

# Monthly Report

May 2012

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# Operations Performance Metrics Monthly Report



# May 2012 Report

# **Operations & Reliability Department New York Independent System Operator**



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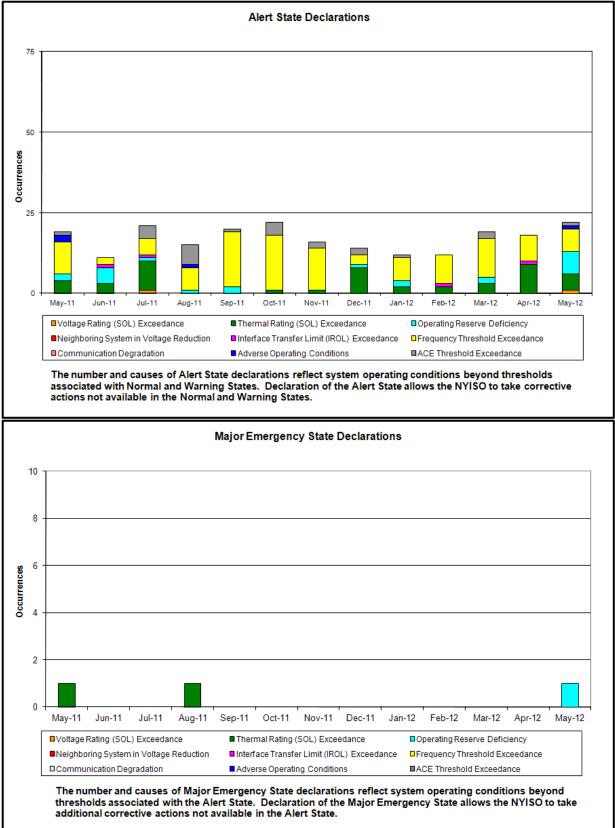


## May 2012 Operations Performance Highlights

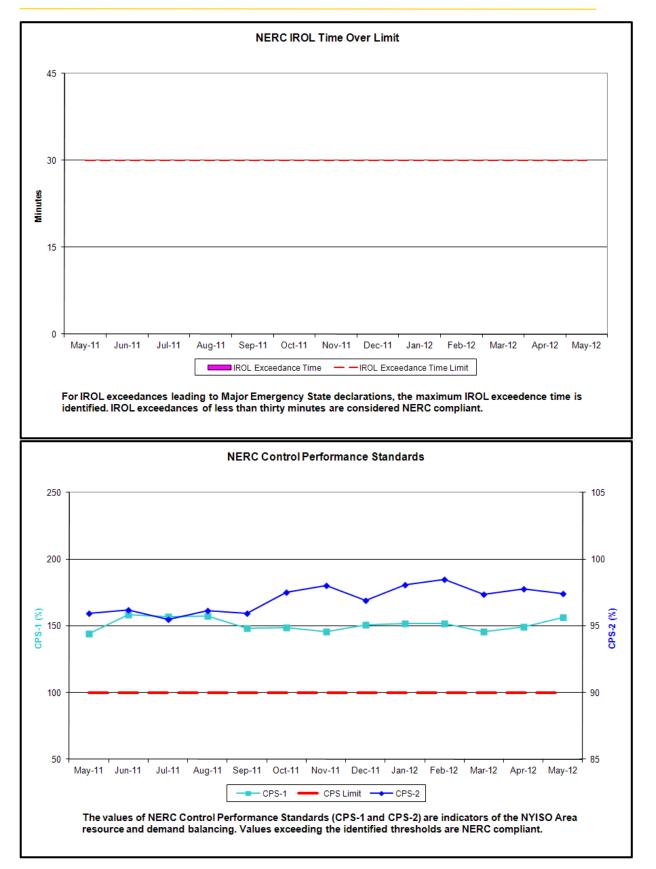
- Peak load of 28,242 MW occurred on 5/29/2012 HB 12
- All-time summer capability period peak load of 33,939 MW occurred on 8/2/2006 HB13
- 34 hours of Thunder Storm Alerts were declared
- 81 hours of NERC TLR level 3 curtailments
- EDRP/SCR resources were activated on 5/29/2012



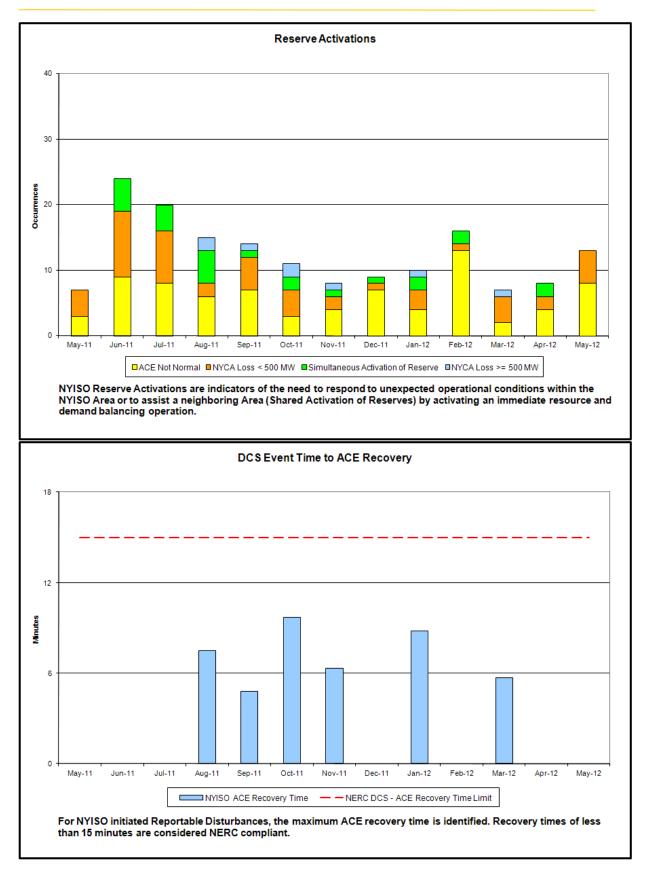
#### **Reliability Performance Metrics**



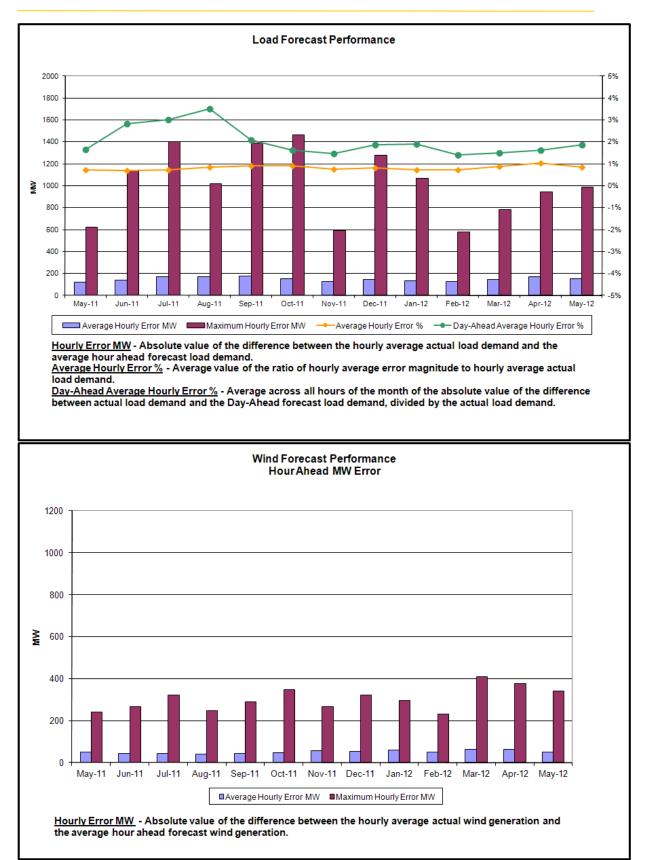




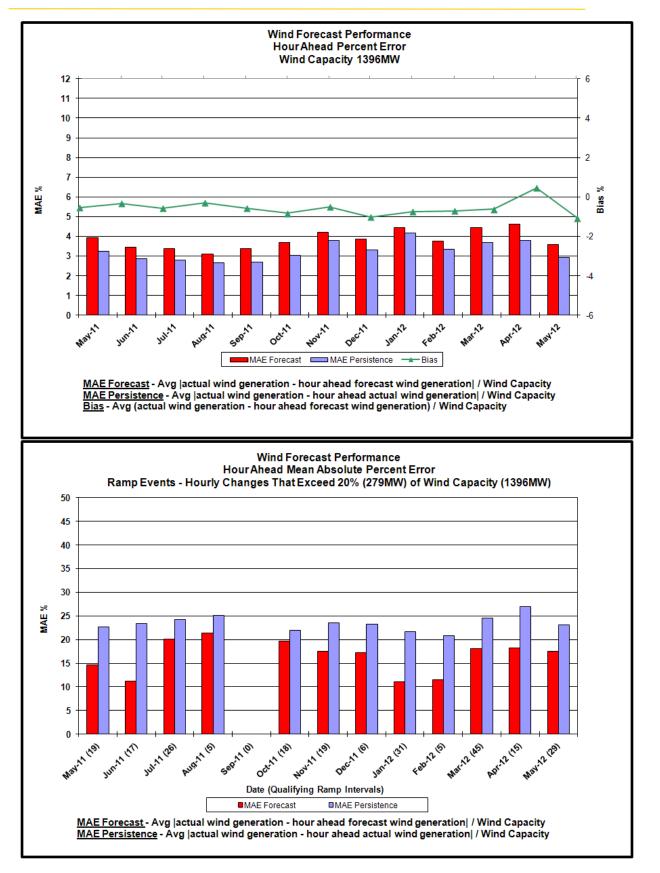




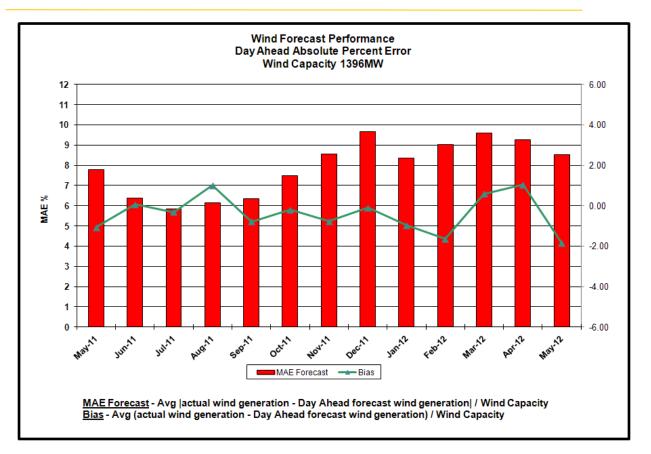




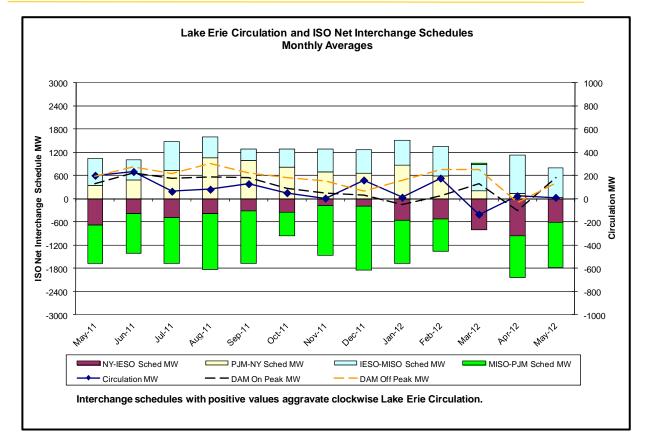


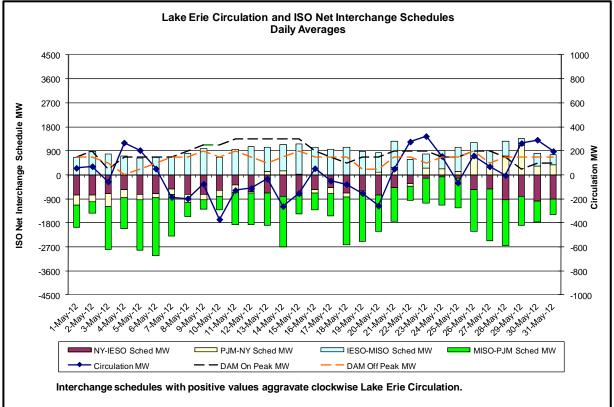






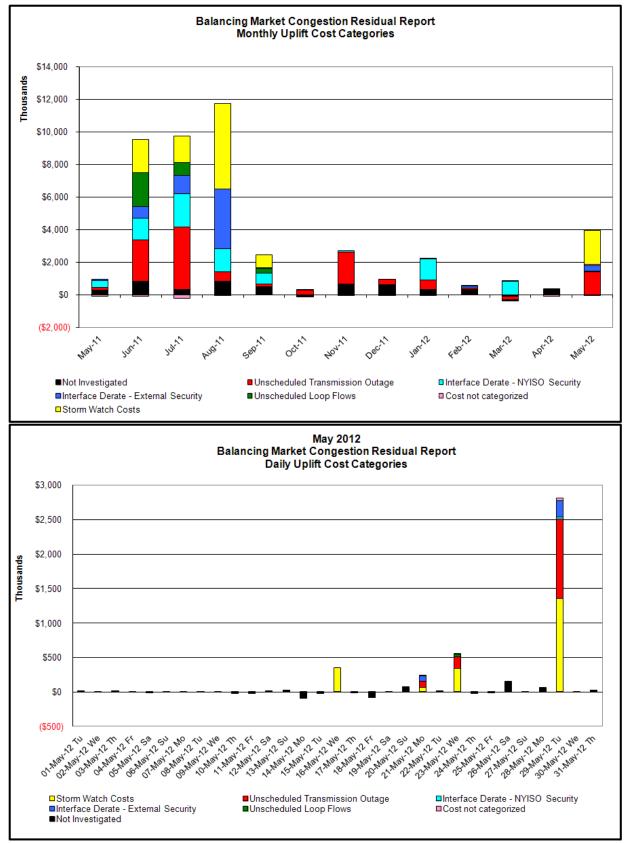








#### **Market Performance Metrics**





vent	Date (yyyymm Ho	ours	Description	
	5/16/2012	14-20	Thunder Storm Alert	
	5/21/2012	10-13	Thunder Storm Alert	
	5/21/2012	10-12,15,16	Extended outage Willowbrook-Freshkills 138kV (#29211-2)	
	5/21/2012	14	PJM DNI Ramp Limit	
	5/21/2012	10,11	IESO_AC - NY Scheduling Limit	
	5/21/2012	12,14-16	NE_AC - NY Scheduling Limit	
	5/23/2012	13-18	Thunder Storm Alert	
	5/23/2012	9-13	Forced outage Leeds-Hurley Avenue 345kV (#301)	
	5/23/2012	12,13	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Leeds-Pleasant Valley (#92)	
	5/29/2012		Thunder Storm Alert	
	5/29/2012		Forced outage Hellgate-East 179th St 138kV (#15054), Hellgate-Astoria East 138kV (#34052)	
	5/29/2012		Uprate Dunwoodie-Shore Road 345kV (#Y50) for SCB Sprainbrook RNS2 W/ RNS4 OUT	
	5/29/2012		NYCA DNI Ramp Limit	
	5/29/2012		NE_AC - NY Scheduling Limit	
	5/29/2012	12	IESO_AC - NY Scheduling Limit	

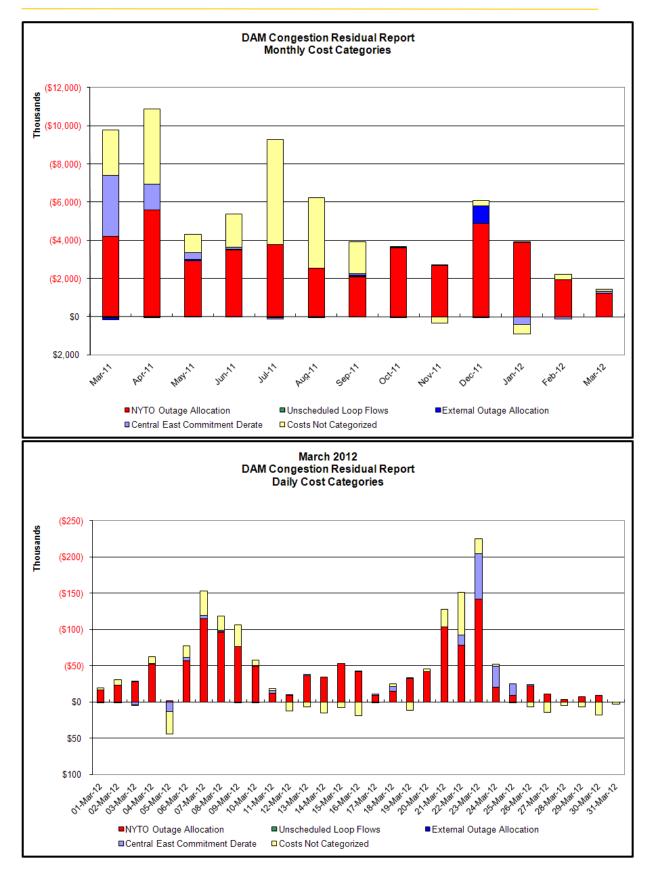
#### Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

<u>Category</u> Storm Watch	<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	<u>Event Examples</u> 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		<u>1s/Notes</u>	
Unscheduled Loop Flows	Market-wide	related to External Control Area Security Events Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	External Transaction Curtailments DAM to RTM Clockwise Lake Erie Loop Flows

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.



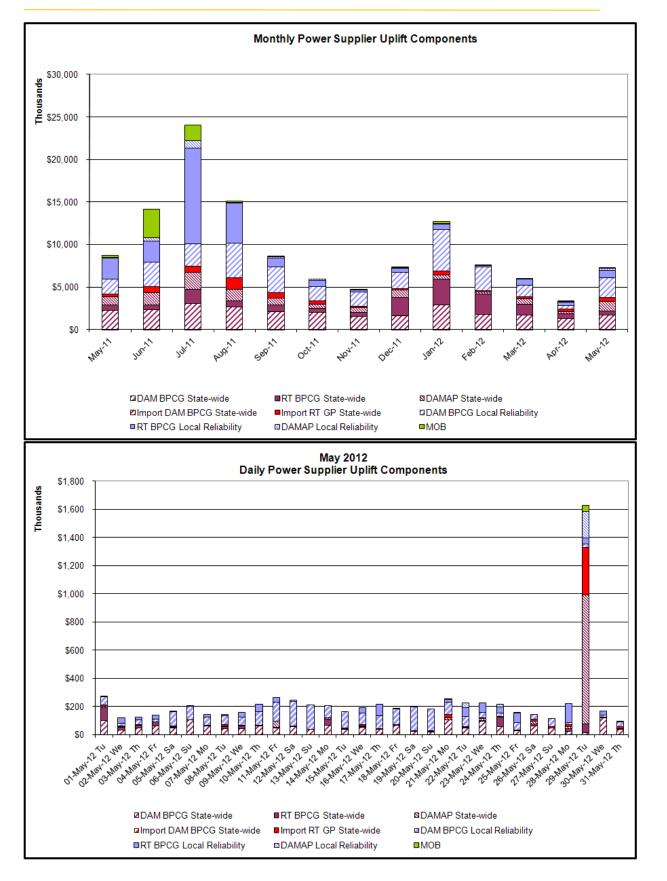




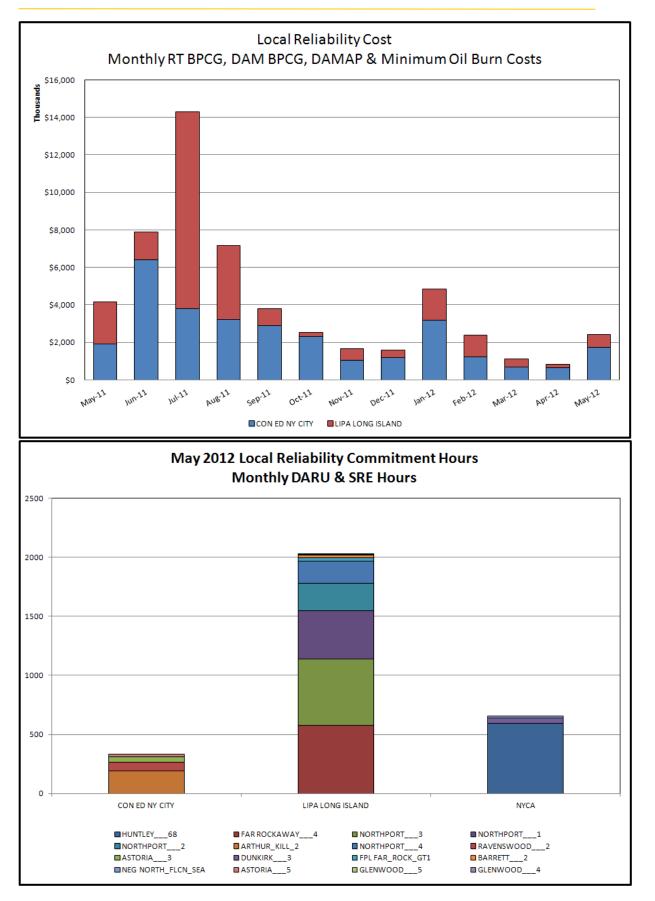
#### Day-Ahead Market Congestion Residual Categories

<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	<u>Event Examples</u> 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.	

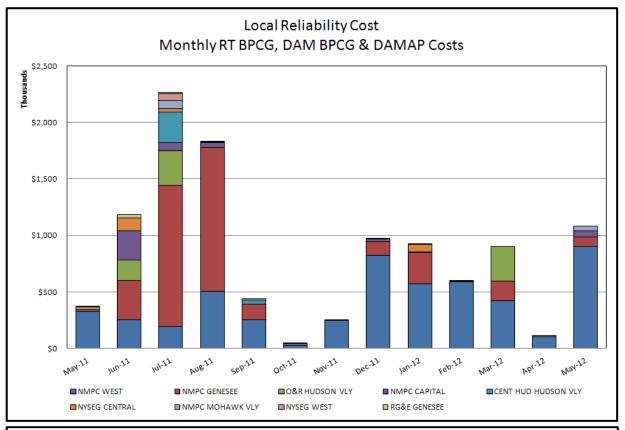


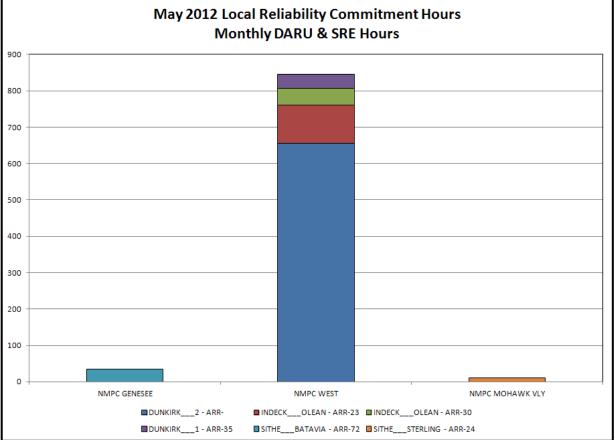




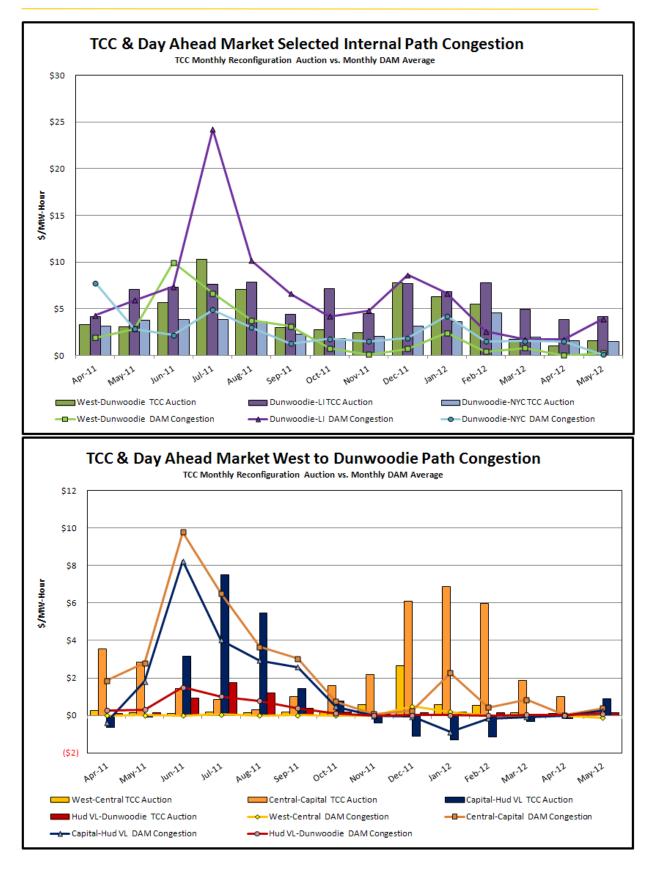




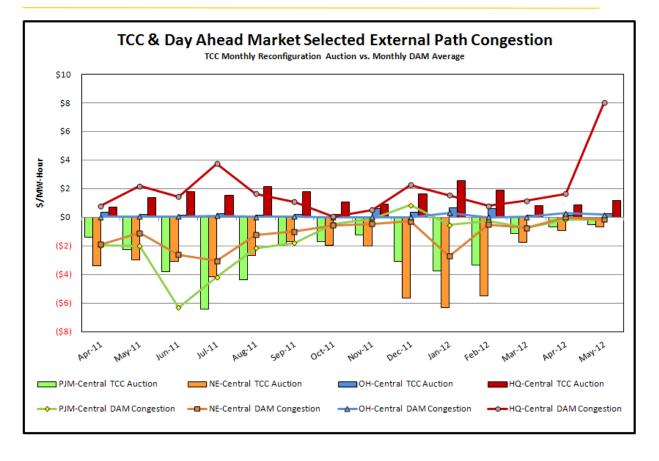




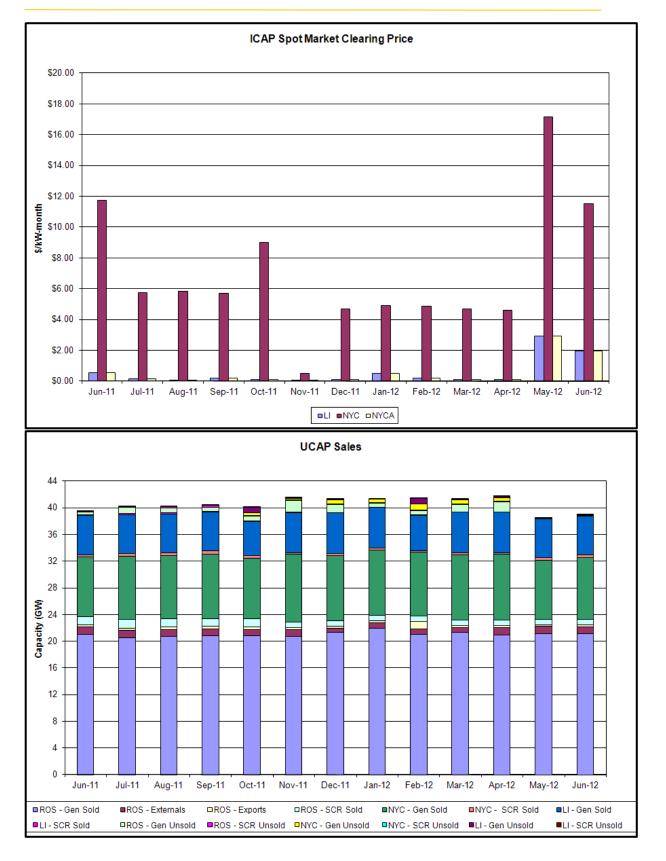






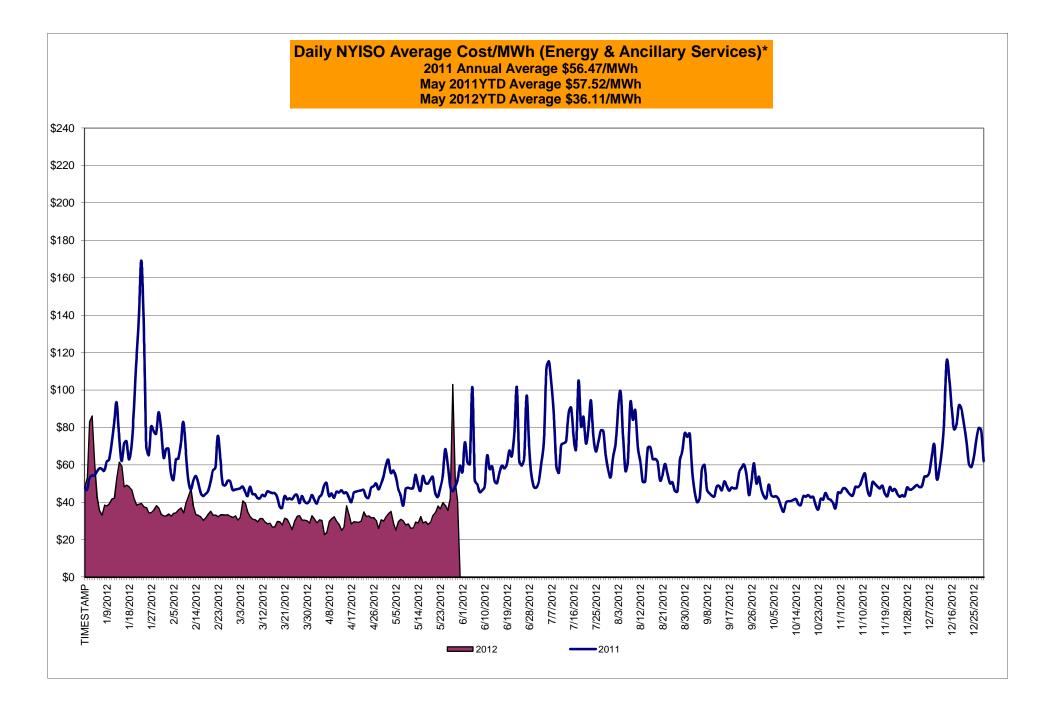






# Market Performance Highlights for May 2012

- LBMP for May is \$34.66MWh, higher compared to \$28.30/MWh in April 2012.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to April 2012.
- Average monthly year-to-date cost of \$36.11/MWh, is comparable to the previous month, \$36.05/MWh.
- Average daily sendout is 420 GWh/day in May; higher compared to 396 GWh/day in April 2012 and 411 GWh/day in May 2011.
- Natural gas is up but distillate prices are down compared to the previous month.
  - Natural Gas is \$2.59/MMBtu, up from \$2.13/MMBtu in April.
  - Kerosene is \$22.74/MMBtu, down from \$24.32/MMBtu in April.
  - No. 2 Fuel Oil is \$20.83/MMBtu, down from \$22.45/MMBtu in April.
  - No. 6 Fuel Oil is \$18.24/MMBtu, down from \$20.37/MMBtu in April.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.26)/MWh, lower than (\$0.18)/MWh in April.
    - The Local Reliability Share is \$0.24/MWh, significantly higher than \$0.07/MWh in April.
    - The Statewide Share is (\$0.50)/MWh, significantly lower than (\$0.26)/MWh in April.
  - TSA \$ per NYC MWh is \$3.15/MWh.
  - Total uplift (Schedule 1 components including NYISO Cost of Operations) is higher than April due to increased Local Reliability DAM and Residual Balancing uplift costs.

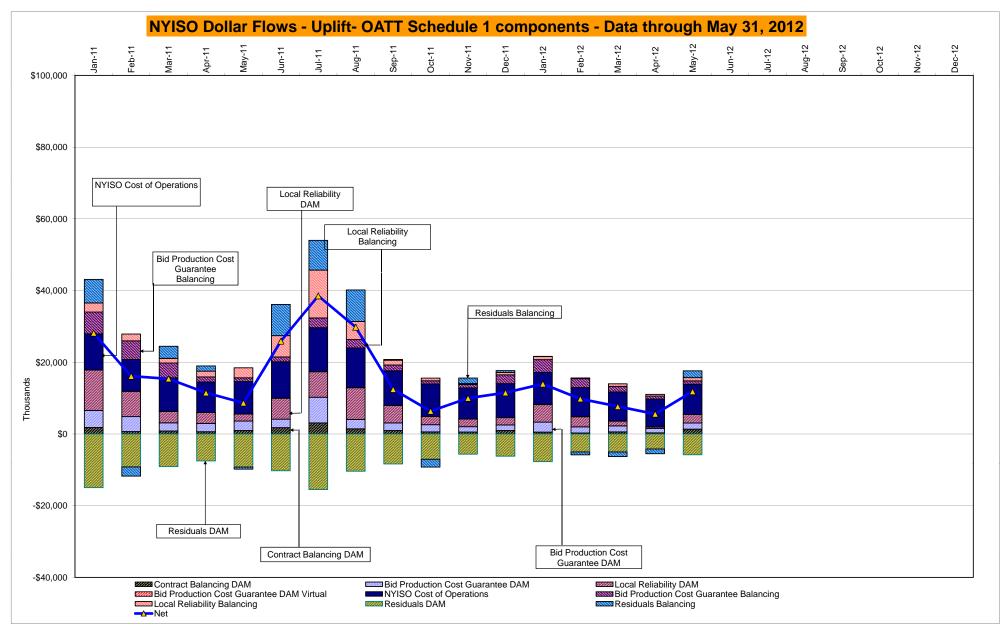


\* Excludes ICAP payments.

2012	January	February	March	April	May	June	July	August	<u>September</u>	October	November	<u>December</u>
LBMP	44.00	32.44	28.98	28.30	34.66							
NTAC	0.85	0.80	0.68	0.71	0.72							
Reserve	0.35	0.25	0.38	0.32	0.13							
Regulation	0.10	0.08	0.13	0.12	0.09							
NYISO Cost of Operations	0.64	0.64	0.64	0.64	0.64							
Uplift	0.36	0.13	(0.03)	(0.18)	(0.26)							
Uplift: Local Reliability Share	0.41	0.24	0.16	0.07	0.24							
Uplift: Statewide Share	(0.05)	(0.10)	(0.19)	(0.26)	(0.50)							
Voltage Support and Black Start	0.37	0.37	0.37	0.37	0.37							
Avg Monthly Cost	46.67	34.72	31.15	30.28	36.35							
Avg YTD Cost	46.67	41.05	37.91	36.05	36.11							
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	3.15							
2014	I	<b>F</b> . 1	Manak	A				<b>A</b>	Oraclassi	Ostalasa	N	Desertes
2011	January	February	March	<u>April</u>	<u>May</u>	June	July	August	September	October	November	December
LBMP	74.91	55.60	46.98	46.44	48.49	60.33	75.76	56.04	46.86	42.49	38.97	39.73
LBMP NTAC	74.91 0.62	55.60 0.75	46.98 0.86	46.44 0.81	48.49 1.13	60.33 1.22	75.76 0.66	56.04 0.60	46.86 0.43	42.49 0.56	38.97 0.62	39.73 0.69
LBMP NTAC Reserve	74.91 0.62 0.44	55.60 0.75 0.50	46.98 0.86 0.41	46.44 0.81 0.43	48.49 1.13 0.48	60.33 1.22 0.28	75.76 0.66 0.28	56.04 0.60 0.13	46.86 0.43 0.25	42.49 0.56 0.41	38.97 0.62 0.26	39.73 0.69 0.28
LBMP NTAC Reserve Regulation	74.91 0.62 0.44 0.20	55.60 0.75 0.50 0.18	46.98 0.86 0.41 0.15	46.44 0.81 0.43 0.12	48.49 1.13 0.48 0.10	60.33 1.22 0.28 0.15	75.76 0.66 0.28 0.12	56.04 0.60 0.13 0.09	46.86 0.43 0.25 0.08	42.49 0.56 0.41 0.09	38.97 0.62 0.26 0.08	39.73 0.69 0.28 0.09
LBMP NTAC Reserve Regulation NYISO Cost of Operations	74.91 0.62 0.44 0.20 0.70	55.60 0.75 0.50 0.18 0.70	46.98 0.86 0.41 0.15 0.70	46.44 0.81 0.43 0.12 0.70	48.49 1.13 0.48 0.10 0.70	60.33 1.22 0.28 0.15 0.70	75.76 0.66 0.28 0.12 0.70	56.04 0.60 0.13 0.09 0.70	46.86 0.43 0.25 0.08 0.70	42.49 0.56 0.41 0.09 0.70	38.97 0.62 0.26 0.08 0.70	39.73 0.69 0.28 0.09 0.70
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift	74.91 0.62 0.44 0.20 0.70 1.26	55.60 0.75 0.50 0.18 0.70 0.58	46.98 0.86 0.41 0.15 0.70 0.45	46.44 0.81 0.43 0.12 0.70 0.21	48.49 1.13 0.48 0.10 0.70 (0.02)	60.33 1.22 0.28 0.15 0.70 0.61	75.76 0.66 0.28 0.12 0.70 1.42	56.04 0.60 0.13 0.09 0.70 0.65	46.86 0.43 0.25 0.08 0.70 0.15	42.49 0.56 0.41 0.09 0.70 (0.21)	38.97 0.62 0.26 0.08 0.70 0.11	39.73 0.69 0.28 0.09 0.70 0.15
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: Local Reliability Share	74.91 0.62 0.44 0.20 0.70 1.26 0.95	55.60 0.75 0.50 0.18 0.70 0.58 0.71	46.98 0.86 0.41 0.15 0.70 0.45 0.33	46.44 0.81 0.43 0.12 0.70 0.21 0.38	48.49 1.13 0.48 0.10 0.70 (0.02) 0.36	60.33 1.22 0.28 0.15 0.70 0.61 0.82	75.76 0.66 0.28 0.12 0.70 1.42 1.19	56.04 0.60 0.13 0.09 0.70 0.65 0.87	46.86 0.43 0.25 0.08 0.70 0.15 0.45	42.49 0.56 0.41 0.09 0.70 (0.21) 0.23	38.97 0.62 0.26 0.08 0.70 0.11 0.19	39.73 0.69 0.28 0.09 0.70 0.15 0.19
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: Local Reliability Share Uplift: Statewide Share	74.91 0.62 0.44 0.20 0.70 1.26 0.95 0.31	55.60 0.75 0.50 0.18 0.70 0.58 0.71 (0.12)	46.98 0.86 0.41 0.15 0.70 0.45 0.33 0.12	46.44 0.81 0.43 0.12 0.70 0.21 0.38 (0.18)	48.49 1.13 0.48 0.10 0.70 (0.02) 0.36 (0.38)	60.33 1.22 0.28 0.15 0.70 0.61 0.82 (0.21)	75.76 0.66 0.28 0.12 0.70 1.42 1.19 0.24	56.04 0.60 0.13 0.09 0.70 0.65 0.87 (0.21)	46.86 0.43 0.25 0.08 0.70 0.15 0.45 (0.30)	42.49 0.56 0.41 0.09 0.70 (0.21) 0.23 (0.44)	38.97 0.62 0.26 0.08 0.70 0.11 0.19 (0.08)	39.73 0.69 0.28 0.09 0.70 0.15 0.19 (0.05)
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	74.91 0.62 0.44 0.20 0.70 1.26 0.95 0.31 0.37	55.60 0.75 0.50 0.18 0.70 0.58 0.71 (0.12) 0.37	46.98 0.86 0.41 0.15 0.70 0.45 0.33 0.12 0.37	46.44 0.81 0.43 0.12 0.70 0.21 0.38 (0.18) 0.37	48.49 1.13 0.48 0.10 0.70 (0.02) 0.36 (0.38) 0.37	60.33 1.22 0.28 0.15 0.70 0.61 0.82 (0.21) 0.37	75.76 0.66 0.28 0.12 0.70 1.42 1.19 0.24 0.37	56.04 0.60 0.13 0.09 0.70 0.65 0.87 (0.21) 0.37	46.86 0.43 0.25 0.08 0.70 0.15 0.45 (0.30) 0.37	42.49 0.56 0.41 0.09 0.70 (0.21) 0.23 (0.44) 0.37	38.97 0.62 0.26 0.08 0.70 0.11 0.19 (0.08) 0.37	39.73 0.69 0.28 0.09 0.70 0.15 0.19 (0.05) 0.37
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: Local Reliability Share Uplift: Statewide Share	74.91 0.62 0.44 0.20 0.70 1.26 0.95 0.31	55.60 0.75 0.50 0.18 0.70 0.58 0.71 (0.12)	46.98 0.86 0.41 0.15 0.70 0.45 0.33 0.12	46.44 0.81 0.43 0.12 0.70 0.21 0.38 (0.18)	48.49 1.13 0.48 0.10 0.70 (0.02) 0.36 (0.38)	60.33 1.22 0.28 0.15 0.70 0.61 0.82 (0.21)	75.76 0.66 0.28 0.12 0.70 1.42 1.19 0.24	56.04 0.60 0.13 0.09 0.70 0.65 0.87 (0.21)	46.86 0.43 0.25 0.08 0.70 0.15 0.45 (0.30)	42.49 0.56 0.41 0.09 0.70 (0.21) 0.23 (0.44)	38.97 0.62 0.26 0.08 0.70 0.11 0.19 (0.08)	39.73 0.69 0.28 0.09 0.70 0.15 0.19 (0.05)
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	74.91 0.62 0.44 0.20 0.70 1.26 0.95 0.31 0.37	55.60 0.75 0.50 0.18 0.70 0.58 0.71 (0.12) 0.37	46.98 0.86 0.41 0.15 0.70 0.45 0.33 0.12 0.37	46.44 0.81 0.43 0.12 0.70 0.21 0.38 (0.18) 0.37	48.49 1.13 0.48 0.10 0.70 (0.02) 0.36 (0.38) 0.37	60.33 1.22 0.28 0.15 0.70 0.61 0.82 (0.21) 0.37	75.76 0.66 0.28 0.12 0.70 1.42 1.19 0.24 0.37	56.04 0.60 0.13 0.09 0.70 0.65 0.87 (0.21) 0.37	46.86 0.43 0.25 0.08 0.70 0.15 0.45 (0.30) 0.37	42.49 0.56 0.41 0.09 0.70 (0.21) 0.23 (0.44) 0.37	38.97 0.62 0.26 0.08 0.70 0.11 0.19 (0.08) 0.37	39.73 0.69 0.28 0.09 0.70 0.15 0.19 (0.05) 0.37

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

\* Excludes ICAP payments.



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.

				<u>IN 1</u>	150 Mark	tets Trans	actions					
2012	<u>January</u>	February	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	September	October	November	December
Day Ahead Market MWh	14,877,279	13,473,786	13,590,456	12,482,692	13,324,441							
DAM LSE Internal LBMP Energy Sales	58%	57%	58%	59%	61%							
DAM External TC LBMP Energy Sales	1%	1%	0%	1%	1%							
DAM Bilateral - Internal Bilaterals	38%	40%	40%	38%	36%							
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	2%	2%	2%	1%							
DAM Bilateral - Wheel Through Bilaterals	1%	0%	1%	1%	1%							
Balancing Energy Market MWh	-878,258	-814,169	-896,046	-374,825	-31,291							
Balancing Energy LSE Internal LBMP Energy Sales	-110%	-111%	-110%	-126%	-563%							
Balancing Energy External TC LBMP Energy Sales	9%	7%	7%	19%	348%							
Balancing Energy Bilateral - Internal Bilaterals	1%	1%	1%	4%	107%							
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	4%	3%	3%	6%	54%							
Balancing Energy Bilateral - Wheel Through Bilaterals	-3%	0%	-1%	-4%	-47%							
Transactions Summary												
LBMP	57%	56%	55%	59%	61%							
Internal Bilaterals	41%	42%	43%	39%	36%							
Import Bilaterals	0%	0%	0%	0%	0%							
Export Bilaterals	2%	2%	2%	2%	2%							
Wheels Through	1%	0%	1%	1%	1%							
Market Share of Total Load												
Day Ahead Market	106.3%	106.4%	107.1%	103.1%	100.2%							
Balancing Energy +	-6.3%	-6.4%	-7.1%	-3.1%	-0.2%							
Total MWH	13,999,021	12,659,617	12,694,410	12,107,867	13,293,151							
Average Daily Energy Sendout/Month GWh	443	431	407	396	420							
2011	January	February	March	April	May	June	<u>July</u>	August	September	October	November	December
2011	January											
Day Ahead Market MWh	14,146,283		13,164,026	12,191,562	12,809,240	14,520,490	17,296,367	15,872,137	14,052,940	13,263,167	12,710,654	14,300,553
								15,872,137 62%		13,263,167 54%	12,710,654 55%	14,300,553 59%
Day Ahead Market MWh	14,146,283	12,514,435	13,164,026	12,191,562	12,809,240	14,520,490	17,296,367		14,052,940		, ,	
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	14,146,283 49%	12,514,435 54%	13,164,026 53%	12,191,562 55%	12,809,240 55%	14,520,490 57%	17,296,367 60%	62%	14,052,940 59%	54%	55%	59%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	14,146,283 49% 1%	12,514,435 54% 1%	13,164,026 53% 2%	12,191,562 55% 2%	12,809,240 55% 1%	14,520,490 57% 1%	17,296,367 60% 2%	62% 1%	14,052,940 59% 1%	54% 4%	55% 2%	59% 1%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	14,146,283 49% 1% 42%	12,514,435 54% 1% 43%	13,164,026 53% 2% 43%	12,191,562 55% 2% 41%	12,809,240 55% 1% 41%	14,520,490 57% 1% 39%	17,296,367 60% 2% 36%	62% 1% 35%	14,052,940 59% 1% 39%	54% 4% 41%	55% 2% 41%	59% 1% 37%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	14,146,283 49% 1% 42% 5%	12,514,435 54% 1% 43% 0%	13,164,026 53% 2% 43% 0%	12,191,562 55% 2% 41% 0%	12,809,240 55% 1% 41% 0%	14,520,490 57% 1% 39% 0%	17,296,367 60% 2% 36% 0%	62% 1% 35% 0%	14,052,940 59% 1% 39% 0%	54% 4% 41% 0%	55% 2% 41% 0%	59% 1% 37% 0%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	14,146,283 49% 1% 42% 5% 1%	12,514,435 54% 1% 43% 0% 1%	13,164,026 53% 2% 43% 0% 2%	12,191,562 55% 2% 41% 0% 2%	12,809,240 55% 1% 41% 0% 2%	14,520,490 57% 1% 39% 0% 1%	17,296,367 60% 2% 36% 0% 1%	62% 1% 35% 0% 1%	14,052,940 59% 1% 39% 0% 1%	54% 4% 41% 0% 2%	55% 2% 41% 0% 2%	59% 1% 37% 0% 1%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	14,146,283 49% 1% 42% 5% 1% 1%	12,514,435 54% 1% 43% 0% 1% 1%	13,164,026 53% 2% 43% 0% 2% 1%	12,191,562 55% 2% 41% 0% 2% 0%	12,809,240 55% 1% 41% 0% 2% 1%	14,520,490 57% 1% 39% 0% 1% 1%	17,296,367 60% 2% 36% 0% 1% 1%	62% 1% 35% 0% 1%	14,052,940 59% 1% 39% 0% 1% 1%	54% 4% 41% 0% 2% 0%	55% 2% 41% 0% 2% 0%	59% 1% 37% 0% 1% 1%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh	14,146,283 49% 1% 42% 5% 1% 1% 311,996	12,514,435 54% 1% 43% 0% 1% 1% 210,141	13,164,026 53% 2% 43% 0% 2% 1% 250,339	12,191,562 55% 2% 41% 0% 2% 0% 35,941	12,809,240 55% 1% 41% 0% 2% 1% 192,443	14,520,490 57% 1% 39% 0% 1% 1% 44,238	17,296,367 60% 2% 36% 0% 1% 1% 221,519	62% 1% 35% 0% 1% -31,911	14,052,940 59% 1% 39% 0% 1% 1% -203,622	54% 4% 41% 0% 2% 0% -205,236	55% 2% 41% 0% 2% 0% -284,573	59% 1% 37% 0% 1% 1% -689,219
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales	14,146,283 49% 1% 42% 5% 1% 1% 311,996 28%	12,514,435 54% 1% 43% 0% 1% 1% 210,141 24%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226%	12,809,240 55% 1% 41% 0% 2% 1% 192,443 40%	14,520,490 57% 1% 39% 0% 1% 1% 44,238 -141%	17,296,367 60% 2% 36% 0% 1% 1% 221,519 29%	62% 1% 35% 0% 1% -31,911 -371%	14,052,940 59% 1% 39% 0% 1% 1% -203,622 -147%	54% 4% 41% 0% 2% 0% -205,236 -181%	55% 2% 41% 0% 2% 0% -284,573 -129%	59% 1% 37% 0% 1% 1% -689,219 -115%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy External TC LBMP Energy Sales	14,146,283 49% 1% 42% 5% 1% 1% 311,996 28% 48%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197%	12,809,240 55% 1% 41% 0% 2% 1% 192,443 40% 39%	14,520,490 57% 1% 39% 0% 1% 1% 44,238 -141% 271%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77%	62% 1% 35% 0% 1% -31,911 -371% 327%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53%	54% 4% 41% 0% 2% 0% -205,236 -181% 59%	55% 2% 41% 0% 2% 0% -284,573 -129% 21%	59% 1% 37% 0% 1% 1% -689,219 -115% 13%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importi/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals	14,146,283 49% 1% 42% 5% 1% 1% 311,996 28% 48% 15%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47%	12,809,240 55% 41% 0% 2% 192,443 40% 39% 14%	14,520,490 57% 1% 39% 0% 1% 1% 44,238 -141% 271% 37%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0%	62% 1% 35% 0% 1% -31,911 -371% 327% -1%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0%	59% 1% 37% 0% 1% 1% -689,219 -115% 13% 0%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals	14,146,283 49% 1% 42% 5% 1% 1% 311,996 28% 48% 15% 0%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8% 0%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0%	12,809,240 55% 1% 41% 0% 2% 1% 192,443 40% 39% 14% 0%	14,520,490 57% 1% 39% 0% 1% 1% 44,238 -141% 271% 37% 0%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0%	62% 1% 35% 0% 1% -31,911 -31,911 -371% 327% -1%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0%	54% 4% 41% 0% 2% -205,236 -181% 59% 11% 0%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0%	59% 1% 37% 0% 1% -689,219 -115% 13% 0%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	14,146,283 49% 1% 42% 5% 1% 1% 311,996 28% 48% 15% 0% 6%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8% 0% 13%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83%	12,809,240 55% 1% 41% 0% 2% 1% 192,443 40% 39% 39% 14% 0% 10%	14,520,490 57% 1% 39% 0% 1% 1% 44,238 -141% 271% 37% 0% 32%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% 8%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 0% 9%	59% 1% 37% 0% 1% -689,219 -115% 13% 0% 0% 4%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals	14,146,283 49% 1% 42% 5% 1% 1% 311,996 28% 48% 15% 0% 6%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8% 0% 13%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83%	12,809,240 55% 1% 41% 0% 2% 1% 192,443 40% 39% 39% 14% 0% 10%	14,520,490 57% 1% 39% 0% 1% 1% 44,238 -141% 271% 37% 0% 32%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% 8%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 0% 9%	59% 1% 37% 0% 1% -689,219 -115% 13% 0% 0% 4%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals	14,146,283 49% 1% 42% 5% 1% 1% 311,996 28% 48% 15% 0% 6% 3%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8% 0% 13% -10%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83% -1%	12,809,240 55% 1% 41% 0% 2% 1% 192,443 40% 39% 14% 0% 10% -2%	14,520,490 57% 1% 39% 0% 1% 44,238 -141% 271% 37% 0% 32% -100%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6% -12%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94%	14,052,940 59% 1% 39% 0% 1% -1% -203,622 -147% 53% 5% 0% 8% -18%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0% 10% 10%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 0% 0% 9% -2%	59% 1% 37% 0% 1% -689,219 -115% 13% 0% 0% 4% -2%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Mheel Through Bilaterals         Balancing Energy Bilateral - Mheel Through Bilaterals         Balancing Energy Bilateral - Mheel Through Bilaterals	14,146,283 49% 1% 42% 5% 1% 311,996 28% 48% 15% 0% 6% 3%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8% 0% 13% -10%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83% -1%	12,809,240 55% 1% 41% 0% 2% 1% 192,443 40% 39% 14% 0% 10% -2% 57%	14,520,490 57% 1% 39% 0% 1% 44,238 -141% 271% 37% 0% 32% -100%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 6% -12%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94% 63%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% 8% -18%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0% 10% 10% 1% 56%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 0% 9% -2% 56%	59% 1% 37% 0% 1% 1% -689,219 -115% 13% 0% 0% 4% -2% 58%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy External TC LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Mheel Through Bilaterals	14,146,283 49% 1% 42% 5% 1% 311,996 28% 48% 15% 6% 3% 51% 42%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5% 55% 42%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8% 0% 13% -10% 55% 42%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83% -1% 57% 41%	12,809,240 55% 1% 41% 0% 2% 192,443 40% 39% 14% 0% 10% -2% 57% 41%	14,520,490 57% 1% 39% 0% 1% 1% 44,238 -141% 271% 37% 0% 32% -100% 59% 39%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6% -12% 63% 36%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94% 63% 36%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% 8% -18% 59% 39%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0% 10% 10% 1% 56% 42%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 0% 0% 9% -2% 56% 42%	59% 1% 37% 0% 1% 1% -689,219 -115% 13% 0% 0% 4% -2% 58% 39%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy External TC LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Market Bilaterals         Balancing Energy Bilateral - Wheel Through	14,146,283 49% 1% 42% 5% 1% 311,996 28% 48% 15% 0% 6% 3% 51% 42% 5%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5% 55% 42% 0%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8% 0% 13% -10% 55% 42% 0%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83% -1% 57% 41% 0%	12,809,240 55% 1% 41% 0% 2% 1% 192,443 40% 39% 14% 0% 2% 57% 41% 0%	14,520,490 57% 1% 39% 0% 1% 1% 44,238 -141% 271% 37% 0% 32% -100% 59% 39% 0%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6% -12% 63% 36% 0%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94% 63% 36% 0%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% 8% -18% 59% 39% 0%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0% 10% 10% 1% 56% 42% 0%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 0% 9% -2% 56% 42% 0%	59% 1% 37% 0% 1% 1% -689,219 -115% 13% 0% 0% 4% -2% 58% 39% 0%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy External TC LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-BMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-BMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         BMP	14,146,283 49% 1% 42% 5% 1% 311,996 28% 48% 15% 0% 6% 3% 51% 42% 5% 2%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5% 55% 42% 0% 2%	13,164,026 53% 2% 43% 0% 2% 250,339 39% 50% 8% 0% 13% -10% 55% 42% 0% 2%	12,191,562 55% 2% 41% 0% 2% 35,941 -226% 197% 47% 0% 83% -1% 57% 41% 0% 2%	12,809,240 55% 1% 41% 0% 2% 192,443 40% 39% 14% 0% 2% 57% 41% 0% 2%	14,520,490 57% 1% 39% 0% 1% 44,238 -141% 271% 37% 0% 32% -100% 59% 39% 0% 1%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6% 6% -12% 63% 36% 0% 1%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94% 63% 36% 0% 1%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% -18% 59% 39% 0% 1%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0% 10% 10% 10% 56% 42% 0% 2%	55% 2% 41% 0% 2% -284,573 -129% 21% 0% 0% 9% -2% 56% 42% 0% 2%	59% 1% 37% 0% 1% 1% -689,219 -115% 13% 0% 4% -2% 58% 39% 0% 2%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy External TC LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Import/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Import Bilaterals	14,146,283 49% 1% 42% 5% 1% 311,996 28% 48% 15% 0% 6% 3% 51% 42% 5% 2%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5% 55% 42% 0% 2%	13,164,026 53% 2% 43% 0% 2% 250,339 39% 50% 8% 0% 13% -10% 55% 42% 0% 2%	12,191,562 55% 2% 41% 0% 2% 35,941 -226% 197% 47% 0% 83% -1% 57% 41% 0% 2%	12,809,240 55% 1% 41% 0% 2% 192,443 40% 39% 14% 0% 2% 57% 41% 0% 2%	14,520,490 57% 1% 39% 0% 1% 44,238 -141% 271% 37% 0% 32% -100% 59% 39% 0% 1%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6% 6% -12% 63% 36% 0% 1%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94% 63% 36% 0% 1%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% -18% 59% 39% 0% 1%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0% 10% 10% 10% 56% 42% 0% 2%	55% 2% 41% 0% 2% -284,573 -129% 21% 0% 0% 9% -2% 56% 42% 0% 2%	59% 1% 37% 0% 1% 1% -689,219 -115% 13% 0% 4% -2% 58% 39% 0% 2%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy External TC LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilaterals - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilaterals - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilaterals         Wheels Through	14,146,283 49% 1% 42% 5% 1% 311,996 28% 48% 15% 0% 6% 3% 51% 42% 5% 2% 1%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5% 55% 42% 0% 2% 1%	13,164,026 53% 2% 43% 0% 2% 250,339 39% 50% 8% 0% 13% -10% 55% 42% 0% 2% 1%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83% -1% 57% 41% 0% 2% 0%	12,809,240 55% 1% 41% 0% 2% 192,443 40% 39% 14% 0% 10% -2% 57% 41% 0% 2% 1%	14,520,490 57% 1% 39% 0% 1% 44,238 -141% 271% 37% 0% 32% -100% 59% 39% 0% 1%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 6% -12% 63% 36% 36% 0% 1%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94% 63% 36% 0% 1% 1%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% 8% -18% 59% 39% 0% 1% 0%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0% 10% 1% 56% 42% 0% 2% 0%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 9% -2% 56% 42% 0% 2% 0%	59% 1% 37% 0% 1% 1% -689,219 -115% 13% 0% 4% -2% 58% 39% 0% 2% 1%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilaterals         Wheels Through         Market Share of Total Load         Day Ahead Market	14,146,283 49% 1% 42% 5% 1% 311,996 28% 48% 15% 0% 6% 3% 51% 42% 5% 2% 1%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5% 55% 42% 0% 2% 1% 98.3% 1.7%	13,164,026 53% 2% 43% 0% 2% 250,339 39% 50% 8% 0% 13% -10% 55% 42% 0% 2% 1% 98.1%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83% -1% 57% 41% 0% 2% 0% 99.7%	12,809,240 55% 1% 41% 0% 2% 192,443 40% 39% 14% 0% 10% -2% 57% 41% 0% 2% 1%	14,520,490 57% 1% 39% 0% 1% 44,238 -141% 271% 37% 0% 32% -100% 59% 39% 0% 1% 1%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6% -12% 63% 36% 0% 1% 1% 1%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94% 63% 36% 0% 1% 1% 1%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% 8% -18% 59% 39% 0% 0% 1% 0%	54% 4% 41% 0% 2% -205,236 -181% 59% 11% 0% 10% 10% 10% 2% 0% 2% 0% 101.6%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 0% 9% -2% 56% 42% 0% 2% 0% 2% 0% 2%	59% 1% 37% 0% 1% -689,219 -115% 13% 0% 0% 4% -2% 58% 39% 0% 2% 1% 105.1%
Day Ahead Market MWh         DAM LSE Internal LBMP Energy Sales         DAM External TC LBMP Energy Sales         DAM Bilateral - Internal Bilaterals         DAM Bilateral - Importl/Non-LBMP Market Bilaterals         DAM Bilateral - Export/Non-LBMP Market Bilaterals         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilaterals         Import Bilaterals         Import Bilaterals         Wheels Through         Market Share of Total Load         Day Ahead Market         Balancing Energy +	14,146,283 49% 1% 42% 5% 1% 311,996 28% 48% 15% 0% 6% 3% 51% 42% 5% 2% 2% 1% 97.8% 2.2%	12,514,435 54% 1% 43% 0% 1% 210,141 24% 50% 7% 0% 14% 5% 55% 42% 0% 2% 1% 98.3% 1.7%	13,164,026 53% 2% 43% 0% 2% 1% 250,339 39% 50% 8% 0% 13% -10% 55% 42% 0% 2% 2% 0% 1% 98.1% 1.9%	12,191,562 55% 2% 41% 0% 2% 0% 35,941 -226% 197% 47% 0% 83% -1% 57% 41% 0% 2% 0% 99.7% 0.3%	12,809,240 55% 1% 41% 0% 2% 192,443 40% 39% 39% 10% -2% 57% 41% 0% 2% 2% 1% 98.5% 1.5%	14,520,490 57% 1% 39% 0% 1% 44,238 -141% 271% 37% 0% 32% -100% 59% 39% 0% 1% 1% 1% 99.7% 0.3%	17,296,367 60% 2% 36% 0% 1% 221,519 29% 77% 0% 0% 6% -12% 63% 36% 0% 1% 98.7% 1.3%	62% 1% 35% 0% 1% -31,911 -371% 327% -1% 0% 39% -94% 63% 36% 0% 1% 1% 1%	14,052,940 59% 1% 39% 0% 1% -203,622 -147% 53% 5% 0% 8% -18% 59% 39% 0% 0% 1% 0%	54% 4% 41% 0% 2% 0% -205,236 -181% 59% 11% 0% 10% 10% 10% 2% 0% 0% 2% 0% 0% 101.6% -1.6%	55% 2% 41% 0% 2% 0% -284,573 -129% 21% 0% 0% 9% -2% 56% 42% 0% 2% 0% 2% 0% 2%	59% 1% 37% 0% 1% -689,219 -115% 13% 0% 0% 4% -2% 58% 39% 0% 2% 1% 1% -5.1%

+ 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.

Market Mitigation and Analysis Prepared: 6/5/2012 1:35 PM NYISO Markets Transactions

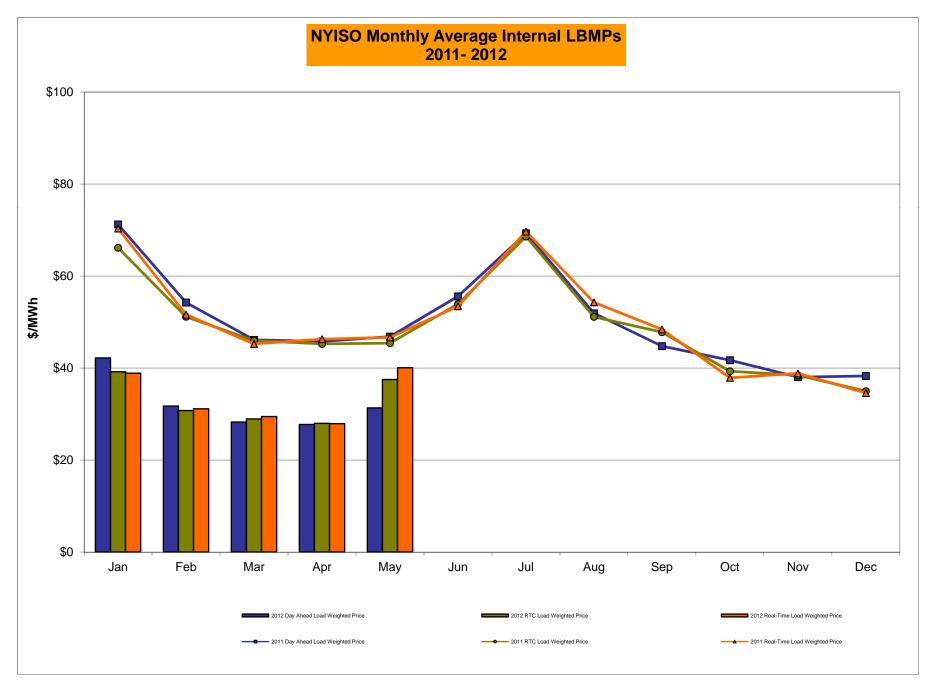
#### NYISO Markets 2012 Energy Statistics

	<u>January</u>	<b>February</b>	March	<u>April</u>	May	<u>June</u>	July	August	September	October November December
DAY AHEAD LBMP										
Price *	\$40.91	\$31.15	\$27.44	\$26.88	\$29.79					
Standard Deviation	\$15.62	\$6.23	\$7.00	\$7.04	\$10.22					
Load Weighted Price **	\$42.20	\$31.73	\$28.25	\$27.72	\$31.33					
RTC LBMP										
Price *	\$37.93	\$30.31	\$28.15	\$27.19	\$34.27					
Standard Deviation	\$23.43	\$7.26	\$22.87	\$15.67	\$46.03					
Load Weighted Price **	\$39.19	\$30.75	\$28.93	\$27.97	\$37.49					
REAL TIME LBMP										
Price *	\$37.35	\$30.54	\$28.47	\$27.00	\$35.22					
Standard Deviation	\$37.35 \$23.75	\$30.54 \$9.77	\$20.47 \$20.94	\$27.00 \$15.14	\$56.38					
Load Weighted Price **	\$23.75 \$38.88	\$31.14	\$20.94 \$29.44	\$13.14 \$27.89	\$30.38 \$40.06					
Luau Weighten Filce	φυ0.00	φ31.14	φ <b>∠</b> 9.44	φ27.09	φ <del>4</del> 0.00					
Average Daily Energy Sendout/Month GWh	443	431	407	396	420					

#### NYISO Markets 2011 Energy Statistics

	<u>January</u>	<b>February</b>	March	<u>April</u>	May	June	July	August S	<u>September</u>	<u>October</u>	November [	December
DAY AHEAD LBMP	<b>.</b>	<b>^</b>	<b>A</b> / <b>- - - -</b>	<b>•</b> • • • • •	<b>•</b> · <b>-</b> • •	<b>^</b>	• • • • • •	<b>•</b> • • • • •	<b>•</b> · • • • •	• • • • • •	<b>A A B A A</b>	<b>•</b>
Price *	\$69.03	\$52.87	\$45.20	\$44.80	\$45.20	\$52.26	\$64.60	\$49.59	\$43.28	\$40.38	\$37.12	\$37.31
Standard Deviation	\$30.78	\$14.77	\$9.06	\$8.22	\$11.77	\$26.24	\$34.99	\$16.62	\$10.26	\$9.30	\$7.64	\$9.13
Load Weighted Price **	\$71.22	\$54.24	\$46.13	\$45.77	\$46.83	\$55.58	\$69.28	\$51.90	\$44.76	\$41.70	\$38.02	\$38.27
RTC LBMP												
Price *	\$64.48	\$50.15	\$45.13	\$44.32	\$43.69	\$50.47	\$63.42	\$48.47	\$46.02	\$38.44	\$37.43	\$34.00
Standard Deviation	\$39.41	\$18.83	\$18.96	\$15.44	\$25.19	\$46.41	\$82.29	\$59.95	\$25.18	\$15.45	\$17.55	\$15.60
Load Weighted Price **	\$66.15	\$51.15	\$45.98	\$45.25	\$45.41	\$53.91	\$68.58	\$51.12	\$47.80	\$39.30	\$38.43	\$34.97
REAL TIME LBMP												
Price *	\$67.92	\$50.26	\$44.22	\$45.20	\$44.26	\$48.68	\$62.96	\$49.39	\$45.92	\$36.91	\$37.67	\$33.50
Standard Deviation	\$58.47	\$22.39	\$17.41	\$19.98	\$26.27	\$44.88	\$64.83	\$62.04	\$26.88	\$13.65	\$19.42	\$14.12
Load Weighted Price **	\$70.32	\$51.61	\$45.24	\$46.28	\$46.66	\$53.42	\$69.66	\$54.28	\$48.40	\$37.88	\$38.84	\$34.57
Average Daily Energy Sendout/Month GWh	457	447	422	398	411	479	555	505	456	402	408	430

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



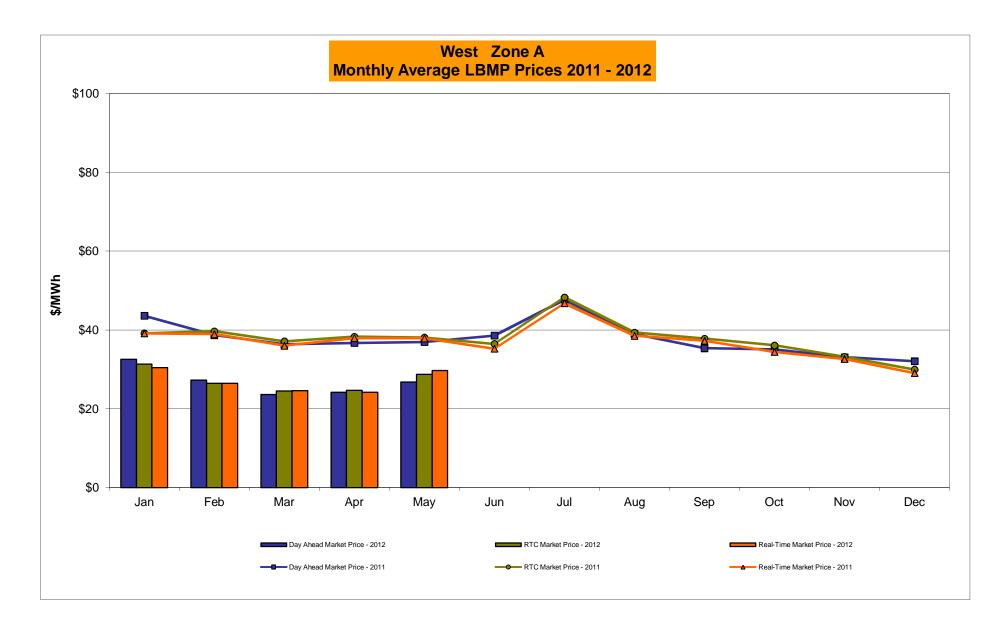
Market Mitigation and Analysis Prepared: 6/5/2012 8:45 AM

#### May 2012 Zonal LBMP Statistics for NYISO (\$/MWh)

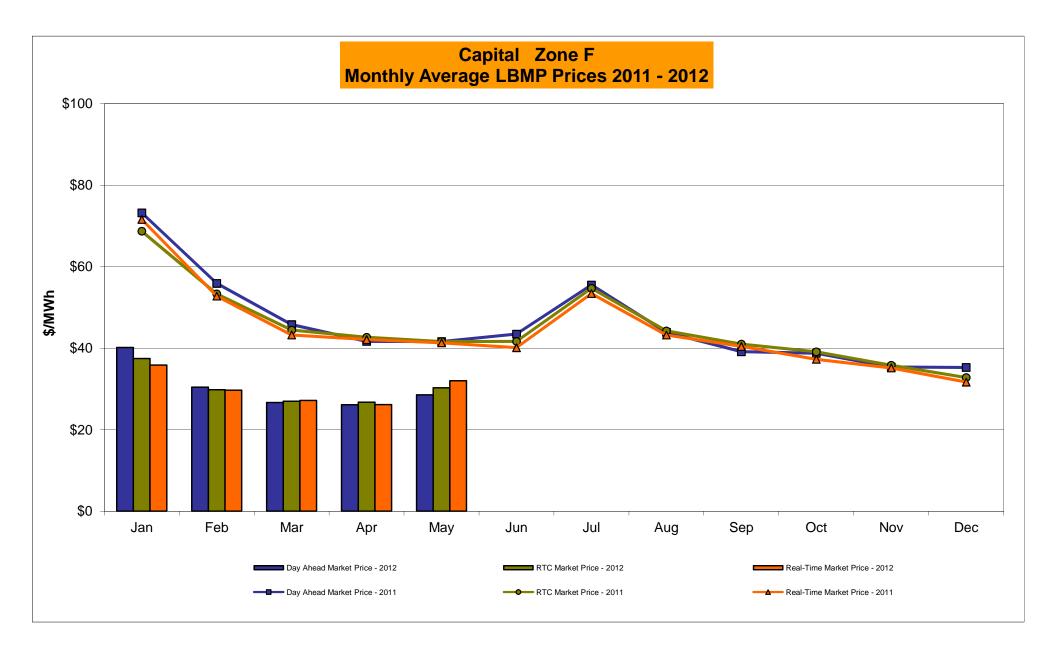
	WEST <u>Zone A</u>	GENESEE Zone B	NORTH <u>Zone D</u>	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD <u>Zone H</u>	DUNWOODIE <u>Zone I</u>	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP	06.04	27.15	25.69	27.64	27.91	28.55	30.15	30.13	30.15	30.48	34.72
Unweighted Price *	26.81	-		-	-						-
Standard Deviation	7.61	7.97	7.53	8.15	8.41	8.41	9.89	10.13	10.13	10.15	19.74
RTC LBMP											
Unweighted Price *	28.75	29.06	27.05	29.46	29.71	30.28	35.16	35.70	35.75	36.06	43.01
Standard Deviation	28.25	29.88	28.09	30.33	30.91	30.85	51.28	56.06	56.58	56.95	92.25
REAL TIME LBMP											
Unweighted Price *	29.69	29.68	27.60	30.11	30.35	32.01	35.92	36.46	36.50	36.76	43.52
Standard Deviation	41.54	39.05	36.78	40.04	40.39	45.59	62.15	67.35	67.87	68.22	82.74
olandara Doviation	11.01	00.00	00.10	10.01	10.00	10.00	02.10	01.00	01.01	00.22	02.7 1

	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE		Dennison
	Zone O	Zone M	Zone M	Zone P	Zone N	Controllable Line	Controllable Line	Controllable Line	Controllable Line	<u>Controllable</u> Line
DAY AHEAD LBMP										
Unweighted Price *	26.07	24.44	18.27	27.94	28.90	34.58	33.20	34.59	29.88	25.23
Standard Deviation	7.21	7.69	2.79	8.46	8.82	20.41	18.33	20.77	8.93	7.34
RTC LBMP										
Unweighted Price *	26.22	24.83	23.33	29.28	29.64	39.70	39.00	39.52	31.55	24.17
Standard Deviation	13.60	13.74	9.71	22.27	21.47	87.25	87.11	87.28	40.21	15.37
REAL TIME LBMP										
Unweighted Price *	26.46	27.03	23.85	32.21	30.79	43.21	39.08	42.81	34.77	26.58
Standard Deviation	23.98	36.01	15.09	44.68	38.92	81.66	61.73	81.38	59.52	35.20

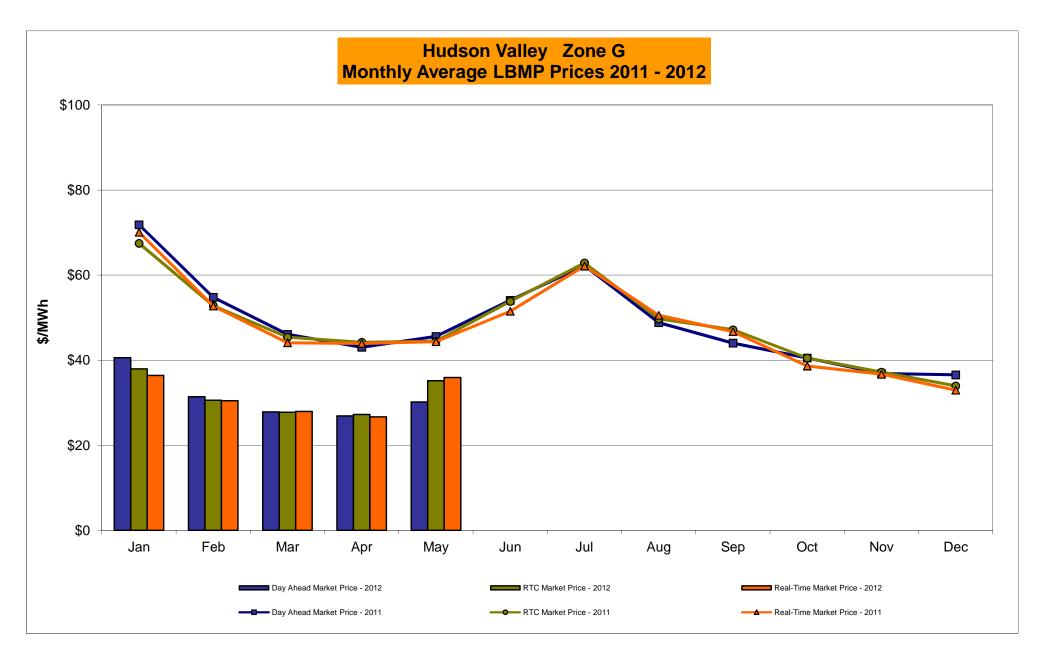
\* Straight LBMP averages



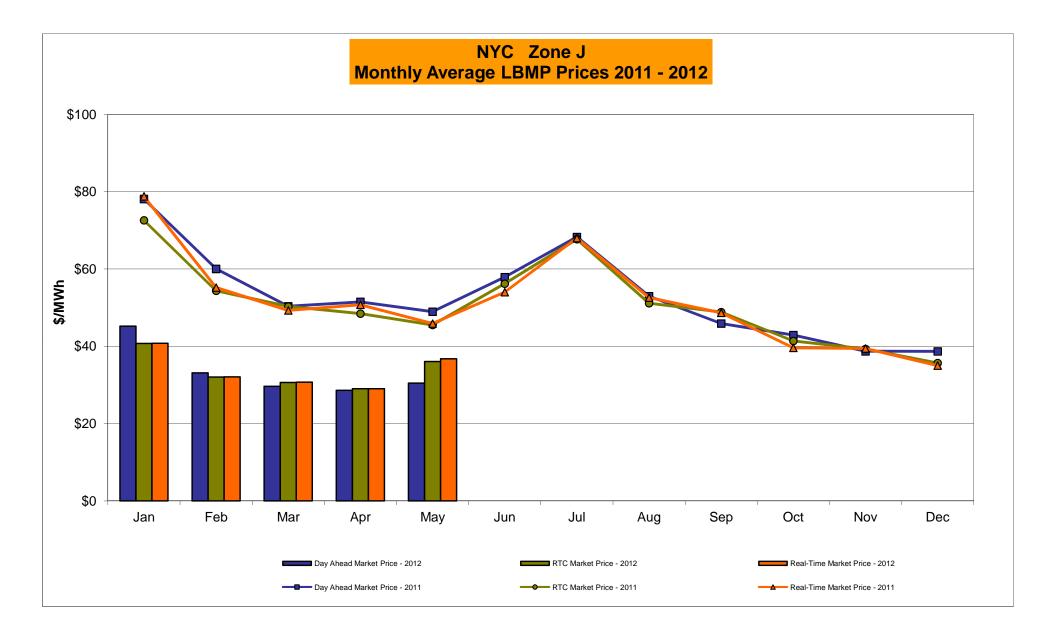
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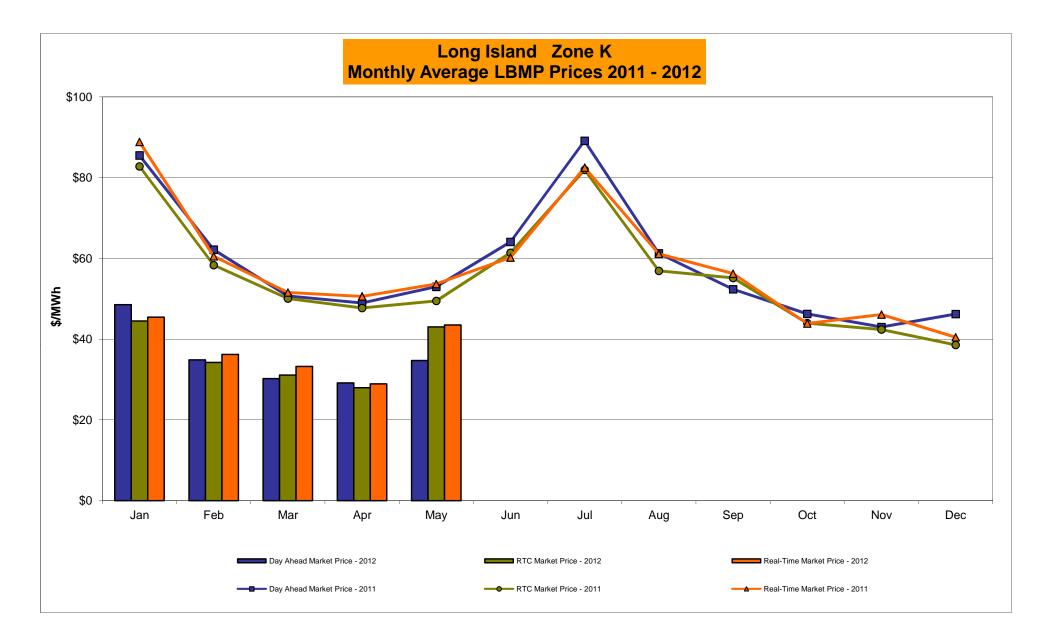
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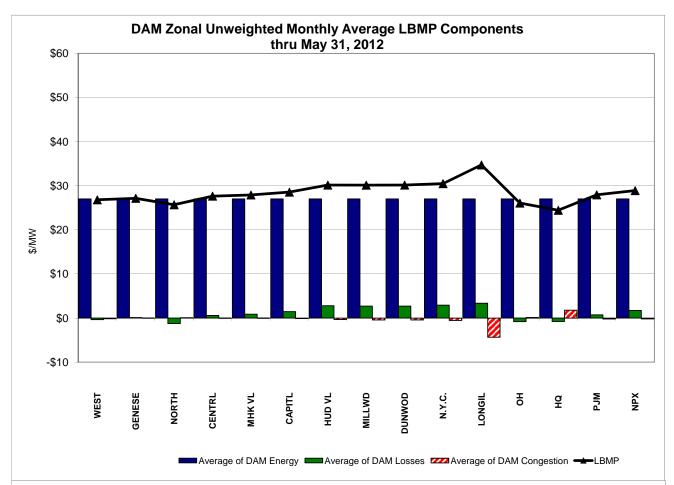


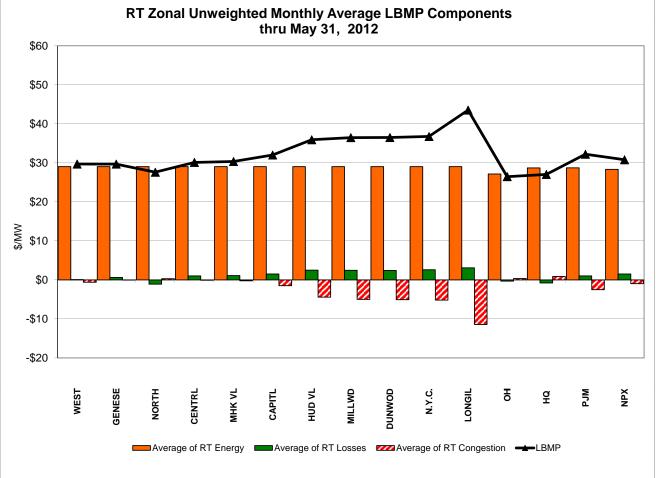
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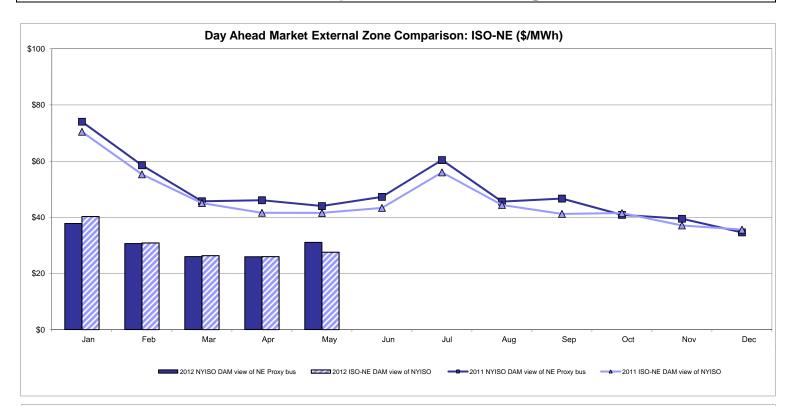


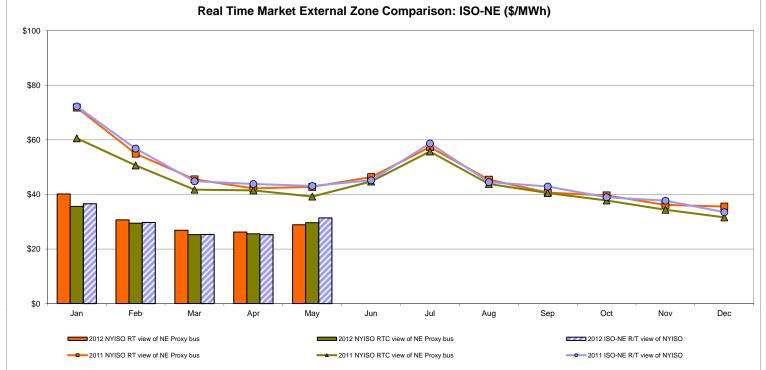




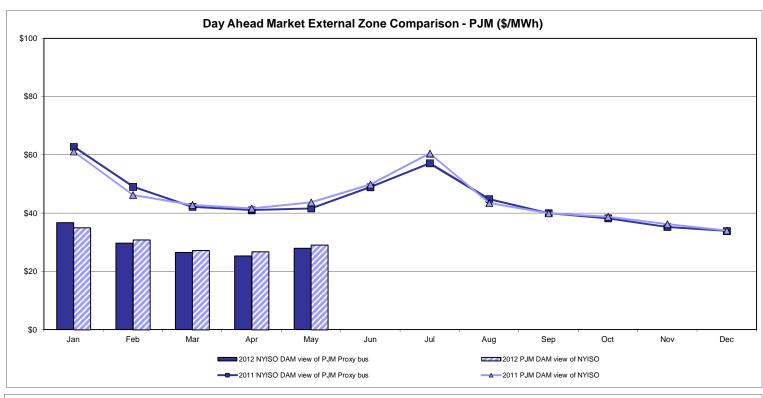
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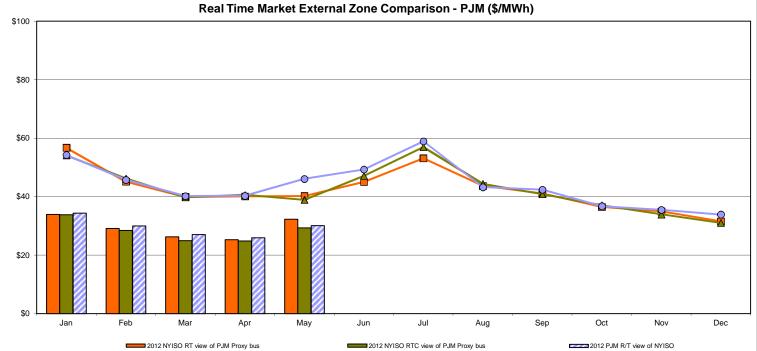
# **External Comparison ISO-New England**



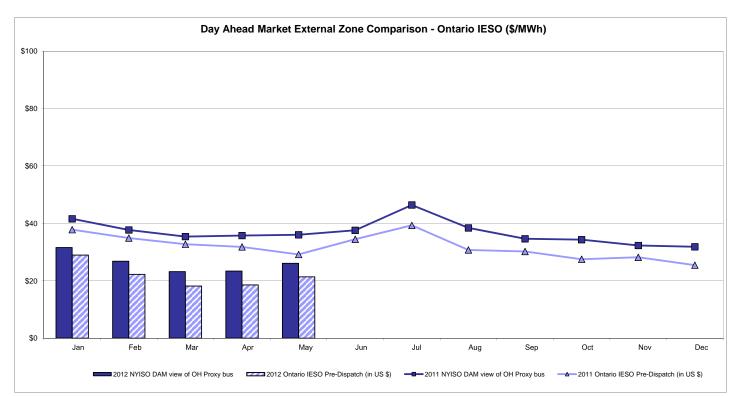


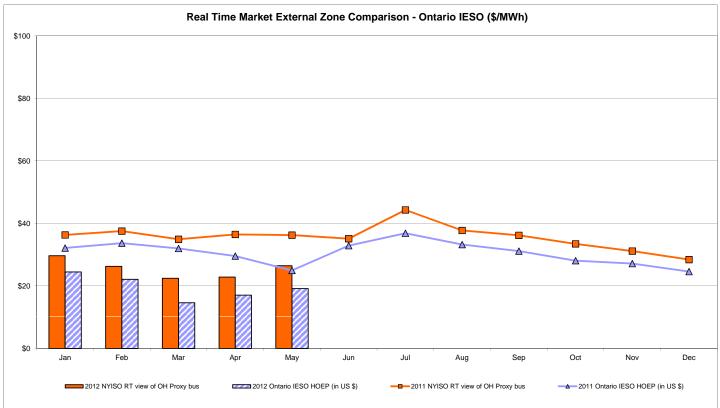
# External Comparison PJM



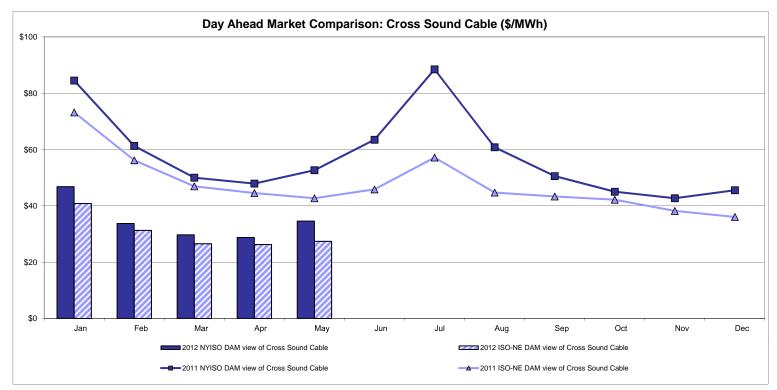


# **External Comparison Ontario IESO**

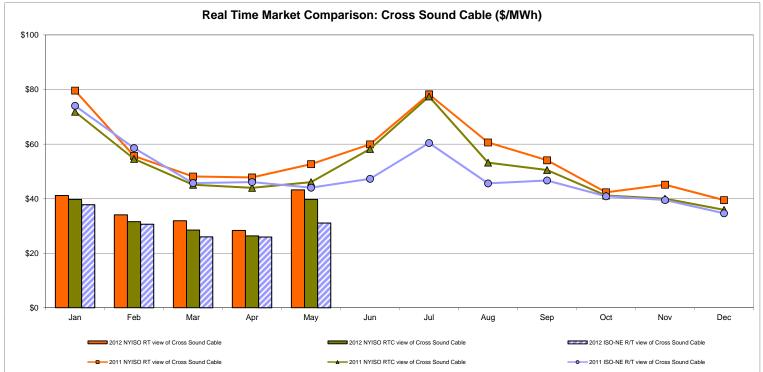




Notes: Exchange factor used for May 2012 was 1.00 to US \$ HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



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

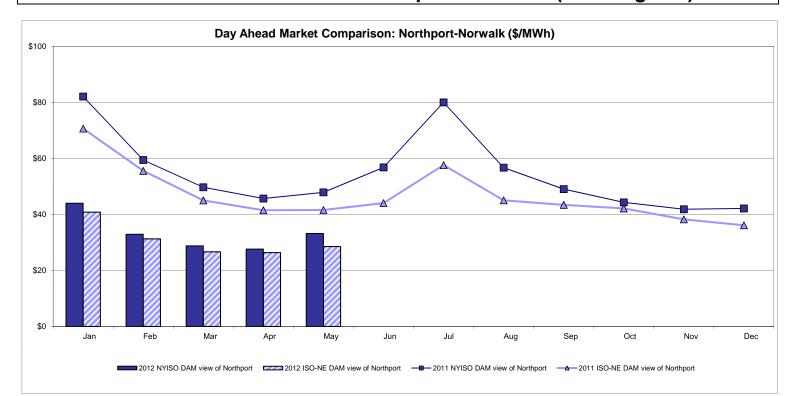


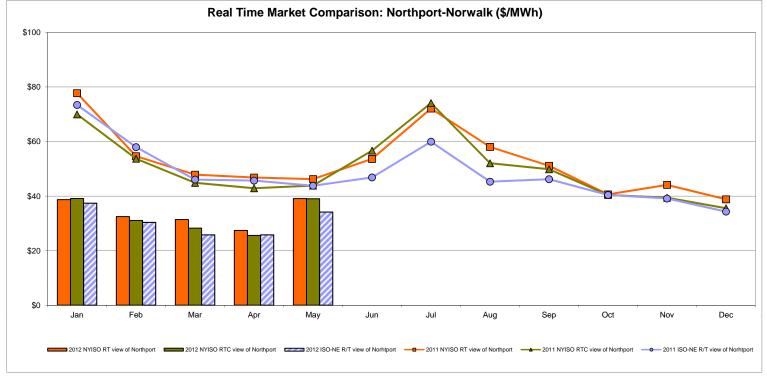
Note:

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.





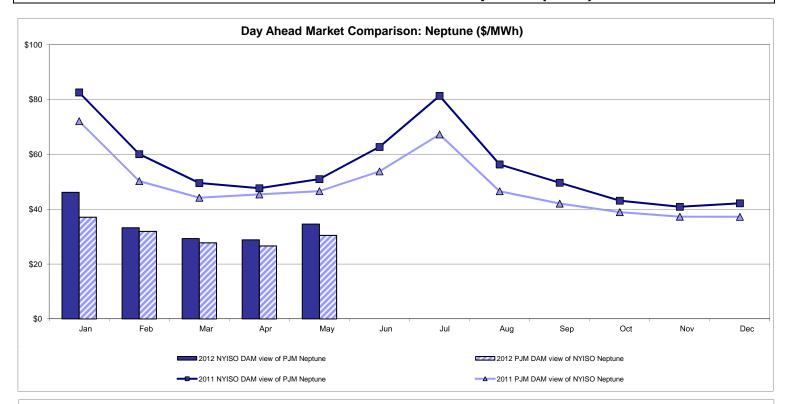
# External Controllable Line: Northport - Norwalk (New England)

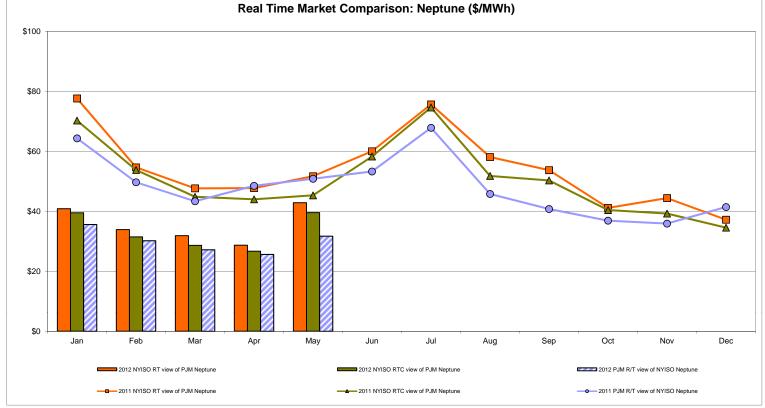
Note:

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

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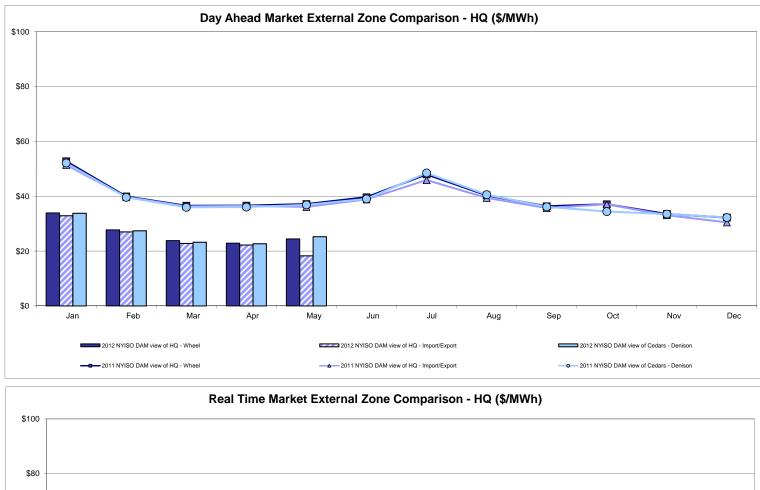
The DAM and R/T prices at the 1385 interface are used for NYISO.

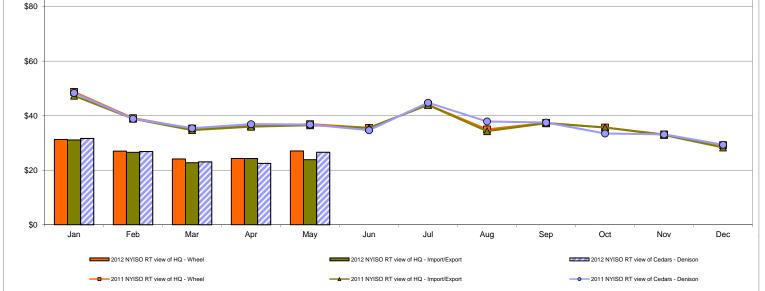




# External Controllable Line: Neptune (PJM)

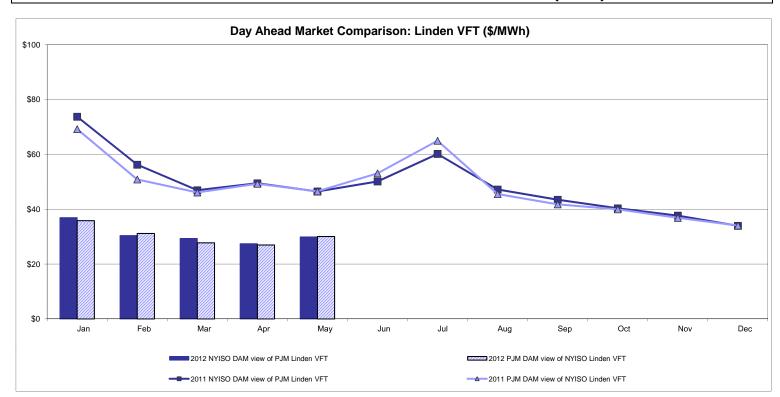
# External Comparison Hydro-Quebec



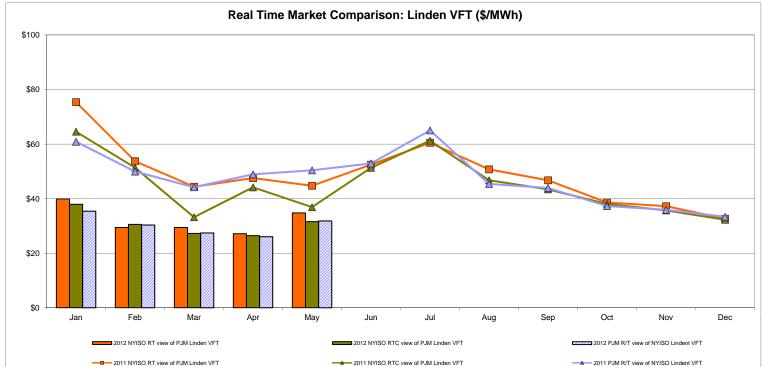


Note:

Hydro-Quebec Prices are unavailable.



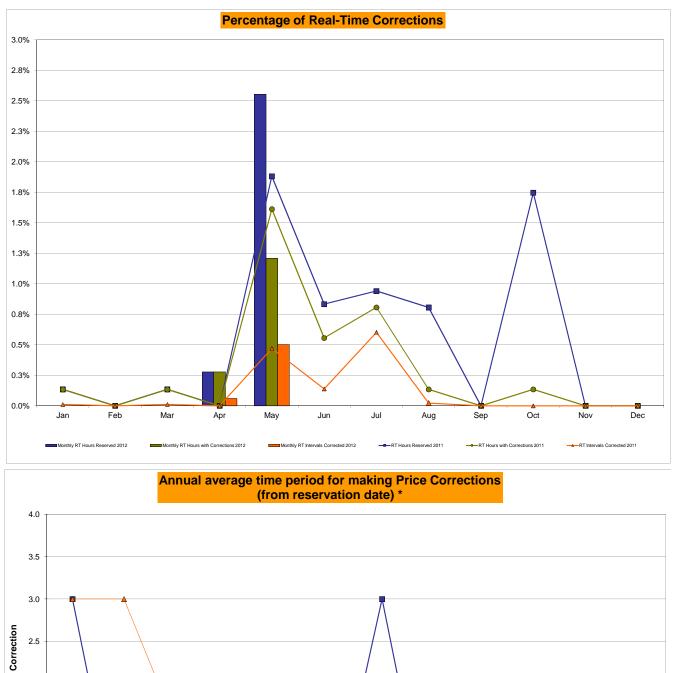
# External Controllable Line: Linden VFT (PJM)

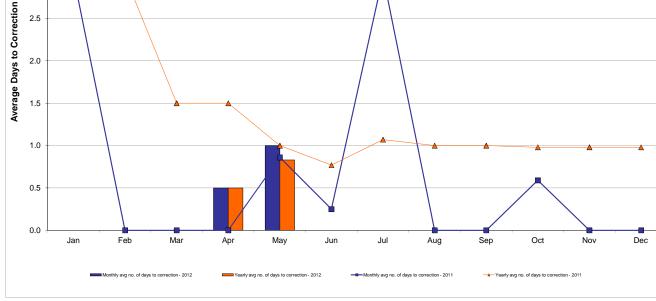


#### **NYISO Real Time Price Correction Statistics**

2012 Hour Corrections		<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
Number of hours with corrections	in the month	0	0	0	2	9							
Number of hours	in the month	744	696	744	720	744							
% of hours with corrections	in the month	0.00%	0.00%	0.00%	0.28%	1.21%							
% of hours with corrections	vear-to-date	0.00%	0.00%	0.00%	0.07%	0.30%							
Interval Corrections	jea. te date	0.0070	010070	0.0070	010170	0.0070							
Number of intervals corrected	in the month	0	0	0	5	45							
Number of intervals	in the month	8,987	8,082	8,950	8,375	8,956							
% of intervals corrected	in the month	0.00%	0.00%	0.00%	0.06%	0.50%							
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%	0.01%	0.12%							
Hours Reserved	, ,												
Number of hours reserved	in the month	0	0	0	2	19							
Number of hours	in the month	744	696	744	720	744							
% of hours reserved	in the month	0.00%	0.00%	0.00%	0.28%	2.55%							
% of hours reserved	year-to-date	0.00%	0.00%	0.00%	0.07%	0.58%							
Days to Correction *													
Avg. number of days to correction	in the month	0.00	0.00	0.00	0.50	1.00							
Avg. number of days to correction	year-to-date	0.00	0.00	0.00	0.50	0.83							
Days Without Corrections													
Days without corrections	in the month	31	29	31	27	27							
Days without corrections	year-to-date	31	60	91	118	145							
2011		Januarv	February	March	April	Mav	June	Julv	August	September	October	November	December
2011 Hour Corrections		<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	July	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
	in the month	<u>January</u> 1	<u>February</u> 0	<u>March</u> 1	<u>April</u> 0	<u>May</u> 12	<u>June</u> 4	<u>July</u> 6	<u>August</u> 1	<u>September</u> 0	<u>October</u> 1	<u>November</u> 0	<u>December</u> 0
Hour Corrections	in the month in the month	<u>_</u> _	<u>.</u>			<u>.</u>							
Hour Corrections Number of hours with corrections		1	0	1	0	12	4	6	1	0	1	0	0
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	1 744	0 672 0.00%	1 744	0 720	12 744	4 720	6 744	1 744	0 720	1 744	0 720 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours	in the month	1 744 0.13%	0 672	1 744 0.13%	0 720 0.00%	12 744 1.61%	4 720 0.56%	6 744 0.81%	1 744 0.13%	0 720 0.00%	1 744 0.13%	0 720	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	1 744 0.13%	0 672 0.00%	1 744 0.13%	0 720 0.00%	12 744 1.61%	4 720 0.56%	6 744 0.81%	1 744 0.13%	0 720 0.00%	1 744 0.13%	0 720 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	1 744 0.13% 0.13%	0 672 0.00% 0.07%	1 744 0.13% 0.09%	0 720 0.00% 0.07%	12 744 1.61% <u>0.39%</u>	4 720 0.56% 0.41%	6 744 0.81% 0.47%	1 744 0.13% 0.43%	0 720 0.00% 0.38%	1 744 0.13% 0.36%	0 720 0.00% 0.32%	0 744 0.00% 0.30%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	1 744 0.13% 0.13%	0 672 0.00% 0.07%	1 744 0.13% 0.09%	0 720 0.00% 0.07%	12 744 1.61% 0.39%	4 720 0.56% <u>0.41%</u> 12	6 744 0.81% 0.47% 54	1 744 0.13% 0.43% 2	0 720 0.00% 0.38% 0	1 744 0.13% 0.36% 2	0 720 0.00% 0.32% 0	0 744 0.00% 0.30% 0
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date in the month in the month	1 744 0.13% <u>0.13%</u> 1 8,938	0 672 0.00% 0.07% 0 8,049	1 744 0.13% <u>0.09%</u> 1 8,924	0 720 0.00% 0.07% 0 8,671	12 744 1.61% 0.39% 42 8,939	4 720 0.56% 0.41% 12 8,661	6 744 0.81% 0.47% 54 8,967	1 744 0.13% <u>0.43%</u> 2 9,021	0 720 0.00% 0.38% 0 8,678	1 744 0.13% <u>0.36%</u> 2 8,940	0 720 0.00% 0.32% 0 8,671	0 744 0.00% <u>0.30%</u> 0 8,954
Hour Corrections         Number of hours with corrections         Number of hours         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	1 744 0.13% 0.13% 1 8,938 0.01%	0 672 0.00% 0.07% 0 8,049 0.00%	1 744 0.13% 0.09% 1 8,924 0.01%	0 720 0.00% 0.07% 0 8,671 0.00%	12 744 1.61% 0.39% 42 8,939 0.47%	4 720 0.56% 0.41% 12 8,661 0.14%	6 744 0.81% 0.47% 54 8,967 0.60%	1 744 0.13% 0.43% 2 9,021 0.02%	0 720 0.00% 0.38% 0 8,678 0.00%	1 744 0.13% 0.36% 2 8,940 0.02%	0 720 0.00% 0.32% 0 8,671 0.00%	0 744 0.00% <u>0.30%</u> 0 8,954 0.00%
Hour Corrections         Number of hours with corrections         Number of hours         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         % of intervals corrected         % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	1 744 0.13% 0.13% 1 8,938 0.01%	0 672 0.00% 0.07% 0 8,049 0.00%	1 744 0.13% 0.09% 1 8,924 0.01%	0 720 0.00% 0.07% 0 8,671 0.00%	12 744 1.61% 0.39% 42 8,939 0.47%	4 720 0.56% 0.41% 12 8,661 0.14%	6 744 0.81% 0.47% 54 8,967 0.60%	1 744 0.13% 0.43% 2 9,021 0.02%	0 720 0.00% 0.38% 0 8,678 0.00%	1 744 0.13% 0.36% 2 8,940 0.02%	0 720 0.00% 0.32% 0 8,671 0.00%	0 744 0.00% <u>0.30%</u> 0 8,954 0.00%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected	in the month in the month year-to-date in the month in the month year-to-date	1 744 0.13% 0.13% 1 8,938 0.01% 0.01%	0 672 0.00% 0.07% 0 8,049 0.00% 0.01%	1 744 0.13% 0.09% 1 8,924 0.01% 0.01%	0 720 0.00% 0.07% 0 8,671 0.00% 0.01%	12 744 1.61% 0.39% 42 8,939 0.47% 0.10%	4 720 0.56% 0.41% 12 8,661 0.14% 0.11%	6 744 0.81% 0.47% 54 8,967 0.60% 0.18%	1 744 0.13% 0.43% 2 9,021 0.02% 0.16%	0 720 0.00% 0.38% 0 8,678 0.00% 0.14%	1 744 0.13% 0.36% 2 8,940 0.02% 0.13%	0 720 0.00% 0.32% 0 8,671 0.00% 0.12%	0 744 0.00% 0.30% 0 8,954 0.00% 0.11%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         Mumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	1 744 0.13% <u>0.13%</u> 1 8,938 0.01% <u>0.01%</u> 1	0 672 0.00% 0.07% 0 8,049 0.00% 0.01% 0	1 744 0.13% 0.09% 1 8,924 0.01% 0.01% 1	0 720 0.00% 0.07% 0 8,671 0.00% 0.01% 0	12 744 1.61% 0.39% 42 8,939 0.47% 0.10% 14	4 720 0.56% 0.41% 12 8,661 0.14% 0.11% 6	6 744 0.81% 0.47% 54 8,967 0.60% 0.18% 7	1 744 0.13% 0.43% 2 9,021 0.02% 0.16% 6	0 720 0.00% 0.38% 0 8,678 0.00% 0.14% 0	1 744 0.13% 0.36% 2 8,940 0.02% 0.13% 13	0 720 0.00% 0.32% 0 8,671 0.00% 0.12% 0	0 744 0.00% 0.30% 0 8,954 0.00% 0.11% 0
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         Mumber of hours reserved         Number of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	1 744 0.13% <u>0.13%</u> 1 8,938 0.01% <u>0.01%</u> 1 744	0 672 0.00% 0.07% 0 8,049 0.00% 0.01% 0 672	1 744 0.13% 0.09% 1 8,924 0.01% 0.01% 1 744	0 720 0.00% 0.07% 0 8,671 0.00% 0.01% 0 720	12 744 1.61% 0.39% 42 8,939 0.47% 0.10% 14 744	4 720 0.56% 0.41% 12 8,661 0.14% 0.11% 6 720	6 744 0.81% 0.47% 54 8,967 0.60% 0.18% 7 744	1 744 0.13% 0.43% 2 9,021 0.02% 0.16% 6 744	0 720 0.00% 0.38% 0 8,678 0.00% 0.14% 0 720	1 744 0.13% 0.36% 2 8,940 0.02% 0.13% 13 744	0 720 0.00% 0.32% 0 8,671 0.00% 0.12% 0 720	0 744 0.00% 0.30% 0 8,954 0.00% 0.11% 0 744
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	1 744 0.13% 0.13% 1 8,938 0.01% 0.01% 0.01% 1 744 0.13%	0 672 0.00% 0.07% 0 8,049 0.00% 0.01% 0 672 0.00%	1 744 0.13% 0.09% 1 8,924 0.01% 0.01% 1 744 0.13%	0 720 0.00% 0.07% 0 8,671 0.00% 0.01% 0 720 0.00%	12 744 1.61% 0.39% 42 8,939 0.47% 0.10% 14 744 1.88%	4 720 0.56% 0.41% 12 8,661 0.14% 0.11% 6 720 0.83%	6 744 0.81% 0.47% 54 8,967 0.60% 0.18% 7 744 0.94%	1 744 0.13% 0.43% 2 9,021 0.02% 0.16% 6 744 0.81%	0 720 0.00% 0.38% 0 8,678 0.00% 0.14% 0 720 0.00%	1 744 0.13% 0.36% 2 8,940 0.02% 0.13% 13 744 1.75%	0 720 0.00% 0.32% 0 8,671 0.00% 0.12% 0 720 0.00%	0 744 0.00% 0.30% 0 8,954 0.00% 0.11% 0 744 0.00%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	1 744 0.13% 0.13% 1 8,938 0.01% 0.01% 0.01% 1 744 0.13%	0 672 0.00% 0.07% 0 8,049 0.00% 0.01% 0 672 0.00%	1 744 0.13% 0.09% 1 8,924 0.01% 0.01% 1 744 0.13%	0 720 0.00% 0.07% 0 8,671 0.00% 0.01% 0 720 0.00%	12 744 1.61% 0.39% 42 8,939 0.47% 0.10% 14 744 1.88%	4 720 0.56% 0.41% 12 8,661 0.14% 0.11% 6 720 0.83%	6 744 0.81% 0.47% 54 8,967 0.60% 0.18% 7 744 0.94%	1 744 0.13% 0.43% 2 9,021 0.02% 0.16% 6 744 0.81%	0 720 0.00% 0.38% 0 8,678 0.00% 0.14% 0 720 0.00%	1 744 0.13% 0.36% 2 8,940 0.02% 0.13% 13 744 1.75%	0 720 0.00% 0.32% 0 8,671 0.00% 0.12% 0 720 0.00%	0 744 0.00% 0.30% 0 8,954 0.00% 0.11% 0 744 0.00%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date	1 744 0.13% 0.13% 1 8,938 0.01% 0.01% 0.01% 1 744 0.13% 0.13%	0 672 0.00% 0.07% 0 8,049 0.00% 0.01% 0 672 0.00% 0.07%	1 744 0.13% 0.09% 1 8,924 0.01% 0.01% 1 744 0.13% 0.09%	0 720 0.00% 0.07% 0 8,671 0.00% 0.01% 0 720 0.00% 0.07%	12 744 1.61% 0.39% 42 8,939 0.47% 0.10% 14 744 1.88% 0.44%	4 720 0.56% 0.41% 12 8,661 0.14% 0.11% 6 720 0.83% 0.51%	6 744 0.81% 0.47% 54 8,967 0.60% 0.18% 7 744 0.94% 0.57%	1 744 0.13% 0.43% 2 9,021 0.02% 0.16% 6 744 0.81% 0.60%	0 720 0.00% 0.38% 0 8,678 0.00% 0.14% 0 720 0.00% 0.53%	1 744 0.13% 0.36% 2 8,940 0.02% 0.13% 13 744 1.75% 0.66%	0 720 0.00% 0.32% 0 8,671 0.00% 0.12% 0 720 0.00% 0.60%	0 744 0.00% 0.30% 0 8,954 0.00% 0.11% 0 744 0.00% 0.55%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	1 744 0.13% 0.13% 1 8,938 0.01% 0.01% 1 744 0.13% 0.13% 3.00	0 672 0.00% 0.07% 0 8,049 0.00% 0.01% 0 672 0.00% 0.07% 0.00	1 744 0.13% 0.09% 1 8,924 0.01% 0.01% 1 744 0.13% 0.09% 0.00	0 720 0.00% 0.07% 0 8,671 0.00% 0.01% 0 720 0.00% 0.07% 0.00	12 744 1.61% 0.39% 42 8,939 0.47% 0.10% 14 744 1.88% 0.44% 0.86	4 720 0.56% 0.41% 12 8,661 0.14% 0.14% 0.11% 6 720 0.83% 0.51% 0.25	6 744 0.81% 0.47% 54 8,967 0.60% 0.18% 7 744 0.94% 0.57% 3.00	1 744 0.13% 0.43% 2 9,021 0.02% 0.16% 6 744 0.81% 0.60% 0.00	0 720 0.00% 0.38% 0 8,678 0.00% 0.14% 0 720 0.00% 0.53% 0.00	1 744 0.13% 0.36% 2 8,940 0.02% 0.13% 13 744 1.75% 0.66% 0.59	0 720 0.00% 0.32% 0 8,671 0.00% 0.12% 0 720 0.00% 0.60% 0.00	0 744 0.00% 0.30% 0 8,954 0.00% 0.11% 0 744 0.00% 0.55% 0.00
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of netrvals corrected         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         Number of hours reserved         % of hours reserved         Days to Correction *         Avg. number of days to correction         Avg. number of days to correction         Days without corrections	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	1 744 0.13% 0.13% 1 8,938 0.01% 0.01% 1 744 0.13% 0.13% 3.00 3.00 30	0 672 0.00% 0.07% 0 8,049 0.00% 0.01% 0 672 0.00% 0.07% 0.07% 0.00 3.00 28	1 744 0.13% 0.09% 1 8,924 0.01% 0.01% 1 744 0.13% 0.09% 0.00 1.50 30	0 720 0.00% 0.07% 0 8,671 0.00% 0.01% 0 720 0.00% 0.07% 0.07% 0.00 1.50 30	12 744 1.61% 0.39% 42 8,939 0.47% 0.10% 14 744 1.88% 0.44% 0.86 1.00 24	4 720 0.56% 0.41% 12 8,661 0.14% 0.11% 6 720 0.83% 0.51% 0.25 0.77 26	6 744 0.81% 0.47% 54 8,967 0.60% 0.18% 7 744 0.94% 0.57% 3.00 1.07 29	1 744 0.13% 0.43% 2 9,021 0.02% 0.16% 6 744 0.81% 0.60% 0.00 1.00 30	0 720 0.00% 0.38% 0 8,678 0.00% 0.14% 0 720 0.00% 0.53% 0.00 1.00 30	1 744 0.13% 0.36% 2 8,940 0.02% 0.13% 13 744 1.75% 0.66% 0.59 0.98 30	0 720 0.00% 0.32% 0 8,671 0.00% 0.12% 0 720 0.00% 0.60% 0.60% 0.98 30	0 744 0.00% 0.30% 0 8,954 0.00% 0.11% 0 744 0.00% 0.55% 0.00 0.98 31
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved         Avg. number of days to correction Avg. number of days to correction         Avg. Number of days to correction	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	1 744 0.13% 0.13% 1 8,938 0.01% 0.01% 1 744 0.13% 0.13% 3.00 3.00	0 672 0.00% 0.07% 0 8,049 0.00% 0.01% 0 672 0.00% 0.07% 0.00 3.00	1 744 0.13% 0.09% 1 8,924 0.01% 0.01% 1 744 0.13% 0.09% 0.00 1.50	0 720 0.00% 0.07% 0 8,671 0.00% 0.01% 0 720 0.00% 0.07% 0.00 1.50	12 744 1.61% 0.39% 42 8,939 0.47% 0.10% 14 744 1.88% 0.44% 0.86 1.00	4 720 0.56% 0.41% 12 8,661 0.14% 0.14% 0.11% 6 720 0.83% 0.51% 0.25 0.77	6 744 0.81% 0.47% 54 8,967 0.60% 0.18% 7 744 0.94% 0.57% 3.00 1.07	1 744 0.13% 0.43% 2 9,021 0.02% 0.16% 6 744 0.81% 0.60% 0.00 1.00	0 720 0.00% 0.38% 0 8,678 0.00% 0.14% 0 720 0.00% 0.53% 0.00 1.00	1 744 0.13% 0.36% 2 8,940 0.02% 0.13% 13 744 1.75% 0.66% 0.59 0.98	0 720 0.00% 0.32% 0 8,671 0.00% 0.12% 0 720 0.00% 0.60% 0.00 0.98	0 744 0.00% 0.30% 0 8,954 0.00% 0.11% 0 744 0.00% 0.55% 0.00 0.98

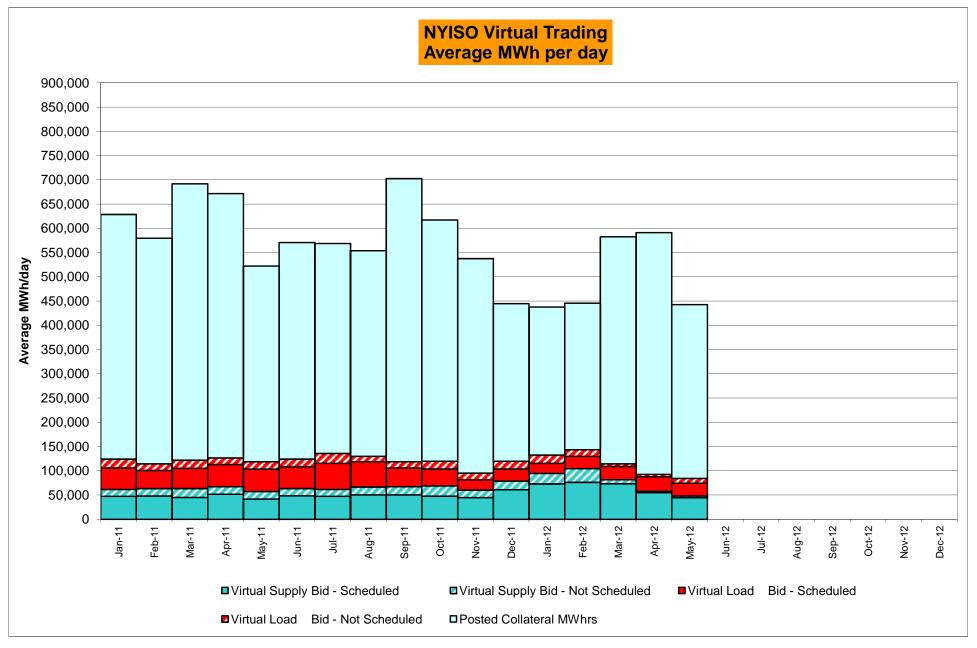
\* Calendar days from reservation date.



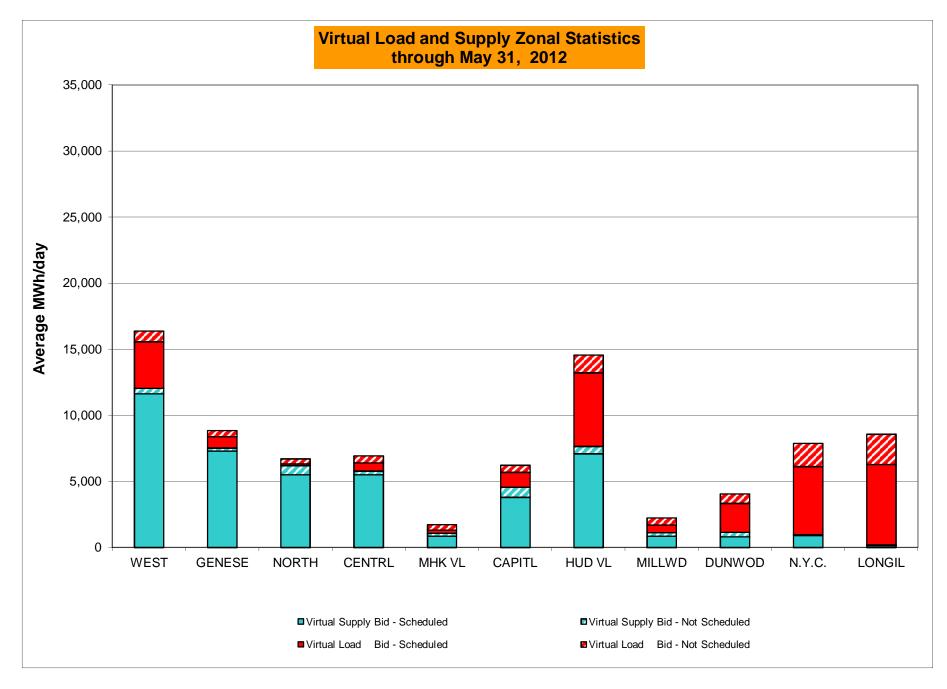


\* Calendar days from reservation date.

Market Mitigation and Analysis Prepared: 6/8/2012 2:25 PM



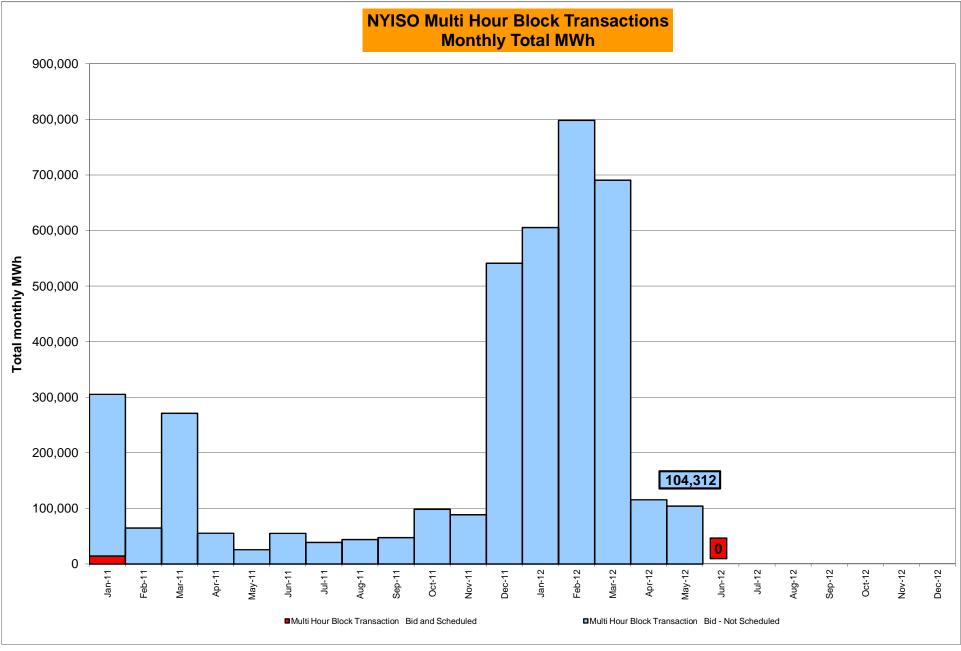
Market Mitigation and Analysis Prepared: 6/5/2012 1:59 PM



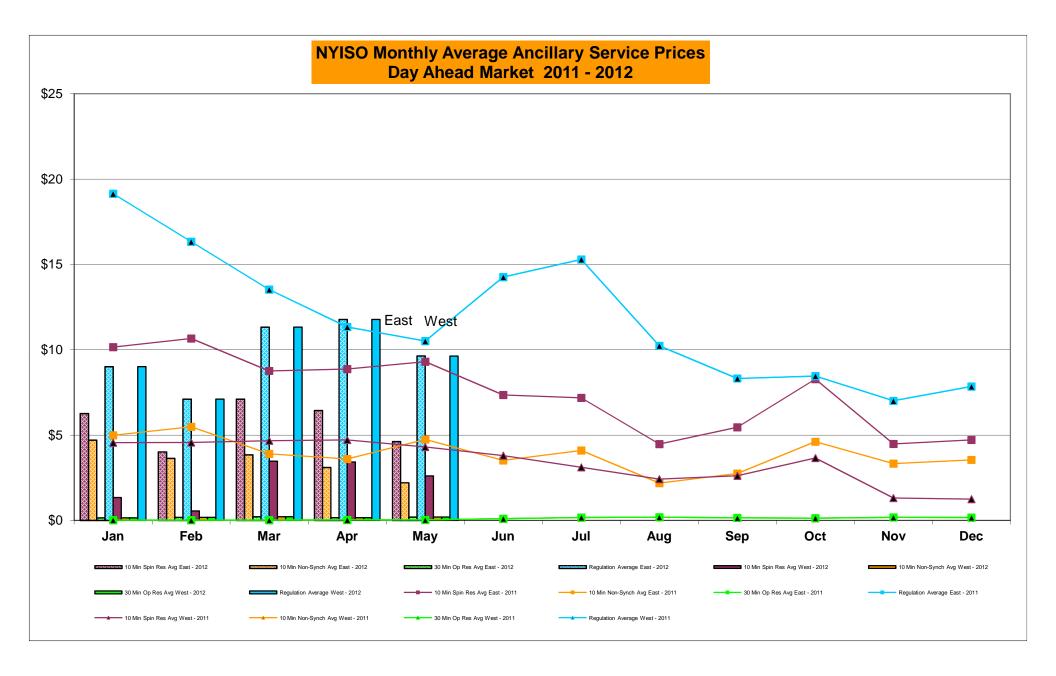
Market Mitigation and Analysis Prepared: 6/5/2012 2:01 PM

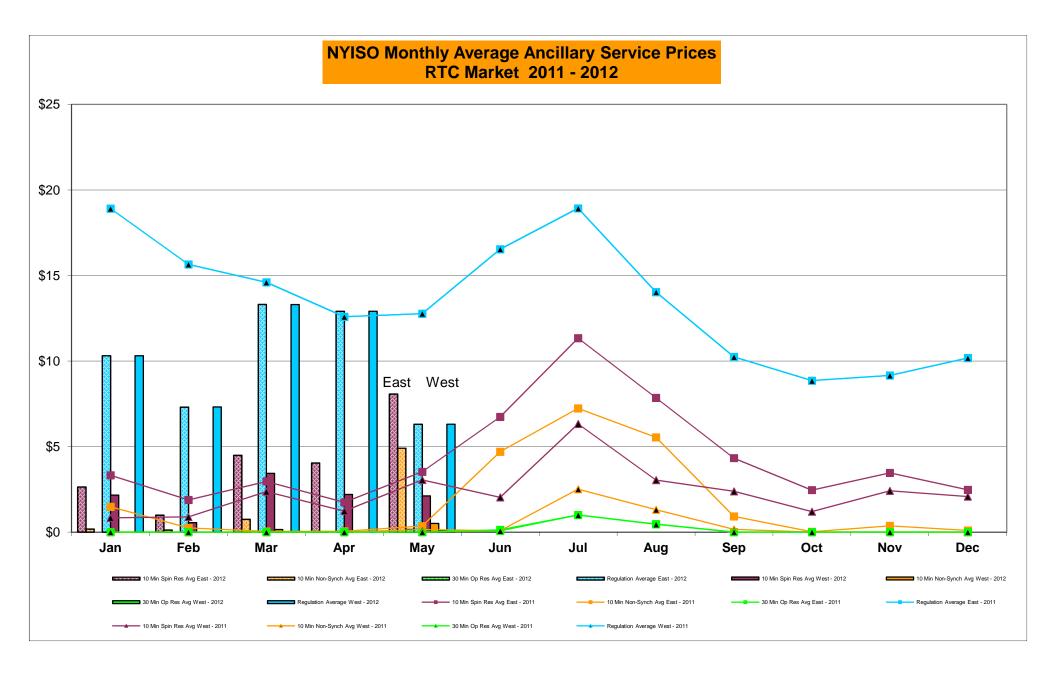
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2012

		Virtual L		Virtual S				Virtual L		Virtual Su				Virtual L	oad Bid	Virtual Su	
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-12	2,246	938	13,593	956	MHK VL	Jan-12		967	1,488	1,127	DUNWOD	Jan-12		461	1,432	189
	Feb-12	5,195	315		1,672		Feb-12		935	1,592			Feb-12	,		2,922	625
	Mar-12	5,008	874		1,856		Mar-12		101	863			Mar-12			1,039	135
	Apr-12	6,077	492		427		Apr-12	399	104	872	130		Apr-12	1,476	429	1,084	202
	May-12	3,533	808		385		May-12	255	407	860			May-12			813	333
	Jun-12						Jun-12						Jun-12				
	Jul-12						Jul-12						Jul-12				
	Aug-12						Aug-12						Aug-12				
	Sep-12						Sep-12						Sep-12				
	Oct-12						Oct-12						Oct-12				
	Nov-12						Nov-12						Nov-12				
	Dec-12						Dec-12						Dec-12				
GENESE	Jan-12	257	102	5,254	64	CAPITL	Jan-12	1,903	5,590	3,842	3,364	N.Y.C.	Jan-12	4,572	4,060	2,511	9,344
GENESE	Feb-12	553	52		271	CALLE	Feb-12		4,213	3,379		N.1.0.	Feb-12			4,839	10,519
	Mar-12	866	61	6,036	283		Mar-12	,	369	2,777	,		Mar-12		,	3,035	1,548
	Apr-12	580	151	7,104	147		Apr-12		645	2,625			Apr-12			1,188	66
	May-12	887			213		May-12		527	3,813			May-12			907	56
	Jun-12	001	110	1,000	210		Jun-12	,	021	0,010	100		Jun-12		1,700	001	00
	Jul-12						Jul-12						Jul-12				
	Aug-12						Aug-12						Aug-12				
	Sep-12						Sep-12						Sep-12				
	Oct-12						Oct-12						Oct-12				
	Nov-12						Nov-12						Nov-12				
	Dec-12						Dec-12						Dec-12				
NORTH	Jan-12	289	967	7,215	1,189	HUD VL	Jan-12	3,466	693	9,513	2,413	LONGIL	Jan-12	5,372	2,036	684	1,383
	Feb-12	332	935		1,119	HOD VE	Feb-12		794	9,250	3,788	LONGIE	Feb-12	,	1,496	473	1,303
	Mar-12	478		7,353	691		Mar-12		665	8,136			Mar-12			298	624
	Apr-12	357	85		645		Apr-12	,	1,147	11,772			Apr-12	,	943	1290	17
	May-12	127	379		686		May-12		1,356	7,084			May-12		2,303	135	69
	Jun-12	121	5/5	3,311	000		Jun-12		1,000	7,004	505		Jun-12		2,000	100	00
	Jul-12						Jul-12						Jul-12				
	Aug-12						Aug-12						Aug-12				
	Sep-12						Sep-12						Sep-12				
	Oct-12						Oct-12						Oct-12				
	Nov-12						Nov-12						Nov-12				
	Dec-12						Dec-12						Dec-12				
	1	500	4.470	00 500	4.070		1 10	505	000	000	50	11/100	1	00.050	47.400	70.050	04.040
CENTRL	Jan-12 Feb-12	526 757	1,178 1,175	,	1,270 2,011	MILLWD	Jan-12 Feb-12		206 161	929 949		NYISO	Jan-12 Feb-12	,	17,198 13,708	73,050 76,209	21,349 28,222
	Mar-12	993	1,175	25,087	1,187		Mar-12		99	736			Mar-12		5,047	73,193	8,725
	Apr-12	993	169		1,187		Apr-12		134	1,019			Apr-12	,		55,170	2,572
	May-12	630			265		May-12		540	875			May-12		,	44,469	2,572
	Jun-12	630	543	5,516	203		Jun-12		540	0/5	231		Jun-12		9,109	44,409	3,776
	Jul-12 Jul-12						Jul-12						Jul-12				
	Aug-12						Aug-12						Aug-12				
	Sep-12						Sep-12				<u> </u>		Sep-12				
	Oct-12						Oct-12				<u>                                      </u>		Oct-12				
	Nov-12						Nov-12				<u>                                      </u>		Nov-12				
	Dec-12						Dec-12						Dec-12				

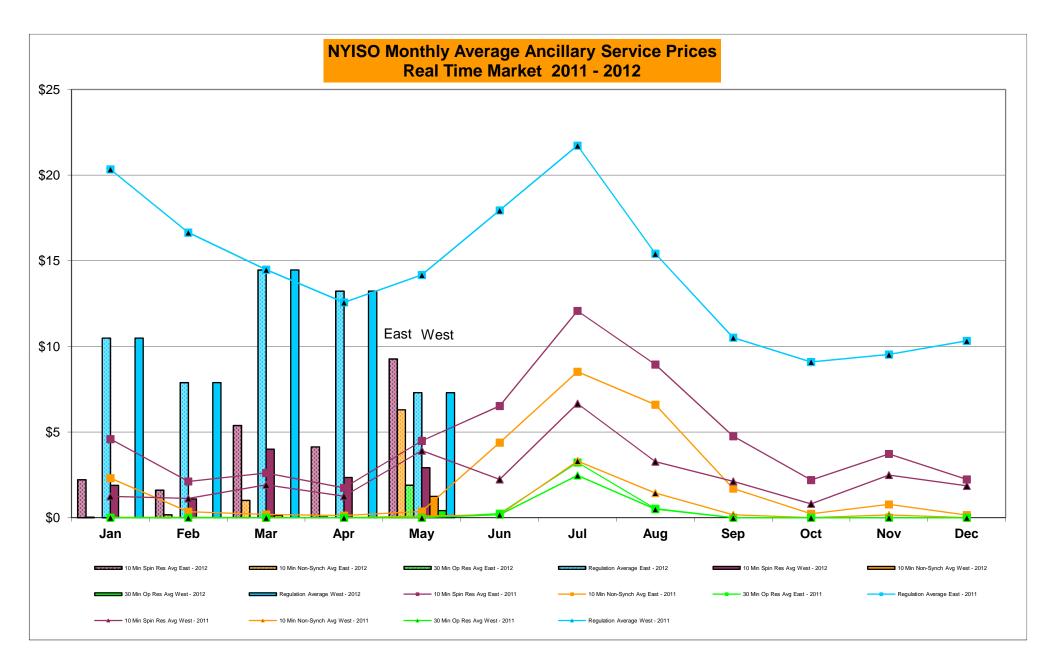


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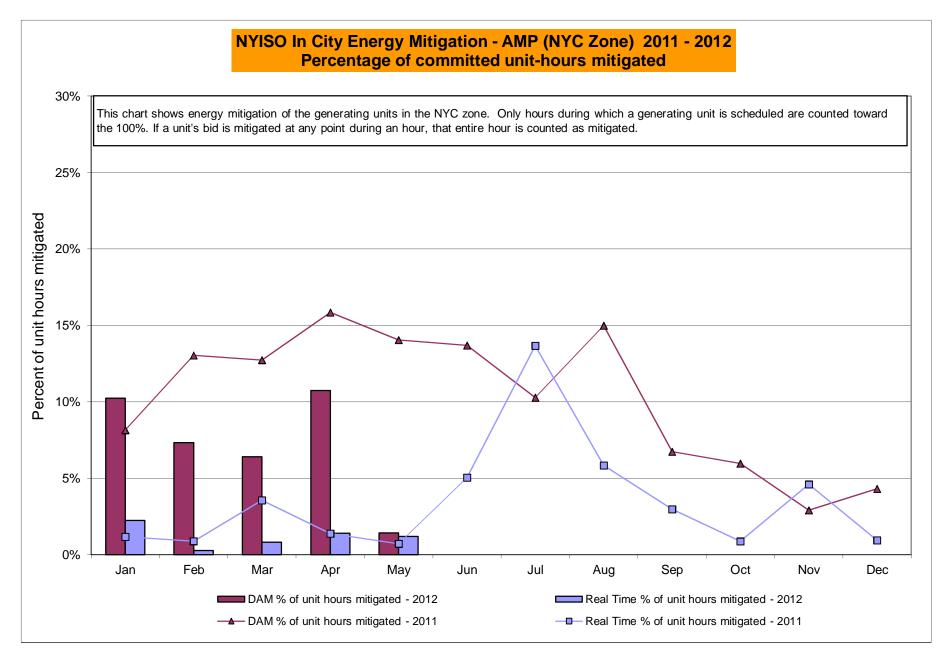


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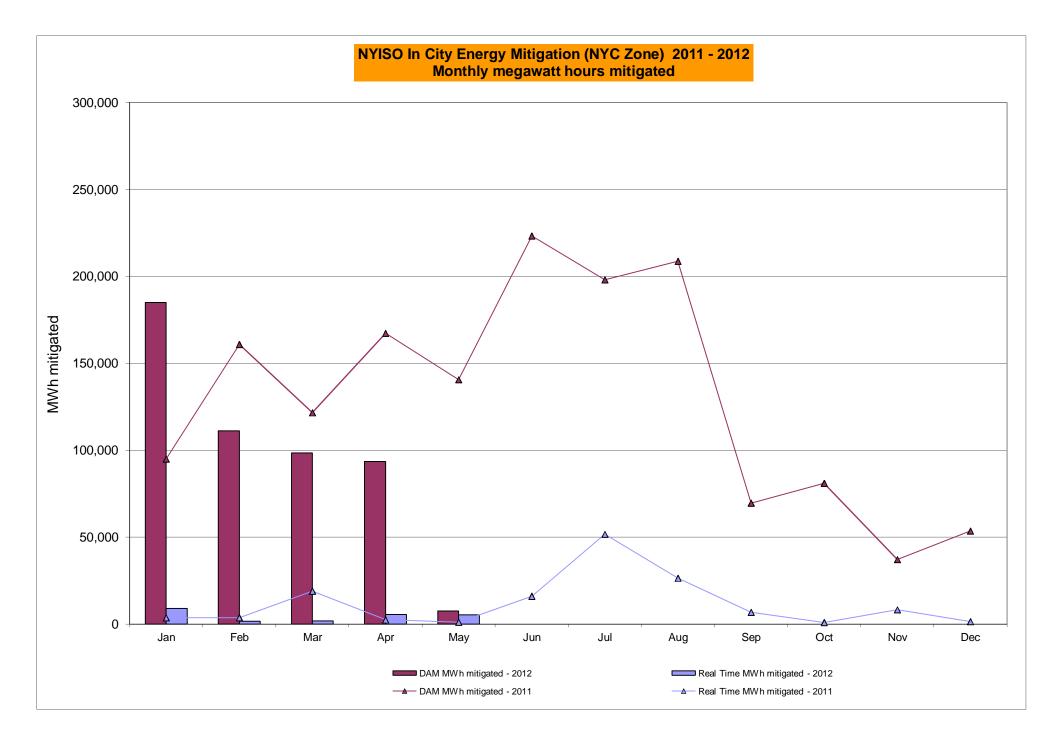


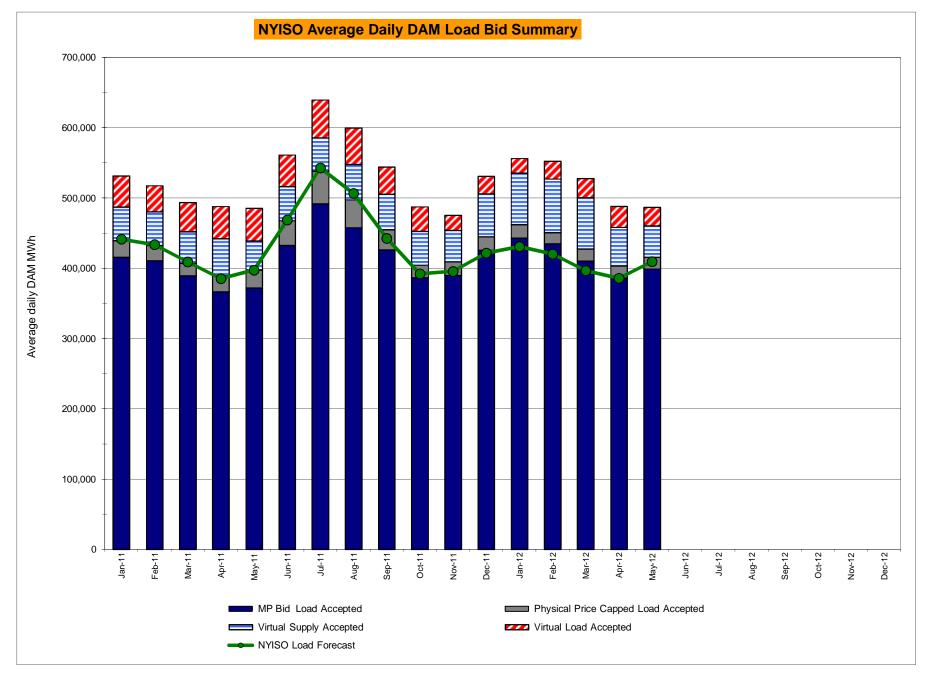
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

					neee etail	SILS - UNW	orgintoarri	100 (ψ/1111	••••			
2012	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market												
10 Min Spin East	6.26	4.01	7.11	6.44	4.62							
10 Min Spin West	1.34	0.56	3.46	3.43	2.61							
10 Min Non Synch East	4.71	3.64	3.85	3.11	2.21							
10 Min Non Synch West	0.15	0.18	0.22	0.16	0.20							
30 Min East	0.15	0.18	0.22	0.16	0.20							
30 Min West	0.15	0.18	0.22	0.16	0.20							
Regulation East	9.01	7.11	11.33	11.77	9.63							
Regulation West	9.01	7.11	11.33	11.77	9.63							
Regulation west	9.01	7.11	11.55	11.77	9.03							
RTC Market												
10 Min Spin East	2.64	0.99	4.49	4.05	8.07							
10 Min Spin West	2.16	0.55	3.43	2.20	2.11							
10 Min Non Synch East	0.17	0.13	0.75	0.02	4.90							
10 Min Non Synch West	0.00	0.00	0.15	0.00	0.50							
30 Min East	0.00	0.00	0.00	0.00	0.16							
30 Min West	0.00	0.00	0.00	0.00	0.07							
Regulation East	10.31	7.31	13.30	12.91	6.31							
Regulation West	10.31	7.31	13.30	12.91	6.31							
rogulation woot	10.01	7.01	10.00	12.01	0.01							
Real Time Market												
10 Min Spin East	2.21	1.61	5.38	4.14	9.27							
10 Min Spin West	1.89	1.09	4.00	2.34	2.92							
10 Min Non Synch East	0.03	0.17	1.01	0.03	6.31							
10 Min Non Synch West	0.00	0.00	0.13	0.00	1.24							
30 Min East	0.00	0.00	0.00	0.00	1.90							
30 Min West	0.00	0.00	0.00	0.00	0.41							
Regulation East	10.49	7.89	14.46	13.23	7.30							
Regulation West	10.49	7.89	14.46	13.23	7.30							
J												
										- ·		
<u>2011</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market								-				
Day Ahead Market 10 Min Spin East	10.15	10.66	8.76	8.87	9.30	7.35	7.18	4.47	5.46	7.76	4.48	4.72
Day Ahead Market 10 Min Spin East 10 Min Spin West	10.15 4.55	10.66 4.56	8.76 4.67	8.87 4.72	9.30 4.30	7.35 3.80	7.18 3.12	4.47 2.42	5.46	7.76 3.15	4.48 1.32	4.72 1.25
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	10.15	10.66	8.76 4.67 3.90	8.87 4.72 3.60	9.30	7.35 3.80 3.51	7.18	4.47 2.42 2.19	5.46 2.62 2.75	7.76	4.48 1.32 3.33	4.72 1.25 3.55
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	10.15 4.55	10.66 4.56	8.76 4.67	8.87 4.72 3.60 0.03	9.30 4.30	7.35 3.80 3.51 0.10	7.18 3.12	4.47 2.42	5.46 2.62 2.75 0.15	7.76 3.15	4.48 1.32	4.72 1.25 3.55 0.17
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	10.15 4.55 4.99	10.66 4.56 5.48	8.76 4.67 3.90	8.87 4.72 3.60	9.30 4.30 4.75	7.35 3.80 3.51	7.18 3.12 4.10	4.47 2.42 2.19	5.46 2.62 2.75	7.76 3.15 4.62	4.48 1.32 3.33	4.72 1.25 3.55
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	10.15 4.55 4.99 0.02	10.66 4.56 5.48 0.02	8.76 4.67 3.90 0.02	8.87 4.72 3.60 0.03	9.30 4.30 4.75 0.03	7.35 3.80 3.51 0.10	7.18 3.12 4.10 0.17	4.47 2.42 2.19 0.19	5.46 2.62 2.75 0.15	7.76 3.15 4.62 0.14	4.48 1.32 3.33 0.18	4.72 1.25 3.55 0.17
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	10.15 4.55 4.99 0.02 0.02	10.66 4.56 5.48 0.02 0.02	8.76 4.67 3.90 0.02 0.02	8.87 4.72 3.60 0.03 0.03	9.30 4.30 4.75 0.03 0.03	7.35 3.80 3.51 0.10 0.10	7.18 3.12 4.10 0.17 0.17	4.47 2.42 2.19 0.19 0.19	5.46 2.62 2.75 0.15 0.15	7.76 3.15 4.62 0.14 0.14	4.48 1.32 3.33 0.18 0.18	4.72 1.25 3.55 0.17 0.17
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West	10.15 4.55 4.99 0.02 0.02 0.02	10.66 4.56 5.48 0.02 0.02 0.02 0.02	8.76 4.67 3.90 0.02 0.02 0.02	8.87 4.72 3.60 0.03 0.03 0.03	9.30 4.30 4.75 0.03 0.03 0.03	7.35 3.80 3.51 0.10 0.10 0.10	7.18 3.12 4.10 0.17 0.17 0.17	4.47 2.42 2.19 0.19 0.19 0.19	5.46 2.62 2.75 0.15 0.15 0.15	7.76 3.15 4.62 0.14 0.14 0.14	4.48 1.32 3.33 0.18 0.18 0.18	4.72 1.25 3.55 0.17 0.17 0.17
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West	10.15 4.55 4.99 0.02 0.02 0.02 19.14	10.66 4.56 5.48 0.02 0.02 0.02 0.02 16.33	8.76 4.67 3.90 0.02 0.02 0.02 13.53	8.87 4.72 3.60 0.03 0.03 0.03 11.34	9.30 4.30 4.75 0.03 0.03 0.03 10.51	7.35 3.80 3.51 0.10 0.10 0.10 14.26	7.18 3.12 4.10 0.17 0.17 0.17 15.29	4.47 2.42 2.19 0.19 0.19 0.19 10.23	5.46 2.62 2.75 0.15 0.15 0.15 8.32	7.76 3.15 4.62 0.14 0.14 0.14 8.02	4.48 1.32 3.33 0.18 0.18 0.18 7.01	4.72 1.25 3.55 0.17 0.17 0.17 7.85
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14	10.66 4.56 5.48 0.02 0.02 0.02 16.33 16.33	8.76 4.67 3.90 0.02 0.02 0.02 13.53 13.53	8.87 4.72 3.60 0.03 0.03 0.03 11.34 11.34	9.30 4.30 4.75 0.03 0.03 0.03 10.51 10.51	7.35 3.80 3.51 0.10 0.10 0.10 14.26 14.26	7.18 3.12 4.10 0.17 0.17 0.17 15.29 15.29	4.47 2.42 2.19 0.19 0.19 0.19 10.23 10.23	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market 10 Min Spin East	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 3.32	10.66 4.56 5.48 0.02 0.02 0.02 16.33 16.33 16.33	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96	8.87 4.72 3.60 0.03 0.03 0.03 11.34 11.34 11.34	9.30 4.30 4.75 0.03 0.03 0.03 10.51 10.51 3.52	7.35 3.80 3.51 0.10 0.10 0.10 14.26 14.26 6.74	7.18 3.12 4.10 0.17 0.17 0.17 15.29 15.29 11.34	4.47 2.42 2.19 0.19 0.19 0.19 10.23 10.23 7.84	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 3.84	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 2.47
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 19.14 3.32 0.83	10.66 4.56 5.48 0.02 0.02 0.02 16.33 16.33 16.33	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37	8.87 4.72 3.60 0.03 0.03 11.34 11.34 11.34 1.74 1.23	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05	7.35 3.80 3.51 0.10 0.10 14.26 14.26 6.74 2.03	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33	4.47 2.42 2.19 0.19 0.19 0.19 10.23 10.23 7.84 3.04	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 3.84 2.23	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 2.47 2.08
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 19.14 3.32 0.83 1.48	10.66 4.56 5.48 0.02 0.02 16.33 16.33 16.33 1.88 0.89 0.25	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04	8.87 4.72 3.60 0.03 0.03 11.34 11.34 11.34 1.74 1.23 0.05	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35	7.35 3.80 3.51 0.10 0.10 14.26 14.26 6.74 2.03 4.69	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23	4.47 2.42 2.19 0.19 0.19 0.19 10.23 10.23 7.84 3.04 5.54	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 3.84 2.23 0.10	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 7.85 2.47 2.08 0.09
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 19.14 3.32 0.83 1.48 0.00	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04 0.00	8.87 4.72 3.60 0.03 0.03 11.34 11.34 11.34 1.74 1.23 0.05 0.00	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15	7.35 3.80 3.51 0.10 0.10 14.26 14.26 6.74 2.03 4.69 0.07	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51	4.47 2.42 2.19 0.19 0.19 10.23 10.23 10.23 7.84 3.04 5.54 1.31	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16	7.76 3.15 4.62 0.14 0.14 8.02 8.02 3.84 2.23 0.10 0.00	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01	4.72 1.25 3.55 0.17 0.17 7.85 7.85 2.47 2.08 0.09 0.00
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 3.32 0.83 1.48 0.00 0.00	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.0$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04 0.00 0.00	$\begin{array}{c} 8.87\\ 4.72\\ 3.60\\ 0.03\\ 0.03\\ 11.34\\ 11.34\\ 11.34\\ 1.74\\ 1.23\\ 0.05\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 9.30 \\ 4.30 \\ 4.75 \\ 0.03 \\ 0.03 \\ 10.51 \\ 10.51 \\ 3.52 \\ 3.05 \\ 0.35 \\ 0.15 \\ 0.00 \end{array}$	7.35 3.80 3.51 0.10 0.10 14.26 14.26 14.26 6.74 2.03 4.69 0.07 0.13	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51 1.01	4.47 2.42 2.19 0.19 0.19 10.23 10.23 7.84 3.04 5.54 1.31 0.47	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00	7.76 3.15 4.62 0.14 0.14 8.02 8.02 3.84 2.23 0.10 0.00 0.00	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 2.47 2.08 0.09 0.00 0.00
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West	$10.15 \\ 4.55 \\ 4.99 \\ 0.02 \\ 0.02 \\ 0.02 \\ 19.14 \\ 19.14 \\ 3.32 \\ 0.83 \\ 1.48 \\ 0.00$	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.0$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04 0.00 0.00 0.00	$\begin{array}{c} 8.87\\ 4.72\\ 3.60\\ 0.03\\ 0.03\\ 11.34\\ 11.34\\ 11.34\\ 1.23\\ 0.05\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 0.00	7.35 $3.80$ $3.51$ $0.10$ $0.10$ $14.26$ $14.26$ $6.74$ $2.03$ $4.69$ $0.07$ $0.13$ $0.07$	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51 1.01 1.00	4.47 2.42 2.19 0.19 0.19 10.23 10.23 10.23 7.84 3.04 5.54 1.31 0.47 0.45	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 0.00	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 8.02 3.84 2.23 0.10 0.00 0.00 0.00	4.48 1.32 3.33 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 0.00	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin East 10 Min Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 3.32 0.83 1.48 0.00 0.00 0.00 0.00 18.91	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65 \\ 0.01 \\ 0.01 \\ 0.01 \\ 0.00 \\ 0.$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04 0.00 0.00 0.00 14.60	$\begin{array}{c} 8.87\\ 4.72\\ 3.60\\ 0.03\\ 0.03\\ 11.34\\ 11.34\\ 11.34\\ 1.23\\ 0.05\\ 0.00\\ 0.00\\ 0.00\\ 12.59\\ \end{array}$	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 0.00 12.77	7.35 $3.80$ $3.51$ $0.10$ $0.10$ $14.26$ $14.26$ $4.20$ $6.74$ $2.03$ $4.69$ $0.07$ $0.13$ $0.07$ $16.54$	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51 1.01 1.00 18.93	4.47 2.42 2.19 0.19 0.19 10.23 10.23 10.23 7.84 3.04 5.54 1.31 0.47 0.45 14.03	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 0.00 10.24	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 3.84 2.23 0.10 0.00 0.00 0.00 9.62	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 0.00 9.16	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00 0.00 10.18
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West	$10.15 \\ 4.55 \\ 4.99 \\ 0.02 \\ 0.02 \\ 0.02 \\ 19.14 \\ 19.14 \\ 3.32 \\ 0.83 \\ 1.48 \\ 0.00$	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.0$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04 0.00 0.00 0.00	$\begin{array}{c} 8.87\\ 4.72\\ 3.60\\ 0.03\\ 0.03\\ 11.34\\ 11.34\\ 11.34\\ 1.23\\ 0.05\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 0.00	7.35 $3.80$ $3.51$ $0.10$ $0.10$ $14.26$ $14.26$ $6.74$ $2.03$ $4.69$ $0.07$ $0.13$ $0.07$	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51 1.01 1.00	4.47 2.42 2.19 0.19 0.19 10.23 10.23 10.23 7.84 3.04 5.54 1.31 0.47 0.45	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 0.00	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 8.02 3.84 2.23 0.10 0.00 0.00 0.00	4.48 1.32 3.33 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 0.00	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation East Regulation East Regulation West	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 3.32 0.83 1.48 0.00 0.00 0.00 0.00 18.91	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65 \\ 0.01 \\ 0.01 \\ 0.01 \\ 0.00 \\ 0.$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04 0.00 0.00 0.00 14.60	$\begin{array}{c} 8.87\\ 4.72\\ 3.60\\ 0.03\\ 0.03\\ 11.34\\ 11.34\\ 11.34\\ 1.23\\ 0.05\\ 0.00\\ 0.00\\ 0.00\\ 12.59\\ \end{array}$	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 0.00 12.77	7.35 $3.80$ $3.51$ $0.10$ $0.10$ $14.26$ $14.26$ $4.26$ $6.74$ $2.03$ $4.69$ $0.07$ $0.13$ $0.07$ $16.54$	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51 1.01 1.00 18.93	4.47 2.42 2.19 0.19 0.19 10.23 10.23 10.23 7.84 3.04 5.54 1.31 0.47 0.45 14.03	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 0.00 10.24	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 3.84 2.23 0.10 0.00 0.00 0.00 9.62	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 0.00 9.16	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00 0.00 10.18
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation East Regulation East Regulation West Regulation West Regulation West Regulation West Regulation West Regulation West Regulation West	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 3.32 0.83 1.48 0.00 0.00 0.00 18.91 18.91	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 18.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04 0.00 0.00 0.00 14.60 14.60	$\begin{array}{c} 8.87\\ 4.72\\ 3.60\\ 0.03\\ 0.03\\ 0.03\\ 11.34\\ 11.34\\ 11.34\\ 1.74\\ 1.23\\ 0.05\\ 0.00\\ 0.00\\ 0.00\\ 12.59\\ 12.59\\ 12.59\end{array}$	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.35 0.15 0.00 0.00 12.77 12.77	7.35 $3.80$ $3.51$ $0.10$ $0.10$ $14.26$ $14.26$ $14.26$ $6.74$ $2.03$ $4.69$ $0.07$ $0.13$ $0.07$ $16.54$ $16.54$	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51 1.01 1.00 18.93 18.93	$\begin{array}{c} 4.47\\ 2.42\\ 2.19\\ 0.19\\ 0.19\\ 0.19\\ 10.23\\ 10.23\\ 10.23\\ 7.84\\ 3.04\\ 5.54\\ 1.31\\ 0.47\\ 0.45\\ 14.03\\ 14.03\\ 14.03\\ \end{array}$	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 0.00 10.24 10.24	$\begin{array}{c} 7.76\\ 3.15\\ 4.62\\ 0.14\\ 0.14\\ 0.14\\ 8.02\\ 8.02\\ \end{array}$	4.48 1.32 3.33 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 0.00 9.16 9.16	4.72 1.25 3.55 0.17 0.17 7.85 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00 0.00 10.18 10.18
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation East Regulation East Regulation West Regulation West	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 19.14 3.32 0.83 1.48 0.00 0.00 0.00 18.91 18.91 4.59	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 18.8 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65 \\ 15.65 \\ 15.65 \\ 2.12$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 2.96 2.37 0.04 0.00 0.00 14.60 14.60 2.61	8.87 4.72 3.60 0.03 0.03 11.34 11.34 11.34 1.74 1.23 0.05 0.00 0.00 0.00 12.59 12.59 12.59	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 0.00 12.77 12.77 4.49	7.35 $3.80$ $3.51$ $0.10$ $0.10$ $14.26$ $14.26$ $4.26$ $6.74$ $2.03$ $4.69$ $0.07$ $0.13$ $0.07$ $16.54$ $16.54$ $6.52$	7.18 3.12 4.10 0.17 0.17 15.29 15.29 15.29 11.34 6.33 7.23 2.51 1.01 1.00 18.93 18.93 18.93	4.47 2.42 2.19 0.19 0.19 10.23 10.23 10.23 7.84 3.04 5.54 1.31 0.47 0.45 14.03 14.03 8.94	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 0.00 10.24 10.24 4.75	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 8.02 3.84 2.23 0.10 0.00 0.00 0.00 9.62 9.62 9.62	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 0.00 9.16 9.16 3.72	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00 0.00 10.18 10.18 10.18
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West TC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation East Regulation West Regulation West Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin West	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 19.14 3.32 0.83 1.48 0.00 0.00 0.00 18.91 18.91 4.59 1.25	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65 \\ 15.65 \\ 15.65 \\ 2.12 \\ 1.12 \\ $	$\begin{array}{c} 8.76 \\ 4.67 \\ 3.90 \\ 0.02 \\ 0.02 \\ 13.53 \\ 13.53 \\ 13.53 \\ 2.96 \\ 2.37 \\ 0.04 \\ 0.00 \\ 0.00 \\ 0.00 \\ 14.60 \\ 14.60 \\ 14.60 \\ 14.61 \\ 1.92 \end{array}$	8.87 4.72 3.60 0.03 0.03 11.34 11.34 11.34 1.74 1.23 0.05 0.00 0.00 0.00 0.00 12.59 12.59 12.59	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.35 0.35 0.15 0.00 0.00 12.77 12.77 4.49 3.92	$\begin{array}{c} 7.35\\ 3.80\\ 3.51\\ 0.10\\ 0.10\\ 14.26\\ 14.26\\ 14.26\\ 6.74\\ 2.03\\ 4.69\\ 0.07\\ 0.13\\ 0.07\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ \end{array}$	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51 1.01 1.00 18.93 18.93 18.93 12.08 6.66	4.47 2.42 2.19 0.19 0.19 10.23 10.23 7.84 3.04 5.54 1.31 0.47 0.45 14.03 14.03 14.03 8.94 3.27	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 0.00 10.24 10.24 4.75 2.12	7.76 3.15 4.62 0.14 0.14 0.14 8.02 8.02 3.84 2.23 0.10 0.00 0.00 0.00 9.62 9.62 3.03 1.50	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 7.01 3.46 2.41 0.37 0.01 0.00 0.00 9.16 9.16 9.16 3.72 2.49	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West TC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin West 10 Min Spin Kest 10 Min Spin West 10 Min Spin Kest 10 Min Spin West 10 Min Spin Kest 10 Min Spin Kest 10 Min Spin West 10 Min Spin Kest 10 Min	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 19.14 3.32 0.83 1.48 0.00 0.00 0.00 18.91 18.91 4.59 1.25 2.31	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65 \\ 15.65 \\ 2.12 \\ 1.12 \\ 0.35 \\ 0$	$\begin{array}{c} 8.76\\ 4.67\\ 3.90\\ 0.02\\ 0.02\\ 13.53\\ 13.53\\ 13.53\\ 2.96\\ 2.37\\ 0.04\\ 0.00\\ 0.00\\ 0.00\\ 14.60\\ 14.60\\ 14.60\\ 14.60\\ 2.61\\ 1.92\\ 0.19\\ \end{array}$	8.87 4.72 3.60 0.03 0.03 11.34 11.34 11.34 1.74 1.23 0.05 0.00 0.00 0.00 12.59 12.59 12.59	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.35 0.15 0.00 0.00 12.77 12.77 4.49 3.92 0.37	$\begin{array}{c} 7.35\\ 3.80\\ 3.51\\ 0.10\\ 0.10\\ 14.26\\ 14.26\\ 14.26\\ 6.74\\ 2.03\\ 4.69\\ 0.07\\ 0.13\\ 0.07\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ \end{array}$	7.18 3.12 4.10 0.17 0.17 15.29 15.29 11.34 6.33 7.23 2.51 1.01 1.00 18.93 18.93 18.93	4.47 2.42 2.19 0.19 0.19 10.23 10.23 7.84 3.04 5.54 1.31 0.47 0.45 14.03 14.03 14.03 8.94 3.27 6.60	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 0.00 10.24 10.24 4.75 2.12 1.71	$\begin{array}{c} 7.76\\ 3.15\\ 4.62\\ 0.14\\ 0.14\\ 0.14\\ 8.02\\ 8.02\\ \end{array}\\\\ \begin{array}{c} 3.84\\ 2.23\\ 0.10\\ 0.00\\ 0.00\\ 0.00\\ 9.62\\ 9.62\\ \end{array}\\\\ \begin{array}{c} 3.03\\ 1.50\\ 0.21\\ \end{array}$	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 7.01 3.46 2.41 0.37 0.01 0.00 0.00 9.16 9.16 9.16 3.72 2.49 0.77	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00 0.00 0.00 10.18 10.18 10.18 2.24 1.86 0.15
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min West Regulation East 30 Min West Regulation East Regulation West Regulation West 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	10.15 4.55 4.99 0.02 0.02 0.02 19.14 19.14 19.14 3.32 0.83 1.48 0.00 0.00 18.91 18.91 18.91 4.59 1.25 2.31 0.02	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 1.88 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65 \\ 15.65 \\ 15.65 \\ 2.12 \\ 1.12 \\ 0.35 \\ 0.02 \\ $	$\begin{array}{c} 8.76\\ 4.67\\ 3.90\\ 0.02\\ 0.02\\ 13.53\\ 13.53\\ 13.53\\ \hline 2.96\\ 2.37\\ 0.04\\ 0.00\\ 0.00\\ 14.60\\ 14.60\\ 14.60\\ \hline 14.60\\ 14.60\\ \hline 2.61\\ 1.92\\ 0.19\\ 0.00\\ \hline \end{array}$	$\begin{array}{c} 8.87\\ 4.72\\ 3.60\\ 0.03\\ 0.03\\ 0.03\\ 11.34\\ 11.34\\ 11.34\\ 11.34\\ 1.74\\ 1.23\\ 0.05\\ 0.00\\ 0.00\\ 12.59\\ 12.59\\ 12.59\\ 12.59\\ 1.74\\ 1.26\\ 0.13\\ 0.00\\ \end{array}$	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.35 0.35 0.15 0.00 0.00 12.77 12.77 4.49 3.92 0.37 0.10	$\begin{array}{c} 7.35\\ 3.80\\ 3.51\\ 0.10\\ 0.10\\ 14.26\\ 14.26\\ 14.26\\ 6.74\\ 2.03\\ 4.69\\ 0.07\\ 0.13\\ 0.07\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 2.23\\ 4.38\\ 0.18\\ \end{array}$	$\begin{array}{c} 7.18\\ 3.12\\ 4.10\\ 0.17\\ 0.17\\ 15.29\\ 15.29\\ 15.29\\ 11.34\\ 6.33\\ 7.23\\ 2.51\\ 1.01\\ 1.00\\ 18.93\\ 18.93\\ 18.93\\ 12.08\\ 6.66\\ 8.52\\ 3.31\\ \end{array}$	$\begin{array}{c} 4.47\\ 2.42\\ 2.19\\ 0.19\\ 0.19\\ 0.19\\ 10.23\\ 10.23\\ 10.23\\ \hline 7.84\\ 3.04\\ 5.54\\ 1.31\\ 0.47\\ 0.45\\ 14.03\\ 14.03\\ 14.03\\ \hline 8.94\\ 3.27\\ 6.60\\ 1.44\\ \end{array}$	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 10.24 10.24 10.24 4.75 2.12 1.71 0.17	$\begin{array}{c} 7.76\\ 3.15\\ 4.62\\ 0.14\\ 0.14\\ 0.14\\ 8.02\\ 8.02\\ \end{array}\\\\ \begin{array}{c} 3.84\\ 2.23\\ 0.10\\ 0.00\\ 0.00\\ 0.00\\ 9.62\\ 9.62\\ \end{array}\\\\ \begin{array}{c} 3.03\\ 1.50\\ 0.21\\ 0.00\\ \end{array}$	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 9.16 9.16 3.72 2.49 0.77 0.16	4.72 1.25 3.55 0.17 0.17 0.17 7.85 7.85 7.85 2.47 2.08 0.09 0.00 0.00 0.00 10.18 10.18 10.18 2.24 1.86 0.15 0.00
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West TC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 10 Min Non Synch West 10 Min Non Synch West 10 Min West 10 Min Non Synch West 10 Min West 10 Min Non Synch West 10 Min Non Synch West 10 Min Non Synch West 10 Min West	$10.15 \\ 4.55 \\ 4.99 \\ 0.02 \\ 0.02 \\ 0.02 \\ 19.14 \\ 19.14 \\ 19.14 \\ 3.32 \\ 0.83 \\ 1.48 \\ 0.00 \\ 0.00 \\ 0.00 \\ 18.91 \\ 18.91 \\ 4.59 \\ 1.25 \\ 2.31 \\ 0.02 \\ 0.00 \\ 0$	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 18.8 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 15.65 \\ 15.65 \\ 15.65 \\ 15.65 \\ 1.12 \\ 0.35 \\ 0.02 \\ 0.00 \\$	$\begin{array}{c} 8.76\\ 4.67\\ 3.90\\ 0.02\\ 0.02\\ 13.53\\ 13.53\\ 13.53\\ \hline 2.96\\ 2.37\\ 0.04\\ 0.00\\ 0.00\\ 14.60\\ 14.60\\ 14.60\\ \hline 2.61\\ 1.92\\ 0.19\\ 0.00\\ 0.00\\ 0.00\\ \hline \end{array}$	$\begin{array}{c} 8.87\\ 4.72\\ 3.60\\ 0.03\\ 0.03\\ 0.03\\ 11.34\\ 11.34\\ 11.34\\ 11.34\\ 12.3\\ 0.05\\ 0.00\\ 0.00\\ 0.00\\ 12.59\\ 12.59\\ 12.59\\ 1.74\\ 1.26\\ 0.13\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 12.77 12.77 4.49 3.92 0.37 0.10 0.00	$\begin{array}{c} 7.35\\ 3.80\\ 3.51\\ 0.10\\ 0.10\\ 14.26\\ 14.26\\ 14.26\\ 14.26\\ 6.74\\ 2.03\\ 4.69\\ 0.07\\ 0.13\\ 0.07\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 3.8\\ 0.18\\ 0.24\\ \end{array}$	$\begin{array}{c} 7.18\\ 3.12\\ 4.10\\ 0.17\\ 0.17\\ 15.29\\ 15.29\\ 15.29\\ 11.34\\ 6.33\\ 7.23\\ 2.51\\ 1.01\\ 1.00\\ 18.93\\ 18.93\\ 12.08\\ 6.66\\ 8.52\\ 3.31\\ 3.22\\ \end{array}$	$\begin{array}{c} 4.47\\ 2.42\\ 2.19\\ 0.19\\ 0.19\\ 0.19\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ \hline 7.84\\ 3.04\\ 5.54\\ 1.31\\ 0.47\\ 0.45\\ 14.03\\ 14.03\\ 14.03\\ \hline 8.94\\ 3.27\\ 6.60\\ 1.44\\ 0.52\\ \end{array}$	5.46 2.62 2.75 0.15 0.15 0.15 8.32 8.32 4.33 2.38 0.91 0.16 0.00 10.24 10.24 10.24 4.75 2.12 1.71 0.17 0.00	$\begin{array}{c} 7.76\\ 3.15\\ 4.62\\ 0.14\\ 0.14\\ 0.14\\ 8.02\\ 8.02\\ \end{array}\\ \begin{array}{c} 3.84\\ 2.23\\ 0.10\\ 0.00\\ 0.00\\ 9.62\\ 9.62\\ \end{array}\\ \begin{array}{c} 3.03\\ 1.50\\ 0.21\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 9.16 9.16 3.72 2.49 0.77 0.16 0.00	$\begin{array}{c} 4.72\\ 1.25\\ 3.55\\ 0.17\\ 0.17\\ 0.17\\ 7.85\\ 7.85\\ 7.85\\ 7.85\\ \hline\end{array}$
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West TC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min West Regulation East Regulation West Regulation West Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min Wost 10 Min Non Synch West 30 Min Kon Synch West 30 Min East 30 Min East 30 Min West	$\begin{array}{c} 10.15\\ 4.55\\ 4.99\\ 0.02\\ 0.02\\ 0.02\\ 19.14\\ 19.14\\ 19.14\\ \hline 3.32\\ 0.83\\ 1.48\\ 0.00\\ 0.00\\ 18.91\\ 18.91\\ 18.91\\ 1.25\\ 2.31\\ 0.02\\ 0.00\\ 0.00\\ 0.00\\ \hline \end{array}$	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 18.8 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65 \\ 15.65 \\ 15.65 \\ 15.65 \\ 1.12 \\ 0.35 \\ 0.02 \\ 0.00 \\$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 13.53 2.96 2.37 0.04 0.00 0.00 14.60 14.60 14.60 2.61 1.92 0.19 0.00	8.87 4.72 3.60 0.03 0.03 1.34 11.34 11.34 1.74 1.23 0.05 0.00 0.00 12.59 12.59 1.74 1.26 0.13 0.00	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 12.77 12.77 4.49 3.92 0.37 0.10 0.00 0.00	$\begin{array}{c} 7.35\\ 3.80\\ 3.51\\ 0.10\\ 0.10\\ 14.26\\ 14.26\\ 14.26\\ 14.26\\ 6.74\\ 2.03\\ 4.69\\ 0.07\\ 0.13\\ 0.07\\ 16.54\\ 16.52\\ 16.54\\$	$\begin{array}{c} 7.18\\ 3.12\\ 4.10\\ 0.17\\ 0.17\\ 15.29\\ 15.29\\ 15.29\\ 15.29\\ 15.23\\ 2.51\\ 1.01\\ 1.00\\ 18.93\\ 18.93\\ 18.93\\ 12.08\\ 6.66\\ 8.52\\ 3.31\\ 3.22\\ 2.47\\ \end{array}$	$\begin{array}{c} 4.47\\ 2.42\\ 2.19\\ 0.19\\ 0.19\\ 0.19\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ \hline 7.84\\ 3.04\\ 5.54\\ 1.31\\ 0.47\\ 0.45\\ 14.03\\ 14.03\\ 14.03\\ \hline 8.94\\ 3.27\\ 6.60\\ 1.44\\ 0.52\\ 0.50\\ \end{array}$	5.46 $2.62$ $2.75$ $0.15$ $0.15$ $0.15$ $8.32$ $8.32$ $4.33$ $2.38$ $0.91$ $0.16$ $0.00$ $10.24$ $10.24$ $10.24$ $4.75$ $2.12$ $1.71$ $0.17$ $0.00$ $0.00$	$\begin{array}{c} 7.76\\ 3.15\\ 4.62\\ 0.14\\ 0.14\\ 0.14\\ 8.02\\ 8.02\\ \end{array}\\\\ \begin{array}{c} 3.84\\ 2.23\\ 0.10\\ 0.00\\ 0.00\\ 9.62\\ 9.62\\ \end{array}\\\\ \begin{array}{c} 3.03\\ 1.50\\ 0.21\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 9.16 9.16 3.72 2.49 0.77 0.16 0.00 0.00	$\begin{array}{c} 4.72\\ 1.25\\ 3.55\\ 0.17\\ 0.17\\ 0.17\\ 7.85\\ 7.85\\ 7.85\\ \hline\end{array}$
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West TC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min West Regulation East Regulation West Regulation West 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Non Synch West 30 Min West 10 Min Non Synch West 30 Min Non Synch West 30 Min Non Synch West 30 Min Non Synch West 30 Min West	$\begin{array}{c} 10.15\\ 4.55\\ 4.99\\ 0.02\\ 0.02\\ 0.02\\ 19.14\\ 19.14\\ 19.14\\ \hline 3.32\\ 0.83\\ 1.48\\ 0.00\\ 0.00\\ 0.00\\ 18.91\\ 18.91\\ 18.91\\ 18.91\\ \hline 4.59\\ 1.25\\ 2.31\\ 0.02\\ 0.00\\ 0.00\\ 0.00\\ 20.34\\ \end{array}$	$\begin{array}{c} 10.66\\ 4.56\\ 5.48\\ 0.02\\ 0.02\\ 16.33\\ 16.33\\ 16.33\\ 16.33\\ 16.33\\ 16.33\\ 16.55\\ 15.65\\ 15.65\\ 15.65\\ 15.65\\ 15.65\\ 15.65\\ 15.65\\ 1.12\\ 0.35\\ 0.02\\ 0.00\\ 0.00\\ 16.65\\ \end{array}$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 13.53 2.96 2.37 0.04 0.00 0.00 14.60 14.60 2.61 1.92 0.19 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 14.48	8.87 4.72 3.60 0.03 0.03 1.34 11.34 11.34 1.74 1.23 0.05 0.00 0.00 0.00 12.59 1.74 1.26 0.13 0.00 1.59 1.74 1.26 0.13 0.00 0.00 0.00 0.00 0.00 0.00 1.59 1.74 1.26 0.13 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.1259 1.74 1.26 0.13 0.00	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 12.77 12.77 4.49 3.92 0.37 0.10 0.00 0.00 14.17	$\begin{array}{c} 7.35\\ 3.80\\ 3.51\\ 0.10\\ 0.10\\ 14.26\\ 14.26\\ 14.26\\ 14.26\\ 6.74\\ 2.03\\ 4.69\\ 0.07\\ 0.13\\ 0.07\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 16.54\\ 10.18\\ 0.24\\ 0.18\\ 17.94\\ \end{array}$	$\begin{array}{c} 7.18\\ 3.12\\ 4.10\\ 0.17\\ 0.17\\ 15.29\\ 15.29\\ 15.29\\ 15.29\\ 11.34\\ 6.33\\ 7.23\\ 2.51\\ 1.01\\ 1.00\\ 18.93\\ 18.93\\ 18.93\\ 12.08\\ 6.66\\ 8.52\\ 3.31\\ 3.22\\ 2.47\\ 21.72\\ \end{array}$	$\begin{array}{c} 4.47\\ 2.42\\ 2.19\\ 0.19\\ 0.19\\ 0.19\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ \hline 7.84\\ 3.04\\ 5.54\\ 1.31\\ 0.47\\ 0.45\\ 14.03\\ 14.03\\ \hline 8.94\\ 3.27\\ 6.60\\ 1.44\\ 0.52\\ 0.50\\ 15.41\\ \end{array}$	5.46 $2.62$ $2.75$ $0.15$ $0.15$ $0.15$ $8.32$ $8.32$ $4.33$ $2.38$ $0.91$ $0.16$ $0.00$ $10.24$ $10.24$ $10.24$ $4.75$ $2.12$ $1.71$ $0.17$ $0.00$ $0.00$ $10.51$	$\begin{array}{c} 7.76\\ 3.15\\ 4.62\\ 0.14\\ 0.14\\ 0.14\\ 8.02\\ 8.02\\ \end{array}\\\\ \begin{array}{c} 3.84\\ 2.23\\ 0.10\\ 0.00\\ 0.00\\ 0.00\\ 9.62\\ 9.62\\ \end{array}\\\\ \begin{array}{c} 3.03\\ 1.50\\ 0.21\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.34\\ \end{array}$	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 9.16 9.16 3.72 2.49 0.77 0.16 0.00 0.00 9.53	$\begin{array}{c} 4.72\\ 1.25\\ 3.55\\ 0.17\\ 0.17\\ 0.17\\ 7.85\\ 7.85\\ 7.85\\ \hline\end{array}$
Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West TC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min West Regulation East Regulation West Regulation West Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min Wost 10 Min Non Synch West 30 Min Kon Synch West 30 Min East 30 Min East 30 Min West	$\begin{array}{c} 10.15\\ 4.55\\ 4.99\\ 0.02\\ 0.02\\ 0.02\\ 19.14\\ 19.14\\ 19.14\\ \hline 3.32\\ 0.83\\ 1.48\\ 0.00\\ 0.00\\ 18.91\\ 18.91\\ 18.91\\ 1.25\\ 2.31\\ 0.02\\ 0.00\\ 0.00\\ 0.00\\ \hline \end{array}$	$10.66 \\ 4.56 \\ 5.48 \\ 0.02 \\ 0.02 \\ 0.02 \\ 16.33 \\ 16.33 \\ 16.33 \\ 18.8 \\ 0.89 \\ 0.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 15.65 \\ 15.65 \\ 15.65 \\ 15.65 \\ 1.12 \\ 0.35 \\ 0.02 \\ 0.00 \\$	8.76 4.67 3.90 0.02 0.02 13.53 13.53 13.53 2.96 2.37 0.04 0.00 0.00 14.60 14.60 14.60 2.61 1.92 0.19 0.00	8.87 4.72 3.60 0.03 0.03 1.34 11.34 11.34 1.74 1.23 0.05 0.00 0.00 12.59 12.59 1.74 1.26 0.13 0.00	9.30 4.30 4.75 0.03 0.03 10.51 10.51 3.52 3.05 0.35 0.15 0.00 12.77 12.77 4.49 3.92 0.37 0.10 0.00 0.00	$\begin{array}{c} 7.35\\ 3.80\\ 3.51\\ 0.10\\ 0.10\\ 14.26\\ 14.26\\ 14.26\\ 14.26\\ 6.74\\ 2.03\\ 4.69\\ 0.07\\ 0.13\\ 0.07\\ 16.54\\ 16.52\\ 16.54\\$	$\begin{array}{c} 7.18\\ 3.12\\ 4.10\\ 0.17\\ 0.17\\ 15.29\\ 15.29\\ 15.29\\ 15.29\\ 15.23\\ 2.51\\ 1.01\\ 1.00\\ 18.93\\ 18.93\\ 18.93\\ 12.08\\ 6.66\\ 8.52\\ 3.31\\ 3.22\\ 2.47\\ \end{array}$	$\begin{array}{c} 4.47\\ 2.42\\ 2.19\\ 0.19\\ 0.19\\ 0.19\\ 10.23\\ 10.23\\ 10.23\\ 10.23\\ \hline 7.84\\ 3.04\\ 5.54\\ 1.31\\ 0.47\\ 0.45\\ 14.03\\ 14.03\\ 14.03\\ \hline 8.94\\ 3.27\\ 6.60\\ 1.44\\ 0.52\\ 0.50\\ \end{array}$	5.46 $2.62$ $2.75$ $0.15$ $0.15$ $0.15$ $8.32$ $8.32$ $4.33$ $2.38$ $0.91$ $0.16$ $0.00$ $10.24$ $10.24$ $10.24$ $4.75$ $2.12$ $1.71$ $0.17$ $0.00$ $0.00$	$\begin{array}{c} 7.76\\ 3.15\\ 4.62\\ 0.14\\ 0.14\\ 0.14\\ 8.02\\ 8.02\\ \end{array}\\\\ \begin{array}{c} 3.84\\ 2.23\\ 0.10\\ 0.00\\ 0.00\\ 9.62\\ 9.62\\ \end{array}\\\\ \begin{array}{c} 3.03\\ 1.50\\ 0.21\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	4.48 1.32 3.33 0.18 0.18 0.18 7.01 7.01 3.46 2.41 0.37 0.01 0.00 9.16 9.16 3.72 2.49 0.77 0.16 0.00 0.00	$\begin{array}{c} 4.72\\ 1.25\\ 3.55\\ 0.17\\ 0.17\\ 0.17\\ 7.85\\ 7.85\\ 7.85\\ \hline\end{array}$

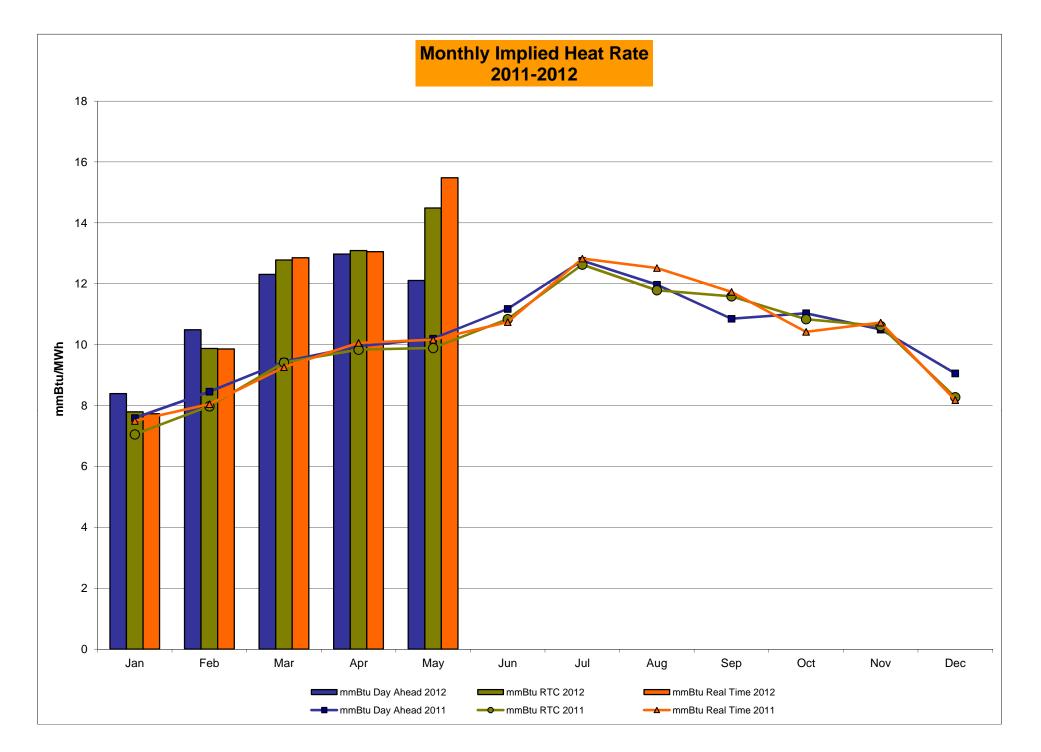


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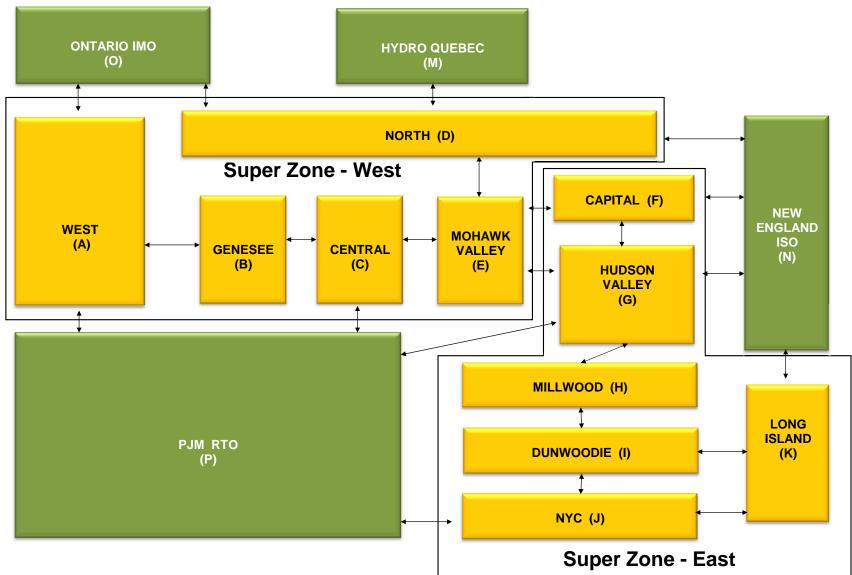




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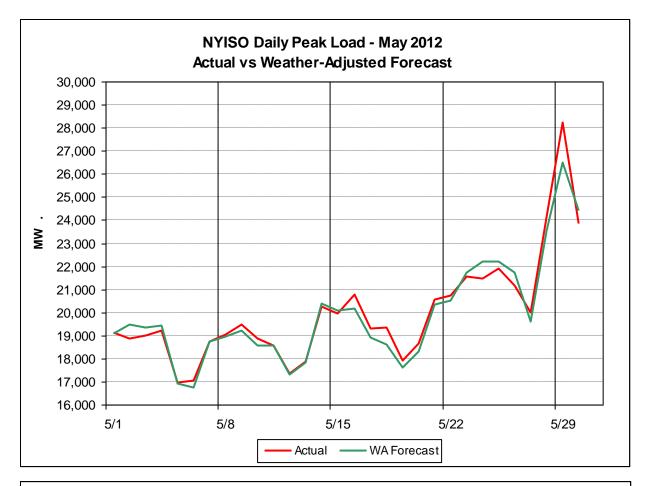


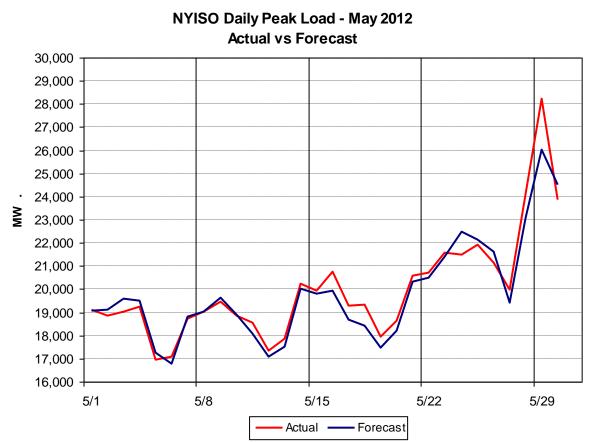
# NYISO LBMP ZONES

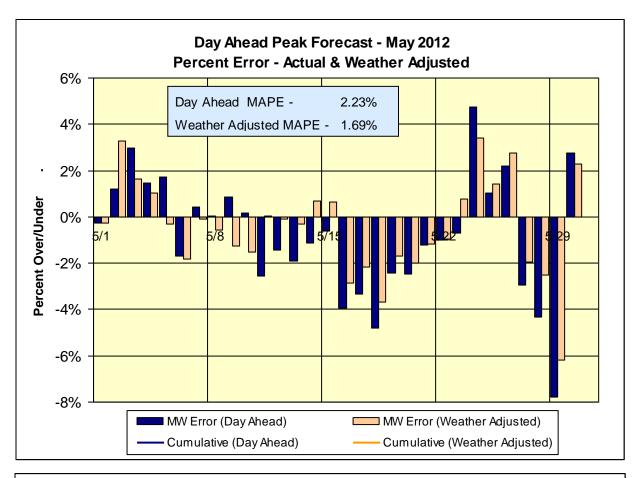


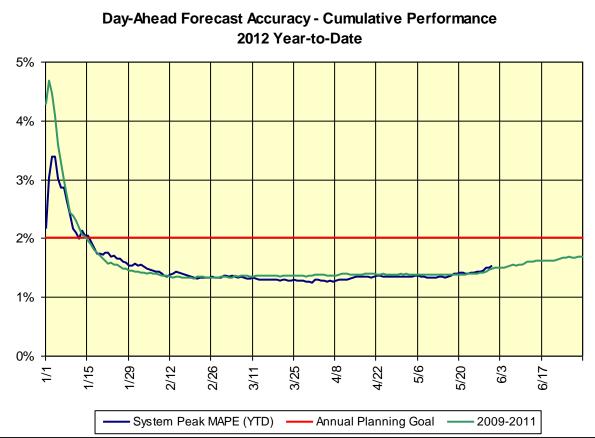
#### Billing Codes for Chart 4-C

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











# Project

## **Status and Milestone Deliverables**

	Business Intelligence Products
Market and Settlement Data Management Phase I: Broader Regional Markets	<b>Status:</b> Broader Regional Markets (BRM) initiatives will require reporting and analysis on historical BMS and MIS data beginning in 2012. Analysis will need to be performed over a large time span of data. BMS data that is currently retained for only ten days will be retained for up to five years for analysis. This deployment is scheduled for the 4 <sup>th</sup> quarter in support of Market to Market with PJM.
	<b>Deliverables:</b> To achieve BRM reporting and analysis requirements, this project will provide a platform for analytics and reporting as well as analytics of other control area data that may be required.
	<b>Status:</b> This project will add the eTariff Public Website module to <u>www.nyiso.com</u> . This deployment is targeted for the 4th quarter.
eTariff Public Website Module	<b>Deliverables:</b> The 2012 project will provide Market Participants with new functionality that allows searching and viewing capabilities for NYISO tariffs, filings and docket numbers.
	<b>Status:</b> The NYISO public website uses several older systems to maintain the content on the website. This deployment is scheduled for the 4 <sup>th</sup> quarter.
Public Website: Publishing Process	<b>Deliverables:</b> This project will replace the current content management technology and the portal technology with a single, more efficient, and cost-effective solution using Microsoft SharePoint to maintain and post documents to the public website.
	Capacity Market Products
Additional Capacity Zones	<b>Status:</b> 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. Deployment is scheduled for 2014 consistent with the next Demand Curve Reset. The functional requirements specification is complete. Software development is under way.
	<b>Deliverables:</b> The 2012 project will focus on completing the functional requirements specification for additional capacity zones and initiating the software development process.



# Project

## **Status and Milestone Deliverables**

	Demand Response Products
DSASP Direct Communication Phase 2	<ul> <li>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 is targeted for 4thQ 2012.</li> <li>Deliverables: The focus of the 2012 project is the implementation of the required rule changes and software changes.</li> </ul>
Demand Response Information System: Event Notification	<ul> <li>Status: NYISO currently handles event notification for Demand Response through a vendor who is no longer reliable in delivering notification, which has resulted in NYISO Operations having to utilize manual processes for sending event notification to stakeholders. Replacement of NYISO's existing event notification system with DRIS will enhance reliability by ensuring that demand response aggregators receive notifications in a consistent and timely manner. Integration with DRIS reduces duplication of event information and facilitates event response reporting. This deployment is targeted for 2<sup>nd</sup> quarter 2012.</li> <li>Deliverables: The focus of the project in 2012 is the implementation of a replacement of the event notification vendor to allow for integration with the Demand Response Information System (DRIS).</li> </ul>
Demand Response – Real Time Energy Market	<ul> <li>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. Market Design approval is targeted for 4<sup>th</sup> quarter 2012.</li> <li>Deliverables: Market Design Approval is the focus of the project in 2012.</li> </ul>
Order 745 – Day Ahead Demand Response Program (DADRP) Compliance	<ul> <li>Status: NYISO will implement the net benefits test based on the compliance filing submitted in 2011. Also, as part of the compliance obligation, NYISO will conduct a study to evaluate the feasibility of incorporating a dynamic net benefits test into the day-ahead and real-time unit commitment and scheduling processes. Implementation of the net benefits test was scheduled for a March deployment; however, as of March 8, 2012, FERC has not responded to NYISO's August 2011 compliance filing on the net benefits test; NYISO notified FERC in mid-February that it would not be able to implement on the proposed effective without an answer from FERC; project is temporarily reprioritized pending a response from FERC. A compliance filing detailing the results of the feasibility study is due to FERC on September 21, 2012.</li> <li>Deliverables: The focus of this project in 2012 is the implementation of the Net Benefits test as filed with FERC in 2011 and completion of the dynamic net benefits study.</li> </ul>



# Project

## **Status and Milestone Deliverables**

	Energy Markets Products
Ancillary Services Mitigation	<b>Status:</b> 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 4 <sup>th</sup> quarter of 2011. Tariff changes and software changes are planned for 4 <sup>th</sup> quarter 2012.
Anchary Services Miligation	<b>Deliverables:</b> This project will focus on implementation of required tariff changes and software changes to support the market design.
Market to Market Coordination - PJM	<ul> <li>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 flow gates could not be addressed until the NYISO had developed or procured a market flow calculator. In 2011 the NYISO implemented the market flow calculator and continued to work with PJM to meet the 2010 FERC Order to implement Market to Market coordination. The software deployment is targeted for 4<sup>th</sup> quarter 2012.</li> <li>Deliverables: The focus of this project in 2012 is to deploy all of the required software changes to enable Market to</li> </ul>
	Market coordination between PJM and NY.
Interregional Transaction Coordination Phases I and III	<b>Status:</b> 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. Phase I is complete. Phase III is targeted for deployment in June 2012.
	<b>Deliverables:</b> The focus of this project in 2012 is to deliver the necessary software enhancements and tools to implement intra-hour energy transaction scheduling with PJM.
Interregional Transaction Coordination Phase IV – ISO-NE Intra-hour Transaction Scheduling (IRIS)	<b>Status:</b> This project expands upon the work completed in Phases I and III 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." The tariff filing was submitted in 4 <sup>th</sup> Q 2011. The Architectural Design Specification is targeted for 4 <sup>th</sup> quarter 2012.
	<b>Deliverables:</b> The focus of the project in 2012 is to complete the Architectural Design Specification.
Interregional Transaction Coordination	Status: This project expands upon the work of Phase 4 by leveraging the designs with New England on Coordinated



Project	Status and Milestone Deliverables
Phase V – PJM Coordinated Transaction Scheduling	Transaction Scheduling. PJM is hoping to evolve transaction scheduling with the NYISO to gain full efficiencies for both regions. A market design concept is targeted for the 4 <sup>th</sup> quarter 2012.
	<b>Deliverables:</b> The focus of this project in 2012 is the proposal of a market design concept.
Order 755: Regulation Compensation	<b>Status:</b> FERC issued Order 755 in October 2011 with a compliance filing detailing design and implementation plan due in April 2012, followed by implementation in October 2012. This project is targeted for deployment in the 4 <sup>th</sup> quarter 2012.
order 755. Regulation compensation	<b>Deliverables:</b> The focus of this project in 2012 is the deployment of software changes necessary to support NYISO's compliance filing submitted in April 2012.
Scheduling and Pricing: Enhanced Scarcity Pricing	<b>Status:</b> 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.
	<b>Deliverables:</b> The focus of this project in 2012 is stakeholder approval of the market design.
	Enterprise Technology Products
Ranger Messaging Integration	<b>Status:</b> Market to Market Coordination requires near real-time business messages to be exchanged between NYISO and the market systems of its external partners in support of the flow gate coordination process. This project will augment existing integration capabilities to include secure near real-time exchange of structured business data between NYISO's market system, PJM, and other partners. Near real-time messaging will increase as NYISO processes increasingly interact with external partners and customers. Deployment of ranger messaging integration is targeted for 4 <sup>th</sup> quarter 2012 in support of Market to Market Coordination with PJM.
	<b>Deliverables:</b> The focus of this project in 2012 is to implement a new platform to enable near real-time message exchange.
Enterprise Project Management (EPM)	<b>Status:</b> This initiative will deliver Microsoft Project 2010 in a robust, hosted environment that will provide NYISO with up- to-date project scheduling and tracking tools, centralized and consistent project reporting for improved portfolio management, and improved project team collaboration. This platform will also enable future enhancements to NYISO's project resource planning and management process. Phase I is scheduled for implementation in 2 <sup>nd</sup> quarter 2012.
Platform: Phase I	<b>Deliverables:</b> The focus of Phase I is implementation of the hosted solution combined with training and updated business process to effectively utilize the platform.

#### **Finance Products**



Project	Status and Milestone Deliverables
Bad Debt Processing Flexibility	<b>Status:</b> This project will provide NYISO the ability to place Bad Debt Losses on any invoice (Flexible Invoice Period [FIP] or Monthly) to reduce exposure and aid in timely recovery of funds. Currently, bad debt losses can only be applied to a monthly invoice, creating a potential delay of 3-4 weeks should a bad debt loss occur shortly after monthly invoice issuance This project would reduce the length of time funds are borrowed from Working Capital and reduce credit risk exposure. The software changes were successfully deployed in March. This project is complete.
	<b>Deliverables:</b> The focus of this project is implementation of the required software changes.
ICAP Weekly Invoicing Automation	<b>Status:</b> This project will automate the process of assessing ICAP charges/credits on Flexible Invoicing Period (FIP) and Monthly invoices. This is a manually intensive process today spanning multiple departments. This project would eliminate the need for manual entry and reduce the potential for errors associated with manual processes. The software deployment of these changes is planned for January 2012. This project is complete.
	<b>Deliverables:</b> The focus of this project is the automation of the existing manual process.
Transaction Credit Enhancements	<b>Status:</b> 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 is scheduled for 4 <sup>th</sup> quarter 2012 with plans to implement in 2013.
	<b>Deliverables:</b> The focus of this project in 2012 is to complete all of the software development.
	Operations & Reliability Products
Energy Management System (EMS) Visualization	<b>Status:</b> 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 is scheduled for completion in the 3 <sup>rd</sup> quarter.
VISUALUT	<b>Deliverables:</b> The focus of this project in 2012 is completion of the Architectural Design.
Phase I Meter Upgrade	<b>Status:</b> The focus of this project is to move existing and new circuits to a new configuration and to add the new building to the network, which is required in order to fully support Phase I data needs in the new control center. The Architectural Design is scheduled for completion in the 3 <sup>rd</sup> quarter.
	<b>Deliverables:</b> The focus of this project in 2012 is completion of the Architectural Design.



Project	Status and Milestone Deliverables
Hudson Transmission Partners (HTP) Controllable Tie Line	<b>Status:</b> This project would support the implementation of a new controllable tie line from PJM into NYCA. Targeted commercial date is early 2013. Software changes are targeted for 1 <sup>st</sup> quarter 2013 based on a revised schedule from HTP.
	<b>Deliverables:</b> The focus of this project in 2012 is to deploy the required software changes in support of the targeted commercial operation date.
Rest of State (ROS) DAM Mitigation Automation	<b>Status:</b> Currently MMA monitors for ROS DAM BPCG mitigation in a very labor intensive and time consuming manner. All other BPCG mitigation has been automated (i.e. DAM and RT for NYC and RT for ROS). The implementation of ROS DAM BPCG is the last remaining tariff defined full threshold BPCG mitigation that needs to be automated. Approval of the market design is targeted for 4 <sup>th</sup> quarter 2012.
	<b>Deliverables:</b> The focus of this project in 2012 is stakeholder approval of the market design.
	Planning and TCC Market Products
TCC Multi-Duration/Non-Historic Fixed- Price TCC Phase I	<b>Status:</b> 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 Fixed Price TCCs, multi-duration capability period auctions, and balance of period TCCs. NYISO completed the functional requirements in 2011 as planned. NYISO is targeting a 4 <sup>th</sup> quarter software deployment to support offering Non-Historic Fixed Price TCCs beginning with the Spring 2013 Capability Period Auction.
	<b>Deliverables:</b> The focus of this project is a software deployment in support of NYISO's Non-Historic Fixed-Price TCC Compliance Filing.
High Performance Computing for	<b>Status:</b> 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 2011. Phase II of this project will deploy MAPS on the High Performance Computing platform. This deployment is targeted for 4th quarter 2012.
Planning Studies Phase II	<b>Deliverables:</b> The focus of this project in 2012 is the implementation of the solution for MAPS.
Siemens PTI Model-on-Demand Phase II	<b>Status:</b> 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 software design is targeted for completion in the 4 <sup>th</sup> quarter 2012.
	<b>Deliverables:</b> The focus of this project in 2012 is the completion of the software design.

# Summary Description of FERC Regulatory Filings, Investigations and Rulemakings and Related Orders in NYISO Matters May 2012

Filing		Deeket	Order	Order Summers	Outcome
Date 02/28/2012	Filing Summary NYISO filing of a petition for a declaratory order re: FERC's 12/30/10 PARs allocation order in MISO Docket No. ER11-1844-000	Docket EL12-38-000	Date 05/22/2012	Order Summary FERC order granting petition on a limited basis – NYISO petition has insufficient information – it can develop cost allocation & recovery mechanism	Accepted- partial
03/06/2012	NYISO 205 filing re: day-ahead margin assurance payments to gas turbines and request for waivers	ER12-1215-000	05/08/2012	Letter order accepting revisions effective 3/7/12, as requested	Accepted
03/09/2012	NYISO errata filing re: day-ahead margin assurance payments to gas turbines and request for waivers (correct tariff records)	ER12-1215-001	05/08/2012	Letter order accepting revisions effective 3/7/12, as requested	Accepted
04/05/2012	NYISO filing of tariff revisions re: Order No. 741, MP verification of risk management procedures	ER11-3949-004	05/09/2012	FERC letter order accepting filing effective 6/30/12, as requested	Accepted
05/01/2012	NYISO answer to the answers of the Indicated NYTOs, Energy Spectrum and Riverbay Corp. re: TB 217	EL12-56-000			
05/01/2012	NYISO/PJM joint compliance filing re: market to market coordination	ER12-718-001			
05/02/2012	NYISO filing of a request for time extension, shortened notice and comment period and expedited action re: Interface Pricing compliance filing,	ER08-1281-010			
05/04/2012	NYISO motion to intervene and comments re: AES petition	EC12-93-000			
05/08/2012	NYISO motion to intervene and comment re: Con Ed/NYPA SA #1873	ER12-1624-000			
05/09/2012	NYISO filing of 2nd supplemental list of reviewing representatives re: the proposed protective order by Astoria Generating Company	EL12-58-000			
05/11/2012	NYISO filing of answering testimony of Wesley J. Yeomans, Robert Pike and Zachary G. Smith to FERC re: PAR- Related Charges of MISO/ITC Filing	ER11-1844-000			

Filing			Order		
Date	Filing Summary	Docket	Date	Order Summary	Outcome
05/18/2012	NYISO filing of a motion to intervene and comment supporting NYPA's request for limited tariff waiver and request for expedited action re: SCR registration procedure issue	ER12-1806-000			
05/21/2012	NYISO answer filing re: 4/20/12 complaint by Astoria Generating concerning NYISO's decision to not issue going-forward costs for Astoria units for the March, April, and May ICAP Spot Market Auctions	EL12-58-000			
05/23/2012	NYISO filing of supplemental comments to its 5/18/12, motion to intervene with supporting and explicatory comments concerning NYPA's request for limited tariff waiver and expedited action re: SCR registration procedure issue	ER12-1806-000			
05/24/2012	NYISO filing of an answer to the 5/4/12 Linden VFT complaint re: CRIS value	EL12-64-000			
05/29/2012	NYISO, ISONE, MISO joint filing of an answer to the Exelon comments	ER11-3949-005, ER11-3951-001			
05/29/2012	NYISO filing, on behalf of the ISO/RTO Council, of a motion to intervene and comment re: NERC rules concerning recovery of ISO/RTO penalty costs	RR12-8-000			
05/30/2012	NYISO annual filing: FERC Form 714 electric balancing authority area and planning area report	No docket		No order	
05/30/2012	NYISO compliance tariff filing re: new non-historic fixed price TCC product	ER12-1868-000			
05/30/2012	NYISO Filing of an LGIA SA #1757 among NYISO, NIMO, NYSEG and Nine Mile Point Nuclear Station	ER12-1869-000			
05/31/2012	NYISO filing of 3rd supplemental list of reviewing representatives re: the proposed Protective Order by Astoria Generating Company	EL12-58-000			
05/31/2012	NYISO filing of an answer to NRG's limited protest and answer re: Con Ed	ER12-1624-000			

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
	NYPA transmission agreement and related cost allocation issues				
05/31/2012	NYISO filing, on behalf of the ISO/RTO Council, of a revised motion to intervene and comment re: NERC rules concerning recovery of ISO/RTO penalty costs	RR12-8-000			