



Monthly Report

September 2011

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Operations Performance Metrics Monthly Report



September 2011 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 October 10, 2011.

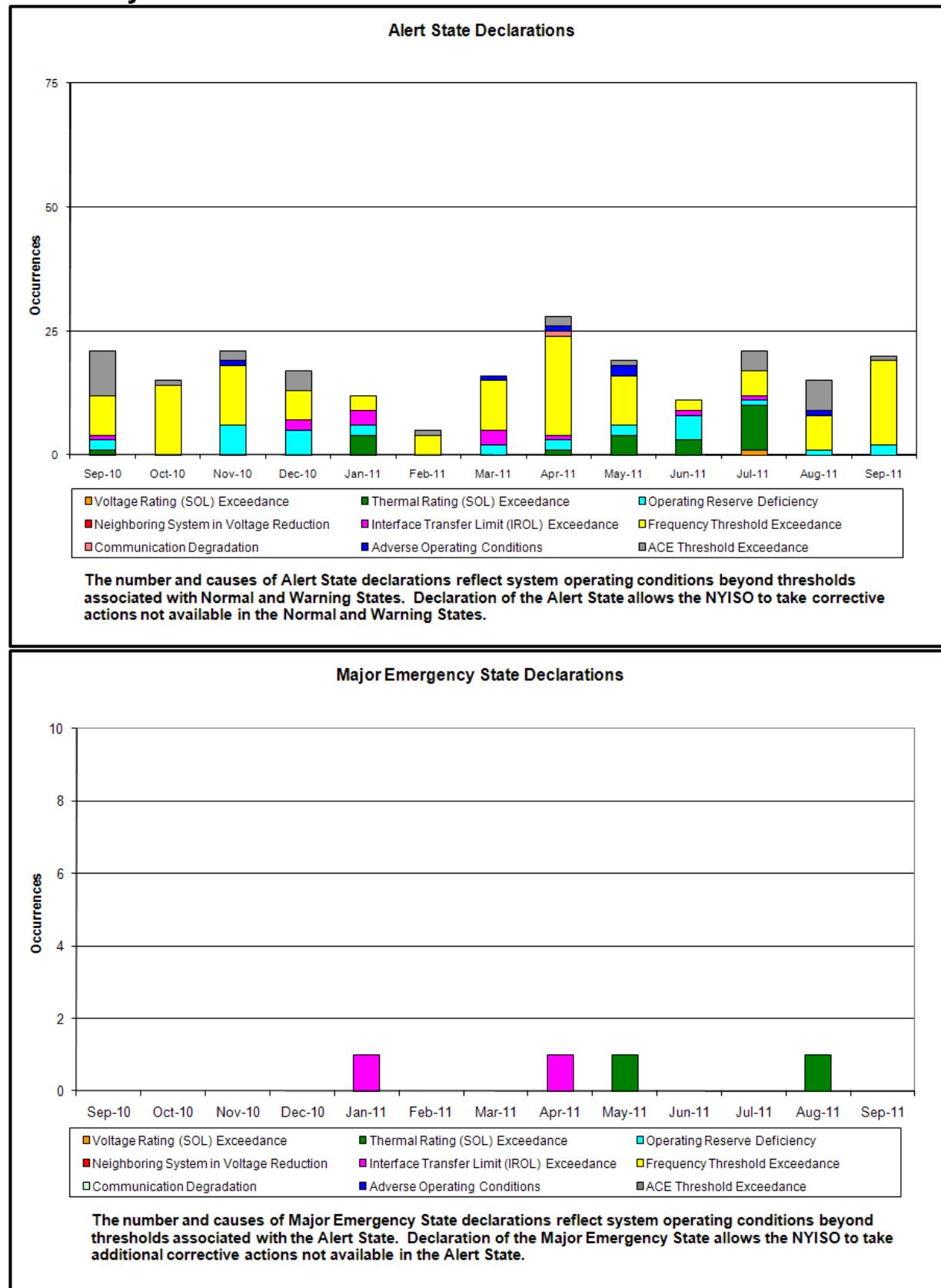
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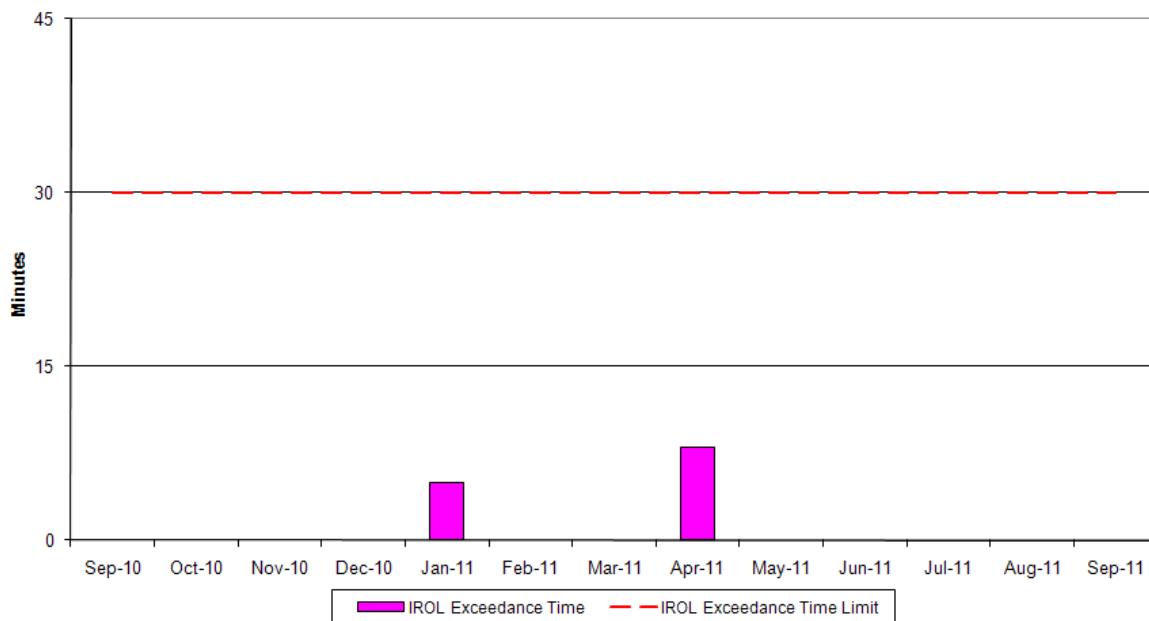
September 2011 Operations Performance Highlights

- Peak load of 25,360 MW occurred on 9/13/2011 HB 16
- All-time summer capability period peak load of 33,939 MW occurred on 8/2/2006 HB13
- 17 hours of Thunder Storm Alerts were declared.
- **Continued Levels of Clockwise Lake Erie Loop Flows**
 - 35 hours of NERC TLR level 3 curtailments
 - Simultaneous, Beck – Niagara and Beck – Packard outages are scheduled for Fall 2011, expected to begin December 5
 - Local reliability costs and commitment hour charts are now included

Reliability Performance Metrics

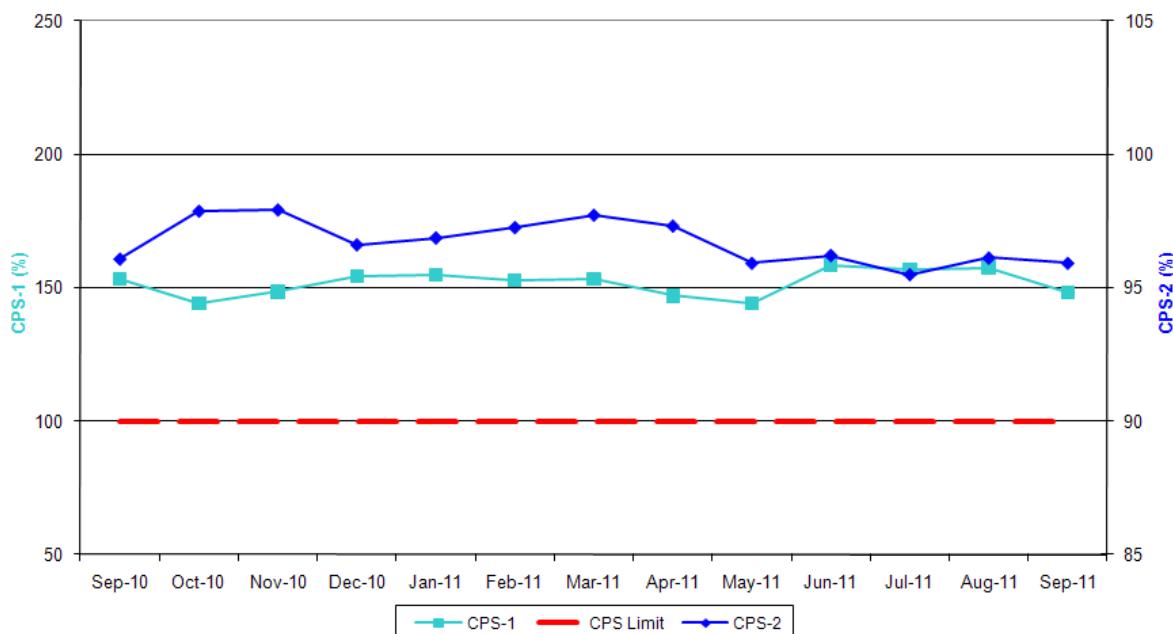


NERC IROL Time Over Limit



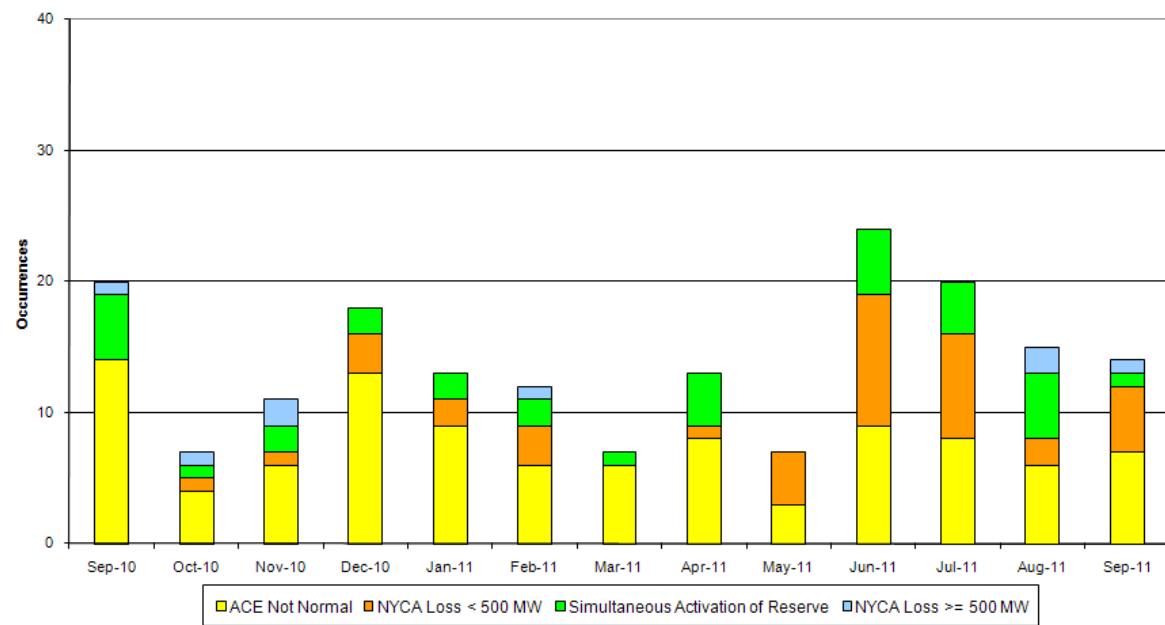
For IROL exceedances leading to Major Emergency State declarations, the maximum IROL exceedence time is identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

NERC Control Performance Standards



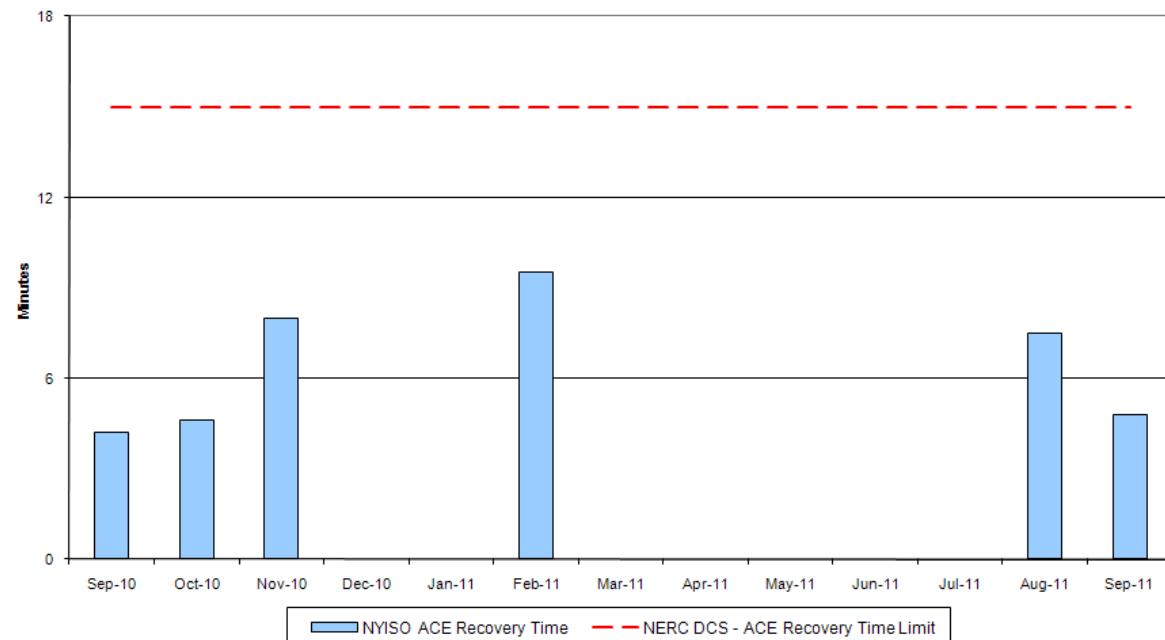
The values of NERC Control Performance Standards (CPS-1 and CPS-2) are indicators of the NYISO Area resource and demand balancing. Values exceeding the identified thresholds are NERC compliant.

Reserve Activations

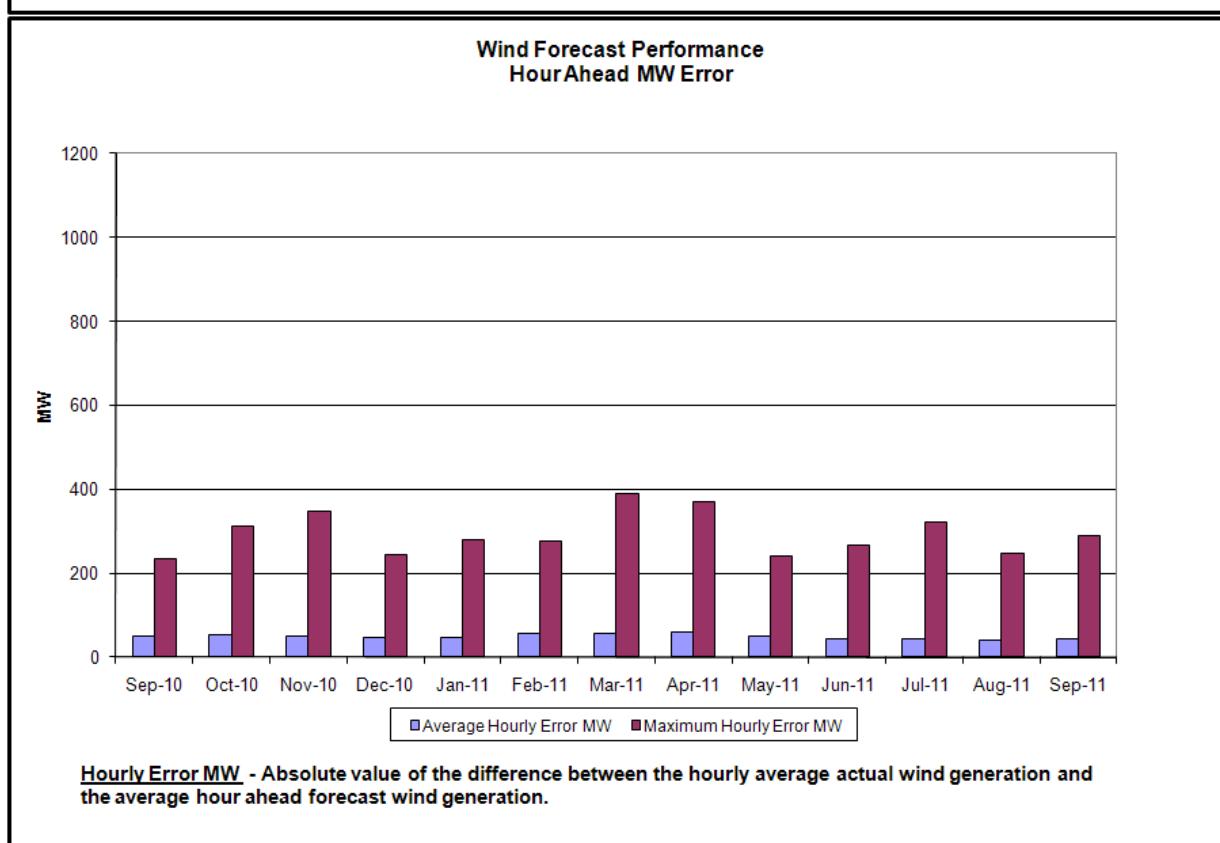
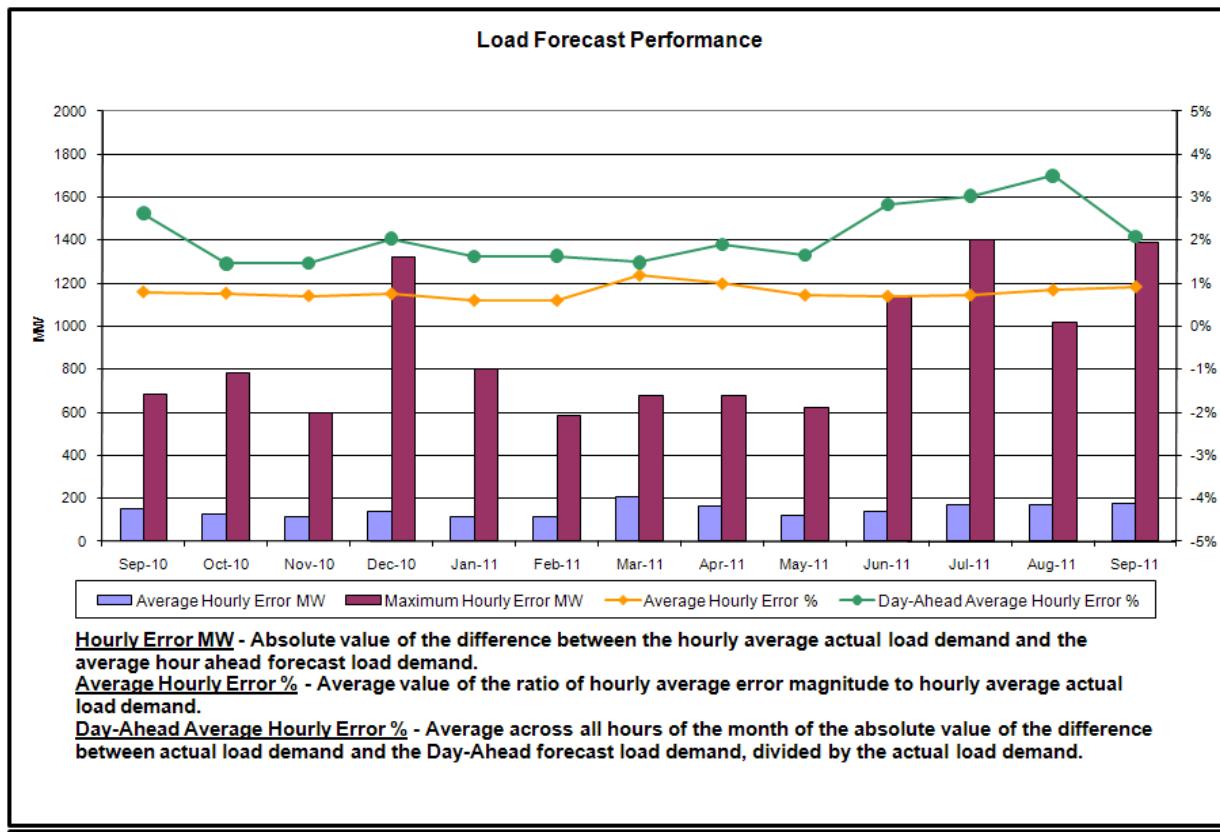


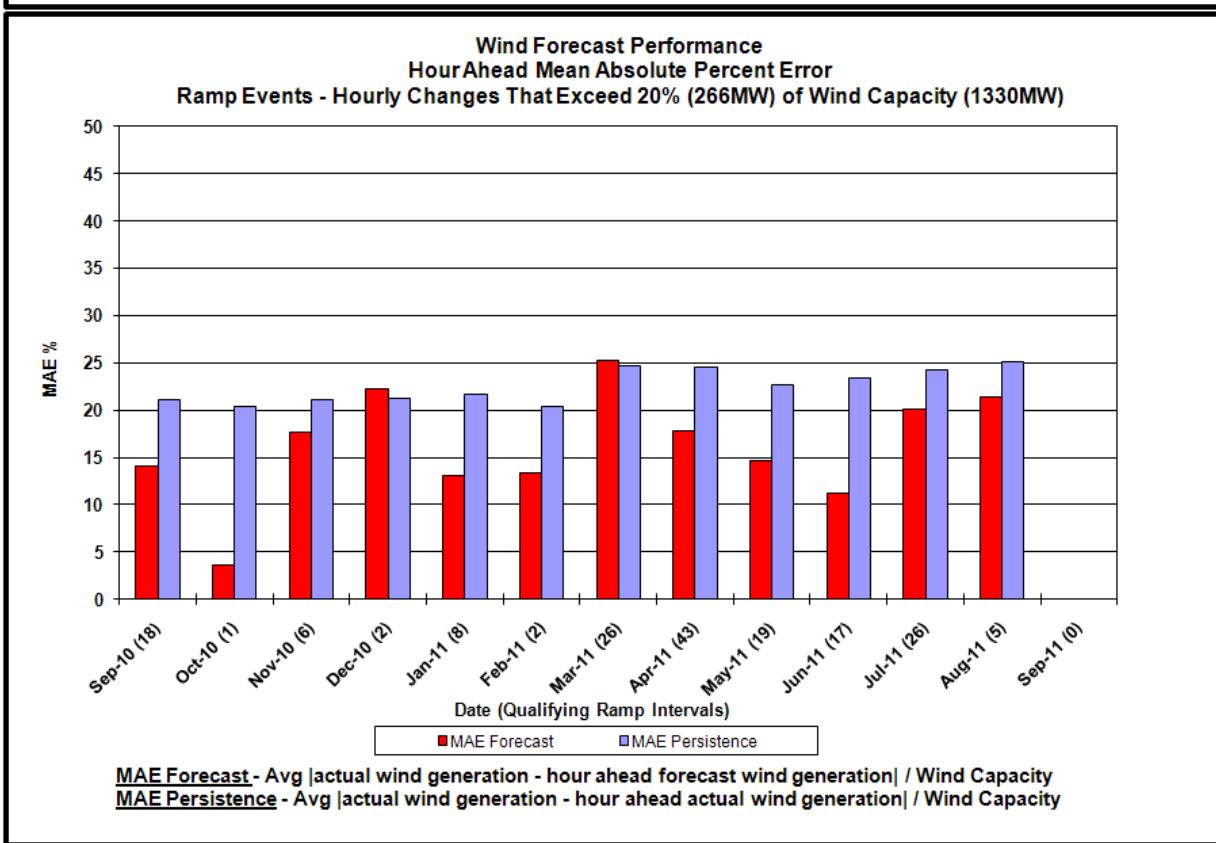
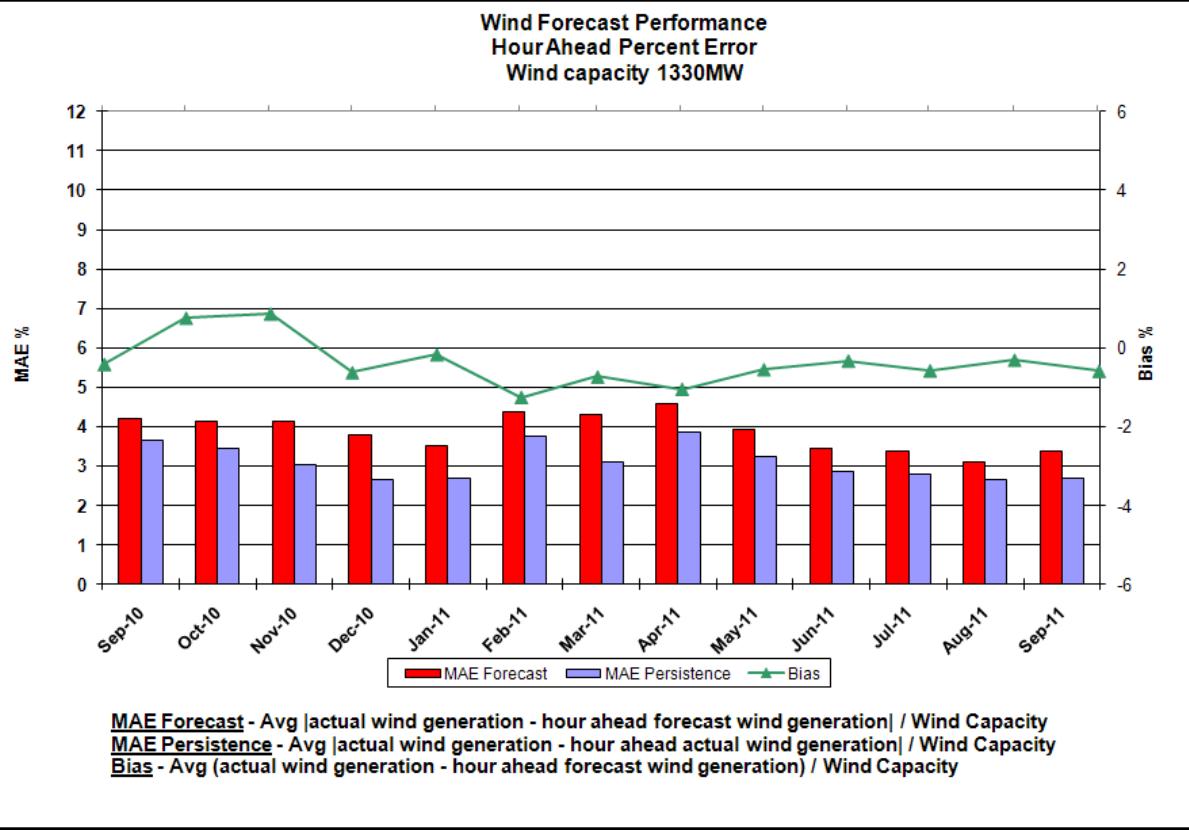
NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Shared Activation of Reserves) by activating an immediate resource and demand balancing operation.

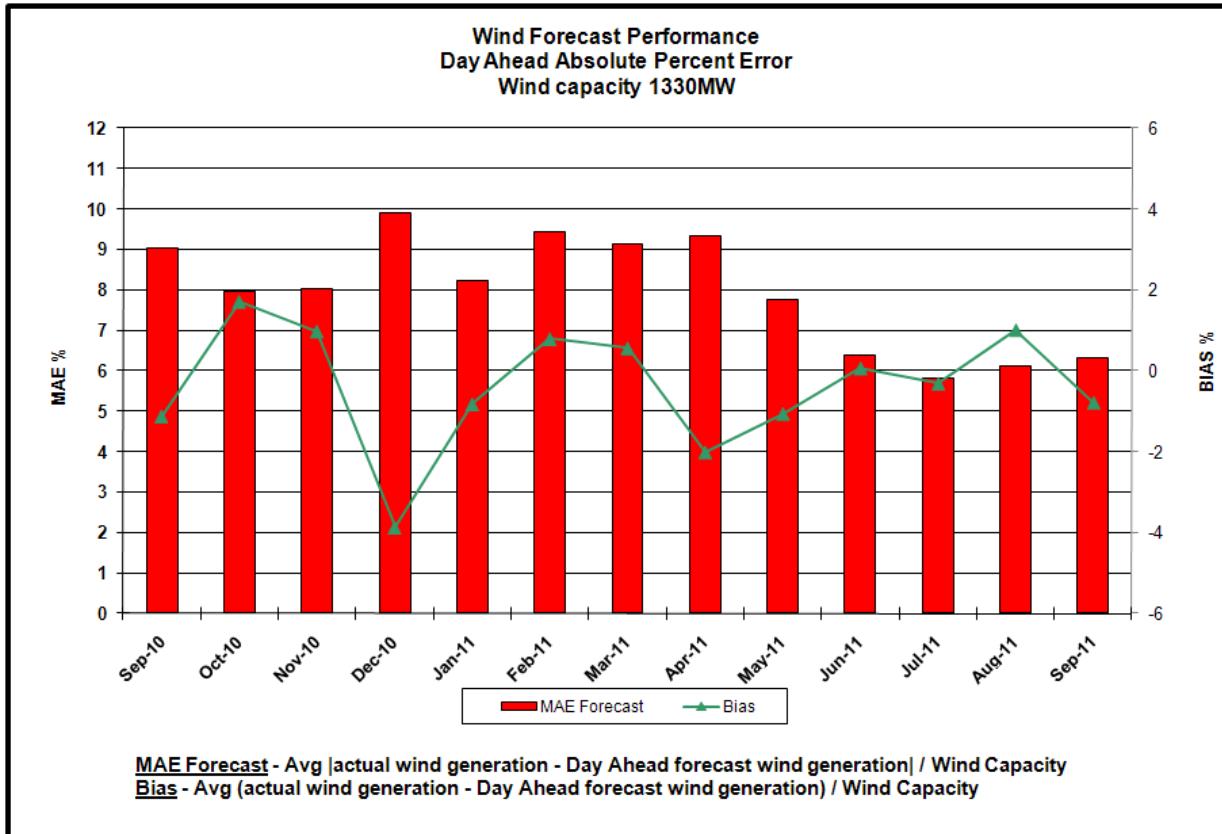
DCS Event Time to ACE Recovery

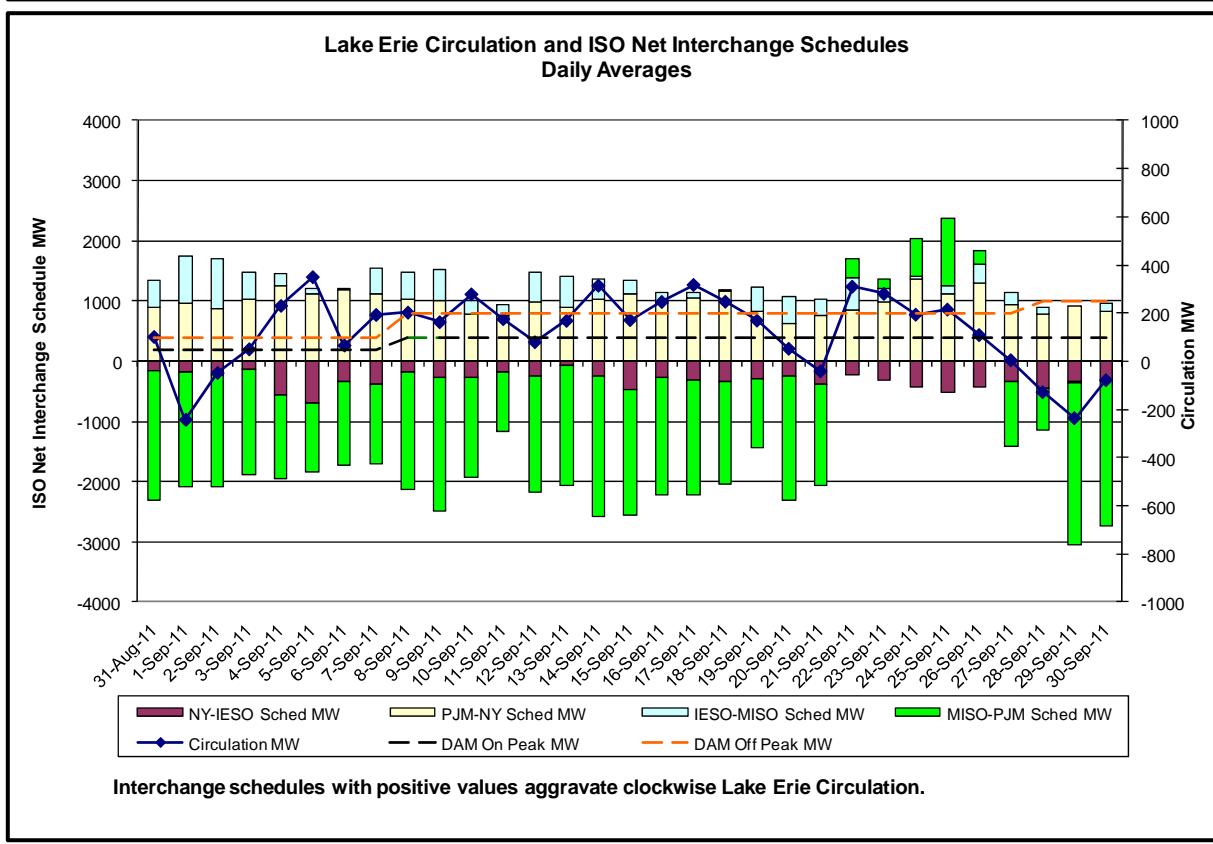
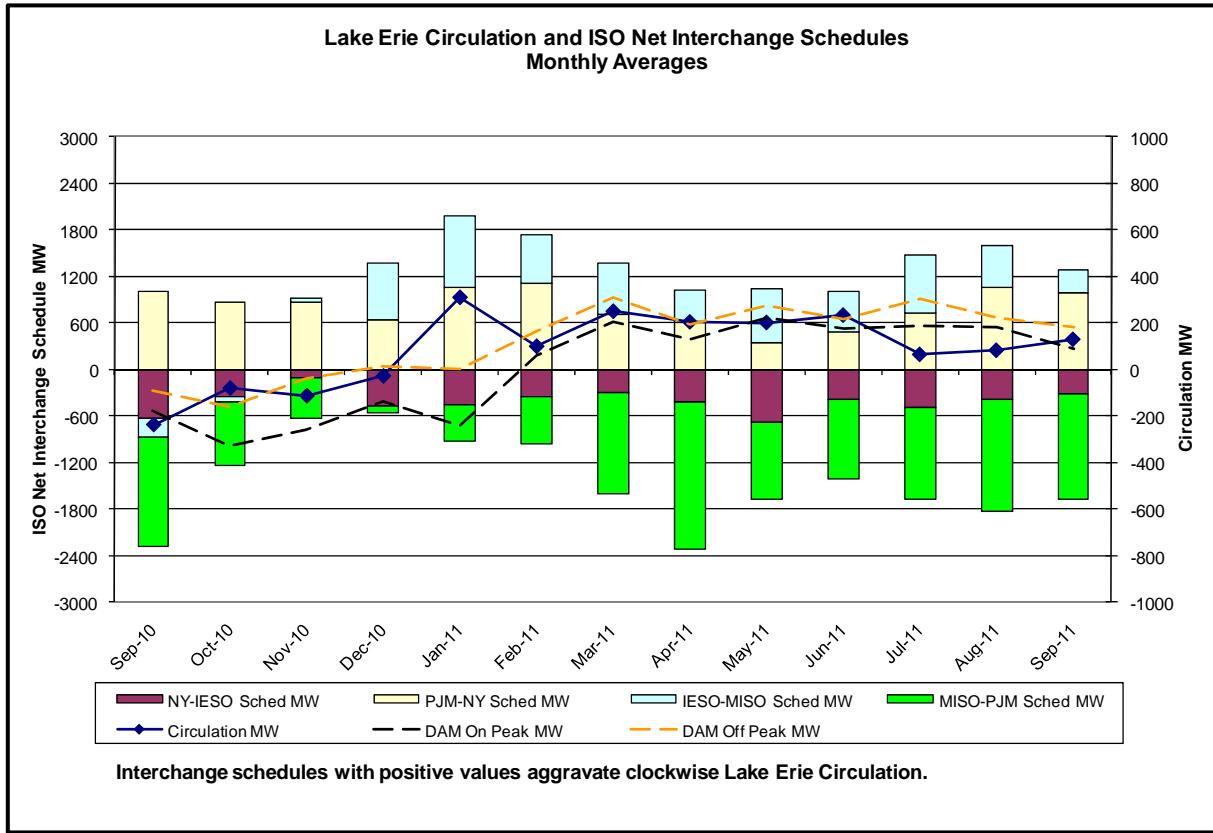


For NYISO initiated Reportable Disturbances, the maximum ACE recovery time is identified. Recovery times of less than 15 minutes are considered NERC compliant.

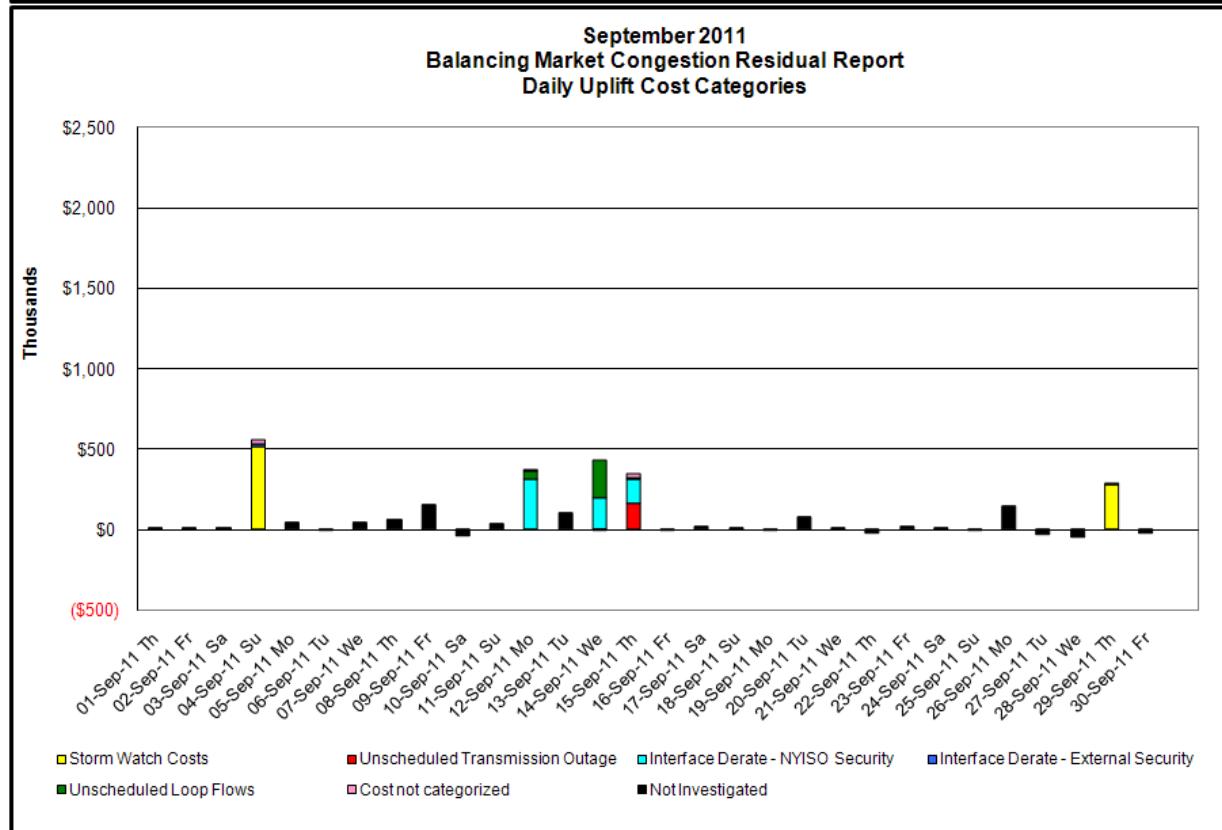
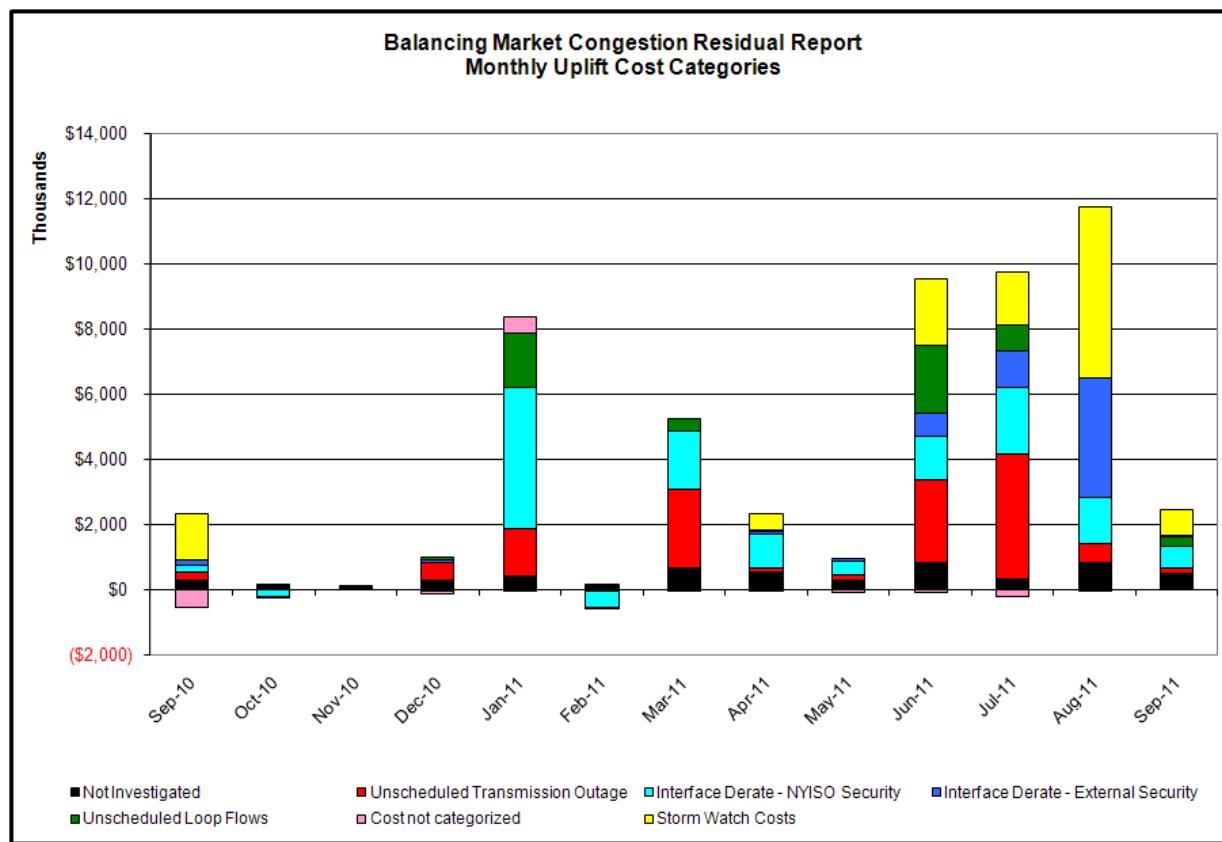








Market Performance Metrics



Day's investigated in September: 4,12,14,15,29

Event	Date (yyyy)	Hours	Description
9/4/2011		12,13	Thunder Storm Alert
9/4/2011		14	HQ_CHAT-NY Scheduling Limit
9/12/2011		13,20	Derate Dunwoodie-Shore Road 345kV (#Y50)
9/12/2011		20	Derate GowanusS-Greenwood 138kV (#42232)
9/12/2011		11-20	Derate Leeds-New Scotland 345kV (#93) for I/o Leeds-New Scotland 345kV (#94)
9/12/2011		18-20	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Leeds-New Scotland (#93)
9/14/2011		19	Uprate Central East
9/14/2011		13-18,20,21,22	Derate Dunwoodie-Shore Road 345kV (#Y50)
9/14/2011		12-14,16-18,21-22	Derate GowanusS-Greenwood 138kV (#42232)
9/14/2011		19	Uprate GowanusS-Greenwood 138kV (#42232) for I/o TWR:Goethals
9/14/2011		12-18,20-22	Derate Leeds-New Scotland 345kV (#93) for I/o Leeds-New Scotland 345kV (#94)
9/14/2011		12-18,20-22	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Leeds-New Scotland (#93)
9/15/2011		0,1,7-17	Forced outage Freshkills-Goethals S 345kV (#21)
9/15/2011		13,15,16	Derate Astoria West/Queensbridge/Vernon
9/15/2011		7,16	Derate Dunwoodie-Shore Road 345kV (#Y50)
9/15/2011		7,9-17	Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o SCB (#RNS2)
9/15/2011		16-17	Derate Greenwood/Staten Island
9/15/2011		8,9,11	Derate Leeds-New Scotland 345kV (#93) for I/o Leeds-New Scotland 345kV (#94)
9/15/2011		0,1	NYCA DNI Ramp Limit
9/15/2011		11	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Leeds-New Scotland (#93)
9/29/2011		13,14,19,20	Thunder Storm Alert

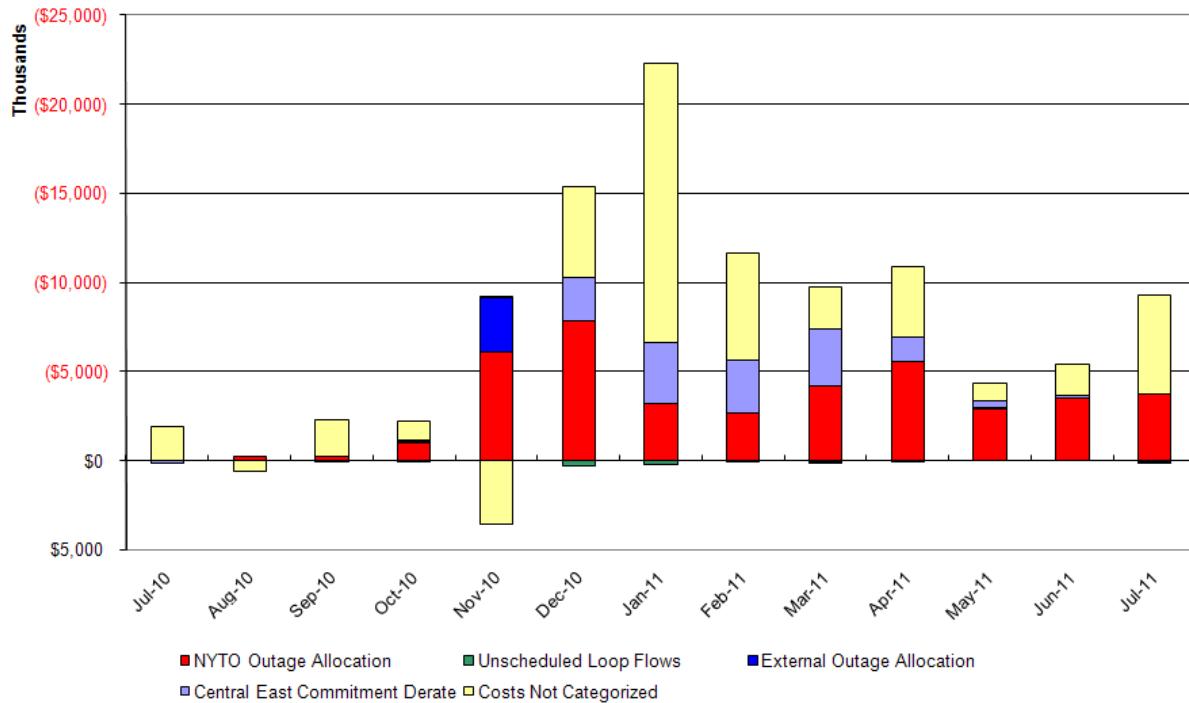
Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

<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

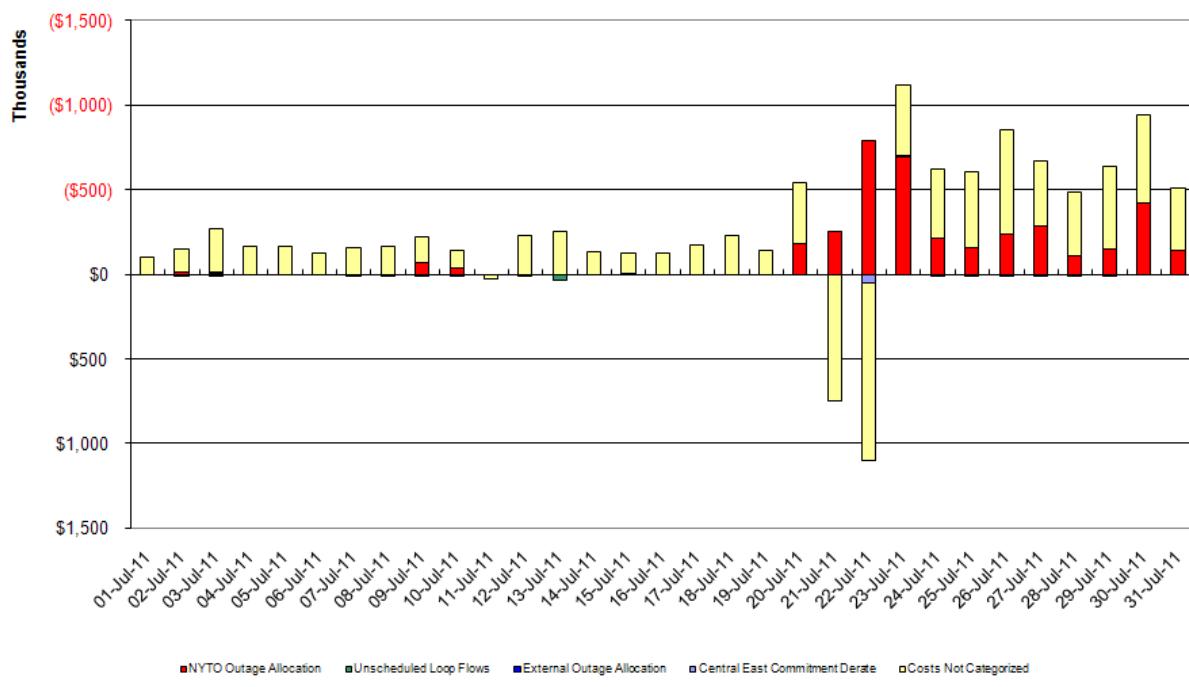
Monthly Balancing Market Congestion Report Assumptions/Notes

- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) At a minimum those days with \$ 100 K/Hr, shortfall of \$200 K/Day or more, or surplus of \$ 100 K/Day or more are investigated
- 3) Uplift costs associated with multiple event types are apportioned equally by hour
- 4) Investigations began with Dec 2008. Prior months are reported as Not Investigated.

DAM Congestion Residual Report Monthly Cost Categories



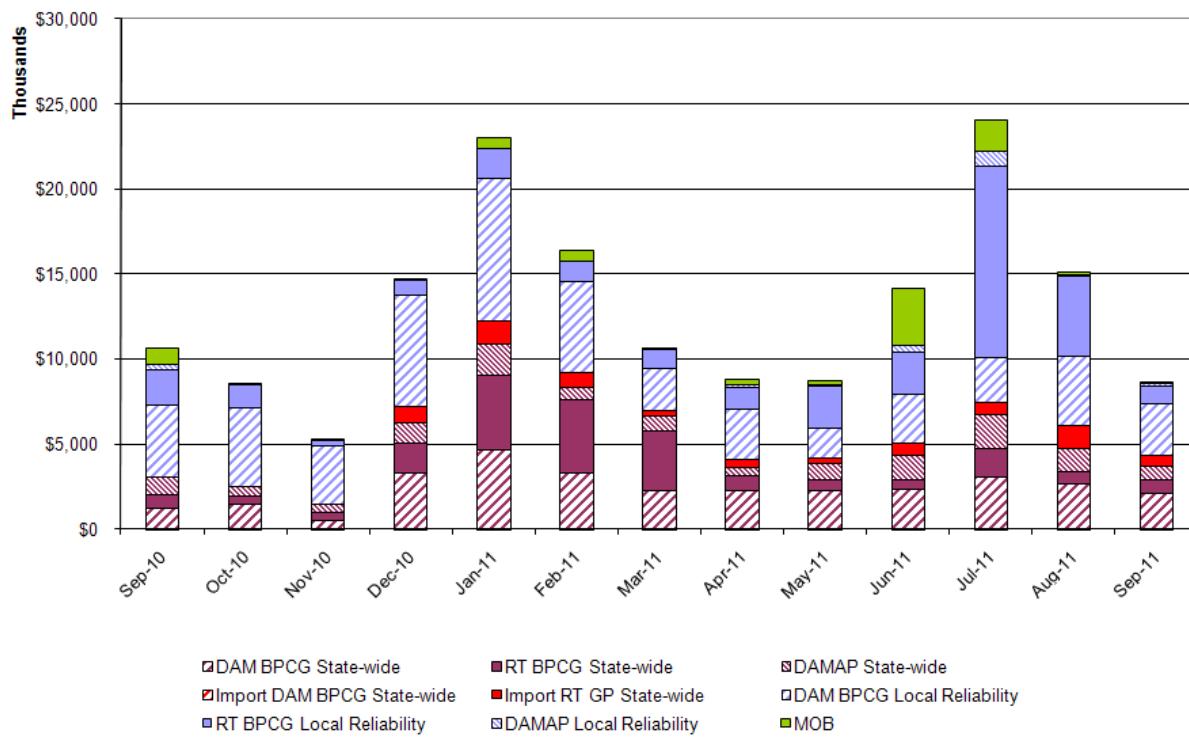
July 2011 DAM Congestion Residual Report Daily Cost Categories



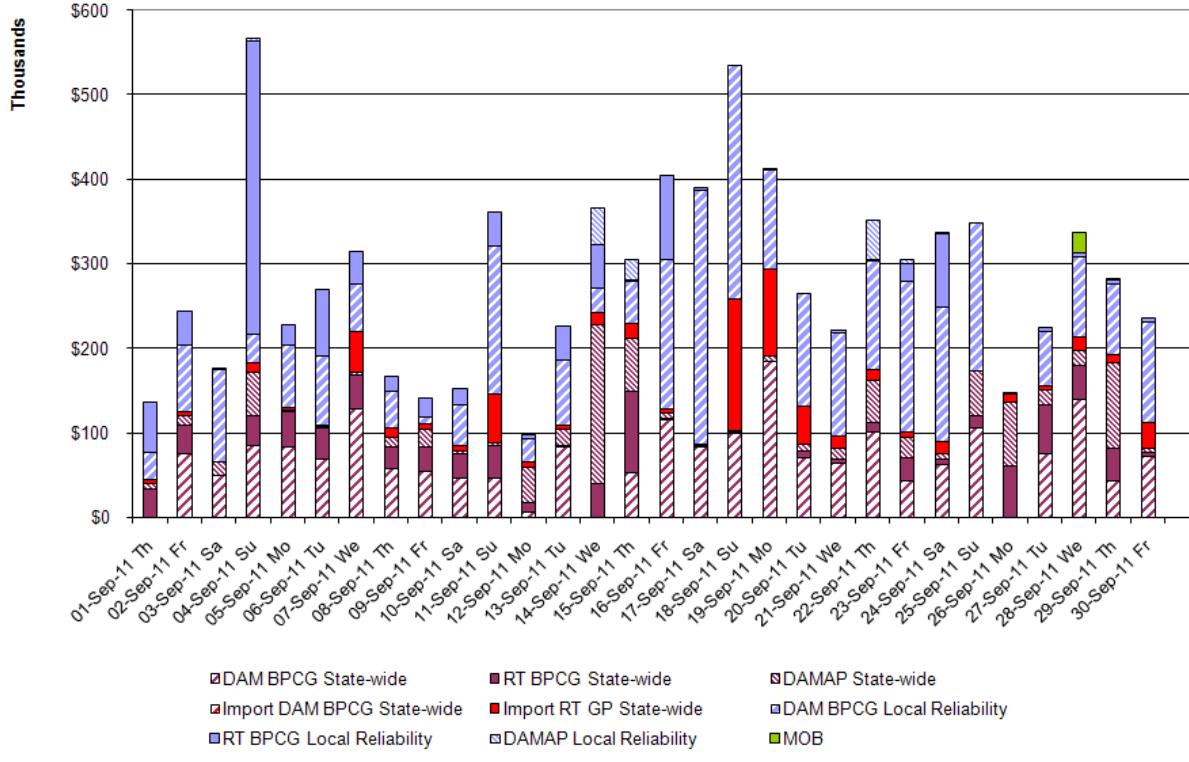
Day-Ahead Market Congestion Residual Categories

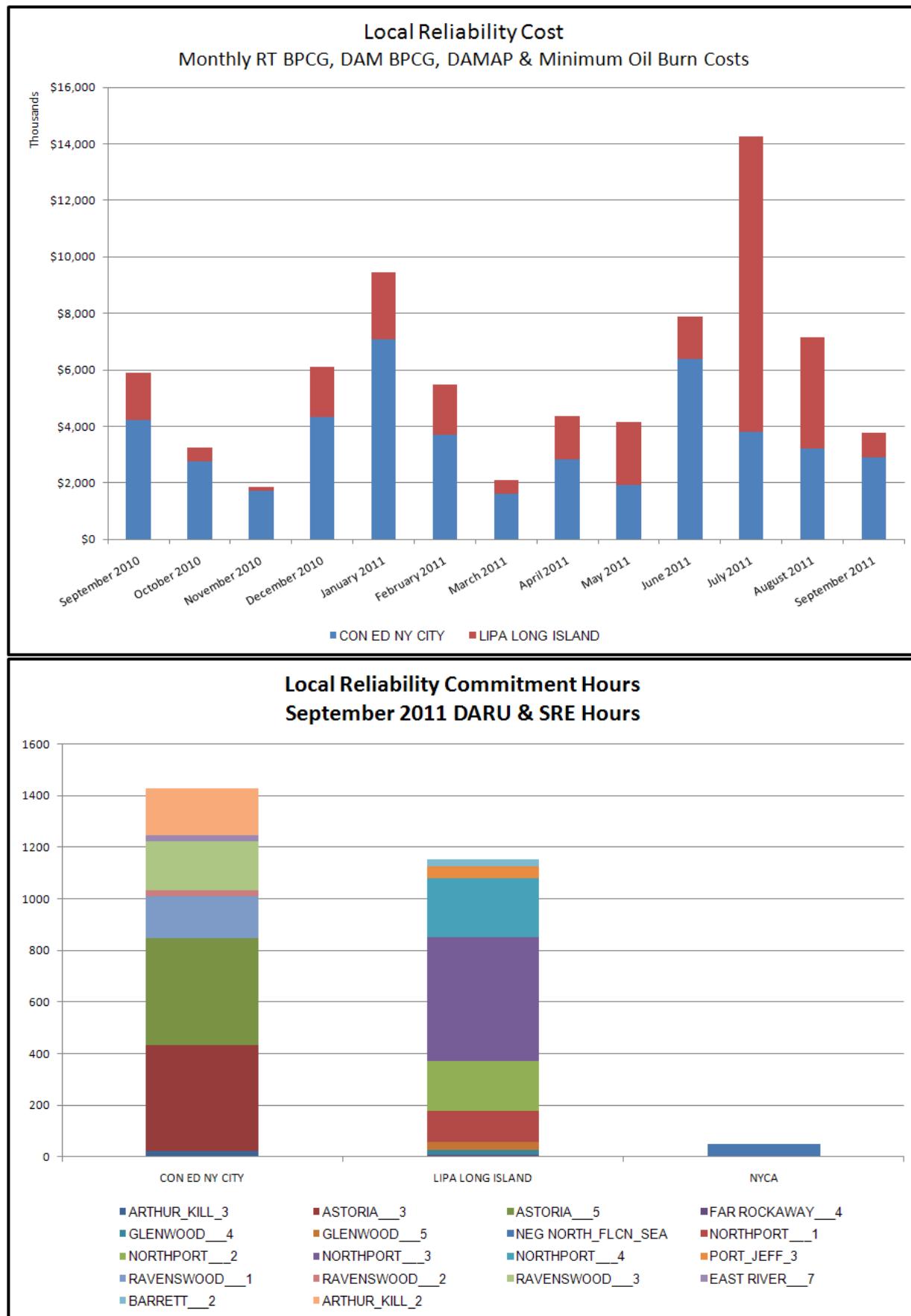
<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
Unscheduled Loop Flows	All 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.	

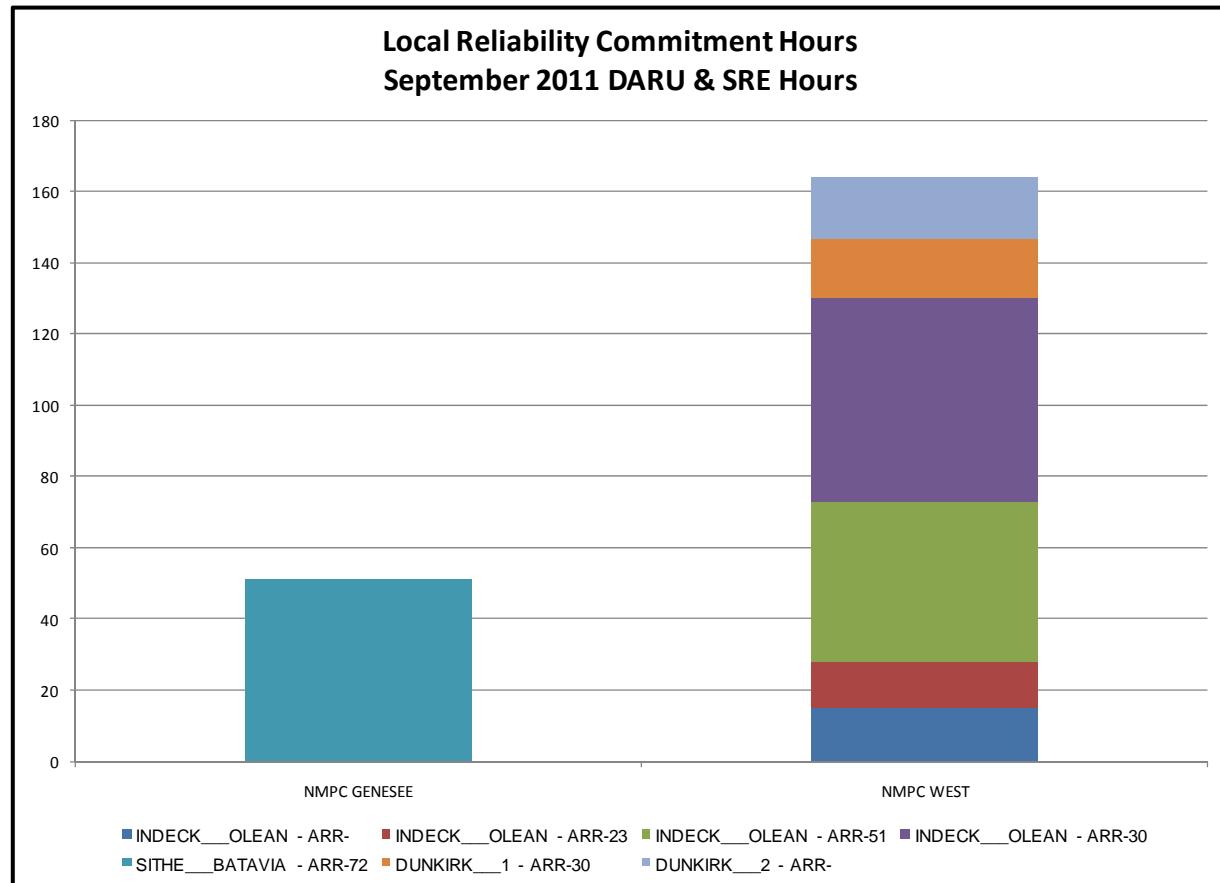
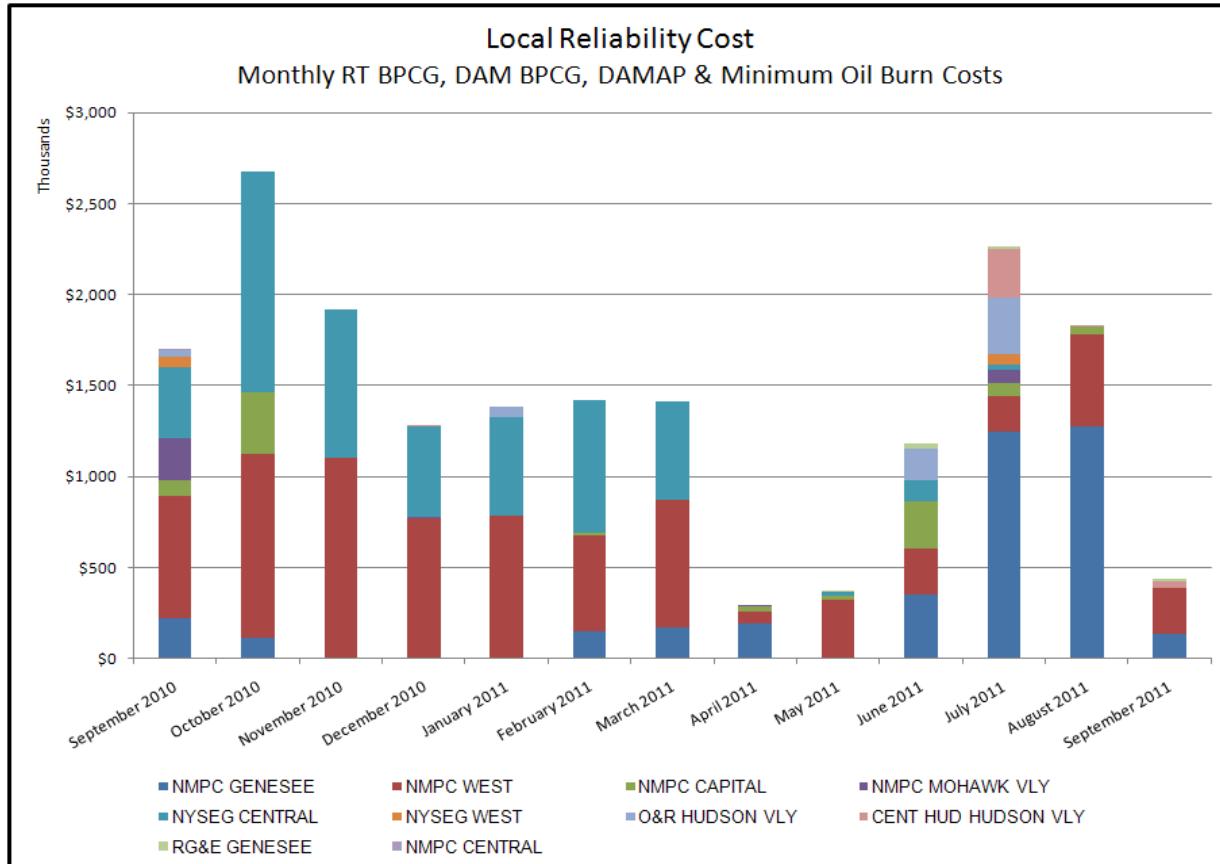
Monthly Power Supplier Uplift Components

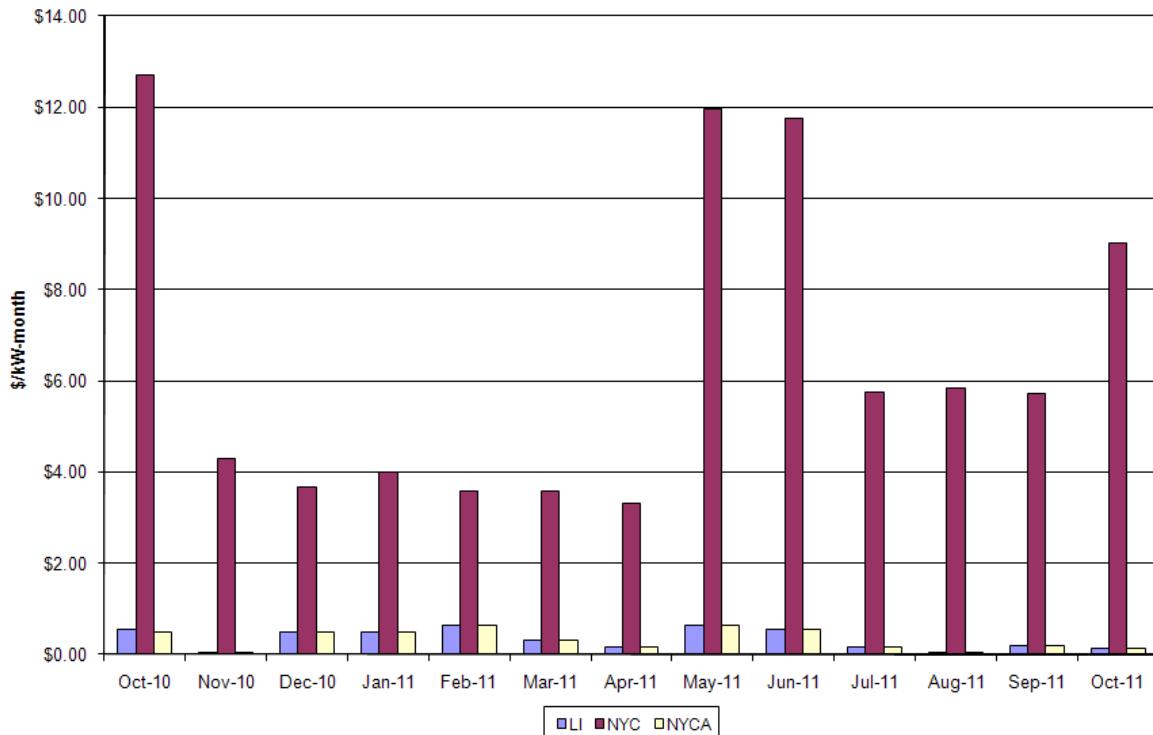
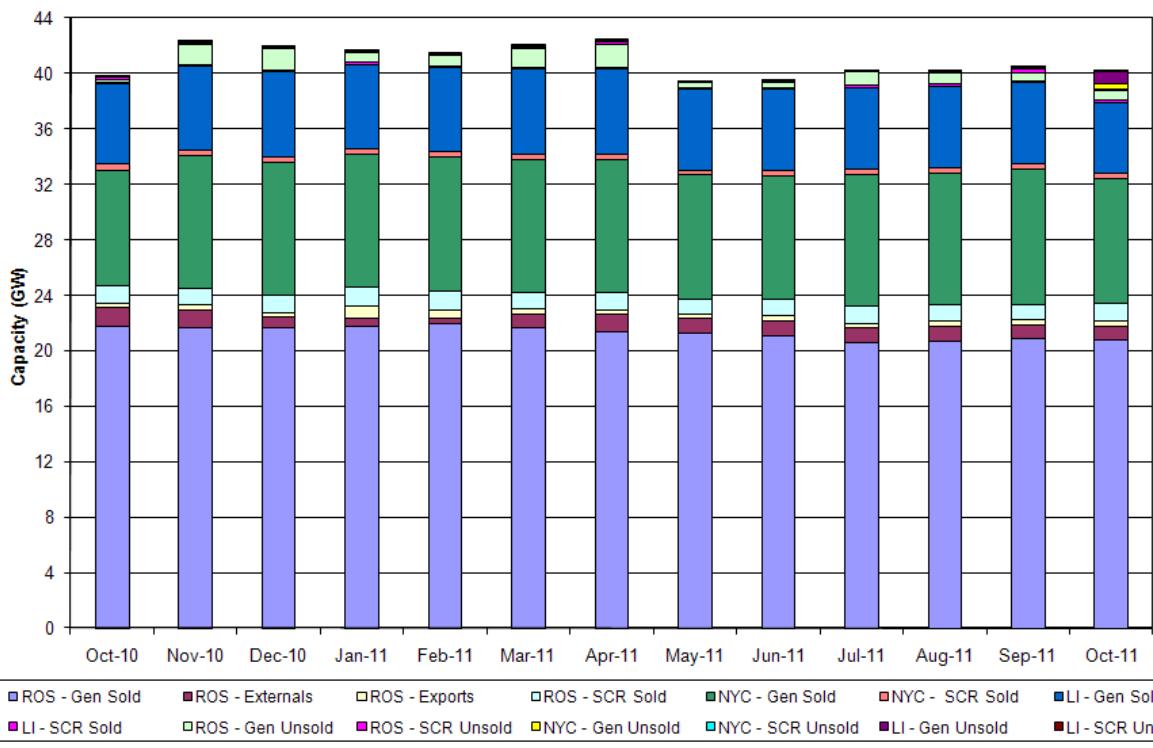


September 2011 Daily Power Supplier Uplift Components







ICAP Spot Market Clearing Price

UCAP Sales


Market Performance Highlights for September 2011

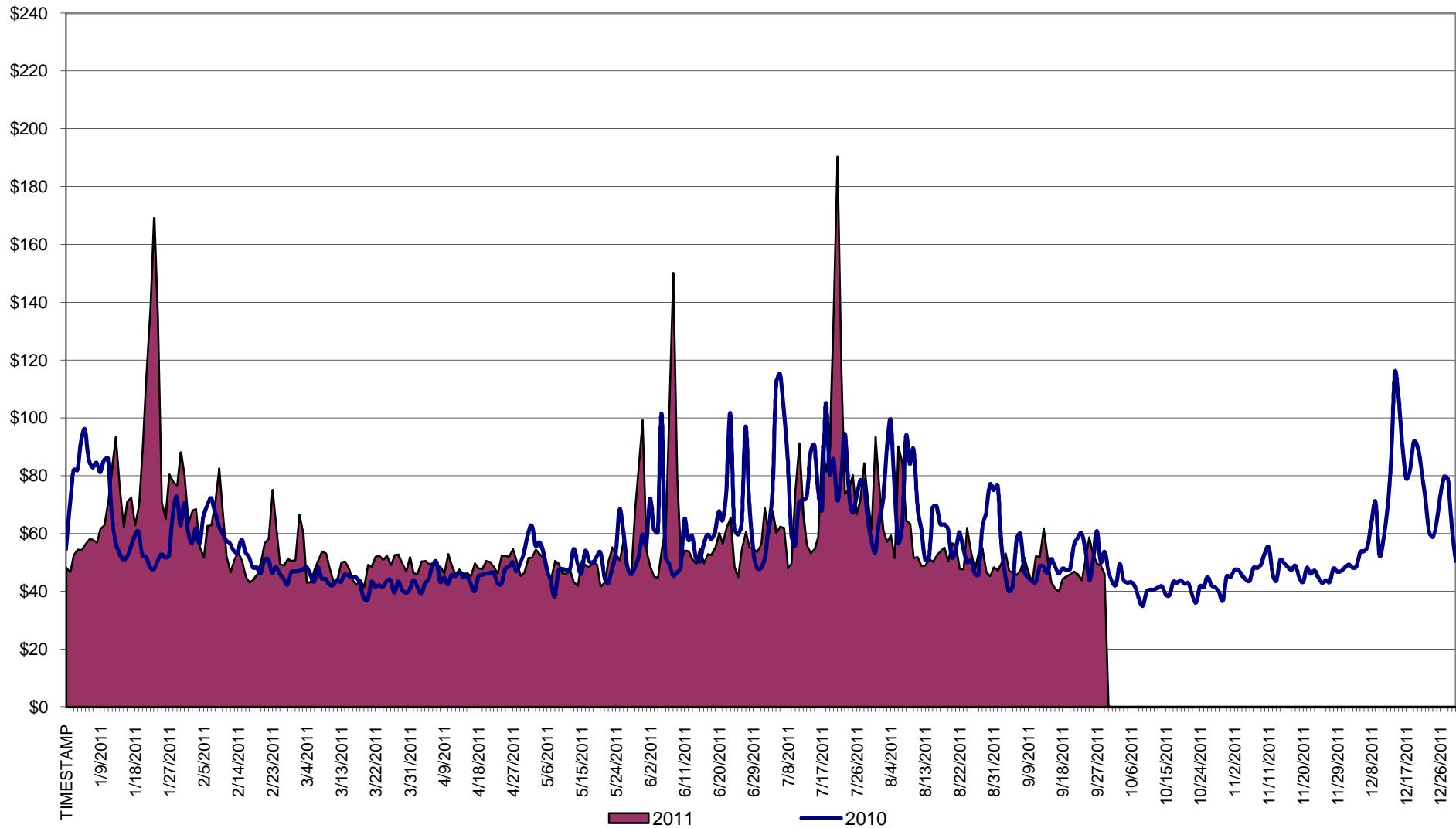
- **LBMP for September is \$46.86/MWh, down from \$56.04/MWh in August 2011.**
 - Day Ahead and Real Time Load Weighted LBMPs have decreased from August 2011.
- **Average monthly year-to-date cost of \$60.67/MWh, a decrease from the previous month, \$62.16/MWh.**
- **Average daily sendout is 456GWh/day in September; lower than 505GWh/day in August 2011 and higher than 451GWh/day in September 2010.**
- **Natural gas and distillates are lower than last month.**
 - Kerosene is \$22.77/MMBtu, down from \$23.10/MMBtu in August.
 - No. 2 Fuel Oil is \$20.98/MMBtu, down from \$21.04/MMBtu in August.
 - No. 6 Fuel Oil is \$17.77/MMBtu, comparable to \$17.78/MMBtu in August.
 - Natural Gas is \$4.14/MMBtu, down from \$4.34/MMBtu in August.
- **Uplift per MWh is lower compared to the previous month.**
 - Uplift (not including NYISO cost of operations) is \$0.03/MWh, lower than \$0.89/ MWh in August:
 - The TSA Share is \$0.00/MWh
 - The Local Reliability Share is \$0.01/MWh
 - The Other Share is \$0.02/MWh
 - Total uplift (Schedule 1 components including NYISO Cost of Operations) is lower compared to August.

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

2010 Annual Average \$58.94/MWh

September 2010YTD Average \$60.43/MWh

September 2011YTD Average \$60.67/MWh



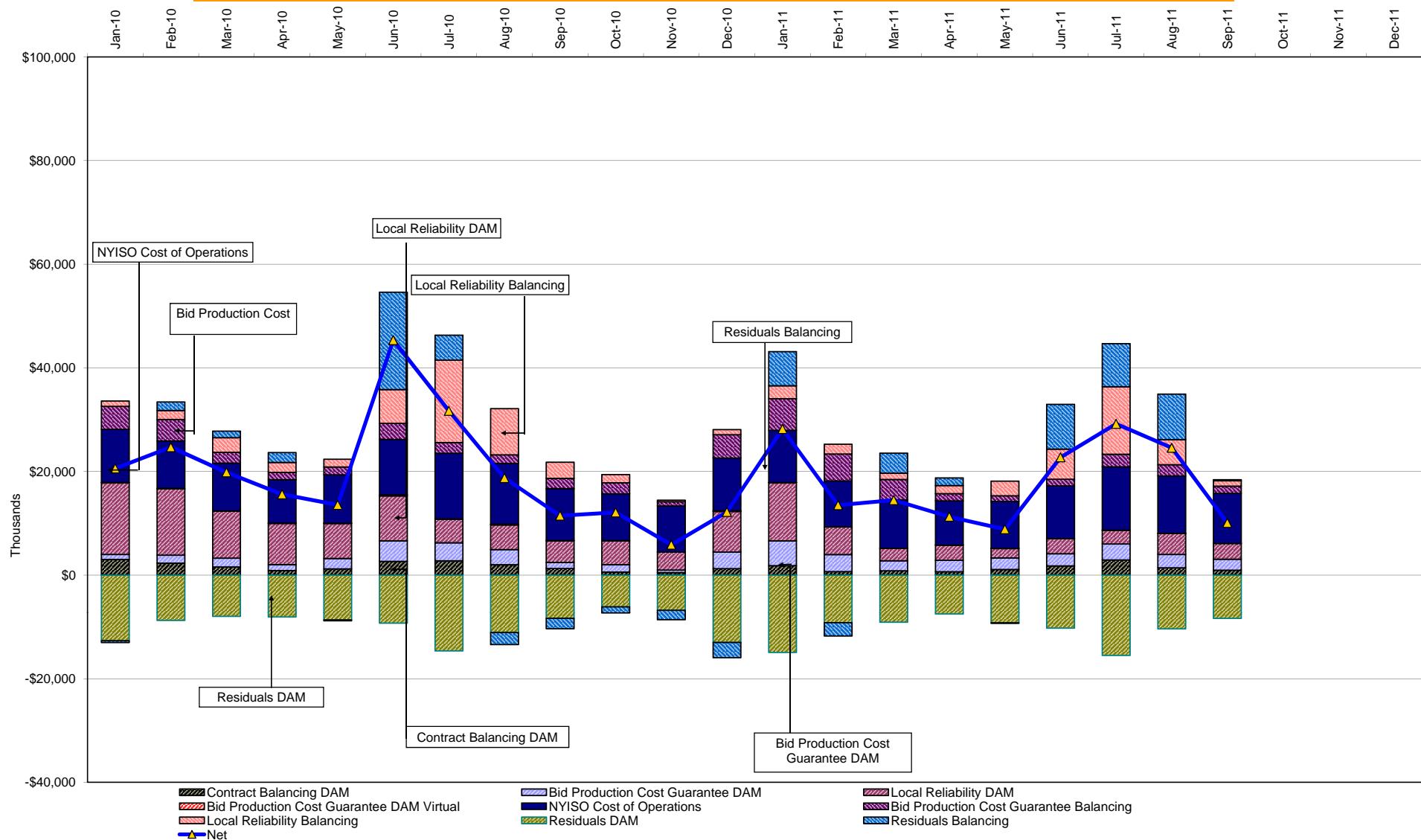
* Excludes ICAP payments.

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

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>
		74.91	55.60	46.90	46.44	48.91	60.32	75.75	56.04	46.86			
	LBMP	0.62	0.75	0.86	0.81	1.13	1.23	0.66	0.60	0.43			
	NTAC	0.44	0.50	0.41	0.43	0.47	0.28	0.28	0.13	0.25			
	Reserve	0.20	0.18	0.15	0.12	0.10	0.15	0.12	0.09	0.08			
	Regualtion	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70			
	NYISO Cost of Operations	1.27	0.37	0.38	0.23	-	1.06	1.01	0.89	0.03			
	Uplift	-	-	-	0.01	-	0.47	0.08	0.28	0.00			
	Uplift: TSA Share	0.62	0.20	0.10	0.09	-	0.28	0.54	0.32	0.01			
	Uplift: Local Reliability Share	0.65	0.17	0.29	0.13	-	0.31	0.39	0.29	0.02			
	Voltage Support and Black Start	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37			
	Avg Monthly Cost	78.52	58.48	49.78	49.10	51.68	63.98	78.87	58.83	48.71			
	Avg YTD Cost	78.52	68.73	62.25	59.07	57.55	58.79	62.76	62.16	60.67			
2010		<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	63.90	52.42	40.18	41.57	48.83	59.12	74.84	65.00	51.33	39.29	44.96	67.33
	NTAC	0.70	0.77	0.88	1.18	0.95	1.45	0.95	0.60	0.30	0.45	0.64	0.59
	Reserve	0.19	0.17	0.26	0.29	0.32	0.14	0.21	0.18	0.21	0.32	0.25	0.40
	Regulation	0.44	0.37	0.40	0.32	0.30	0.31	0.32	0.35	0.27	0.16	0.14	0.16
	NYISO Cost of Operations	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
	Uplift	0.73	1.21	0.81	0.62	0.32	2.36	1.09	0.43	0.12	0.24	(0.24)	0.13
	Uplift: TSA Share	-	-	-	-	0.03	0.69	0.30	0.02	0.04	0.00	-	-
	Uplift: Local Reliability Share	0.53	0.71	0.48	0.39	0.19	0.79	0.71	0.32	0.08	0.12	(0.15)	0.10
	Voltage Support and Black Start	0.20	0.50	0.33	0.23	0.10	0.88	0.08	0.09	0.01	0.12	(0.08)	0.04
	Avg Monthly Cost	67.11	56.09	43.70	45.13	51.87	64.55	78.57	67.70	53.38	41.61	46.90	69.77
	Avg YTD Cost	67.11	62.03	56.28	53.62	53.27	55.48	60.15	61.29	60.43	58.89	57.99	58.94

* Excludes ICAP payments.

NYISO Dollar Flows - Uplift- OATT Schedule 1 components - Data through September 30, 2011



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

2011	January	February	March	April	May	June	July	August	September	October	November	December
	Day Ahead Market MWh	14,047,703	12,514,435	13,164,026	12,191,562	12,809,240	14,520,490	17,296,367	15,872,137	14,052,940		
DAM LSE Internal LBMP Energy Sales	49%	54%	53%	55%	55%	57%	60%	62%	59%			
DAM External TC LBMP Energy Sales	1%	1%	2%	2%	1%	1%	2%	1%	1%			
DAM Bilateral - Internal Bilaterals	43%	43%	43%	41%	41%	39%	36%	35%	39%			
DAM Bilateral - Import/Non-LBMP Market Bilaterals	5%	0%	0%	0%	0%	0%	0%	0%	0%			
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	2%	2%	2%	1%	1%	1%	1%			
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	0%	1%	1%	1%	1%	1%			
Balancing Energy Market MWh	311,995	211,807	248,802	32,372	212,388	46,832	221,066	-34,581	-204,604			
Balancing Energy LSE Internal LBMP Energy Sales	28%	24%	38%	-262%	46%	-127%	29%	-350%	-147%			
Balancing Energy External TC LBMP Energy Sales	48%	50%	50%	219%	35%	256%	77%	301%	53%			
Balancing Energy Bilateral - Internal Bilaterals	15%	7%	8%	52%	12%	35%	0%	-1%	5%			
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	14%	13%	92%	9%	30%	6%	36%	8%			
Balancing Energy Bilateral - Wheel Through Bilaterals	3%	5%	-10%	-2%	-2%	-94%	-12%	-87%	-18%			
Transactions Summary												
LBMP	51%	55%	55%	57%	57%	59%	63%	63%	59%			
Internal Bilaterals	42%	42%	42%	41%	41%	39%	36%	36%	39%			
Import Bilaterals	4%	0%	0%	0%	0%	0%	0%	0%	0%			
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%			
Wheels Through	1%	1%	1%	0%	1%	1%	1%	1%	0%			
Market Share of Total Load												
Day Ahead Market	97.8%	98.3%	98.1%	99.7%	98.4%	99.7%	98.7%	100.2%	101.5%			
Balancing Energy +	2.2%	1.7%	1.9%	0.3%	1.6%	0.3%	1.3%	-0.2%	-1.5%			
Total MWH	14,359,698	12,726,241	13,412,827	12,223,934	13,021,628	14,567,323	17,517,432	15,837,556	13,848,336			
Average Daily Energy Sendout/Month GWh	457	447	422	398	411	479	555	505	456			
2010	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWh	14,034,781	12,593,305	12,922,930	11,769,468	12,795,110	14,263,543	16,608,041	15,536,711	13,386,982	12,377,928	12,151,670	13,790,802
DAM LSE Internal LBMP Energy Sales	49%	46%	47%	53%	47%	49%	53%	51%	47%	43%	45%	46%
DAM External TC LBMP Energy Sales	2%	3%	1%	1%	1%	2%	3%	2%	3%	4%	2%	2%
DAM Bilateral - Internal Bilaterals	41%	43%	43%	39%	44%	42%	38%	40%	43%	45%	46%	45%
DAM Bilateral - Import/Non-LBMP Market Bilaterals	6%	5%	5%	4%	5%	5%	4%	4%	5%	6%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	2%	2%	1%	1%	1%	1%	2%	2%	1%
DAM Bilateral - Wheel Through Bilaterals	2%	1%	1%	1%	1%	1%	1%	1%	1%	0%	0%	1%
Balancing Energy Market MWh	377,241	287,393	29,273	-358	341,917	735,317	1,162,369	899,856	698,095	300,393	393,673	527,915
Balancing Energy LSE Internal LBMP Energy Sales	40%	54%	-280%	-25177%	61%	87%	94%	75%	76%	74%	57%	55%
Balancing Energy External TC LBMP Energy Sales	56%	49%	429%	30394%	44%	11%	9%	26%	23%	25%	30%	32%
Balancing Energy Bilateral - Internal Bilaterals	10%	7%	137%	12155%	7%	10%	3%	4%	4%	5%	5%	10%
Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals	0%	0%	2%	63%	1%	0%	0%	0%	1%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	7%	8%	84%	6409%	6%	3%	1%	2%	3%	8%	7%	3%
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%	-18%	-272%	-23944%	-19%	-10%	-7%	-7%	-6%	-12%	0%	-1%
Transactions Summary												
LBMP	52%	50%	49%	54%	50%	54%	59%	56%	53%	48%	48%	49%
Internal Bilaterals	40%	43%	43%	39%	43%	40%	36%	38%	41%	44%	45%	43%
Import Bilaterals	5%	5%	5%	4%	5%	5%	4%	4%	5%	6%	5%	5%
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	2%
Wheels Through	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
Market Share of Total Load												
Day Ahead Market	97.4%	97.8%	99.8%	100.0%	97.4%	95.1%	93.5%	94.5%	95.0%	97.6%	96.9%	96.3%
Balancing Energy +	2.6%	2.2%	0.2%	0.0%	2.6%	4.9%	6.5%	5.5%	5.0%	2.4%	3.1%	3.7%
Total MWH	14,412,023	12,880,698	12,952,203	11,769,109	13,137,026	14,998,860	17,770,410	16,436,568	14,085,076	12,678,320	12,545,343	14,318,718
Average Daily Energy Sendout/Month GWh	451	444	410	387	415	491	558	514	451	393	405	453

* 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 2011 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 *	\$69.03	\$52.87	\$45.20	\$44.80	\$45.20	\$52.26	\$64.60	\$49.59	\$43.28			
Standard Deviation	\$30.78	\$14.77	\$9.06	\$8.22	\$11.77	\$26.24	\$34.99	\$16.62	\$10.26			
Load Weighted Price **	\$71.22	\$54.24	\$46.13	\$45.77	\$46.83	\$55.58	\$69.28	\$51.90	\$44.76			
<u>RTC LBMP</u>												
Price *	\$64.48	\$50.15	\$45.13	\$44.32	\$43.69	\$50.47	\$63.42	\$48.47	\$46.02			
Standard Deviation	\$39.41	\$18.83	\$18.96	\$15.44	\$25.19	\$46.41	\$82.29	\$59.95	\$25.18			
Load Weighted Price **	\$66.15	\$51.15	\$45.98	\$45.25	\$45.41	\$53.91	\$68.58	\$51.12	\$47.80			
<u>REAL TIME LBMP</u>												
Price *	\$67.92	\$50.26	\$44.22	\$45.20	\$44.26	\$48.68	\$62.96	\$49.39	\$45.92			
Standard Deviation	\$58.47	\$22.39	\$17.41	\$19.98	\$26.27	\$44.88	\$64.83	\$62.04	\$26.88			
Load Weighted Price **	\$70.32	\$51.61	\$45.24	\$46.28	\$46.66	\$53.42	\$69.66	\$54.28	\$48.40			
Average Daily Energy Sendout/Month GWh	457	447	422	398	411	479	555	505	456			

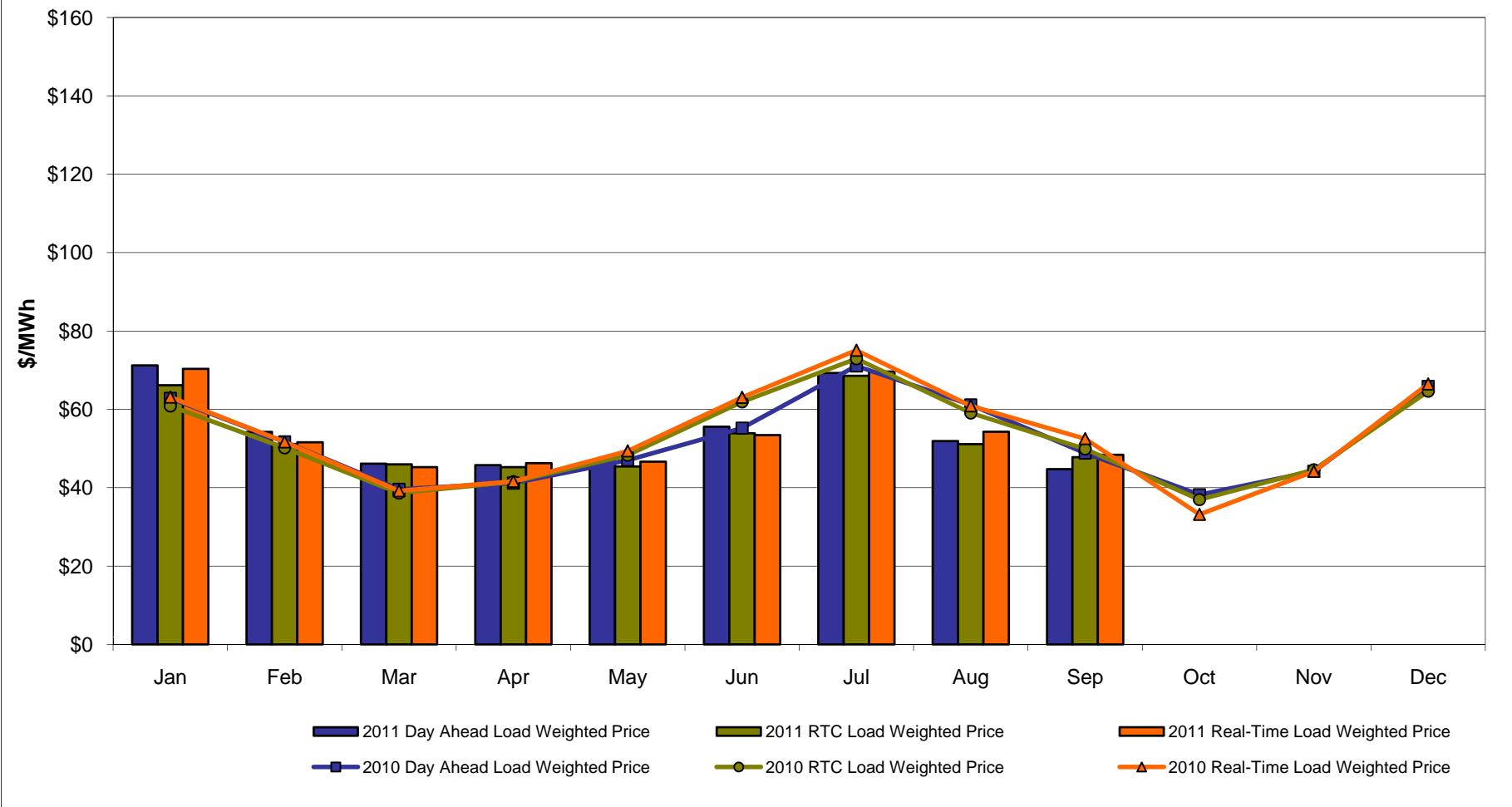
NYISO Markets 2010 Energy Statistics

	<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 *	\$60.96	\$50.47	\$38.69	\$40.13	\$45.29	\$52.71	\$66.67	\$57.80	\$46.64	\$37.10	\$43.31	\$63.69
Standard Deviation	\$20.86	\$13.07	\$7.78	\$8.09	\$11.45	\$16.14	\$28.01	\$21.60	\$13.36	\$8.27	\$7.59	\$22.45
Load Weighted Price **	\$62.80	\$51.71	\$39.60	\$41.18	\$47.04	\$55.22	\$71.08	\$61.16	\$48.85	\$38.21	\$44.20	\$65.87
<u>RTC LBMP</u>												
Price *	\$59.32	\$49.38	\$37.94	\$40.58	\$46.70	\$58.69	\$68.36	\$55.78	\$47.79	\$35.78	\$43.67	\$62.82
Standard Deviation	\$33.92	\$24.97	\$14.48	\$13.84	\$21.47	\$58.47	\$51.68	\$48.01	\$21.55	\$21.49	\$17.26	\$35.62
Load Weighted Price **	\$60.85	\$50.16	\$38.64	\$41.54	\$48.31	\$61.91	\$72.92	\$59.07	\$49.88	\$36.95	\$44.59	\$64.61
<u>REAL TIME LBMP</u>												
Price *	\$60.40	\$50.45	\$38.09	\$40.49	\$47.17	\$58.49	\$69.42	\$56.28	\$49.38	\$34.57	\$43.04	\$64.06
Standard Deviation	\$42.06	\$30.38	\$19.24	\$17.00	\$28.15	\$56.05	\$56.60	\$41.46	\$32.03	\$27.89	\$16.63	\$44.71
Load Weighted Price **	\$63.13	\$51.69	\$39.19	\$41.62	\$49.38	\$63.06	\$75.08	\$60.89	\$52.51	\$36.23	\$44.16	\$66.48
Average Daily Energy Sendout/Month GWh	451	444	410	387	415	491	558	514	451	393	405	453

* Average zonal load weighted prices.

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

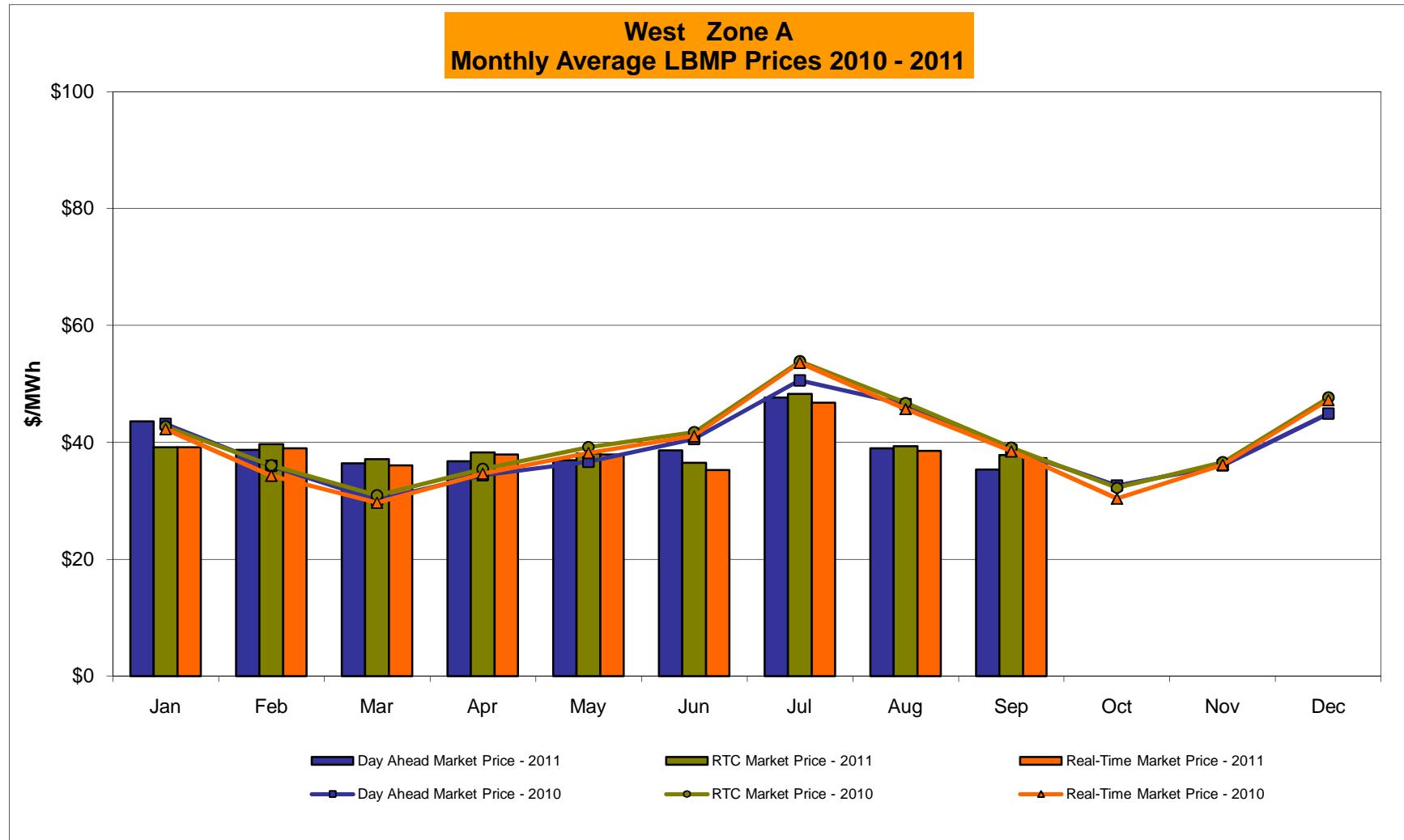
NYISO Monthly Average Internal LBMPs
2010 - 2011



September 2011 Zonal LBMP Statistics for NYISO (\$/MWh)

	WEST <u>Zone A</u>	GENESEE <u>Zone B</u>	NORTH <u>Zone D</u>	CENTRAL <u>Zone C</u>	MOHAWK VALLEY <u>Zone E</u>	CAPITAL <u>Zone F</u>	HUDSON VALLEY <u>Zone G</u>	MILLWOOD <u>Zone H</u>	DUNWOODIE <u>Zone I</u>	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	35.38	36.55	36.52	37.51	38.86	39.13	44.01	44.23	44.31	45.90	52.35
Standard Deviation	5.39	5.96	5.59	6.26	6.75	6.95	11.06	11.59	11.67	12.50	17.52
RTC LBMP											
Unweighted Price *	37.80	38.80	38.57	40.03	41.07	41.01	47.15	47.58	47.69	48.87	55.16
Standard Deviation	20.87	21.96	21.72	23.17	22.97	23.02	29.46	31.84	32.17	31.67	42.73
REAL TIME LBMP											
Unweighted Price *	37.25	38.20	37.86	39.37	40.42	40.43	46.71	47.16	47.27	48.69	56.23
Standard Deviation	17.97	18.86	18.57	19.85	20.36	22.03	30.17	31.75	31.99	31.96	44.10
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	Dennison	
	<u>Zone O</u>	<u>Zone M</u>	<u>Zone M</u>	<u>Zone P</u>	<u>Zone N</u>	<u>Controllable</u> <u>Line</u>	<u>Controllable</u> <u>Line</u>	<u>Controllable</u> <u>Line</u>	<u>Controllable</u> <u>Line</u>	<u>Controllable</u> <u>Line</u>	
DAY AHEAD LBMP											
Unweighted Price *	34.63	36.34	35.70	39.96	40.67	50.57	49.05	49.65	43.45	36.13	
Standard Deviation	5.00	5.38	4.54	9.02	7.99	17.66	15.66	17.66	10.55	5.33	
RTC LBMP											
Unweighted Price *	35.19	36.71	36.69	40.85	40.54	50.49	49.83	50.25	43.40	36.64	
Standard Deviation	7.90	8.57	8.56	12.25	10.06	36.25	36.01	36.19	15.50	8.20	
REAL TIME LBMP											
Unweighted Price *	36.19	37.32	37.20	41.05	42.32	54.06	51.10	53.68	46.72	37.46	
Standard Deviation	17.16	18.28	17.78	24.60	23.32	43.26	41.58	42.90	32.07	18.18	

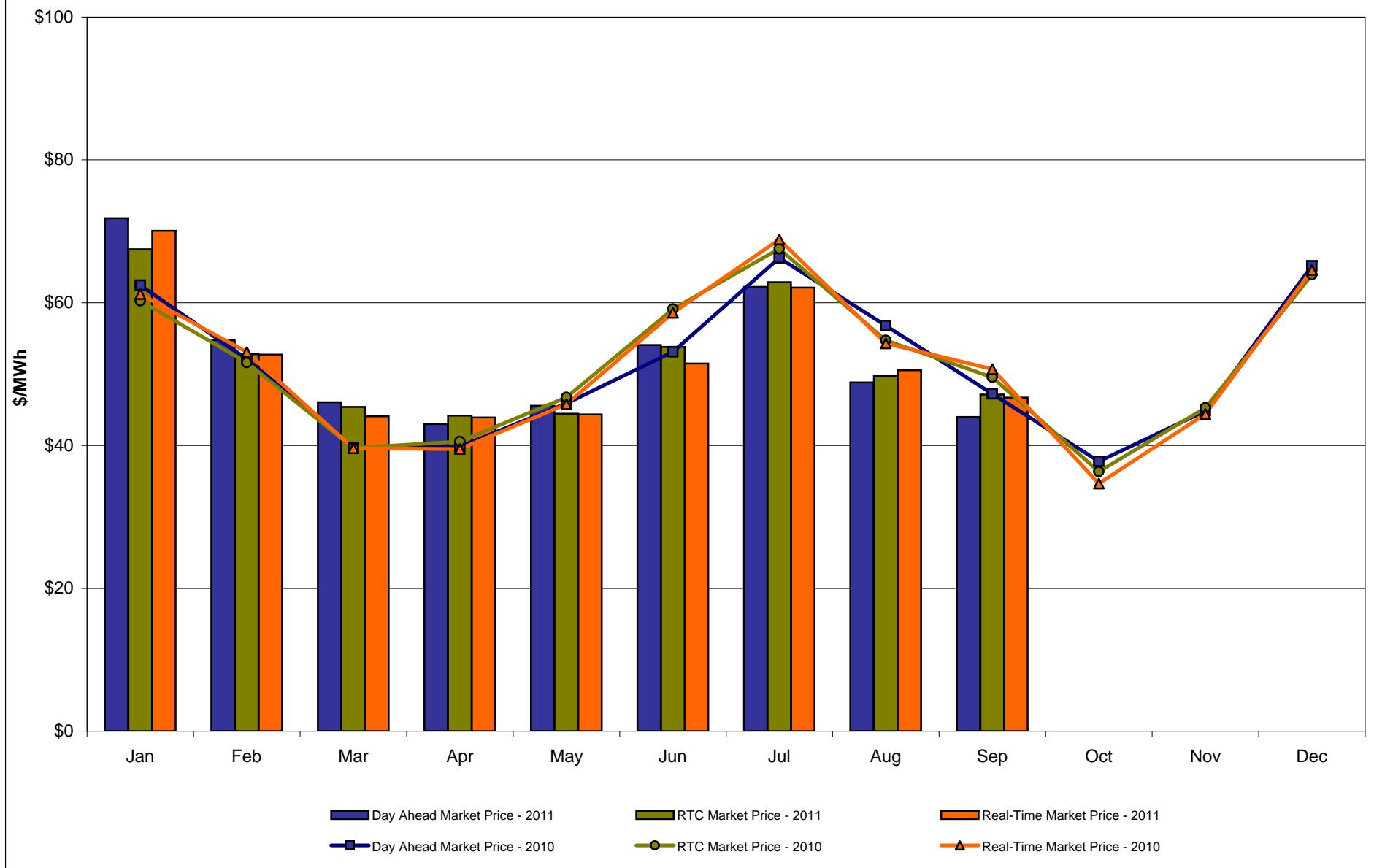
* Straight LBMP averages



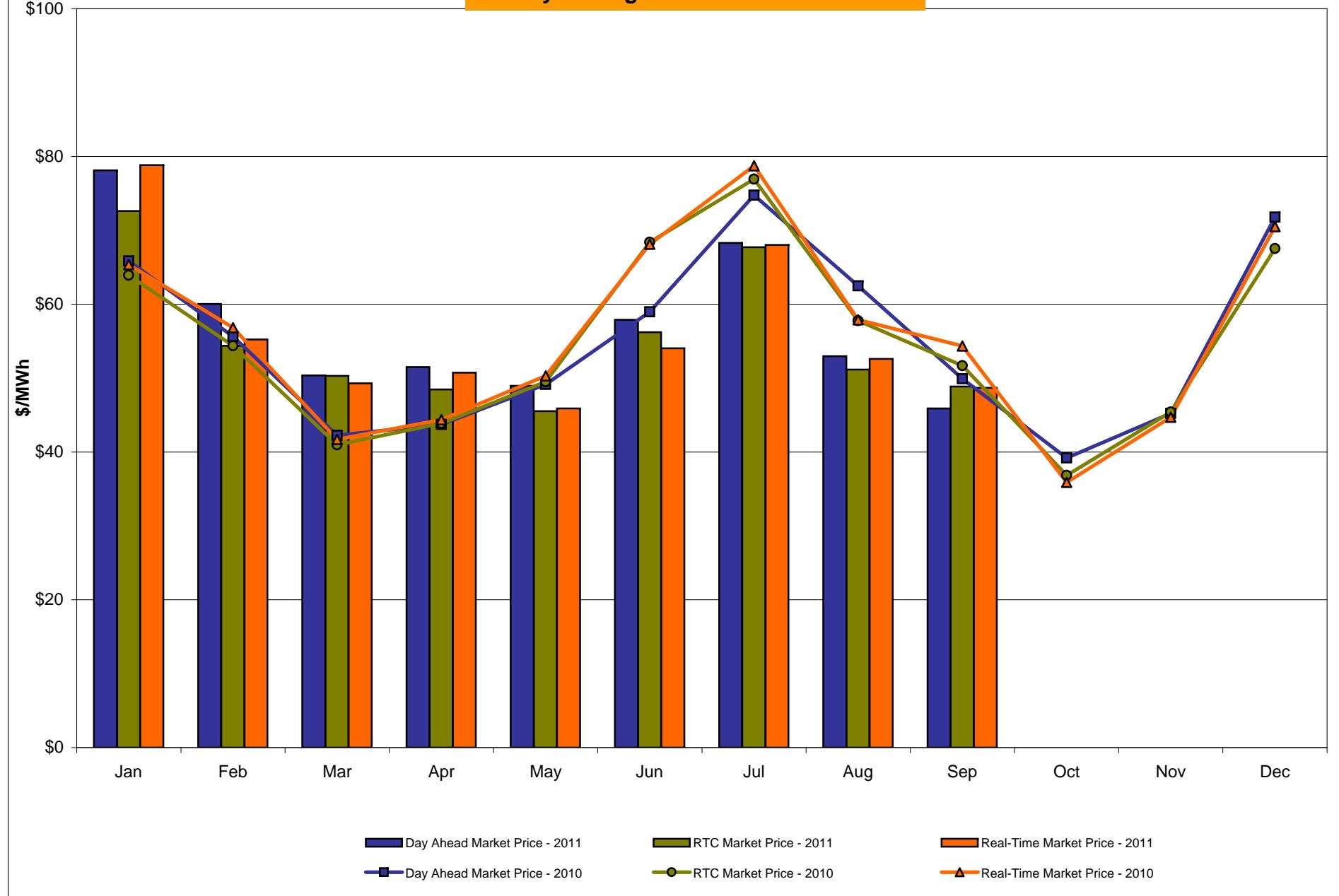
Capital Zone F
Monthly Average LBMP Prices 2010 - 2011



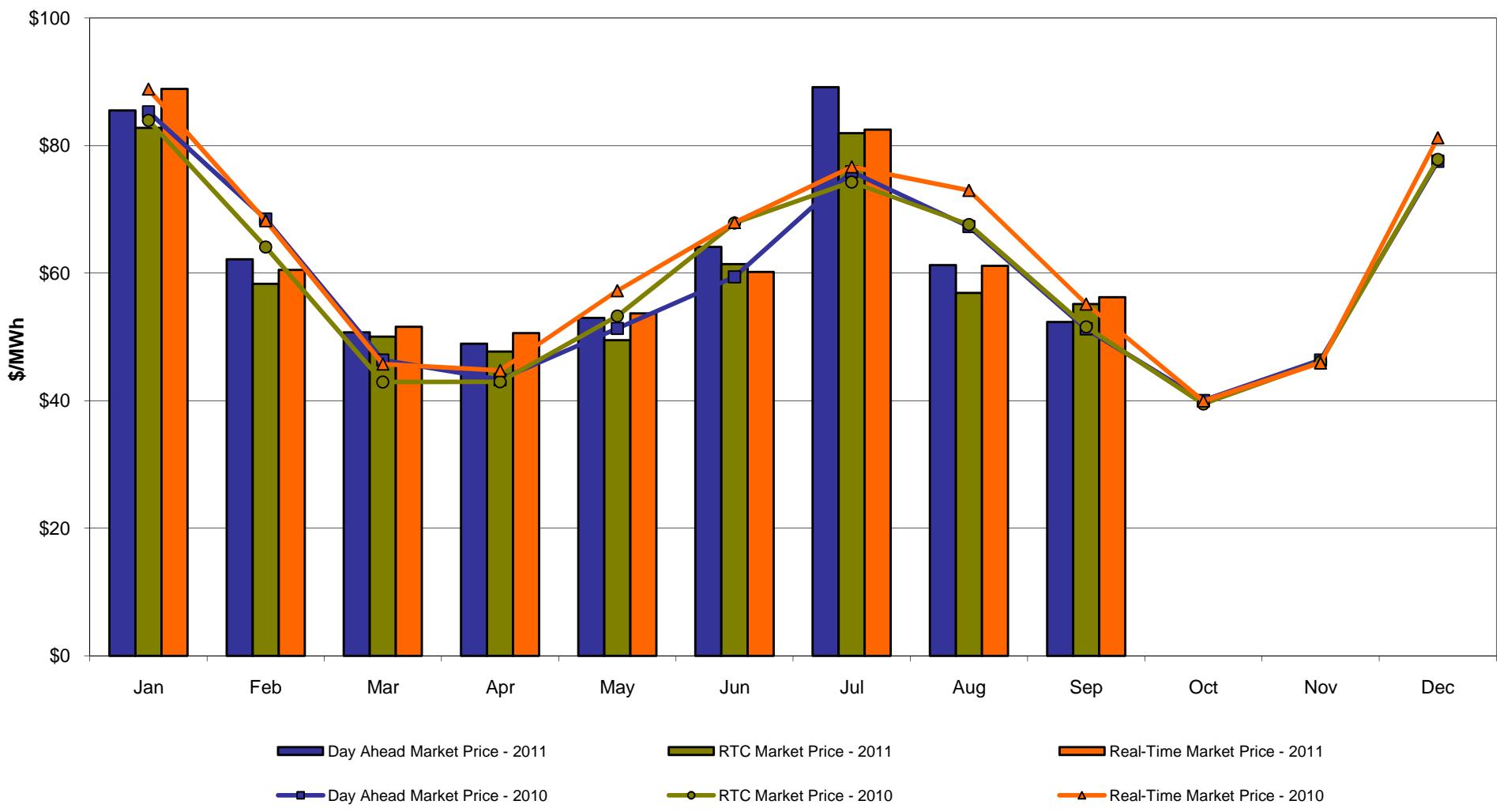
Hudson Valley Zone G
Monthly Average LBMP Prices 2010 - 2011



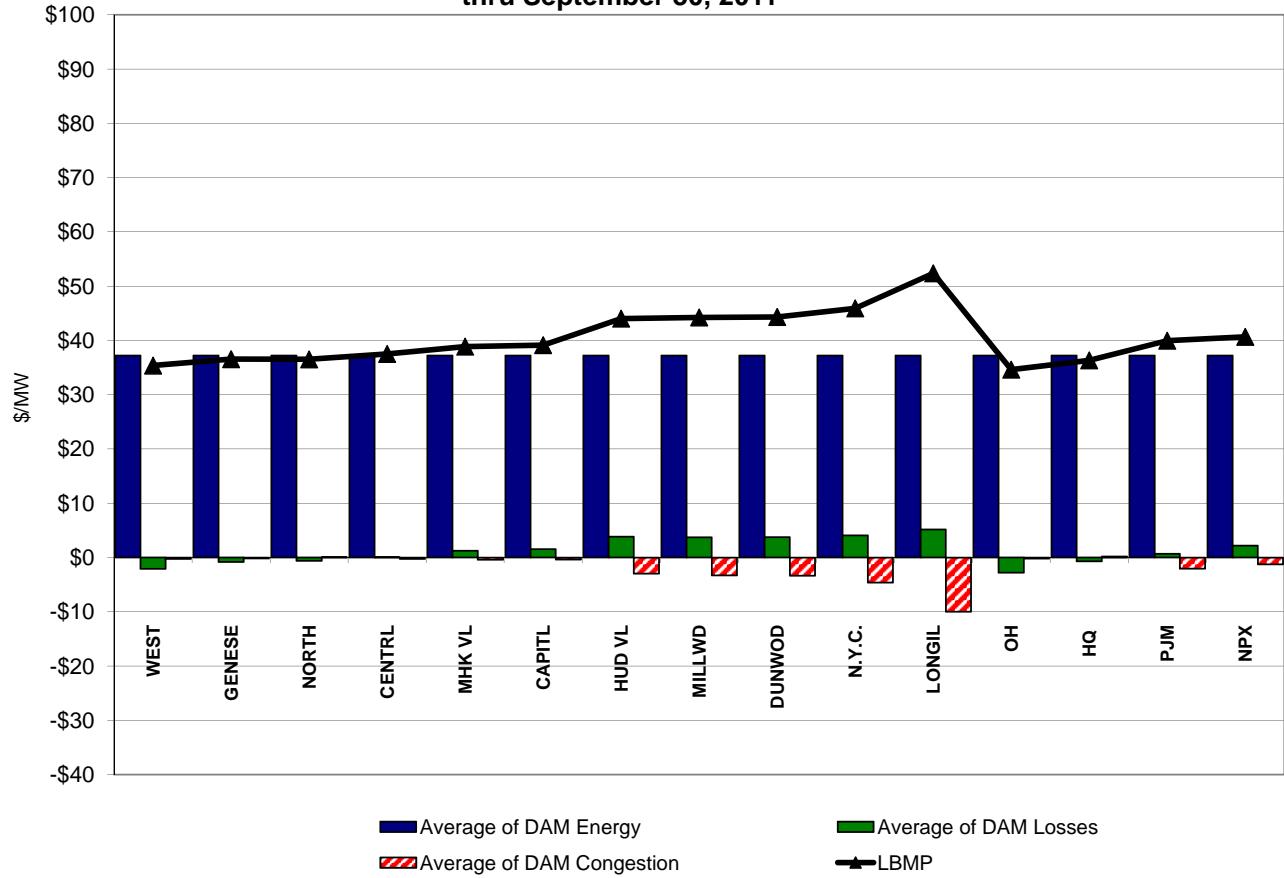
NYC Zone J
Monthly Average LBMP Prices 2010 - 2011



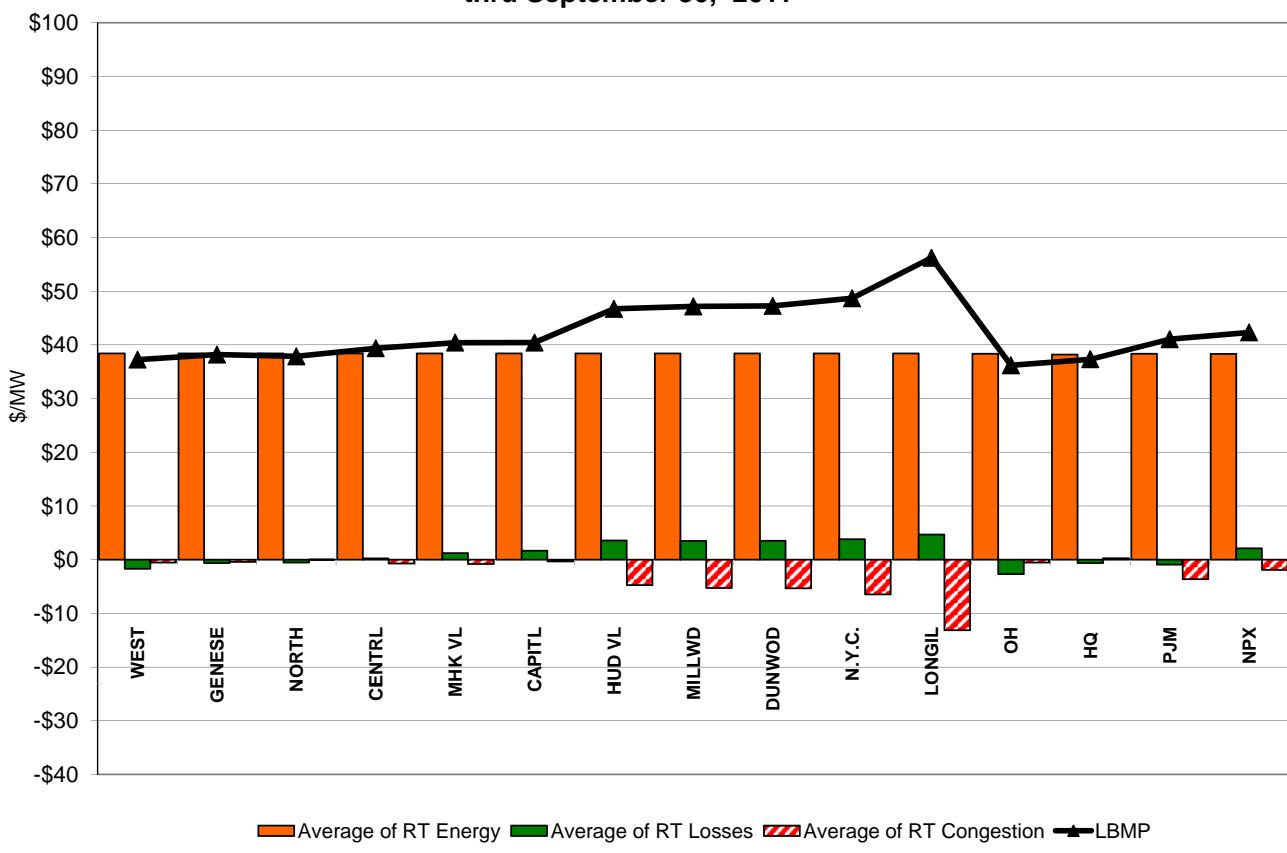
Long Island Zone K
Monthly Average LBMP Prices 2010 - 2011



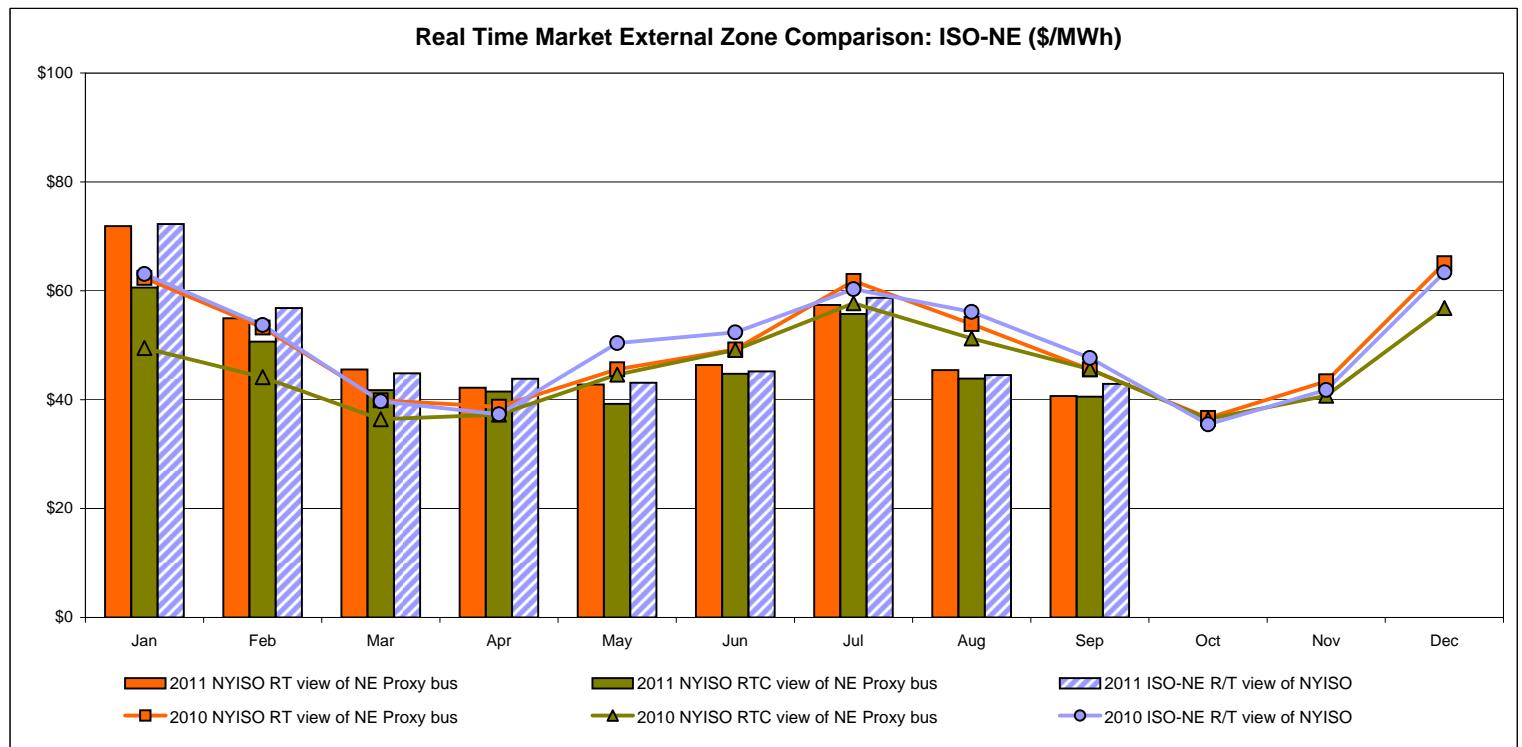
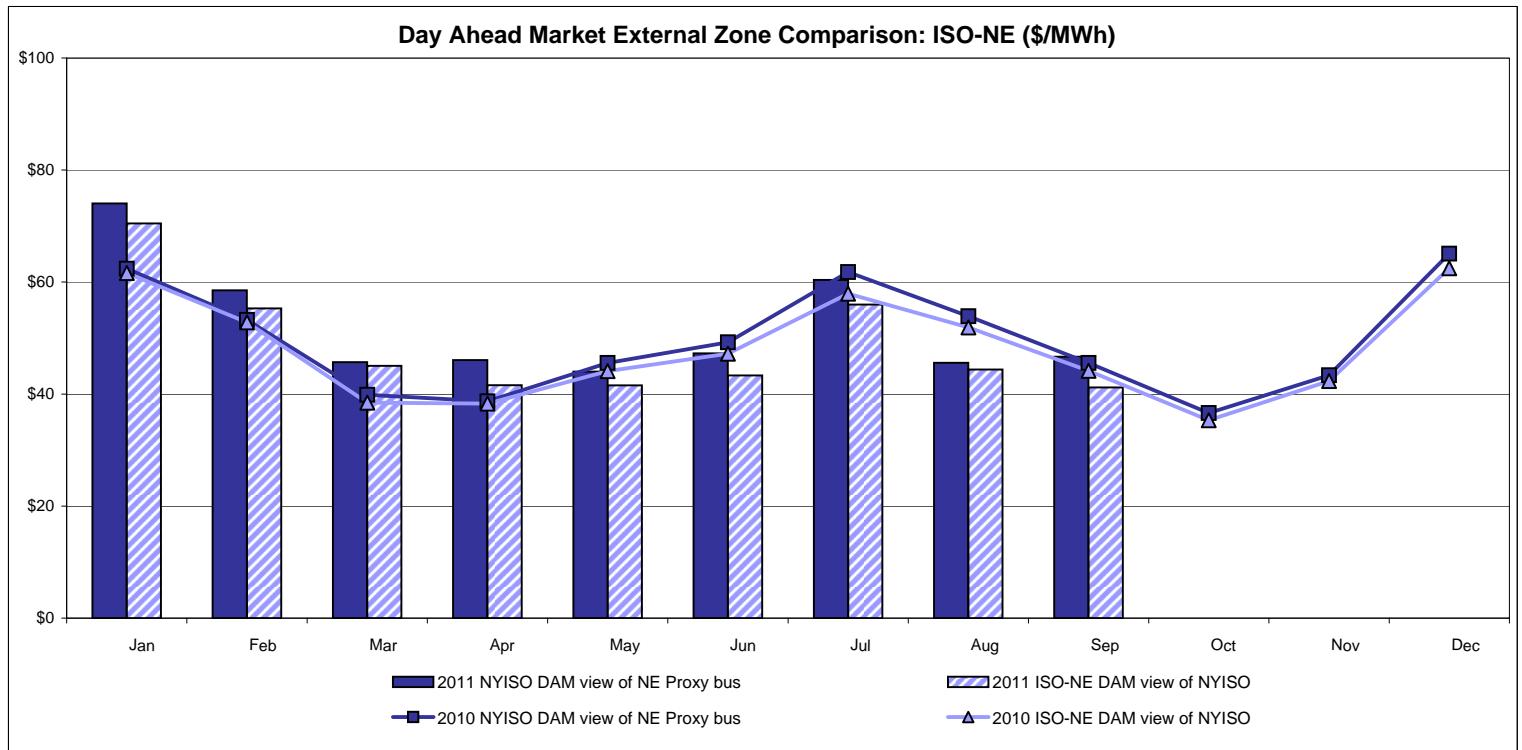
**DAM Zonal Unweighted Monthly Average LBMP Components
thru September 30, 2011**



**RT Zonal Unweighted Monthly Average LBMP Components
thru September 30, 2011**

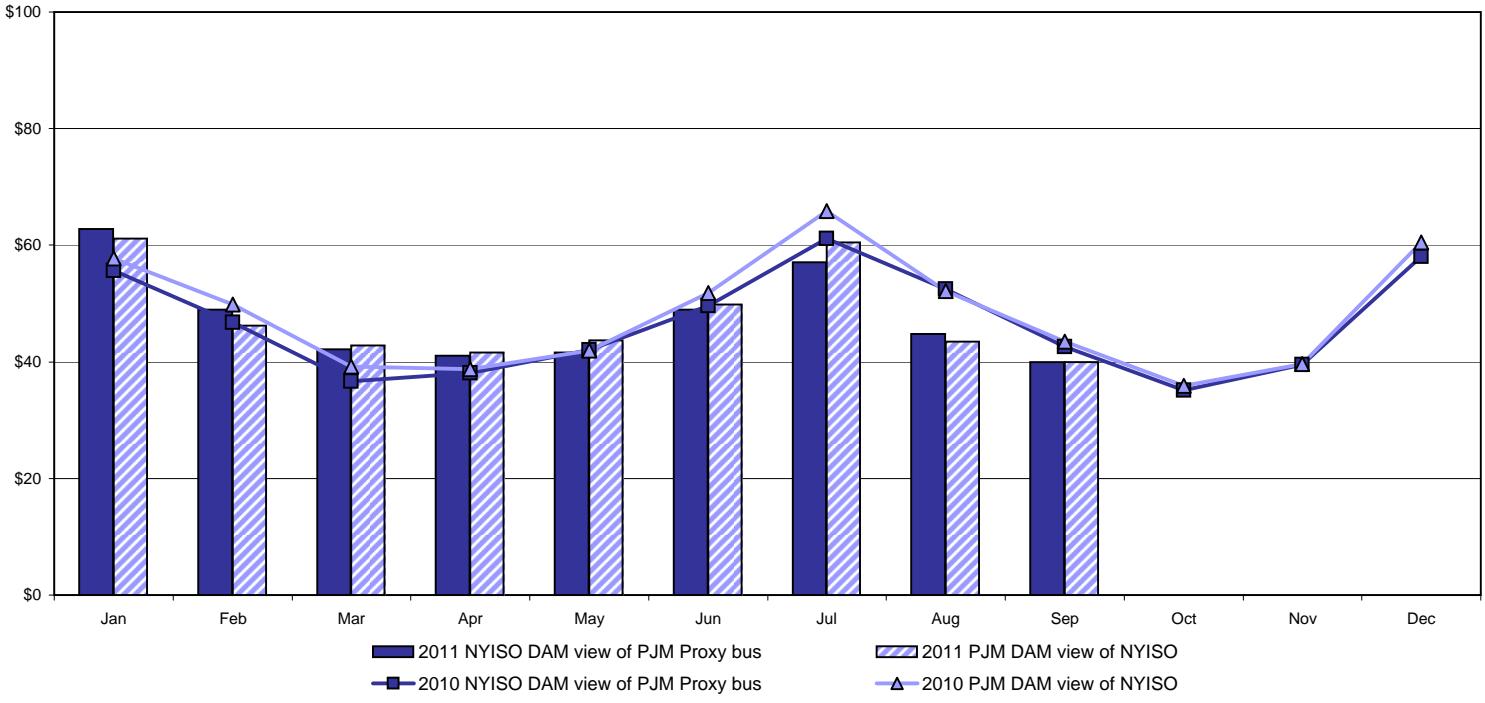


External Comparison ISO-New England

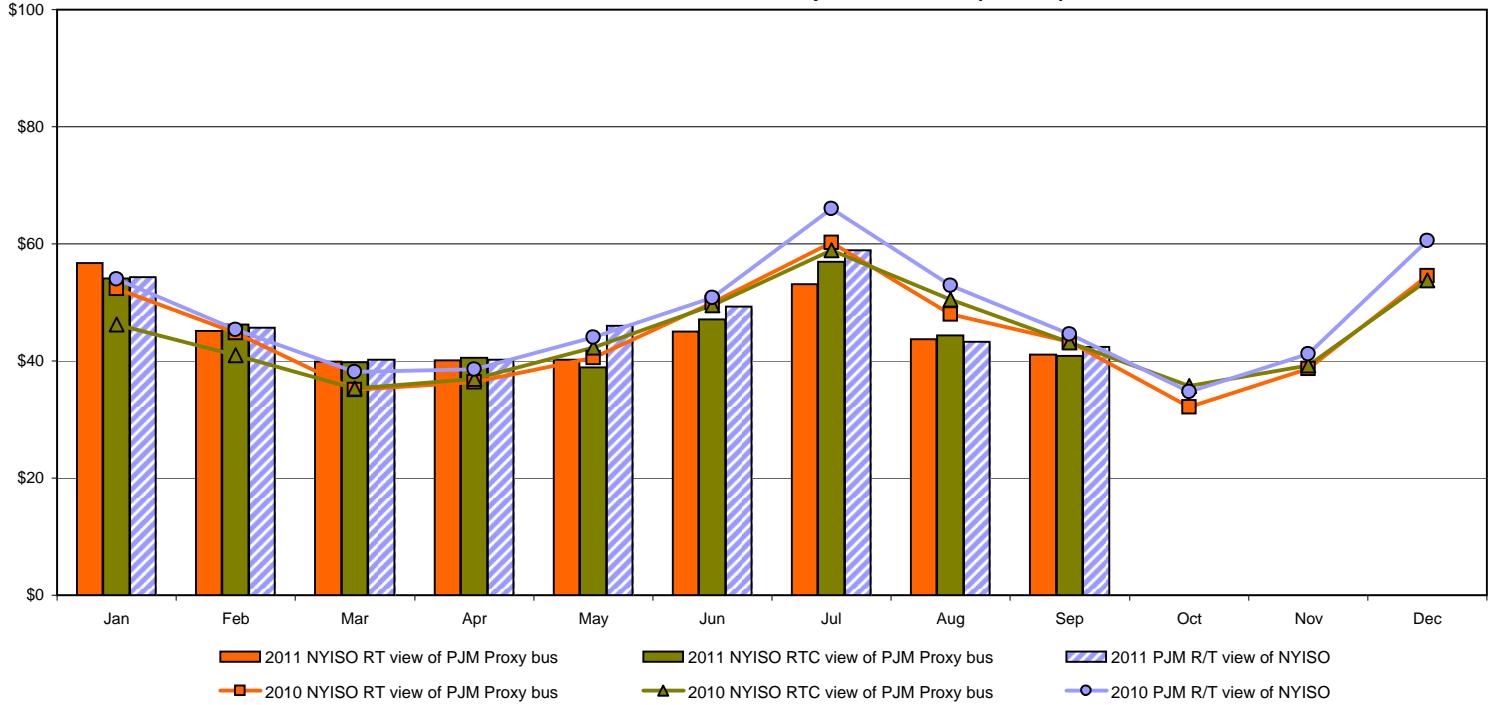


External Comparison PJM

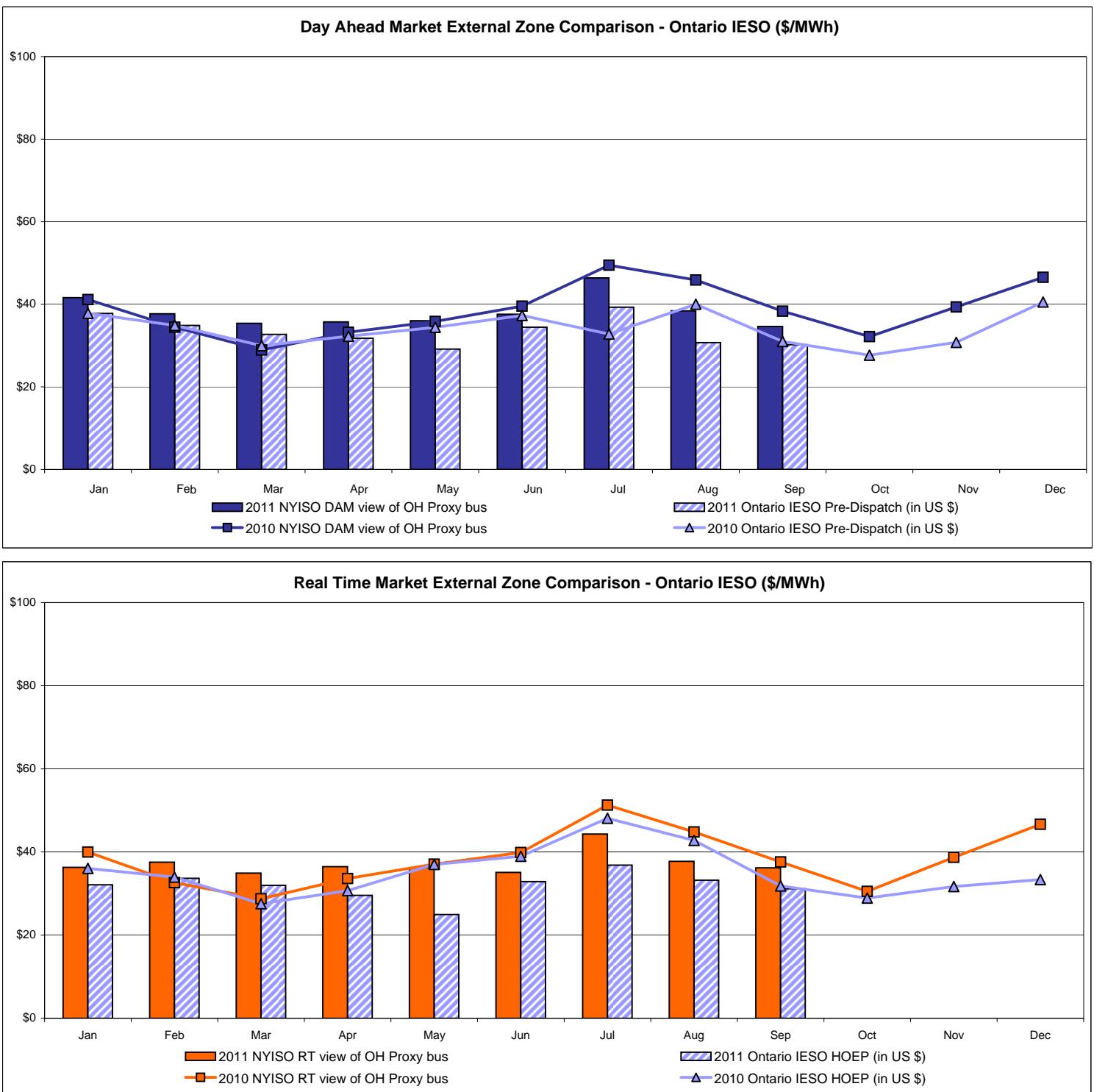
Day Ahead Market External Zone Comparison - PJM (\$/MWh)



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



External Comparison Ontario IESO

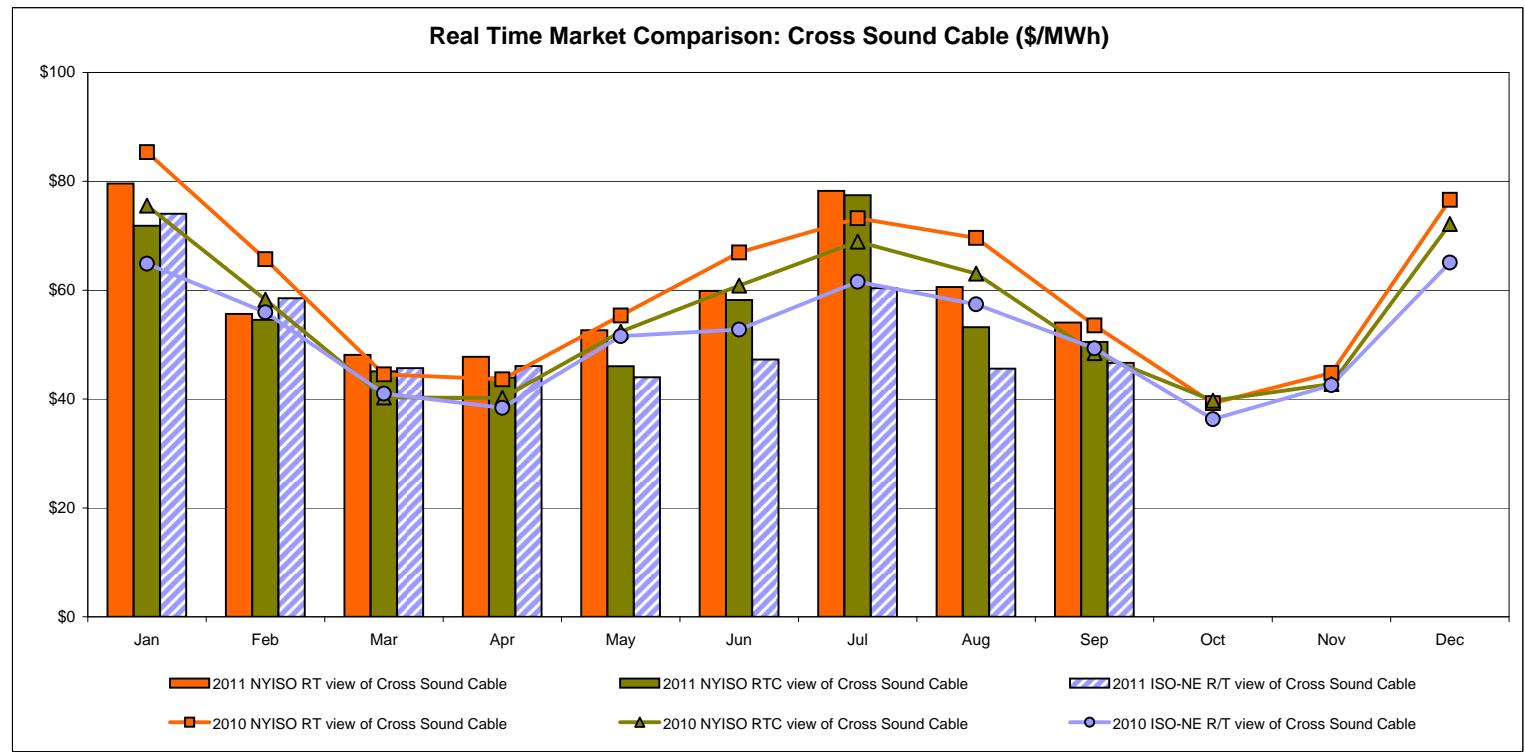
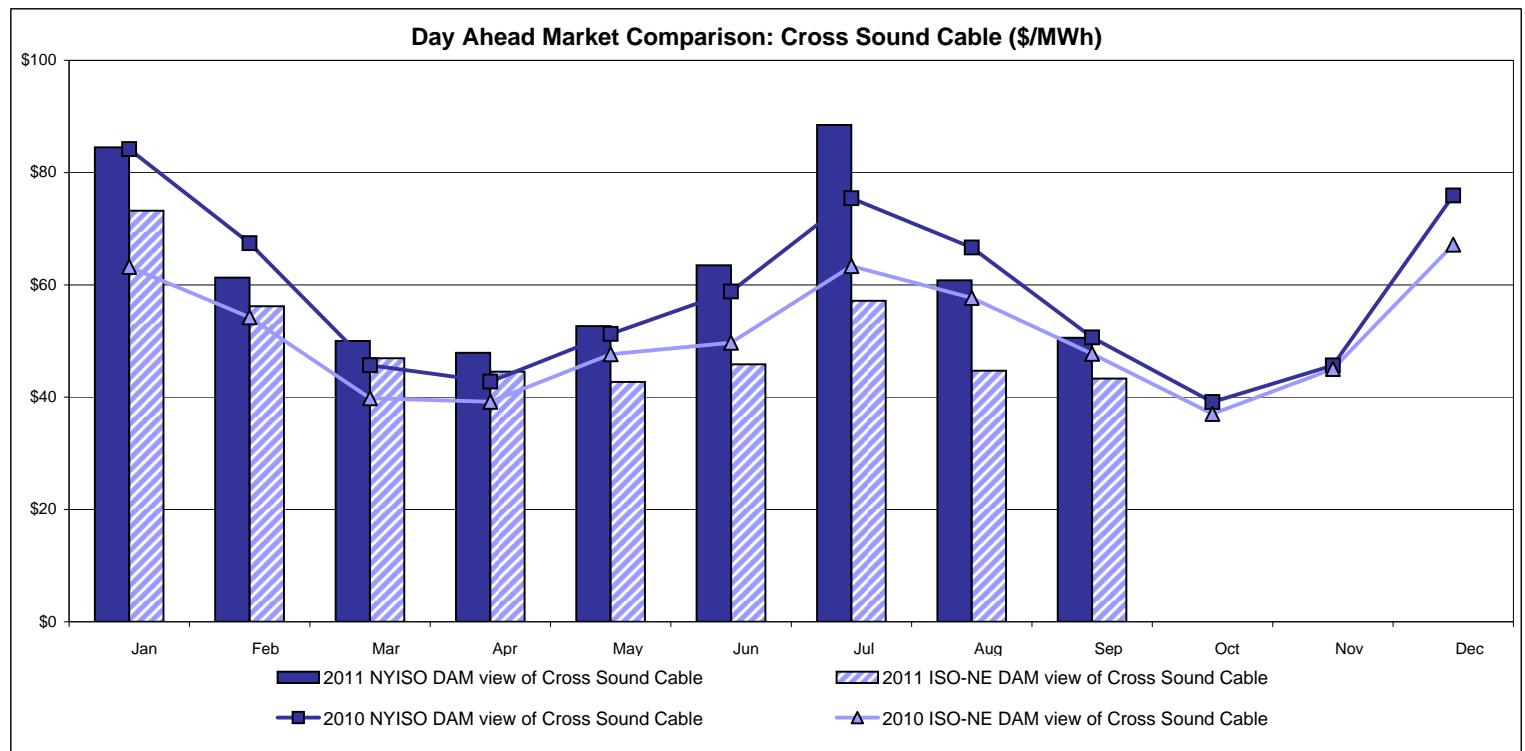


Notes: Exchange factor used for September 2011 was 0.99 to US \$

HOEP: Hourly Ontario Energy Price

Pre-Dispatch: Projected Energy Price

External Controllable Line: Cross Sound Cable (New England)



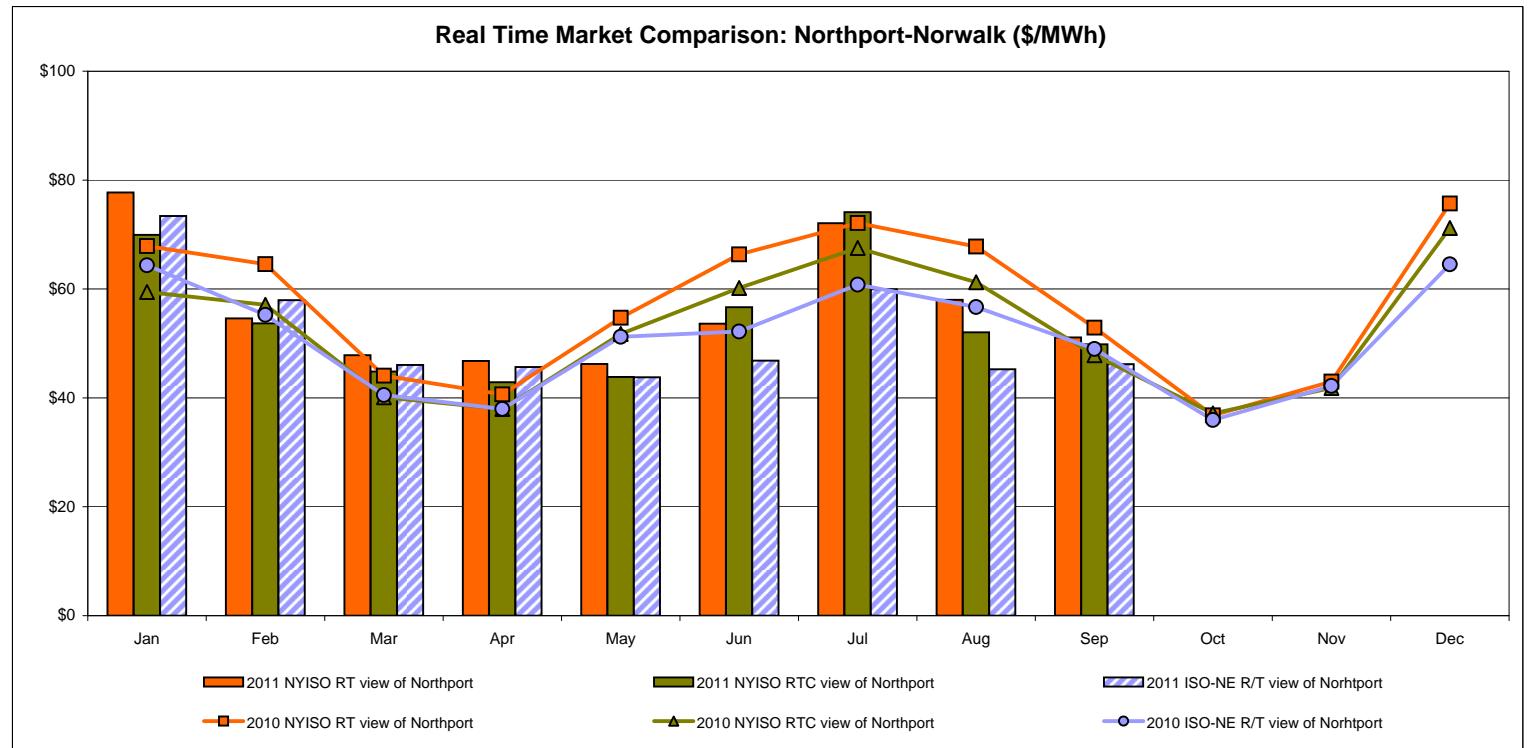
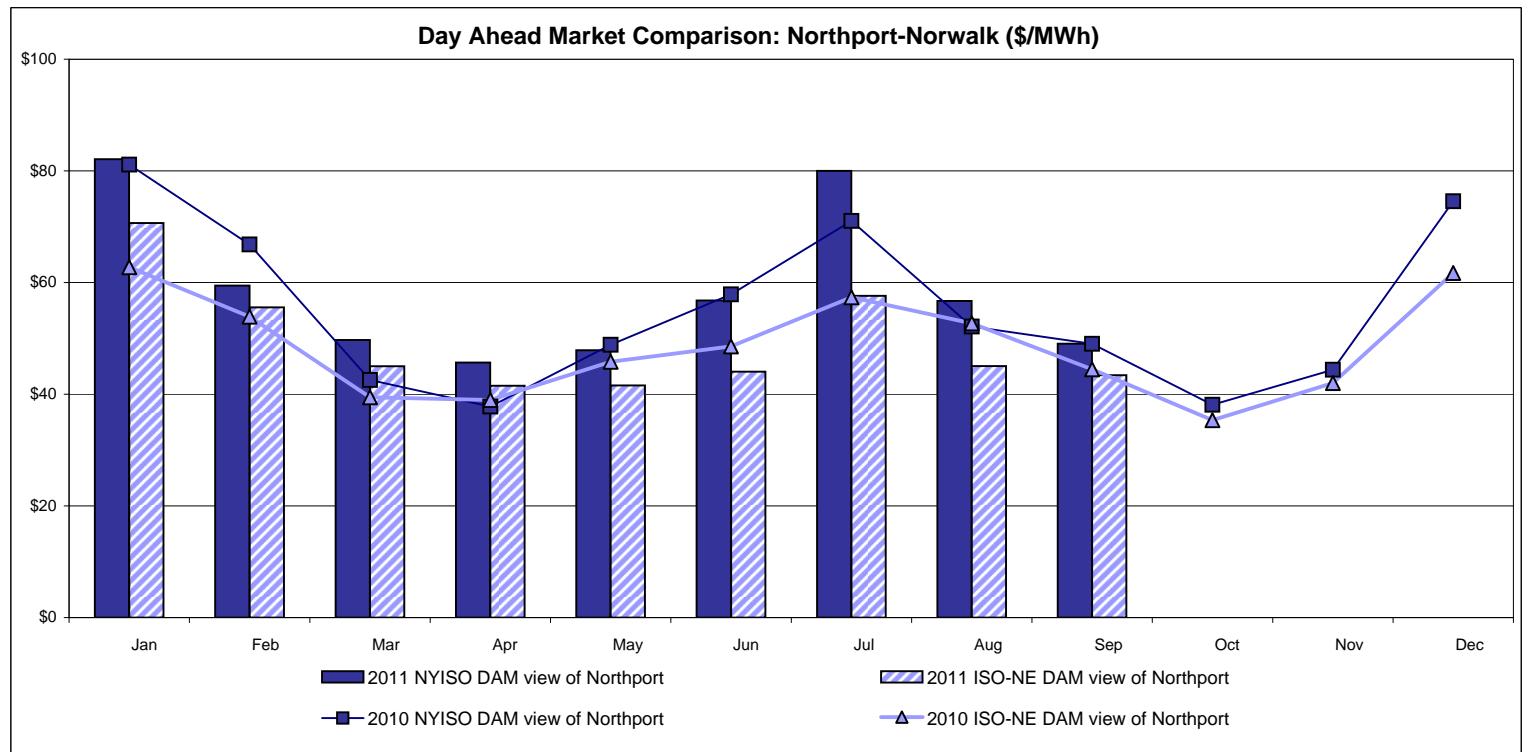
Note:

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

The DAM and R/T prices at the Shorham138 99 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:

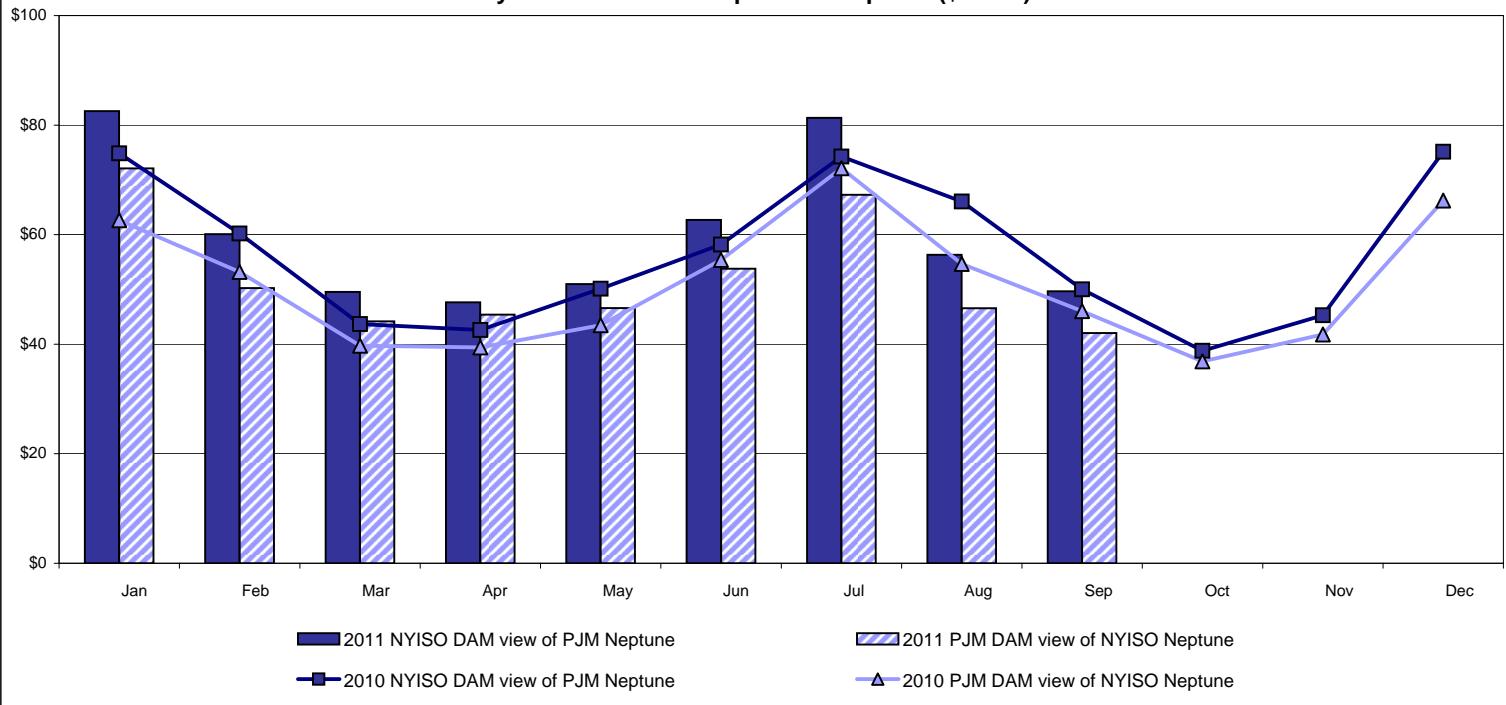
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

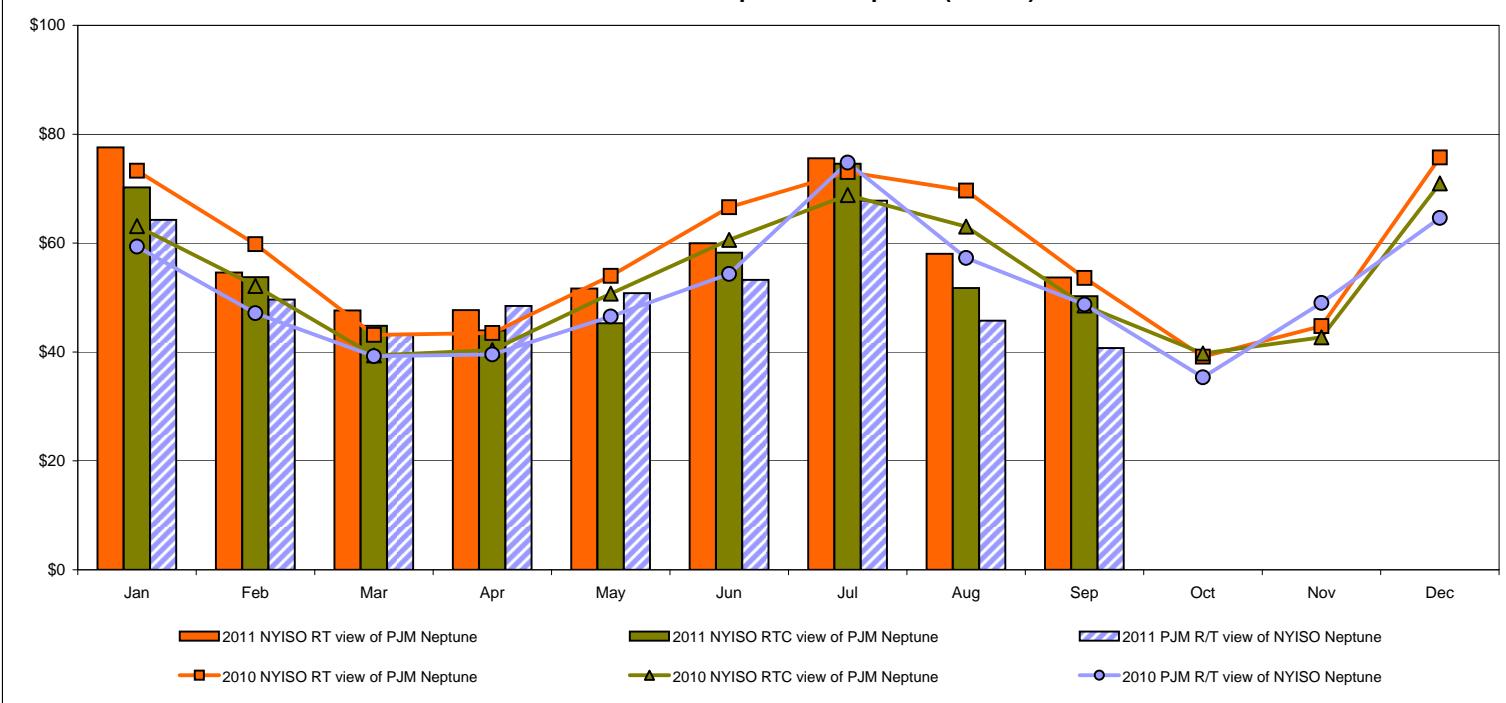
The DAM and R/T prices at the 1385 interface are used for NYISO.

External Controllable Line: Neptune (PJM)

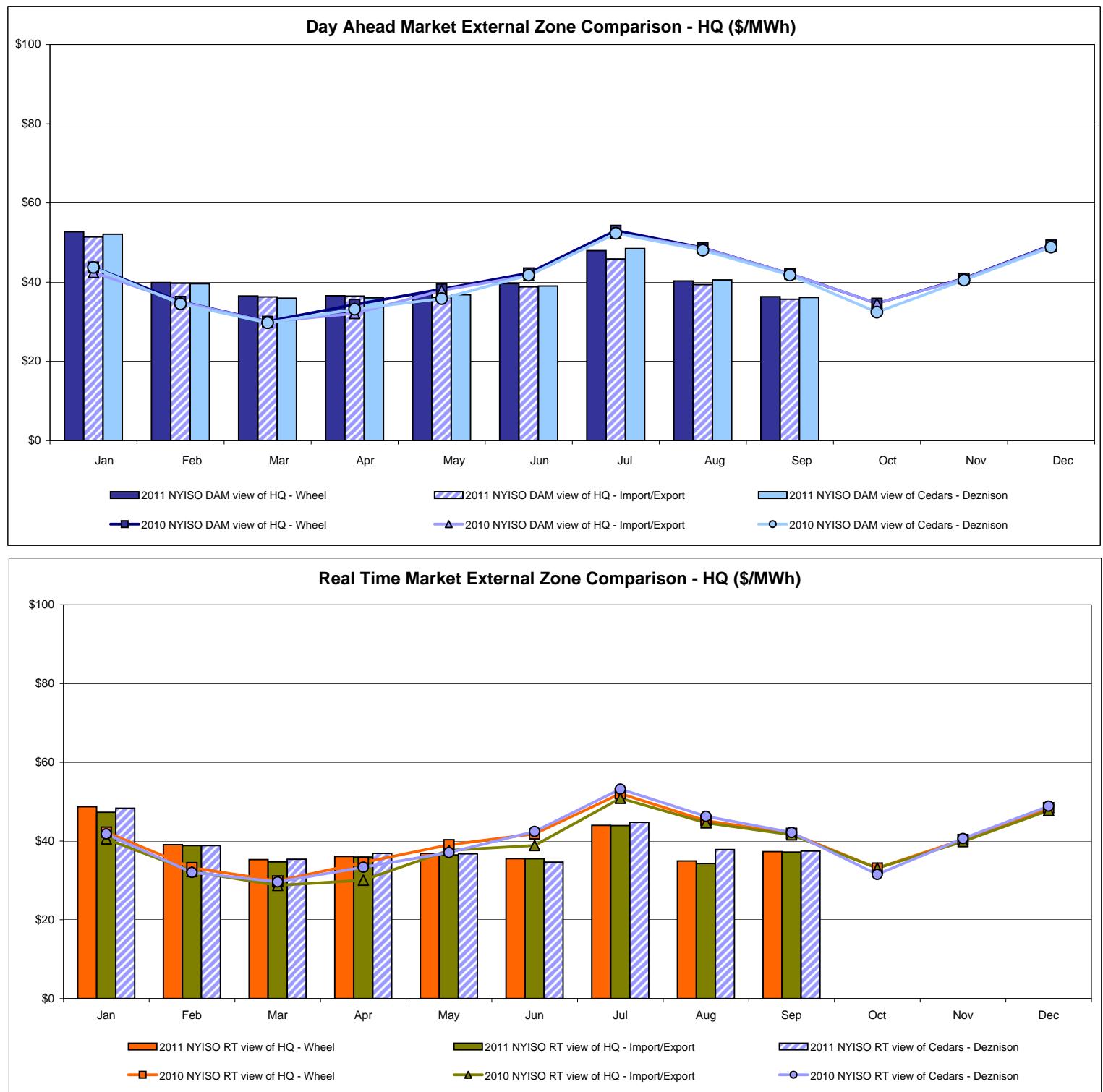
Day Ahead Market Comparison: Neptune (\$/MWh)



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



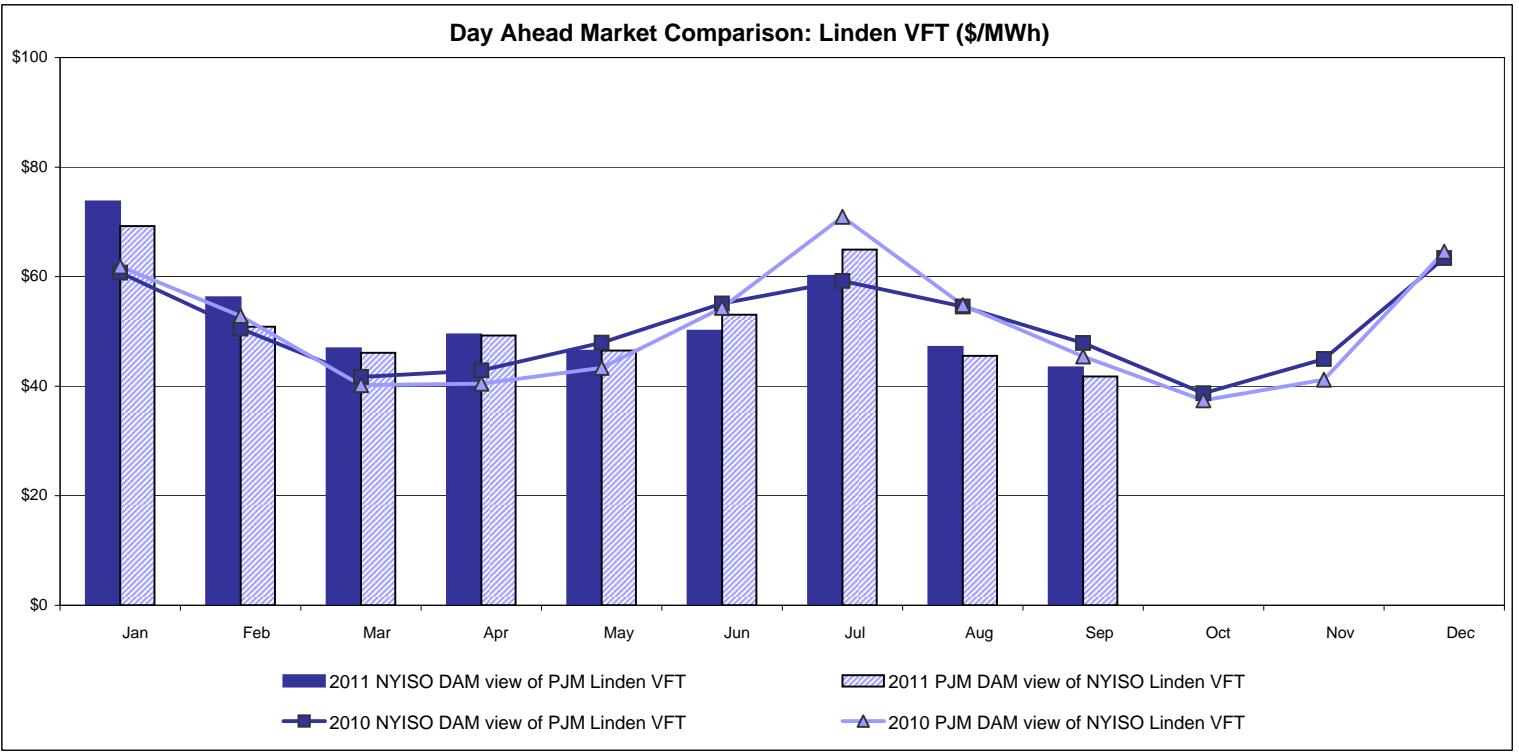
External Comparison Hydro-Quebec



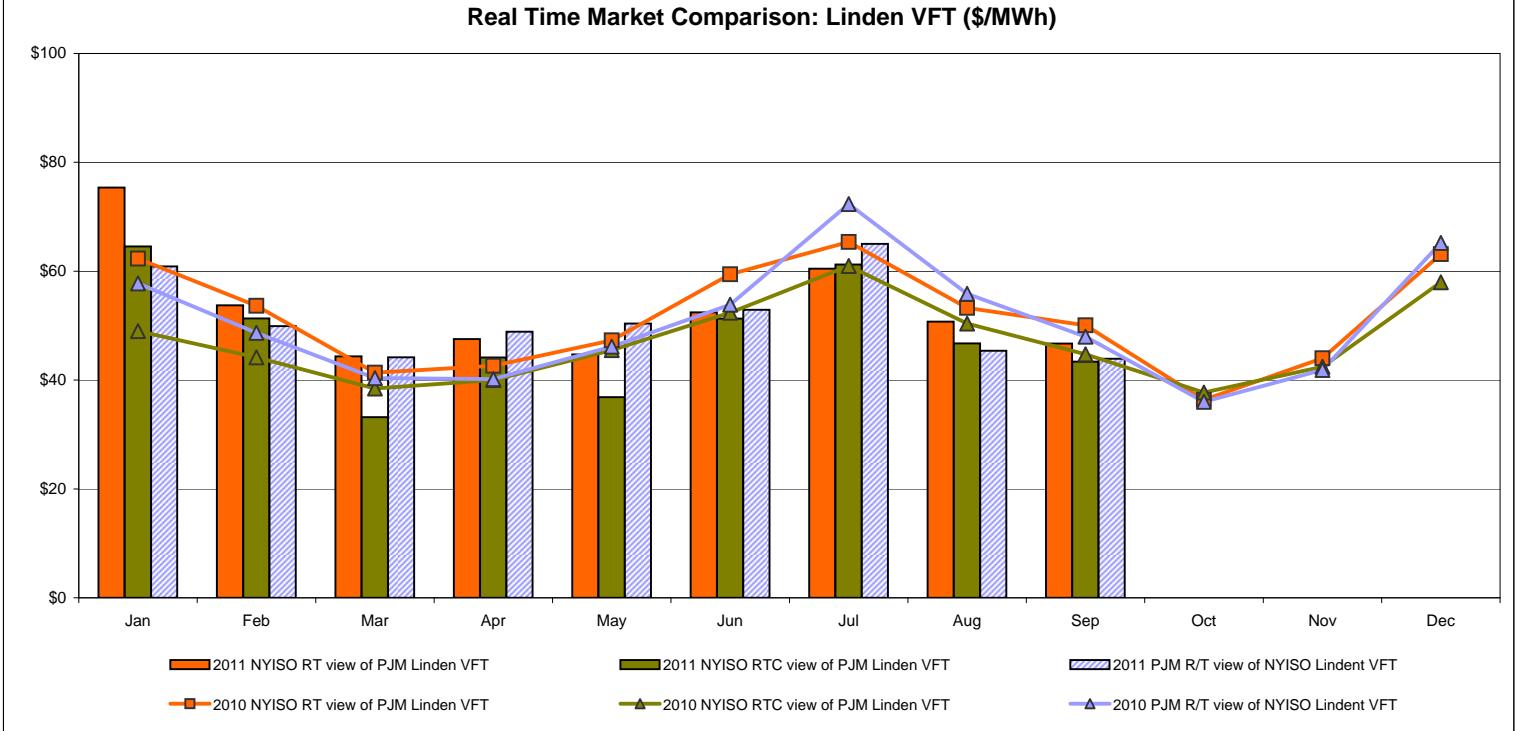
Note:

Hydro-Quebec Prices are unavailable.

External Controllable Line: Linden VFT (PJM)



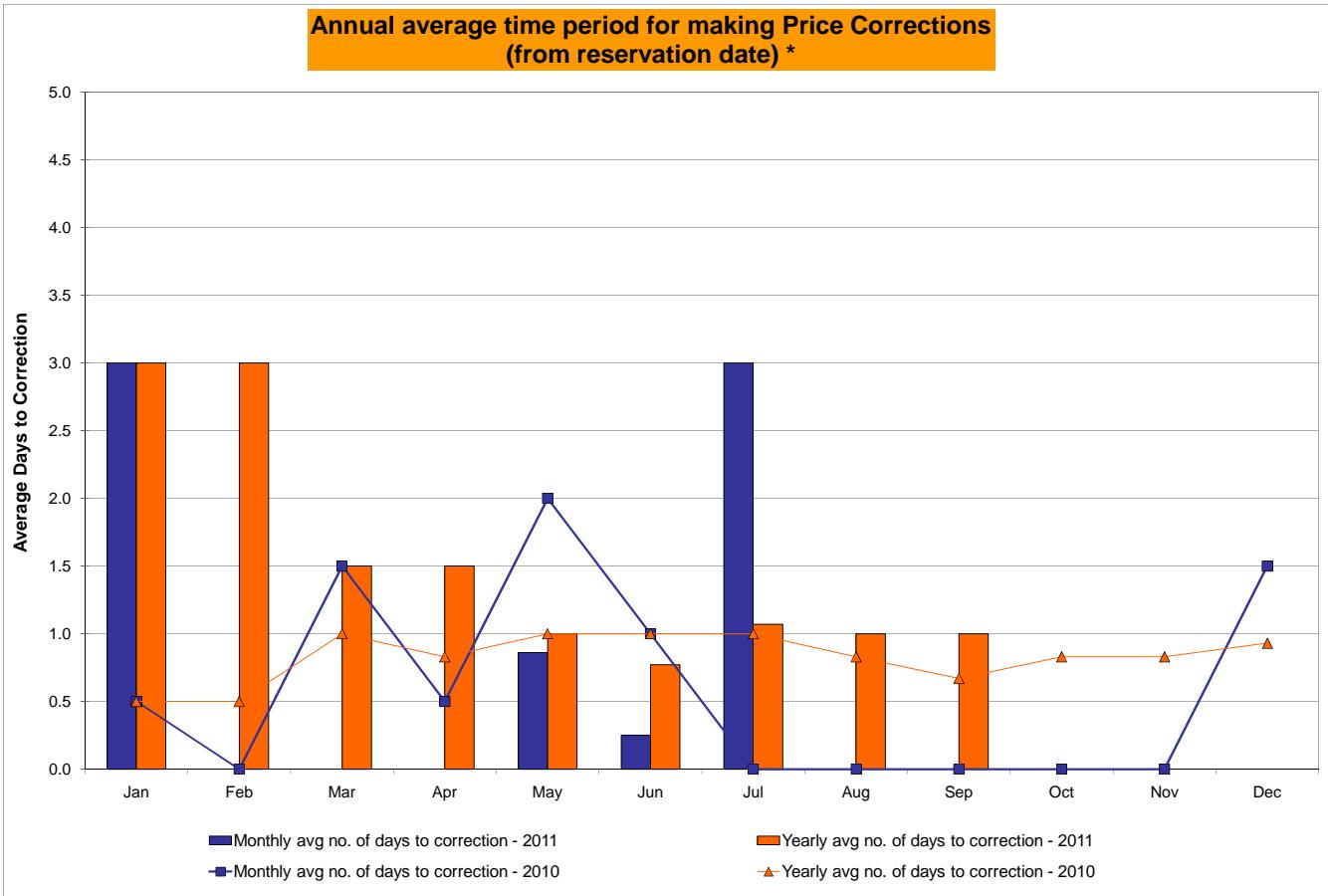
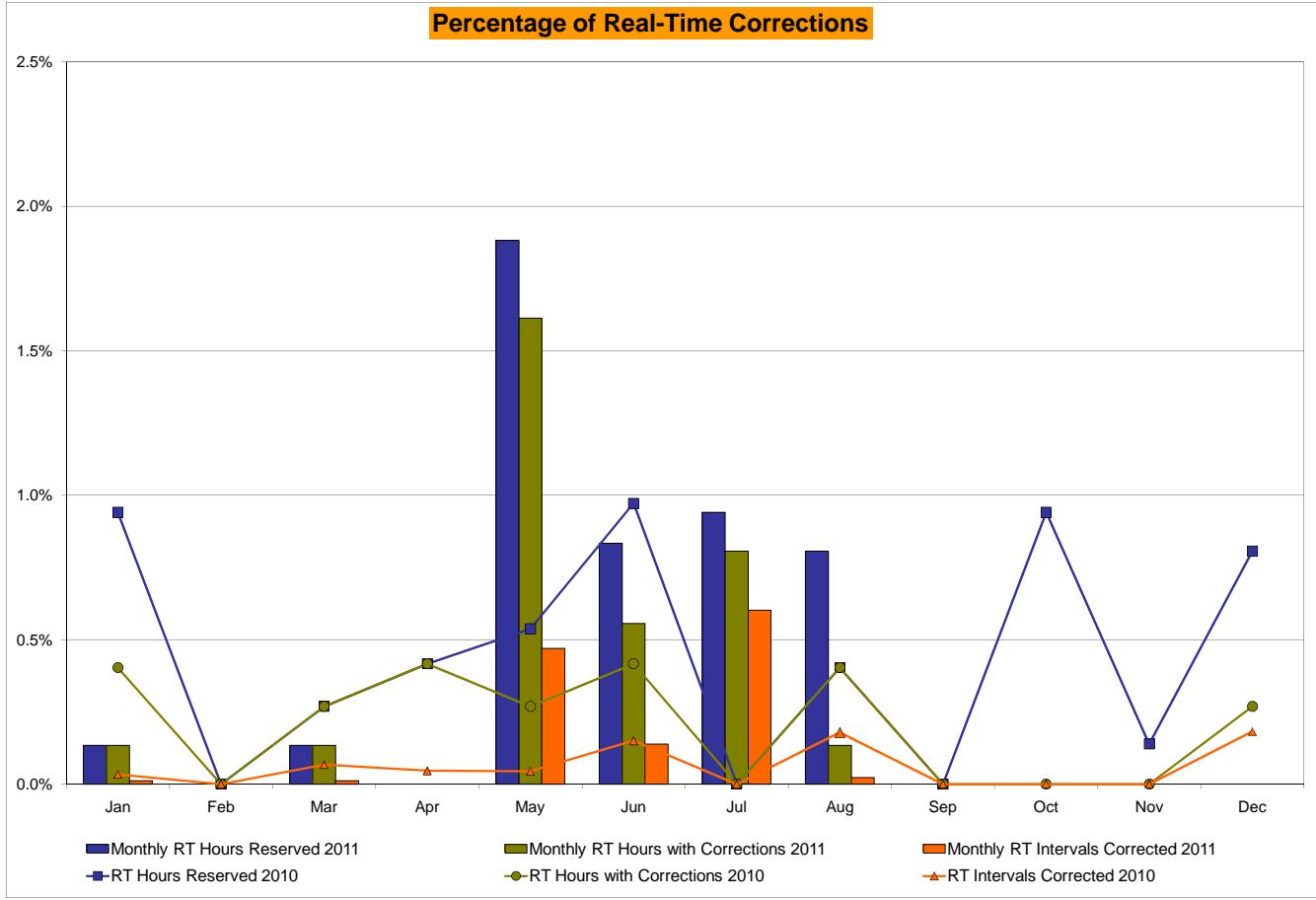
Real Time Market Comparison: Linden VFT (\$/MWh)



NYISO Real Time Price Correction Statistics

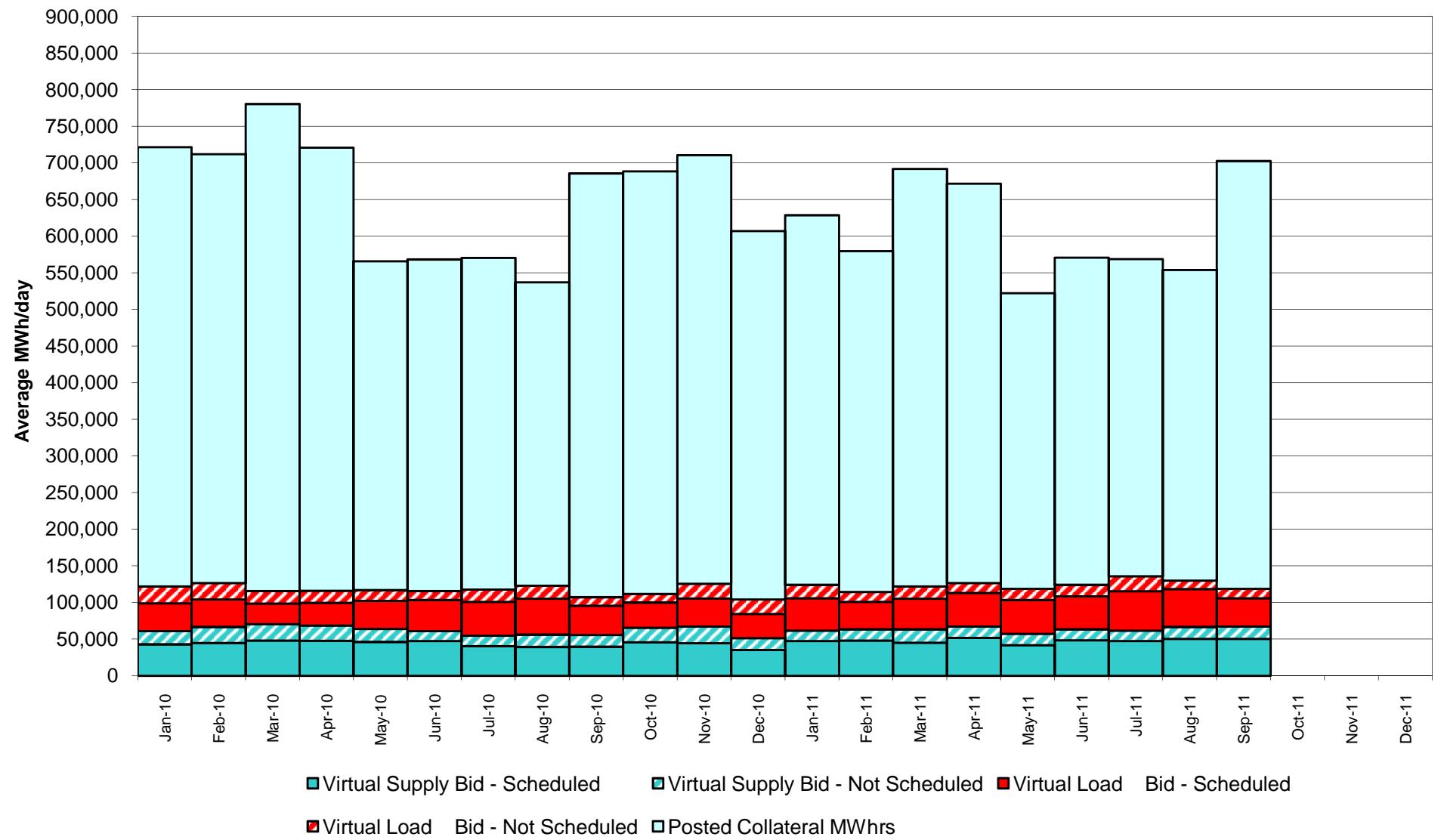
<u>2011</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<u>Hour Corrections</u>													
Number of hours with corrections	in the month	1	0	1	0	12	4	6	1	0			
Number of hours	in the month	744	672	744	720	744	720	744	744	720			
% of hours with corrections	in the month	0.13%	0.00%	0.13%	0.00%	1.61%	0.56%	0.81%	0.13%	0.00%			
% of hours with corrections	year-to-date	0.13%	0.07%	0.09%	0.07%	0.39%	0.41%	0.47%	0.43%	0.38%			
<u>Interval Corrections</u>													
Number of intervals corrected	in the month	1	0	1	0	42	12	54	2	0			
Number of intervals	in the month	8,938	8,049	8,924	8,671	8,939	8,661	8,967	9,021	8,678			
% of intervals corrected	in the month	0.01%	0.00%	0.01%	0.00%	0.47%	0.14%	0.60%	0.02%	0.00%			
% of intervals corrected	year-to-date	0.01%	0.01%	0.01%	0.01%	0.10%	0.11%	0.18%	0.16%	0.14%			
<u>Hours Reserved</u>													
Number of hours reserved	in the month	1	0	1	0	14	6	7	6	0			
Number of hours	in the month	744	672	744	720	744	720	744	744	720			
% of hours reserved	in the month	0.13%	0.00%	0.13%	0.00%	1.88%	0.83%	0.94%	0.81%	0.00%			
% of hours reserved	year-to-date	0.13%	0.07%	0.09%	0.07%	0.44%	0.51%	0.57%	0.60%	0.53%			
<u>Days to Correction *</u>													
Avg. number of days to correction	in the month	3.00	0.00	0.00	0.00	0.86	0.25	3.00	0.00	0.00			
Avg. number of days to correction	year-to-date	3.00	3.00	1.50	1.50	1.00	0.77	1.07	1.00	1.00			
<u>Days Without Corrections</u>													
Days without corrections	in the month	30	28	30	30	24	26	29	30	30			
Days without corrections	year-to-date	30	58	88	118	142	168	197	227	257			
<u>2010</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
<u>Hour Corrections</u>													
Number of hours with corrections	in the month	3	0	2	3	2	3	0	3	0	0	0	2
Number of hours	in the month	744	672	744	720	744	720	744	744	720	744	432	744
% of hours with corrections	in the month	0.40%	0.00%	0.27%	0.42%	0.27%	0.42%	0.00%	0.40%	0.00%	0.00%	0.00%	0.27%
% of hours with corrections	year-to-date	0.40%	0.21%	0.23%	0.28%	0.28%	0.30%	0.26%	0.27%	0.24%	0.22%	0.21%	0.21%
<u>Interval Corrections</u>													
Number of intervals corrected	in the month	3	0	6	4	4	13	0	16	0	0	0	10
Number of intervals	in the month	8,934	8,057	8,913	8,640	8,946	8,660	8,955	8,955	8,654	8,944	5,196	5,474
% of intervals corrected	in the month	0.03%	0.00%	0.07%	0.05%	0.04%	0.15%	0.00%	0.18%	0.00%	0.00%	0.00%	0.18%
% of intervals corrected	year-to-date	0.03%	0.02%	0.03%	0.04%	0.04%	0.06%	0.05%	0.07%	0.06%	0.05%	0.05%	0.06%
<u>Hours Reserved</u>													
Number of hours reserved	in the month	7	0	2	3	4	7	0	3	0	7	1	6
Number of hours	in the month	744	672	744	720	744	720	744	744	720	744	432	744
% of hours reserved	in the month	0.94%	0.00%	0.27%	0.42%	0.54%	0.97%	0.00%	0.40%	0.00%	0.94%	0.23%	0.81%
% of hours reserved	year-to-date	0.94%	0.49%	0.42%	0.42%	0.44%	0.53%	0.45%	0.45%	0.40%	0.45%	0.44%	0.46%
<u>Days to Correction *</u>													
Avg. number of days to correction	in the month	0.50	0.00	1.50	0.50	2.00	1.00	0.00	0.00	0.00	0.00	0.00	1.50
Avg. number of days to correction	year-to-date	0.50	0.50	1.00	0.83	1.00	1.00	1.00	0.83	0.67	0.83	0.83	0.93
<u>Days Without Corrections</u>													
Days without corrections	in the month	29	28	29	28	30	28	31	29	30	31	18	18
Days without corrections	year-to-date	29	57	86	114	144	172	203	232	262	293	311	341

* Calendar days from reservation date.

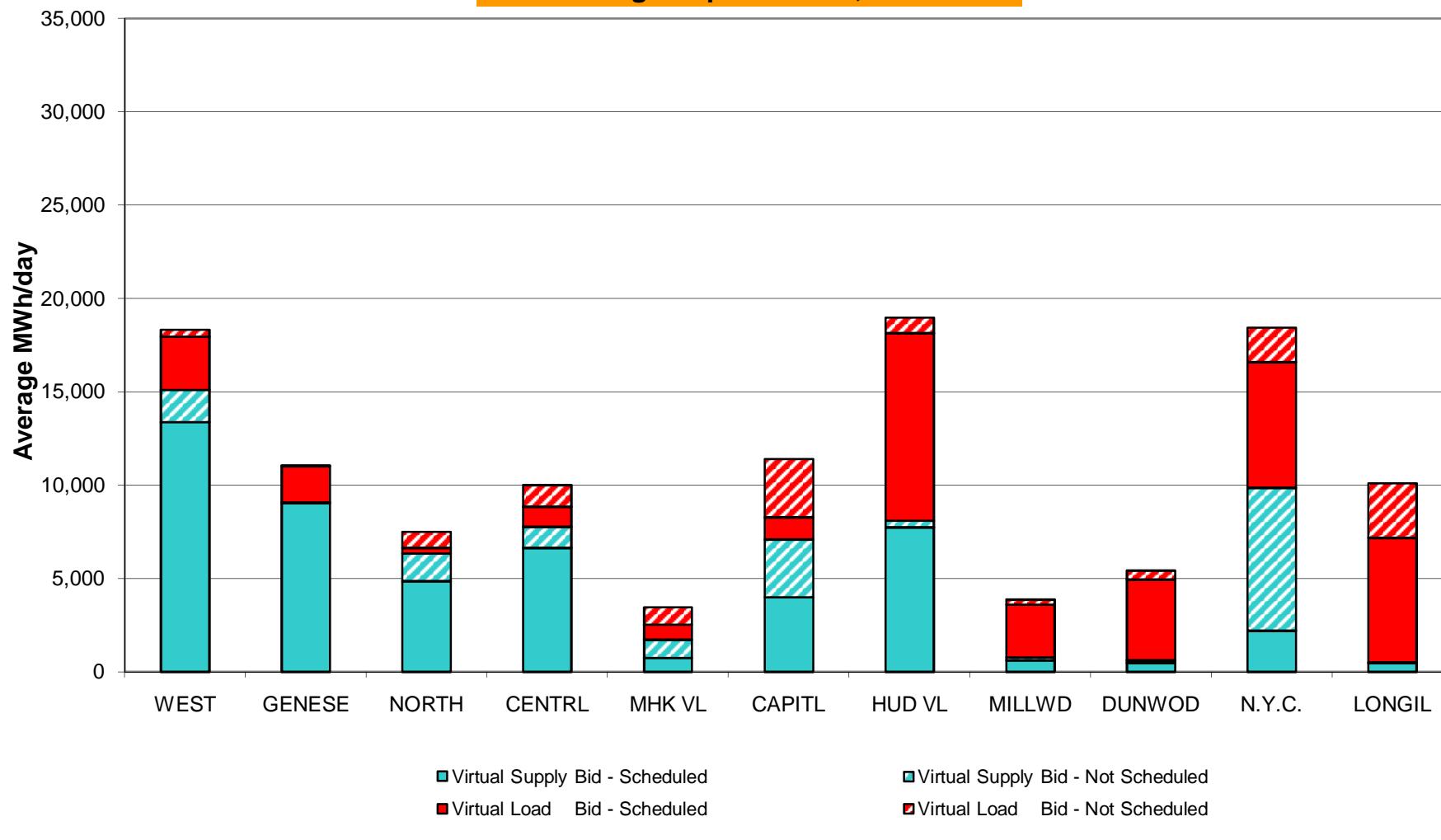


* Calendar days from reservation date.

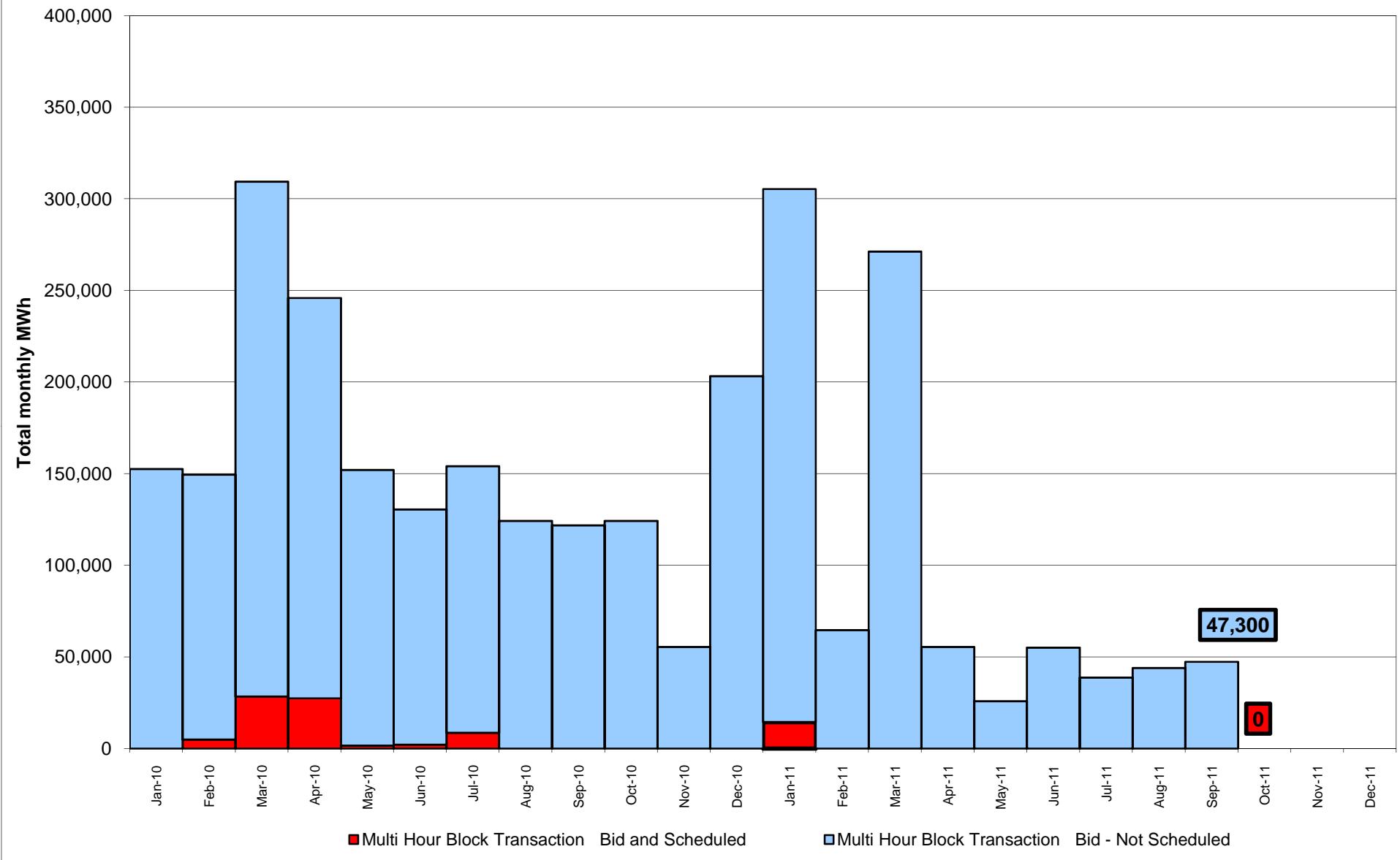
NYISO Virtual Trading
Average MWh per day

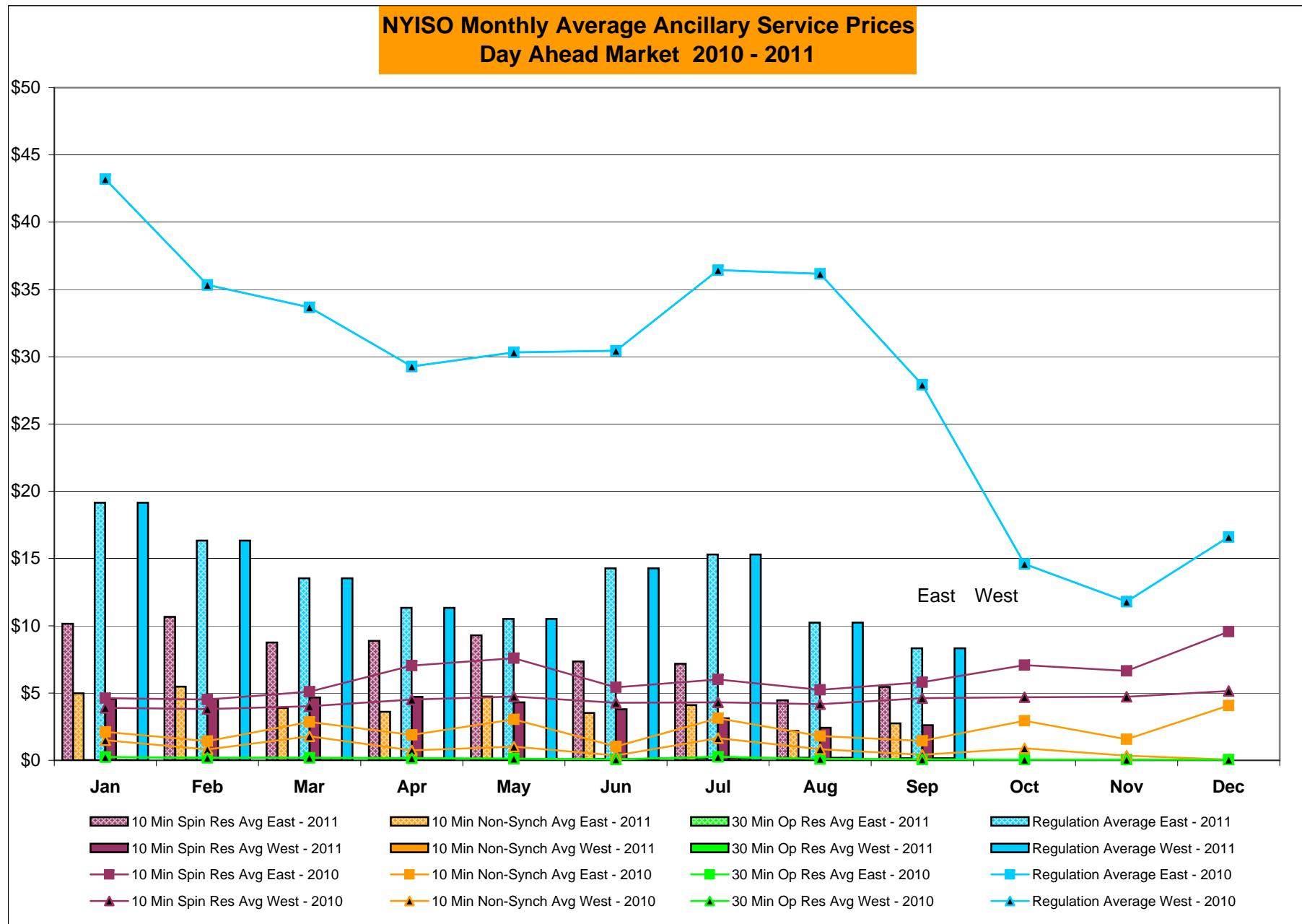


**Virtual Load and Supply Zonal Statistics
through September 30, 2011**

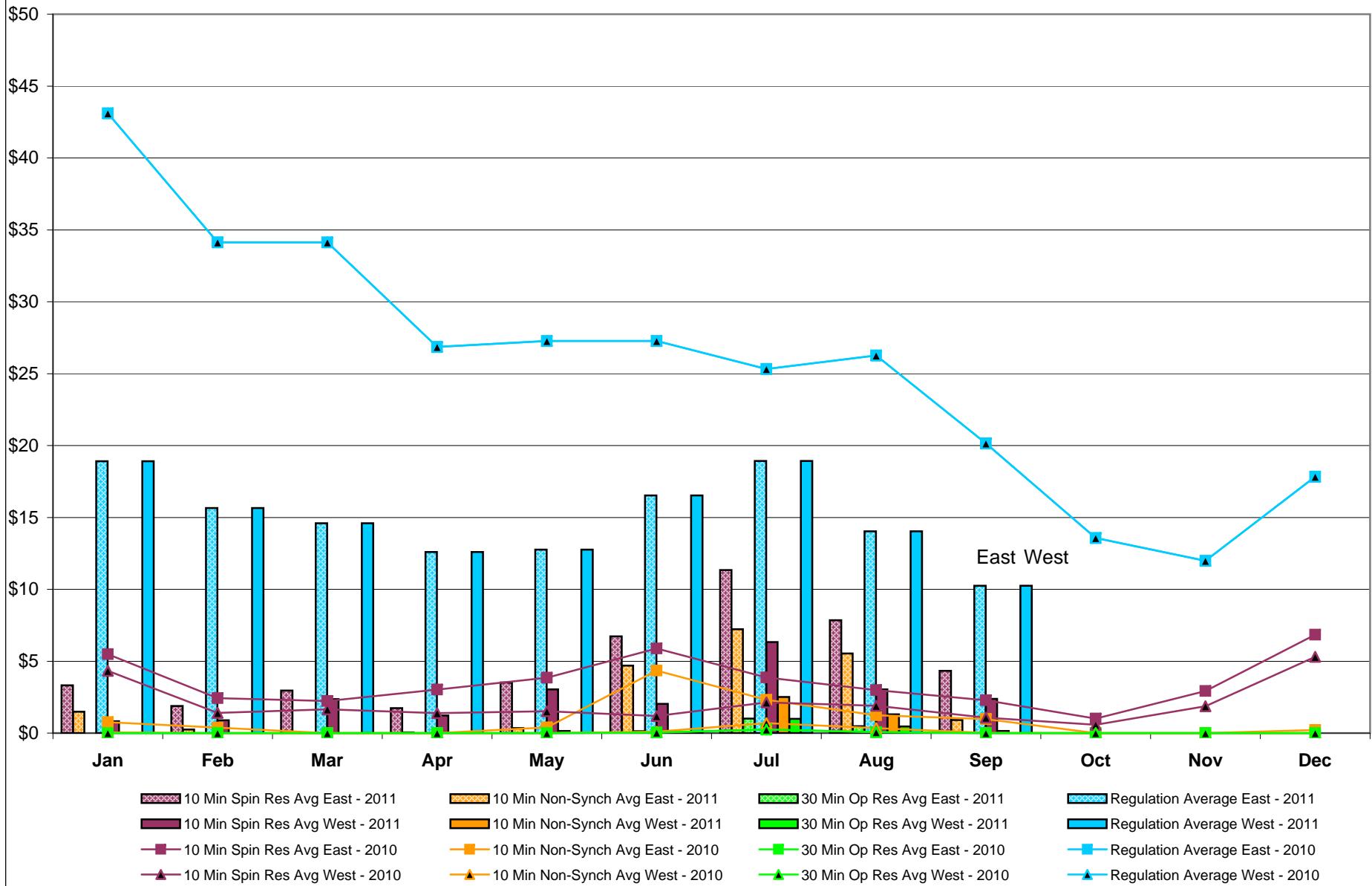


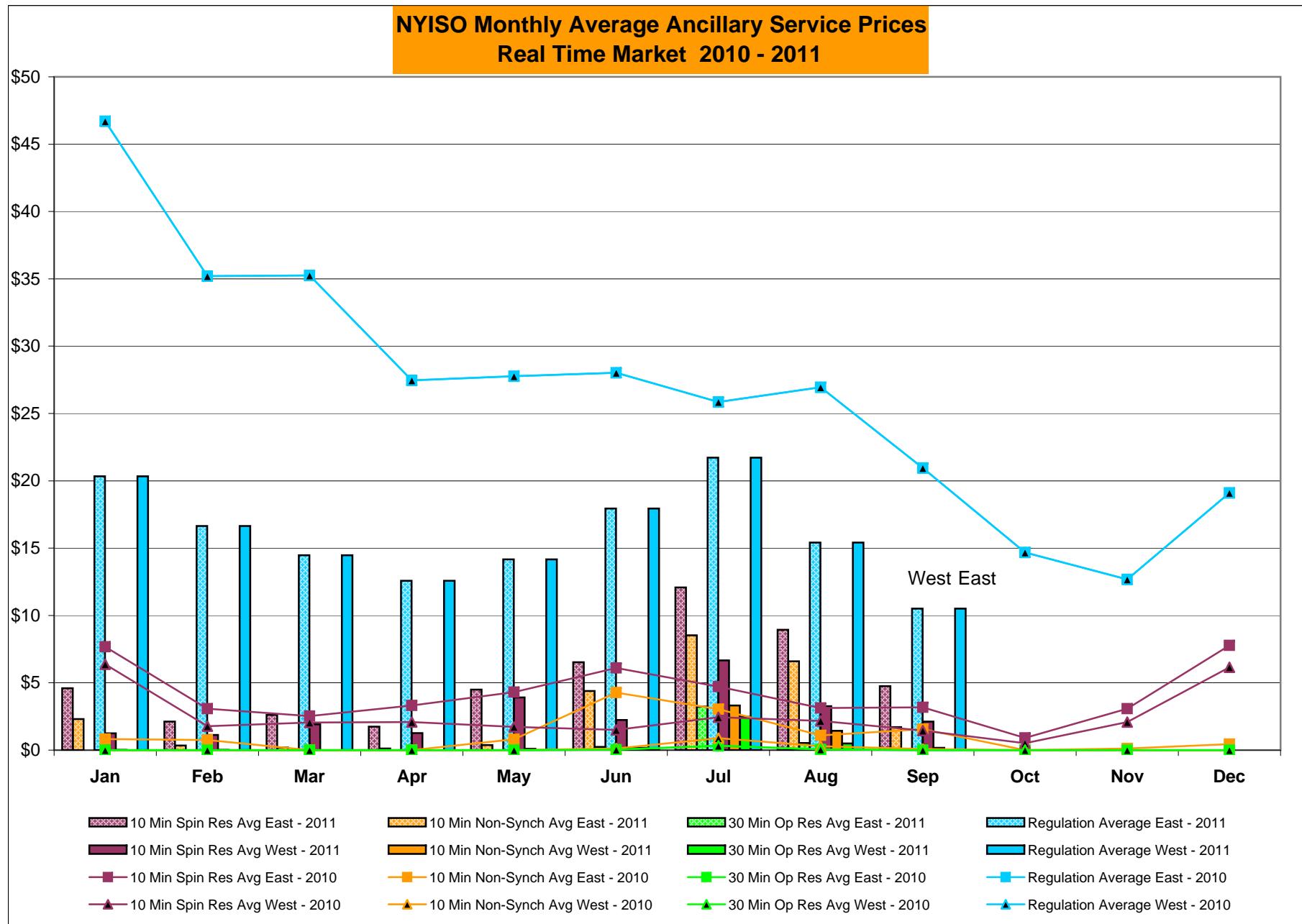
NYISO Multi Hour Block Transactions Monthly Total MWh





NYISO Monthly Average Ancillary Service Prices
RTC Market 2010 - 2011

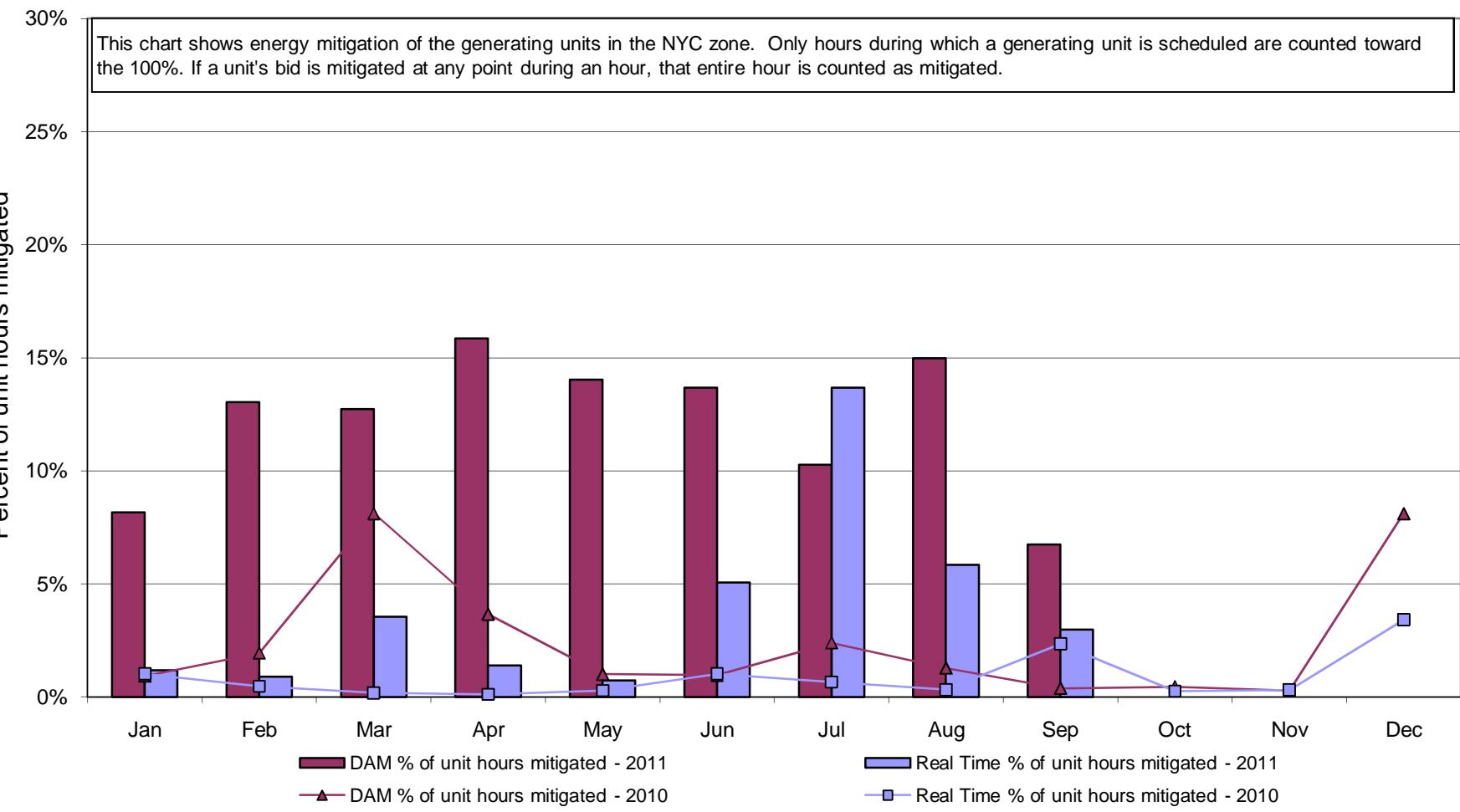




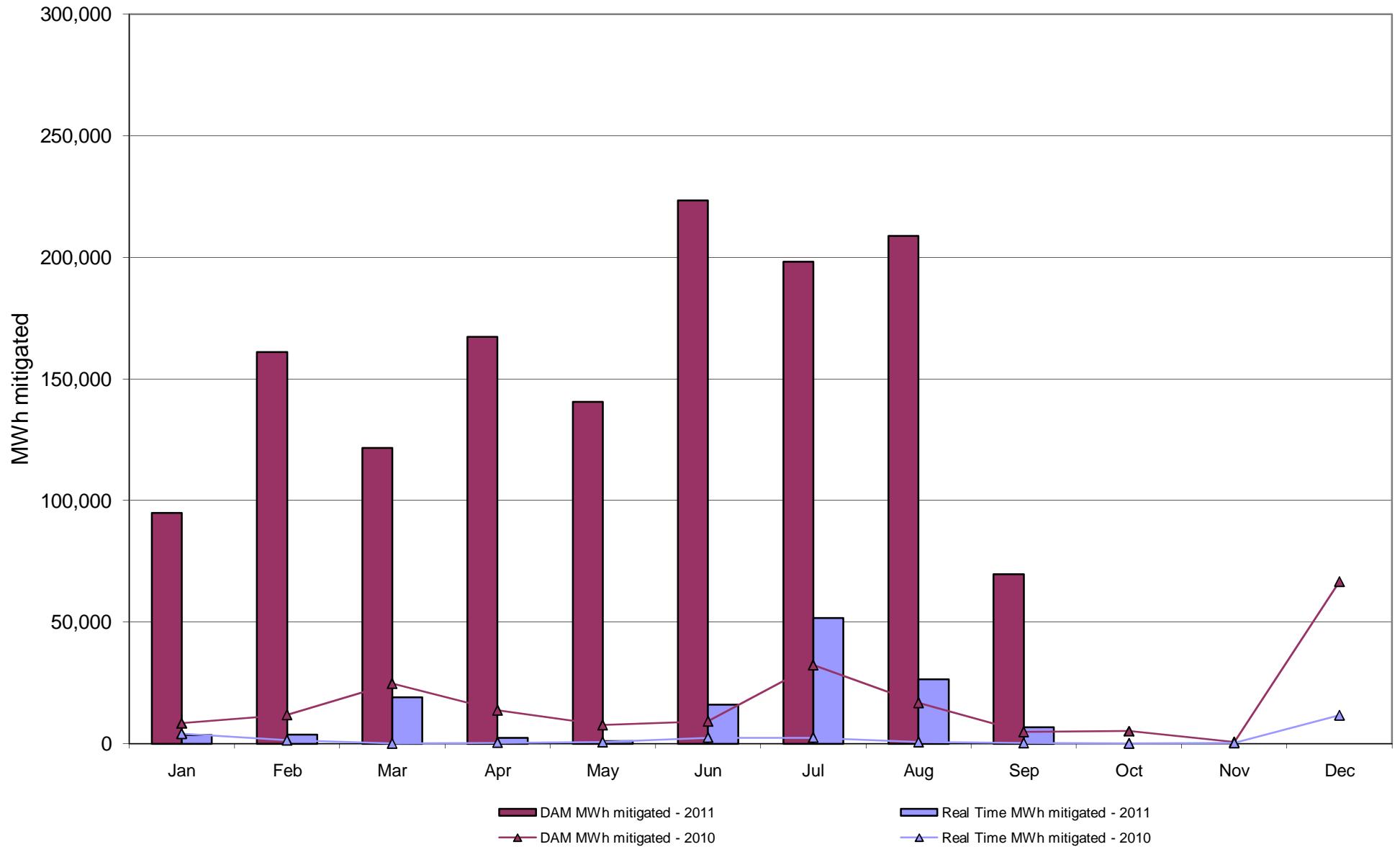
	A	B	C	D	E	F	G	H	I	J	K	L	M
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)													
3	2011	January	February	March	April	May	June	July	August	September	October	November	December
4	Day Ahead Market												
5	10 Min Spin East	10.15	10.66	8.76	8.87	9.30	7.35	7.18	4.47	5.46			
6	10 Min Spin West	4.55	4.56	4.67	4.72	4.30	3.80	3.12	2.42	2.62			
7	10 Min Non Synch East	4.99	5.48	3.90	3.60	4.75	3.51	4.10	2.19	2.75			
8	10 Min Non Synch West	0.02	0.02	0.02	0.03	0.03	0.10	0.17	0.19	0.15			
9	30 Min East	0.02	0.02	0.02	0.03	0.03	0.10	0.17	0.19	0.15			
10	30 Min West	0.02	0.02	0.02	0.03	0.03	0.10	0.17	0.19	0.15			
11	Regulation East	19.14	16.33	13.53	11.34	10.51	14.26	15.29	10.23	8.32			
12	Regulation West	19.14	16.33	13.53	11.34	10.51	14.26	15.29	10.23	8.32			
14	RTC Market												
15	10 Min Spin East	3.32	1.88	2.96	1.74	3.52	6.74	11.34	7.84	4.33			
16	10 Min Spin West	0.83	0.89	2.37	1.23	3.05	2.03	6.33	3.04	2.38			
17	10 Min Non Synch East	1.48	0.25	0.04	0.05	0.35	4.69	7.23	5.54	0.91			
18	10 Min Non Synch West	0.00	0.00	0.00	0.00	0.15	0.07	2.51	1.31	0.16			
19	30 Min East	0.00	0.00	0.00	0.00	0.00	0.13	1.01	0.47	0.00			
20	30 Min West	0.00	0.00	0.00	0.00	0.00	0.07	1.00	0.45	0.00			
21	Regulation East	18.91	15.65	14.60	12.59	12.77	16.54	18.93	14.03	10.24			
22	Regulation West	18.91	15.65	14.60	12.59	12.77	16.54	18.93	14.03	10.24			
24	Real Time Market												
25	10 Min Spin East	4.59	2.12	2.61	1.74	4.49	6.52	12.08	8.94	4.75			
26	10 Min Spin West	1.25	1.12	1.92	1.26	3.92	2.23	6.66	3.27	2.12			
27	10 Min Non Synch East	2.31	0.35	0.19	0.13	0.37	4.38	8.52	6.60	1.71			
28	10 Min Non Synch West	0.02	0.02	0.00	0.00	0.10	0.18	3.31	1.44	0.17			
29	30 Min East	0.00	0.00	0.00	0.00	0.00	0.24	3.22	0.52	0.00			
30	30 Min West	0.00	0.00	0.00	0.00	0.00	0.18	2.47	0.50	0.00			
31	Regulation East	20.34	16.65	14.48	12.57	14.17	17.94	21.72	15.41	10.51			
32	Regulation West	20.34	16.65	14.48	12.57	14.17	17.94	21.72	15.41	10.51			
34	2010	January	February	March	April	May	June	July	August	September	October	November	December
35	Day Ahead Market												
36	10 Min Spin East	4.62	4.51	5.10	7.04	7.59	5.43	6.00	5.23	5.80	7.07	6.64	9.56
37	10 Min Spin West	3.90	3.80	4.02	4.51	4.73	4.27	4.31	4.16	4.62	4.69	4.71	5.14
38	10 Min Non Synch East	2.11	1.42	2.85	1.89	3.04	1.04	3.12	1.81	1.44	2.94	1.57	4.08
39	10 Min Non Synch West	1.49	0.80	1.78	0.74	1.02	0.37	1.65	0.82	0.42	0.89	0.35	0.04
40	30 Min East	0.24	0.18	0.18	0.16	0.12	0.07	0.27	0.10	0.06	0.05	0.06	0.04
41	30 Min West	0.24	0.18	0.18	0.16	0.12	0.07	0.27	0.10	0.06	0.05	0.06	0.04
42	Regulation East	43.21	35.33	33.67	29.28	30.33	30.44	36.44	36.15	27.92	14.60	11.80	16.60
43	Regulation West	43.21	35.33	33.67	29.28	30.33	30.44	36.44	36.15	27.92	14.60	11.80	16.60
45	RTC Market												
46	10 Min Spin East	5.49	2.42	2.22	3.03	3.86	5.89	3.87	2.99	2.28	1.00	2.93	6.84
47	10 Min Spin West	4.32	1.40	1.66	1.38	1.53	1.19	2.13	1.90	1.08	0.57	1.87	5.31
48	10 Min Non Synch East	0.77	0.37	0.00	0.00	0.39	4.35	2.31	1.23	0.97	0.00	0.00	0.21
49	10 Min Non Synch West	0.05	0.00	0.00	0.00	0.00	0.11	0.69	0.35	0.02	0.00	0.00	0.00
50	30 Min East	0.00	0.00	0.00	0.00	0.00	0.04	0.26	0.07	0.00	0.00	0.00	0.00
51	30 Min West	0.00	0.00	0.00	0.00	0.00	0.03	0.26	0.07	0.00	0.00	0.00	0.00
52	Regulation East	43.11	34.13	34.13	26.86	27.28	27.26	25.32	26.27	20.15	13.58	11.99	17.83
53	Regulation West	43.11	34.13	34.13	26.86	27.28	27.26	25.32	26.27	20.15	13.58	11.99	17.83
55	Real Time Market												
56	10 Min Spin East	7.67	3.08	2.54	3.31	4.30	6.10	4.71	3.13	3.17	0.91	3.07	7.78
57	10 Min Spin West	6.37	1.78	2.05	2.09	1.73	1.51	2.44	2.17	1.46	0.51	2.09	6.16
58	10 Min Non Synch East	0.83	0.74	0.00	0.00	0.81	4.28	3.05	1.09	1.55	0.00	0.12	0.44
59	10 Min Non Synch West	0.00	0.00	0.00	0.00	0.00	0.12	0.89	0.28	0.09	0.00	0.00	0.00
60	30 Min East	0.00	0.00	0.00	0.00	0.00	0.03	0.33	0.04	0.00	0.00	0.00	0.00
61	30 Min West	0.00	0.00	0.00	0.00	0.00	0.03	0.33	0.04	0.00	0.00	0.00	0.00
62	Regulation East	46.71	35.21	35.26	27.47	27.78	28.03	25.85	26.94	20.94	14.67	12.69	19.11
63	Regulation West	46.71	35.21	35.26	27.47	27.78	28.03	25.85	26.94	20.94	14.67	12.69	19.11

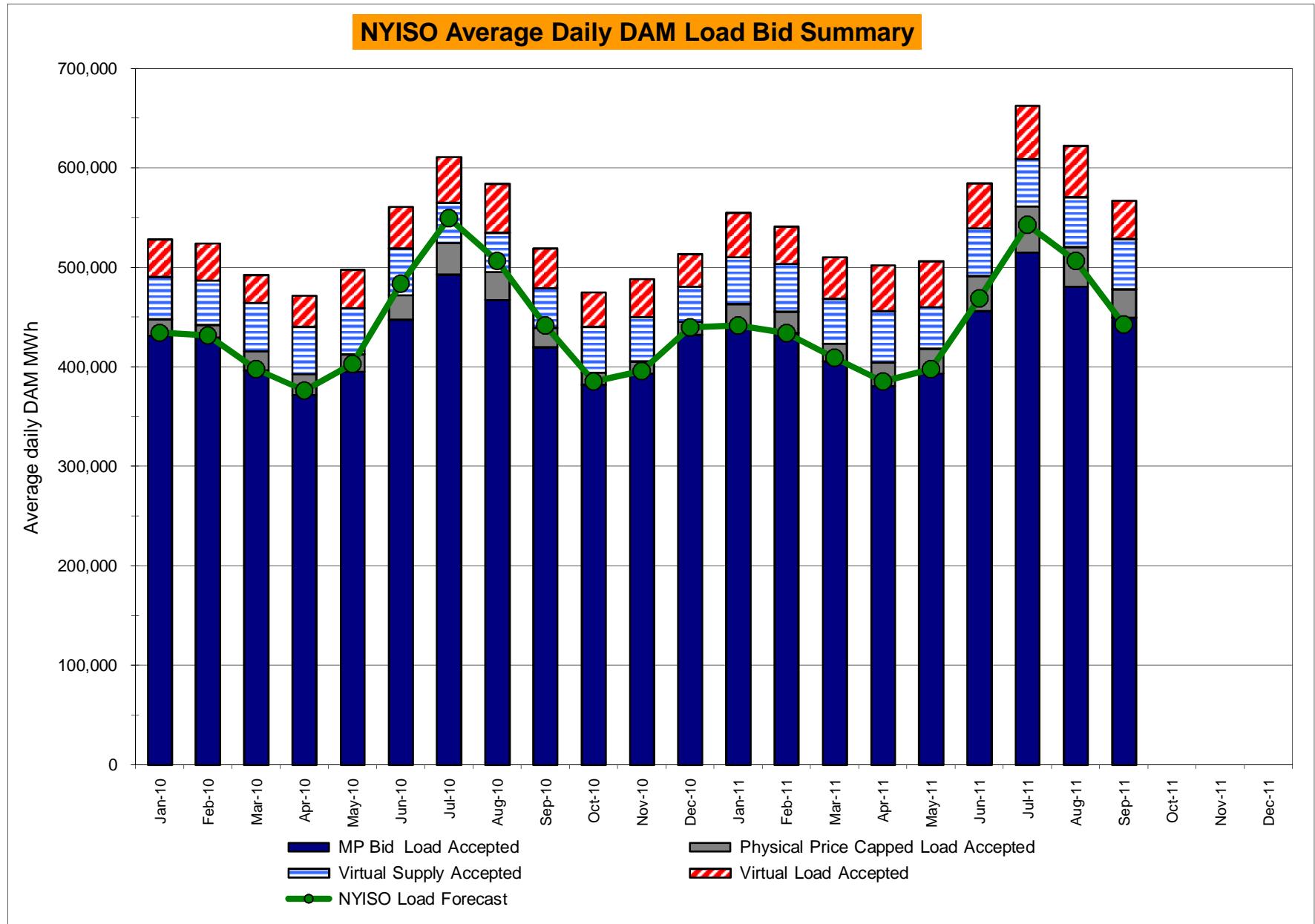
NYISO In City Energy Mitigation - AMP (NYC Zone) 2010 - 2011

Percentage of committed unit-hours mitigated

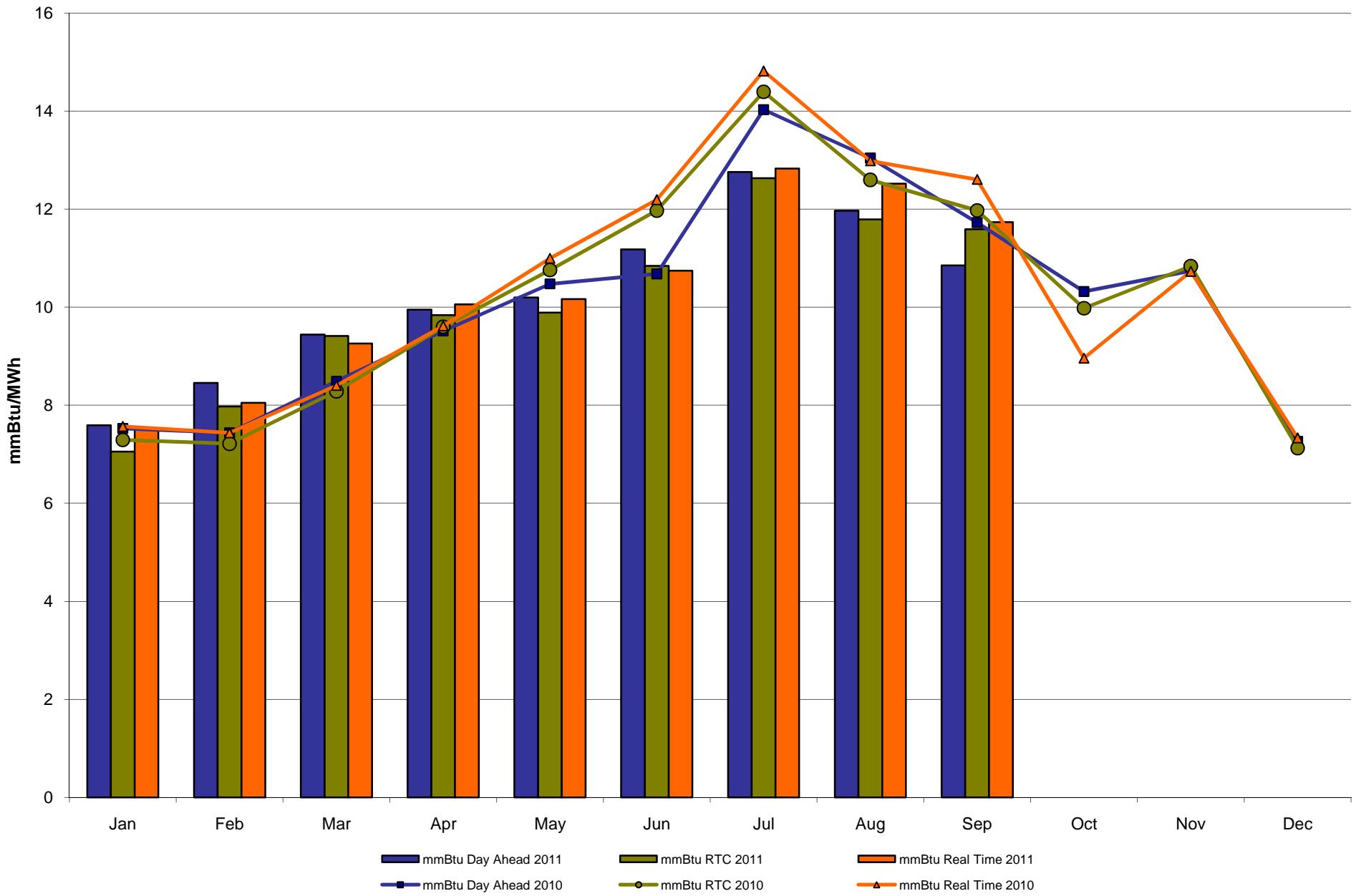


NYISO In City Energy Mitigation (NYC Zone) 2010 - 2011
Monthly megawatt hours mitigated

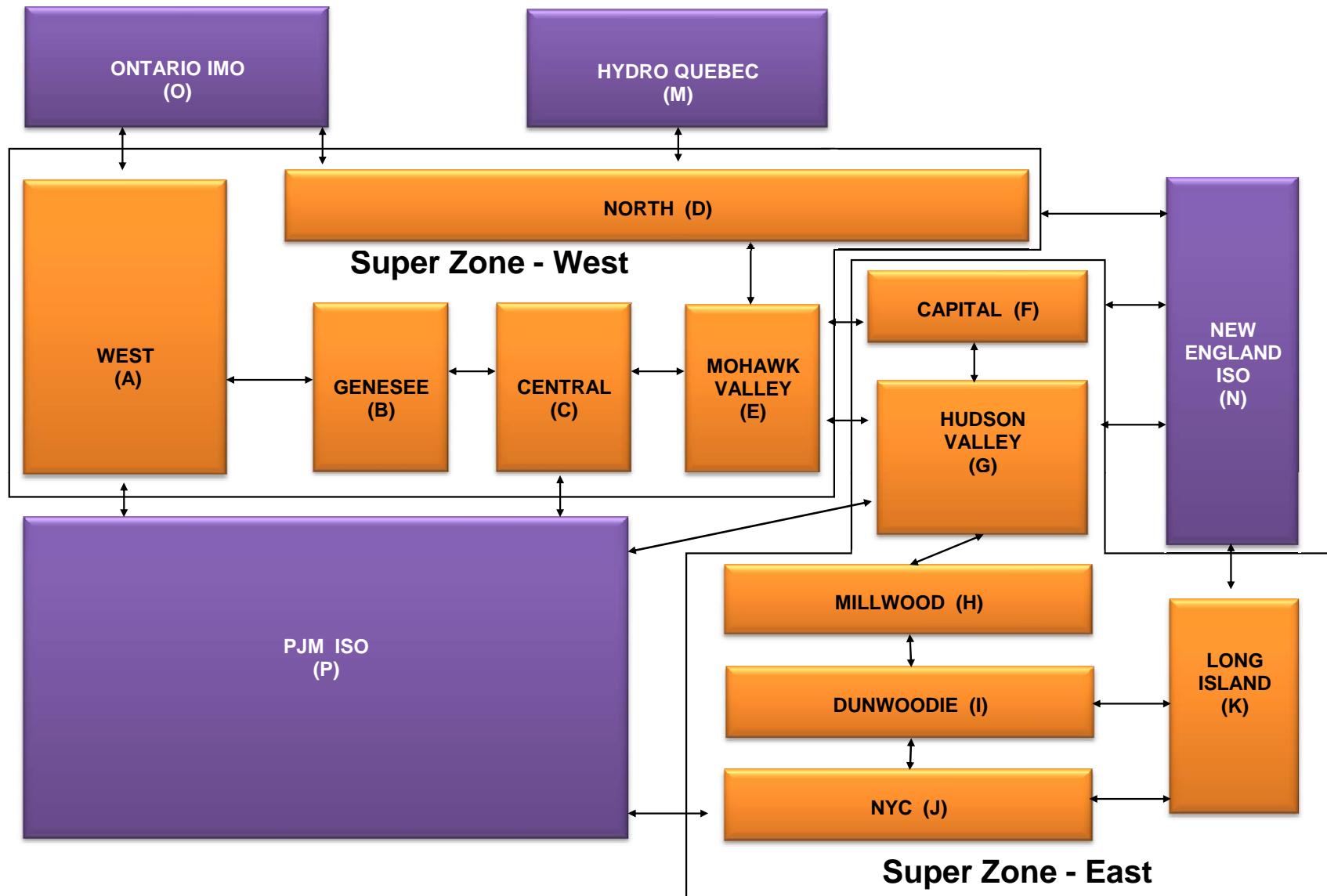




Monthly Implied Heat Rate 2010-2011



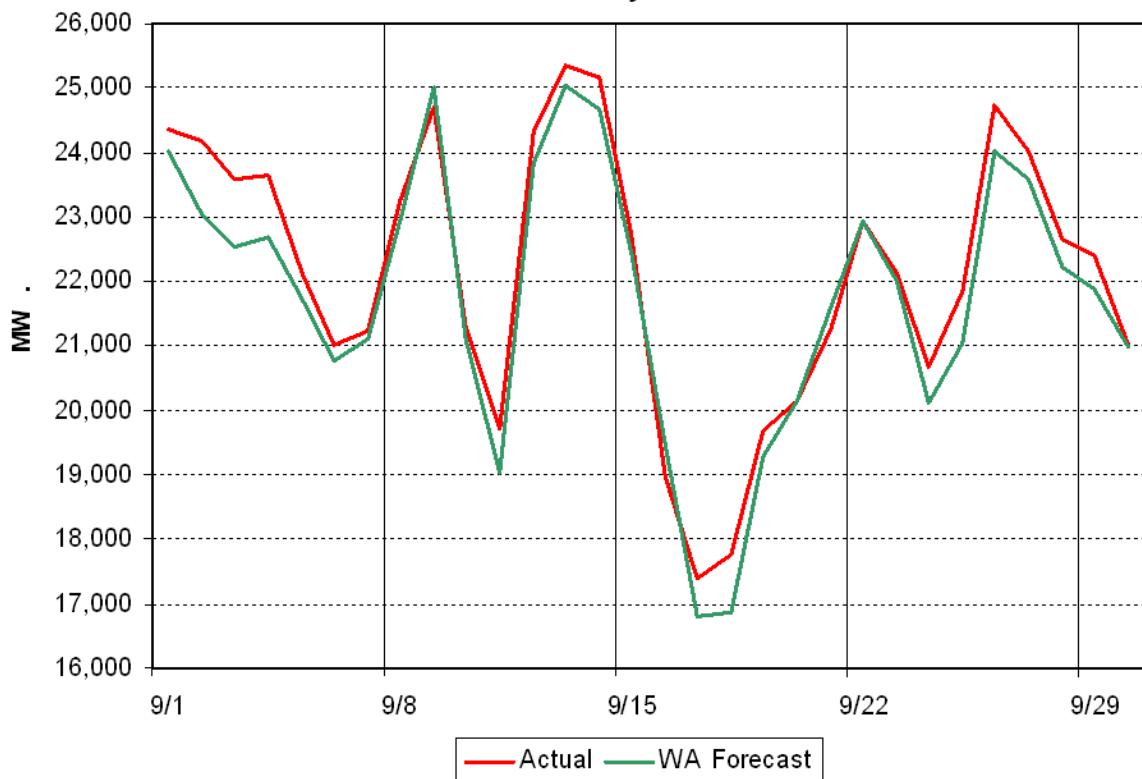
NYISO LBMP ZONES



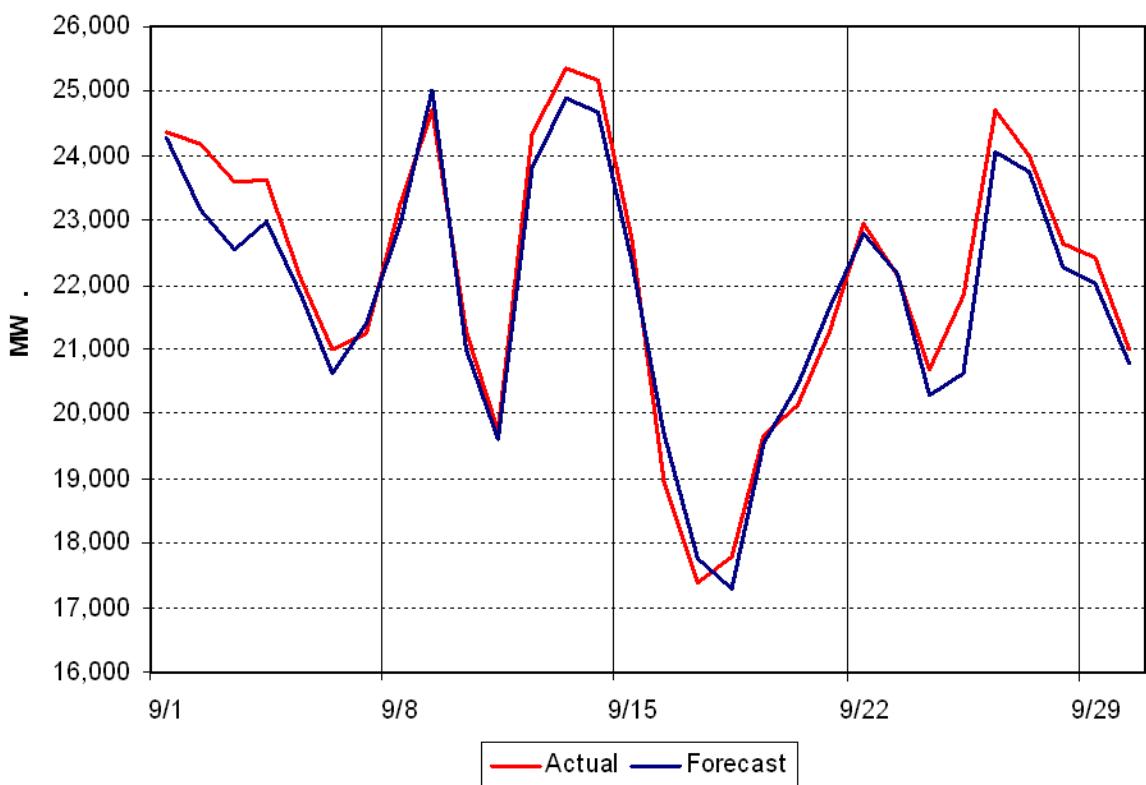
Billing Codes for Chart 4-C

Chart 4-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 - September 2011 Actual vs Weather-Adjusted Forecast

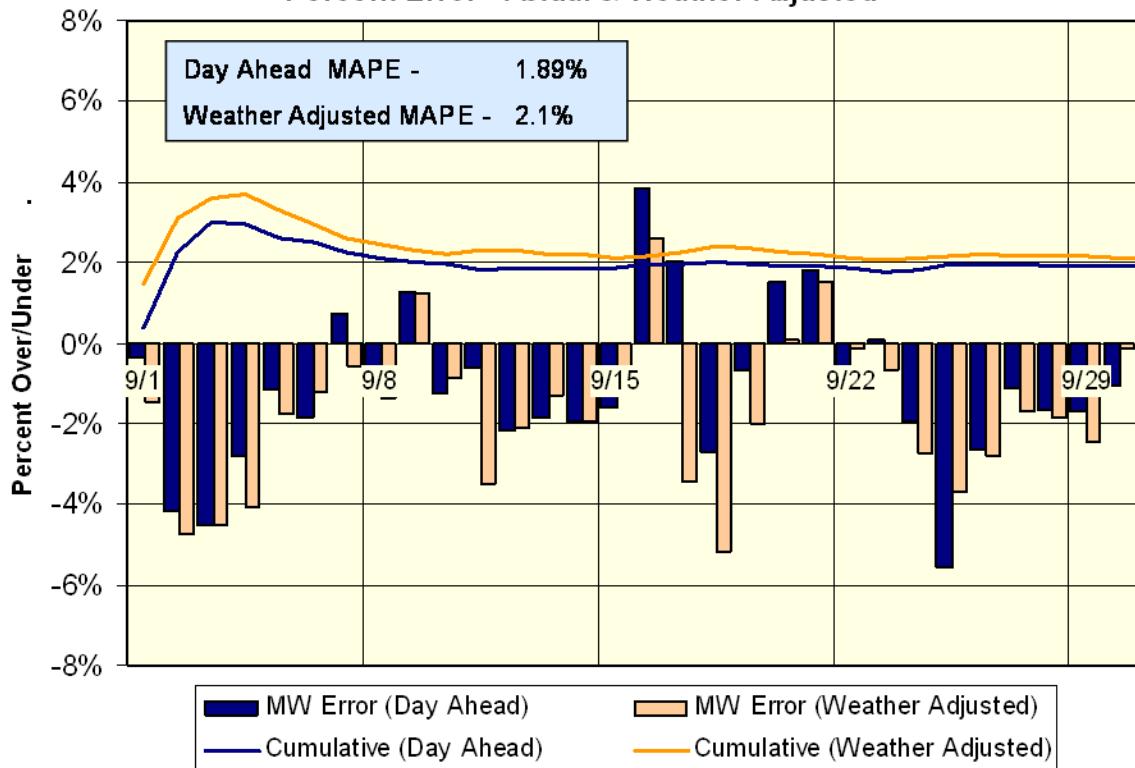


NYISO Daily Peak Load - September 2011 Actual vs Forecast



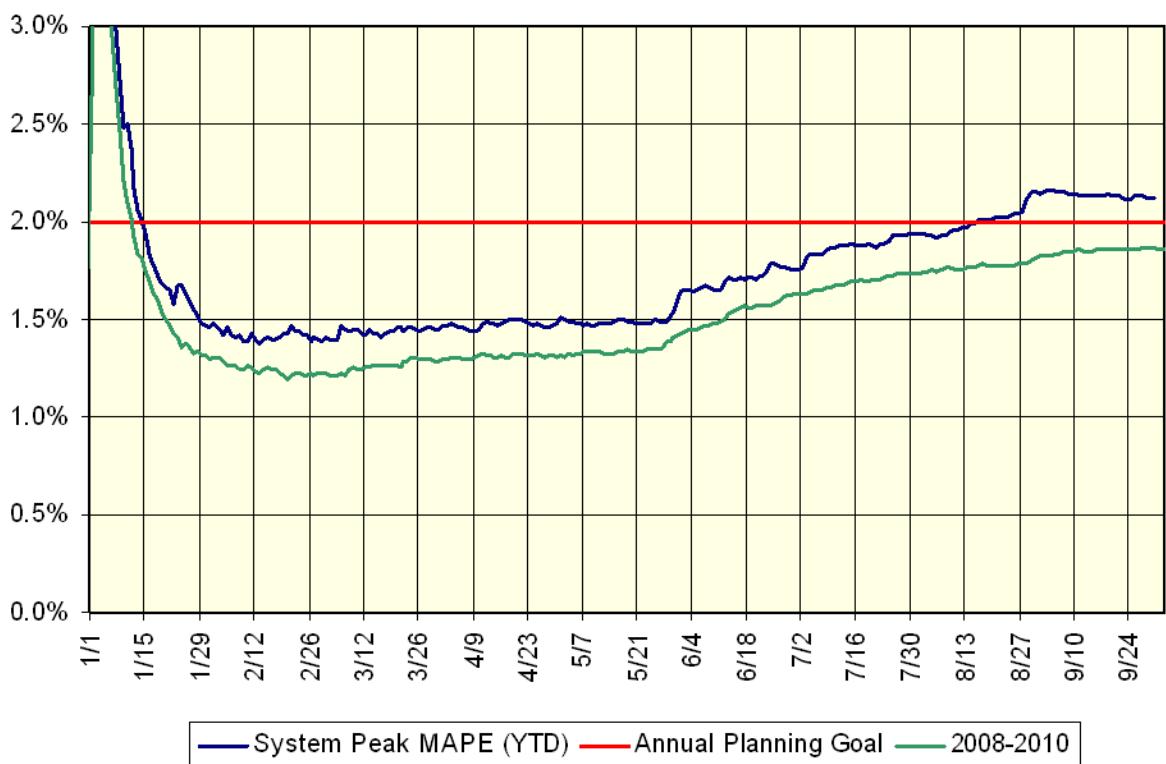
Day Ahead Forecast - September 2011

Percent Error - Actual & Weather Adjusted



Day-Ahead Forecast Accuracy - Cumulative Performance

2011 Year-to-Date





2011 Major Product Enhancements

Project	Status and Milestone Deliverables
Business Intelligence Products	
E-Planning Enhancements	<p>Status: E-Planning is a comprehensive collaboration system for NYISO System Resource Planning. The 2010 deployment was specific for Interconnection Studies. The software enhancements were successfully deployed in June. This project is complete.</p> <p>Deliverables: The focus of the 2011 project will be extending functionality to include other types of studies conducted by System Resource Planning, such as Transmission Studies.</p>
Web Posting Enhancements: Operational Events	<p>Status: "Web Postings" refers to a series of processes that generate and publish various CSV, PDF, and HTML files to NYISO's OASIS site (http://mis.nyiso.com/public). These files include zonal and generator pricing data for the Real-Time, Hour-Ahead, and Day-Ahead markets, outage data, interface limits & flows, PAR schedules & flows, actual load and load forecasts, various reports, and other publicly available data used by Market Participants.</p> <p>Deliverables: The focus of the 2011 project is to enable the real time posting of operational events, such as Major Emergency, Thunder Storm Alert, Reserve Pickup and Area Control Error (ACE), to nyiso.com. Implementation is scheduled for 4th Q 2011.</p>
Capacity Market Products	
Additional Capacity Zones	<p>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. A Lower Hudson Valley capacity zone is under consideration to reduce the impact of deliverability and better reflect the cost of new entry.</p> <p>Deliverables: The 2011 project will focus on the functional design of the logic to generalize the addition, and possibly subtraction, of capacity zones within the ICAP Automated Market System.</p>
Buyer Side Mitigation Rules	<p>Status: In February 2011 FERC accepted NYISO's compliance filing, which was submitted based on 2010 stakeholder discussions. In June NYISO deployed software changes to implement rules specific to new and up-rated Generator projects in NYC. Additional software changes were deployed in September. This project is complete.</p> <p>Deliverables: Implement the necessary rule changes within the ICAP Automated Market System, including floor price adjustment, duration of mitigation, and exemption tests. Implementation is scheduled for 3rd Q 2011 to be effective for the Winter Capability Period.</p>

Project	Status and Milestone Deliverables
Demand Response Products	
Demand Response Aggregations in DSASP	<p>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</p> <p>Deliverables: Implement the required rule changes and software changes in 2011. Implementation is planned for 3rd Q 2011.</p>
Demand Side Ancillary Services Program (DSASP) Direct Metering	<p>Status: In 2010 NYISO and stakeholders discussed the stakeholder need to enable direct communications from the NYISO to the DSASP provider/aggregator.</p> <p>Deliverables: The 2011 project will address the required market rule, software, and hardware changes needed to enable direct communications from the NYISO to the DSASP provider/aggregator. Completion of the functional requirements is scheduled for the 3rd Q 2011.</p>
Demand Response – Real Time Energy Market	<p>Status: NYISO and Market Participants are awaiting further direction from FERC on the concepts for permitting demand response entities to participate in the NYISO's real time energy market.</p> <p>Deliverables: The focus of this project in 2011 is the development of the architectural design specification for the software changes required to enable this functionality. Completion of the architectural design is scheduled for the 4th Q 2011.</p>
SCR Baseline/Aggregation Rules	<p>Status: Stakeholders approved market rule changes at the February 2011 Management Committee. These changes will result in improved estimates of the demand reduction capabilities (and Installed Capacity) of SCRs, better alignment with operational expectations during an SCR event, and greater clarity in applying performance deficiency penalties to the entities that represent SCRs in the NYISO market: Responsible Interface Parties. At the request of the Market Participants, NYISO will be seeking expedited treatment from FERC. All required software changes were successfully deployed in September. This project is complete.</p> <p>Deliverables: The focus of the 2011 project is implementation of the required software changes within the Demand Response Information System (DRIS) to implement the market rules approved by stakeholders. Implementation is scheduled for 3rd Q 2011.</p>

Project	Status and Milestone Deliverables
Energy Markets Products	
Ancillary Services Mitigation	<p>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. NYISO presented a market design concept to stakeholders in September.</p> <p>Deliverables: This project will focus on an evaluation of these two mitigation provisions and identification of appropriate modifications, if necessary. A market design concept proposal is scheduled for 3rd Q 2011.</p>
Buy-through of Congestion	<p>Status: Buy-Through of Congestion is a Broader Regional Markets initiative that addresses congestion costs created by loop flow from external transactions. Parties scheduling transactions with any of the ISOs surrounding Lake Erie would be billed for real-time congestion costs incurred by neighboring systems supporting the loop flow created by the transaction to maintain the schedule. Parties scheduling transactions would specify if they are, or are not, willing to pay for off-contract path congestion. This project will implement this functionality.</p> <p>Deliverables: Given FERC's reprioritization of this BRM initiative in the December 30, 2010 FERC Order, there are no planned deliverables for 2011.</p>
Enhanced Shortage Pricing Phase I	<p>Status: The NYISO implemented reserve demand curves as part of the SMD2 implementation to accurately and consistently capture shortage conditions directly into the market clearing prices. During the development of the market rules, set points (or set point/ MW pairs) were established for the Ancillary Service products. The demand curve will be modified to better reflect the value of reserves during shortage conditions, consistent with operational practices and reserve scheduling requirements.</p> <p>Deliverables: The focus of this project for 2011 is to implement the required software changes. This project was successfully implemented in May. This project is complete.</p>
Interregional Transaction Coordination Phases I and III	<p>Status: Interregional Transaction Coordination is a Broader Regional Markets initiative that provides more frequent scheduling of external energy transactions with the interfaces. Currently, energy transactions between NY and other control areas are evaluated economically once for the hour. The 2008 and 2009 State of the Market recommendation #2 is, "NYISO continue its work with neighboring control areas to better utilize the transfer capability between regions." Phase I of this project will enable more frequent scheduling with Hydro Quebec (HQ). Phase III will enable more frequent scheduling with PJM.</p> <p>Deliverables: The focus of this project in 2011 is to deliver the necessary software enhancements and tools to implement Intra-hour energy transaction scheduling capabilities with HQ in May 2011 and PJM in September 2011. The Phase I software changes were deployed in May, and NYISO activated the software in July. Phase 1 is complete.</p>



2011 Major Product Enhancements

Project	Status and Milestone Deliverables
Interregional Transaction Coordination Phase IV – ISO-NE Intra-hour Transaction Scheduling	<p>Status: This project expands upon the work completed in Phases 1 and 3 by implementing Intra-hour energy transaction scheduling capabilities with ISO-NE. The 2008 and 2009 State of the Market recommendation #2 is, "NYISO continue its work with neighboring control areas to better utilize the transfer capability between regions."</p> <p>Deliverables: The focus of this project in 2011 is to develop the functional requirements and complete the tariff filing in 4th Q 2011.</p>
Market to Market Coordination - PJM	<p>Status: In late-2006, PJM approached NYISO, interested in developing a program to allow inter-control area dispatch to help manage congestion. PJM has implemented a program with MISO. In 2007, NYISO initiated discussions with PJM to further understand the MISO program and begin to outline a conceptual straw proposal for a similar program between PJM and NY. NYISO has continued to define the details of a Market to Market (formerly known as Congestion Management) protocol between NYISO and PJM. In 2009, NYISO worked with PJM and NYISO stakeholders to develop a Market to Market protocol. Protocol development was not completed in 2009. The question of entitlement rights on coordinated flowgates could not be addressed until the NYISO had developed or procured a market flow calculator. The December 30, 2010 FERC Order regarding the NYISO's Lake Erie Loop Flow response directs the NYISO to implement market to market with PJM faster than originally planned.</p> <p>Deliverables: In 2011 the NYISO will implement the market flow calculator necessary for this project. The deployment of this project is scheduled for 4th Q 2012.</p>
Interface Pricing (PAR Modeling Upgrades)	<p>Status: PAR Modeling Upgrades is a Broader Regional Markets initiative that modifies how power flows are represented on the SCUC, RTC and RTD models. This requires changes to the current PAR modeling techniques used by SCUC, RTC and RTD, where PARs will need to be modeled as free flow devices for the purposes of pricing and dispatch, but also provide the ability to offset the PAR schedules with an injection or withdrawal to represents extrinsic power flow effects like Lake Erie Loop Flow.</p> <p>Deliverables: This project is targeted for deployment in October 2011.</p>
Scheduling and Pricing: Regulation Ramp	<p>Status: Today, some generators have a physical limitation on the regulation that can be provided within certain unit operating ranges. This project will allow generators to specify different regulation response rates for different energy output levels, similarly to the three energy response rates allowed today. With these additional regulation response rates, SCUC, RTC, RTD and AGC will know how best to co-optimize the output of a generating unit while meeting the physical operating characteristics of that unit. Additionally, these responses rates will still need to be maintained at a rate that is equal to or lower than the energy response rate. An alternative solution may be to create a distinct regulation upper limit.</p> <p>Deliverables: The focus of this project in 2011 is to develop a market design concept in 4th Q 2011.</p>



2011 Major Product Enhancements

Project	Status and Milestone Deliverables
Enterprise Technology Products	
Enterprise Data Storage Migration	<p>Status: This project focuses on migrating from leased storage hardware onto purchased storage hardware with a longer lifespan that can be upgraded with minimal disruptions to the organization. This new storage hardware supports increased performance and storage requirements, which are required for upcoming market design and Smart Grid initiatives. The hardware migration was successfully completed in September.</p> <p>Deliverables: The hardware migration is scheduled for completion in 3rd Q 2011.</p>
Identity and Access Management	<p>Status: This project continues the roadmap initiated in 2010. This project will help address NERC Critical Infrastructure Protection (CIP) compliance requirements and deliver a foundation for enterprise-wide identity and access management. Technical controls and workflows will manage employee user identities and access rights to widely used critical cyber assets defined by NERC CIP. The solution will provide reporting and visibility to current access entitlements and immediate revocation of rights on employee exit. Changes were successfully deployed in August.</p> <p>Deliverables: The focus of this project in 2011 is the implementation of the functionality to automate the controls and management of employer user identities and access rights. Implementation is scheduled for 3rd Q 2011.</p>
Ranger Hardware Migration	<p>Status: This project focuses on migrating from leased servers onto purchased servers for the benefits of a scalable solution that can be upgraded with minimal disruptions to the organization, extends the lifespan of the Ranger platform, and enables software performance tuning to support data volumes anticipated with future market initiatives.</p> <p>Deliverables: The hardware migration was successfully completed. This project is now complete.</p>
Finance Products	
Bid Production Cost Guarantee Enhancements	<p>Status: These changes were requested as part of the Strategic Tariff review and specifically impact the Day Ahead and Real Time Bid Production Cost Guarantee (BPCG) calculations with respect to Bilateral transactions and RT BPCG for regulation providers. Modifications are needed to the DA and RT BPCG calculations for generators with bilateral transactions to use implied revenues based on LBMPs and actual bid costs; and, start up costs need to be included in the calculation of BPCG regardless of the existence of bilateral transactions. Modification needed to the RT BPCG calculations for generators providing RT regulation that do not have a DA schedule for energy to include both the cost and revenue components associated with Incremental energy from the units Min Gen to Min Gen plus scheduled regulation MW's. The incremental energy costs are currently not included in the calculation. Software changes were successfully deployed in June. This project is complete.</p> <p>Deliverables: The focus of this project is the implementation of the software changes needed to support the market rule changes to be approved by Stakeholders, the Board, and FERC. Implementation is scheduled for 2nd Q 2011.</p>
Consolidated Invoice Redesign	<p>Status: This is a multi-year project focused on implementing weekly invoicing in compliance with FERC Order 741 and replacing old technology. This project will include modifications to Consolidated Invoice, Credit Management System,</p>



2011 Major Product Enhancements

Project	Status and Milestone Deliverables
<hr/>	
	<p>Oracle Financials and Finance Department processes, and the Customer Settlements Data Mart to support flexible invoicing. This project was successfully deployed in August. This project is complete.</p>
	<p>Deliverables: This project will implement the software needed to support a shortened settlement cycle and other credit reforms included in FERC Order #741. Implementation is scheduled for 3rd Q 2011 to support production of the first weekly invoice October 12, 2011.</p>
<hr/> <h3>Operations & Reliability Products</h3>	
Dynamic Pricing	<p>Status: This project will make available LBMP data directly to the Transmission Owners in support of on-going Smart Grid efforts. Today TOs must gather LBMP data from the NYISO web.</p> <p>Deliverables: The focus of this project in 2011 is the development of an architectural design specification in 4th Q 2011.</p>
Operational Tools and Enhancements	<p>Status: The focus of this project is to provide the tools necessary to improve NYISO Operations' analytical capabilities for purposes of improving reliability. There are several initiatives, including support for continuing to provide NERC IDC mandated data exchanges to meet NERC and NASB standards. Existing manual processes used by Security Constrained Unit Commitment (SCUC) Engineers in determining Day Ahead Market (DAM) Unit Commitment will be reviewed and automated where possible.</p> <p>Deliverables: Two deployments are scheduled, one for June and one for October, to implement the prioritized functionality.</p>
Ranger Enhancements for Optimization and Performance	<p>Status: Over the next few years, projects like Disaggregated Virtual Trading and the Broader Regional Market initiatives are expected to significantly increase data and transaction volumes processed in the Ranger system. This project aims to analyze and deploy optimization requirements from ABB that are appropriate to improve processing. The primary focus will be on optimization of processing time.</p> <p>Deliverables: The focus of this project for 2011 is the completion of an architectural design specification in 4th Q 2011.</p>
Reference Level Software Enhancements	<p>Status: This project will focus on enhancing the Reference Level Software (RLS) application that was implemented in November 2010. The enhancements to the RLS application will focus on automating manual processes and providing long term monitoring tools to Market Mitigation and Analysis. Software changes were successfully deployed in June. This project is complete.</p> <p>Deliverables: The implementation of these prioritized enhancements is scheduled for 2nd Q 2011.</p>
Reliability Commitment Transparency	<p>Status: This project will provide Dispatchers with a drop down list of available Application of Reliability Rules (ARR) to select the ARR in effect when TOs call to inform dispatchers of a Day Ahead Reliability Unit (DARU). Software changes</p>



2011 Major Product Enhancements

Project	Status and Milestone Deliverables
<hr/>	
	<p>were deployed in June. This project is complete.</p> <p>Deliverables: Implementation of this functionality is scheduled for 2nd Q 2011.</p>
Planning and TCC Market Products	
TCC Multi-Duration and Balance of Period Centralized Auction	<p>Status: This project continues the 2010 efforts to provide for TCC Auction 'End State' functionality; in 2010 NYISO implemented functionality for MPs to sell TCCs in any round. Continuing efforts will focus on the implementation of Non-Historic Long Term Fixed Price TCCs, multi-duration capability period auctions, and balance of period TCCs. Consistent with NYISO's response to a FERC Order, NYISO is planning a June 2013 implementation to support offering Non-Historic Long Term Fixed Price TCCs beginning with the Autumn 2012 Capability Period Auction. NYISO completed the functional requirements specifications in June as planned.</p> <p>Deliverables: The focus of this project is the completion of the functional requirements specifications for all of the functionality in 2nd Q 2011.</p>
High Performance Computing for Planning Studies	<p>Status: This is a project to put in place the infrastructure required to enable System Resource Planning to conduct large, data intensive planning studies. The solution for MARs was successfully deployed in August. Phase I of this project is complete.</p> <p>Deliverables: The focus of this project in 2011 is the implementation of the solution in 4th Q 2011.</p>
Siemen's PTI Model-on-Demand Phase II	<p>Status: The second phase of this project will focus on maintenance and consulting for implementation of the Siemens PTI Model-on-Demand (MOD) web portal, which will allow TOs and MPs to review and approve data in a structured, interactive manor. The architectural design specification was reviewed and approved by IT in September.</p> <p>Deliverables: The focus of this project in 2011 is the completion of the architectural design specification in 3rd Q 2011.</p>

Summary Description of FERC Regulatory Filings, Investigations and Rulemakings and Related Orders in NYISO Matters September 2011

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
1/4/2011	NYISO and NYTOs, Compliance Filing Proposing Criteria to Govern the Potential Creation of New Locational Capacity Zones.	ER04-449-023	09/08/2011	FERC order accepting in part and rejecting in part NYISO's proposed criteria and directing NYISO to file appropriate tariff revisions and a report regarding the feasibility of creating new zones on an annual basis	Accepted – Compliance Rqrd
3/29/2011	NYISO Compliance Filing re: Tariff revisions and supporting documents regarding ICAP Demand Curves	ER11-2224-004	09/15/2011	FERC order accepting 6/20/11 filing, rejecting 3/29 and 3/30 filings as superseded and moot and directing further compliance	Rejected favorable
3/30/2011	NYISO filing of a Record Supplement to its March 29, 2011 ICAP Demand Curves Compliance Filing	ER11-2224-005	09/15/2011	FERC order accepting 6/20/11 filing, rejecting 3/29 and 3/30 filings as superseded and moot and directing further compliance	Rejected favorable
6/20/2011	NYISO Compliance Filing of ICAP demand curve tariff revisions	ER11-2224-009	09/15/2011	FERC order accepting 6/20/11 filing, rejecting 3/29 and 3/30 filings as superseded and moot and directing further compliance	Accepted – Compliance Rqrd
6/30/2011	NYISO Compliance filing of tariff revisions re: Order no. 741, credit reforms	ER11-3949-000, RM10-13	09/15/2011	FERC order conditionally accepting tariff revisions filed in response to directives in Order Nos. 741 and 741-A	Accepted – Compliance Rqrd
6/30/2011	NYISO Compliance filing of revisions to the ISO agreement re: Order no. 741, credit reforms	ER11-3951-000, RM10-13	09/15/2011	FERC order conditionally accepting tariff revisions filed in response to directives in Order Nos. 741 and 741-A	Accepted – Compliance Rqrd
7/05/2011	NYISO errata re: tariff sections, which were inadvertently not filed with its June 30 compliance filing regarding Order No. 741, to complete the record	ER11-3949-001	09/15/2011	FERC order conditionally accepting tariff revisions filed in response to directives in Order Nos. 741 and 741-A	Accepted – Compliance Rqrd
7/15/2011	NYISO filing of LGIA among NYISO, NYPA and Marble River	ER11-4056-000	09/02/2011	FERC letter order accepting LGIA effective 6/29/11	Accepted
7/29/2011	NYISO filing of notice regarding price corrections and request for limited tariff waiver	ER11-4141-000	09/01/2011	FERC letter order granting waiver	Accepted

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
8/5/2011	NYISO motion to intervene and comment supporting Ravenswood request for black start waiver	ER11-4200-000	09/27/2011	FERC order accepting Ravenswood amendment to original waiver request & denying its request for waiver of testing requirement & denying NYISO's waiver request	Rejected - unfavorable
8/8/2011	NYISO 205 filing of proposed tariff clarifications regarding bidding, scheduling, and settlement of ancillary services	ER11-4257-000	09/28/2011	FERC letter order accepting revisions effective 10/7/11	Accepted
8/10/2011	NYISO 205 filing re: Grandfathered TCC rights	ER11-4274-000	09/16/2011	FERC letter order accepting revisions effective 10/9/11	Accepted
8/15/2011	NYISO, ISONE, CAISO joint motion requesting extension of compliance filing date re: Order 741 market obligations in bankruptcy	RM10-13-000	09/13/2011	FERC notice granting extension until 1/31/12	Accepted
8/15/2011	NYISO 205 filing re: ministerial Operations-related revisions	ER11- 4313 -000	09/13/2011	FERC letter order accepting filing effective 10/14/11	Accepted
8/16/2011	NYISO compliance filing re: annual report on centralized wind forecasting program	ER08-850-002	09/16/2011	FERC letter order accepting report for informational purposes	Accepted
9/2/2011	NYISO Motion in Opposition of TC Ravenswood's Amendment and, in the Alternative, Answer and Motion Seeking Waiver of Tariff Requirements Regarding Black Start Service	ER11-4200-000	09/27/2011	FERC order accepting Ravenswood amendment to original waiver request & denying its request for waiver of testing requirement & denying NYISO's waiver request	Rejected - unfavorable
9/8/2011	NYISO Supplemental Answer public version re: buyer side mitigation	EL11-50-000			
9/8/2011	NYISO's Notice Regarding Certain Procedures Under the Protective Order, developed collaboratively by the NYISO, Complainants, Astoria Energy II ("AEII"), the Bayonne Energy Center ("BEC"), and IPPNY	EL11-50-000			
9/12/2011	NYISO compliance filing re: confidential rules of data sharing framework with States PSCs/ISOs and MMUs in comply with August 19, 2011 Commission's order	ER11-3312-001			
9/12/2011	NYISO filing of a correction to the supplemental answer it filed on 9/8/11	EL11-50-000			

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
9/13/2011	NYISO filing of errata to the August 12, 2011 filing regarding Voltage Support Service	ER11-4303-001			
9/16/2011	NYISO compliance filing to correct EITC formula (remove parenthesis) ST section 25.6.2	ER11-2547-004			
9/19/2011	NYISO filing re: Notice of Lists designated as Reviewing Representatives for Highly Sensitive Protected Materials, pursuant to terms of the protective order and where necessary, as agreed upon by the NYISO, AEII and BEC.	EL11-50-000			
9/21/2011	NYISO filing of tariff revisions in compliance with a 1000 MW Contract settlement agreement with PJM	ER08-867-000, ER11-4585-000			
9/22/2011	NYISO filing of a supplement to the 9/19/11 list of Reviewing Representatives	EL11-50-000			
9/22/2011	NYISO compliance filing of ICAP Demand Curve tariff revisions	ER11-2224-010			
9/23/2011	NYISO filing of a second supplement to the 9/19/11 list of Reviewing Representatives to include an attachment containing email addresses	EL11-50-000			
9/23/2011	205 filing of an LGIA among NYISO, NiMo, NYSEG, and Nine Mile Point	ER11-4621-000			
9/26/2011	NYISO filing of an answer to motions to intervene and protests regarding its compliance filing in the Order No. 745 (Demand Response) proceeding	ER11-4338-000			
9/28/2011	Section 205 filing of tariff revisions regarding penalties for voltage service suppliers	ER11-4664-000			