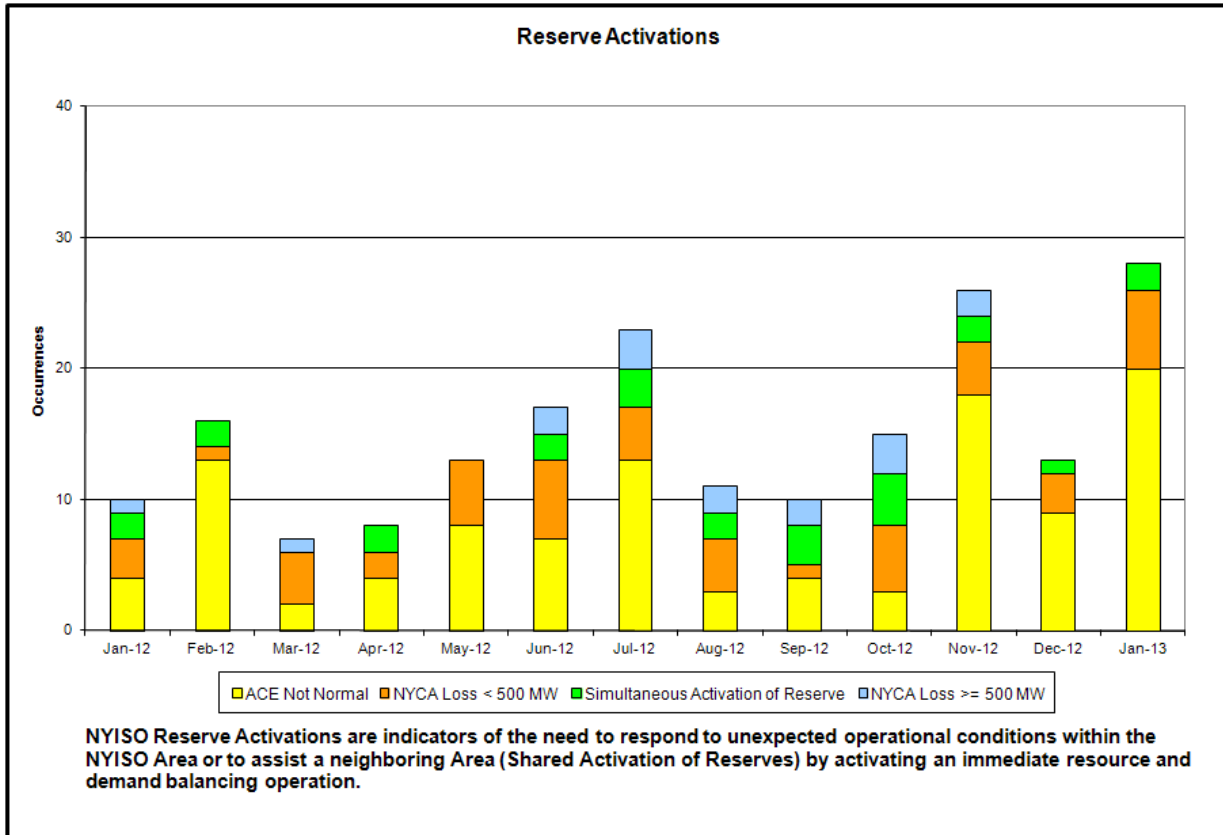
January 2013 Operations Performance Highlights

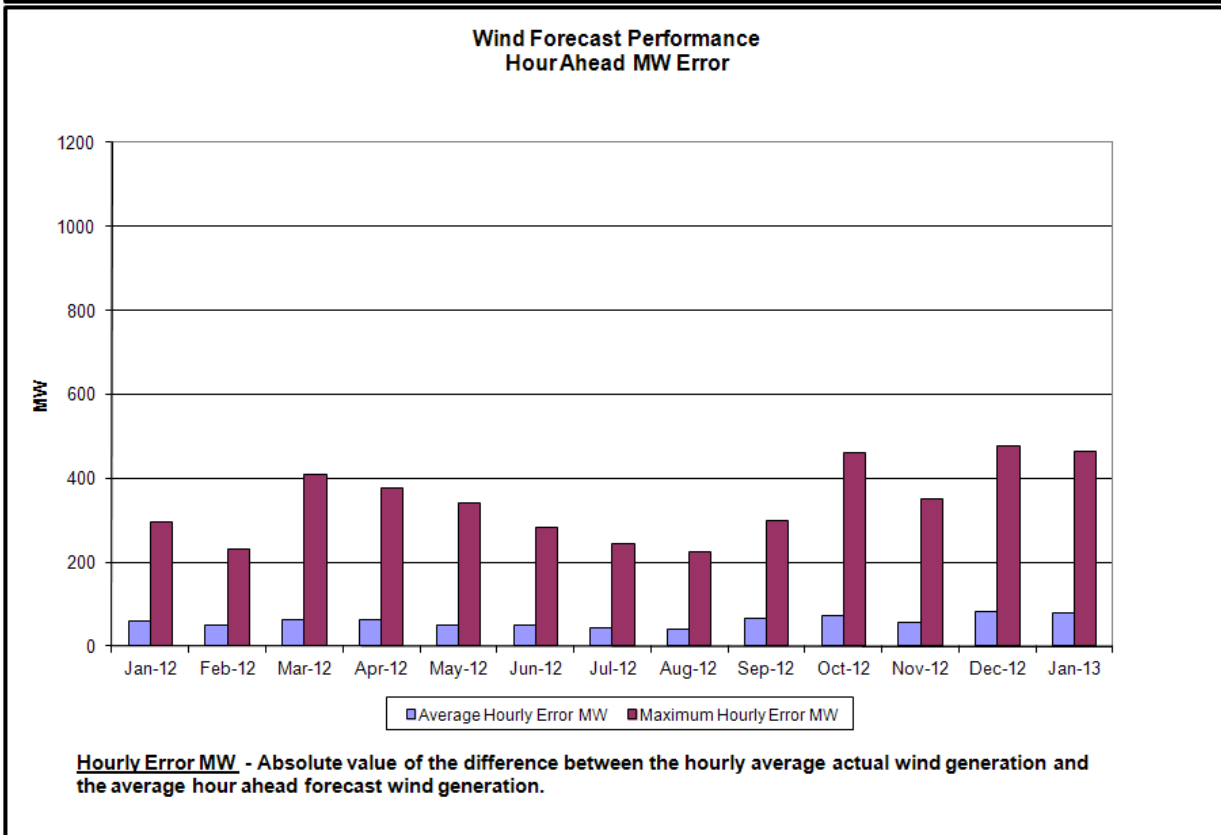
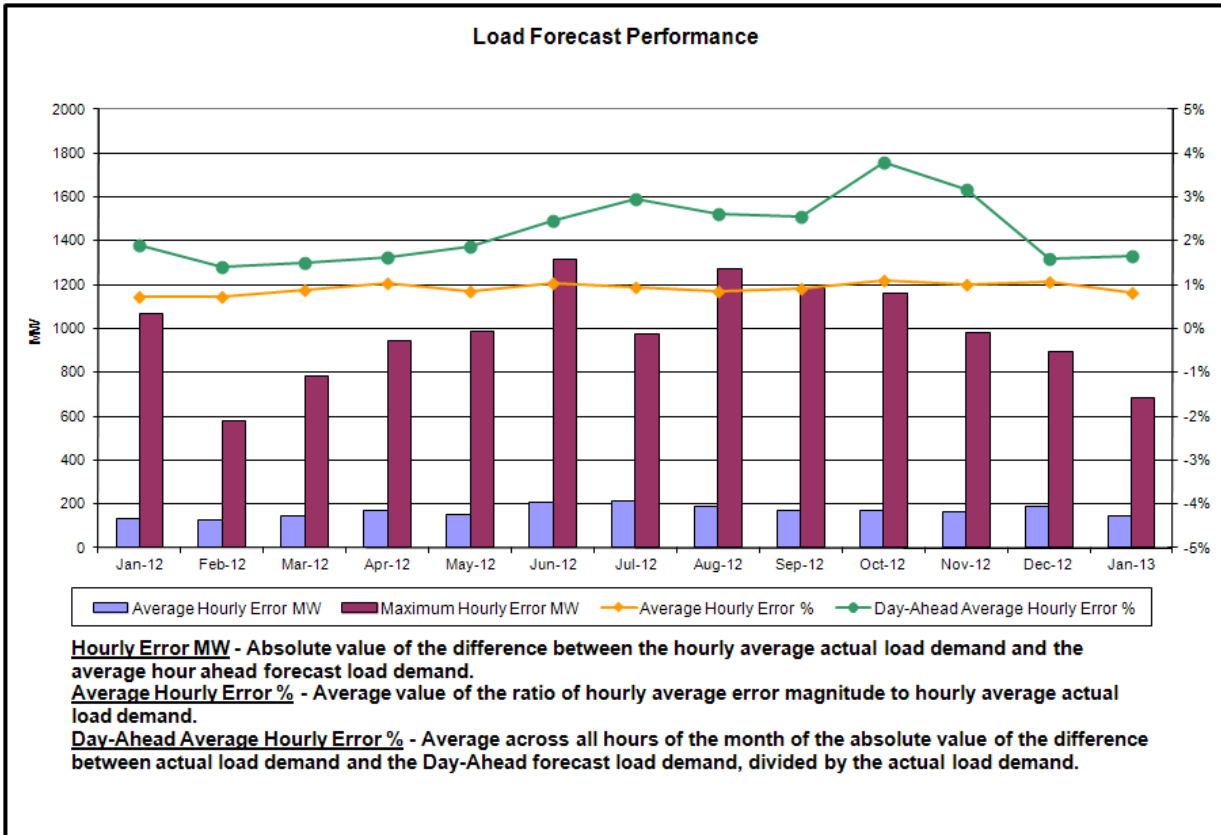
- Peak load of 24,658 MW occurred on 1/24/2013 HB 18
- All-time winter capability period peak load of 25,541 MW occurred on 12/20/2004 HB17
- No hours of Thunder Storm Alerts were declared
- Two hours of NERC TLR level 3 curtailments
- PJM Market-to-Market coordination initiated on 1/15/2013
- Significant cold temperatures during January 21-27

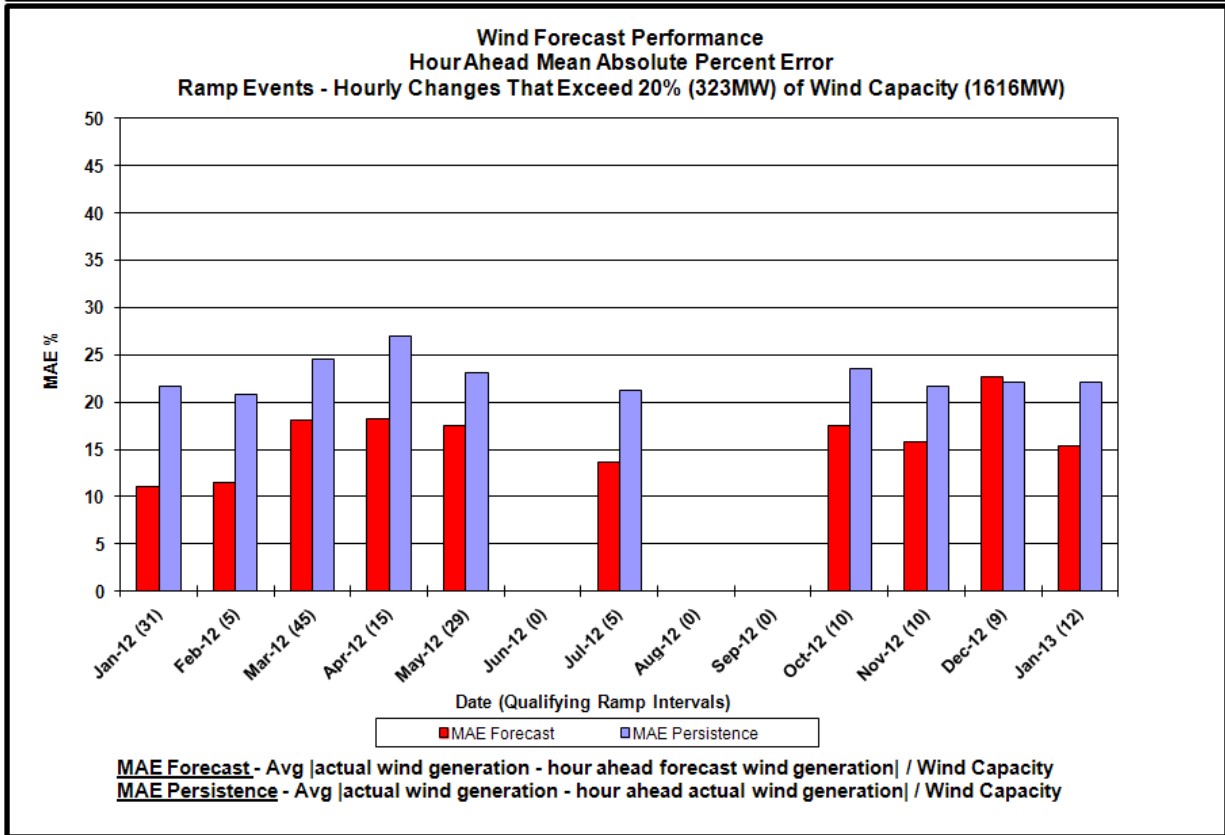
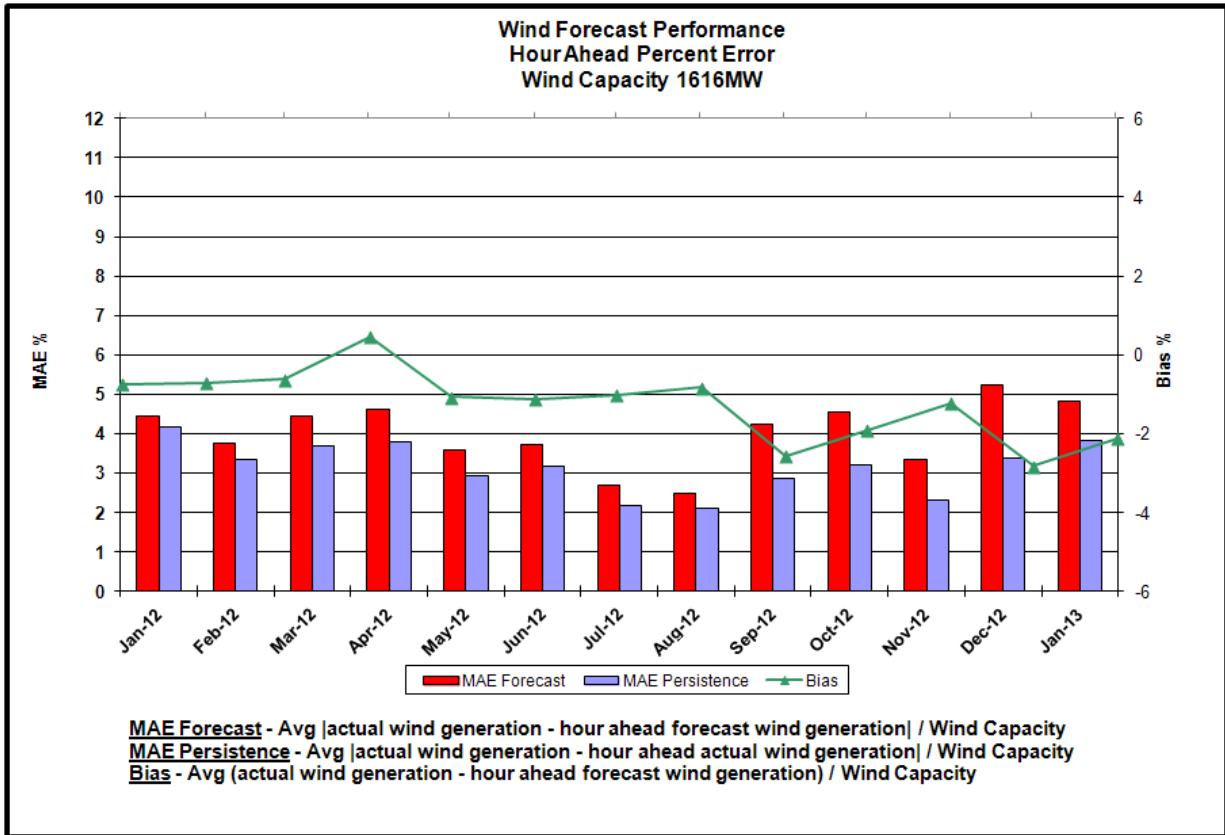
Reliability Performance Metrics

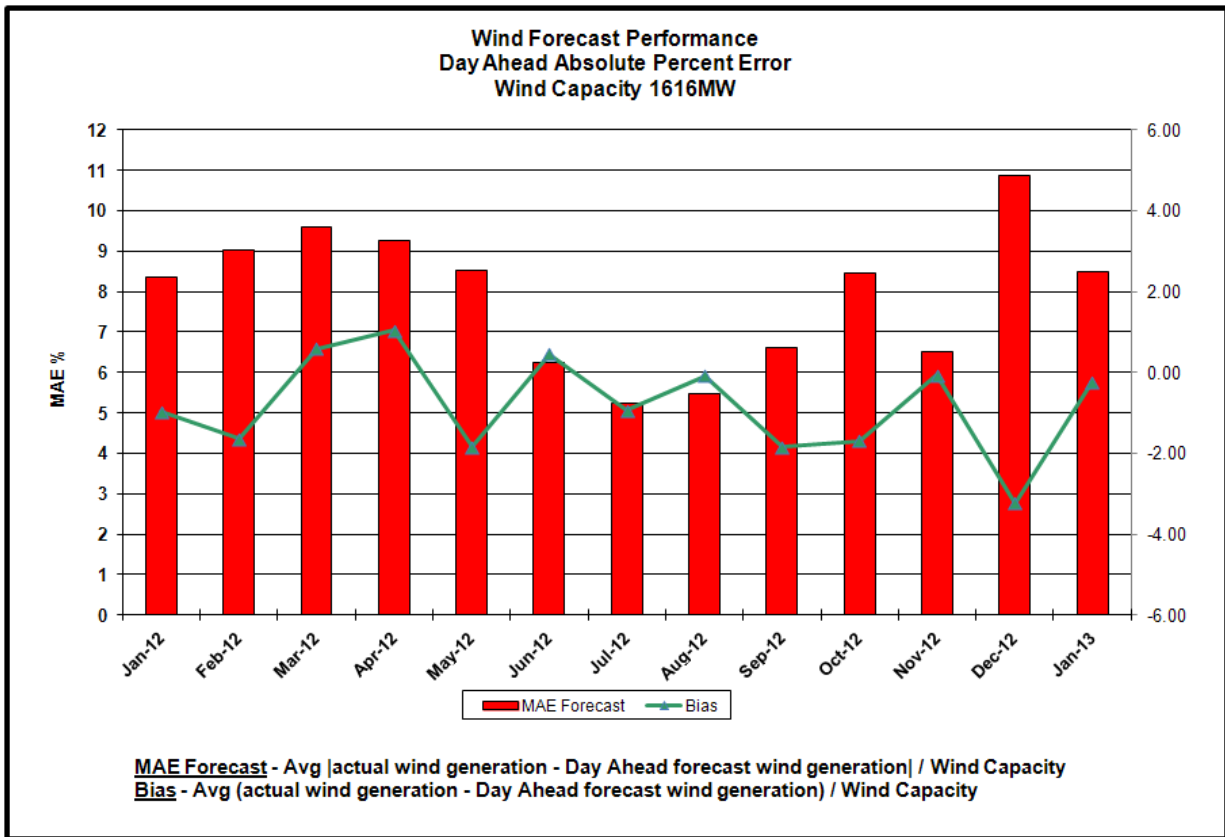


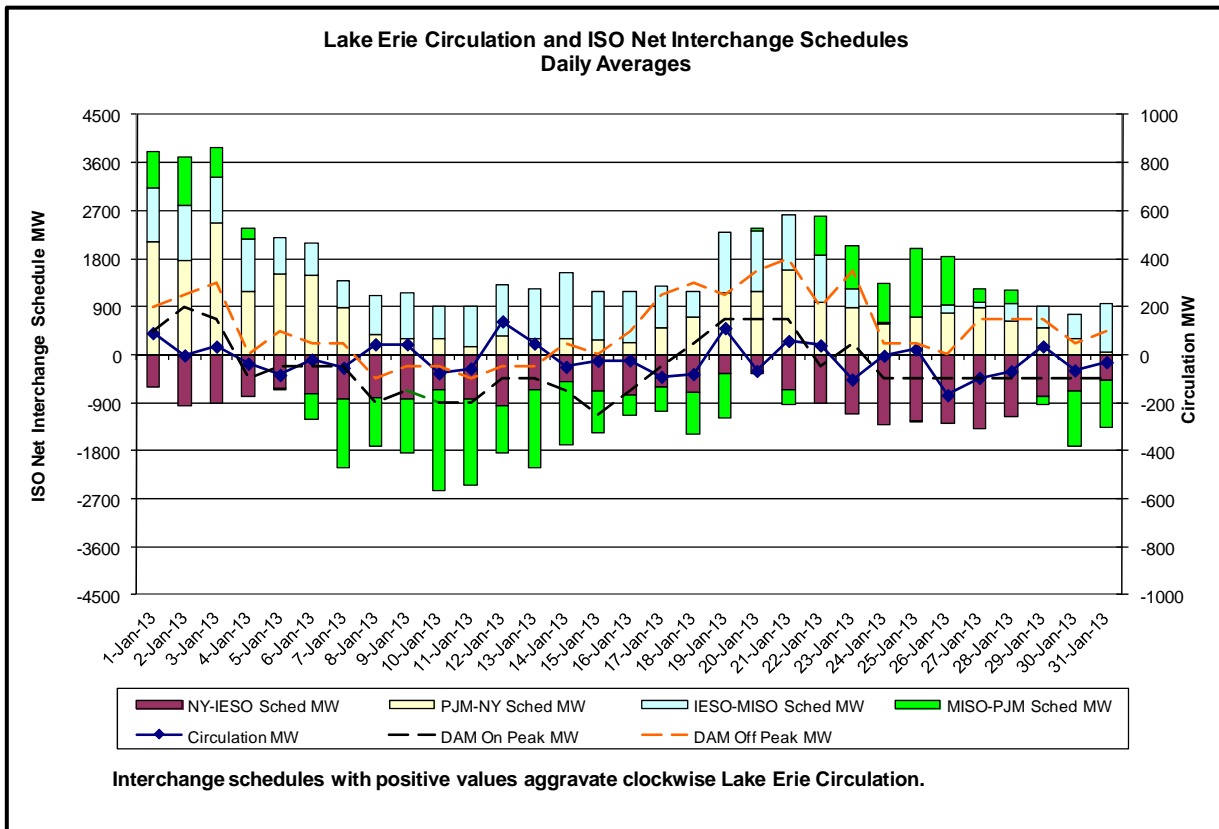
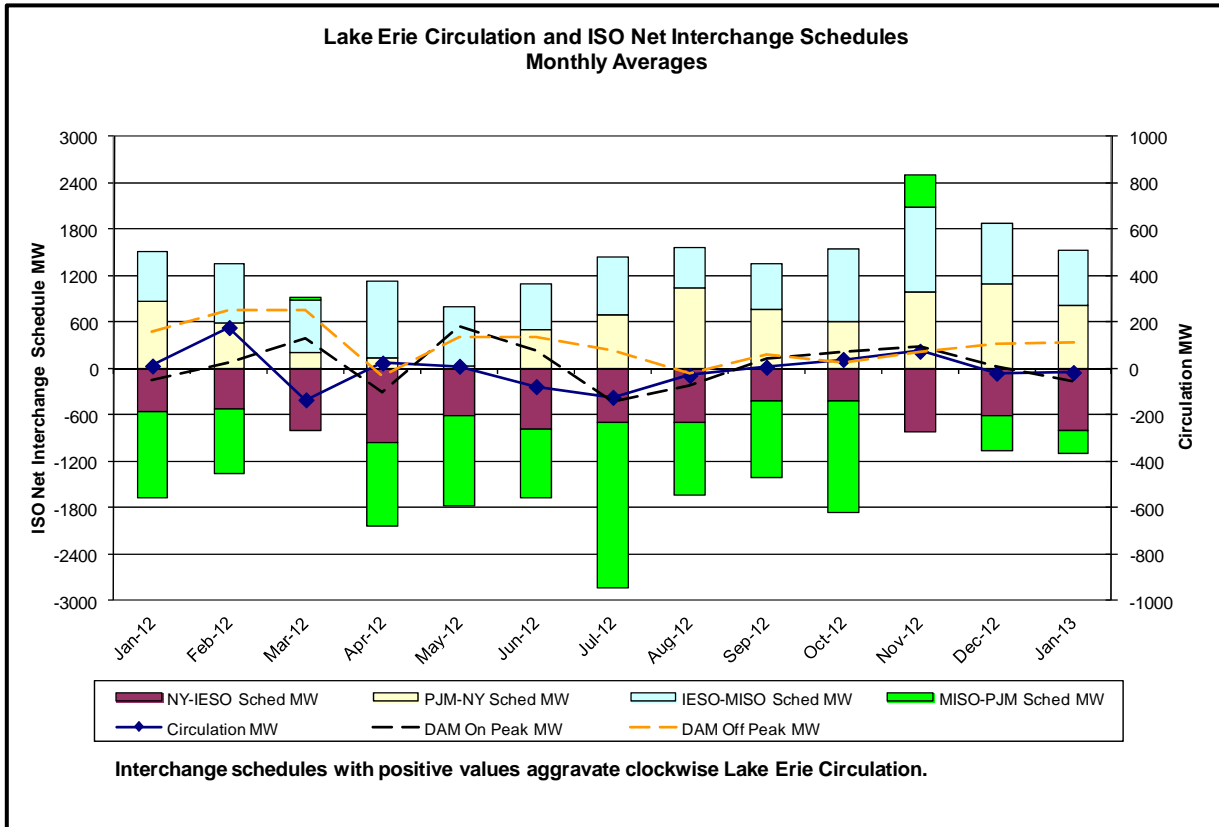




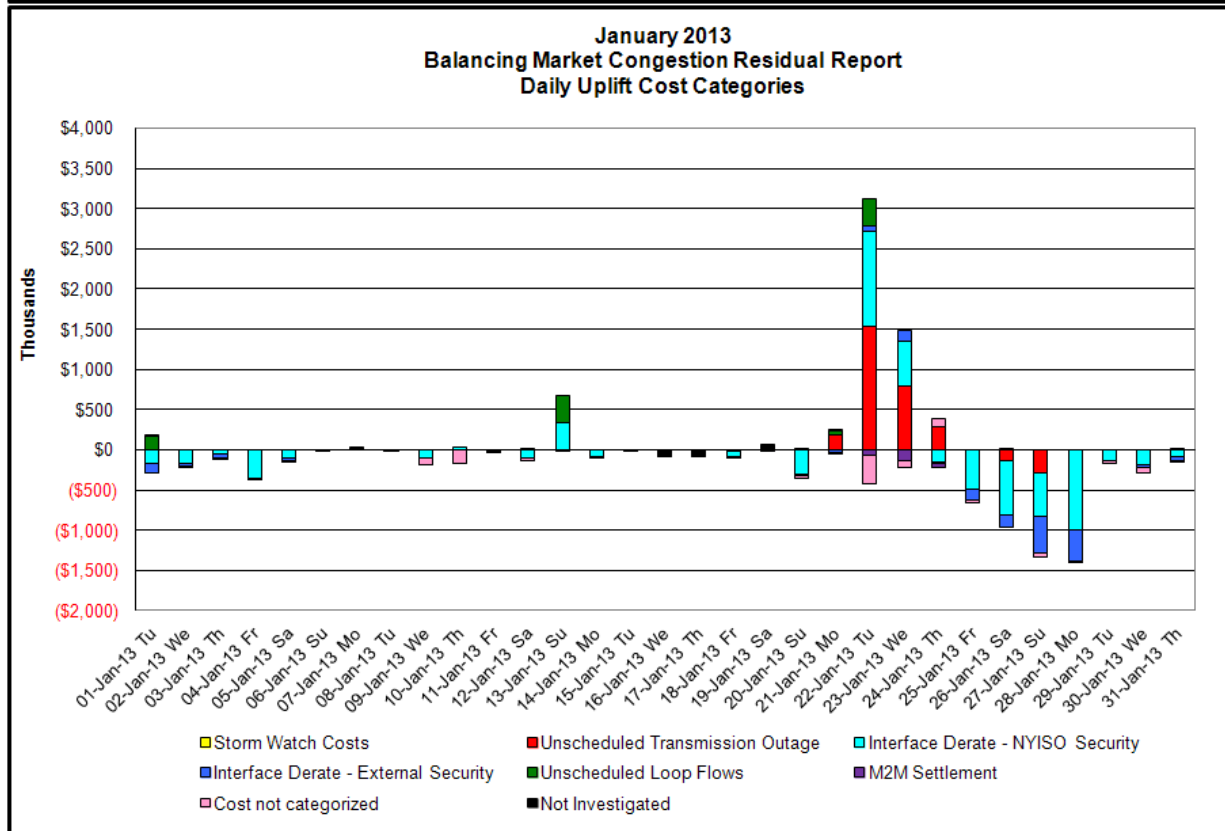
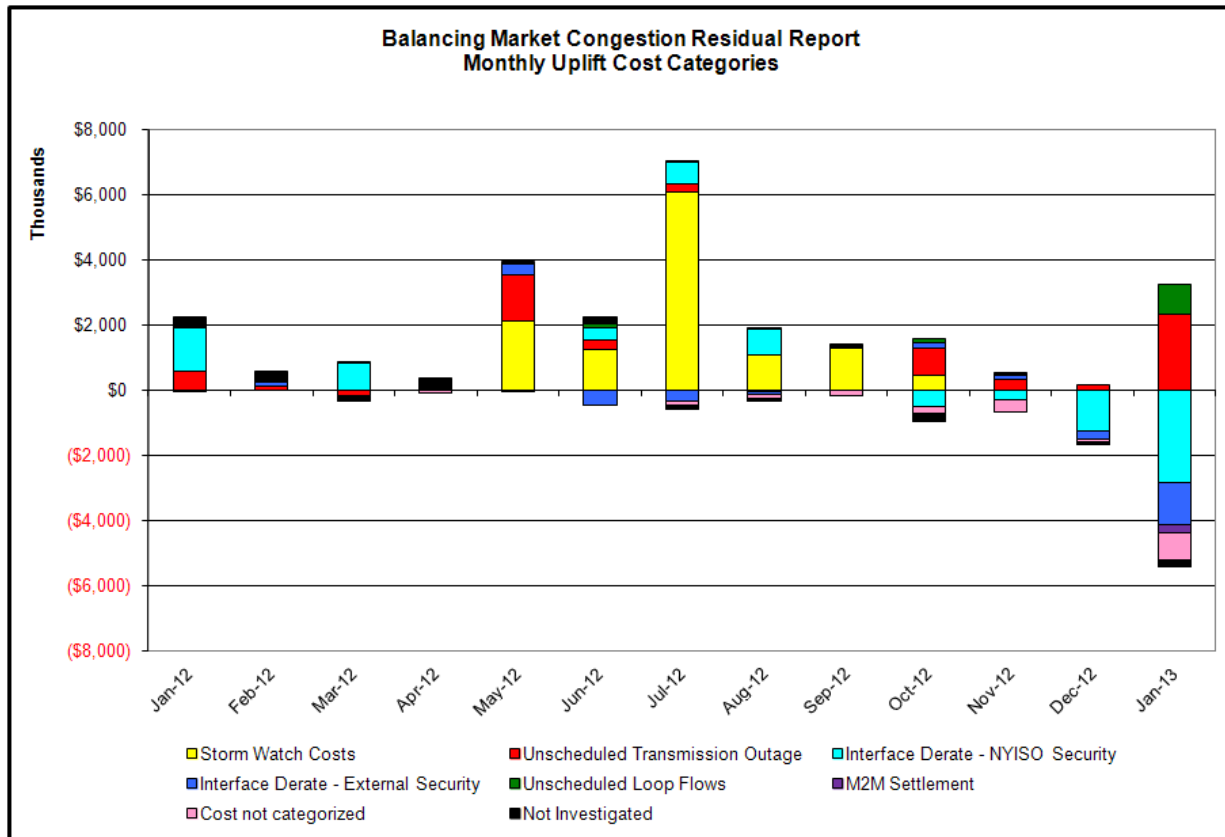








Market Performance Metrics



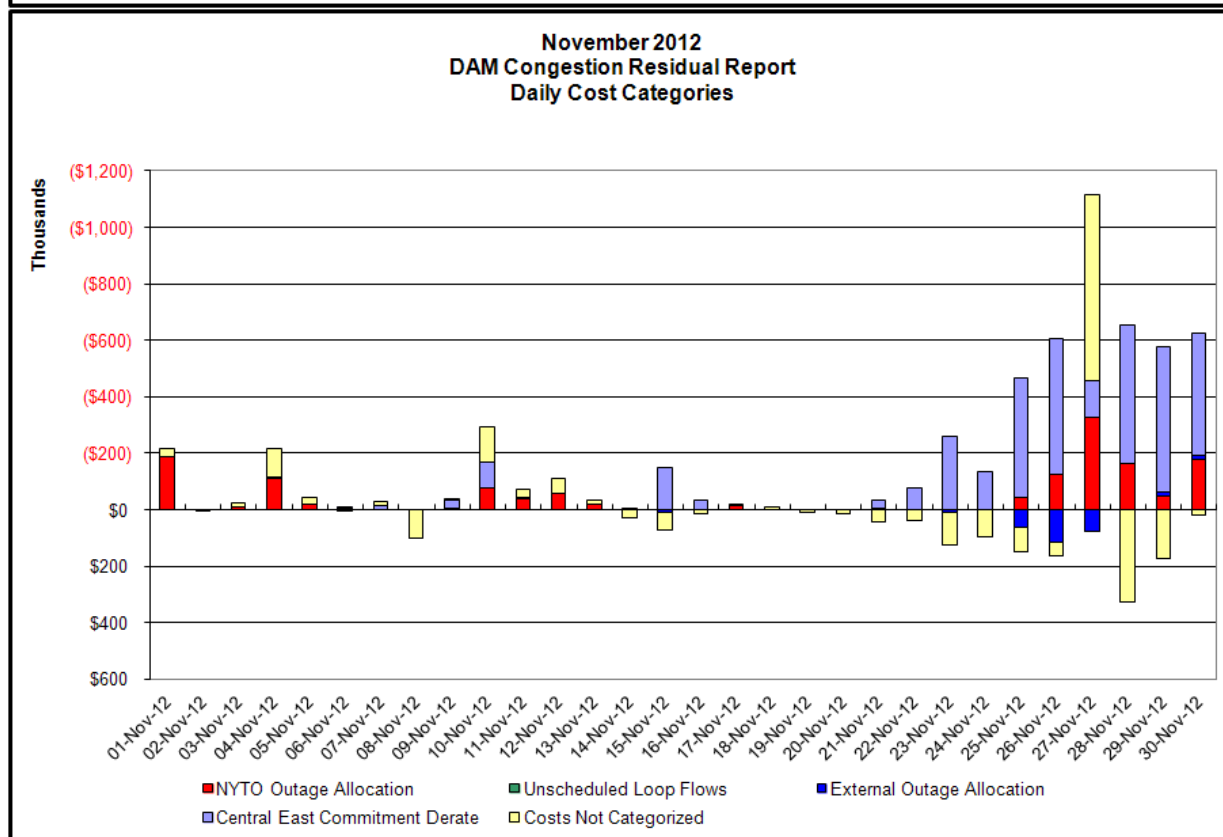
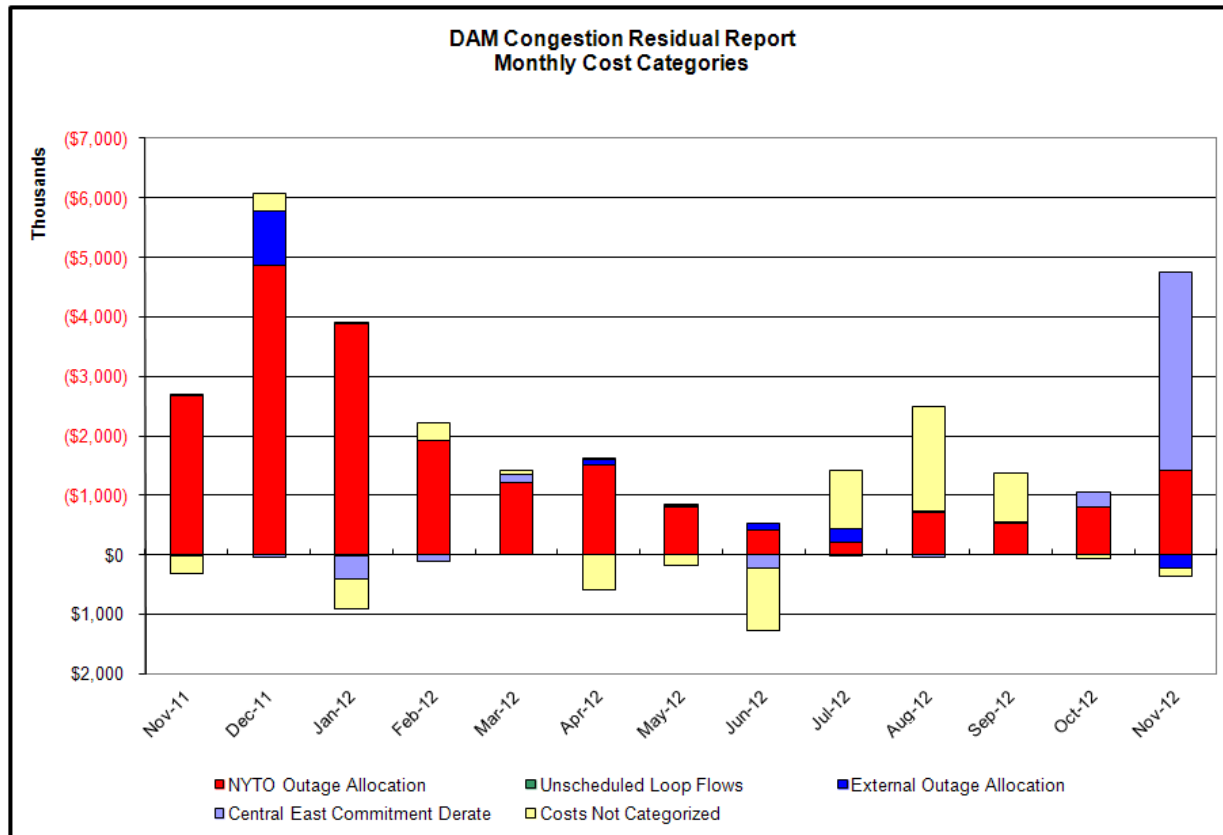
Event	Description	January Dates
Red	Early return Clarks Corners-Lafayette 345kV (#4-46)	18
	Early return East Garden City 345/138kV (#BK1,PAR1)	26,27
	Forced outage Dunwoodie_345_138kV (#BK S1_W73)	22-24
	Forced outage East Garden City Bank (#2)	23
	Forced outage Hudson-Farragut 345kV (#C3403)	24
	Forced outage Oakdale-Clarks Corners 345kV (#36)	21
	Forced outage Sprainbrook-Dunwoodie 138kV (#99942)	21
Cyan	Derate Astoria West/Queensbridge/Vernon	21
	Derate Central East	5,12,13,22-24
	Derate Dunwoodie-Shore Road 345kV (#Y50)	22-24
	Derate Dunwoodie-Shore Road 345kV (#Y50) for l/o SCB:SPBK (RNS2): Y49 & M29	21,23,24
	Derate Dysinger East	22,23
	Derate East 13th St.-Astoria Annex 345kV (#Q35M) for SCB FARR E. 8E W/ 10W O/S	23,24
	Derate East 13th St.-Astoria Annex 345kV (#Q35M) for SIN:B47, E.13th BK 16&17	18,22-24
	Derate Farragut-Hudson 138kV (#32077)	13,22-24
	Derate Gowanus-Goethals 345kV (#26)	18
	Derate Gowanus-Greenwood 138kV (#42232)	22,24
	Derate Greenwood-Vernon 138kV (#31231) for l/o TWR:GOETHALS 22,21,A2253	10,18,21
	Derate Rainey-Vernon 138kV (#36311)	22
	Derate West 49th Street-SprainBrook 345kV (#M52) for l/o \$SCB Dunwoodie 7 W/W73 O/S	22-24
	Derate West 49th Street-SprainBrook 345kV (#M52) for l/o SCB: SPBK (RS3): W75 & 99941	21,22
	NYCA DNI Ramp Limit	1,3-5,13,14,18,20-26,28,29,31
	Uprate Central East	1-5,9,12-14,18,20-31
	Uprate Dunwoodie-Shore Road 345kV (#Y50) for l/o SCB:SPBK (RNS2): Y49 & M29	18,20-22
	Uprate Dunwoodie-Shore Road 345kV (#Y50) for l/o Sprainbrook-East Garden City 345kV (#Y49)	20
	Uprate Fox Hills-Willow Brook 138kV (#29211)	12,14,18,22,31
	Uprate FreshKills-WillowBrook 138kV (#29212)	1
	Uprate Gowanus 138kV R14 for l/o TWR:Goethals	4,22,24-26,31
	Uprate Gowanus-Goethals 345kV (#26)	1
	Uprate Mott Haven-Dunwoodie 345kV (#72) for l/o Mott Haven-Dunwoodie 345kV (#71)	5
	Uprate Rainey Vernon 138kV (#36311)	27
	Uprate West 49th Street-SprainBrook 345kV (#M52) for l/o \$SCB Dunwoodie 7 W/W73 O/S	30
	Uprate West 49th Street-SprainBrook 345kV (#M52) for l/o SCB: SPBK (RS3): W75 & 99941	21
	Blue	HQ_CHAT DNI Ramp Limit
HQ_CHAT-NY Scheduling Limit		26
IESO_AC DNI Ramp Limit		3-5,21-26,30,31
IESO_AC-NY Scheduling Limit		13
NE_AC-NY Scheduling Limit		1-3,18,20-22,26-28,31
PJM_AC DNI Ramp Limit		3,5,18,20
Green	PJM_AC-NY Scheduling Limit	1,2
	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Central East	1,12,13,20-22
	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Dysinger East	21,22

Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Clockwise Lake Erie Loop Flows greater than 125 MW
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates	

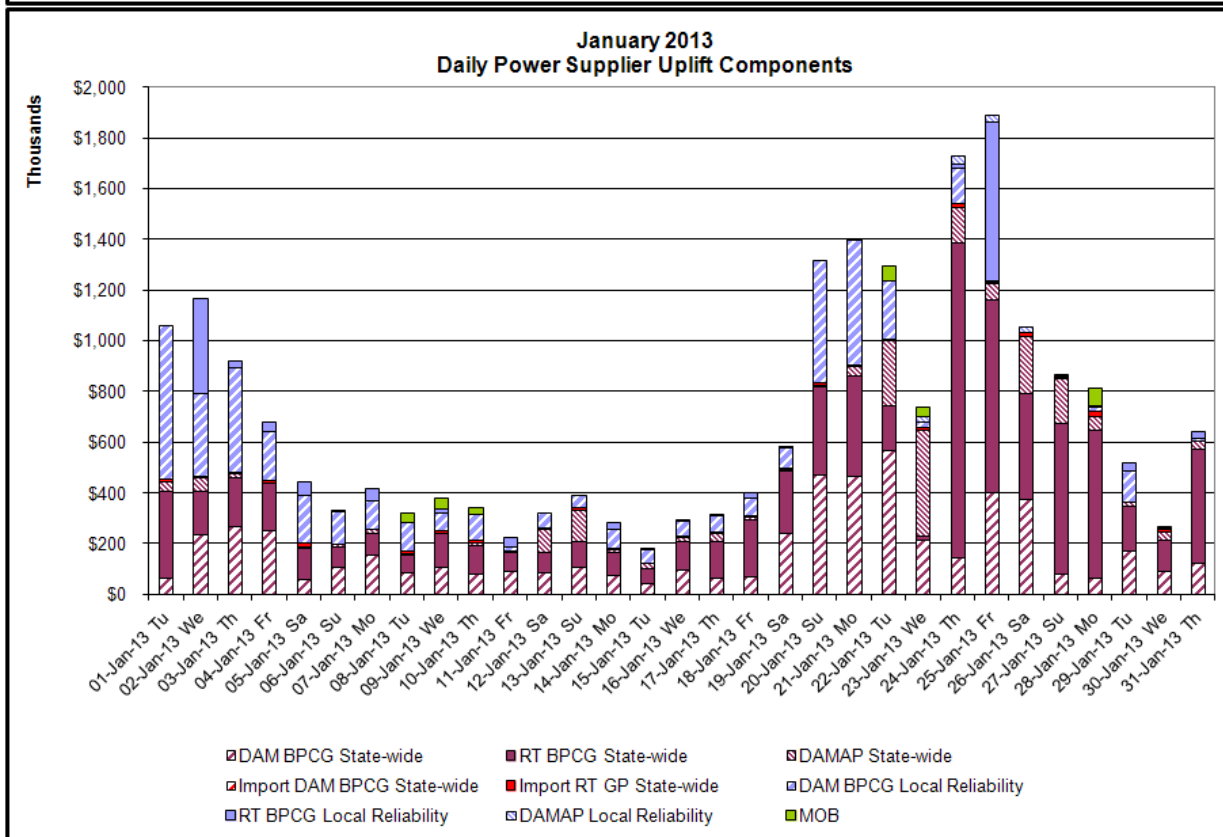
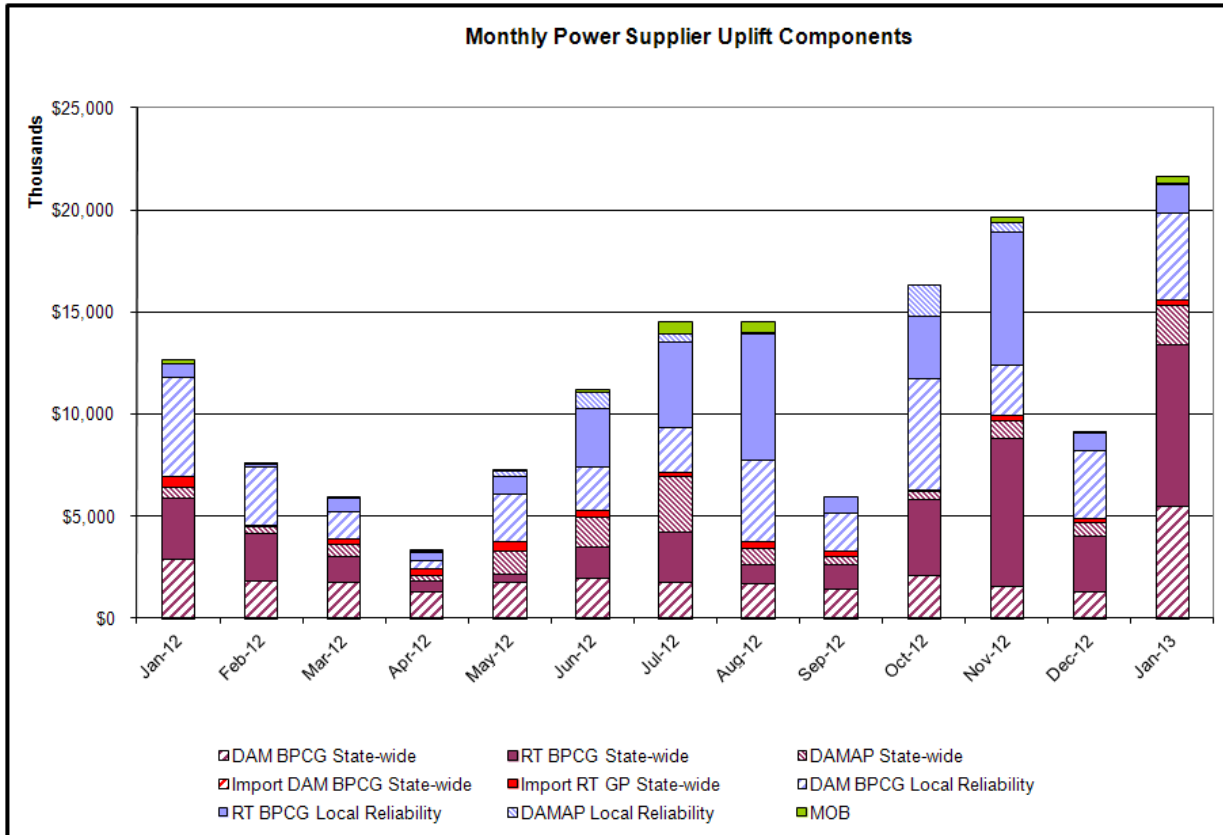
Monthly Balancing Market Congestion Report Assumptions/Notes

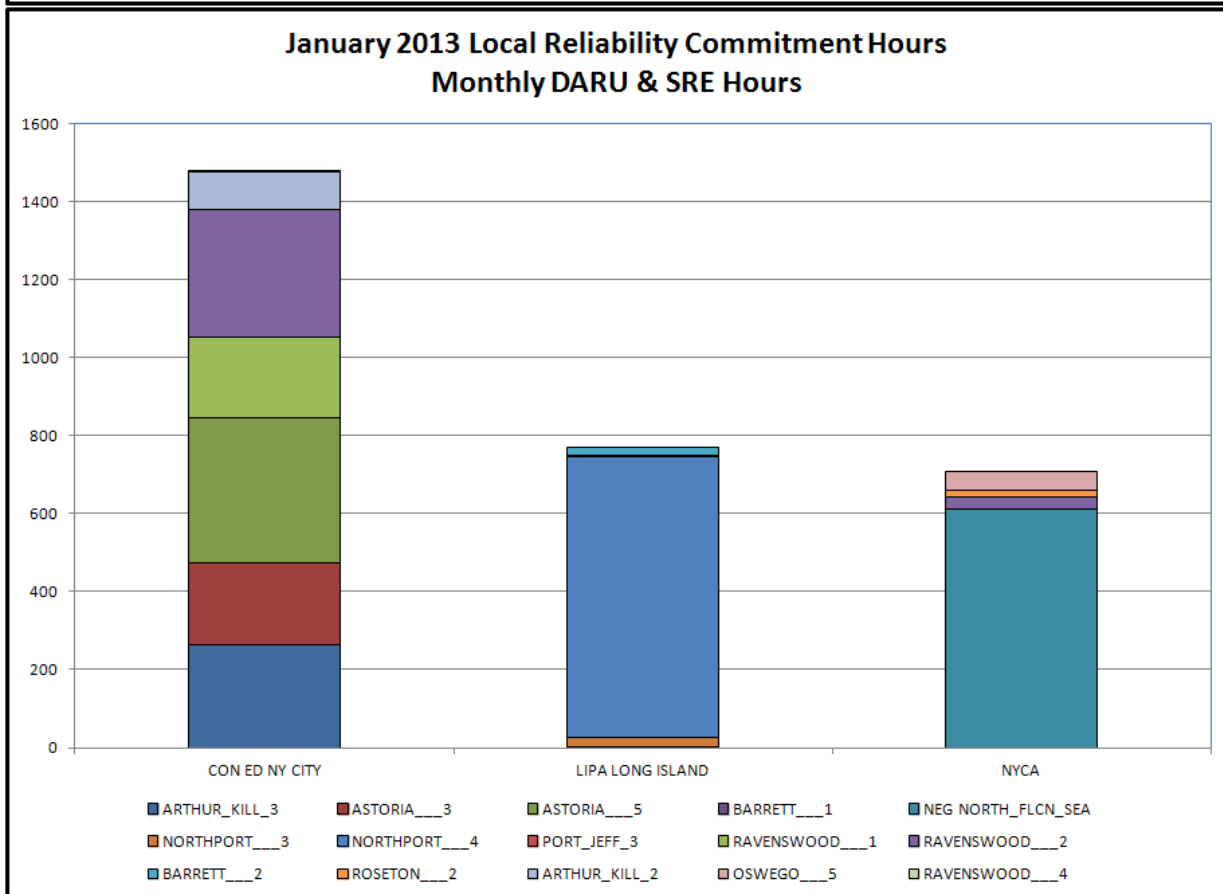
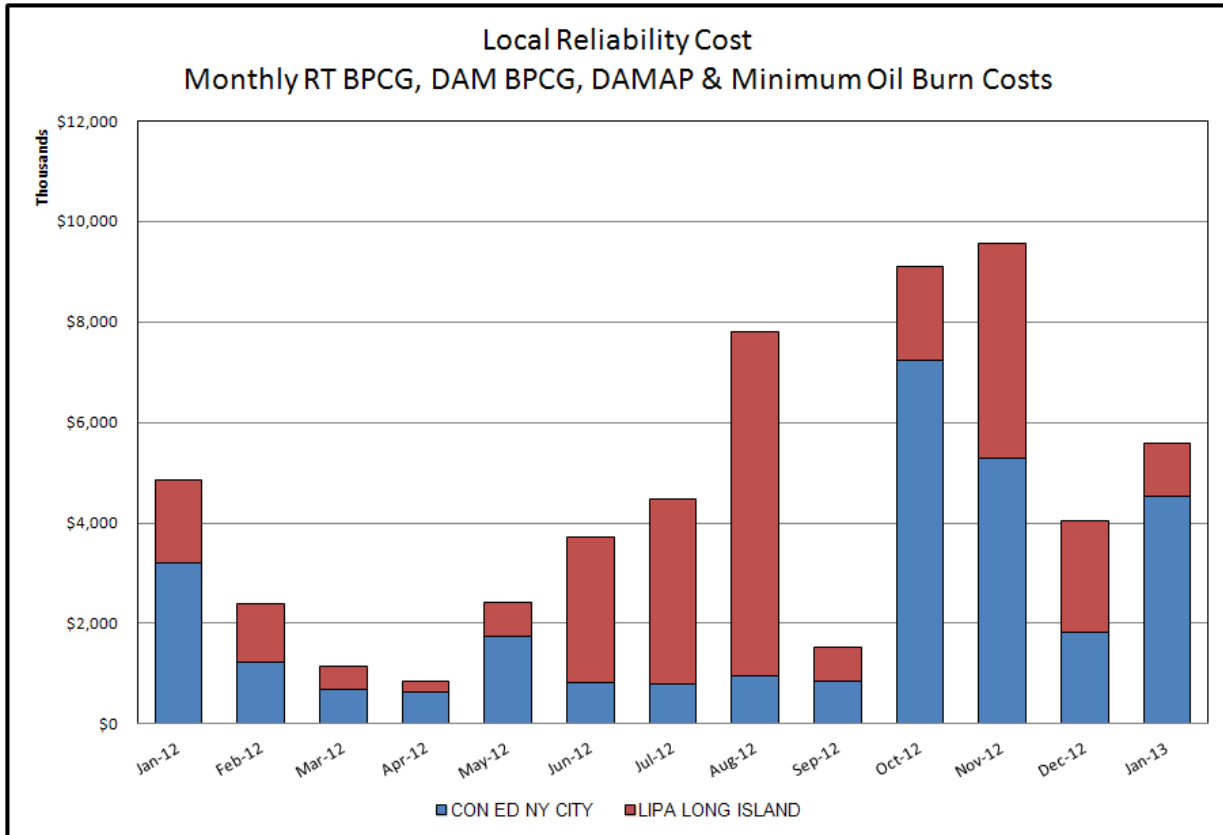
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

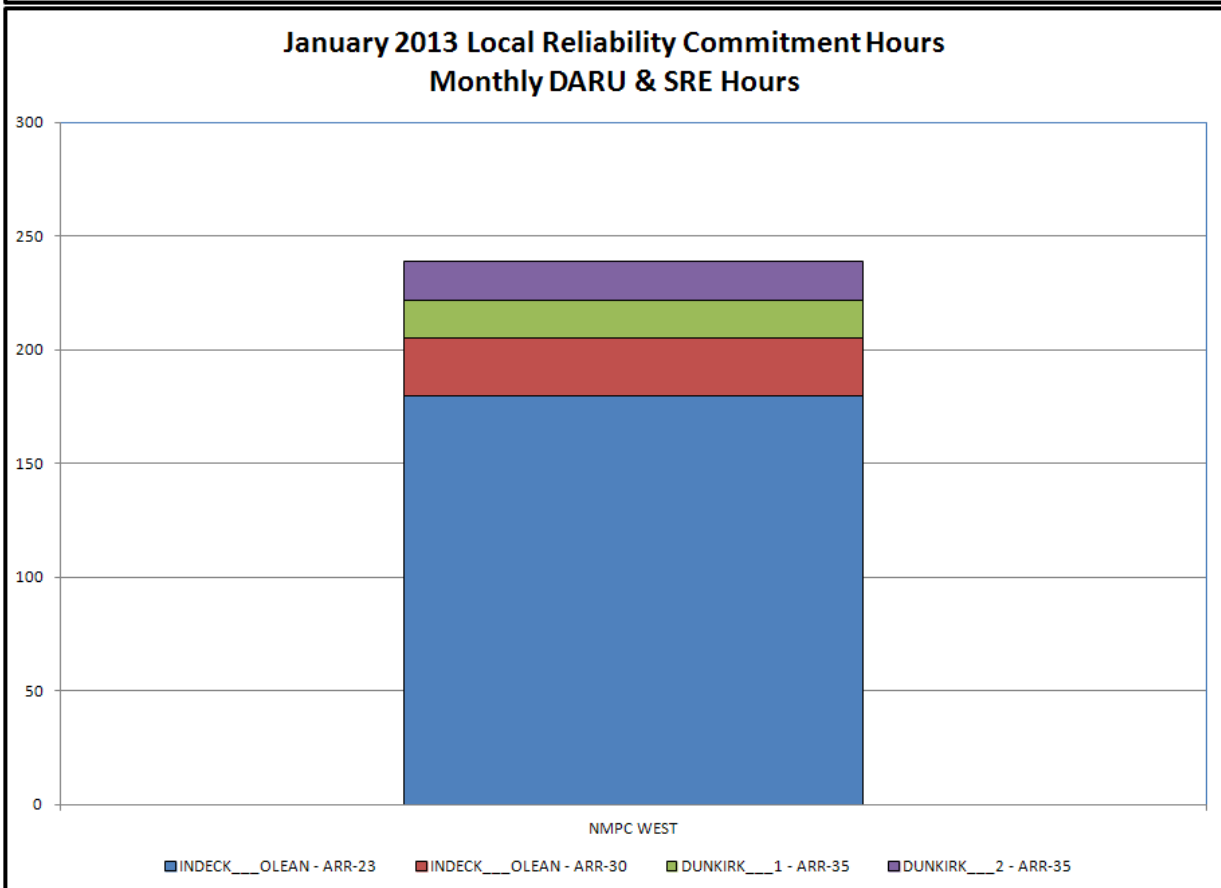
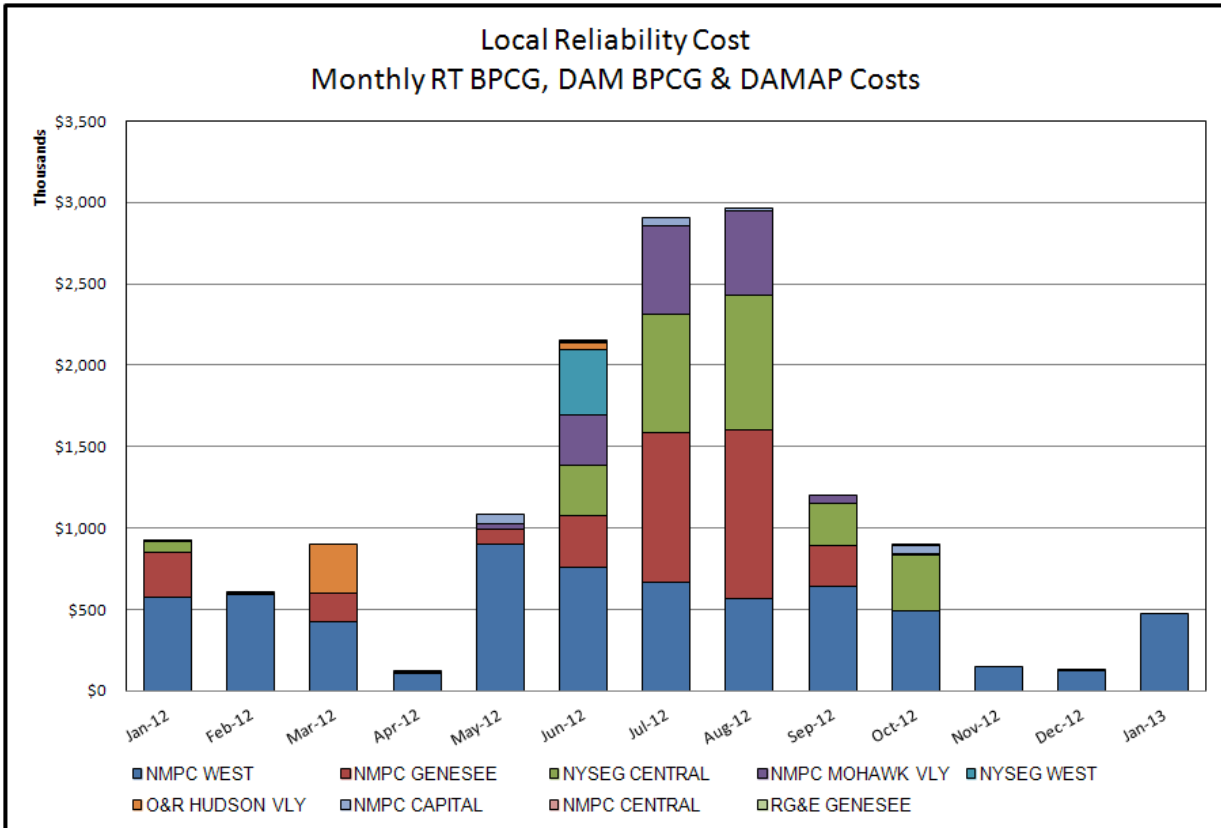


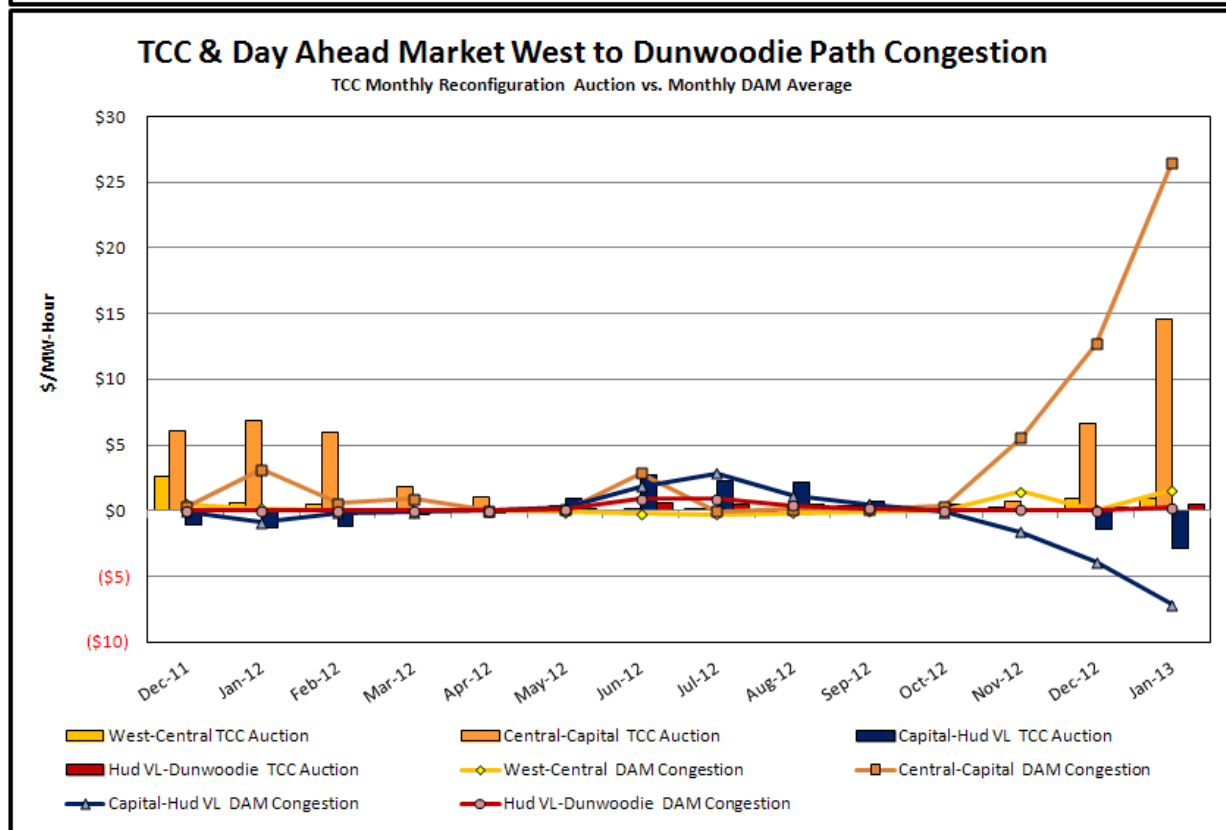
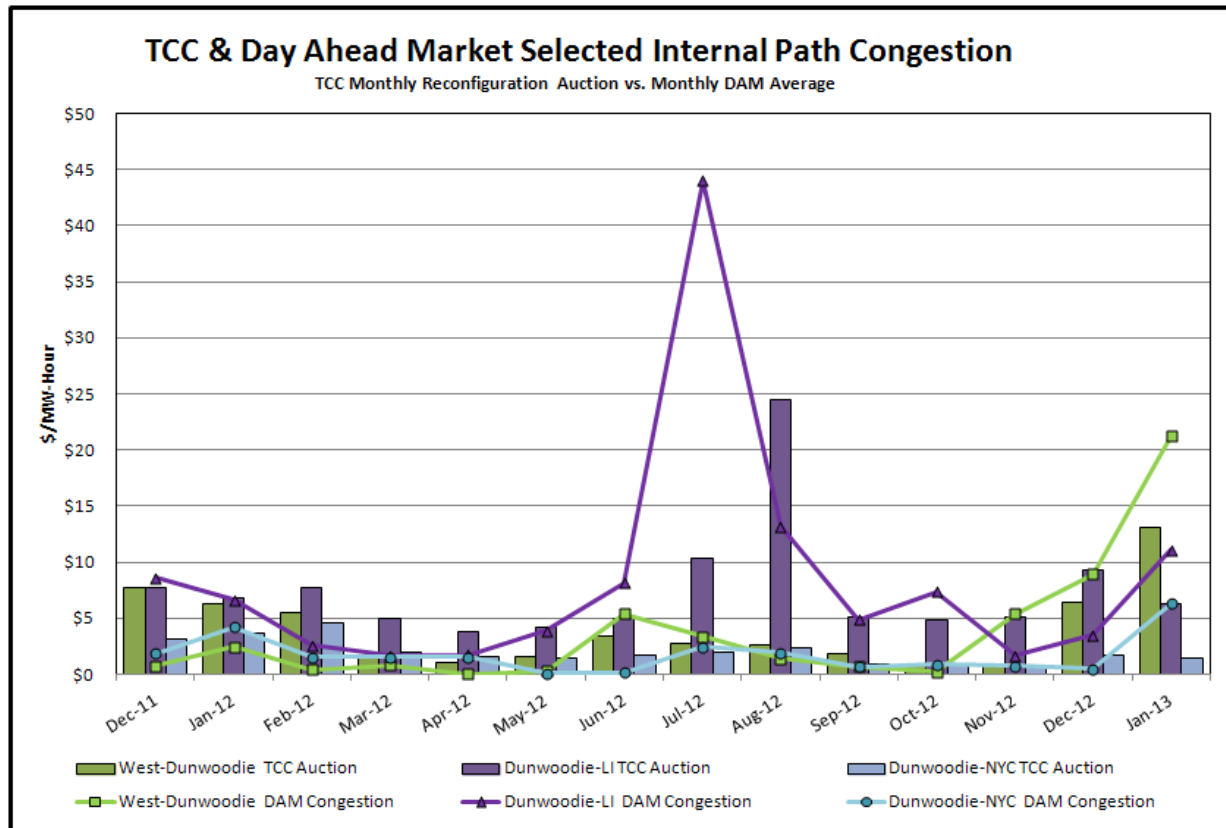
Day-Ahead Market Congestion Residual Categories

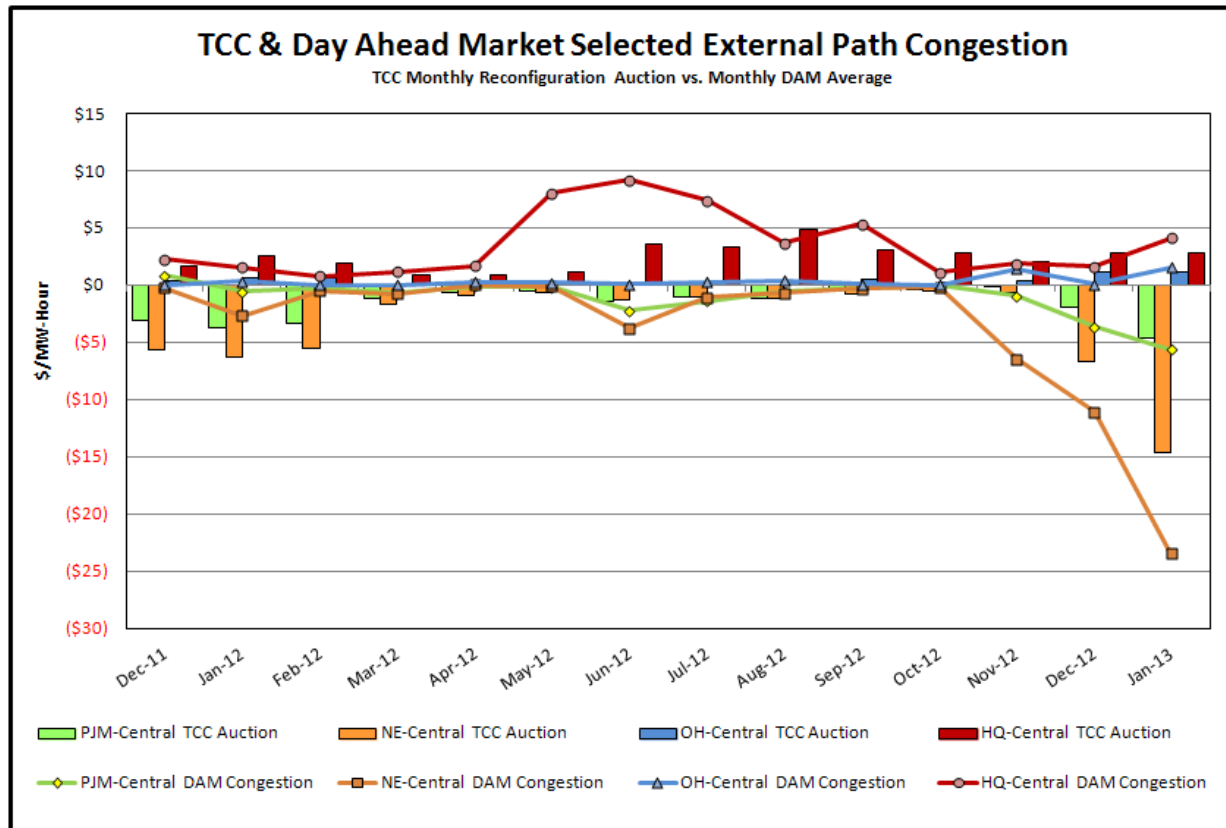
<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
Unscheduled Loop Flows	All TO by Monthly Allocation Factor	Residual impact of Lake Erie circulation, MW difference between the DAM and TCC Auction.	Lake Erie Loop Flow Assumptions
External Outage Allocation	All TO by Monthly Allocation Factor	Direct allocation to transmission equipment status change caused by change in status of external equipment.	Tie line required out-of-service by TO of neighboring control area.
Central East Commitment Derate	All TO by Monthly Allocation Factor	Reductions in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages.	

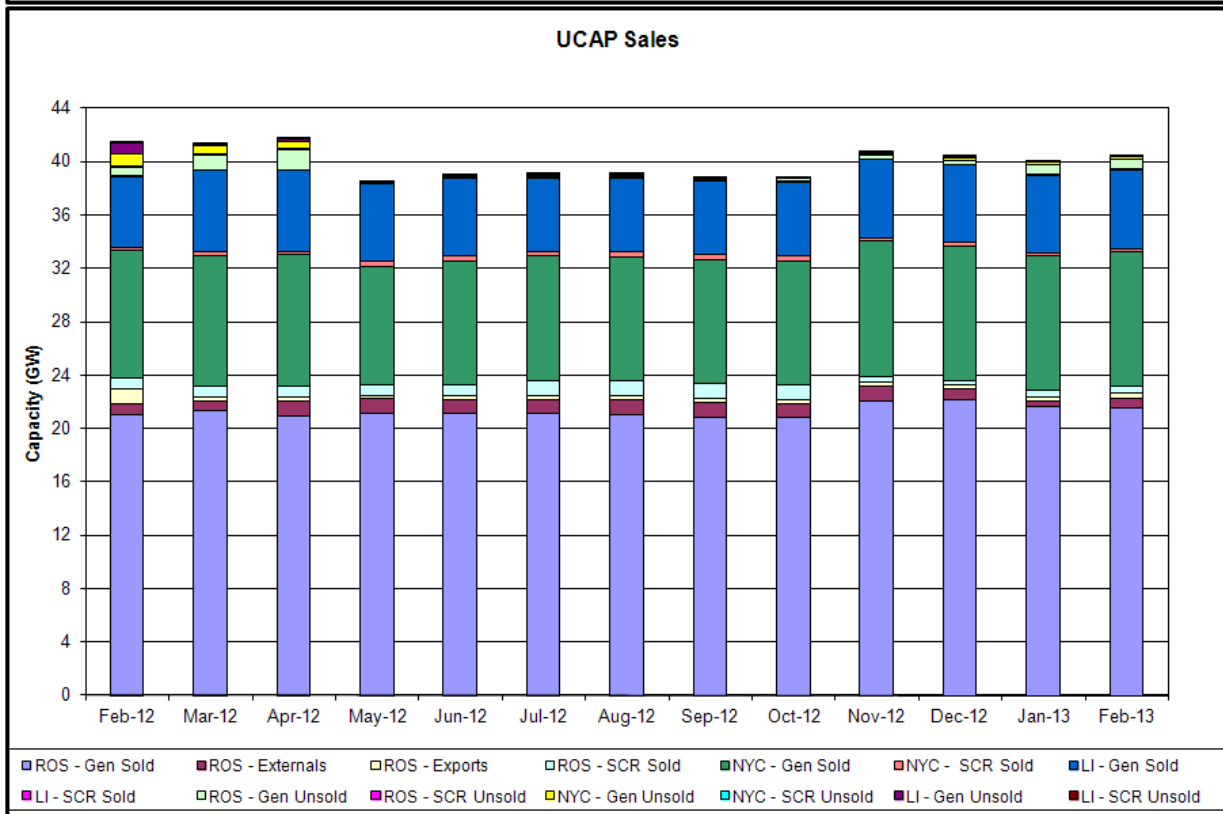
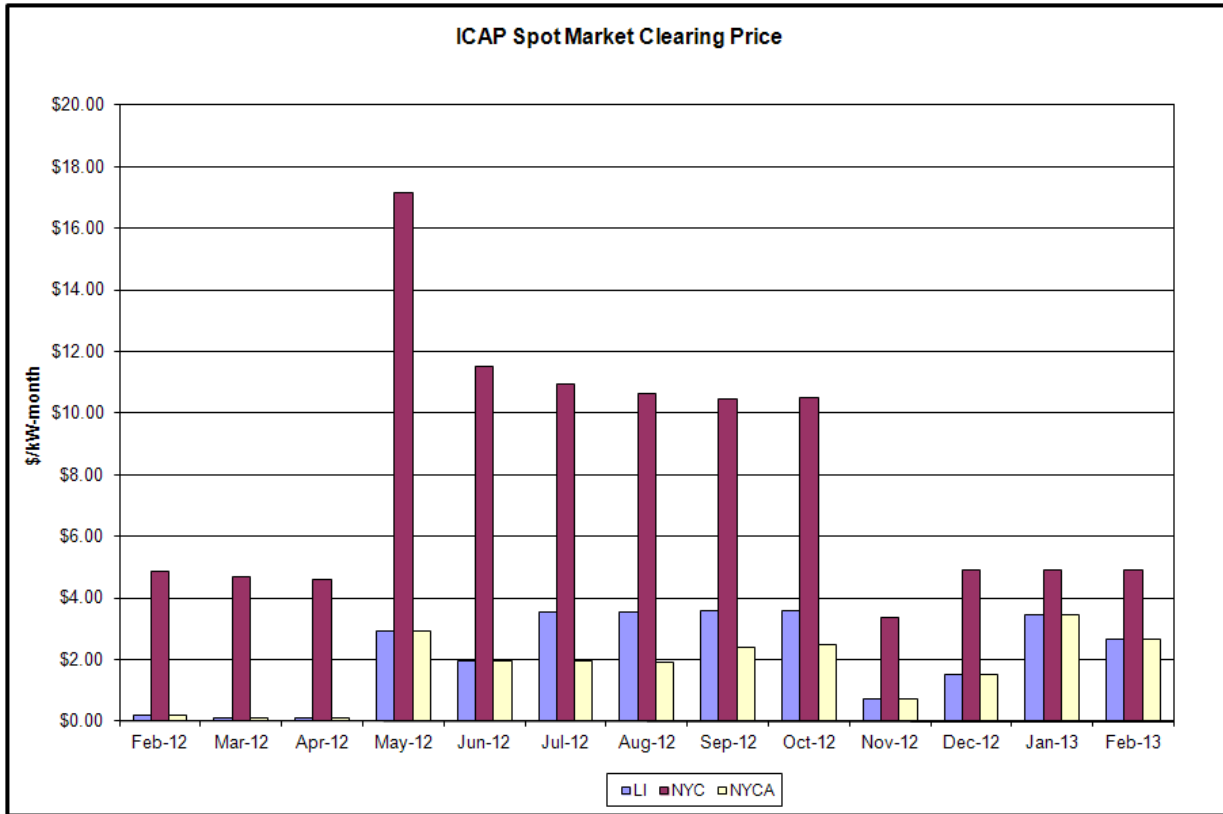








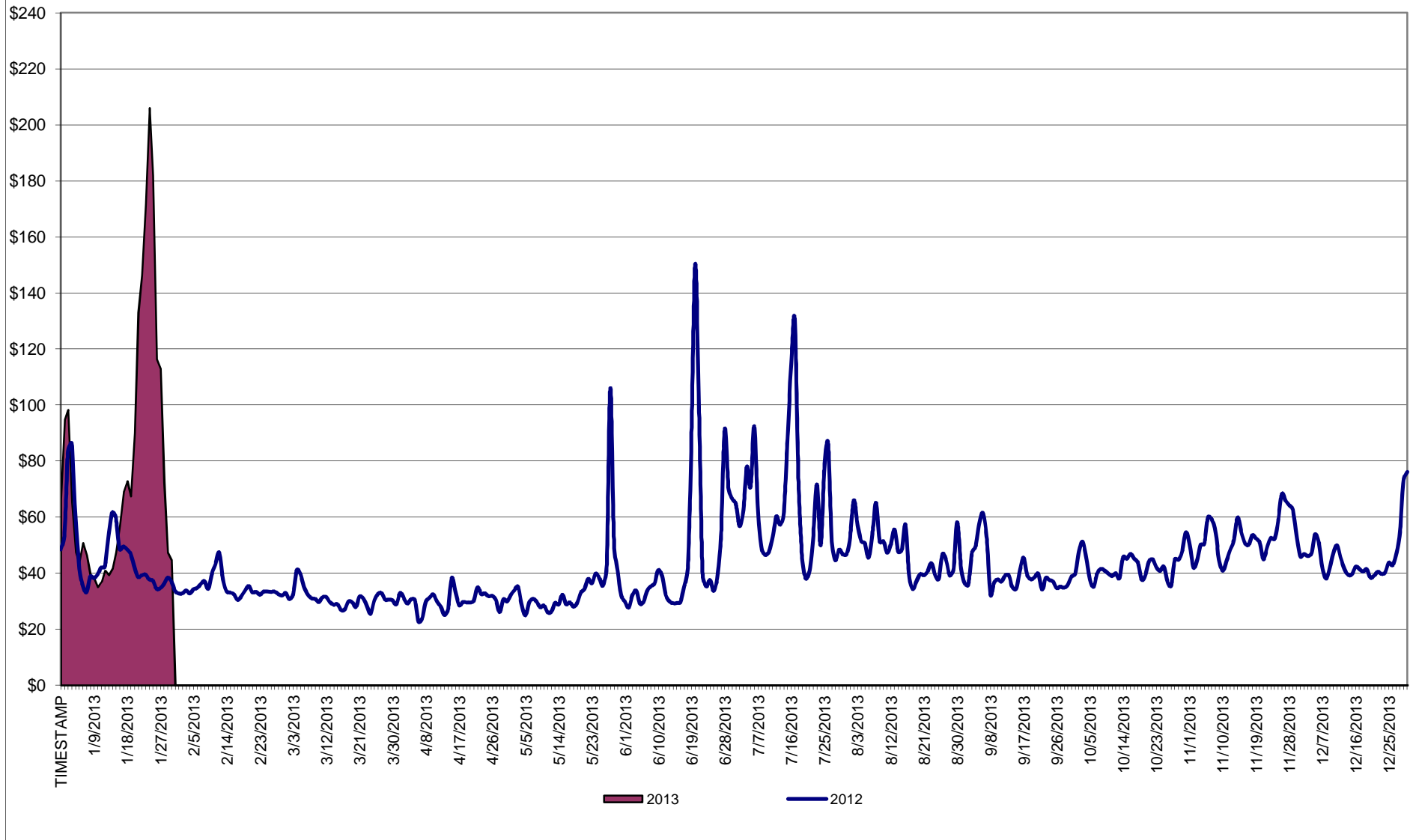




Market Performance Highlights for January 2013

- **LBMP for January is \$79.73/MWh, significantly higher than \$44.68/MWh in December 2012 and \$44.00/MWh in January 2012.**
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to December 2012.
- **January 2013 average monthly cost of \$82.18/MWh is a marked increase from \$46.75/MWh in January 2012.**
- **Average daily sendout is 453GWh/day in January; higher than 434GWh/day in December 2012 and 443 GWh/day in January 2012.**
- **Natural gas prices were dramatically higher compared to the previous month, and distillate prices were also higher.**
 - Natural Gas (Transco Z6 NY) was \$9.98/MMBtu, 109% higher than \$4.77/MMBtu in December. The increases were driven by price spikes of up to \$37/MMBtu.
 - Jet Kerosene Gulf Coast was \$22.82/MMBtu, up from \$21.82/MMBtu in December.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$22.14/MMBtu, up from \$21.95/MMBtu in December.
- **Uplift per MWh is higher compared to the previous month.**
 - Uplift (not including NYISO cost of operations) is \$0.08/MWh, higher than (\$0.13)/MWh in December.
 - The Local Reliability Share is \$0.41/MWh, higher than \$0.29 in December.
 - The Statewide Share is (\$0.33)/MWh, higher than (\$0.43)/MWh in December.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than December.

Daily NYISO Average Cost/MWh (Energy & Ancillary Services)*
 2012 Annual Average \$45.23/MWh
 January 2012YTD Average \$46.75/MWh
 January 2013YTD Average \$82.18/MWh



* Excludes ICAP payments.

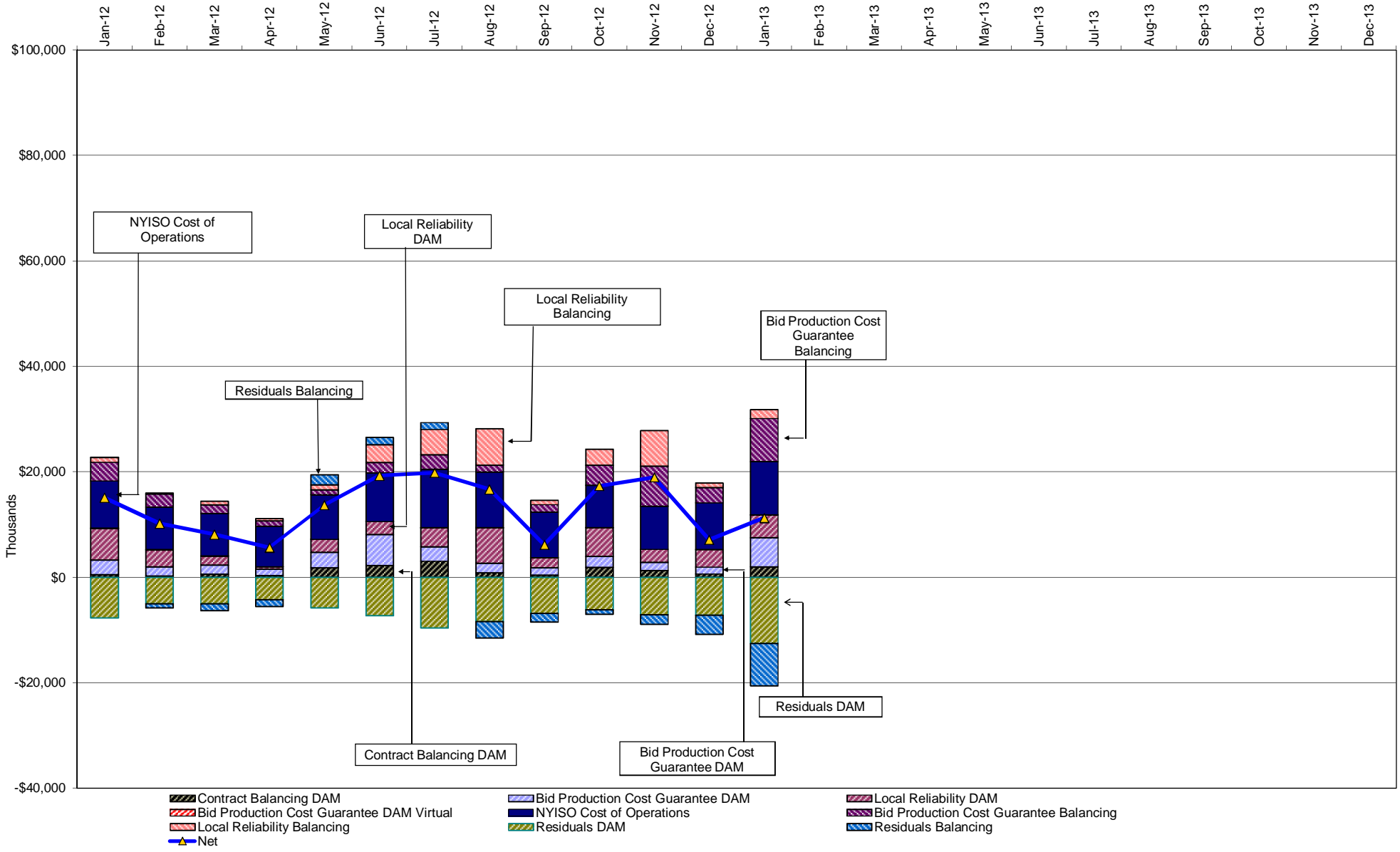
NYISO Average Cost/MWh (Energy and Ancillary Services) *
from the LBMP Customer point of view

2013	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	79.73											
NTAC	0.79											
Reserve	0.38											
Regulation	0.13											
NYISO Cost of Operations	0.69											
Uplift	0.08											
Uplift: Local Reliability Share	0.41											
Uplift: Statewide Share	(0.33)											
Voltage Support and Black Start	0.36											
Avg Monthly Cost	82.18											
Avg YTD Cost	82.18											
TSA \$ per NYC MWh	0.00											
2012	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	44.00	32.45	28.98	28.31	34.68	47.37	63.80	46.24	39.59	39.28	50.15	44.68
NTAC	0.85	0.80	0.68	0.71	0.72	0.77	0.58	0.65	0.47	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	0.25
Regulation	0.10	0.08	0.13	0.12	0.09	0.15	0.15	0.12	0.09	0.10	0.11	0.09
NYISO Cost of Operations	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Uplift	0.44	0.17	0.00	(0.18)	(0.11)	0.61	0.23	0.22	(0.40)	0.71	0.79	(0.13)
Uplift: Local Reliability Share	0.49	0.27	0.19	0.07	0.25	0.42	0.49	0.83	0.20	0.66	0.69	0.29
Uplift: Statewide Share	(0.05)	(0.10)	(0.19)	(0.25)	(0.36)	0.19	(0.26)	(0.61)	(0.59)	0.05	0.10	(0.43)
Voltage Support and Black Start	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Avg Monthly Cost	46.75	34.75	31.19	30.29	36.52	50.27	66.14	48.46	41.00	42.10	53.21	46.74
Avg YTD Cost	46.75	41.12	37.96	36.09	36.18	38.89	44.26	44.91	44.50	44.29	45.10	45.23
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	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	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
TSA \$ per NYC MWh	0.00	0.00	0.00	0.13	0.00	1.45	0.38	1.59	0.15	0.00	0.00	0.00

* Excludes ICAP payments.
Market Mitigation and Analysis
Prepared: 2/6/2013 10:23 AM

Data reflects true-ups thru December 2012.

NYISO Dollar Flows - Uplift- OATT Schedule 1 components - Data through January 31, 2013



NYISO Markets Transactions

2013	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	15,140,096											
DAM LSE Internal LBMP Energy Sales	56%											
DAM External TC LBMP Energy Sales	4%											
DAM Bilateral - Internal Bilaterals	38%											
DAM Bilateral - Import/Non-LBMP Market Bilaterals	0%											
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%											
DAM Bilateral - Wheel Through Bilaterals	1%											
Balancing Energy Market MWh	-462,089											
Balancing Energy LSE Internal LBMP Energy Sales	-131%											
Balancing Energy External TC LBMP Energy Sales	33%											
Balancing Energy Bilateral - Internal Bilaterals	4%											
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%											
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	5%											
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%											
Transactions Summary												
LBMP	59%											
Internal Bilaterals	39%											
Import Bilaterals	0%											
Export Bilaterals	1%											
Wheels Through	1%											
Market Share of Total Load												
Day Ahead Market	103.1%											
Balancing Energy +	-3.1%											
Total MWh	14,678,007											
Average Daily Energy Sendout/Month GWh	453											

2012	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	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
DAM LSE Internal LBMP Energy Sales	58%	57%	58%	59%	61%	63%	65%	63%	61%	60%	62%	57%
DAM External TC LBMP Energy Sales	1%	1%	0%	1%	1%	1%	1%	1%	0%	1%	3%	3%
DAM Bilateral - Internal Bilaterals	38%	40%	40%	38%	36%	35%	32%	34%	37%	38%	33%	37%
DAM Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	2%	2%	2%	1%	1%	1%	1%	1%	1%	1%	1%
DAM Bilateral - Wheel Through Bilaterals	1%	0%	1%	1%	1%	1%	1%	1%	0%	0%	1%	1%
Balancing Energy Market MWh	-878,126	-816,828	-896,684	-371,022	-31,455	-534,794	-575,091	-528,572	-692,656	-759,328	15,462	-738,593
Balancing Energy LSE Internal LBMP Energy Sales	-110%	-111%	-110%	-126%	-561%	-129%	-126%	-138%	-121%	-125%	-1207%	-108%
Balancing Energy External TC LBMP Energy Sales	9%	7%	7%	20%	347%	22%	19%	30%	13%	19%	1212%	7%
Balancing Energy Bilateral - Internal Bilaterals	1%	1%	1%	4%	107%	8%	6%	4%	4%	3%	6%	0%
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	4%	3%	3%	7%	54%	3%	2%	2%	3%	3%	116%	3%
Balancing Energy Bilateral - Wheel Through Bilaterals	-3%	0%	-1%	-4%	-46%	-5%	0%	2%	1%	0%	-28%	-2%
Transactions Summary												
LBMP	57%	56%	55%	59%	61%	62%	65%	63%	59%	58%	65%	58%
Internal Bilaterals	41%	42%	43%	39%	36%	36%	33%	35%	39%	40%	33%	39%
Import Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	2%
Wheels Through	1%	0%	1%	1%	1%	1%	1%	1%	1%	0%	1%	1%
Market Share of Total Load												
Day Ahead Market	106.3%	106.5%	107.1%	103.1%	100.2%	103.7%	103.3%	103.2%	105.1%	106.0%	99.9%	105.3%
Balancing Energy +	-6.3%	-6.5%	-7.1%	-3.1%	-0.2%	-3.7%	-3.3%	-3.2%	-5.1%	-6.0%	0.1%	-5.3%
Total MWh	13,999,153	12,656,958	12,693,772	12,111,670	13,292,986	14,363,931	17,370,928	16,656,873	13,569,769	12,595,401	12,854,599	13,981,390
Average Daily Energy Sendout/Month GWh	443	431	407	396	420	471	551	529	447	398	410	434

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

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

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

NYISO Markets 2013 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<u>DAY AHEAD LBMP</u>												
Price *	\$69.17											
Standard Deviation	\$47.21											
Load Weighted Price **	\$72.17											
<u>RTC LBMP</u>												
Price *	\$73.69											
Standard Deviation	\$88.27											
Load Weighted Price **	\$77.52											
<u>REAL TIME LBMP</u>												
Price *	\$76.47											
Standard Deviation	\$83.80											
Load Weighted Price **	\$81.71											
Average Daily Energy Sendout/Month GWh	453											

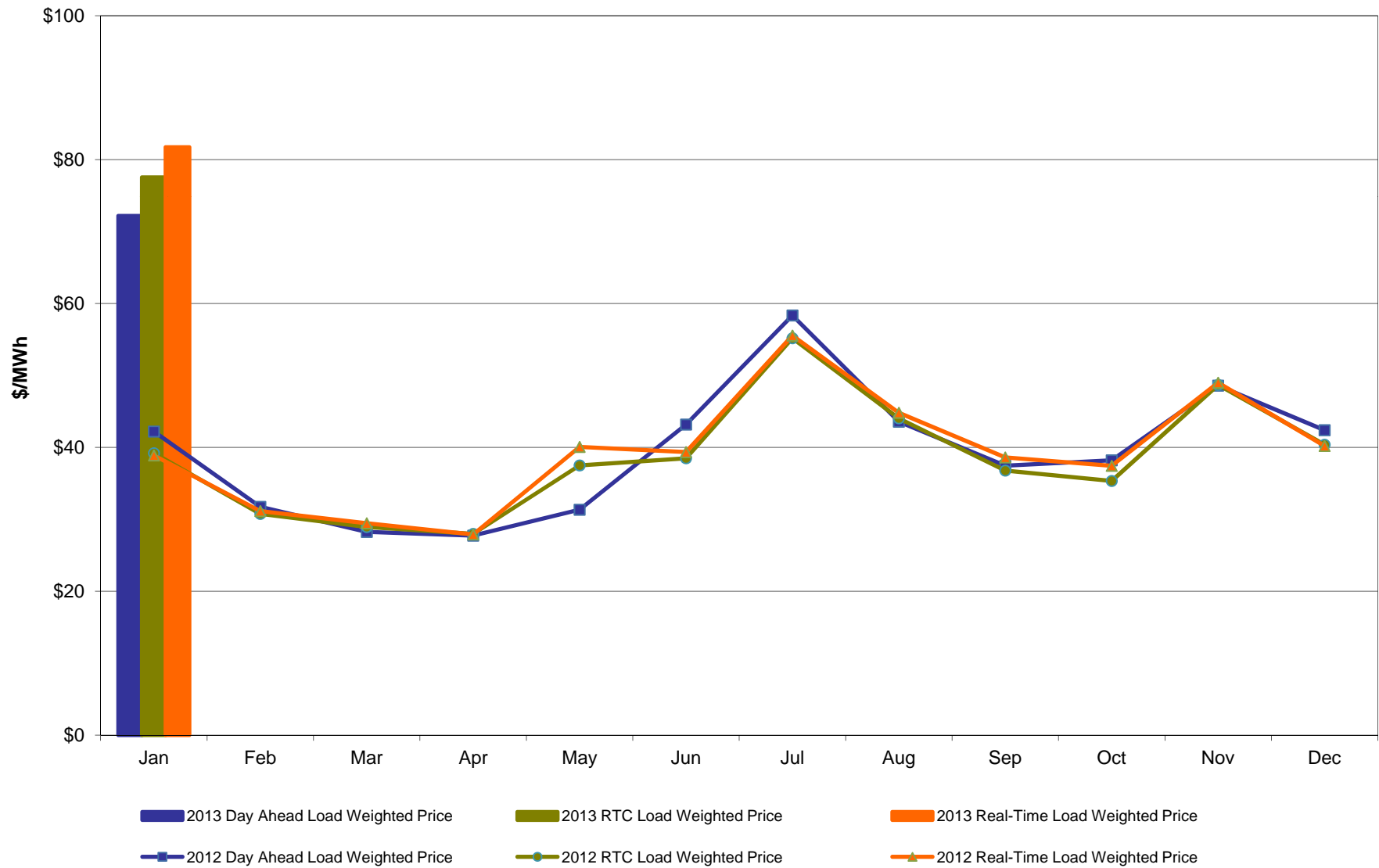
NYISO Markets 2012 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<u>DAY AHEAD LBMP</u>												
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
<u>RTC LBMP</u>												
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
<u>REAL TIME LBMP</u>												
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

* Average zonal load weighted prices.

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

NYISO Monthly Average Internal LBMPs 2012- 2013

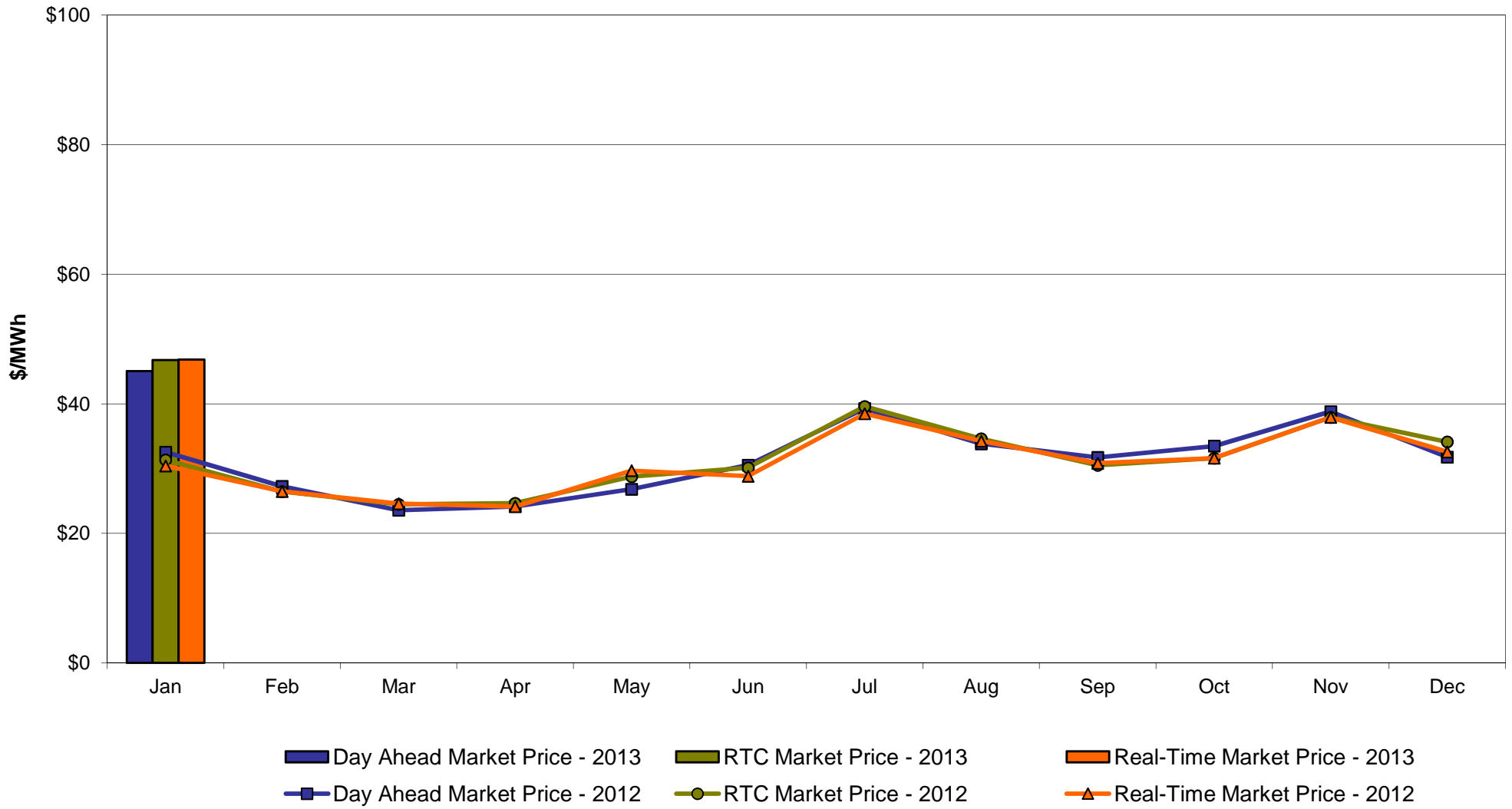


January 2013 Zonal LBMP Statistics for NYISO (\$/MWh)

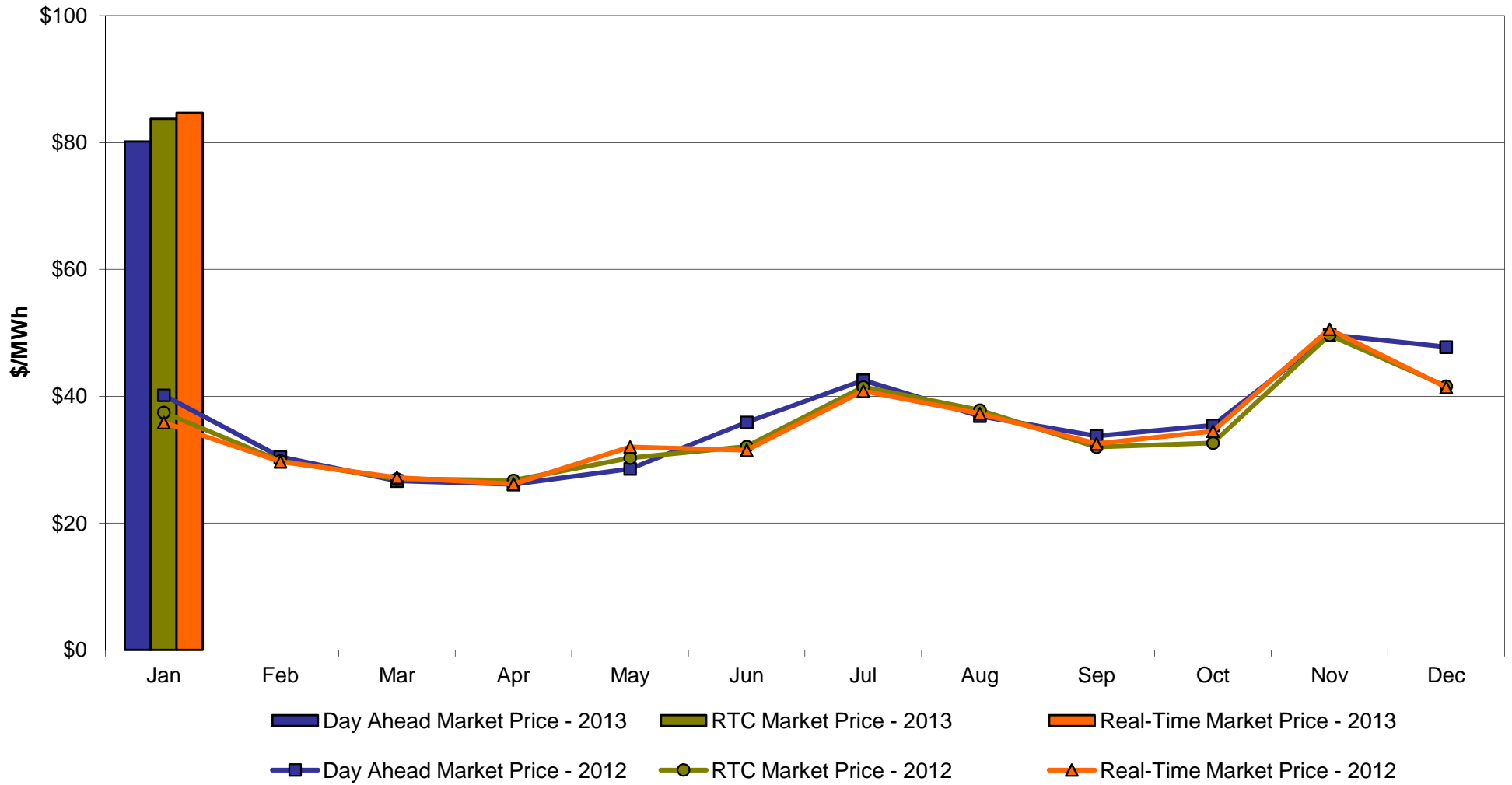
	<u>WEST Zone A</u>	<u>GENESEE Zone B</u>	<u>NORTH Zone D</u>	<u>CENTRAL Zone C</u>	<u>MOHAWK VALLEY Zone E</u>	<u>CAPITAL Zone F</u>	<u>HUDSON VALLEY Zone G</u>	<u>MILLWOOD Zone H</u>	<u>DUNWOODIE Zone I</u>	<u>NEW YORK CITY Zone J</u>	<u>LONG ISLAND Zone K</u>
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	45.06	47.48	46.36	49.86	52.25	80.19	74.14	74.70	74.53	81.20	87.47
Standard Deviation	30.72	37.79	41.88	38.92	41.89	51.29	48.17	48.60	48.50	57.16	60.36
<u>RTC LBMP</u>											
Unweighted Price *	46.76	49.42	46.60	51.86	54.60	83.74	76.53	77.05	76.80	87.00	101.72
Standard Deviation	59.71	69.10	73.94	71.12	75.85	108.31	94.74	95.52	94.96	111.83	118.55
<u>REAL TIME LBMP</u>											
Unweighted Price *	46.81	49.34	46.19	51.77	54.41	84.69	77.10	77.65	77.44	91.21	111.75
Standard Deviation	54.12	65.25	69.97	66.71	71.15	93.65	83.01	83.62	83.21	111.94	134.44
	<u>ONTARIO IESO Zone O</u>	<u>HYDRO QUEBEC (Wheel) Zone M</u>	<u>HYDRO QUEBEC (Import/Export) Zone M</u>	<u>PJM Zone P</u>	<u>NEW ENGLAND Zone N</u>	<u>CROSS SOUND CABLE Controllable Line</u>	<u>NORTHPORT- NORWALK Controllable Line</u>	<u>NEPTUNE Controllable Line</u>	<u>LINDEN VFT Controllable Line</u>	<u>Dennison Controllable Line</u>	
<u>DAY AHEAD LBMP</u>											
Unweighted Price *	44.41	46.18	45.83	54.73	77.49	86.29	82.69	85.88	74.04	45.87	
Standard Deviation	30.51	41.43	41.54	37.96	49.49	59.40	54.66	59.14	50.89	41.80	
<u>RTC LBMP</u>											
Unweighted Price *	42.57	44.02	43.77	51.91	73.49	92.26	91.70	90.88	73.69	45.09	
Standard Deviation	45.53	55.90	55.91	52.68	69.96	90.28	89.98	89.64	84.49	60.45	
<u>REAL TIME LBMP</u>											
Unweighted Price *	46.65	46.92	46.79	56.61	80.65	100.82	87.71	98.83	82.10	47.94	
Standard Deviation	55.56	69.13	69.19	64.70	80.94	106.30	87.85	104.35	107.82	70.28	

* Straight LBMP averages

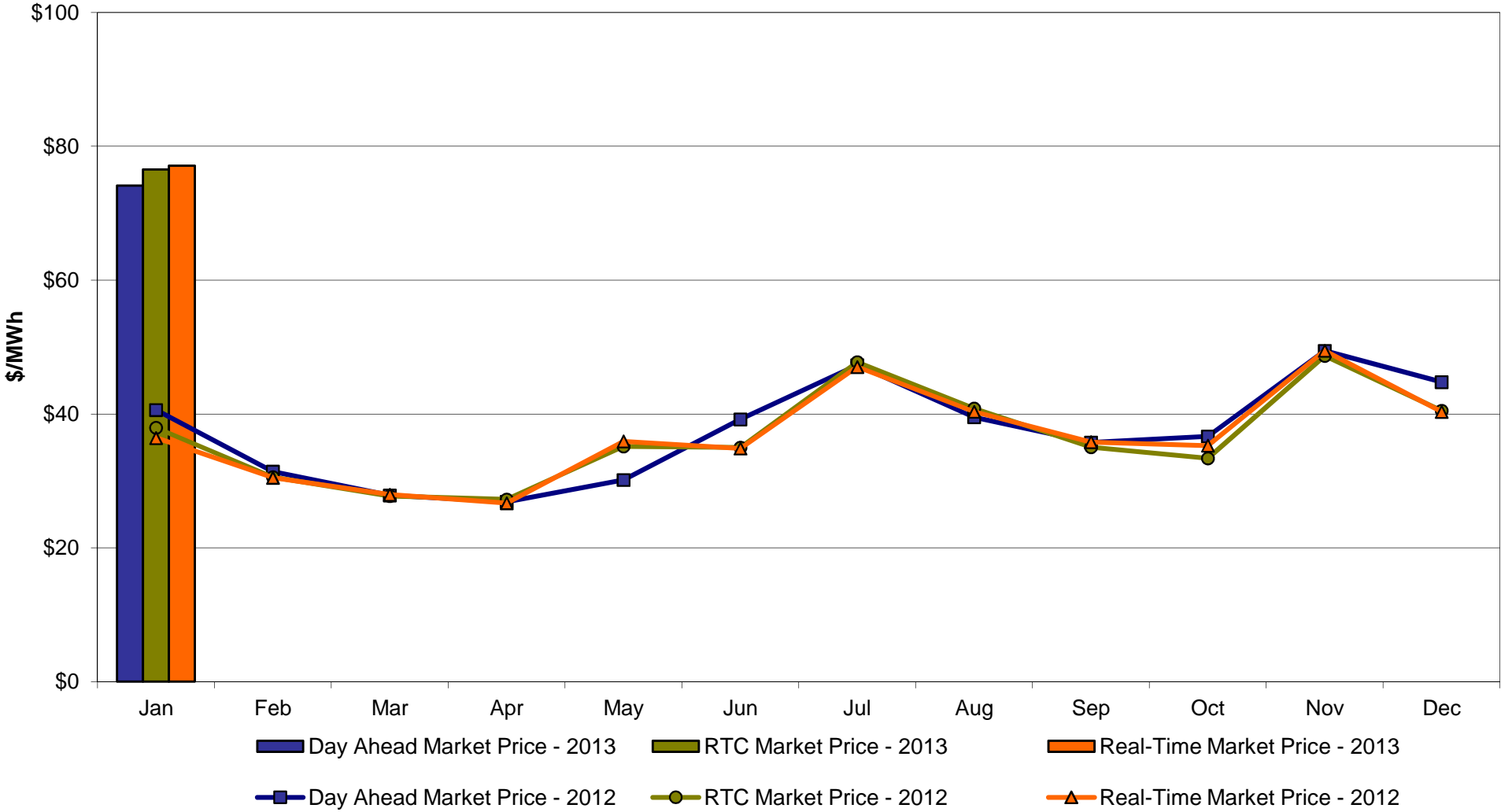
**West Zone A
Monthly Average LBMP Prices 2012 - 2013**



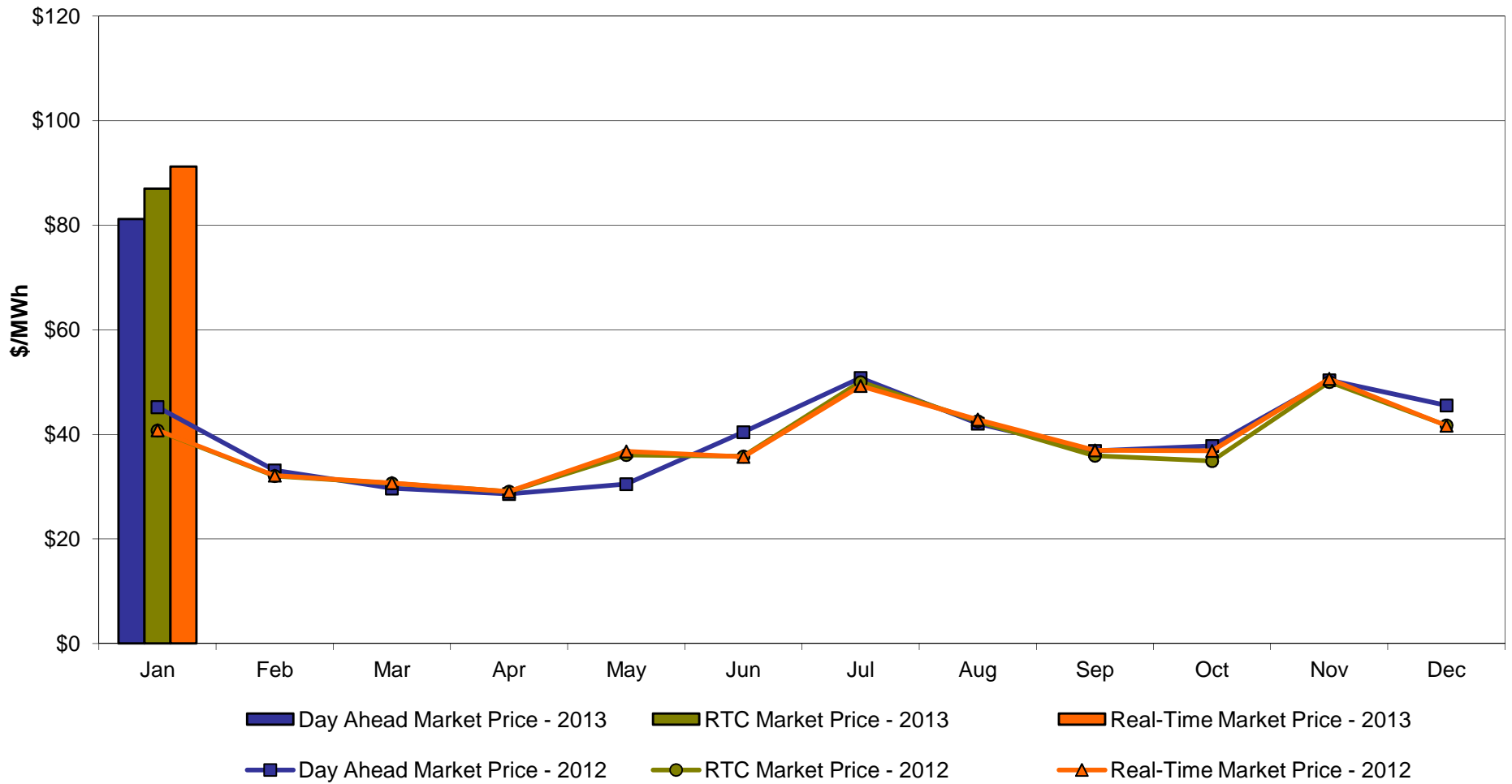
**Capital Zone F
Monthly Average LBMP Prices 2012 - 2013**



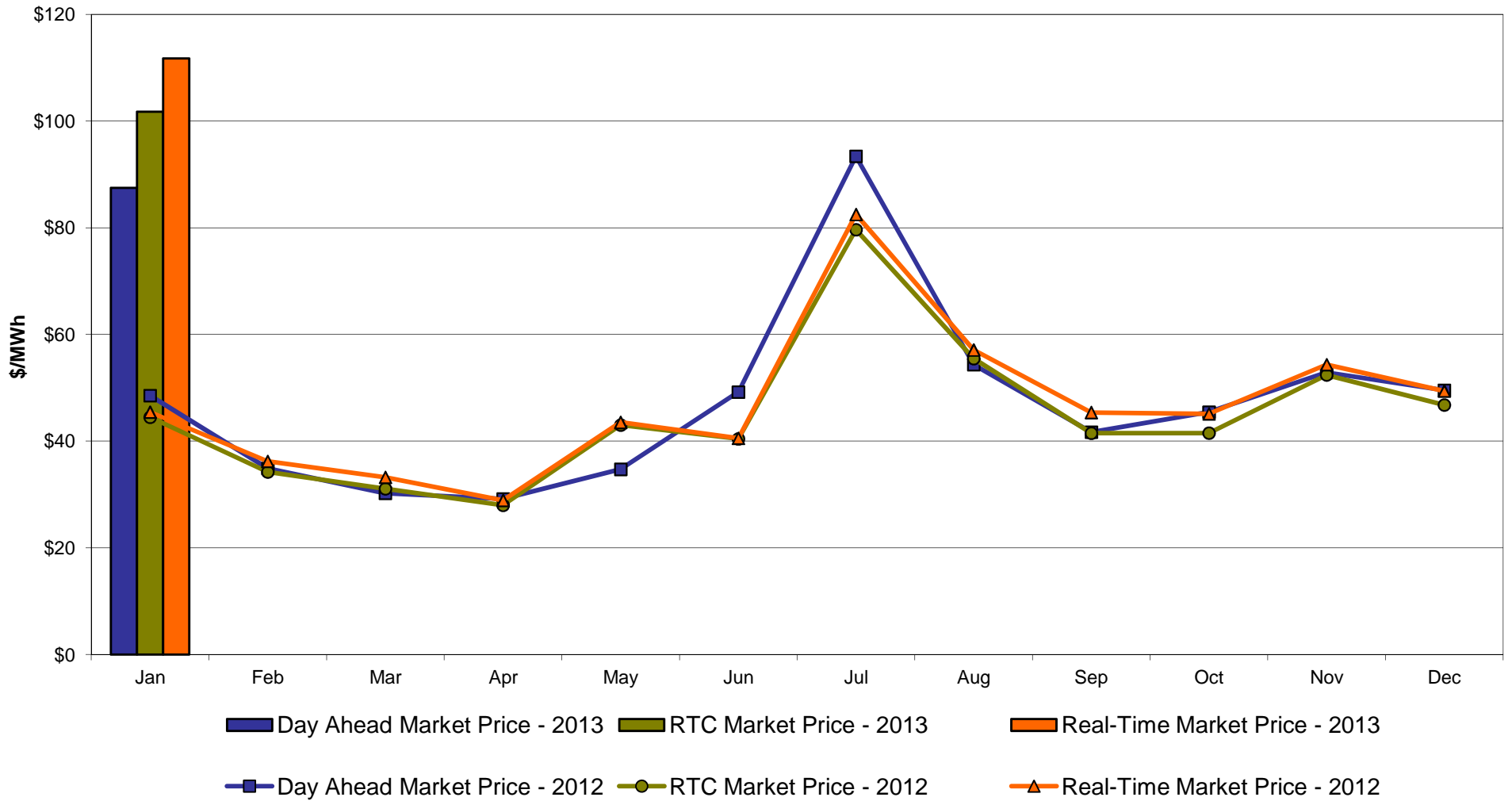
Hudson Valley Zone G Monthly Average LBMP Prices 2012 - 2013



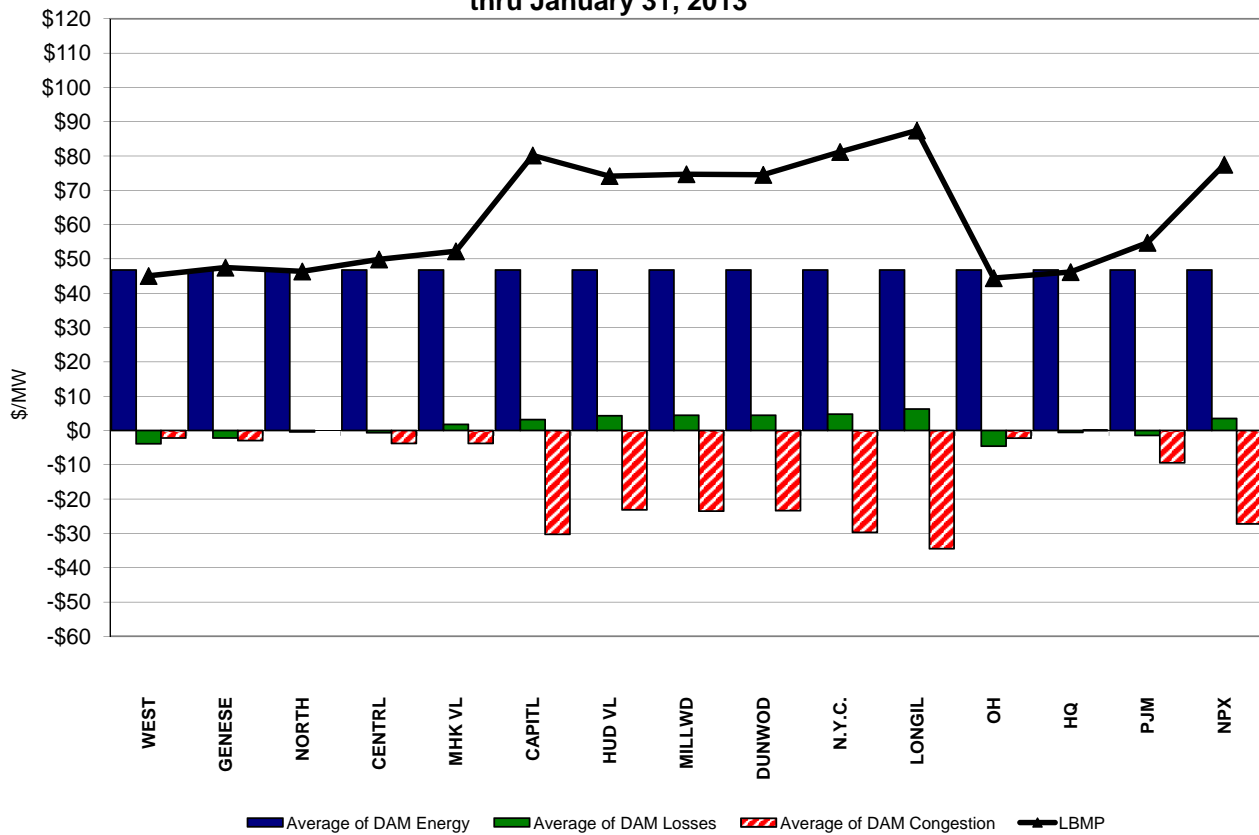
**NYC Zone J
Monthly Average LBMP Prices 2012 - 2013**



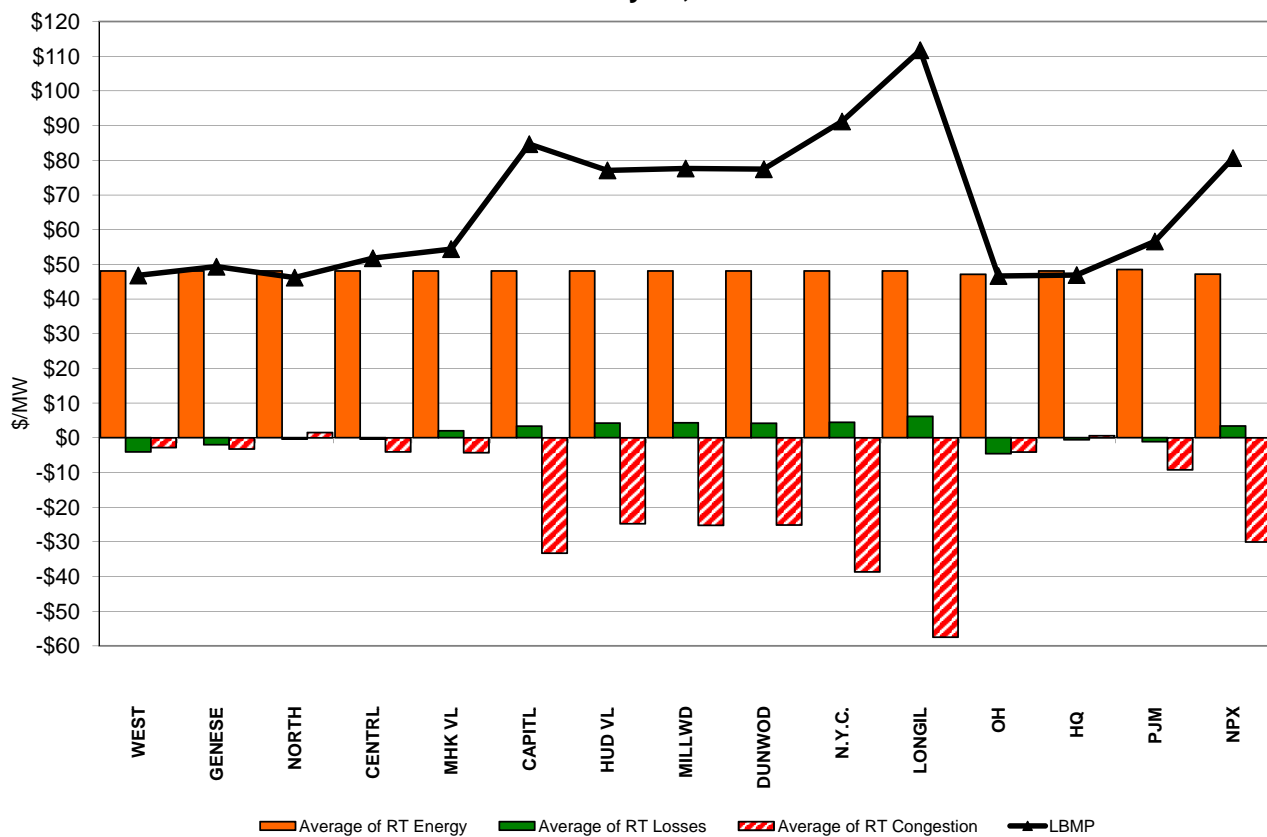
Long Island Zone K Monthly Average LBMP Prices 2012 - 2013



**DAM Zonal Unweighted Monthly Average LBMP Components
thru January 31, 2013**

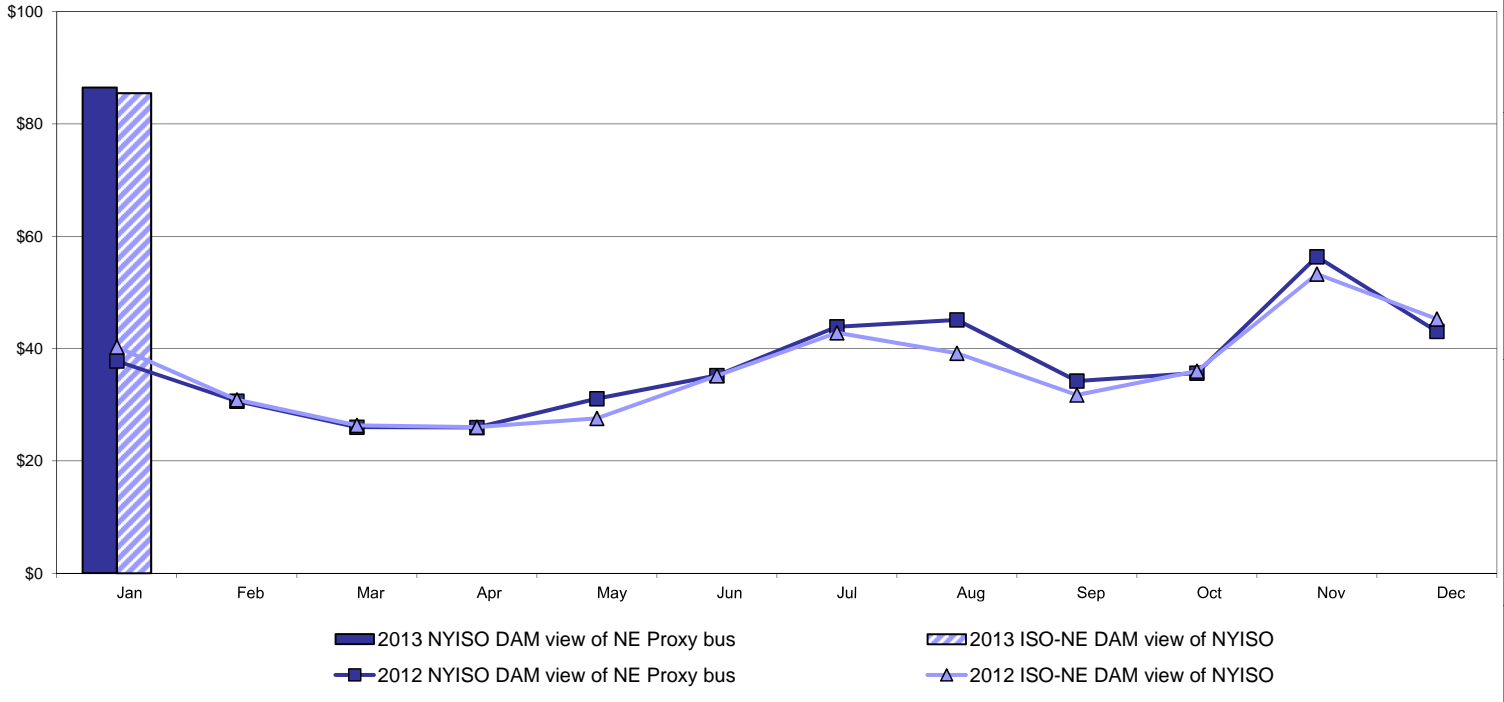


**RT Zonal Unweighted Monthly Average LBMP Components
thru January 31, 2013**

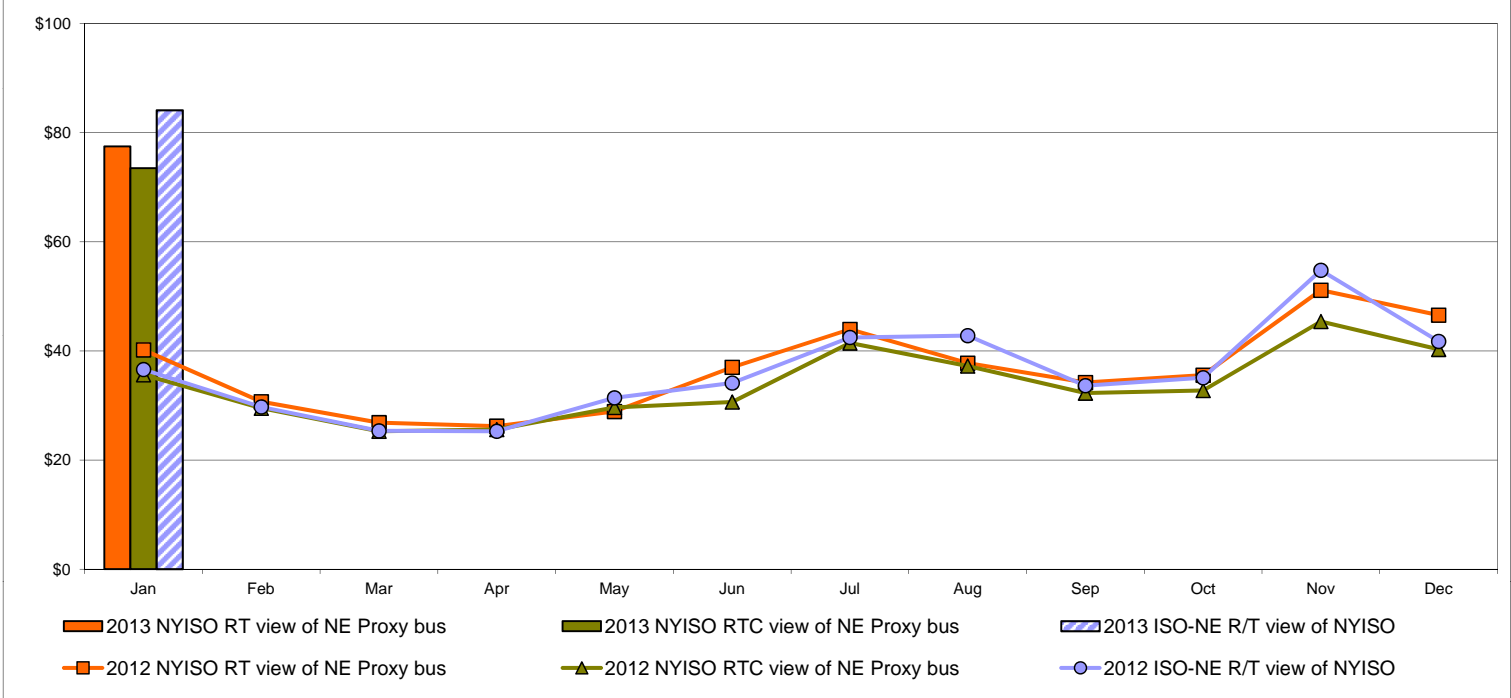


External Comparison ISO-New England

Day Ahead Market External Zone Comparison: ISO-NE (\$/MWh)

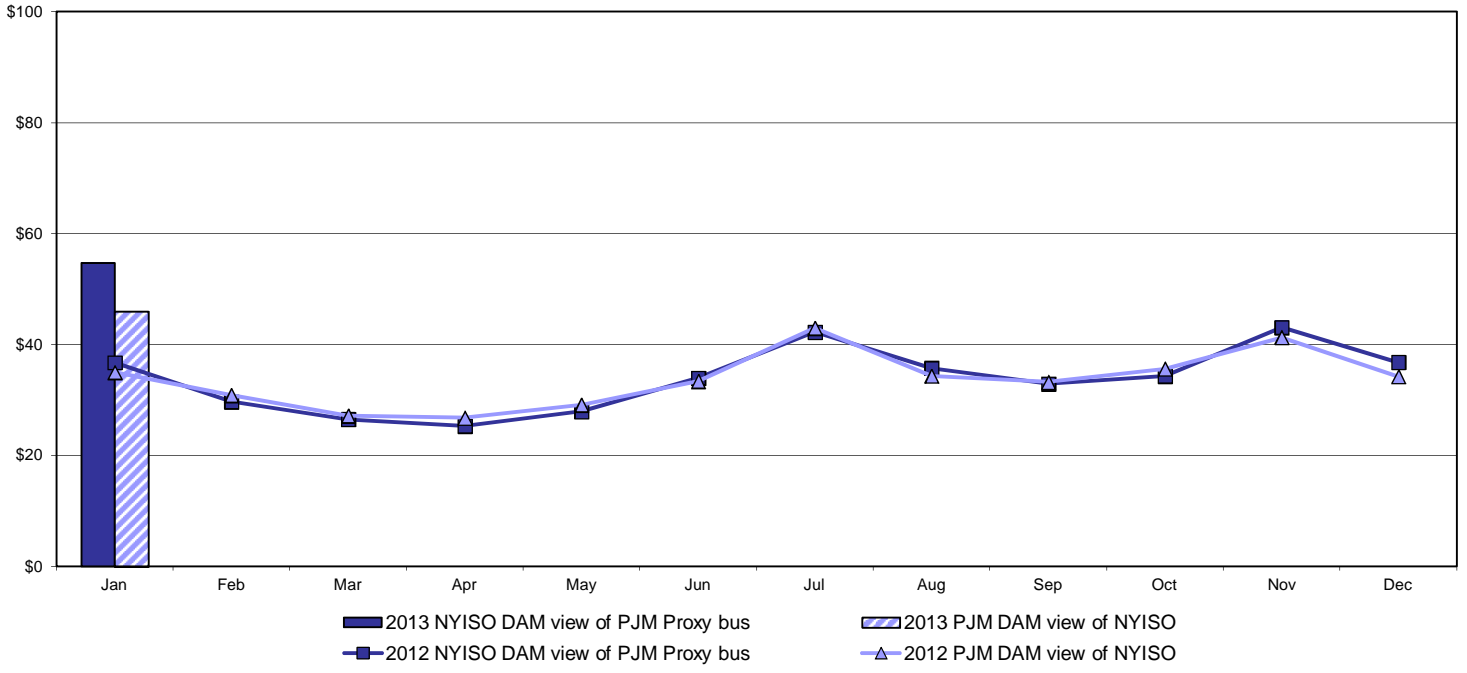


Real Time Market External Zone Comparison: ISO-NE (\$/MWh)

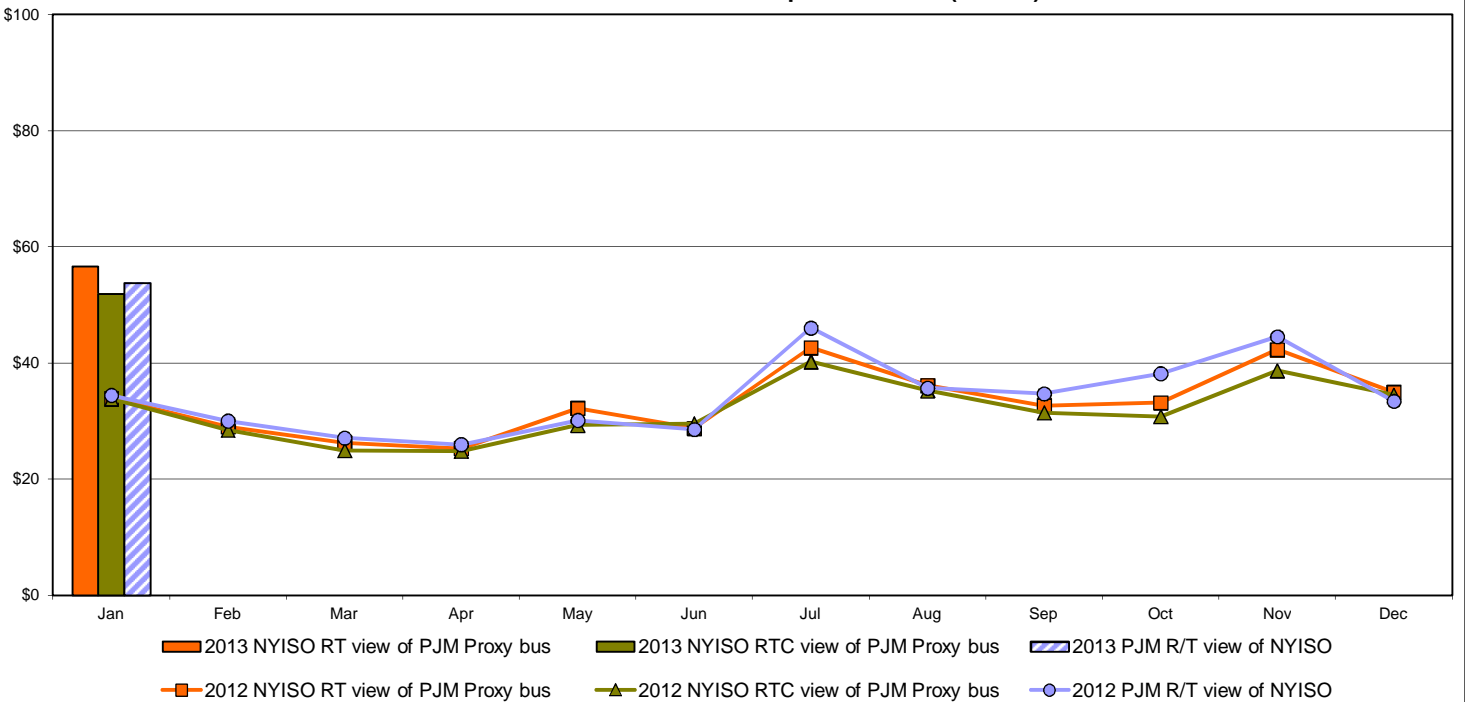


External Comparison PJM

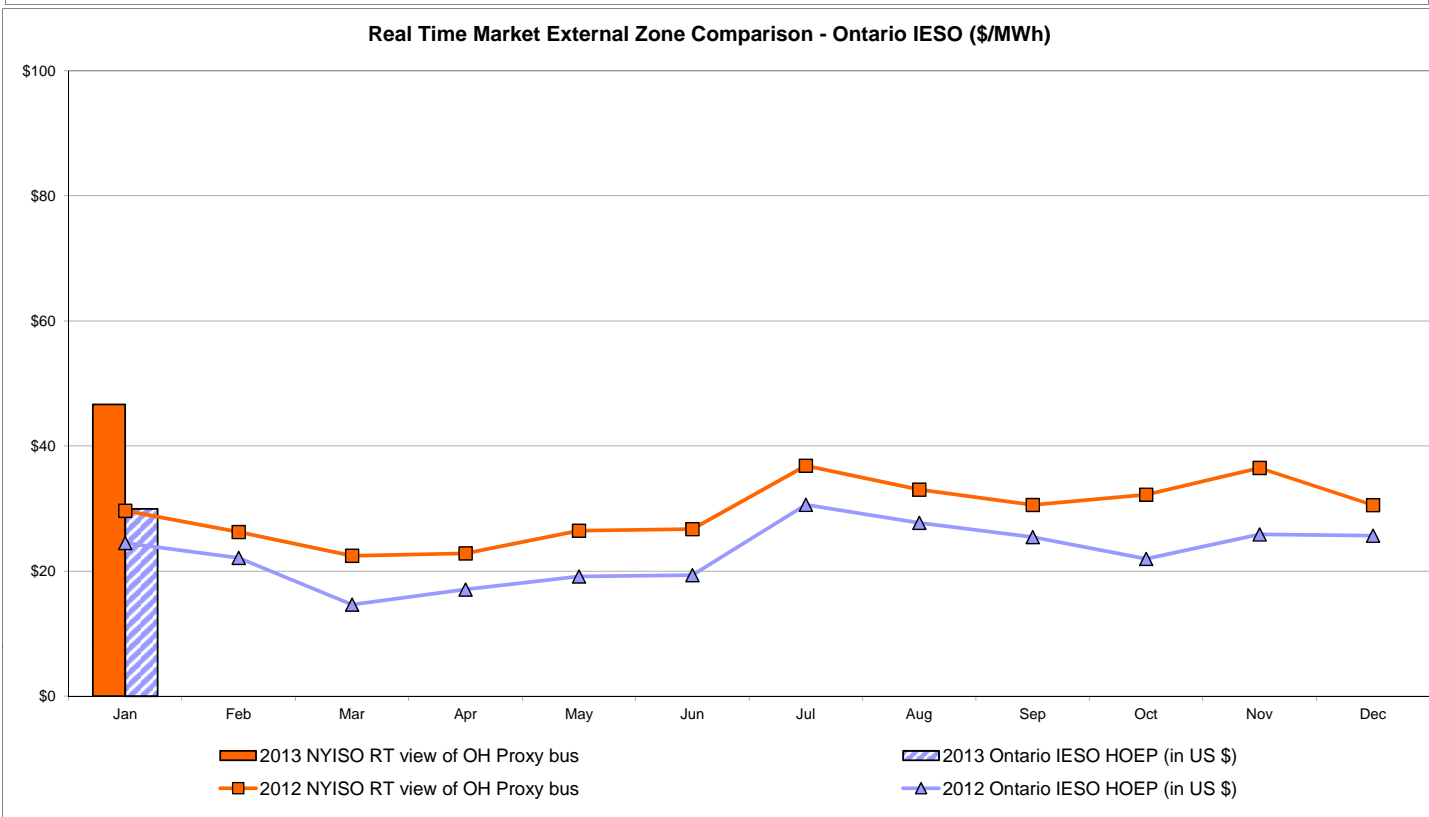
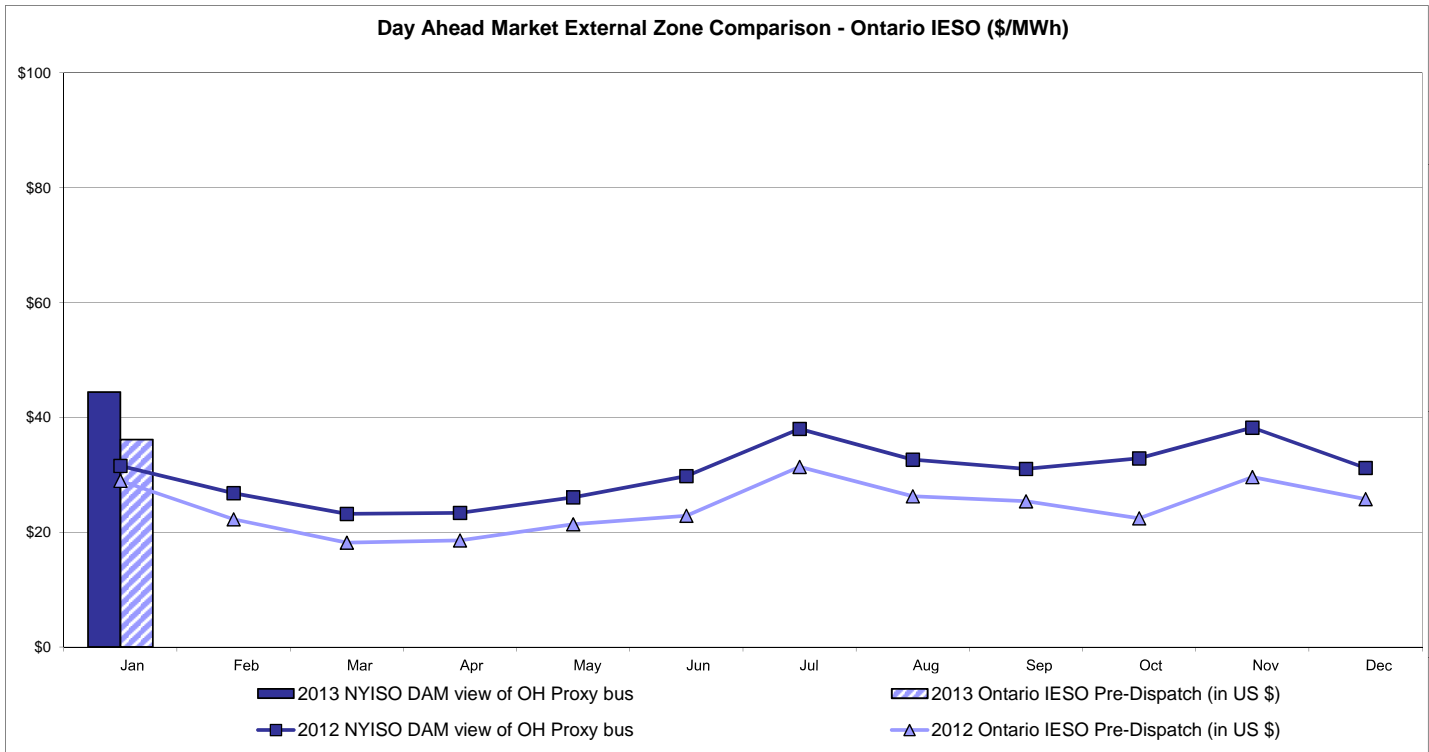
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



Real Time Market External Zone Comparison - PJM (\$/MWh)

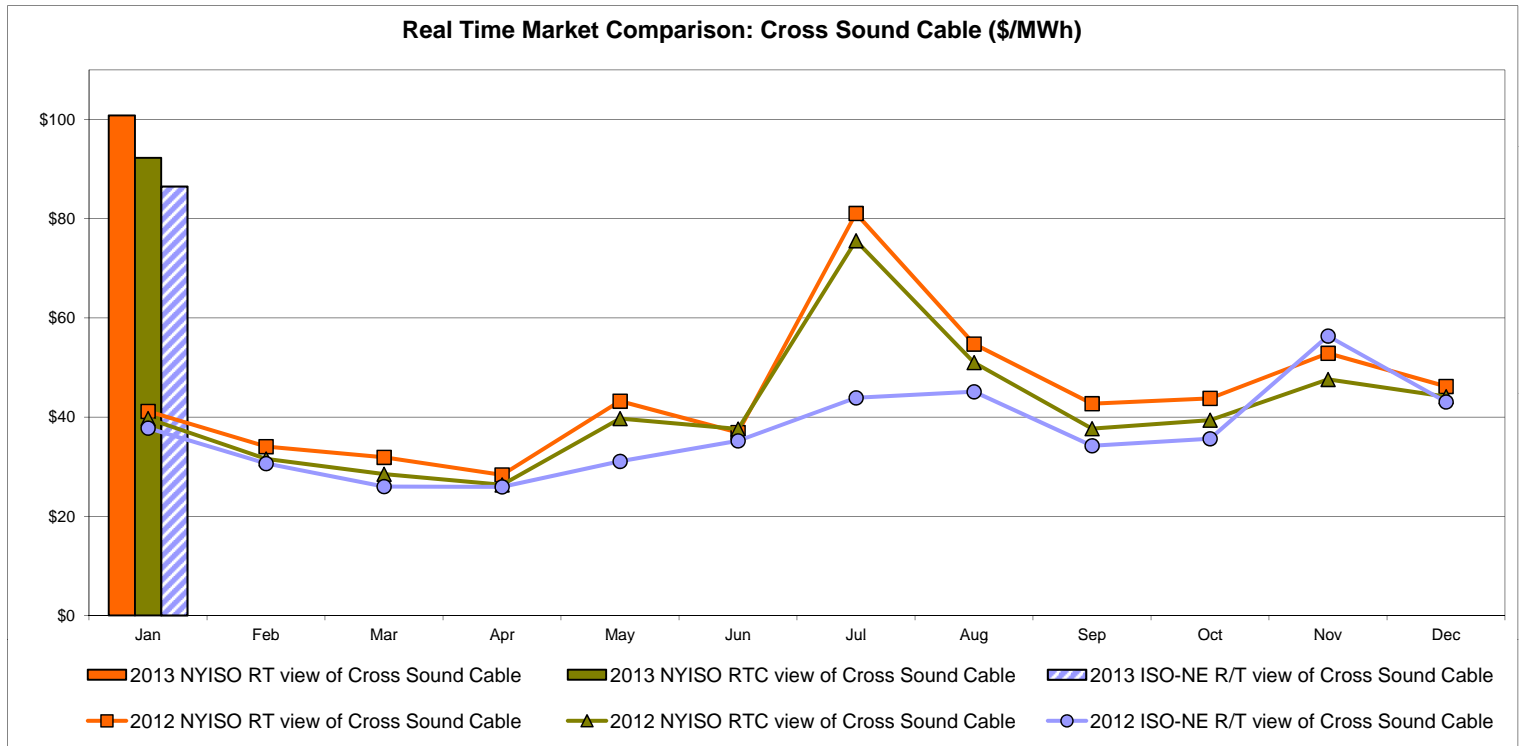
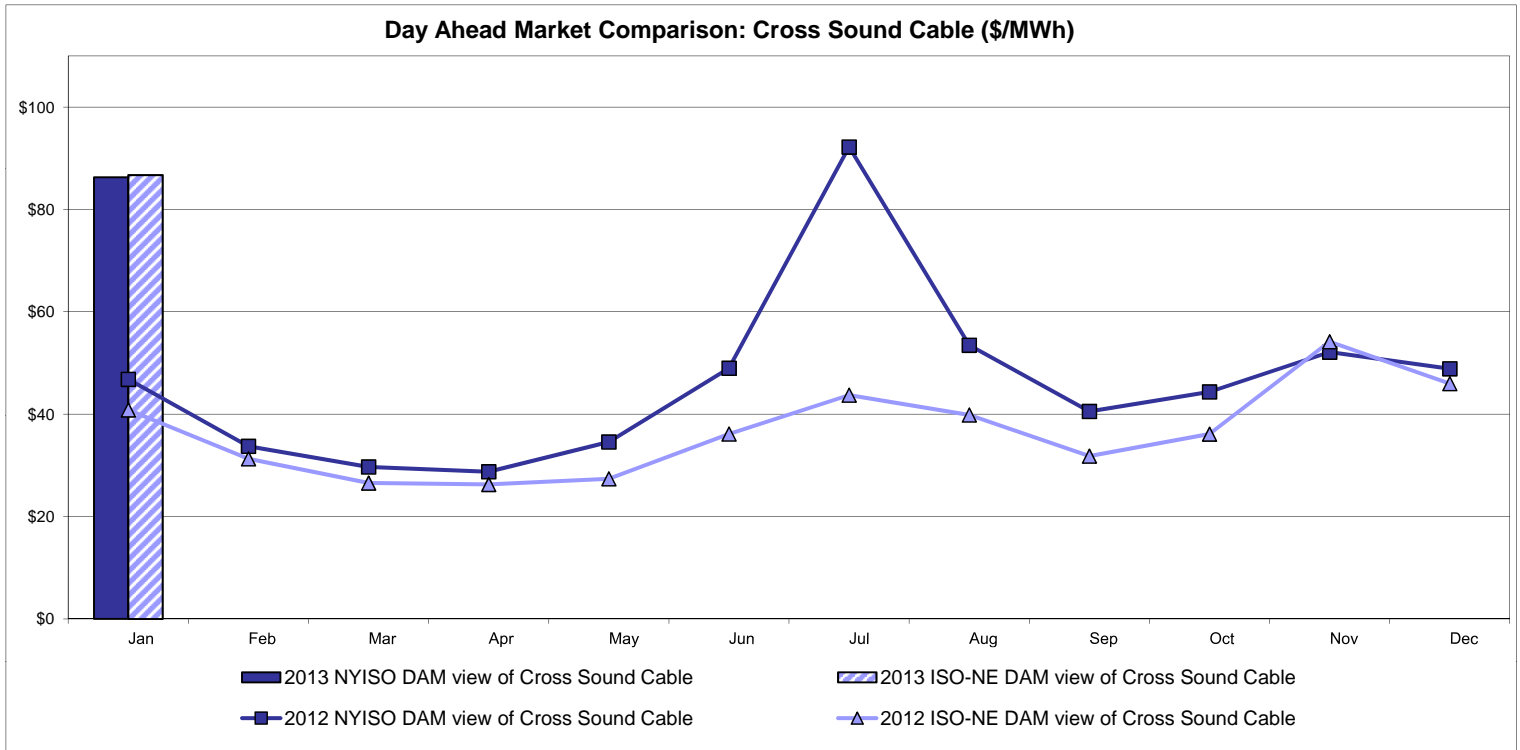


External Comparison Ontario IESO



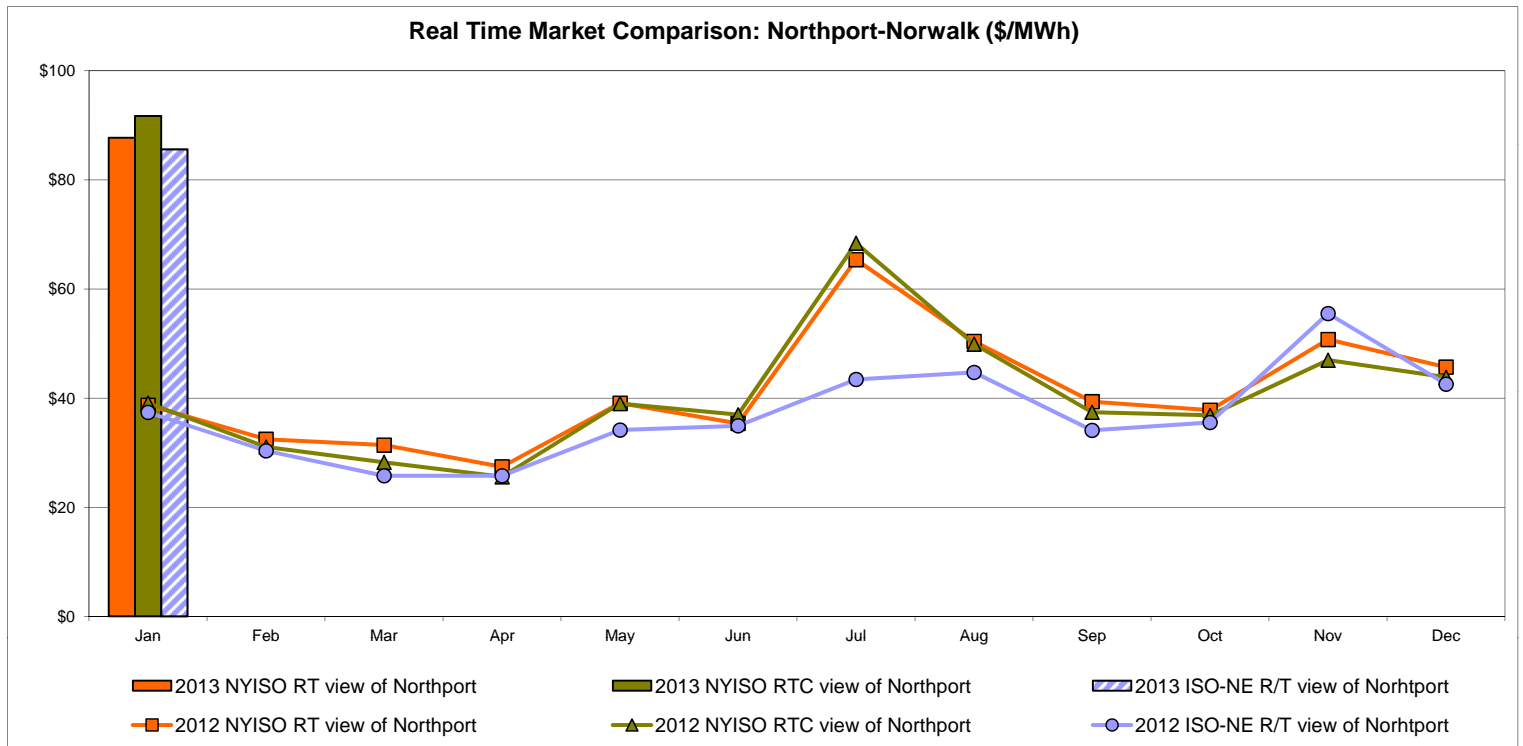
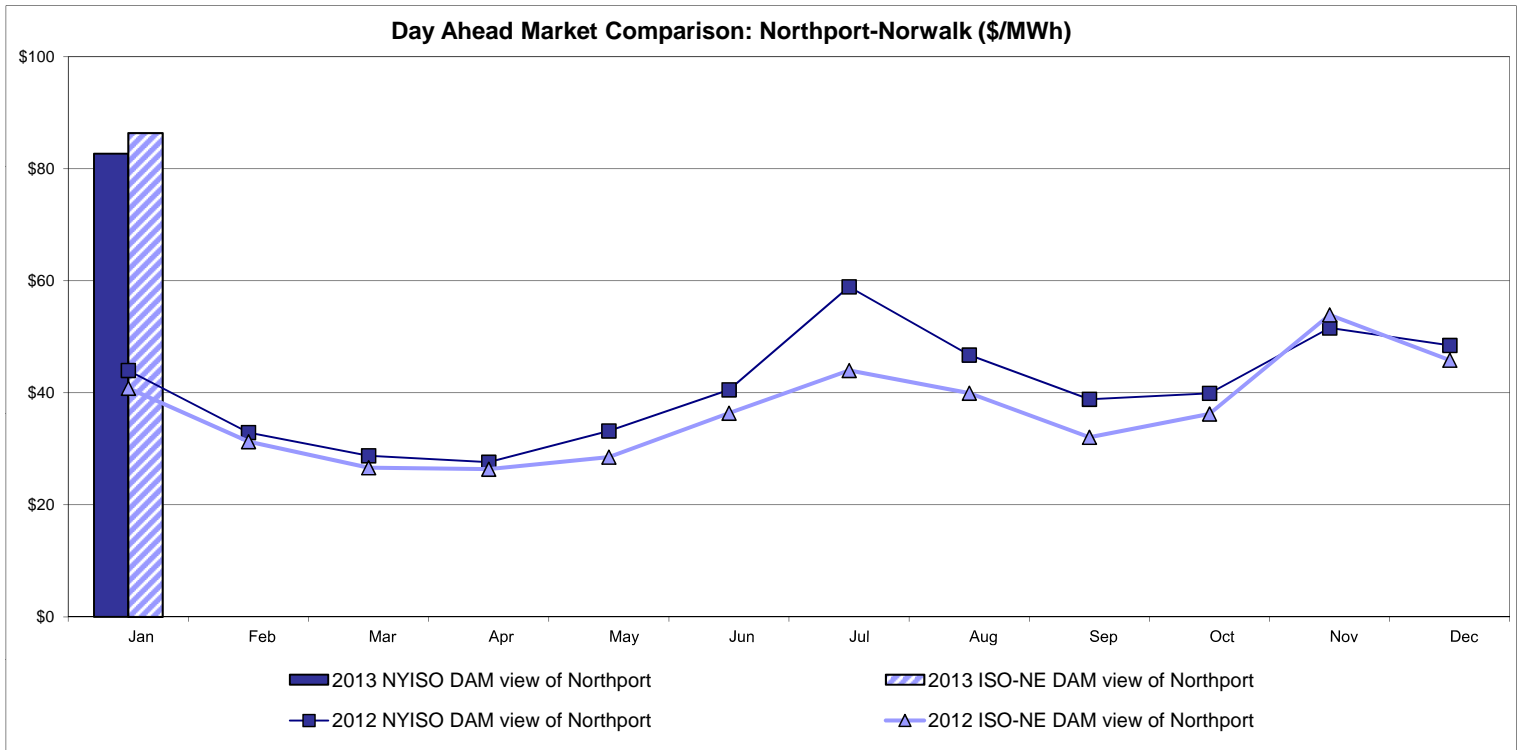
Notes: Exchange factor used for January 2013 was 1.008 to US \$
 HOEP: Hourly Ontario Energy Price
 Pre-Dispatch: Projected Energy Price

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.

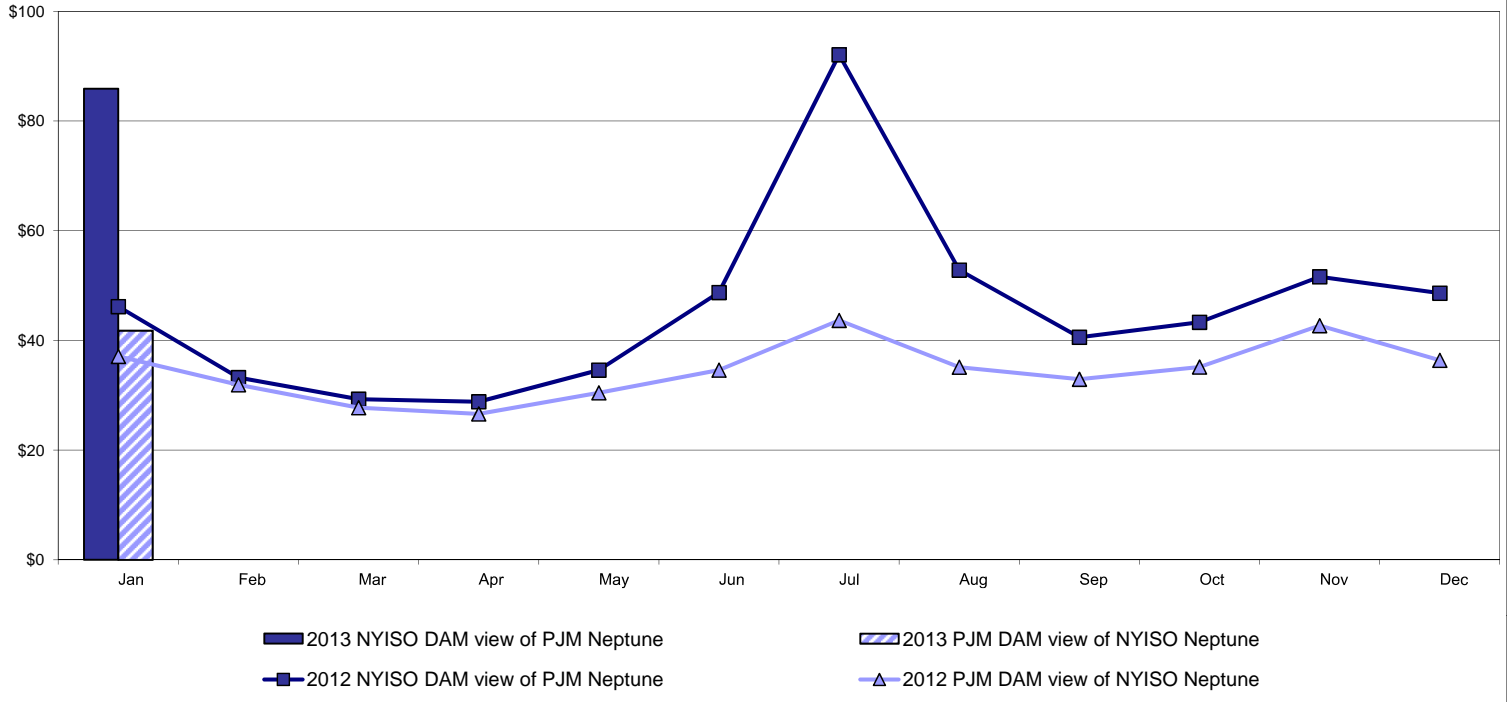
External Controllable Line: Northport - Norwalk (New England)



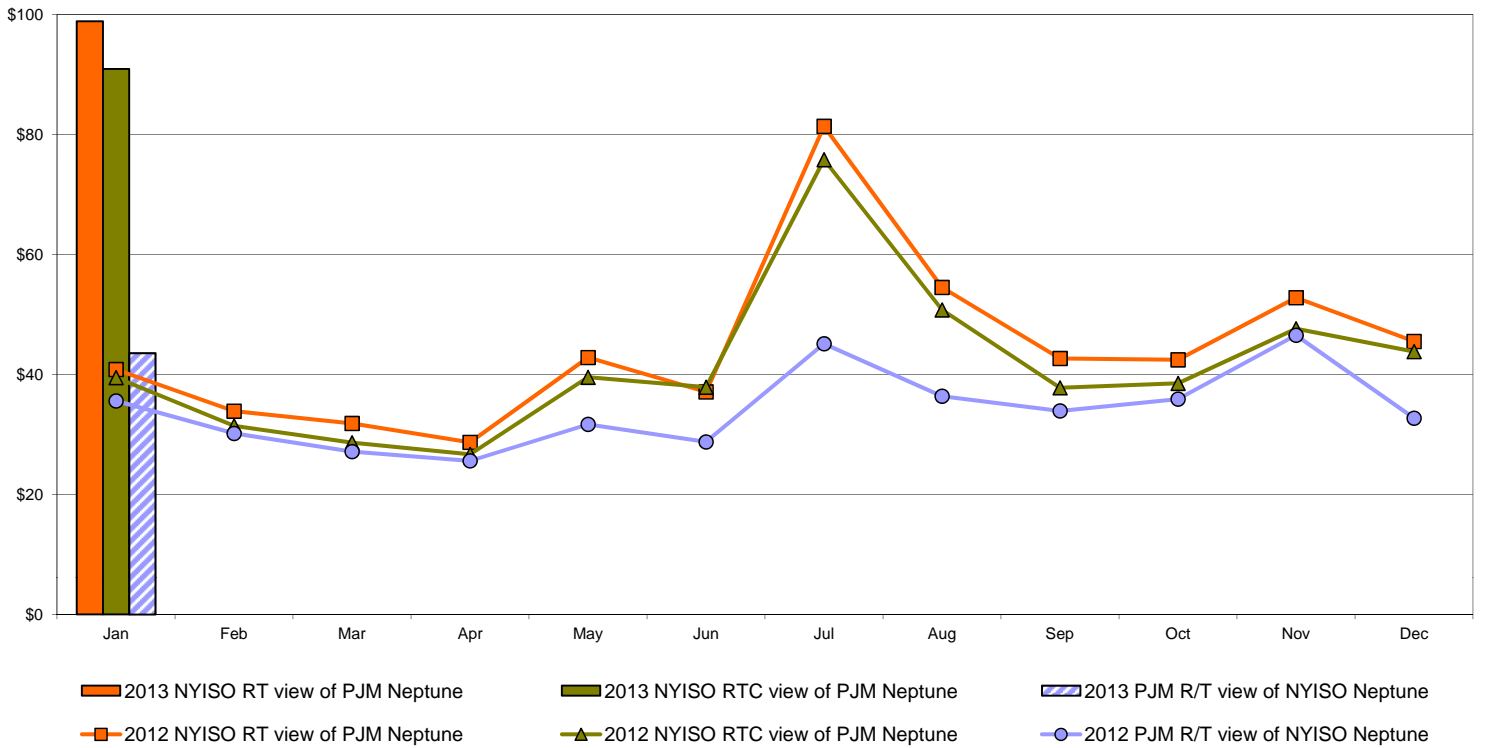
Note:
 ISO-NE Forecast is an advisory posting @ 18:00 day before.
 The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.
 The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

Day Ahead Market Comparison: Neptune (\$/MWh)

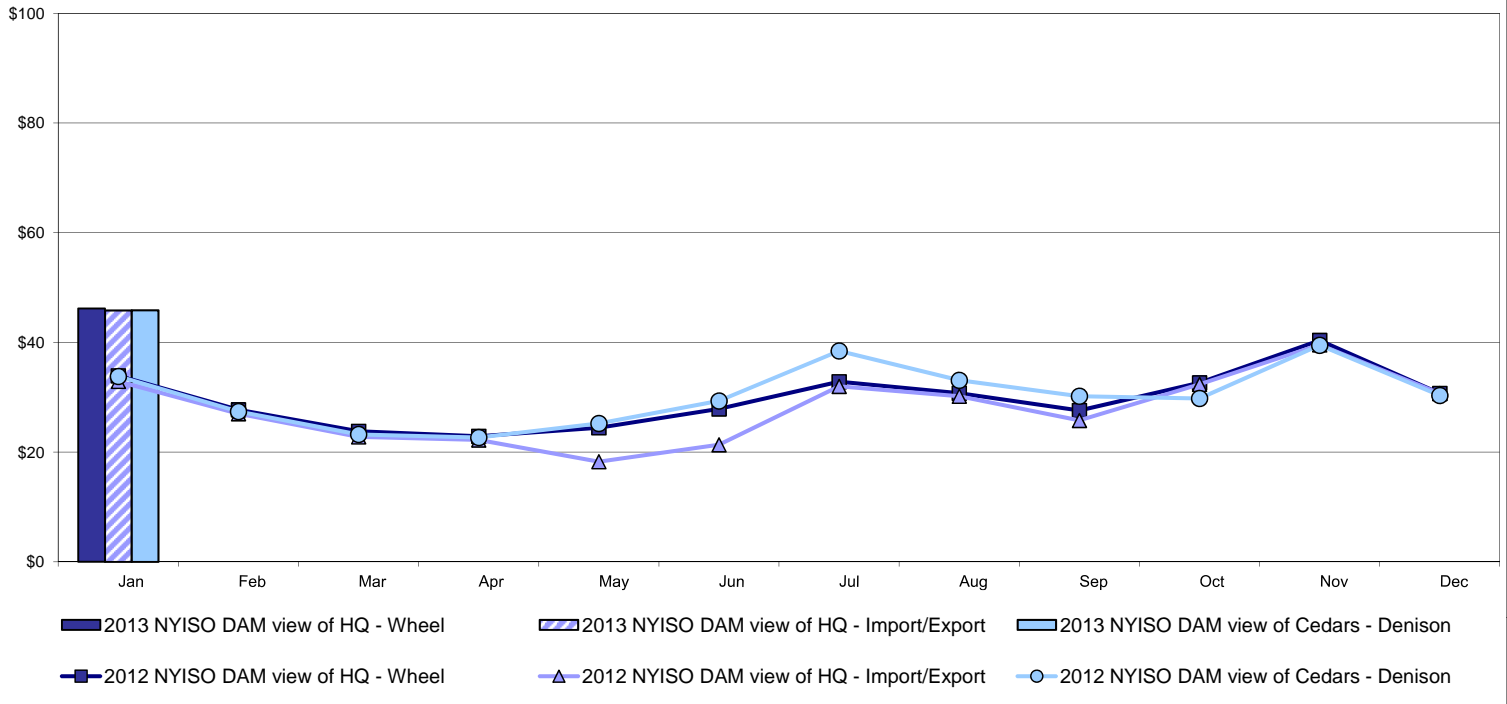


Real Time Market Comparison: Neptune (\$/MWh)

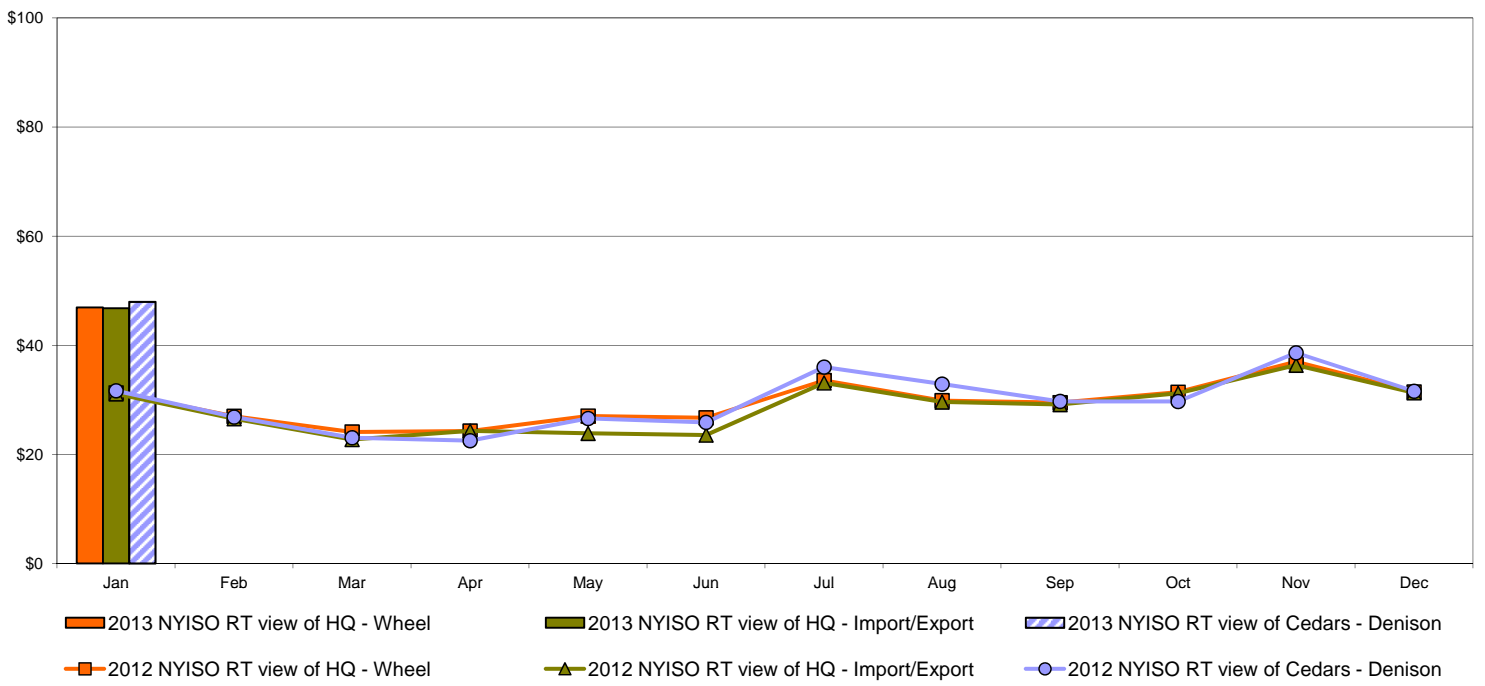


External Comparison Hydro-Quebec

Day Ahead Market External Zone Comparison - HQ (\$/MWh)

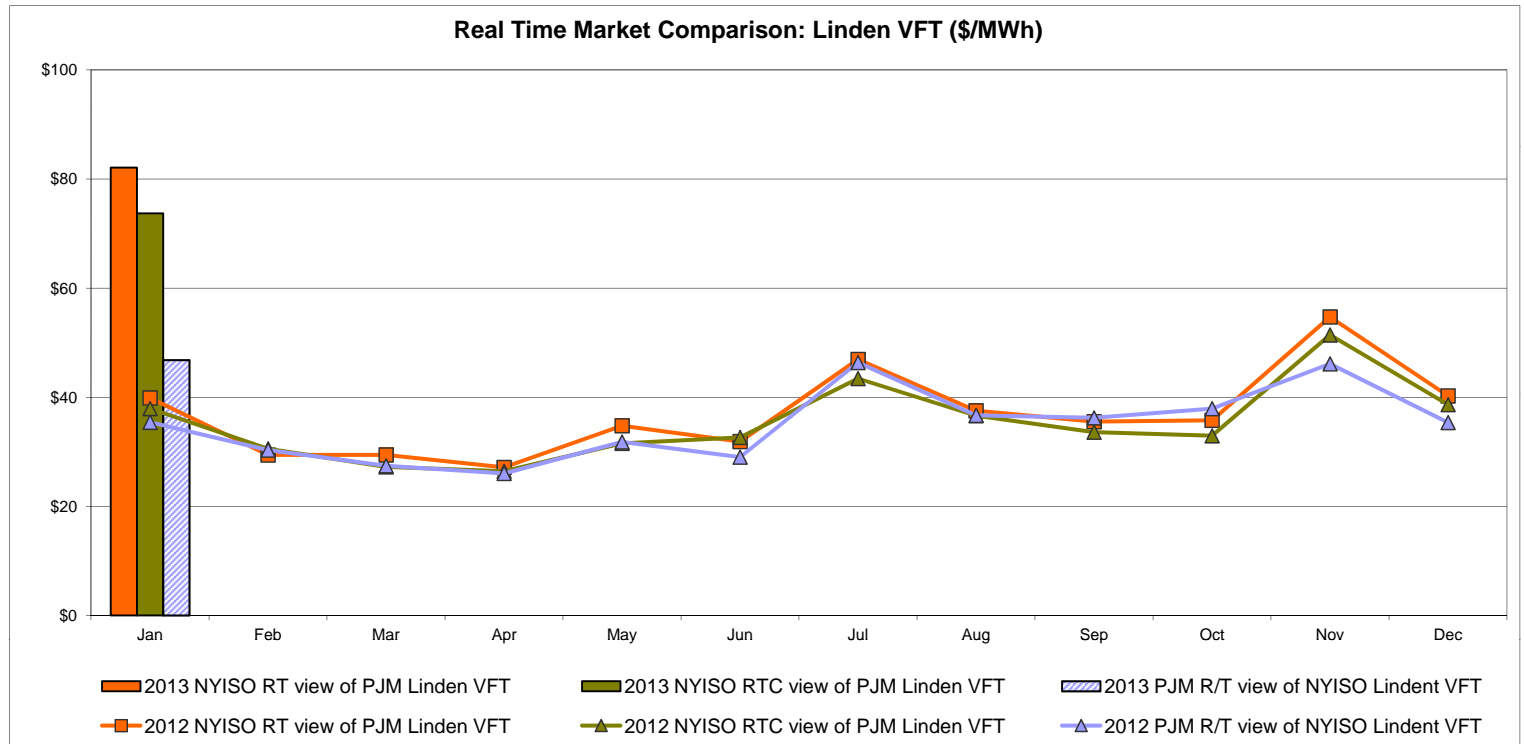
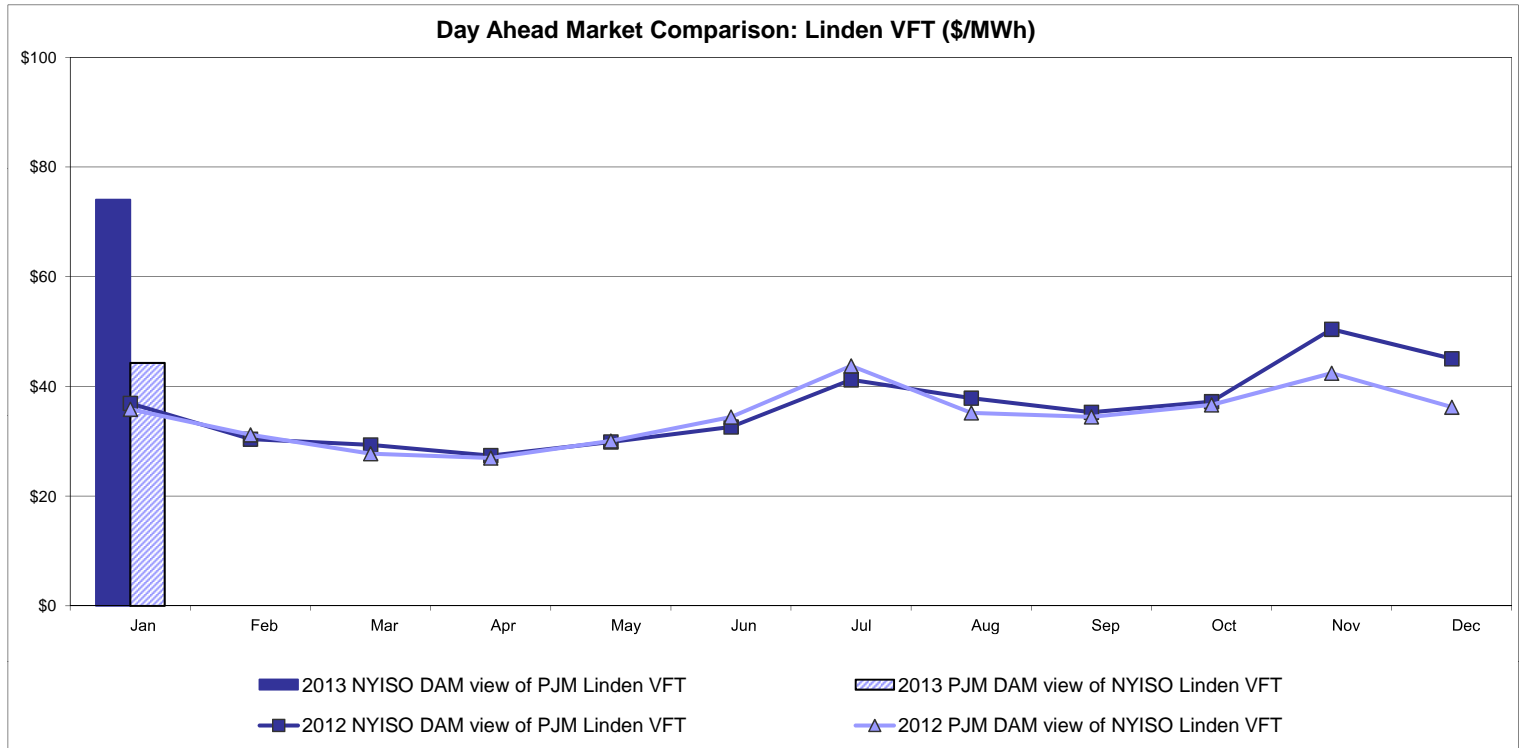


Real Time Market External Zone Comparison - HQ (\$/MWh)



Note:
Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)

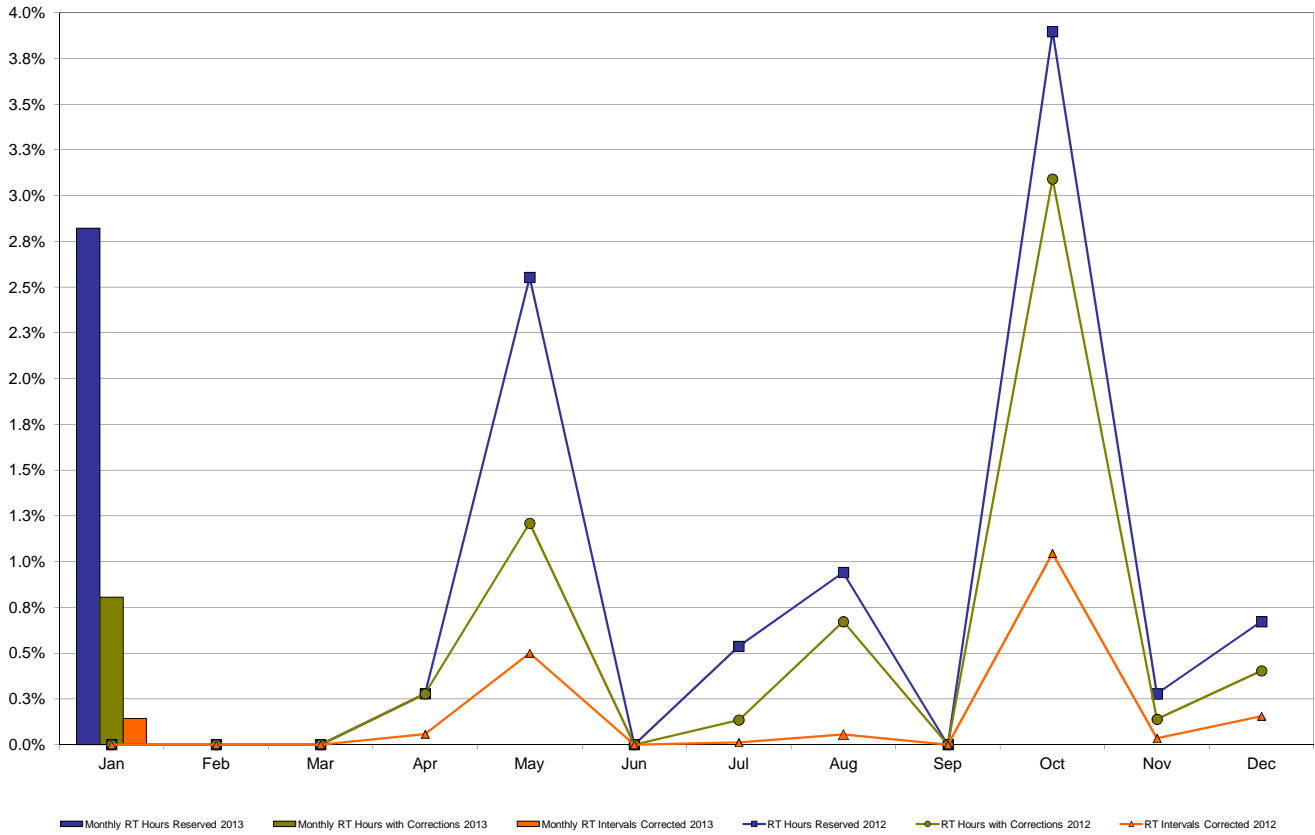


NYISO Real Time Price Correction Statistics

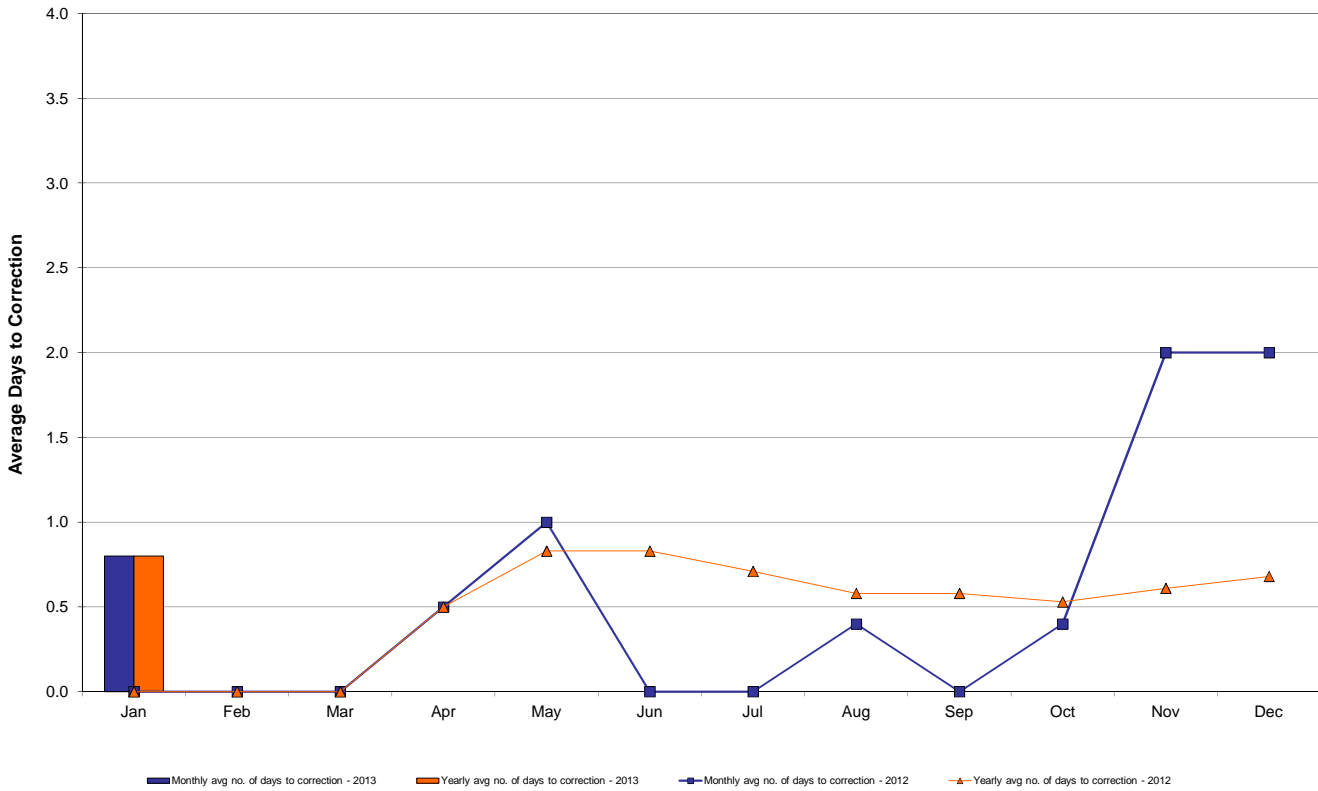
2013		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	6											
Number of hours	in the month	744											
% of hours with corrections	in the month	0.81%											
% of hours with corrections	year-to-date	0.81%											
Interval Corrections													
Number of intervals corrected	in the month	13											
Number of intervals	in the month	9,104											
% of intervals corrected	in the month	0.14%											
% of intervals corrected	year-to-date	0.14%											
Hours Reserved													
Number of hours reserved	in the month	21											
Number of hours	in the month	744											
% of hours reserved	in the month	2.82%											
% of hours reserved	year-to-date	2.82%											
Days to Correction *													
Avg. number of days to correction	in the month	0.80											
Avg. number of days to correction	year-to-date	0.80											
Days Without Corrections													
Days without corrections	in the month	26											
Days without corrections	year-to-date	26											
2012		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Hour Corrections													
Number of hours with corrections	in the month	0	0	0	2	9	0	1	5	0	23	1	3
Number of hours	in the month	744	696	743	720	744	720	744	744	720	744	721	744
% of hours with corrections	in the month	0.00%	0.00%	0.00%	0.28%	1.21%	0.00%	0.13%	0.67%	0.00%	3.09%	0.14%	0.40%
% of hours with corrections	year-to-date	0.00%	0.00%	0.00%	0.07%	0.30%	0.25%	0.23%	0.29%	0.26%	0.55%	0.51%	0.50%
Interval Corrections													
Number of intervals corrected	in the month	0	0	0	5	45	0	1	5	0	94	3	14
Number of intervals	in the month	9,025	8,399	8,977	8,716	9,013	8,786	9,100	9,044	8,724	8,987	8,856	9,036
% of intervals corrected	in the month	0.00%	0.00%	0.00%	0.06%	0.50%	0.00%	0.01%	0.06%	0.00%	1.05%	0.03%	0.15%
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%	0.01%	0.11%	0.09%	0.08%	0.08%	0.07%	0.17%	0.16%	0.16%
Hours Reserved													
Number of hours reserved	in the month	0	0	0	2	19	0	4	7	0	29	2	5
Number of hours	in the month	744	696	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	0.00%	0.00%	0.00%	0.28%	2.55%	0.00%	0.54%	0.94%	0.00%	3.90%	0.28%	0.67%
% of hours reserved	year-to-date	0.00%	0.00%	0.00%	0.07%	0.58%	0.48%	0.49%	0.55%	0.49%	0.83%	0.78%	0.77%
Days to Correction *													
Avg. number of days to correction	in the month	0.00	0.00	0.00	0.50	1.00	0.00	0.00	0.40	0.00	0.40	2.00	2.00
Avg. number of days to correction	year-to-date	0.00	0.00	0.00	0.50	0.83	0.83	0.71	0.58	0.58	0.53	0.61	0.68
Days Without Corrections													
Days without corrections	in the month	31	29	31	28	27	30	30	26	30	27	29	30
Days without corrections	year-to-date	31	60	91	119	146	176	206	232	262	289	318	348

* Calendar days from reservation date.

Percentage of Real-Time Corrections

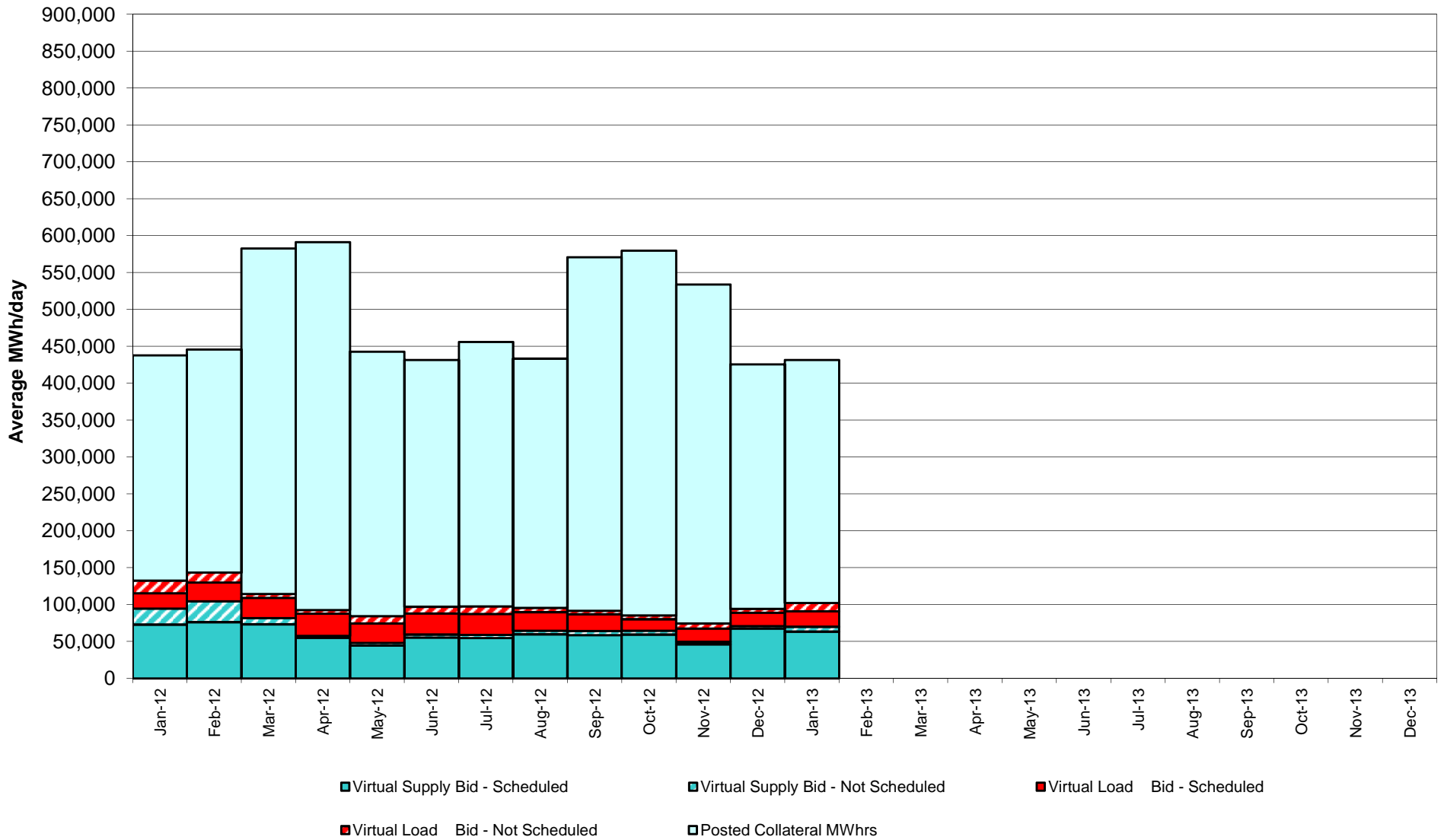


Annual average time period for making Price Corrections (from reservation date) *

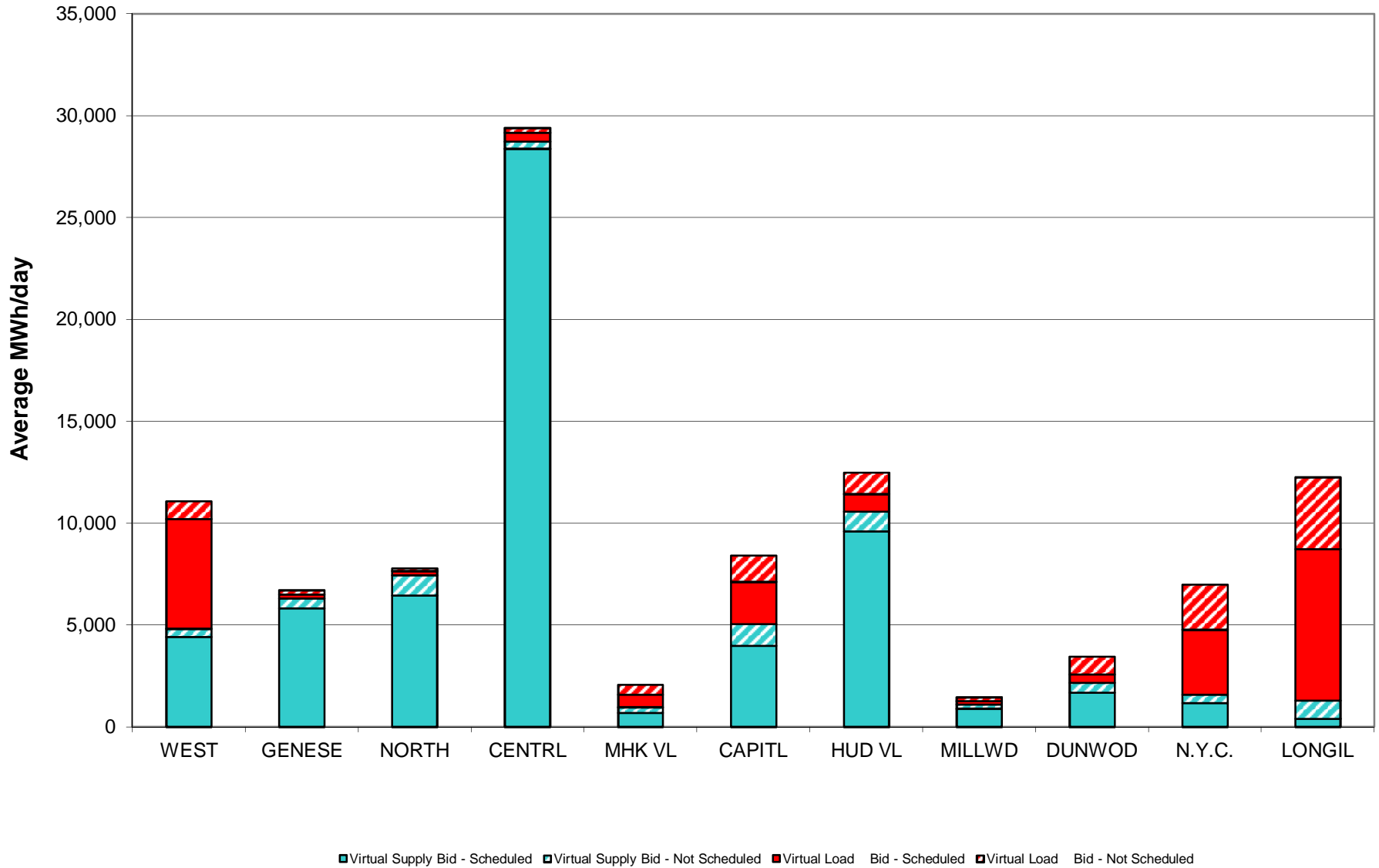


* Calendar days from reservation date.

NYISO Virtual Trading Average MWh per day



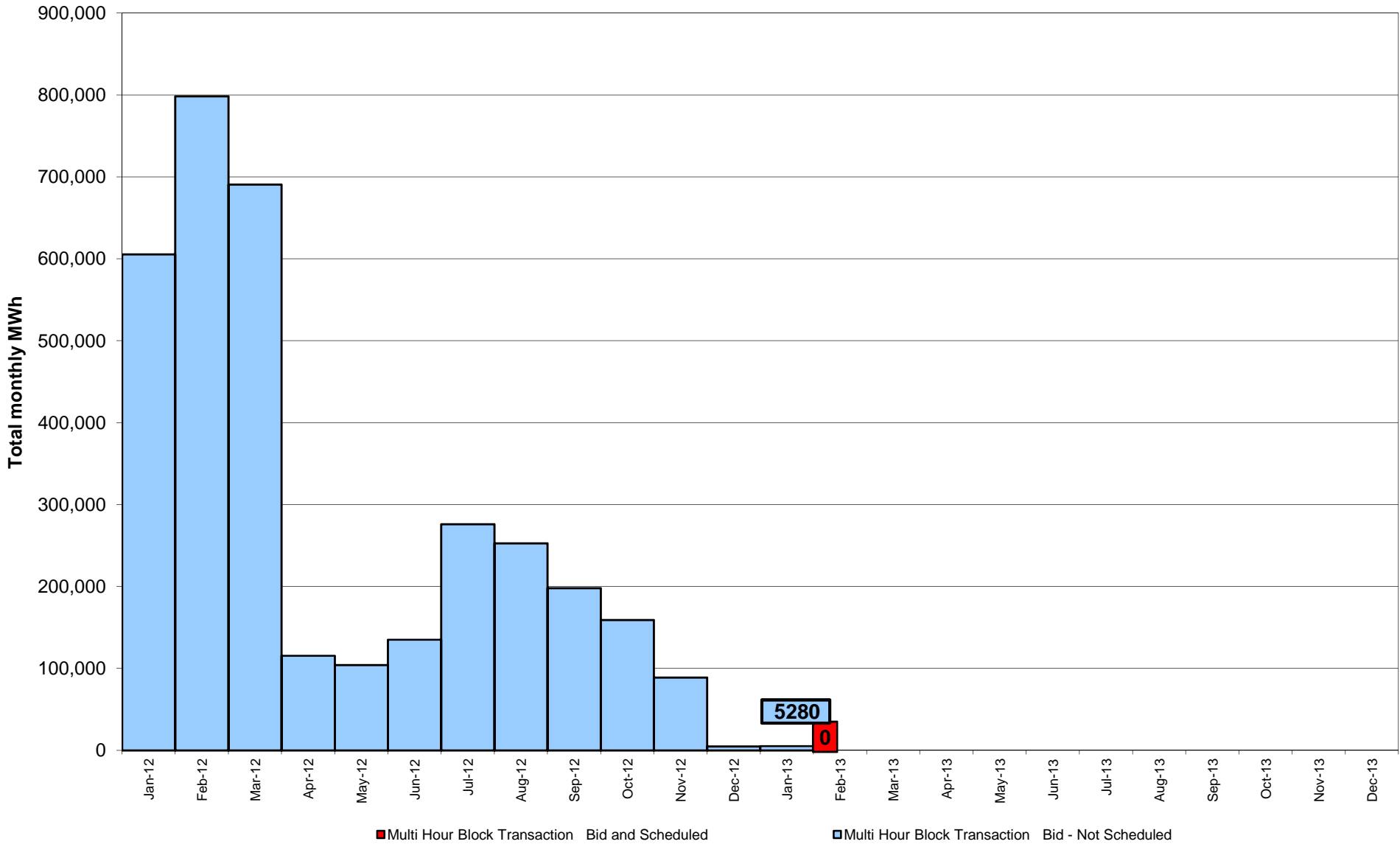
Virtual Load and Supply Zonal Statistics through January 31, 2013



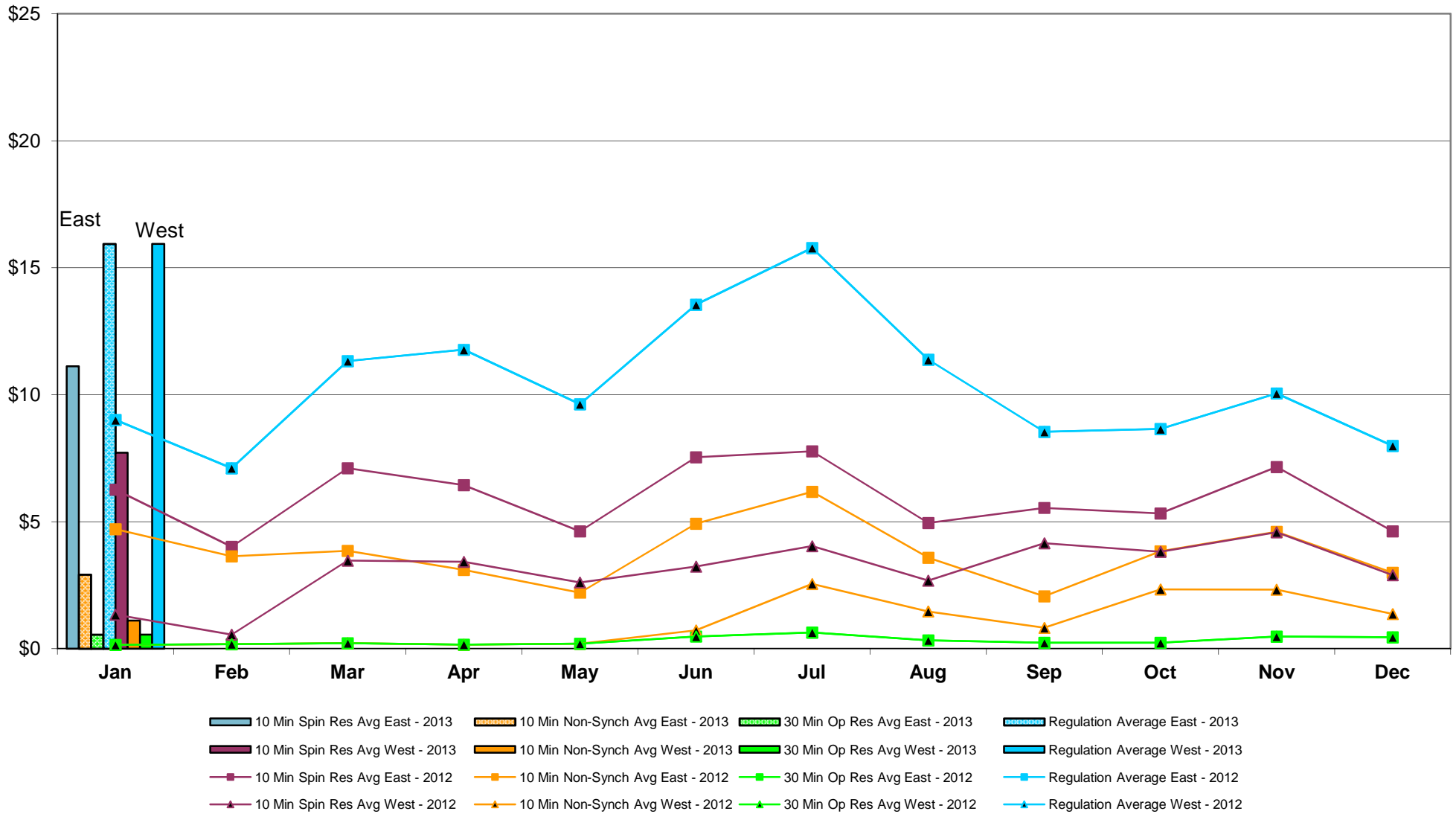
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2013

		Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid				Virtual Load Bid		Virtual Supply Bid			
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled		
WEST	Jan-13	5,393	880	4,402	409	MHK VL	Jan-13	617	477	695	273	DUNWOD	Jan-13	410	859	1682	491		
	Feb-13						Feb-13							Feb-13					
	Mar-13						Mar-13							Mar-13					
	Apr-13						Apr-13							Apr-13					
	May-13						May-13							May-13					
	Jun-13						Jun-13							Jun-13					
	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	Jan-13	184	207	5,822	492	CAPITL	Jan-13	2,053	1,313	3,977	1,088	N.Y.C.	Jan-13	3192	2206	1171	414		
	Feb-13						Feb-13							Feb-13					
	Mar-13						Mar-13							Mar-13					
	Apr-13						Apr-13							Apr-13					
	May-13						May-13							May-13					
	Jun-13						Jun-13							Jun-13					
	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	Jan-13	206	115	6,458	997	HUD VL	Jan-13	849	1,042	9,608	971	LONGIL	Jan-13	7420	3530	419	882		
	Feb-13						Feb-13							Feb-13					
	Mar-13						Mar-13							Mar-13					
	Apr-13						Apr-13							Apr-13					
	May-13						May-13							May-13					
	Jun-13						Jun-13							Jun-13					
	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	Jan-13	436	244	28,385	349	MILLWD	Jan-13	173	162	894	214	NYISO	Jan-13	20932	11035	63512	6579		
	Feb-13						Feb-13							Feb-13					
	Mar-13						Mar-13							Mar-13					
	Apr-13						Apr-13							Apr-13					
	May-13						May-13							May-13					
	Jun-13						Jun-13							Jun-13					
	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					

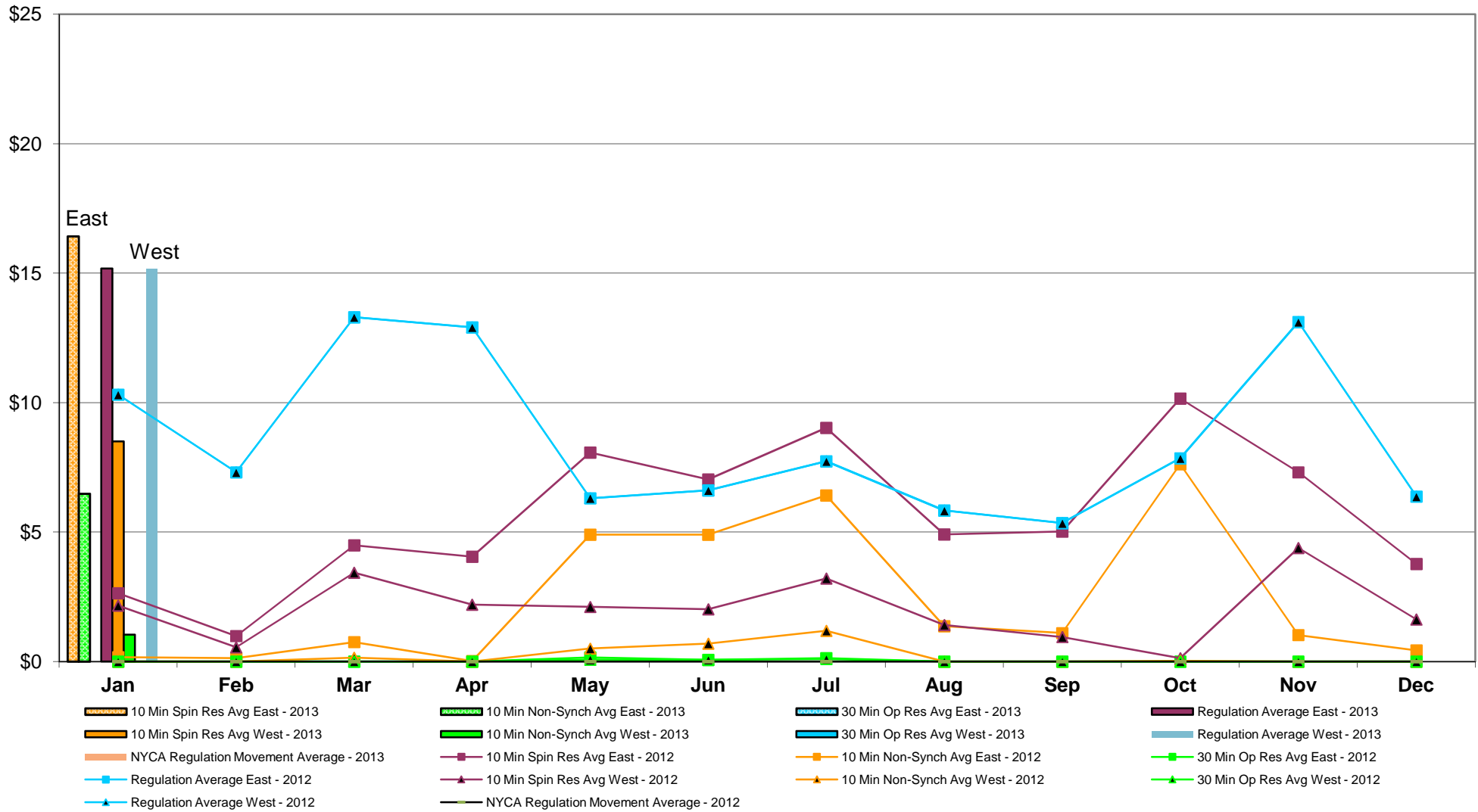
NYISO Multi Hour Block Transactions Monthly Total MWh



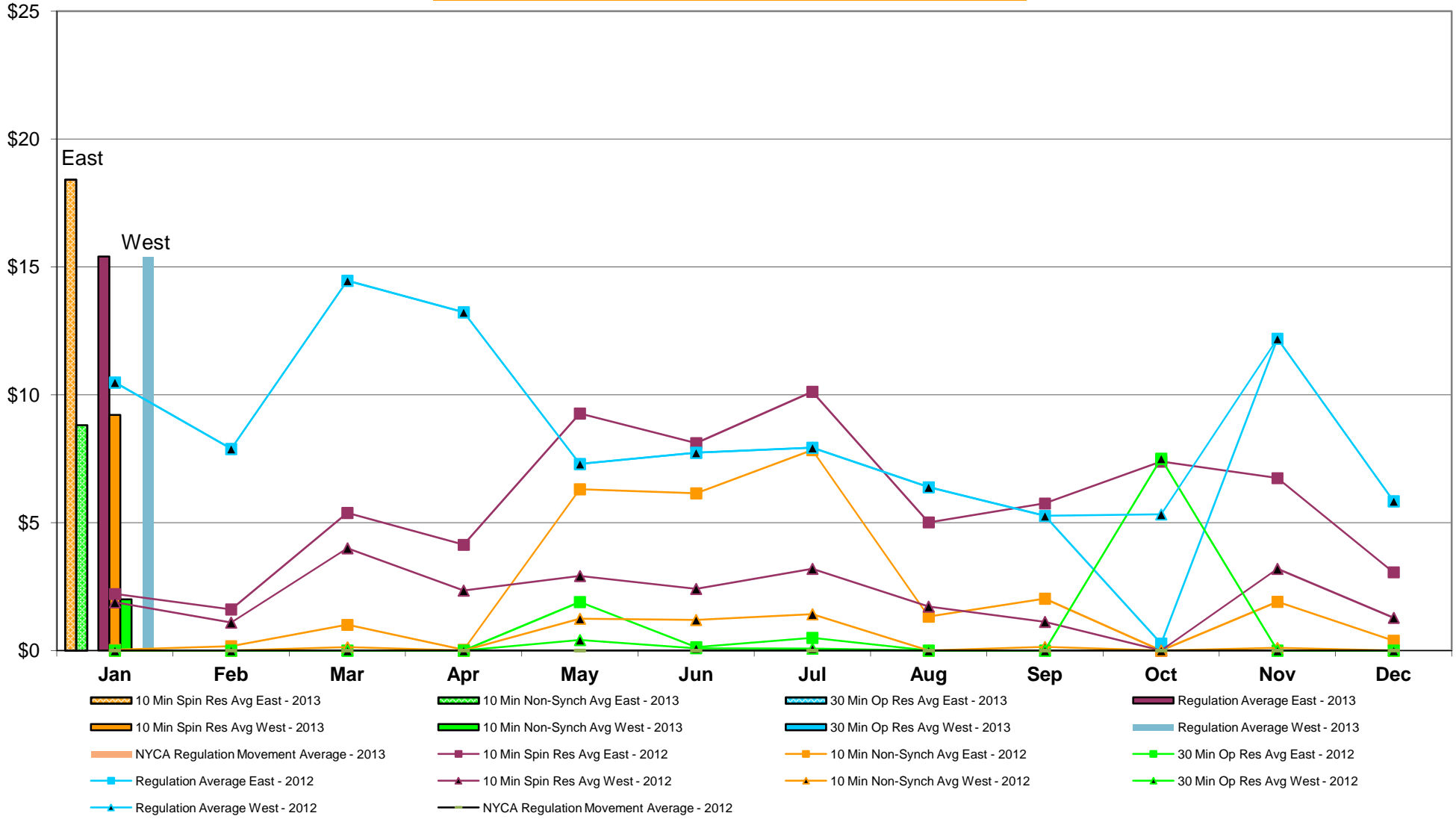
NYISO Monthly Average Ancillary Service Prices Day Ahead Market 2012 - 2013



NYISO Monthly Average Ancillary Service Prices RTC Market 2012 - 2013



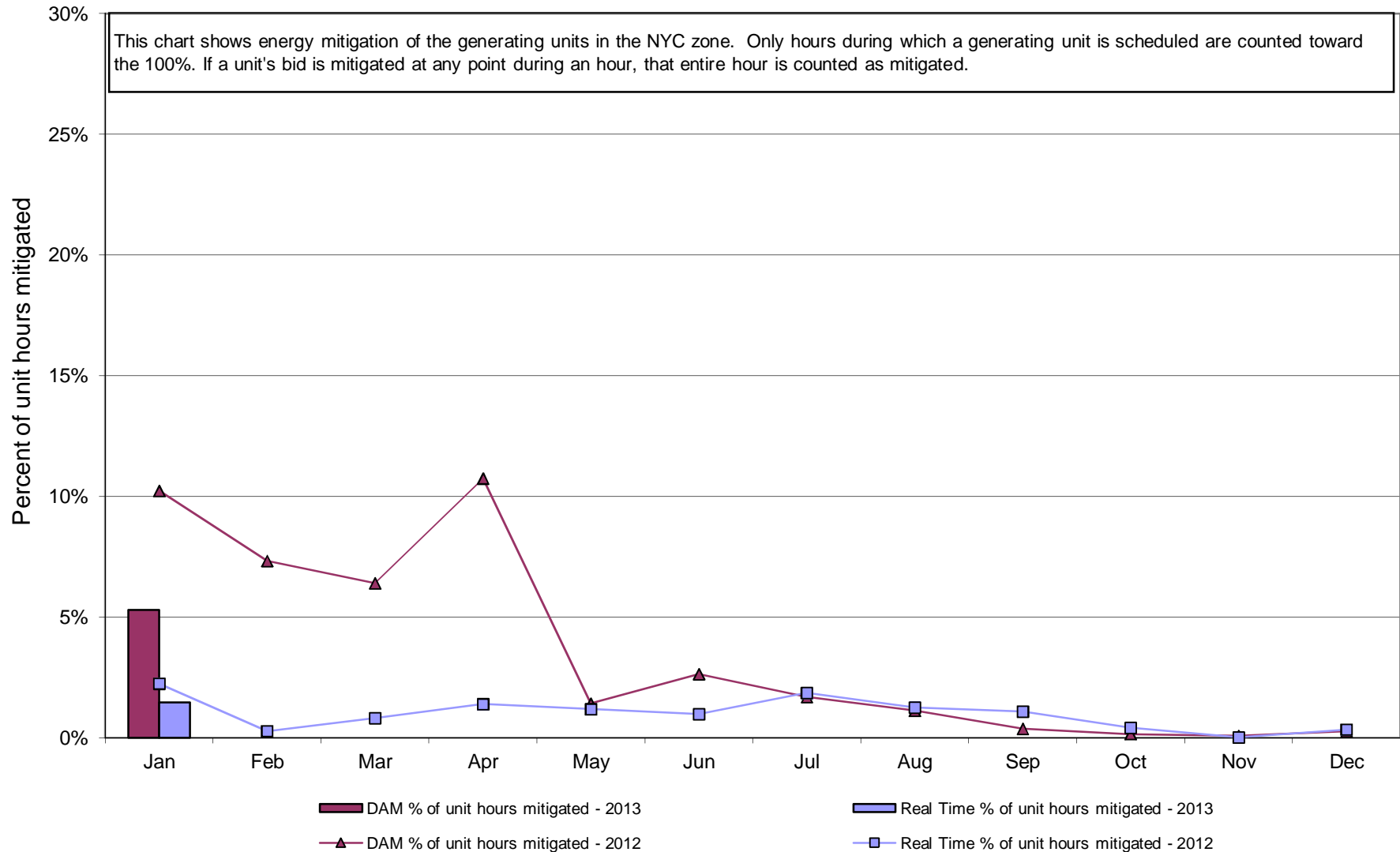
NYISO Monthly Average Ancillary Service Prices Real Time Market 2012 - 2013



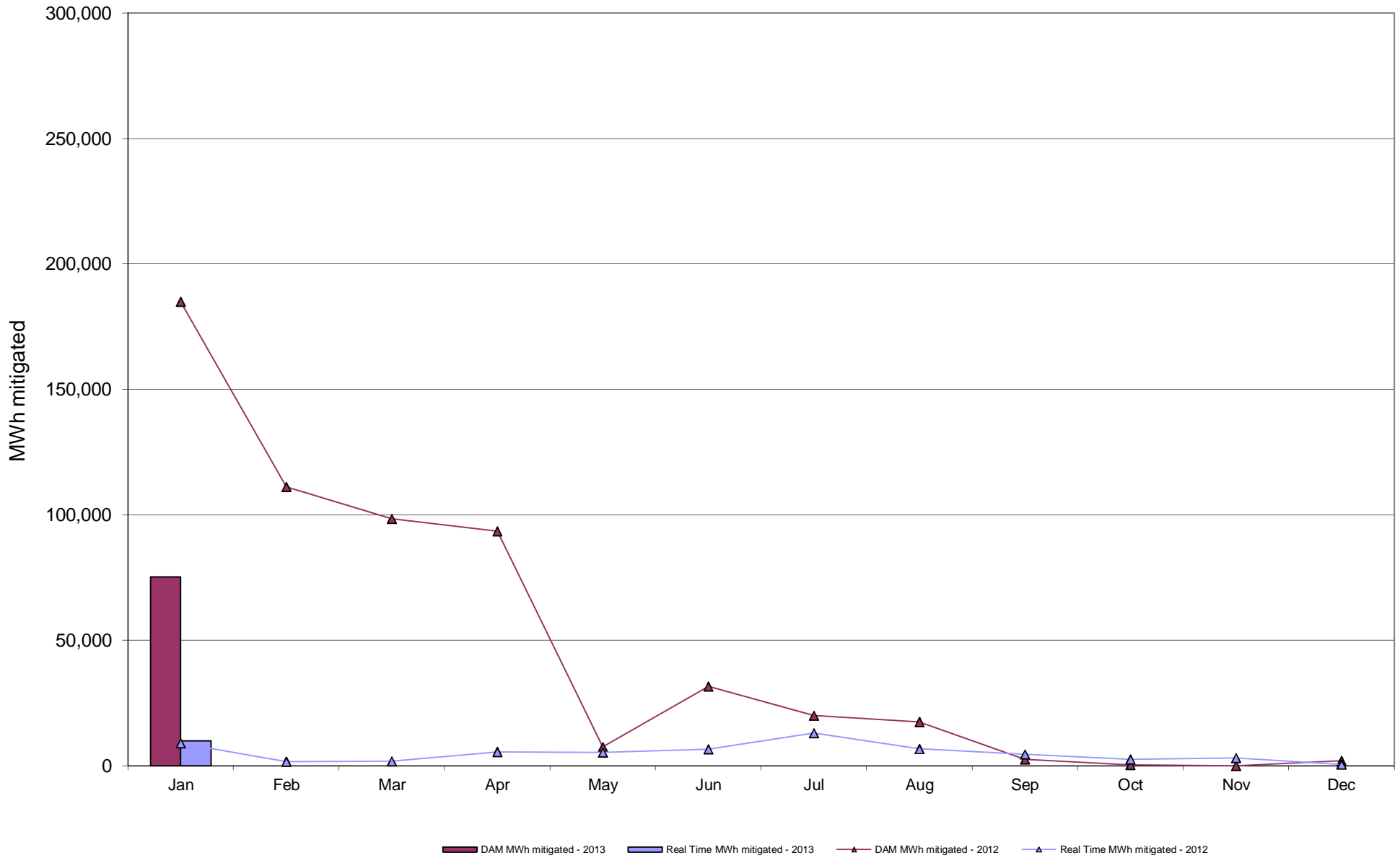
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

2013	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market												
10 Min Spin East	11.12											
10 Min Spin West	7.72											
10 Min Non Synch East	2.91											
10 Min Non Synch West	1.11											
30 Min East	0.56											
30 Min West	0.56											
Regulation East	15.94											
Regulation West	15.94											
RTC Market												
10 Min Spin East	16.42											
10 Min Spin West	8.50											
10 Min Non Synch East	6.48											
10 Min Non Synch West	1.04											
30 Min East	0.00											
30 Min West	0.00											
Regulation East	15.18											
Regulation West	15.18											
NYCA Regulation Movement	0.00											
Real Time Market												
10 Min Spin East	18.42											
10 Min Spin West	9.22											
10 Min Non Synch East	8.81											
10 Min Non Synch West	2.00											
30 Min East	0.00											
30 Min West	0.00											
Regulation East	15.40											
Regulation West	15.40											
NYCA Regulation Movement	0.00											
2012	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market												
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
10 Min Spin West	1.34	0.56	3.46	3.43	2.61	3.23	4.04	2.68	4.16	3.82	4.58	2.90
10 Min Non Synch East	4.71	3.64	3.85	3.11	2.21	4.92	6.18	3.58	2.07	3.84	4.60	2.99
10 Min Non Synch West	0.15	0.18	0.22	0.16	0.20	0.72	2.55	1.47	0.82	2.34	2.32	1.37
30 Min East	0.15	0.18	0.22	0.16	0.20	0.48	0.64	0.33	0.23	0.23	0.48	0.45
30 Min West	0.15	0.18	0.22	0.16	0.20	0.48	0.64	0.33	0.23	0.23	0.48	0.45
Regulation East	9.01	7.11	11.33	11.77	9.63	13.55	15.78	11.38	8.54	8.65	10.05	7.99
Regulation West	9.01	7.11	11.33	11.77	9.63	13.55	15.78	11.38	8.54	8.65	10.05	7.99
RTC Market												
10 Min Spin East	2.64	0.99	4.49	4.05	8.07	7.03	9.02	4.91	5.02	10.16	7.31	3.77
10 Min Spin West	2.16	0.55	3.43	2.20	2.11	2.02	3.21	1.41	0.95	0.13	4.39	1.63
10 Min Non Synch East	0.17	0.13	0.75	0.02	4.90	4.90	6.42	1.36	1.10	7.62	1.02	0.43
10 Min Non Synch West	0.00	0.00	0.15	0.00	0.50	0.69	1.19	0.00	0.00	0.03	0.00	0.00
30 Min East	0.00	0.00	0.00	0.00	0.16	0.07	0.13	0.00	0.00	0.00	0.00	0.00
30 Min West	0.00	0.00	0.00	0.00	0.07	0.07	0.10	0.00	0.00	0.00	0.00	0.00
Regulation East	10.31	7.31	13.30	12.91	6.31	6.61	7.74	5.83	5.35	7.85	13.11	6.38
Regulation West	10.31	7.31	13.30	12.91	6.31	6.61	7.74	5.83	5.35	7.85	13.11	6.38
NYCA Regulation Movement	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Real Time Market												
10 Min Spin East	2.21	1.61	5.38	4.14	9.27	8.11	10.12	5.01	5.75	9.93	6.74	3.06
10 Min Spin West	1.89	1.09	4.00	2.34	2.92	2.41	3.20	1.72	1.13	0.28	3.19	1.28
10 Min Non Synch East	0.03	0.17	1.01	0.03	6.31	6.15	7.84	1.33	2.03	7.39	1.91	0.39
10 Min Non Synch West	0.00	0.00	0.13	0.00	1.24	1.20	1.42	0.00	0.14	0.00	0.10	0.00
30 Min East	0.00	0.00	0.00	0.00	1.90	0.13	0.49	0.00	0.00	0.00	0.00	0.00
30 Min West	0.00	0.00	0.00	0.00	0.41	0.09	0.08	0.00	0.00	0.00	0.00	0.00
Regulation East	10.49	7.89	14.46	13.23	7.30	7.74	7.93	6.39	5.27	7.50	12.20	5.84

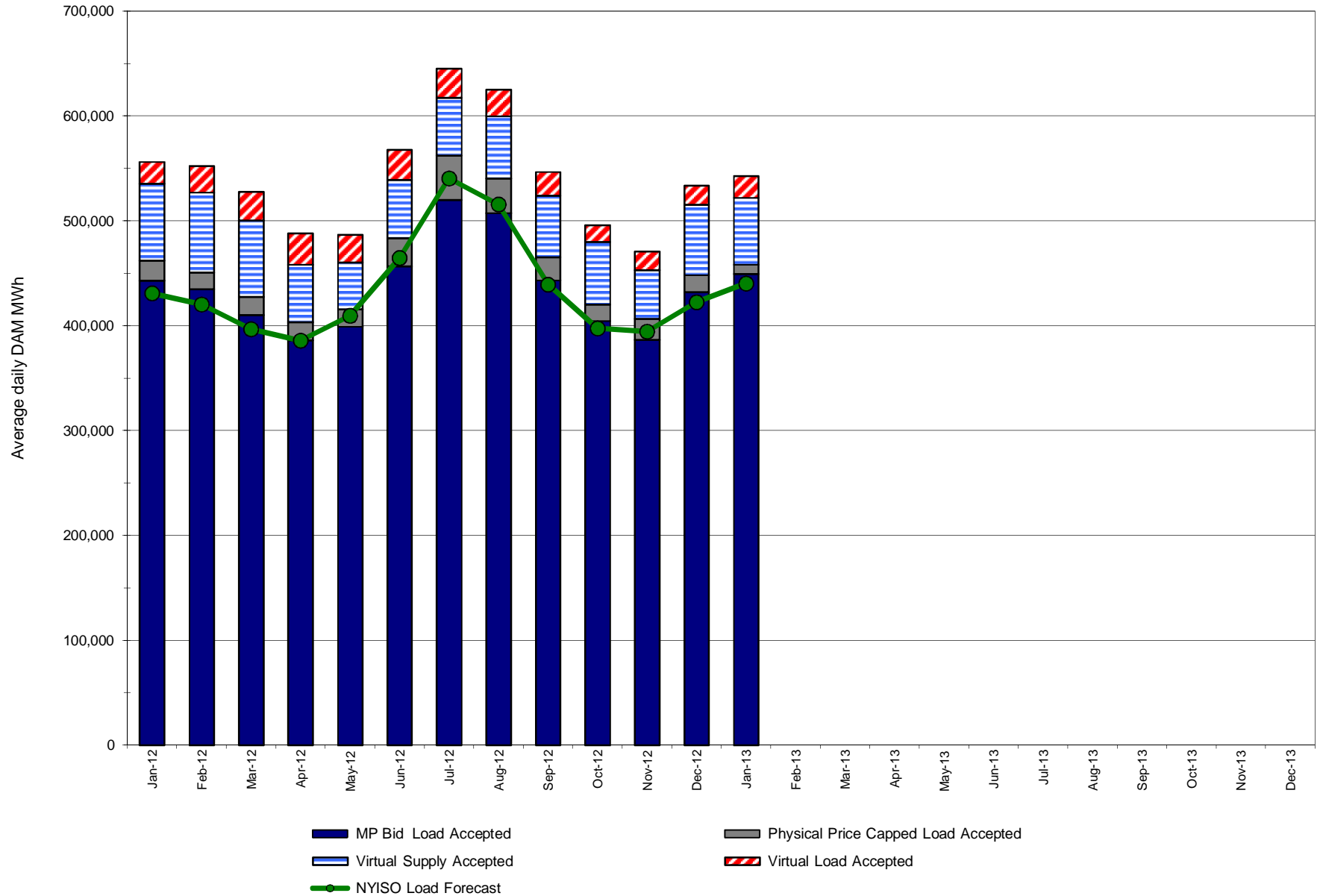
NYISO In City Energy Mitigation - AMP (NYC Zone) 2012 - 2013 Percentage of committed unit-hours mitigated



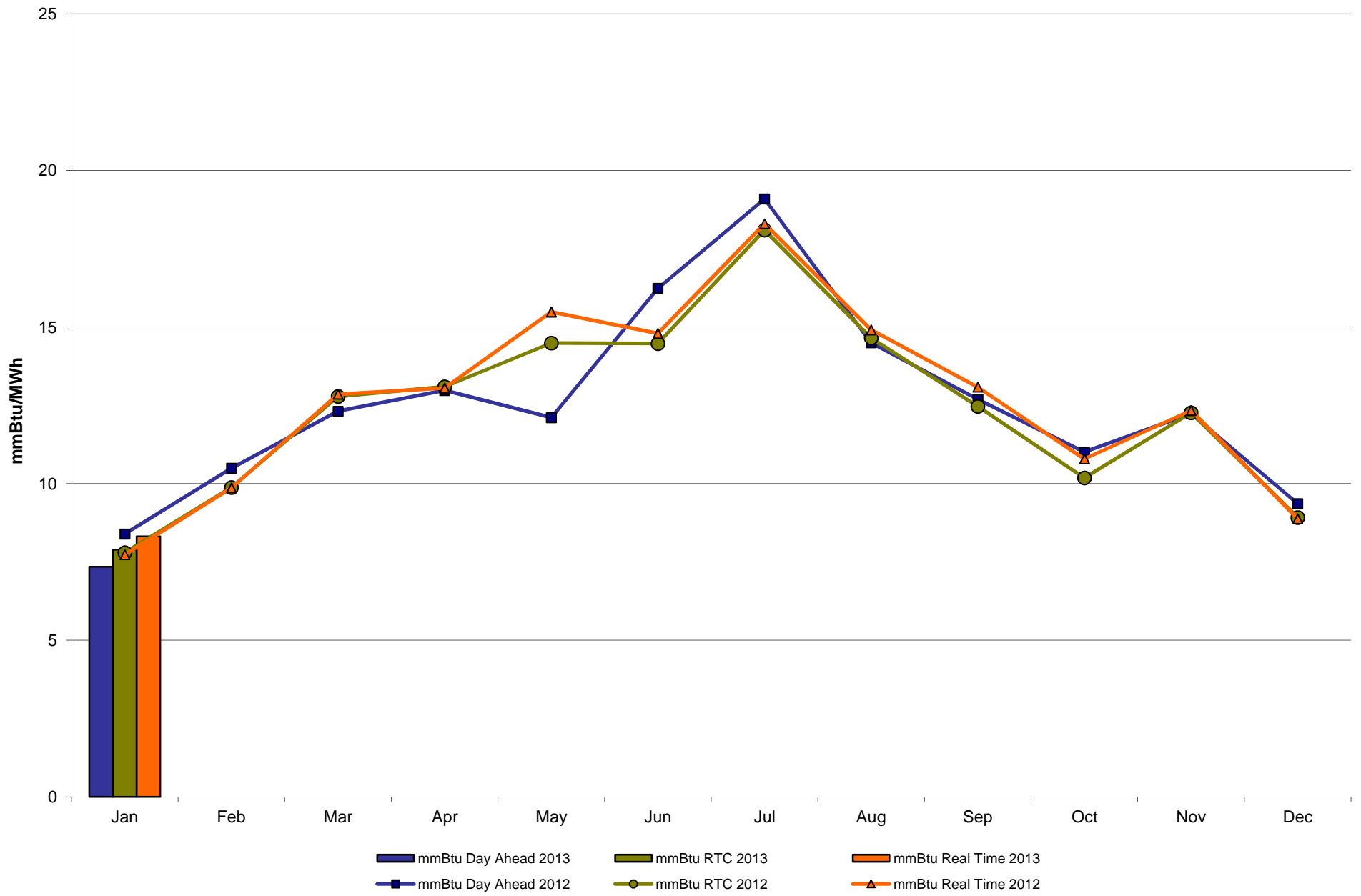
**NYISO In City Energy Mitigation (NYC Zone) 2012 - 2013
Monthly megawatt hours mitigated**



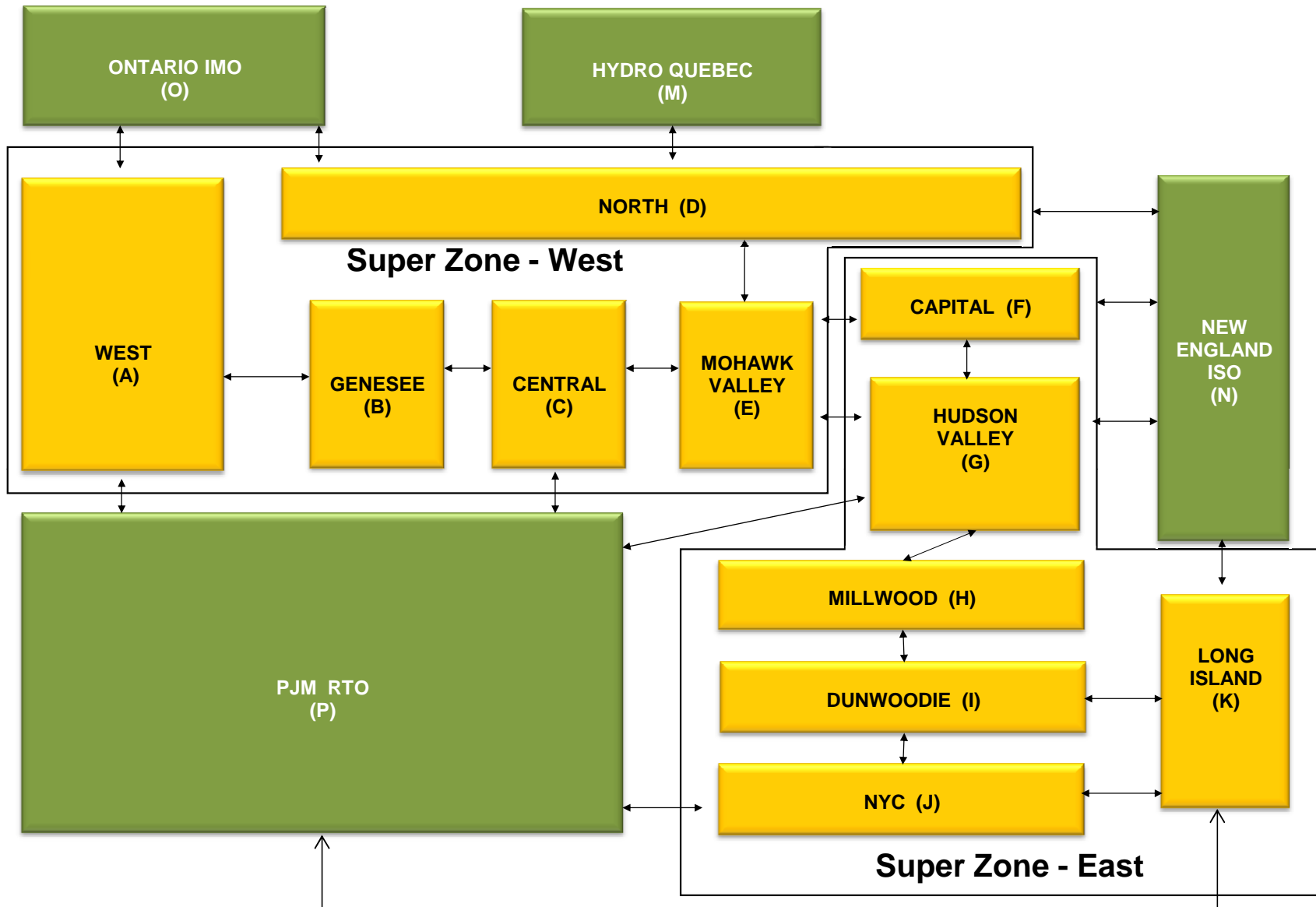
NYISO Average Daily DAM Load Bid Summary



Monthly Implied Heat Rate 2012-2013



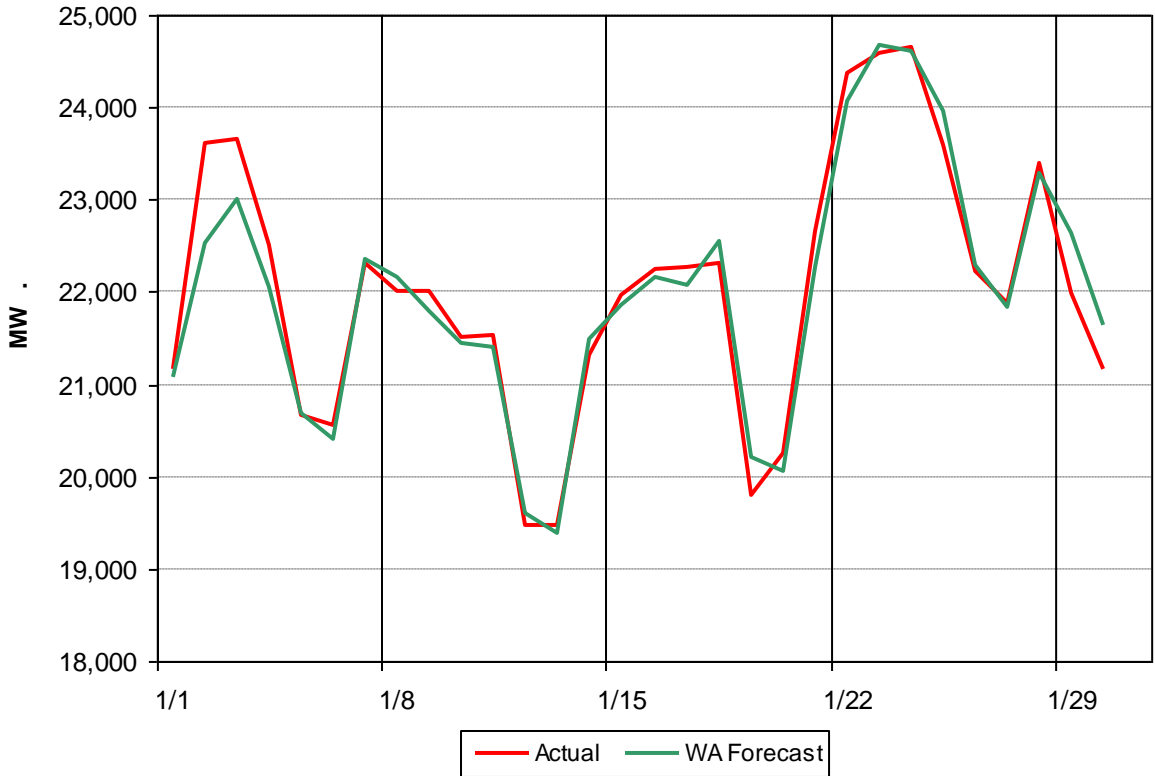
NYISO LBMP ZONES



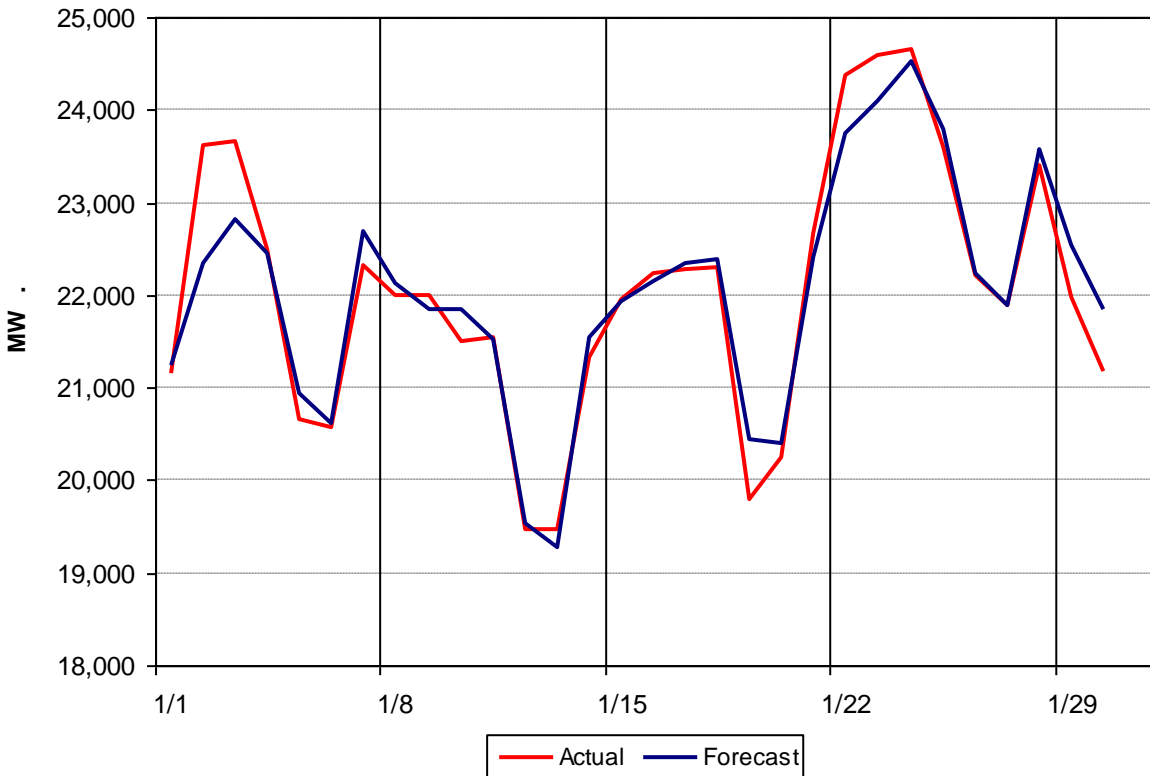
Billing Codes for Chart 4-C

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

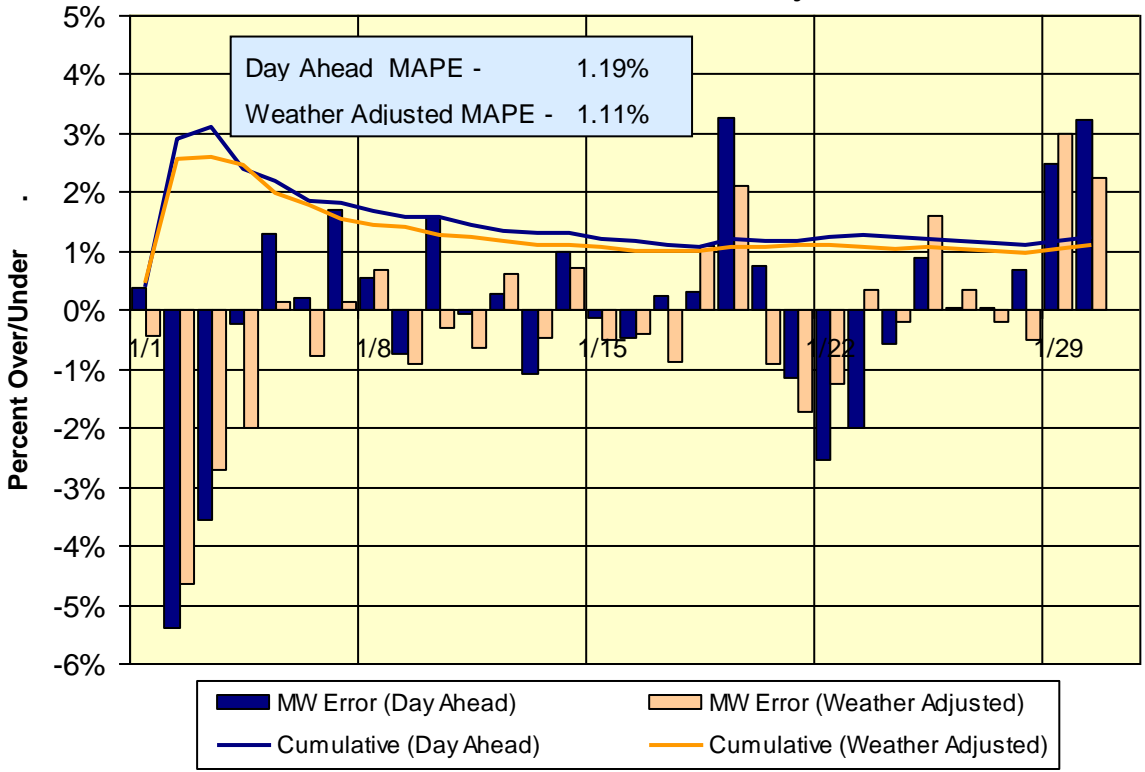
NYISO Daily Peak Load - January 2013
Actual vs Weather-Adjusted Forecast



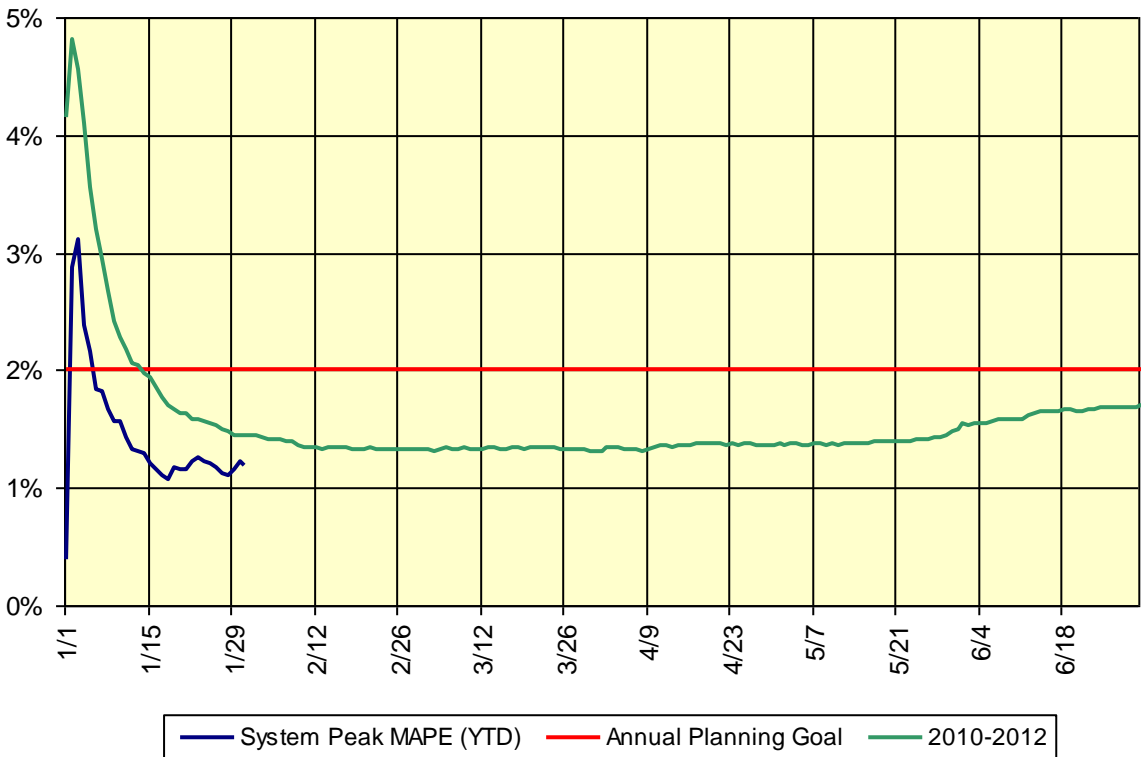
NYISO Daily Peak Load - January 2013
Actual vs Forecast



Day Ahead Peak Forecast - January 2013 Percent Error - Actual & Weather Adjusted



Day-Ahead Forecast Accuracy - Cumulative Performance 2013 Year-to-Date





Project **Status and Milestone Deliverables**

Business Intelligence Products

FERC Order 760

Status: In May 2012 the FERC, issued Order No. 760 – Enhancement of Electricity Market Surveillance and Analysis through Ongoing Electronic Delivery of Data from Regional Transmission Organizations and Independent System Operators ("Order 760"). Multiple implementations are required in order to comply with the Order. Per NYISO's compliance filing, NYISO has scheduled four deployments to begin providing the following data sets: (1) Supply offers for energy, (2) Virtual offers and bids and demand bids for energy, (3) Marginal cost estimates, energy and ancillary service awards, resource output, internal bilateral contract and uplift data, and (4) Day-ahead shift factors, supply offer and demand bids for ancillary services, capacity market offers, designations and prices, pricing data for interchange transactions, and TCC data.

Deliverables: The focus of this project in 2013 is the implementation of a fully automated process for on-going data delivery in compliance with the Order.

eTariff Business Owner Assignment

Status: NYISO's eTariff software has an add-on module called, Compliance Functionality, which leverages the electronic storage of the tariff beyond simply filing tariff changes with FERC. It provides the ability to associate a Business Owner with each tariff section and provides for email notifications when those sections are modified.

Deliverables: The 2013 project will focus on implementation of the Compliance Functionality module.

Capacity Market Products

Additional Capacity Zones

Status: The NYISO and stakeholders developed the rationale in 2010 for creating additional capacity zones, identified as a recommendation in the 2009 State of the Market report. NYISO submitted a FERC compliance filing in January 2011 to define the criteria for creating new capacity zones. The Market Design Concept was discussed with stakeholders in late October 2011, and the compliance filing was submitted in November 2011. Functional requirements are complete and software development is underway. Implementation is scheduled for 2014 consistent with the next Demand Curve Reset.

Deliverables: The 2013 project will focus on completing software development and testing for a January 2014 software deployment.

Demand Curve Reset

Status: Every three years the NYISO is required by the Market Services Tariff to update the demand curves. Price signals need to reflect the latest net cost of new entry estimates, providing the correct signals for market entry and exit. Also, the study must include potential new capacity locations.

Deliverables: The 2013 project will focus on completing the study and submitting the compliance filing.



Project **Status and Milestone Deliverables**

ICAP Reference System

Status: Market Mitigation and Analysis (MMA) collects extensive financial data from generation owners in order to perform the ICAP market mitigation measures. Now that the data collection process is standardized, efficiency and transparency could be gained by creating a web-based data portal that would allow MPs to upload and review their data. The NYISO and its consultants could use the data portal in the review process and to facilitate discussions with MPs. The anticipated deliverable is a Web-based software application, similar in concept to the Reference Level Software (RLS), but with different functionality. This software will enable MMA to complete pre-mitigation determinations for new capacity zones in an automated and timely manner.

Deliverables: The 2013 project will focus on completing software development and beginning the testing phase for a March 2014 software deployment.

Demand Response Products

DSASP Aggregations

Status: Based on the NYISO’s response to FERC Order 719, in 2010 NYISO and stakeholders discussed the changes needed to accommodate aggregated small demand response resources providing ancillary services (DSASP). The Market Design Concept to treat aggregations in the same manner as individual DSASP resources was proposed and approved by Market Participants at the December 2010 BIC. Functional requirements for direct communications were successfully completed and communicated to the Market Participants in 2011. Market rule changes and software changes are required to support the implementation of DSASP Aggregations. The deployment targeted for 4thQ 2012 has been rescheduled for 1st quarter 2013 due to the resource reallocation required to implement Order 755 in October.

Deliverables: The focus of the 2013 project is the implementation of the required rule changes and software changes.

Demand Response – Real Time Energy Market

Status: NYISO will focus on the development of market rules and identification of software changes required to permit demand response entities to participate in the NYISO’s real-time energy market. BIC and OC approved the Market Design concepts for this multi-year project in December 2012.

Deliverables: Completing the functional requirements specification is the focus of the project in 2013.

SCR Provisional ACL

Status: The SCR Program is the largest of the NYISO’s demand response programs, both in the number of individual demand side resources and MW. Since the SCR baseline changes were implemented in April 2011, the NYISO has received a significant number of comments, including three market participant presentations at the ICAPWG, regarding SCRs enrolled with a Provisional ACL. One of the presentations related to using the Provisional ACL as a way to allow resources to account for an increase in load since the last Capability Period, which would allow the SCR to offer more capacity. The scope of the project is intended to address four key areas from stakeholder comments:



Project **Status and Milestone Deliverables**

- 1) Address allowance for the use of Provisional ACL for SCRs that change RIPs;
- 2) Review the limitation on Provisional ACL for three consecutive Capability Periods;
- 3) Review SCR Load Zone Peak Hours for Winter ACL; and
- 4) Address increased baseline with reporting process to increase ACL values within a Capability Period.

Deliverables: The focus of the 2013 project is the implementation of the required rule changes and software changes.

SCR Baseline Study

Status: This project will evaluate the current Average Coincident Load (ACL) against a number of alternative response baseline calculations using a Customer Baseline Load (CBL) for SCRs. In February 2011, when the NYISO proposed, and stakeholders accepted, the change to the SCR baseline from Average Peak Monthly Demand (APMD) to ACL, the NYISO committed to conducting a study to evaluate an additional set of baseline calculations for measuring event response. The objective of the study is to determine if there is a method of estimating response to an event that will provide a better estimate of event response than the ACL.

Deliverables: Completing the study is the focus of the project in 2013.

Order 745 – Day Ahead Demand Response Program (DADRP) Compliance

Status: NYISO planned to implement the net benefits test in March 2012 based on the compliance filing submitted in August 2011. However, implementation was placed on hold pending a response from FERC. Also, as part of the compliance obligation, NYISO completed a study in August 2012 to evaluate the feasibility of incorporating a dynamic net benefits test into the day-ahead and real-time unit commitment and scheduling processes. A compliance filing detailing the results of the feasibility study was submitted to FERC in September 2012.

Deliverables: Upon receipt of a response from FERC, NYISO will evaluate the response and determine a feasible implementation date.

Energy Markets Products

Ancillary Services Mitigation

Status: Per recommendation of NYISO’s Market Advisor, NYISO should modify two mitigation provisions that may limit competitive 10-minute reserves offers in the day-ahead market. A market design concept was presented to stakeholders in the 4th quarter of 2011. Tariff changes and software changes were originally planned for 4th quarter 2012; this project has been rescheduled for delivery in 1st quarter 2013 due to the resource reallocation required to implement Order 755 in October. The software changes were successfully deployed in January 2013. This project is complete.

Deliverables: This project will focus on implementation of required tariff changes and software changes to support the market design.



Project	Status and Milestone Deliverables
Coordinated Transaction Scheduling (CTS) with New England	<p>Status: As part of the Broader Regional Markets initiatives, ISO New England (ISO-NE) and NYISO commenced the joint Inter-Regional Interchange Scheduling (IRIS) project. The main goal of this project is to improve price convergence between proxy buses of the two ISOs. For the IRIS project, two approaches were proposed according to the IRIS white paper¹ : Tie Optimization (TO) and Coordinated Transaction Schedule (CTS). The two ISOs agreed to pursue the latter. To implement the CTS approach, two design options were also proposed: the supply curve method proposed by NYISO; and the marginal equivalent algorithm suggested by ISO-NE. The two ISOs agreed to pursue the supply curve method based on the assumption that it is much easier to implement. In 2012 FERC accepted the tariff changes to implement CTS.</p> <p>Deliverables: The focus of this project in 2013 is completion of the functional requirements and building out and testing affected internal applications to reduce the development and testing effort needed prior to activation.</p>
Coordinated Transaction Scheduling with PJM	<p>Status: The State of the Market has recommended that NYISO continue to work with its neighbors to provide market efficiencies from transaction scheduling. This project will look to expand upon the work and concepts outlined in CTS with NE to improve transaction scheduling inefficiencies that can occur between PJM's physical transaction modeling and NYISO's economic based scheduling models. A market design concept was completed in 4th quarter 2012.</p> <p>Deliverables: The focus of this project in 2013 stakeholder approval of the market design.</p>
Scheduling and Pricing: Enhanced Scarcity Pricing	<p>Status: The 2010 State of the Market recommends the NYISO investigate the possibility of more efficient price setting when energy within the NYCA is scarce. The NYISO will evaluate the causes for the pricing inefficiency and, if necessary, develop and review with stakeholders potential market enhancements that will best capture most efficient price for periods with scarce energy. The Market Design was approved by MC in 4th quarter 2012.</p> <p>Deliverables: The focus of this project in 2013 is FERC approval of tariff changes and implementation of the software changes.</p>

¹ IRIS white paper (ISO New England), January 5, 2011, [Online] www.iso-ne.com/pubs/whthpprs/iris_white_paper.pdf



Project **Status and Milestone Deliverables**

Enterprise Products

Ranger Messaging Integration Phase II

Status: The 2012 Ranger Messaging Integration Project introduced new, core technology to integrate internal applications and new partner integrations such as Market to Market and other BRM initiatives. Phase II of this project will begin the use of Software AG technology to retire legacy Tibco Business Works implementations. The scope of Phase II includes the following:

- Re-engineer and replace existing enterprise service bus applications
- Implement a central repository for tracking and managing deployed services and dependencies
- Replace the Ranger embedded Tibco client with Software AG client libraries
- Re-engineering Wind Integration as an ESB supported ICCP integration service to support future ICCP integrations

Deliverables: The focus of this project in 2013 is a series of deployments to complete the identified scope.

Enterprise Project Management (EPM): Phase II

Status: In 2012 NYISO implemented Microsoft Project 2010 on the EPMLive application in a hosted environment that provides NYISO with up-to-date project scheduling and tracking tools, centralized and consistent project reporting for improved portfolio management, and improved project team collaboration. Phase II and subsequent phases will continue the implementation of the EPMLive application to provide a centralized system with an enterprise view of project demand, resource capacity, project costs, and resource utilization to support key decision making processes.

Deliverables: The focus of this project in 2013 is to migrate the platform in-house, followed by implementation of time tracking and functional requirements for resource management.

Finance Products

Energy Transaction Credit Enhancements

Status: Enhancements to the CMS application are needed to better align the credit requirements for external transactions (imports, exports, wheels) to the evolving market design for transactions occurring as part of the Broader Regional Markets initiatives. Market rules have been approved by stakeholders and detailed requirements are complete. Completion of the software development was originally scheduled for 4th quarter 2012 with implementation planned for 1st quarter 2013; this project was rescheduled for delivery in 2nd quarter 2013 due to the resource reallocation required to implement Order 755 in October 2012.

Deliverables: The focus of this project in 2013 is implementation of the software changes.

Oracle Financials Upgrade

Status: The purpose of this project is to upgrade the existing application to an enhanced and more technologically



Project	Status and Milestone Deliverables
---------	-----------------------------------

	<p>advanced version of Oracle Financials to better support the existing functionality of the Finance team and to allow the team to perform at a higher level of efficiency. An upgrade will provide the Finance team the ability to utilize improved and more user friendly functions in the existing modules. Also, an upgrade to the latest version will allow the team to take advantage of new modules and functionality to further automate manual processes for procurement and utilize additional functionality for accounts payable, sub-ledger accounting and reporting tools.</p> <p>Deliverables: The focus of this project in 2013 is completion of the Architectural Design and initiation of the software upgrade.</p>
--	---

Performance Tracking System Replacement	<p>Status: The purpose of this project is to replace the existing NYISO Performance Tracking System (PTS). PTS is the source of Generator RTD MW data for all real-time settlements data calculations and the source of all inputs into the sub-zonal load calculation. The functional requirements were completed in 2012.</p> <p>Deliverables: The focus of this project in 2013 is deployment of the replacement system to production.</p>
---	---

Operations & Reliability Products

Energy Management System (EMS) Visualization	<p>Status: This is a multi-year project to determine the requirements, design and to implement the necessary situational awareness, data redundancy and communication infrastructure to facilitate operational control from the new Krey Primary Control Center. The Architectural Design was completed in 2012.</p> <p>Deliverables: The focus of this project in 2013 is implementation in the new Primary Control Center.</p>
--	--

Hudson Transmission Partners (HTP) Controllable Tie Line	<p>Status: This project supports the implementation of a new controllable tie line from PJM into NYCA. Targeted commercial date is mid- 2013. Software changes are targeted for 1st quarter 2013 based on a revised schedule from HTP.</p> <p>Deliverables: The focus of this project in 2013 is to deploy the required software changes in support of the targeted commercial operation date.</p>
--	---

Load Forecaster Upgrade	<p>Status: The purpose of this project is to replace the existing load forecaster application supplied by Itron with Itron's new product called, MetrixDR, for purposes of updated technology and functionality, operational enhancements and easier maintenance.</p> <p>Deliverables: The focus of this project in 2013 is working with the vendor to complete software development with plans to begin testing and implement in 2014.</p>
-------------------------	---

Phase I Meter Upgrade	<p>Status: The purpose of this project is to move existing and new circuits to a new configuration and to add the new</p>
-----------------------	--



Project **Status and Milestone Deliverables**

building to the network, which is required in order to fully support Phase I data needs in the new control center. The Architectural Design was completed in 2012.

Deliverables: The focus of this project in 2013 is completion of the upgrade.

Ranger Optimization & Performance Enhancements

Status: The NYISO’s unit commitment and economic dispatch process utilizes Lagrangian Relaxation (LR) and MINOS technologies. These are being replaced across the industry with Mixed Integer Programming (MIP)/linear programming optimization approach. The NYISO is the last remaining Ventyx/ABB customer on legacy LR/MINOS, which was developed in the late 1970s. MIP provides increased constraint modeling flexibility through high level modeling languages and current compiler and system optimization development, as well as greater IT support.

Deliverables: The focus of this project in 2013 is working with the vendor to complete software development with plans to begin testing and implement in 2014.

Planning and TCC Market Products

High Performance Computing (HPC) Phase II

Status: The purpose of this project is to better support tariff mandated activities performed by the Planning group, such as IRM, RNA, and CARIS. HPC Phase 1, implemented in 2011, established a single High Performance Computing (HPC) environment and procured a site license for running GE MARS. This resulted in a significant efficiency gain with application run time shifting from 16 hours to 30 minutes on average. Phase II of the project established the GE MAPS application in the HPC environment in 2012. Phase III will establish the redundant environment, reconfigure the deployment of the applications within HPC environment to spread load across both facilities, and procure licensing beyond the seven cores for GE MAPS.

Deliverables: The focus of this project in 2013 is implementation.

Multi-Duration Centralized TCC Auction Phase II

Status: This project continues the 2012 efforts to provide TCC Auction enhancements. Phase I was implemented in 2012 to offer the Non-Historic Fixed-Price TCC product beginning with the Spring 2013 Centralized Auction per NYISO’s compliance filing. Subsequent phases will focus on delivering additional functionality and automation in priority order with the MPs. Phase II will focus on requirements and implementation of the top priority, which is the Balance-of-Period auction format and any required credit management system changes. Once implemented, MPs would be able to reconfigure their remaining months within the capability period and adjust credit requirements to match the remaining capability period.

Deliverables: The focus of this project in 2013 is completion of the functional requirements.

Siemens PTI Model-on-Demand Phase II

Status: Currently, updates to the transmission model are emailed to NYISO by the TOs. The purpose of this project is to



Project	Status and Milestone Deliverables
---------	-----------------------------------

implement a web portal for the Siemens PTI Model-on-Demand software that will allow the TOs to provide, review, update, correct, and approve network model data in a structured, interactive manor. NYISO will then review, work with TOs to update and correct if needed, and approve. As part of this project a redundant production environment and matching staging test environment will be developed. The software design specification was completed in 2012.

Deliverables: The focus of this project in 2013 is implementation of the web portal.

Summary Description of FERC Regulatory Filings, Investigations and Rulemakings and Related Orders in NYISO Matters January 2013

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
08/03/2012	NYISO filing of a motion to terminate its obligation to submit semi-annual price correction reports	ER06-1014-000	01/02/2013	FERC letter order granting NYISO's request to terminate obligation to submit price correction reports	Accepted
10/31/2012	NYISO filing of a request for clarification or rehearing of the 10/1/12 Order on Complaint re: language indicating that Linden VFT did not need to submit a new Interconnection Request on the basis of a performance test conducted after their establishment of the initial grandfathered CRIS level	EL12-64-000	01/02/2013	FERC letter order clarifying that a footnote in its 10/1/12 order did not create an exemption to NYISO's interconnection procedures	Accepted
11/02/2012	NYISO 205 filing re: ancillary services mitigation offers	ER13-298-000	01/04/2013	FERC letter order accepting filing effective 1/22/12 – NYISO requested 1/22/13 ;1/8/13 FERC notice correcting effective date to 1/22/13	Accepted
11/30/2012	NYISO compliance filing re: MST RS5 black start and system restoration service provisions	ER12-2568-002	01/08/2013	FERC letter order accepting revisions effective 11/1/12, as requested	Accepted
12/20/2012	NYISO 205 filing re: OATT & MST billing and settlements issues	ER13-599-000	01/29/2013	FERC letter order accepting revisions effective 2/18/13, as requested	Accepted
12/24/2012	NYISO and PJM joint filing of a request for a temporary, limited waiver of sections 7 and 10 of Schedule D to the JOA between NYISO and PJM	ER12-718-003	01/14/2013	FERC letter order granting limited waiver from 1/15/13 – 6/30/13, as requested	Accepted
01/07/2013	NYISO filing of responses to FERC questions re: information sharing and communication issues between the natural gas and electric power industry participants	AD12-12-000			
01/15/2013	NYISO annual report filing for informational purposes re: Demand Side Management Programs	ER01-3001-000			
01/18/2013	NYISO filing of comments with the NYSPSC re: 2013-2014 installed reserve margin	Cs 07-E-0088			
01/18/2013	NYISO compliance filing re: interface pricing	ER13-780-000			

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
01/22/2013	NYISO compliance filing re: Regulation Movement Response Rate under Order No. 755	ER12-1653-002			
01/22/2013	NYISO filing of amended restated SGIA no. 1677 among the NYISO, NYSEG, and AES Westover	ER13-789-000			
01/22/2013	NYISO filing of limited comments in answer to comments and protests filed in Cayuga's cost-of-service agreement proceeding	ER13-405-000			
01/23/2013	NYISO joint filing with the parties requesting extension of comment period deadline to continue negotiated resolution of the Marble River complaint	EL13-20-000	01/24/2013 01/25/2013	01/24/13 – FERC notice shortening the answering period to the parties' 1/23/13 motion to 1/24/13 01/25/13 – FERC notice extending the period to file answers, interventions, comments and protests re: Marble River complaint v 3 windparks and NYISO	Substantive order not yet issued
01/24/2013	NYISO tariff and NYISO/PJM Joint Operating Agreement revisions to implement the Hudson Transmission Partners Scheduled Line	ER13-792-000			
01/24/2013	NYISO answer to the protest of Cape Vincent Wind Power in response to the NYISO filing re: interconnection procedures tariff revisions	ER13-588-000			
01/25/2013	NYISO errata filing to correct eTariff effective date in 1/18/13 filing re: interface pricing	ER13-780-001			
01/25/2013	NYISO errata refiling to correct eTariff effective date in 1/18/13 filing re: interface pricing	ER13-780-002			
01/30/2013	NYISO compliance filing re: 12/31/12 order to incorporate the definition of the term "blind trust" into the OATT	ER13-435-001			
01/30/2013	NYISO compliance filing re: 12/31/12 order to incorporate the definition of the term "blind trust" into the ISO Agreement	ER13-437-001			
01/31/2013	4 th quarter 2012 EQR report	ER02-2001-000		No order to be issued	