

# Monthly Report

June 2014

Rick Gonzales Rana Mukerji Robert Fernandez

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# Operations Performance Metrics Monthly Report





# June 2014 Report

# Operations & Reliability Department New York Independent System Operator



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# **June 2014 Operations Performance Highlights**

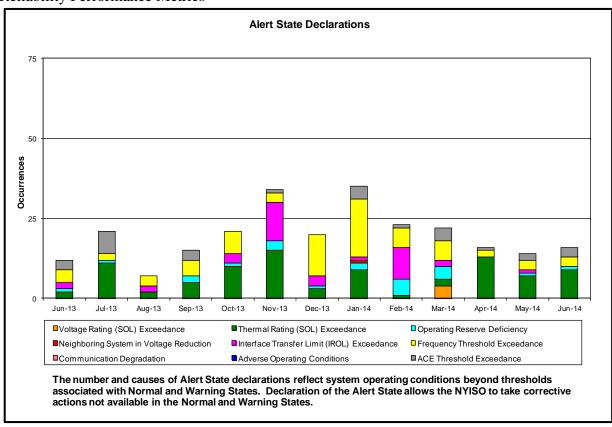
- Peak load of 27,183 MW occurred on 6/30/2014 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 17 hours of Thunder Storm Alerts were declared
  - Reestablished M2M during Storm Watch with revised rules 6/11/2014
- 0 hours of NERC TLR level 3 curtailment
- Broader Regional Market Coordination monthly value was \$0.03M
- Broader Regional Market Coordination year-to-date value was \$6.15M
- Statewide uplift cost monthly average was \$(0.53)/MWh
- Ability to update and modify fuel price for fuel indexing with the Day-Ahead bid became available on 6/29/2014
- The following table identifies the Monthly ICAP spot market prices by locality and the price changes from the prior month,

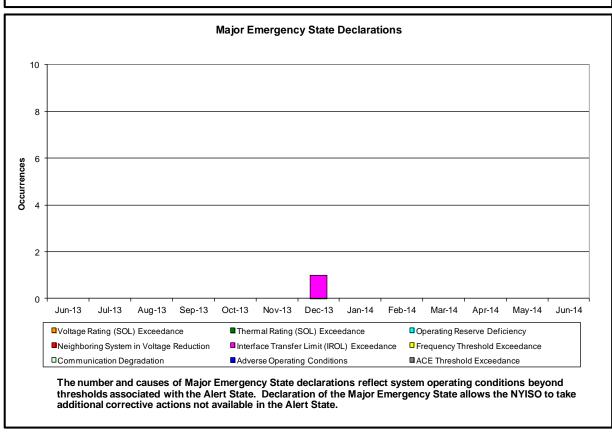
Spot Auction Price		Lower Hudson Valley	New York City	Long Island
Results	NYCA	Zones	Zone	Zone
July 2014 Spot Price	\$6.21	\$12.35	\$18.84	\$6.44
Change from Prior	(\$0.11			
Month	)	(\$0.03)	(\$0.15)	\$0.02

- NYCA The -\$0.11 change in price is primarily driven by a 19.7 MW increase in SCR UCAP and a 18.2 MW ICAP increase in ISONE imports.
- NYC The -\$0.15 change in price is primarily driven by a 8.6 MW increase in SCR UCAP

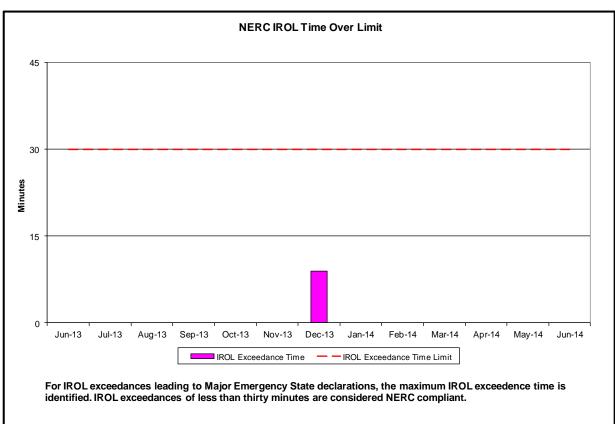


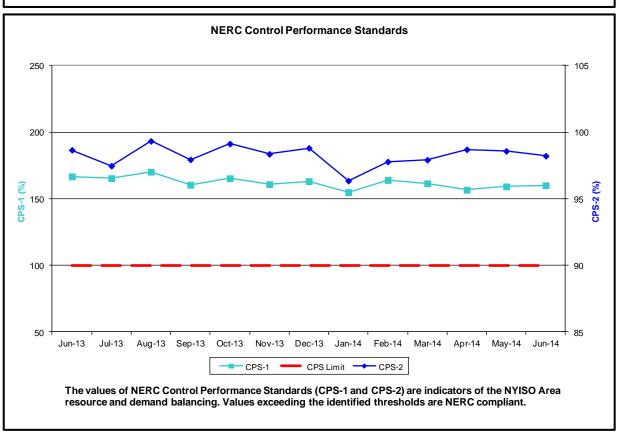
#### Reliability Performance Metrics



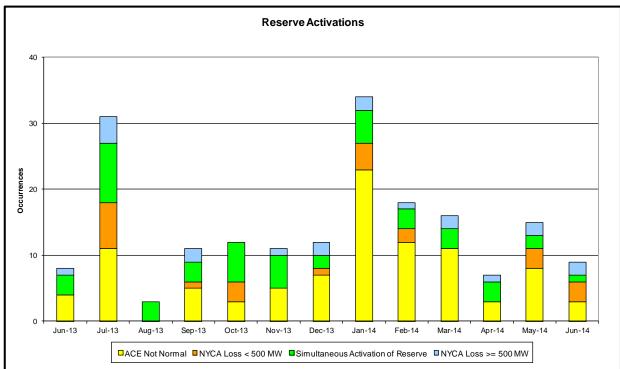




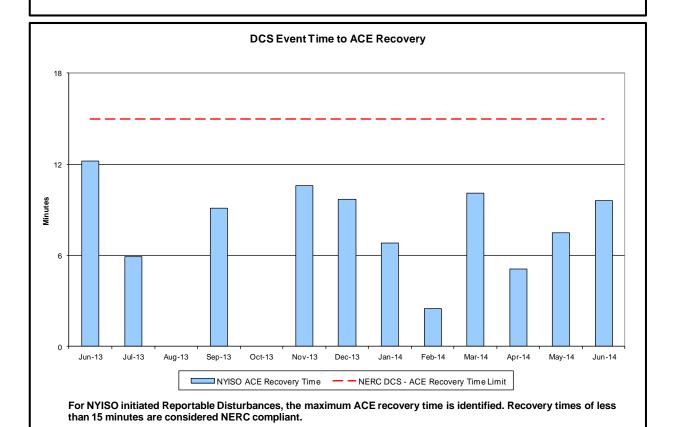




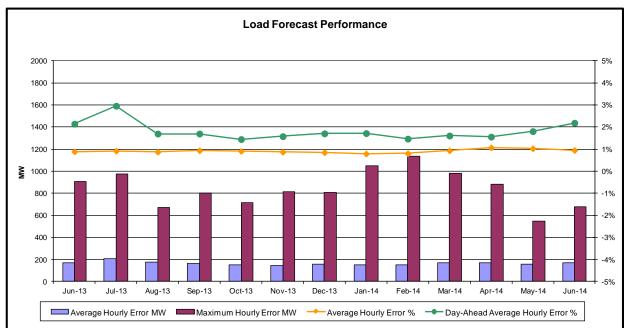




NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Simultaneous Activation of Reserves) by activating an immediate resource and demand balancing operation.



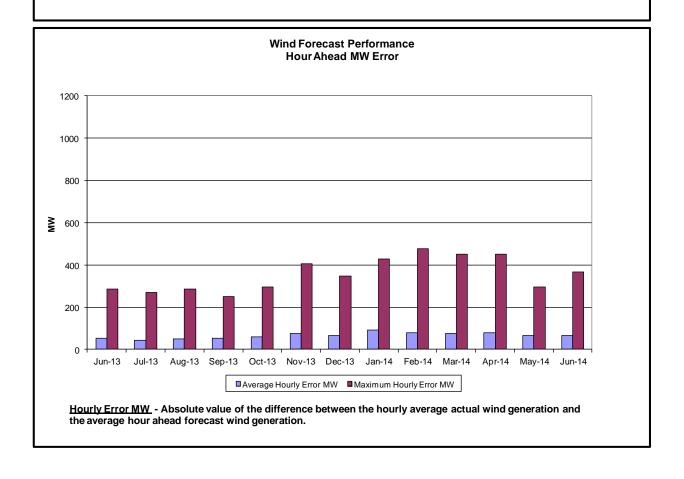




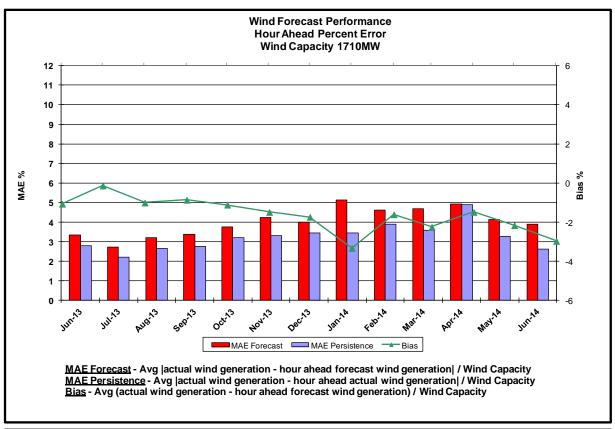
<u>Hourly Error MW</u> - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

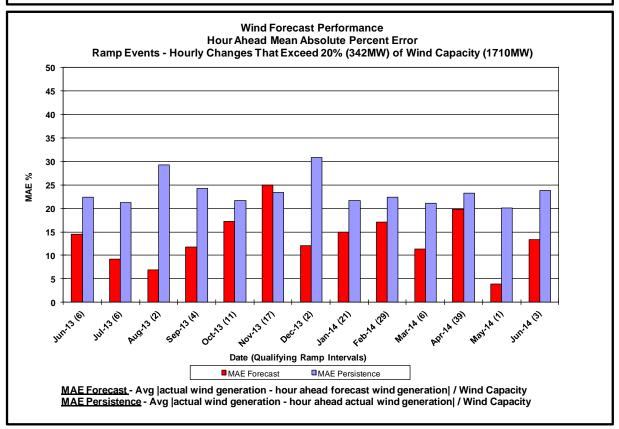
<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

<u>Day-Ahead Average Hourly Error</u> % - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

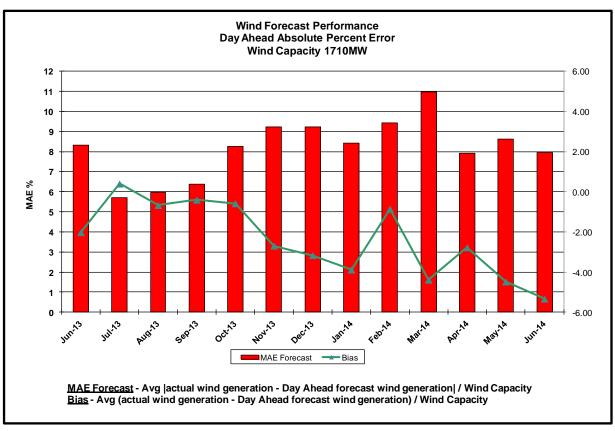


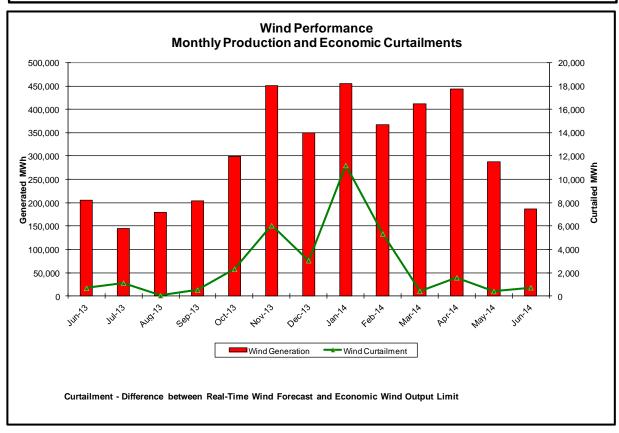




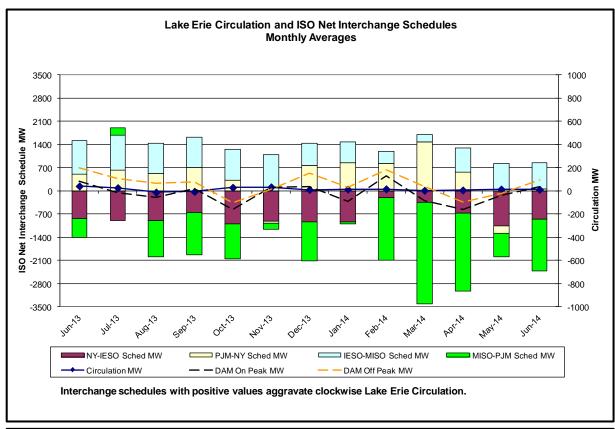


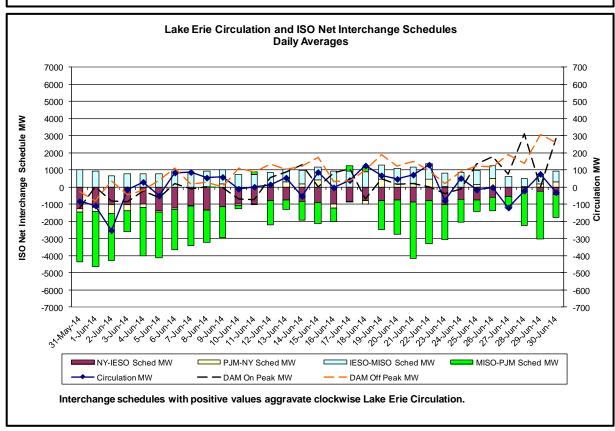






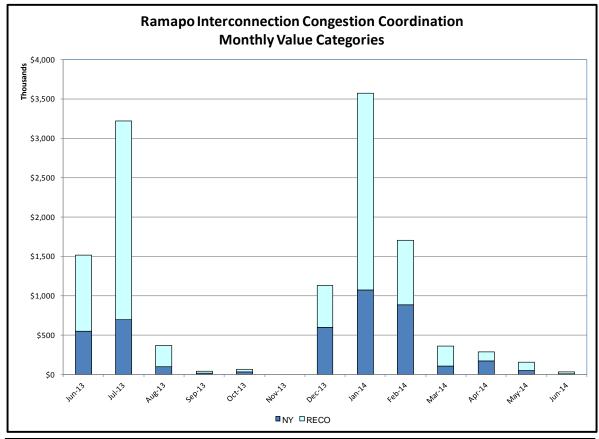


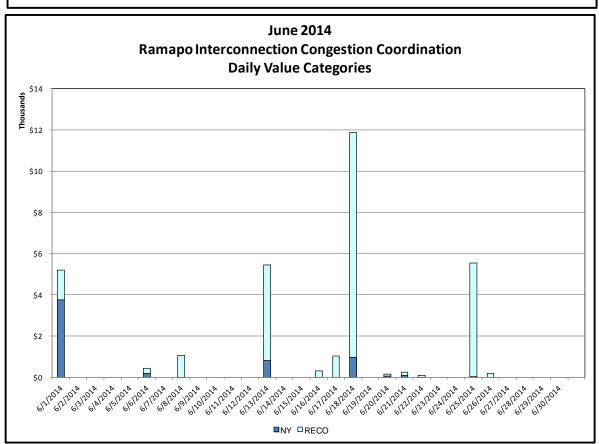






# **Broader Regional Market Performance Metrics**







#### Ramapo Interconnection Congestion Coordination

<u>Category</u> <u>Description</u>
NY Represents t

Represents the value NY realizes from Market-to-Market Ramapo Coordination. When experiencing congestion, this includes (1) the estimated savings to NY for additional deliveries into NY, plus (2) PJM compensation to NY for additional deliveries into PJM (as compared to the Ramapo Target level, excluding RECO). This is net of any settlements to

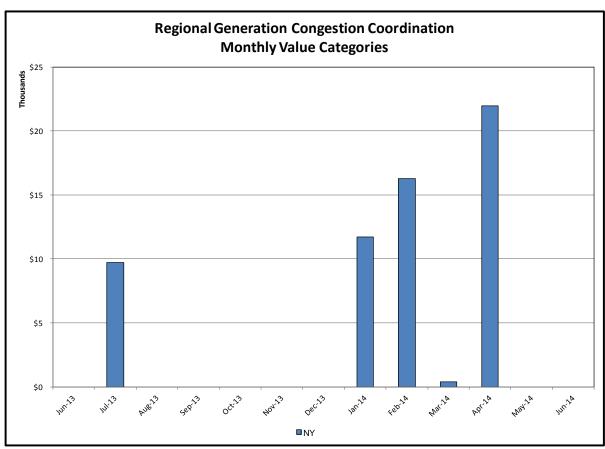
PJM when they are congested.

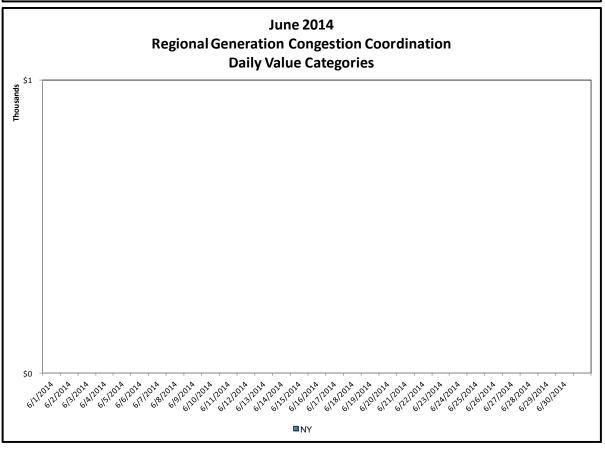
RECO Represents the value of PJM's obligation to deliver 80% of service to RECO load over

Ramapo 5018. This includes (1) the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018, plus (2) PJM compensation to NY for NYCA congestion

for the under-delivery or inability to deliver service to RECO load over Ramapo 5018.









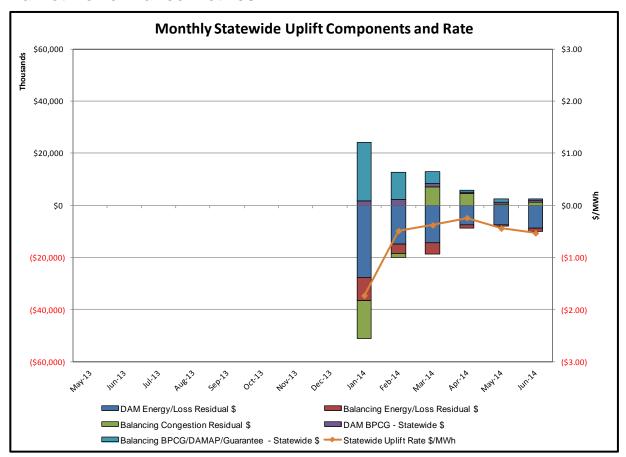
#### **Regional Generation Congestion Coordination**

<u>Category</u> NY

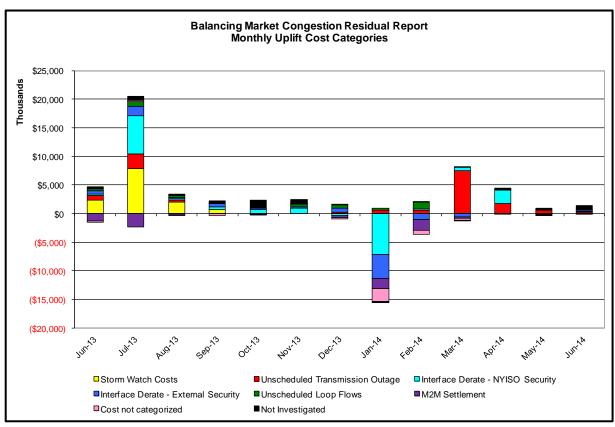
 $\underline{\textbf{\textit{Description}}}$  NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization of PJM's generation resources to directly address Western or Central NY transmission congestion.

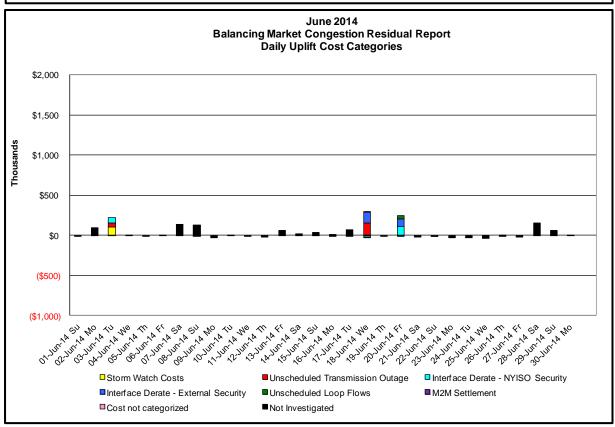


## **Market Performance Metrics**







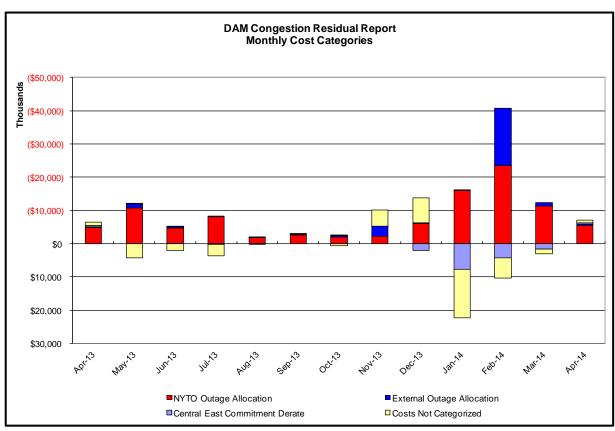


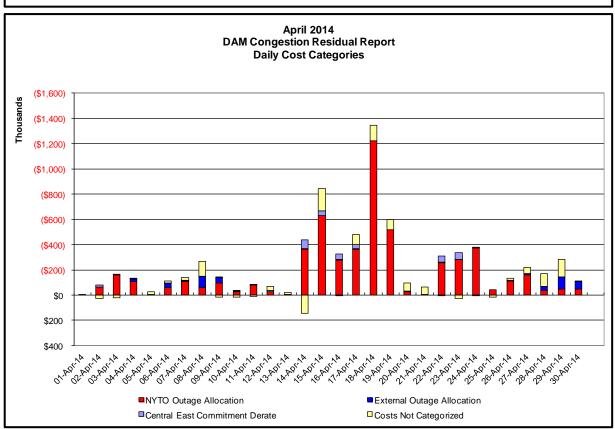


Day's i	nvestigated in June: 3	,18,20	
Event	Date (yyyymmdd)	Hours	Description
	6/3/2014	16-22	Thunder storm Alert
	6/3/2014	0,7-16	Forced outage Chateaugay DC Poles #1 & #2
	6/3/2014		Derate Gowanus-Greenwood 138kV (#42232) for I/o TWR:GOETHALS 22 & 21
	6/3/2014	7,12-17	Derate Niagara-Packard 230kV (#62) for I/o TWR:NIAGARA 61 & 64
	6/18/2014	0	Thunder storm Alert
	6/18/2014	8-15	Forced outage Moses-Adirondack 345kV (#MA2)
	6/18/2014	9,14,15	Forced outage Farragut-E13St Sta 345kV (#45) & W49 St-E13 St Sta 345kV (#M54)
	6/18/2014	6,7,16	Uprate Freeport-Newbridge 138kV (#461)
	6/18/2014	16,17	Uprate Freshkills-Willowbrook 138kV (#29211-2)
	6/18/2014	22	Derate Freshkills-Willowbrook 138kV (#29211-2) for I/o SCB:FRESHKILLS(6)
	6/18/2014	16-18	Uprate Gowanus-Greenwood 138kV (#42231)
	6/18/2014	15	Derate Gowanus-Greenwood 138kV (#42231) for I/o SCB:GOWANUS(14):42&42232
	6/18/2014	15	Derate Gowanus-Greenwood 138kV (#42232) for I/o SCB:GOWANUS(2):41&42231
	6/18/2014	21-23	Derate Gowanus-Greenwood 138kV (#42231) for I/o TWR:GOETHALS 22 & 21
	6/18/2014	21-23	Derate Gowanus-Greenwood 138kV (#42232) for I/o TWR:GOETHALS 22 & 21
	6/18/2014	13	Derate Leeds-New Scotland 345kV (#93-LN) for I/o New Scotland-Leeds 345kV (#94-LN)
	6/18/2014	16-18	Uprate Pleasant Valley-Leeds 345kV (#92) for I/o Athens-Pleasant Valley 345kV (#91)
	6/18/2014	20	NYCA DNI Ramp Limit
	6/18/2014	15,19,21,22	HQ Cedars-NY Scheduling Limit
	6/18/2014	11,12	PJM_AC - NY Scheduling Limit
	6/20/2014	22	Derate Central East
	6/20/2014	13,14	Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o NEPTUNE HVDC TIE LINE
	6/20/2014	13-22	Derate Gowanus-Greenwood 138kV (#42231) for I/o TWR:GOETHALS 22 & 21
	6/20/2014	13-22	Derate Gowanus-Greenwood 138kV (#42232) for I/o TWR:GOETHALS 22 & 21
	6/20/2014	14,15	Derate Niagara-Packard 230kV (#61) for I/o TWR:NIAGARA 62 & BP76
	6/20/2014	14-16	Derate Niagara-Packard 230kV (#62) for I/o TWR:NIAGARA 61 & 64
	6/20/2014	9-11	IESO_AC DNI Ramp Limit
	6/20/2014	13-15,18	IESO_AC-NY Scheduling Limit
	6/20/2014	2-5	NE_AC-NY Scheduling Limit
	6/20/2014	15-23	NE_NNC1385-NY Scheduling Limit
	6/20/2014	21	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Central East
	6/20/2014	14	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Niagara-Packard 230kV (#61>)

Real-Time Balan	cing Market Con	gestion Residual (Uplift Cost) Cate	<u>egories</u>					
<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					
M2M Settlement	Market-wide	Settlment result inclusive of coordinated redispatch and Ramapo flowgates						
Monthly Balancing Market Congestion	on Report Assumpti	ions/Notes						
1) Storm Watch Costs are identified as daily total uplift costs 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated. 3) Uplift costs associated with multiple event types are apportioned equally by hour								



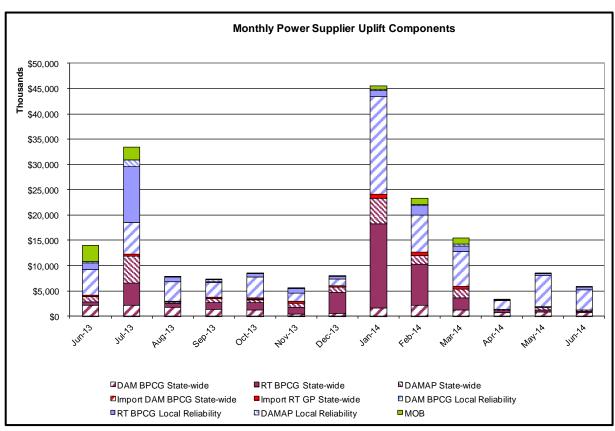


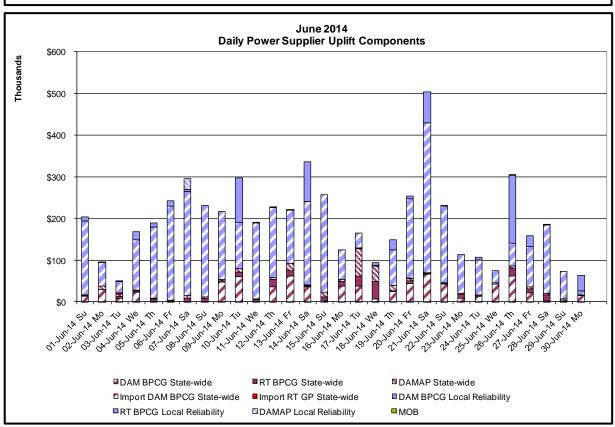




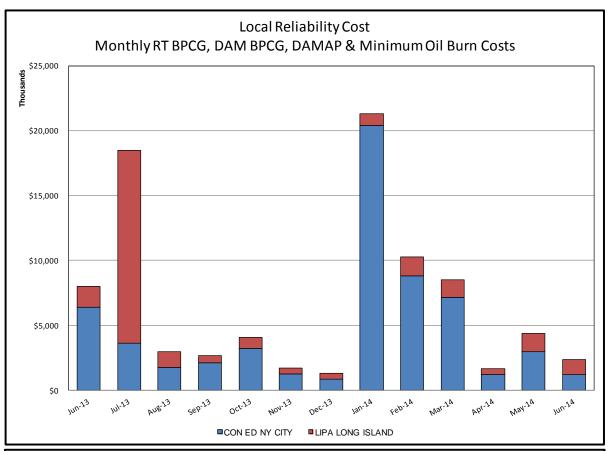
Day	-Ahead Market Co	ngestion Residual Categories	
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	Events Types Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples  DAM scheduled outage for equipment modeled inservice for the TCC Auction.
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.	

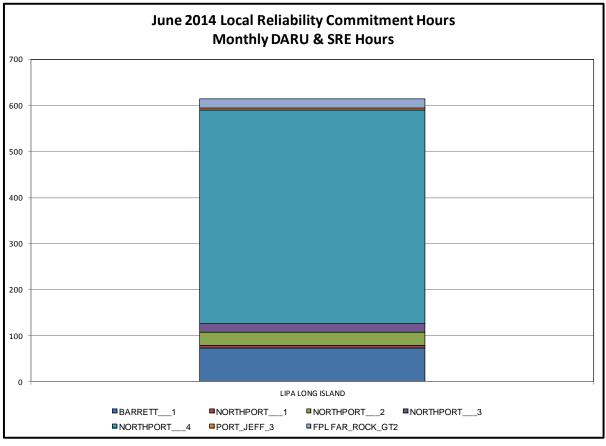




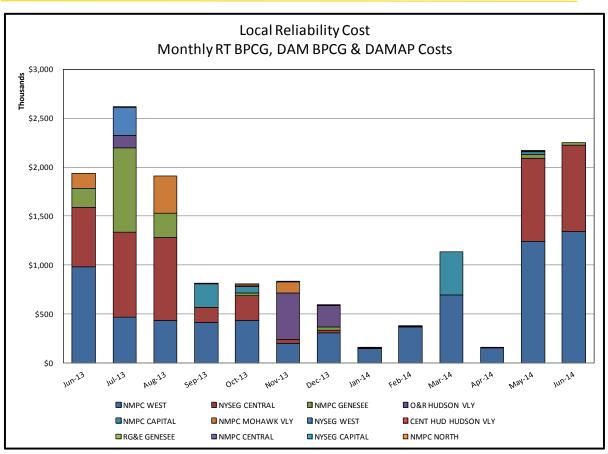


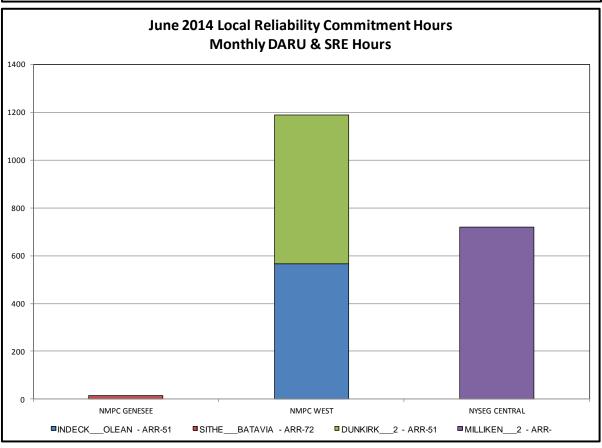




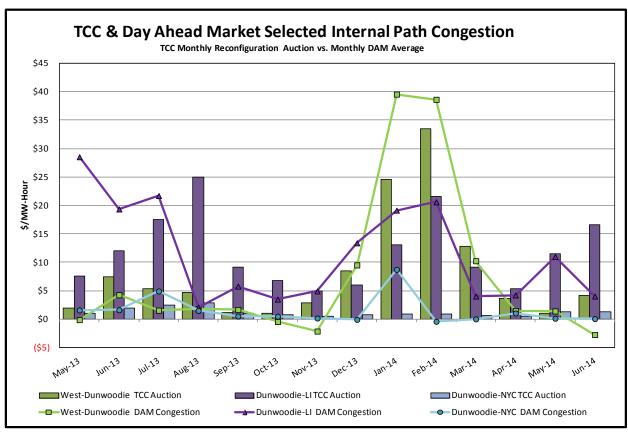


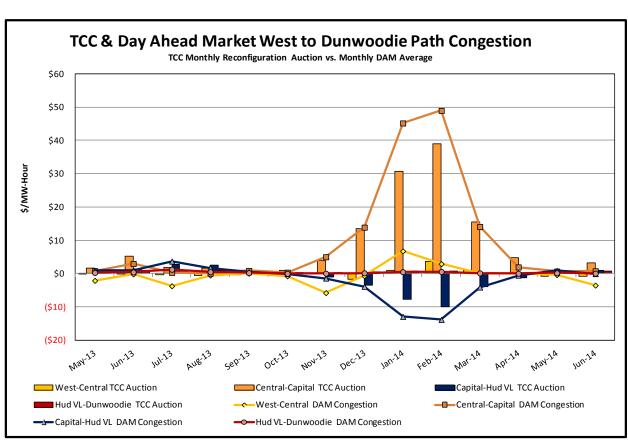




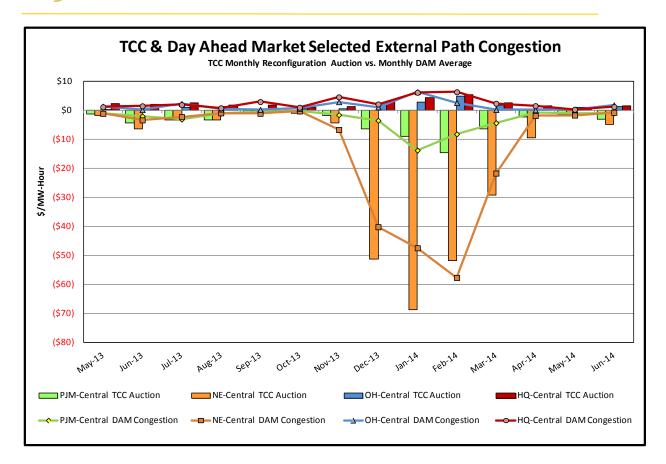




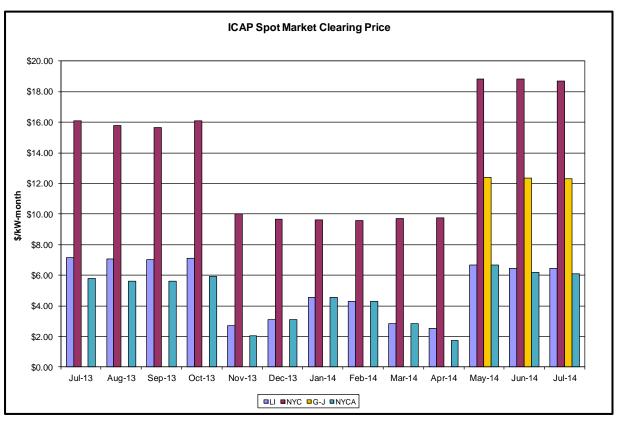


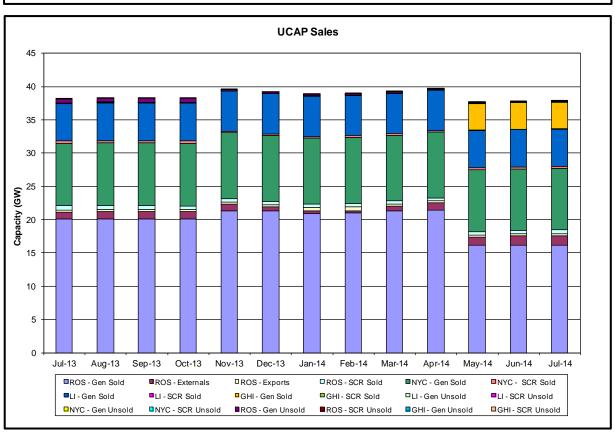










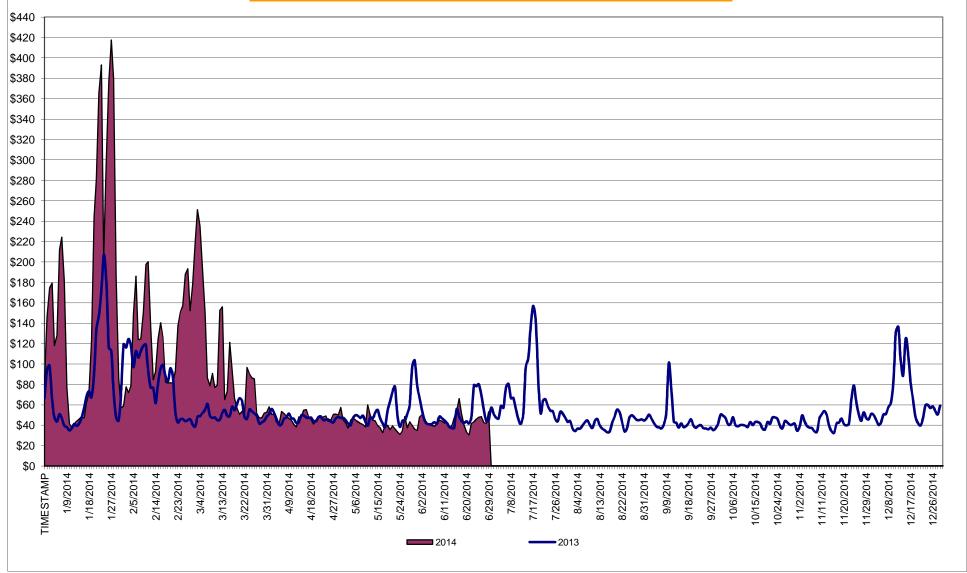


# Market Performance Highlights for June 2014

- LBMP for June is \$43.38/MWh; 8% higher than \$40.29/MWh in May 2014 and 14% lower than \$50.17/MWh in June 2013.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to May.
- June 2014 average year-to-date monthly cost of \$97.64/MWh is a 54% increase from \$63.36/MWh in June 2013.
- Average daily sendout is 456 GWh/day in June; higher than 391 GWh/day in May 2014 and lower than 469 GWh/day in June 2013.
- Natural gas prices were lower compared to the previous month and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$3.26/MMBtu, down 6% from \$3.46/MMBtu in May.
  - Jet Kerosene Gulf Coast was \$21.36/MMBtu, up from \$21.25/MMBtu in May.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$21.16/MMBtu, up from \$20.98/MMBtu in May.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.21)/MWh; lower than \$0.07/MWh in May.
    - The Local Reliability Share is \$0.32/MWh, lower than \$0.51 in May.
    - The Statewide Share is (\$0.53)/MWh, lower than (\$0.44)/MWh in May.
  - TSA \$ per NYC MWh is \$0.03/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than May.

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

2013 Annual Average \$59.13/MWh June 2013 YTD Average \$63.36/MWh June 2014 YTD Average \$97.64/MWh

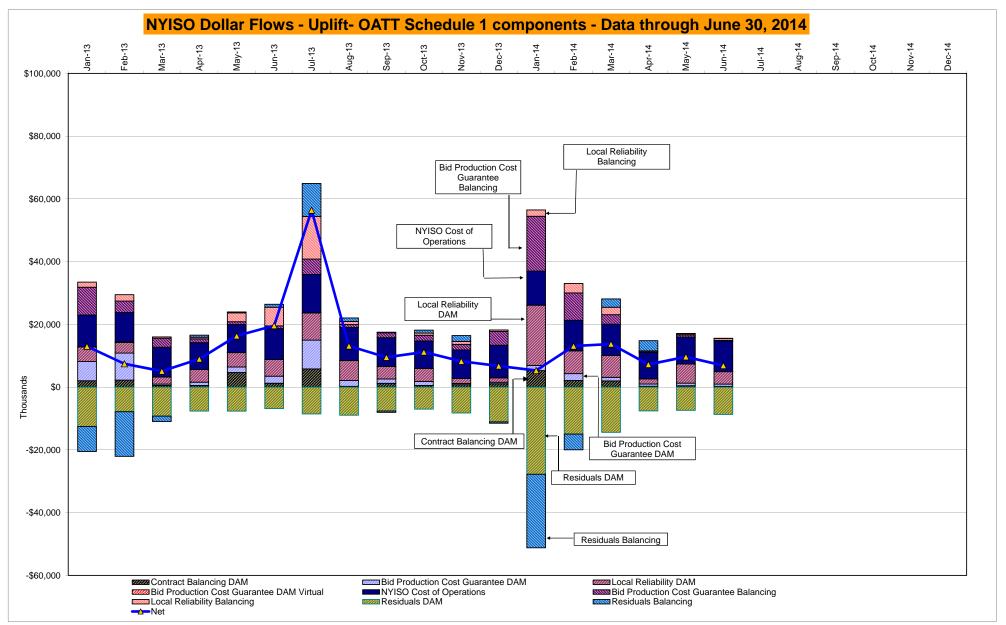


<sup>\*</sup> Excludes ICAP payments.

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

2014	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	183.25	123.16	109.57	46.08	40.29	43.38	<u>July</u>	August	September	October	November	December
NTAC	0.56	0.64	0.39	1.18	0.69	43.36 0.78						
Reserve	0.78	0.49	0.56	0.46	0.09	0.76						
Regulation	0.78	0.49	0.30	0.46	0.28	0.27						
<del>_</del>		0.21		0.13	0.12	0.12						
NYISO Cost of Operations	0.69		0.69									
Uplift	(0.36)	0.25	0.26	(0.09)	0.07	(0.21)						
Uplift: Local Reliability Share	1.38	0.73	0.64	0.15	0.51	0.32						
Uplift: Statewide Share	(1.73)	(0.49)	(0.38)	(0.24)	(0.44)	(0.53)						
Voltage Support and Black Start _	0.36	0.36	0.36	0.36	0.36	0.36						
Avg Monthly Cost	185.55	125.81	112.06	48.82	42.50	45.38						
Avg YTD Cost	185.55	157.40	142.40	121.69	108.12	97.64						
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.03						
2013	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	<u>September</u>	October	November	December
LBMP	79.77	85.76	48.94	44.47	52.21	50.17	68.49	40.81	44.24	39.85	43.30	66.41
NTAC	0.79	0.83	0.76	0.90	0.85	0.86	0.66	0.28	0.57	0.87	1.08	0.59
Reserve	0.38	0.44	0.43	0.36	0.49	0.34	0.50	0.32	0.38	0.42	0.38	0.44
Regulation	0.13	0.13	0.10	0.11	0.09	0.13	0.11	0.13	0.13	0.16	0.13	0.12
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Uplift	0.21	(0.15)	(0.33)	0.02	0.41	0.49	2.06	0.03	(0.05)	0.18	(0.07)	(0.25)
Uplift: Local Reliability Share	0.44	0.40	0.19	0.37	0.58	0.81	1.27	0.49	0.31	0.38	0.19	0.12
Uplift: Statewide Share	(0.23)	(0.55)	(0.52)	(0.35)	(0.17)	(0.31)	0.79	(0.46)	(0.36)	(0.19)	(0.25)	(0.37)
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	82.34	88.06	50.96	46.91	55.10	53.05	72.87	42.62	46.31	42.54	45.88	68.36
Trig monany occi			00.00	10.01	00.10		72.07				10.00	
Avg YTD Cost	82.34	85.08	74.02	67.80	65.46	63.36	65.10	62.27	60.74	59.30	58.24	59.13
TSA \$ per NYC MWh	0.00	0.00	0.00	0.04	0.58	0.61	1.52	0.43	0.22	0.01	0.00	0.00
2012	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	October	November	December
LBMP	44.00	32.45	28.98	28.31	34.68	47.37	63.80	46.24	39.59	39.30	50.16	44.67
NTAC	0.85	0.80	0.68	0.71	0.72	0.77	0.58	0.65	0.57	0.70	0.75	0.83
Reserve	0.35	0.25	0.38	0.32	0.13	0.36	0.36	0.22	0.23	0.29	0.40	0.26
Regulation	0.10	0.08	0.13	0.12	0.09	0.15	0.15	0.12	0.09	0.10	0.11	0.09
NYISO Cost of Operations	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Uplift	0.44	0.17	0.00	(0.18)	(0.11)	0.61	0.23	0.22	(0.33)	1.04	0.82	(0.11)
Uplift: Local Reliability Share	0.49	0.27	0.19	0.07	0.25	0.42	0.49	0.83	0.26	0.67	0.72	0.30
Uplift: Statewide Share	(0.05)	(0.10)	(0.19)	(0.25)	(0.36)	0.19	(0.26)	(0.61)	(0.59)	0.38	0.11	(0.41)
Voltage Support and Black Start	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Avg Monthly Cost	46.75	34.75	31.19	30.29	36.52	50.27	66.14	48.46	41.17	42.44	53.26	46.74
Avg Monthly Cost	+0.73		31.13	50.23	JU.JZ	50.21	00.14	40.40	71.17	74.44	JJ.20	
Avg YTD Cost	46.75	41.12	37.96	36.09	36.18	38.89	44.26	44.91	44.51	44.33	45.14	45.28
TSA \$ per NYC MWh * Excludes ICAP payments	0.00	0.00	0.00	0.00	1.52	0.45	0.85	0.46	0.59	0.00 Data r	0.00	0.00 ru Dec 2013.

\* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 7/7/2014 2:11 PM



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

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

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

#### **NYISO Markets Transactions**

<u>2014</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market MWh	16,034,264	14,409,515	14,633,570	12,101,747	12,984,458	14,719,929						
DAM LSE Internal LBMP Energy Sales	52%	50%	53%	56%	53%	54%						
DAM External TC LBMP Energy Sales	5%	7%	6%	3%	2%	3%						
DAM Bilateral - Internal Bilaterals	36%	36%	35%	33%	38%	36%						
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%						
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	1%	2%	2%	1%						
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	0%	1%	1%						
Balancing Energy Market MWh	-240,397	-285,718	-113,985	58,263	-503,552	-553,748						
Balancing Energy LSE Internal LBMP Energy Sales	-237%	-208%	-298%	-170%	-134%	-114%						
Balancing Energy External TC LBMP Energy Sales	109%	80%	99%	191%	22%	22%						
Balancing Energy Bilateral - Internal Bilaterals	21%	28%	70%	26%	3%	7%						
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	13%	0%	3%	0%						
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	11%	6%	26%	63%	5%	3%						
Balancing Energy Bilateral - Wheel Through Bilaterals	-5%	-6%	-11%	-11%	1%	-18%						
Transactions Summary												
LBMP	56%	56%	57%	59%	53%	55%						
Internal Bilaterals	37%	37%	36%	33%	39%	38%						
Import Bilaterals	5%	5%	5%	6%	5%	5%						
Export Bilaterals	2%	1%	2%	2%	2%	1%						
Wheels Through	1%	1%	1%	0%	1%	1%						
Market Share of Total Load	170	170	170	070	170	170						
Day Ahead Market	101.5%	102.0%	100.8%	99.5%	104.0%	103.9%						
Balancing Energy +	-1.5%	-2.0%	-0.8%	0.5%	-4.0%	-3.9%						
Total MWH	15,793,868	14,123,796	14,519,586	12,160,010	12,480,906	14,166,181						
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456						
/Welage Daily Energy Condoda World Covin	+10	400	440	000	331	400						
2013	January	February	March	Anril	May	June	.lulv	August	September	October	November	December
2013	January	February	<u>March</u>	<u>April</u>	<u>May</u>	June	<u>July</u>	August	September	October	November	December
Day Ahead Market MWh	15,140,096	14,116,189	14,250,091	12,963,905	13,451,310	14,872,971	17,974,314	16,090,437	14,021,472	13,411,499	13,692,854	15,406,816
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	15,140,096 56%	14,116,189 55%	14,250,091 56%	12,963,905 57%	13,451,310 56%	14,872,971 57%	17,974,314 59%	16,090,437 57%	14,021,472 55%	13,411,499 51%	13,692,854 52%	15,406,816 52%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales	15,140,096 56% 4%	14,116,189 55% 6%	14,250,091 56% 3%	12,963,905 57% 3%	13,451,310 56% 1%	14,872,971 57% 1%	17,974,314 59% 1%	16,090,437 57% 0%	14,021,472 55% 0%	13,411,499 51% 0%	13,692,854 52% 3%	15,406,816 52% 6%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	15,140,096 56% 4% 38%	14,116,189 55% 6% 37%	14,250,091 56% 3% 38%	12,963,905 57% 3% 37%	13,451,310 56% 1% 37%	14,872,971 57% 1% 36%	17,974,314 59% 1% 33%	16,090,437 57% 0% 36%	14,021,472 55% 0% 38%	13,411,499 51% 0% 41%	13,692,854 52% 3% 40%	15,406,816 52% 6% 36%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals	15,140,096 56% 4% 38% 0%	14,116,189 55% 6% 37% 0%	14,250,091 56% 3% 38% 0%	12,963,905 57% 3% 37% 0%	13,451,310 56% 1% 37% 3%	14,872,971 57% 1% 36% 4%	17,974,314 59% 1% 33% 5%	16,090,437 57% 0% 36% 5%	14,021,472 55% 0% 38% 4%	13,411,499 51% 0% 41% 5%	13,692,854 52% 3% 40% 4%	15,406,816 52% 6% 36% 4%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals	15,140,096 56% 4% 38% 0% 1%	14,116,189 55% 6% 37% 0% 1%	14,250,091 56% 3% 38% 0% 1%	12,963,905 57% 3% 37% 0% 1%	13,451,310 56% 1% 37% 3% 1%	14,872,971 57% 1% 36% 4% 1%	17,974,314 59% 1% 33% 5% 1%	16,090,437 57% 0% 36% 5% 1%	14,021,472 55% 0% 38% 4% 1%	13,411,499 51% 0% 41% 5% 1%	13,692,854 52% 3% 40% 4% 2%	15,406,816 52% 6% 36% 4% 1%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals	15,140,096 56% 4% 38% 0% 1%	14,116,189 55% 6% 37% 0% 1% 1%	14,250,091 56% 3% 38% 0% 1%	12,963,905 57% 3% 37% 0% 1% 1%	13,451,310 56% 1% 37% 3% 1% 1%	14,872,971 57% 1% 36% 4% 1% 1%	17,974,314 59% 1% 33% 5% 1%	16,090,437 57% 0% 36% 5% 1%	14,021,472 55% 0% 38% 4% 1% 1%	13,411,499 51% 0% 41% 5% 1%	13,692,854 52% 3% 40% 4% 2% 1%	15,406,816 52% 6% 36% 4% 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	15,140,096 56% 4% 38% 0% 1% -471,167	14,116,189 55% 6% 37% 0% 1% 1% -648,574	14,250,091 56% 3% 38% 0% 1% 1% -501,253	12,963,905 57% 3% 37% 0% 1% 1% -525,278	13,451,310 56% 1% 37% 3% 1% 1% -501,948	14,872,971 57% 1% 36% 4% 1% 1% -669,315	17,974,314 59% 1% 33% 5% 1% 1% -294,946	16,090,437 57% 0% 36% 5% 1% 1%	14,021,472 55% 0% 38% 4% 1% 1% -759,051	13,411,499 51% 0% 41% 5% 1% 1%	13,692,854 52% 3% 40% 4% 2% 1% -579,298	15,406,816 52% 6% 36% 4% 1% 1% -531,521
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales	15,140,096 56% 4% 38% 0% 1% 1% -471,167 -131%	14,116,189 55% 6% 37% 0% 1% 1% -648,574 -117%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127%	12,963,905 57% 3% 37% 0% 1% 1% -525,278 -123%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133%	14,872,971 57% 1% 36% 4% 1% 1% -669,315 -115%	17,974,314 59% 1% 33% 5% 1% 1% -294,946 -189%	16,090,437 57% 0% 36% 5% 1% 1% -915,232 -113%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134%	15,406,816 52% 6% 36% 4% 1% 1% -531,521 -130%
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	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33%	14,116,189 55% 6% 37% 0% 1% 1648,574 -117% 20%	14,250,091 56% 3% 38% 0% 1% -501,253 -127% 23%	12,963,905 57% 3% 37% 0% 1% -525,278 -123% 21%	13,451,310 56% 1% 37% 3% 1% 196 -501,948 -133% 35%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16%	17,974,314 59% 1% 33% 5% 1% 1% -294,946 -189% 78%	16,090,437 57% 0% 36% 5% 1% 1% -915,232 -113% 9%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 11%	13,411,499 51% 0% 41% 5% 1% 169 -694,291 -122% 13%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23%	15,406,816 52% 6% 36% 4% 1% 1% -531,521 -130% 16%
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	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4%	14,116,189 55% 6% 37% 0% 1% 1648,574 -117% 20% 10%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127% 23% 11%	12,963,905 57% 3% 37% 0% 1% -525,278 -123% 21% 3%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 55%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 11%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 9% 3%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 11% 6%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122% 13% 5%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4%	15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 13%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0%	14,116,189 55% 6% 37% 0% 1% -648,574 -117% 20% 10% 0%	14,250,091 56% 3% 38% 0% 1% -501,253 -127% 23% 11% 0%	12,963,905 57% 3% 37% 0% 1% -525,278 -123% 21% 3% 0%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 5% 0%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 1%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 9% 3% 0%	14,021,472 55% 0% 38% 4% 1% -759,051 -120% 11% 6% 0%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 5% 0%	-13,692,854 52% 3% 40% 4% 2% -579,298 -134% 23% 4% 0%	15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0% 5%	14,116,189 55% 6% 37% 0% 1% 1% -648,574 -117% 20% 0% 3%	14,250,091 56% 3% 38% 0% 1% -501,253 -127% 23% 11% 0% 4%	12,963,905 57% 3% 37% 0% 1% 1% -525,278 -123% 21% 3% 0% 5%	13,451,310 56% 1% 37% 3% 1% -501,948 -133% 35% 5% 0% 4%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 1% 2%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4% 3%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 9% 3% 0% 1%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 11% 6% 0% 2%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122% 13% 0% 0% 3%	-13,692,854 52% 3% 40% 4% 2% -579,298 -134% 23% 4% 0% 7%	15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 13% 0% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0%	14,116,189 55% 6% 37% 0% 1% -648,574 -117% 20% 10% 0%	14,250,091 56% 3% 38% 0% 1% -501,253 -127% 23% 11% 0%	12,963,905 57% 3% 37% 0% 1% -525,278 -123% 21% 3% 0%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 5% 0%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 1%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 9% 3% 0%	14,021,472 55% 0% 38% 4% 1% -759,051 -120% 11% 6% 0%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 5% 0%	-13,692,854 52% 3% 40% 4% 2% -579,298 -134% 23% 4% 0%	15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 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 - 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	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0% 5% -11%	14,116,189 55% 6% 37% 0% 1% 1% -648,574 -117% 20% 10% 0% 3% -16%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127% 23% 11% 0% 4% -11%	12,963,905 57% 3% 37% 0% 1% 1% -525,278 -123% 21% 3% 0% 5% -6%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 5% 0% 4% -11%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 4% 2% -9%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4% 3% -7%	16,090,437 57% 0% 36% 5% 1% 1% -915,232 -113% 9% 3% 0% 1%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 11% 6% 0% 2% 1%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122% 13% 5% 0% 3% 0%		15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 13% 0% 5% -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 - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	15,140,096 56% 4% 38% 0% 1% 1% -471,167 -131% 33% 4% 0% 5% -11%	14,116,189 55% 6% 37% 0% 1% 1% -648,574 -117% 20% 10% 0% 3% -16%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127% 23% 11% 0% 4% -11%	12,963,905 57% 3% 37% 0% 1% 1% -525,278 -123% 21% 0% 5% -6%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 5% 0% 4% -11%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 1% 2% -9%	17,974,314 59% 1% 33% 5% 1% 1% -294,946 -189% 78% 11% 4% 3% -7%	16,090,437 57% 0% 36% 5% 1% 1% -915,232 -113% 9% 0% 1% 0%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 6% 0% 2% 11%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122% 13% 5% 0% 3% 0%	-13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 1%	15,406,816 52% 6% 36% 4% 1% 1% -531,521 -130% 16% 13% 0% 5% -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 - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals	15,140,096 56% 4% 38% 0% 1% 1% -471,167 -131% 33% 4% 0% 5% -11%	14,116,189 55% 6% 37% 0% 1% 1% -648,574 -117% 20% 10% 0% 3% -16%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127% 23% 11% 0% -4% -11%	12,963,905 57% 3% 37% 0% 1% 1% -525,278 -123% 21% 3% 0% 5% -6%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 0% 4% -11%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 1% 2% -9%	17,974,314 59% 1% 33% 5% 1% 1% -294,946 -189% 78% 11% 4% 3% -7%	16,090,437 57% 0% 36% 5% 1% 1% -915,232 -113% 9% 0% 0% 0% 54% 39%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 11% 6% 0% 2% 19%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122% 13% 0% 0% 49% 43%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 1%	15,406,816 52% 6% 36% 4% 1% 1% -531,521 -130% 16% 13% 0% 5% -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 - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals	15,140,096 56% 4% 38% 0% 1% 1% -471,167 -131% 33% 4% 0% 5% -11%	14,116,189 55% 6% 37% 0% 1% 1648,574 -117% 20% 10% 0% 3% -16%	14,250,091 56% 3% 38% 0% 1% 150,253 -127% 23% 11% 0% 4% -11% 58% 40% 0%	12,963,905 57% 3% 37% 0% 1% 1-525,278 -123% 21% 0% 5% -6%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 0% 4% -11%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% -9% 56% 38% 4%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4% 3% -7% 59% 34% 5%	16,090,437 57% 0% 36% 5% 1% 195,232 -113% 9% 3% 0% 1% 0% 54% 39% 55%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 11% 6% 0% 2% 1% 41% 44%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122% 13% 5% 0% 3% 0%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 1% 41% 44%	15,406,816 52% 6% 36% 4% 1% 1% -531,521 -130% 16% 13% 0% 5% -4% 56% 38% 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 - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Export Bilaterals  Import Bilaterals  Export Bilaterals	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0% 5% -11%	14,116,189 55% 6% 37% 0% 1% 1648,574 -117% 20% 10% 0% -16% 59% 39% 0% 1%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127% 23% 11% 0% 4% -11% 58% 40% 0% 2%	12,963,905 57% 3% 37% 0% 1% 1% -525,278 -123% 21% 3% 0% -6% 59% 39% 0% 2%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 0% 44% -11%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% -9% 56% 38% 4% 1%	17,974,314 59% 1% 33% 5% 1% 1-294,946 -189% 78% 11% 4% 3% -7% 59% 34% 5% 1%	16,090,437 57% 0% 36% 5% 1% 1% -915,232 -113% 9% 3% 0% 1% 0% 54% 39% 55% 1%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 11% 6% 0% 2% 1% 41% 44% 2%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122% 13% 5% 0% 3% 0% 49% 43% 6% 2%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 1% 41% 44% 24%	15,406,816 52% 6% 36% 4% 1% 1% -531,521 -130% 16% 13% 0% 5% -4% 56% 38% 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 - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through	15,140,096 56% 4% 38% 0% 1% 1% -471,167 -131% 33% 4% 0% 5% -11%	14,116,189 55% 6% 37% 0% 1% 1648,574 -117% 20% 10% 0% 3% -16%	14,250,091 56% 3% 38% 0% 1% 150,253 -127% 23% 11% 0% 4% -11% 58% 40% 0%	12,963,905 57% 3% 37% 0% 1% 1-525,278 -123% 21% 0% 5% -6%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 0% 4% -11%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% -9% 56% 38% 4%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4% 3% -7% 59% 34% 5%	16,090,437 57% 0% 36% 5% 1% 195,232 -113% 9% 3% 0% 1% 0% 54% 39% 55%	14,021,472 55% 0% 38% 4% 1% 1% -759,051 -120% 11% 6% 0% 2% 1% 41% 44%	13,411,499 51% 0% 41% 5% 1% 1% -694,291 -122% 13% 5% 0% 3% 0%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 1% 41% 44%	15,406,816 52% 6% 36% 4% 1% 1% -531,521 -130% 16% 13% 0% 5% -4% 56% 38% 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 - Wheel Through Bilaterals  BAIAncing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0% 5% -11% 59% 39% 0% 1% 1%	14,116,189 55% 6% 37% 0% 1% -648,574 -117% 20% 10% 0% -16% 59% 39% 0% 1% 0%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127% 23% 11% 0% 4% -11% 58% 40% 0% 2% 1%	12,963,905 57% 3% 37% 0% 1% -525,278 -123% 21% 3% 0% -6% 59% 39% 0% 24 1%	13,451,310 56% 1% 37% 3% 1% -501,948 -133% 35% 5% 0% 4% -11% 55% 39% 4% 2% 0%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 2% -9% 56% 38% 4% 1%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4% 3% -7% 59% 34% 5% 1%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 9% 3% 0% 1% 0% 54% 39% 54% 1% 1%	14,021,472 55% 0% 38% 4% 1% -759,051 -120% 11% 6% 0% 2% 11% 53% 41% 44% 2% 11%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 5% 0% 3% 0% 49% 43% 6% 2% 1%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 11%	15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 13% 0% 5% -4% 56% 38% 4% 2% 1%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  BAIANCING Energy Market MWh  Balancing Energy Market MWh  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0% 5% -11% 59% 39% 0% 1% 103.2%	14,116,189 55% 6% 37% 0% 1% -648,574 -117% 20% 10% 0% -16% 59% 39% 0% 1% 0%	14,250,091 56% 3% 38% 0% 1% -501,253 -127% 23% 11% 0% 4% -11% 58% 40% 0% 2% 1%	12,963,905 57% 3% 37% 0% 1% -525,278 -123% 21% 3% 0% 5% -6% 59% 39% 0% 21% 104.2%	13,451,310 56% 1% 37% 3% 1% -501,948 -133% 35% 5% 0% 4% -11% 55% 39% 4% 2% 0%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 1% 2% -9% 56% 38% 4% 1% 104.7%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 11% 4% 3% -7% 59% 34% 5% 1% 1%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 0% 1% 0% 54% 39% 54% 1% 106.0%	14,021,472 55% 0% 38% 4% 1% -759,051 -120% 11% 6% 0% 2% 1% 41% 4% 2% 1% 105.7%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 5% 0% 3% 0% 49% 43% 6% 2% 1%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 11% 52% 41% 4% 2% 1%	15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 13% 0% 5% -4% 56% 38% 4% 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  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +	15,140,096 56% 4% 38% 0% 1% -471,167 -131% 33% 4% 0% 5% -11% 59% 39% 0% 1% 103.2% -3.2%	14,116,189 55% 6% 37% 0% 1% -648,574 -117% 20% 10% 0% 3% -16% 59% 39% 0% 1% 0% 10% 4.8%	14,250,091 56% 3% 38% 0% 1% 1% -501,253 -127% 23% 11% 0% 4% -11% 58% 40% 0% 2% 1% 103.6% -3.6%	12,963,905 57% 3% 37% 0% 1% -525,278 -123% 21% 3% 0% 5% -6% 59% 39% 0% 2% 104.2% -4.2%	13,451,310 56% 1% 37% 3% 1% -501,948 -133% 35% 5% 0% 4% -11% 55% 39% 4% 0% 103.9% -3.9%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 2% -9% 56% 38% 4% 1% 104.7% -4.7%	17,974,314 59% 1% 33% 5% 1% -294,946 -189% 78% 31% 47% 59% 34% 5% 1% 101.7% -1.7%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 0% 1% 0% 54% 39% 5% 1% 1% 106.0% -6.0%	14,021,472 55% 0% 38% 4% 1% -759,051 -120% 11% 6% 0% 2% 1% 41% 4% 2% 11% 105.7% -5.7%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 0% 3% 0% 49% 43% 6% 2% 1% 105.5% -5.5%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 11% 52% 41% 44% 2% 1%	15,406,816 52% 6% 36% 4% 1% -531,521 -130% 16% 13% 0% 5% -4% 56% 38% 4% 2% 1% 103.6% -3.6%
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<sup>+</sup> Balancing Energy: Load(MW) purchased at Real Time LBMP.

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

Virtual Transactions are not reflected in this chart.

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

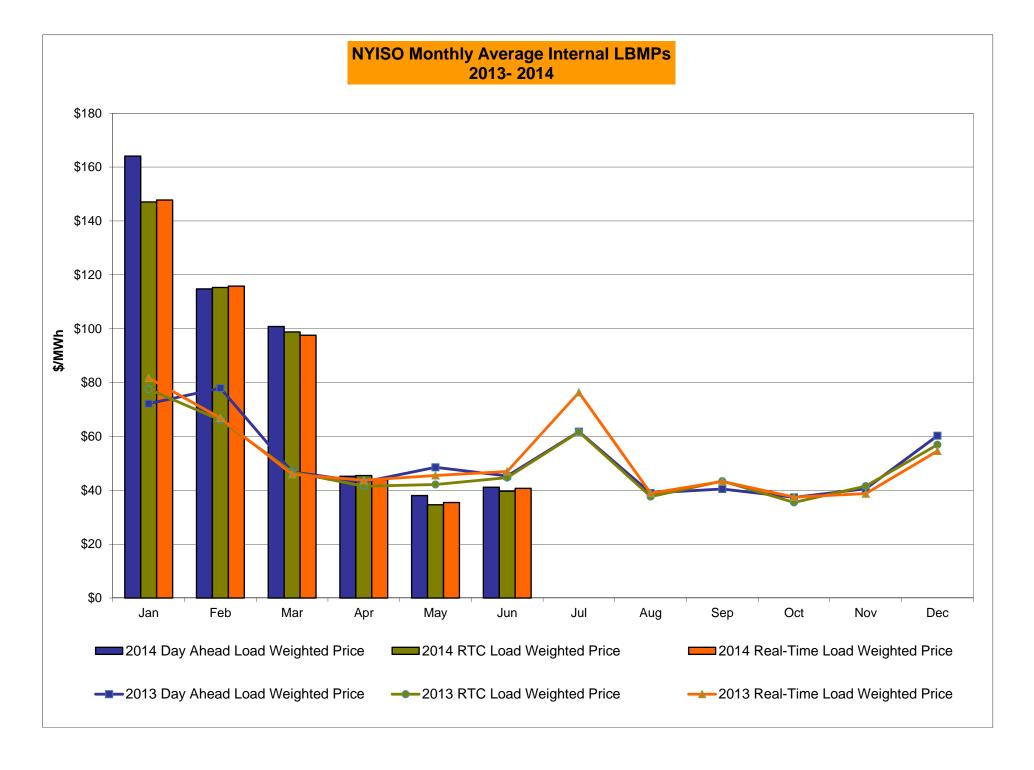
#### NYISO Markets 2014 Energy Statistics

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

#### NYISO Markets 2013 Energy Statistics

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

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

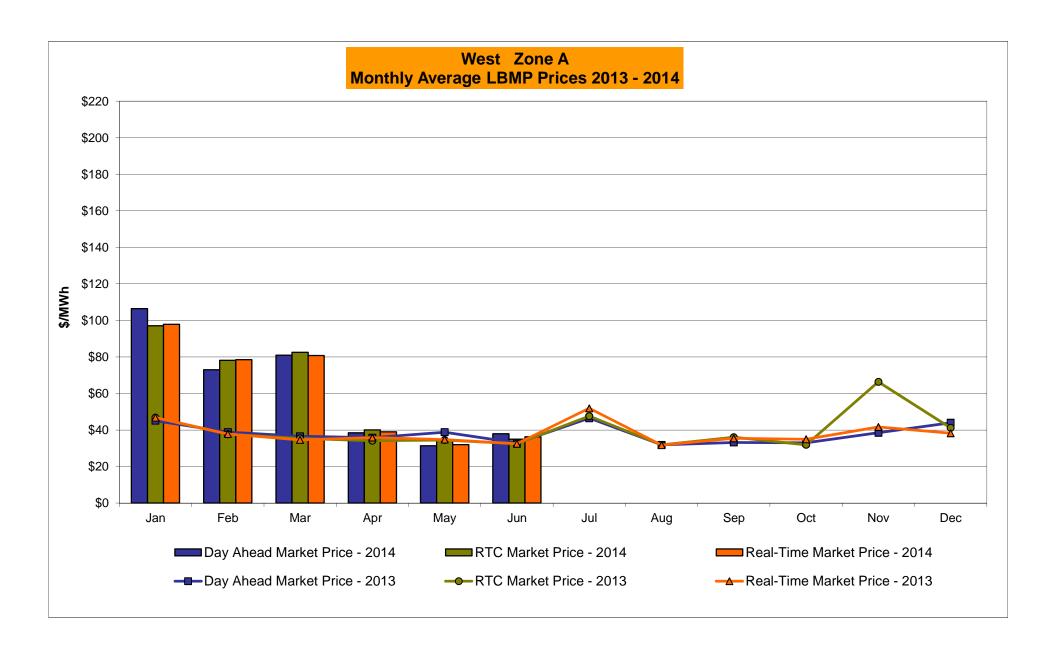


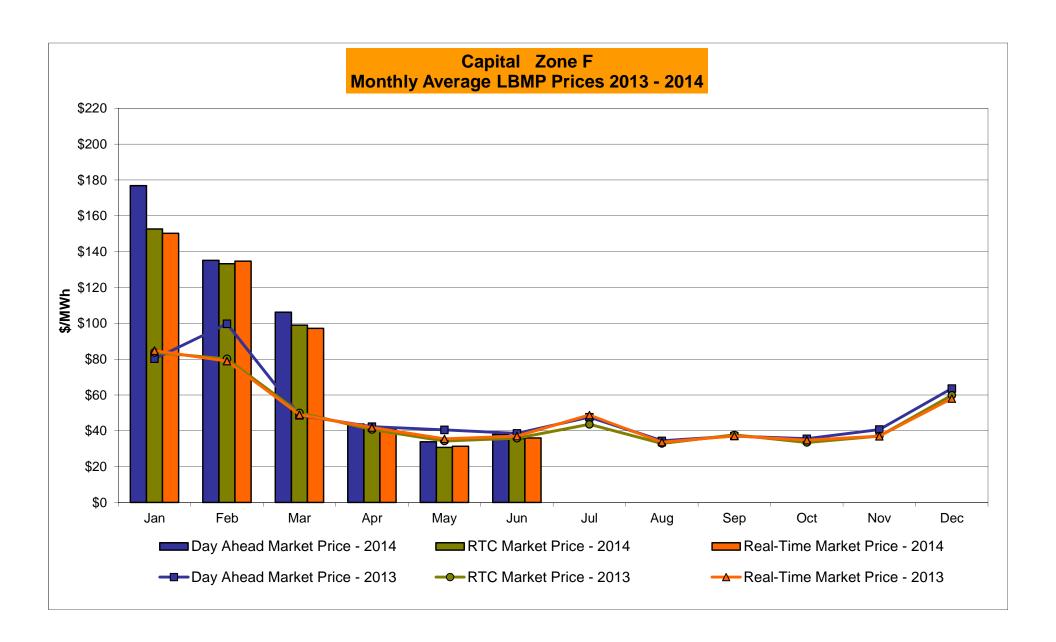
#### June 2014 Zonal LBMP Statistics for NYISO (\$/MWh)

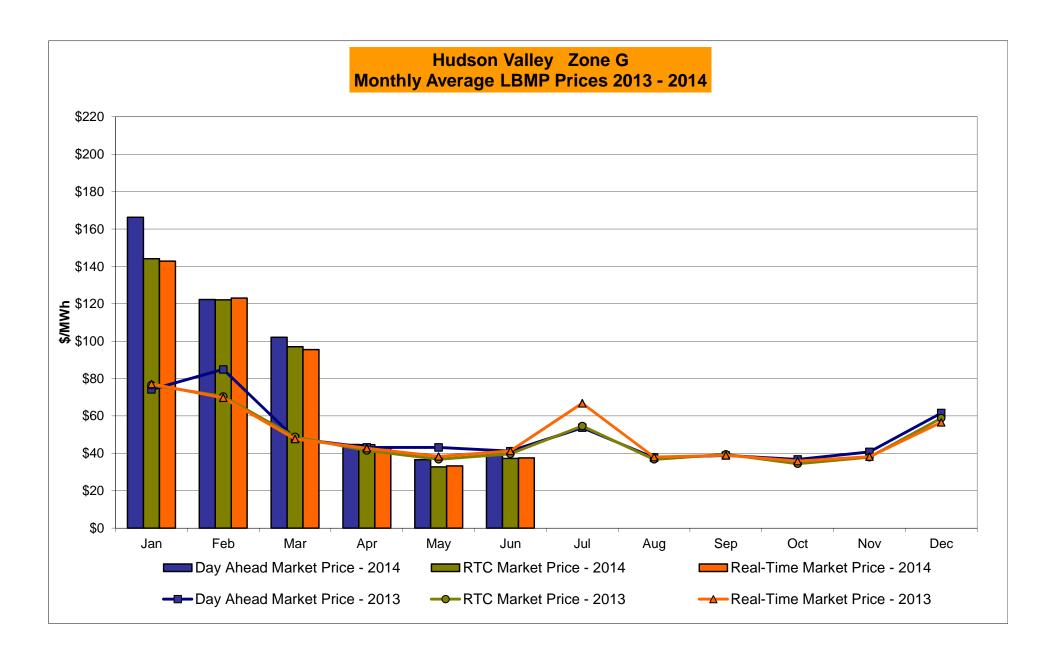
<u>DAY AHEAD LBMP</u> Unweighted Price * 37.92 34.14 33.00 35.71 35.89 38.03 39.66 39.74 39.68 39.95	44.75 14.82
Unweighted Price * 37.92 34.14 33.00 35.71 35.89 38.03 39.66 39.74 39.68 39.95	_
	14.82
Standard Deviation         18.39         10.21         9.67         11.15         10.74         10.54         11.90         12.10         12.05         12.06	
RTC LBMP	
Unweighted Price * 35.00 33.56 31.62 34.61 34.72 35.68 37.33 37.41 37.31 37.63	44.02
Standard Deviation         40.43         22.30         21.81         23.83         22.63         23.12         24.35         24.42         24.30         23.52	34.09
REAL TIME LBMP	
Unweighted Price * 36.25 33.88 32.23 34.96 35.03 35.97 37.56 37.64 37.54 38.09	46.96
Standard Deviation 43.47 18.86 18.51 20.48 19.17 19.59 20.64 20.71 20.61 20.73	43.52
HYDRO HYDRO CROSS ONTARIO QUEBEC QUEBEC NEW SOUND NORTHPORT- IESO (Wheel) (Import/Export) PJM ENGLAND CABLE NORWALK NEPTUNE LINDEN VFT HUDSON D	Dennison
<u>Controllable</u> <u>Controllable</u> <u>Controllable</u> <u>Controllable</u> <u>Controllable</u>	ntrollable
Zone O Zone M Zone M Zone P Zone N Line Line Line Line Line	<u>Line</u>
DAY AHEAD LBMP	
Unweighted Price * 31.92 33.05 33.05 37.95 38.73 43.47 41.76 42.43 39.53 39.85	32.60
Standard Deviation 8.59 9.34 9.34 12.34 11.04 14.12 12.52 13.54 11.28 12.09	9.36
RTC LBMP	
Unweighted Price * 31.16 30.06 30.06 34.70 35.20 40.38 39.78 39.13 35.94 36.42	29.08
Standard Deviation 13.75 37.60 37.60 15.55 15.42 27.68 27.17 26.75 15.54 15.90	29.44
REAL TIME LBMP           Unweighted Price *         32.51         33.04         32.89         37.07         36.92         42.41         37.51         41.29         37.54         37.91	31.73
Standard Deviation 15.38 19.47 19.49 26.39 19.91 34.12 33.41 33.82 21.66 22.07	18.12

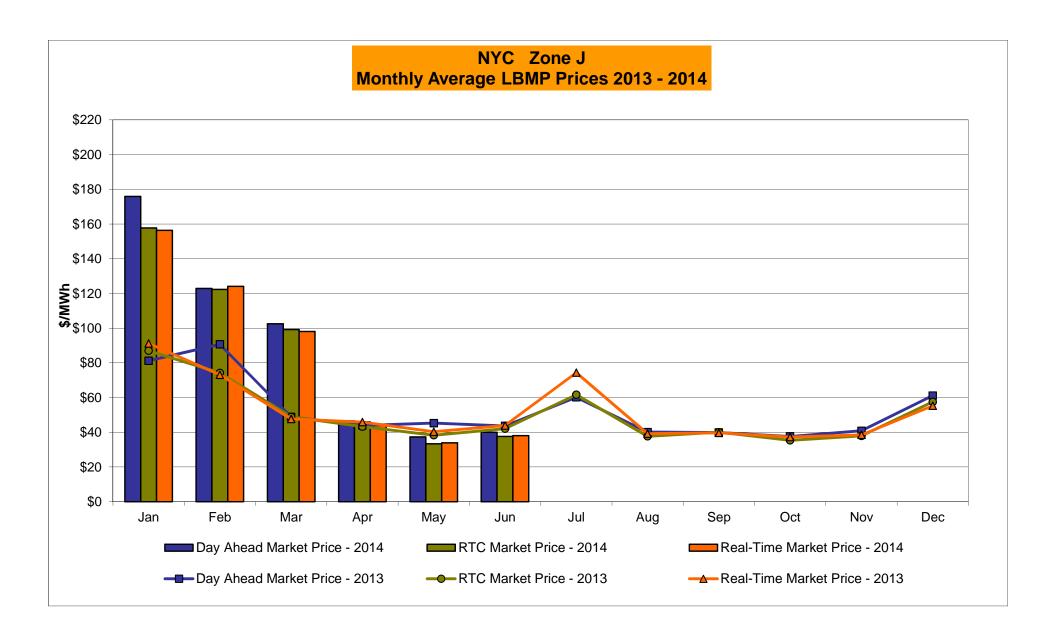
Market Mitigation and Analysis Prepared: 7/2/2014 2:27 PM

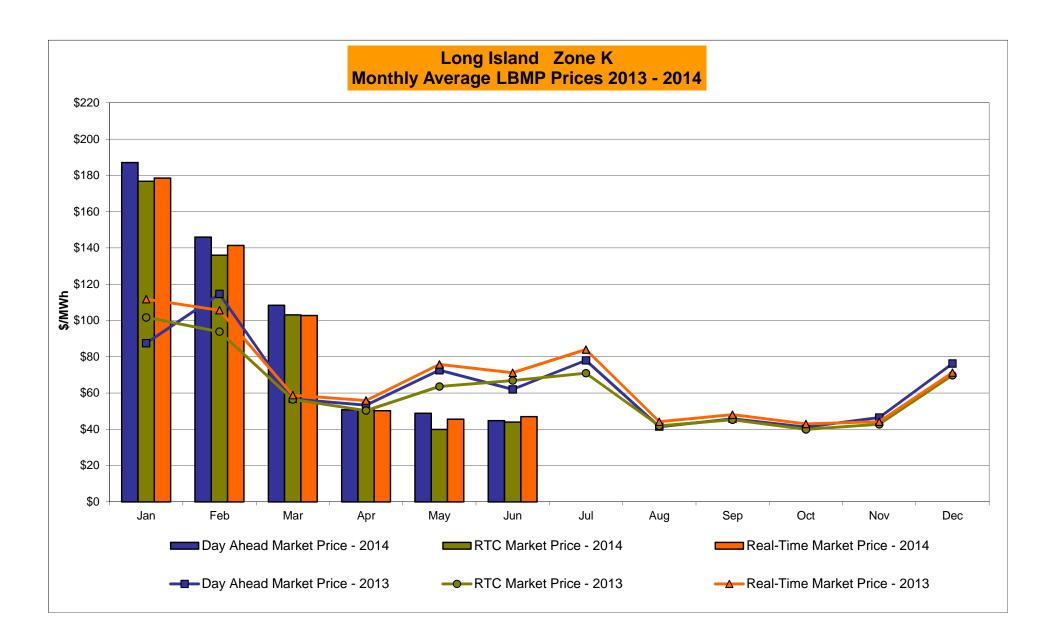
<sup>\*</sup> Straight LBMP averages

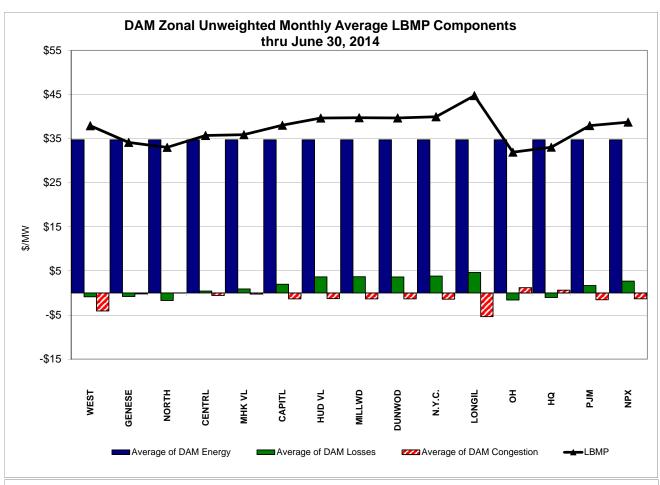


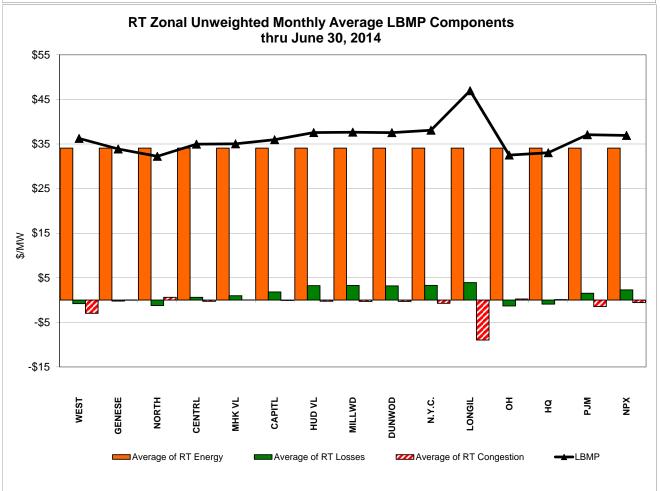




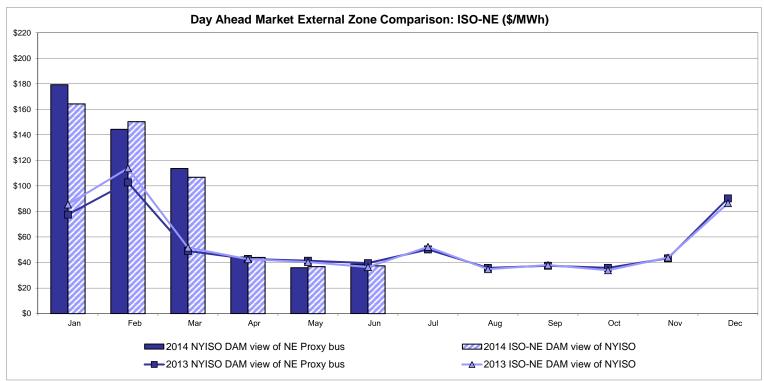


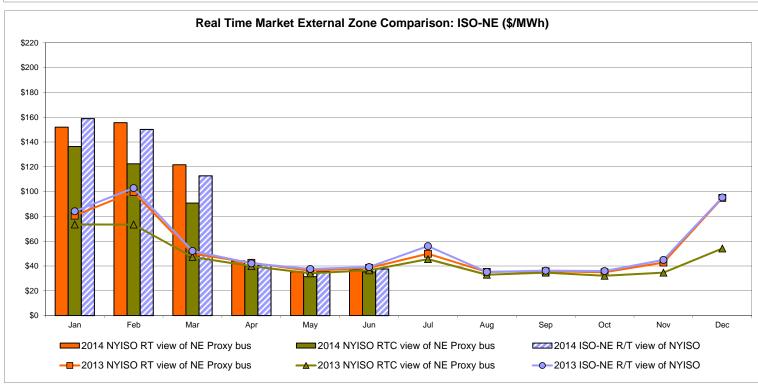




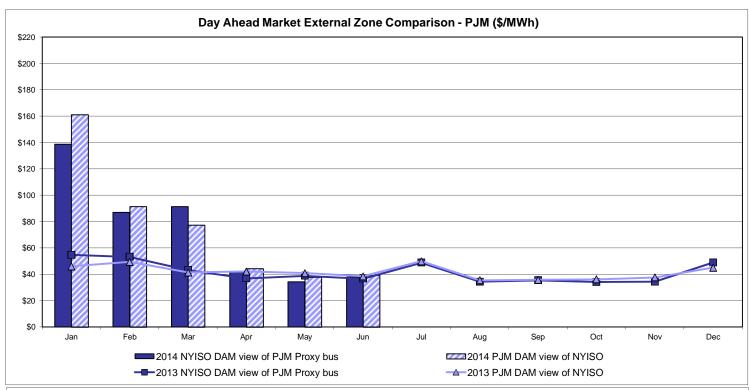


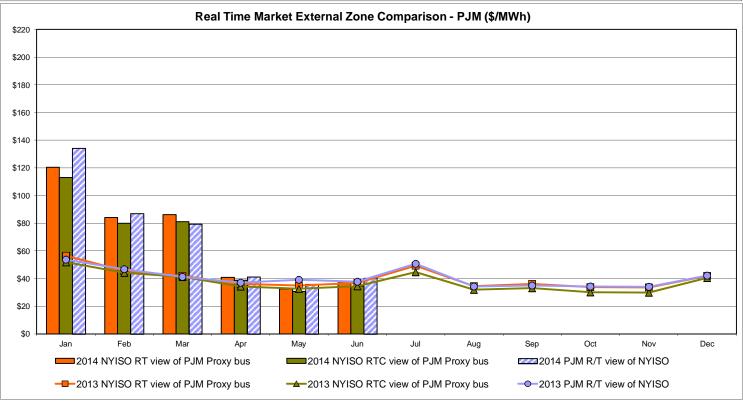
### **External Comparison ISO-New England**



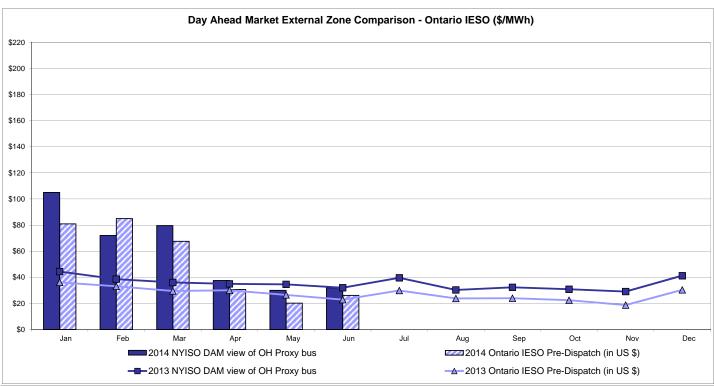


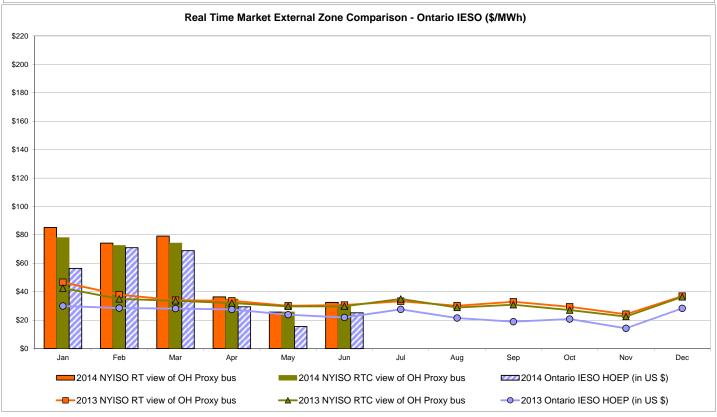
# **External Comparison PJM**





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

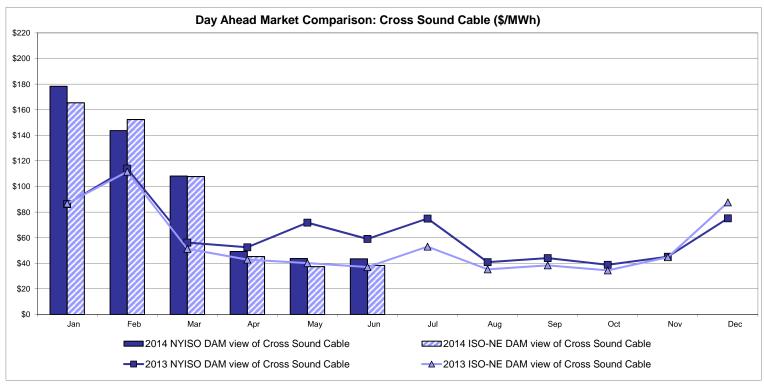


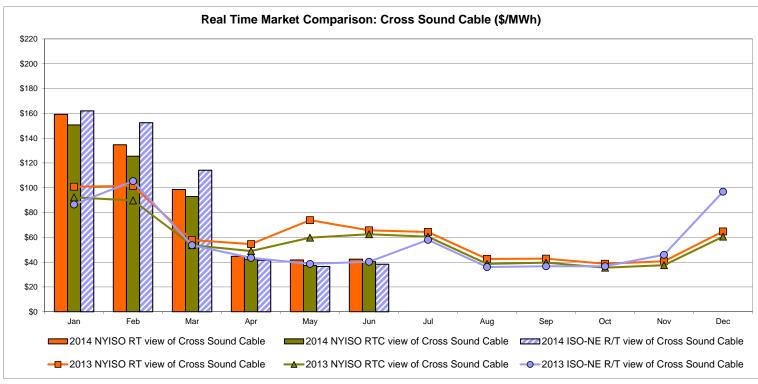


Notes: Exchange factor used for June 2014 was 0.9227 to US \$

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

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





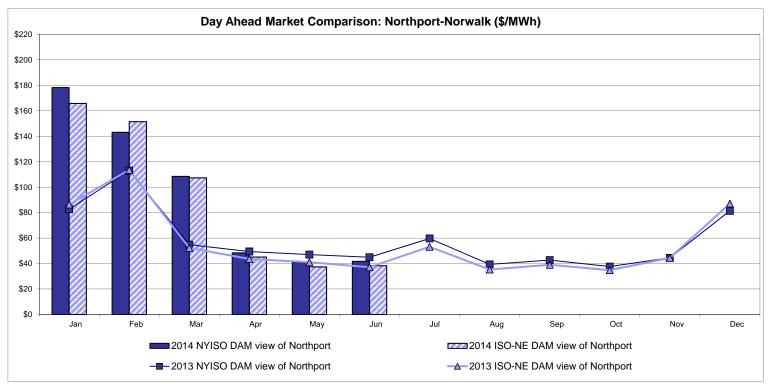
#### Note:

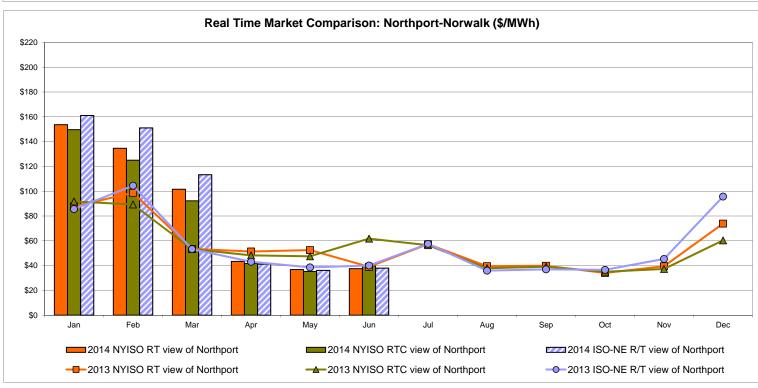
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

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





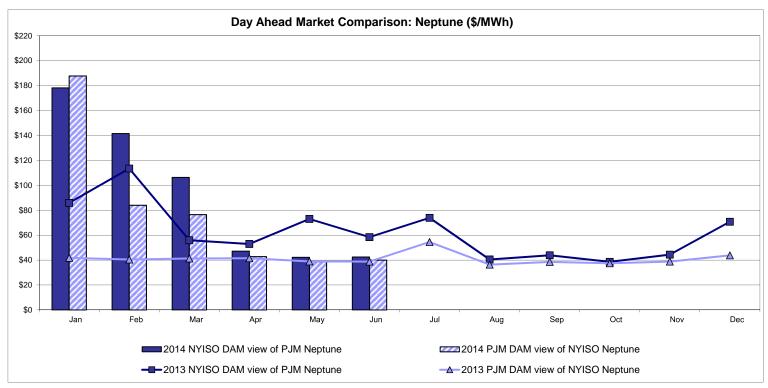
#### Note:

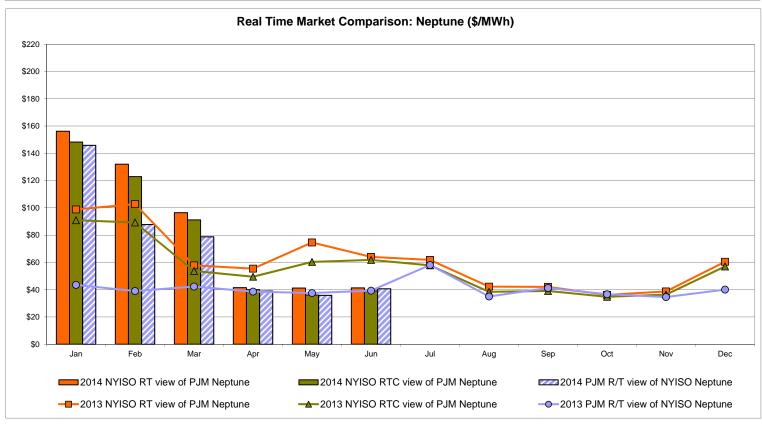
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

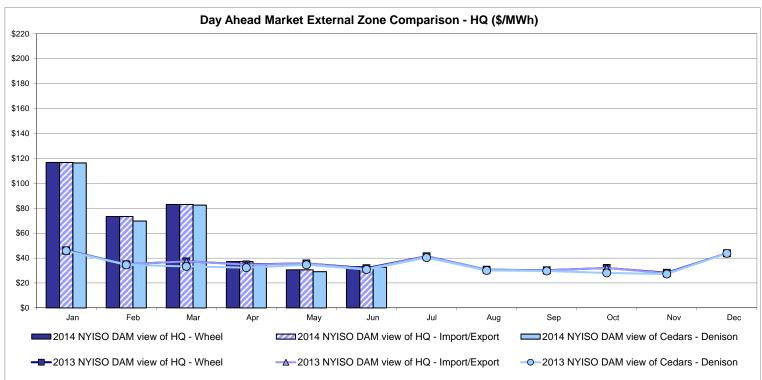
The DAM and R/T prices at the 1385 interface are used for NYISO.

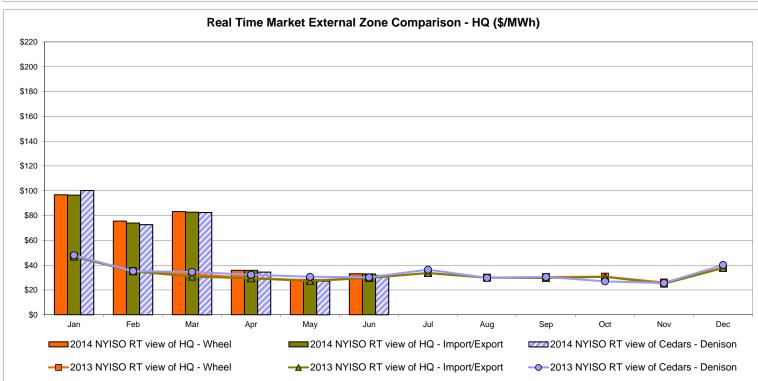
# **External Controllable Line: Neptune (PJM)**





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

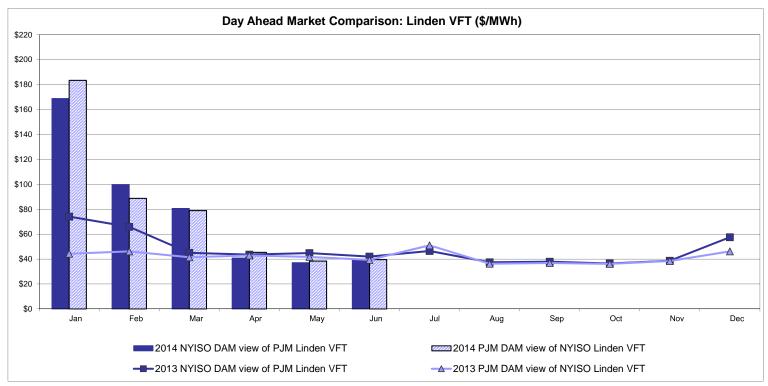


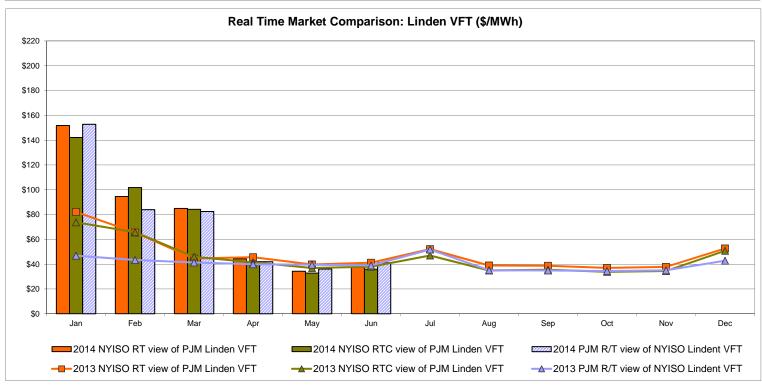


Note:

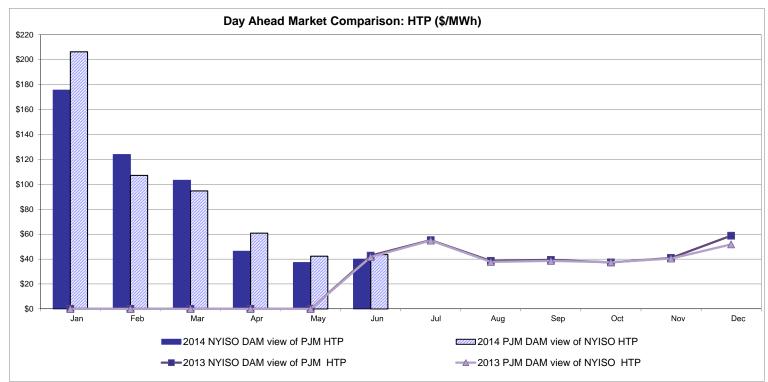
Hydro-Quebec Prices are unavailable.

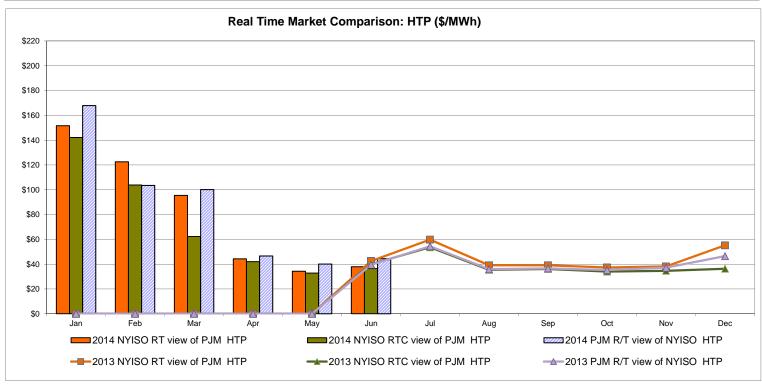
# **External Controllable Line: Linden VFT (PJM)**





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



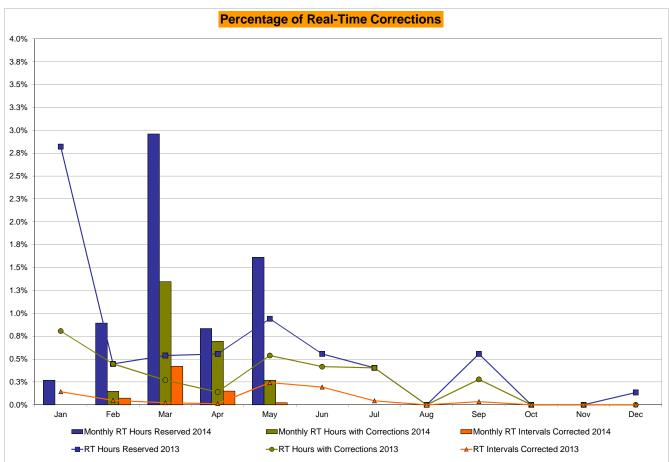


#### **NYISO Real Time Price Correction Statistics**

2014		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	<u>October</u>	November	December
Hour Corrections	in the menth	0	1	10	5	2	0						
Number of hours with corrections  Number of hours	in the month in the month	744	672	743	720	744	720						
% of hours with corrections	in the month	0.00%	0.15%	1.35%	0.69%	0.27%	0.00%						
76 OF FIGURE WITH COFFECTIONS	in the month	0.0078	0.1376	1.55 /6	0.0976	0.27 /6	0.0078						
% of hours with corrections	year-to-date	0.00%	0.07%	0.51%	0.56%	0.50%	0.41%						
Interval Corrections			_			_	_						
Number of intervals corrected	in the month	0	6	38	13	2	0						
Number of intervals	in the month	9,232	8,205	9,023	8,720	9,030	8,729						
% of intervals corrected	in the month	0.00%	0.07%	0.42%	0.15%	0.02%	0.00%						
% of intervals corrected	year-to-date	0.00%	0.03%	0.17%	0.16%	0.13%	0.11%						
Hours Reserved													
Number of hours reserved	in the month	2	6	22	6	12	0						
Number of hours	in the month	744	672	743	720	744	720						
% of hours reserved	in the month	0.27%	0.89%	2.96%	0.83%	1.61%	0.00%						
% of hours reserved	year-to-date	0.27%	0.56%	1.39%	1.25%	1.32%	1.11%						
Days to Correction *	•												
Avg. number of days to correction	in the month	0.00	3.00	1.00	1.00	0.00	0.00						
Avg. number of days to correction	year-to-date	0.00	3.00	1.50	1.33	1.00	1.00						
Days Without Corrections													
Days without corrections	in the month	31	27	28	28	29	30						
Days without corrections	year-to-date	31	58	86	114	143	173						
2013		January	February	March	April	Mav	June	July	August	September	October	November	December
2013 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
2013  Hour Corrections  Number of hours with corrections	in the month		February 3		<u>April</u> 1	<u>May</u> 4	<u>June</u> 3	<u>July</u> 3	August 0	-	October 0	November 0	<u>December</u> 0
Hour Corrections		<u>January</u> 6 744	3	2	1	<u></u>	3	3	0	2	0	0	
Hour Corrections  Number of hours with corrections	in the month in the month in the month	6	<del></del>		<u></u> _	4				-			0
Hour Corrections  Number of hours with corrections  Number of hours  % of hours with corrections	in the month in the month	6 744 0.81%	3 672 0.45%	2 743 0.27%	1 720 0.14%	4 744 0.54%	3 720 0.42%	3 744 0.40%	0 744 0.00%	2 720 0.28%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month	6 744	3 672	 2 743	1 720	4 744	3 720	3 744	0 744	2 720	0 744	0 721	0 744
Hour Corrections  Number of hours with corrections  Number of hours  % of hours with corrections	in the month in the month year-to-date	6 744 0.81%	3 672 0.45%	2 743 0.27% 0.51%	1 720 0.14%	4 744 0.54% 0.44%	3 720 0.42%	3 744 0.40%	0 744 0.00%	2 720 0.28%	0 744 0.00%	0 721 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	6 744 0.81% 0.81%	3 672 0.45% 0.64%	2 743 0.27%	1 720 0.14% 0.42%	4 744 0.54%	3 720 0.42% 0.44%	3 744 0.40% 0.43%	0 744 0.00% 0.38%	2 720 0.28% 0.37%	0 744 0.00% 0.33%	0 721 0.00% 0.30%	0 744 0.00% 0.27%
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	6 744 0.81% 0.81%	3 672 0.45% 0.64%	2 743 0.27% 0.51%	1 720 0.14% 0.42%	4 744 0.54% 0.44%	3 720 0.42% 0.44%	3 744 0.40% 0.43%	0 744 0.00% 0.38%	2 720 0.28% 0.37%	0 744 0.00% 0.33%	0 721 0.00% 0.30%	0 744 0.00% 0.27%
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	6 744 0.81% 0.81% 13 9,104 0.14%	3 672 0.45% 0.64% 4 8,230 0.05%	2 743 0.27% 0.51% 2 9,026 0.02%	1 720 0.14% 0.42% 1 8,727 0.01%	4 744 0.54% 0.44% 22 9,083 0.24%	3 720 0.42% 0.44% 17 8,740 0.19%	3 744 0.40% 0.43% 4 9,079 0.04%	0 744 0.00% 0.38% 0 9,002 0.00%	2 720 0.28% 0.37% 3 8,760 0.03%	0 744 0.00% 0.33% 0 9,041 0.00%	0 721 0.00% 0.30% 0 8,854 0.00%	0 744 0.00% 0.27% 0 9,073 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month	6 744 0.81% 0.81% 13 9,104	3 672 0.45% 0.64% 4 8,230	2 743 0.27% 0.51% 2 9,026	1 720 0.14% 0.42% 1 8,727	4 744 0.54% 0.44% 22 9,083	3 720 0.42% 0.44% 17 8,740	3 744 0.40% 0.43% 4 9,079	0 744 0.00% 0.38% 0 9,002	2 720 0.28% 0.37% 3 8,760	0 744 0.00% 0.33% 0 9,041	0 721 0.00% 0.30% 0 8,854	0 744 0.00% 0.27% 0 9,073
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date	6 744 0.81% 0.81% 13 9,104 0.14%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved  Number of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	6 744 0.81% 0.81% 13 9,104 0.14% 0.14%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	6 744 0.81% 0.81% 13 9,104 0.14% 0.14%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	6 744 0.81% 0.81% 13 9,104 0.14% 0.14% 21 744 2.82%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10% 3 672 0.45%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07% 4 743 0.54%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06% 4 720 0.56%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10% 7 744 0.94%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11% 4 720 0.56%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10% 3 744 0.40%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08% 4 720 0.56%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  More of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved  Number of hours reserved Number of hours % of hours reserved % of hours reserved	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	6 744 0.81% 0.81% 13 9,104 0.14% 0.14%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Mumber of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month year-to-date	6 744 0.81% 0.81% 13 9,104 0.14% 0.14% 21 744 2.82% 2.82%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10% 3 672 0.45% 1.69%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07% 4 743 0.54% 1.30%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06% 4 720 0.56% 1.11%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10% 7 744 0.94% 1.08%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11% 4 720 0.56% 0.99%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10% 3 744 0.40% 0.90%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00% 0.79%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08% 4 720 0.56% 0.76%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00% 0.69%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00% 0.62%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13% 0.58%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Minterval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  Days to Correction  Avg. number of days to corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	6 744 0.81% 0.81% 13 9,104 0.14% 0.14% 21 744 2.82% 2.82%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10% 3 672 0.45% 1.69%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07% 4 743 0.54% 1.30%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06% 4 720 0.56% 1.11%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10% 7 744 0.94% 1.08%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11% 4 720 0.56% 0.99%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10% 3 744 0.40% 0.90%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00% 0.79%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08% 4 720 0.56% 0.76%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00% 0.69%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00% 0.62%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13% 0.58%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  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 in the month year-to-date in the month in the month in the month in the month year-to-date	6 744 0.81% 0.81% 13 9,104 0.14% 0.14% 21 744 2.82% 2.82%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10% 3 672 0.45% 1.69%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07% 4 743 0.54% 1.30%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06% 4 720 0.56% 1.11%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10% 7 744 0.94% 1.08%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11% 4 720 0.56% 0.99%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10% 3 744 0.40% 0.90%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00% 0.79%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08% 4 720 0.56% 0.76%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00% 0.69%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00% 0.62%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13% 0.58%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Minterval Corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  Days to Correction Avg. number of days to correction Days Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month year-to-date	6 744 0.81% 0.81% 13 9,104 0.14% 0.14% 21 744 2.82% 2.82% 0.80 0.80	3 672 0.45% 0.64% 4 8,230 0.05% 0.10% 3 672 0.45% 1.69%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07% 4 743 0.54% 1.30% 1.00 0.90	1 720 0.14% 0.42%  1 8,727 0.01% 0.06%  4 720 0.56% 1.11%  2.00 1.00	4 744 0.54% 0.44% 22 9,083 0.24% 0.10% 7 744 0.94% 1.08%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11% 4 720 0.56% 0.99% 2.00 1.07	3 744 0.40% 0.43% 4 9,079 0.04% 0.10% 3 744 0.40% 0.90%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00% 0.79% 0.00 0.94	2 720 0.28% 0.37% 3 8,760 0.03% 0.08% 4 720 0.56% 0.76%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00% 0.69% 0.00 0.89	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00% 0.62%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13% 0.58% 0.00 0.89
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  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 in the month year-to-date in the month year-to-date in the month	6 744 0.81% 0.81% 13 9,104 0.14% 0.14% 21 744 2.82% 2.82%	3 672 0.45% 0.64% 4 8,230 0.05% 0.10% 3 672 0.45% 1.69%	2 743 0.27% 0.51% 2 9,026 0.02% 0.07% 4 743 0.54% 1.30%	1 720 0.14% 0.42% 1 8,727 0.01% 0.06% 4 720 0.56% 1.11%	4 744 0.54% 0.44% 22 9,083 0.24% 0.10% 7 744 0.94% 1.08%	3 720 0.42% 0.44% 17 8,740 0.19% 0.11% 4 720 0.56% 0.99%	3 744 0.40% 0.43% 4 9,079 0.04% 0.10% 3 744 0.40% 0.90%	0 744 0.00% 0.38% 0 9,002 0.00% 0.09% 0 744 0.00% 0.79%	2 720 0.28% 0.37% 3 8,760 0.03% 0.08% 4 720 0.56% 0.76%	0 744 0.00% 0.33% 0 9,041 0.00% 0.07% 0 744 0.00% 0.69%	0 721 0.00% 0.30% 0 8,854 0.00% 0.07% 0 721 0.00% 0.62%	0 744 0.00% 0.27% 0 9,073 0.00% 0.06% 1 744 0.13% 0.58%

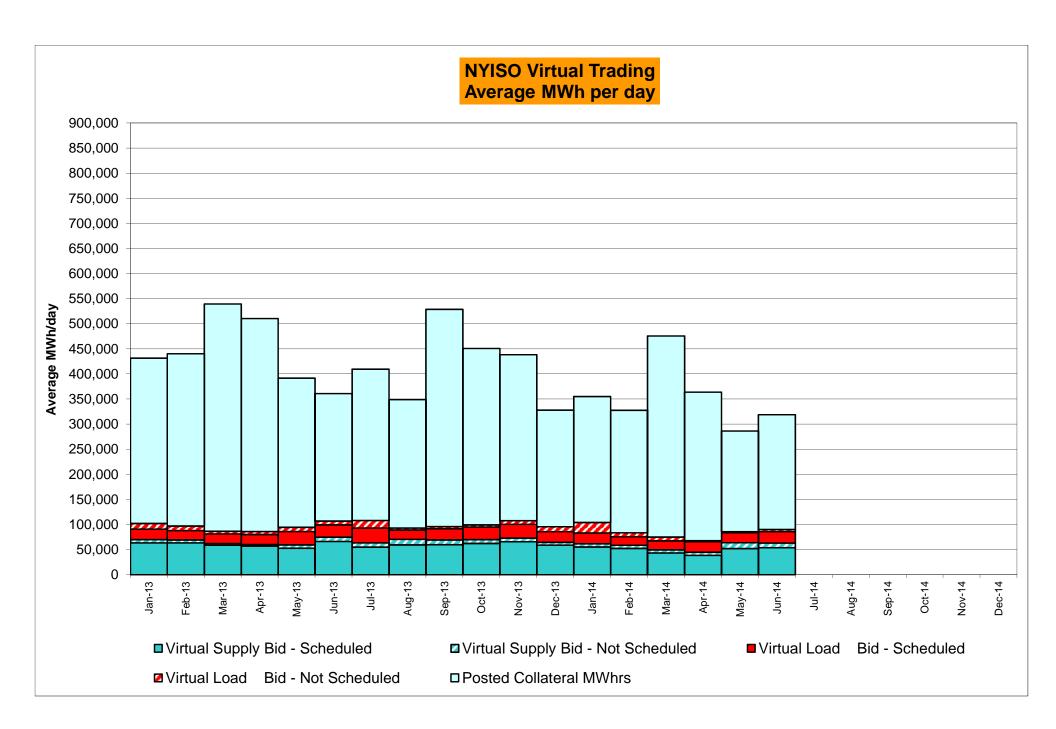
<sup>\*</sup> Calendar days from reservation date.

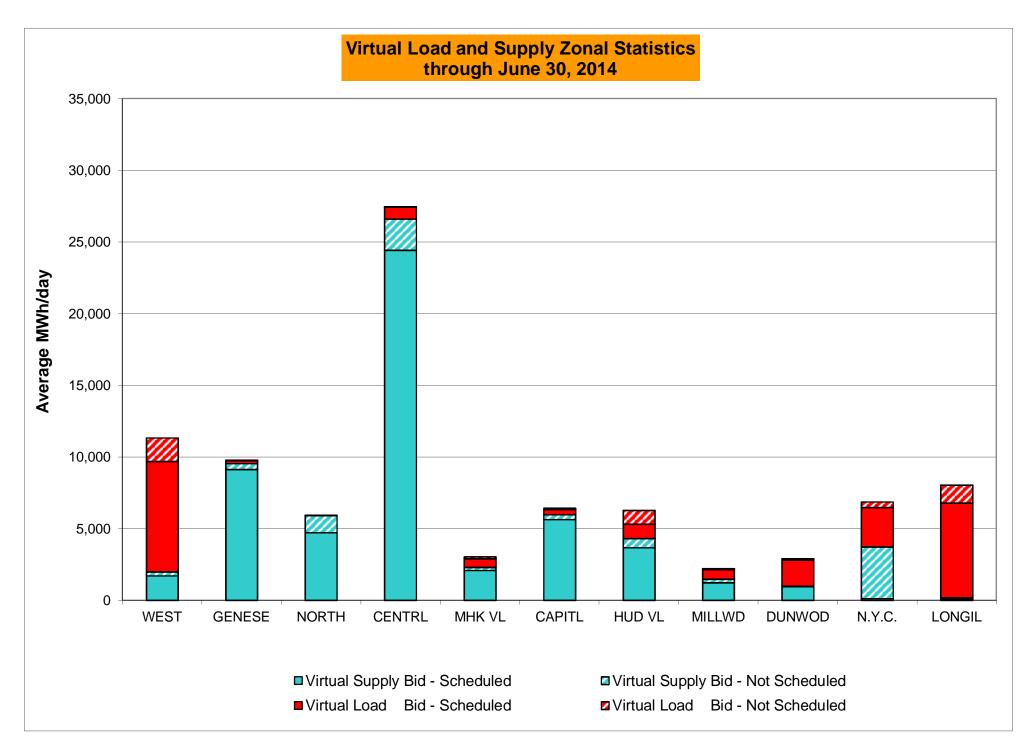
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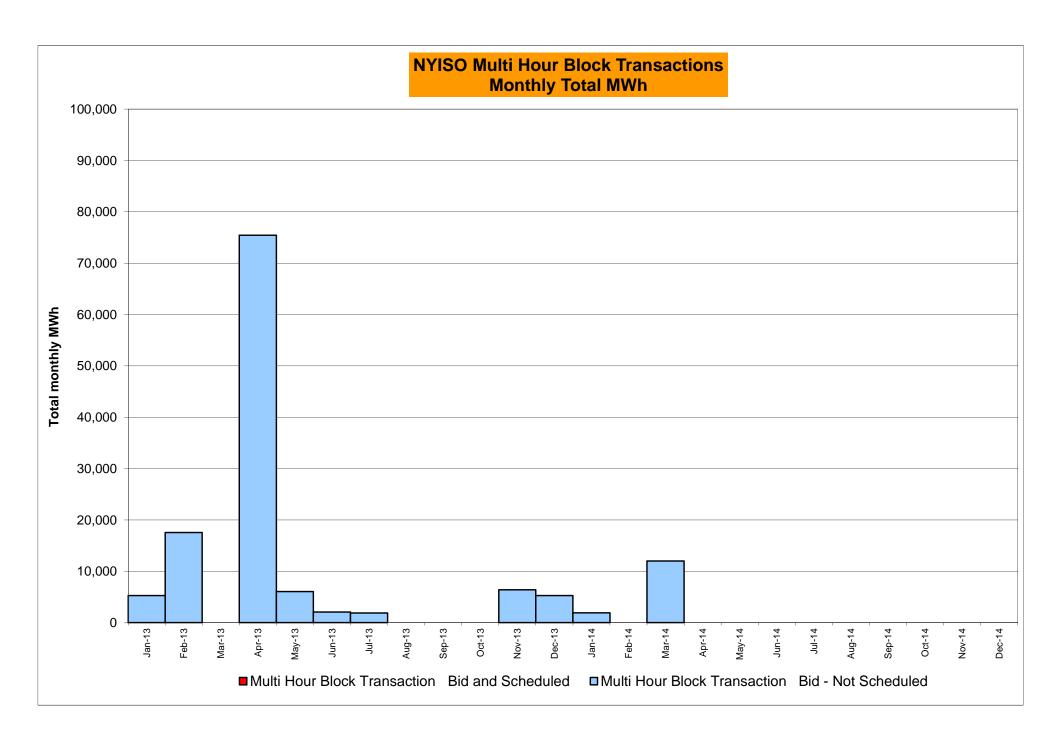


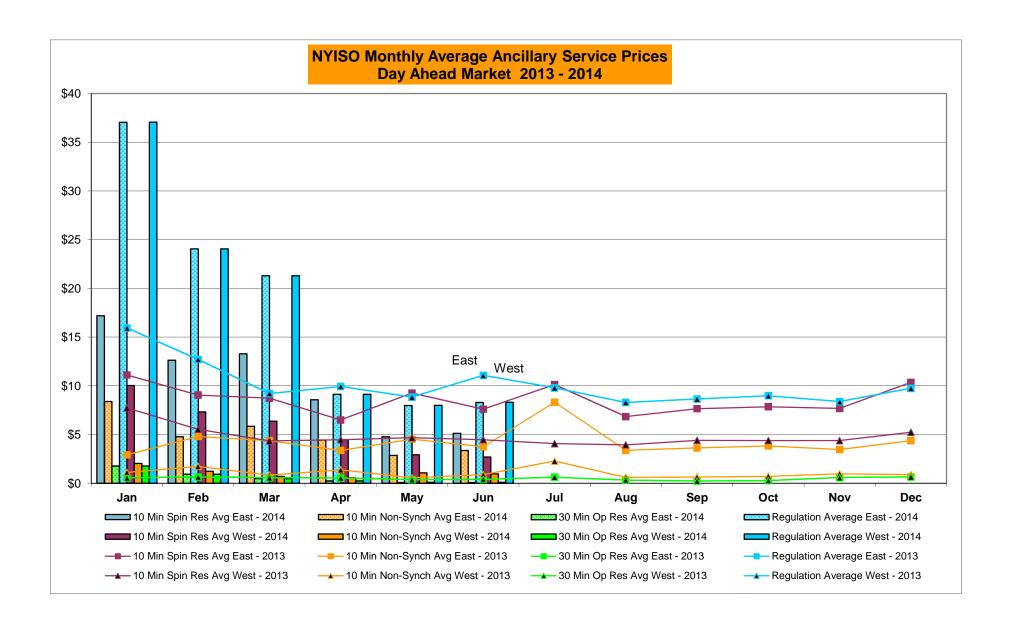
<sup>\*</sup> Calendar days from reservation date.

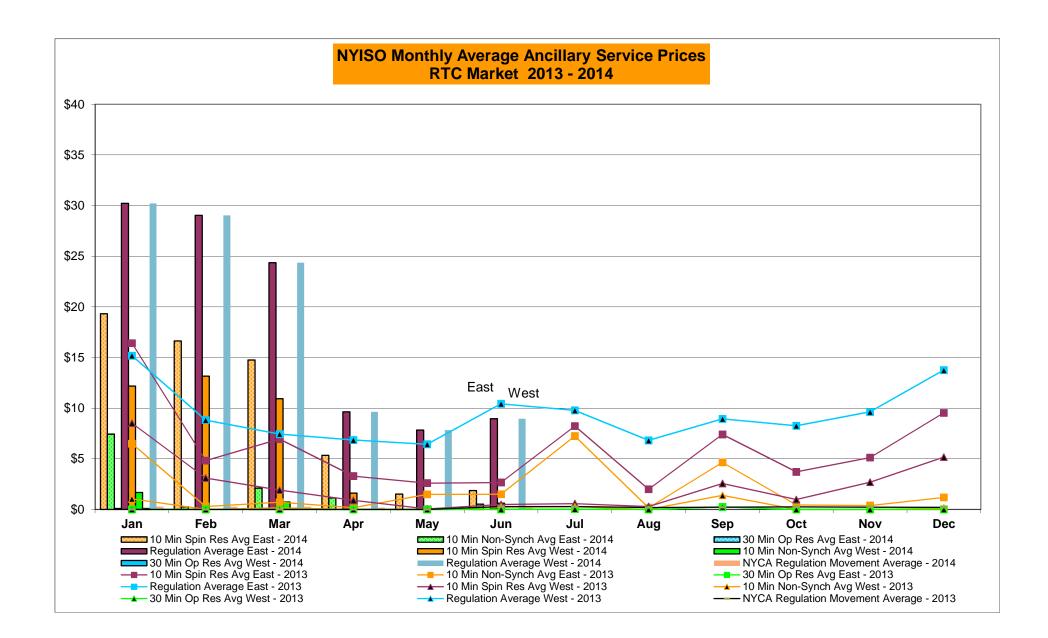


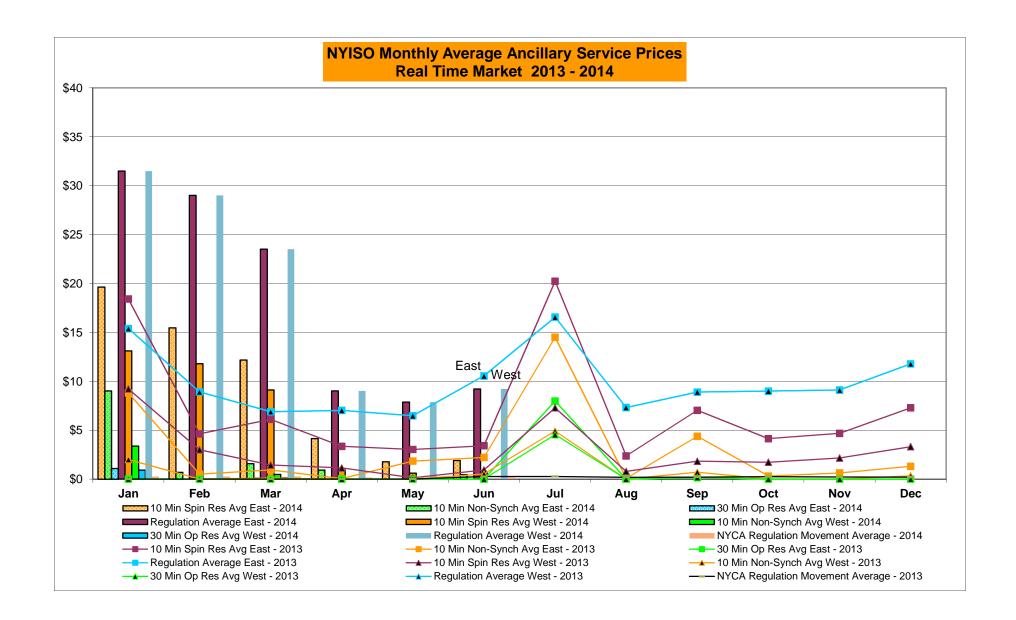


					Virtual L	oad and	Sup	oly Zonal	Statistic	s (Avera	ge MWh/c	lay) - 2014					
		Virtual L		Virtual S	upply Bid			Virtual L		Virtual Su				Virtual I	oad Bid	Virtual Su	
7000	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
Zone WEST		6,213	5,063	2,777	155	MHK VL	Jan-14		587	1,316	260	DUNWOD	Jan-14			2,182	
WEST	Jan-14 Feb-14	5,077	805	2,777	422	MULKAL	Feb-14		204		90	DUNWOD	Feb-14	354 577		2,182	268 176
	Mar-14	4,982	601	2,874	159		Mar-14				106		Mar-14	481		1,794	1/0
	Apr-14	7,473	451	1,880	130		Apr-14		44		136		Apr-14	211			146 87
	May-14	7,473	353	952	158		May-14		7	2,372	412		May-14	930		580	67
	Jun-14	7,711	1,645	1,701	277		Jun-14		115	,	195		Jun-14	1,814		966	25
	Jul-14	7,711	1,010	1,701	211		Jul-14		110	2,000	100		Jul-14	1,011		555	20
	Aug-14						Aug-14						Aug-14				
	Sep-14						Sep-14						Sep-14				
	Oct-14						Oct-14						Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				
	D00 11						D00 11						D00 11				
GENESE	Jan-14	434	279	5,230	425	CAPITL	Jan-14	1,439	1,278	3,985	379	N.Y.C.	Jan-14	2,627	3,843	666	1,083
	Feb-14	473	107	5,250	487		Feb-14		871	4,100	127		Feb-14	2,470		521	625
	Mar-14	1,164	176	6,014	88		Mar-14		939		129		Mar-14	3,075		152	1,172
	Apr-14	551	13	8,329	173		Apr-14	780	107	4,476	133		Apr-14	3,335	289	152	2,900
	May-14	134	18	5,223	798		May-14	479	17	5,367	337		May-14	2,276	165	205	4,679
	Jun-14	211	2	9,133	405		Jun-14	367	93		333		Jun-14	2,741	390	121	3,613
	Jul-14						Jul-14						Jul-14				
	Aug-14						Aug-14						Aug-14				
	Sep-14						Sep-14						Sep-14				
	Oct-14						Oct-14						Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				
NORTH	Jan-14	47	168	6,579	1,592	HUD VL	Jan-14		1,554		466	LONGIL	Jan-14	7,605		59	375
	Feb-14	110	4	5,732	1,308		Feb-14		1,325		792		Feb-14	5,365		145	230
	Mar-14	121	10	6,390	895		Mar-14		1,130		1,081		Mar-14	5,083		166	223 18
	Apr-14	67	4	8,216	1,007		Apr-14		725		918		Apr-14	7,434		102	151
	May-14	89 17	1 0	7,535	955		May-14		358 964		760 640		May-14	6,303		83 97	77
	Jun-14 Jul-14	17	U	4,710	1,222		Jun-14 Jul-14		964	3,669	640		Jun-14 Jul-14	6,607	1,264	97	11
	Aug-14 Sep-14						Aug-14 Sep-14						Aug-14 Sep-14				
	Oct-14						Oct-14						Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				
	Dec-14						Dec-14						Dec-14				
CENTRL	Jan-14	675	392	27,758	624	MILLWD	Jan-14	235	401	848	470	NYISO	Jan-14	21,670	20,900	55,491	6,098
	Feb-14	419	155	27,395	1,484		Feb-14		183		357		Feb-14	16,907		52,604	6,097
	Mar-14	466	359	16,130	1,822		Mar-14		293		262		Mar-14	17,855		43,485	6,082
	Apr-14	222	13	5,535	430		Apr-14		54		255		Apr-14	20,848		38,637	6,187
	May-14	743	0	24,434	3,035		May-14		32		392		May-14	19,467		52,261	11,742
	Jun-14		25	24,422	2,180		Jun-14		66		254		Jun-14	22,606	,	53,771	9,221
	Jul-14	320		, . <b></b>	_, . 50		Jul-14			.,200			Jul-14	,500	.,500	,	-,
	Aug-14						Aug-14						Aug-14				
	Sep-14						Sep-14						Sep-14				
	Oct-14						Oct-14						Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				





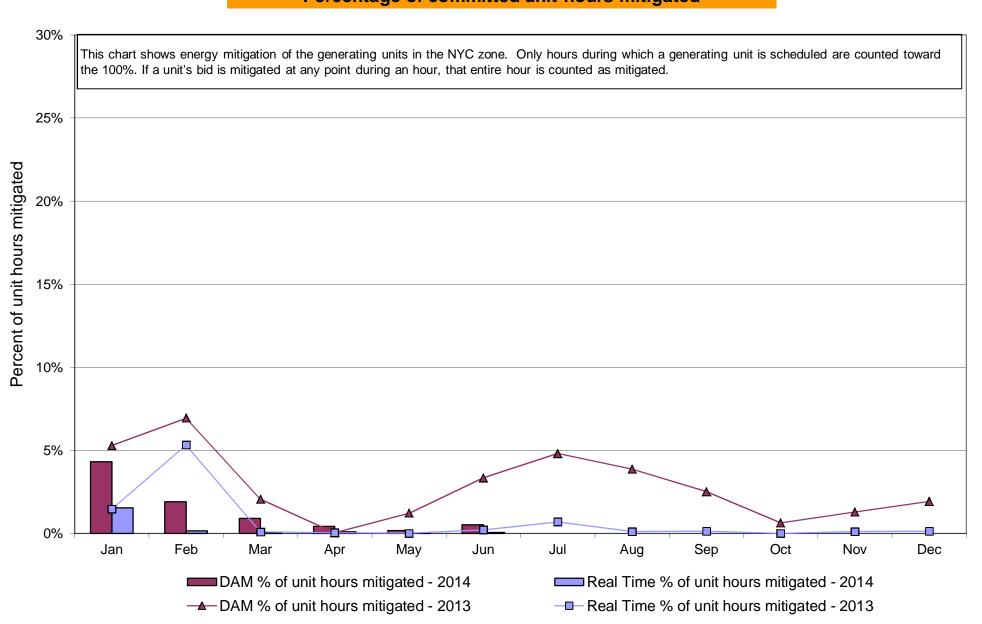


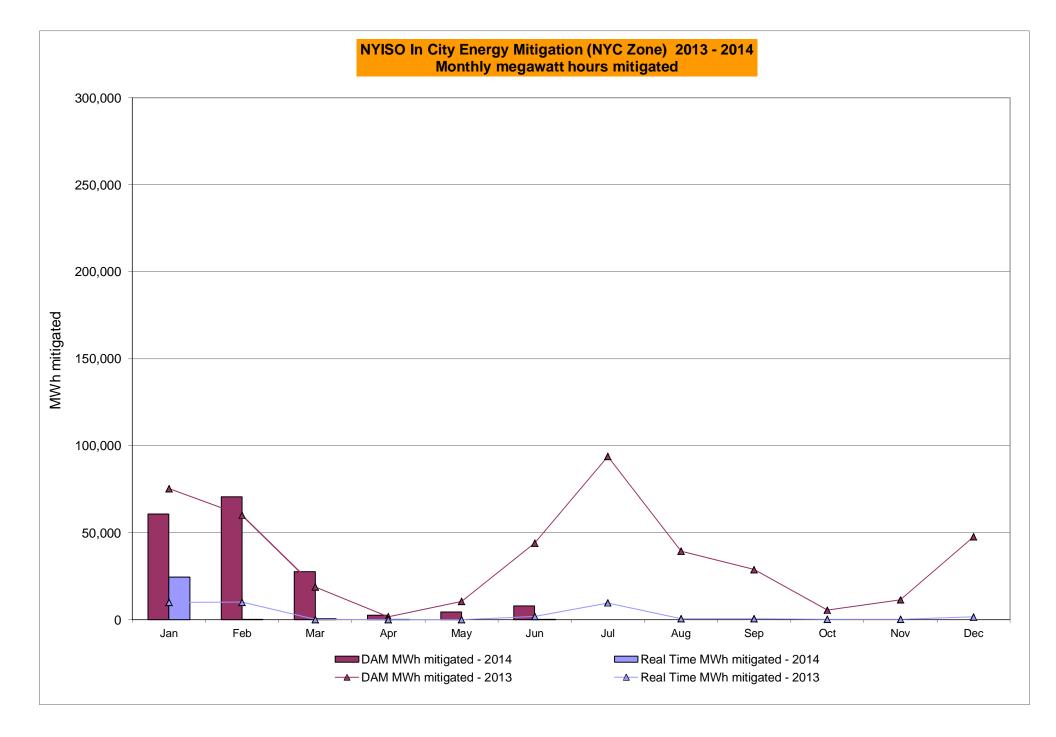


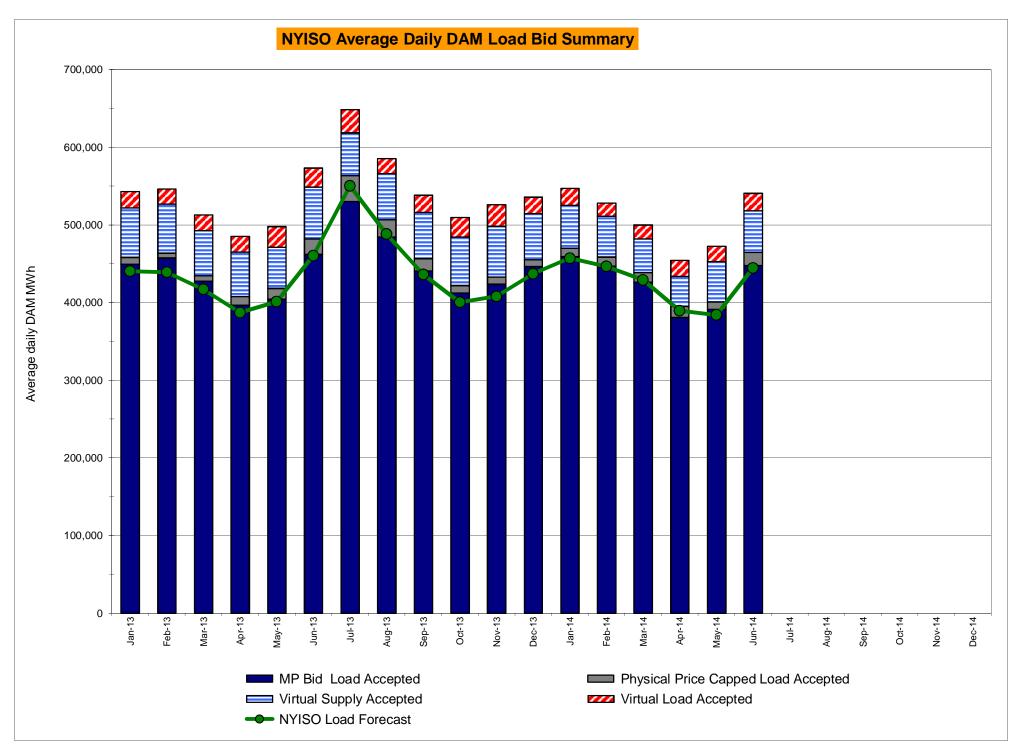
#### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

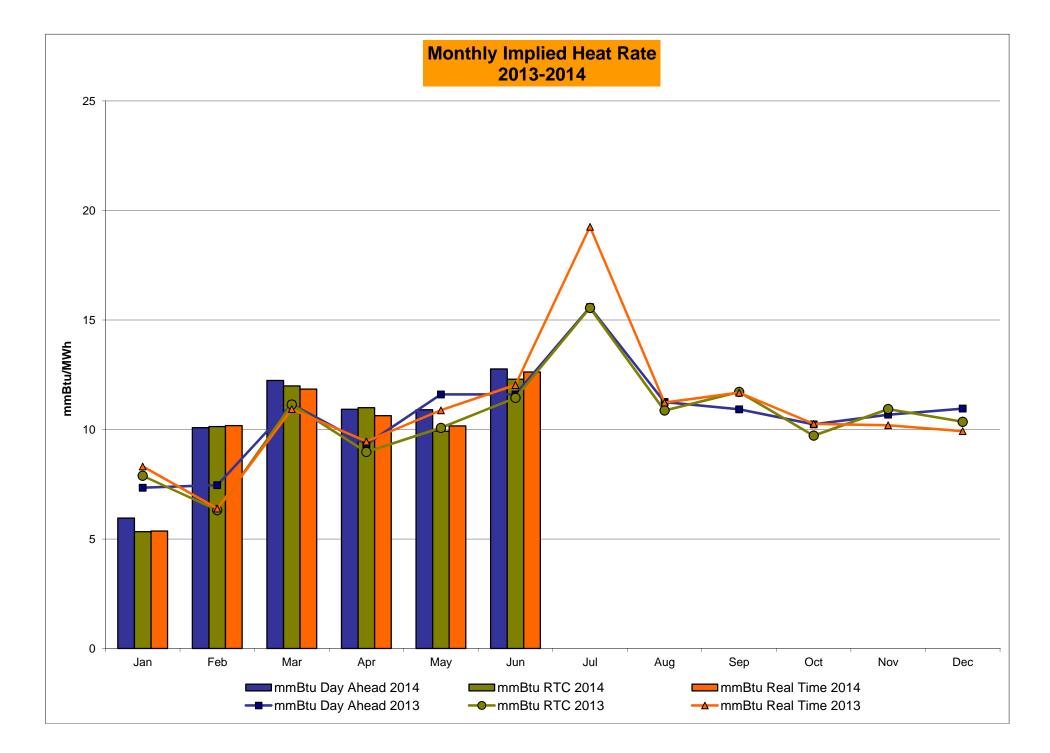
	-	NTIOU WAIK		,		O O . Marie		<i>,,,,,,</i>				
2014	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market	<u> </u>		' <u></u> '	· <u></u>		<u> </u>		<u> </u>	<u></u>	<u></u>	<u> </u>	
10 Min Spin East	17.19	12.62	13.27	8.57	4.77	5.11						
10 Min Spin West	10.02	7.32	6.36	4.47	2.92	2.69						
10 Min Non Synch East	8.40	4.78	5.86	4.44	2.86	3.37						
10 Min Non Synch West	2.02	1.23	0.70	0.55	1.06	0.96						
30 Min East	1.77	0.93	0.47	0.24	0.09	0.08						
30 Min West	1.77	0.93	0.47	0.24	0.09	0.08						
Regulation East	37.05	24.05	21.29	9.12	7.99	8.30						
Regulation West	37.05	24.05	21.29	9.12	7.99	8.30						
-												
RTC Market												
10 Min Spin East	19.32	16.64	14.76	5.34	1.52	1.87						
10 Min Spin West	12.18	13.16	10.93	1.61	0.33	0.61						
10 Min Non Synch East	7.43	0.26	2.10	1.14	0.00	0.52						
10 Min Non Synch West	1.68	0.00	0.72	0.00	0.00	0.00						
30 Min East	0.08	0.00	0.12	0.00	0.00	0.00						
30 Min West	0.08	0.00	0.12	0.00	0.00	0.00						
Regulation East	30.21	29.03	24.35	9.64	7.83	8.95						
Regulation West	30.21	29.03	24.35	9.64	7.83	8.95						
NYCA Regulation Movement	0.28	0.27	0.26	0.17	0.15	0.17						
Real Time Market												
10 Min Spin East	19.64	15.48	12.19	4.15	1.78	1.92						
10 Min Spin Last	13.10	11.80	9.11	0.94	0.61	0.72						
10 Min Non Synch East	9.03	0.70	1.59	0.93	0.00	0.48						
•												
10 Min Non Synch West 30 Min East	3.37	0.00	0.48	0.00	0.00	0.00						
	1.10	0.00	0.11	0.00	0.00	0.00						
30 Min West	0.92	0.00	0.11	0.00	0.00	0.00						
Regulation East	31.50	29.02	23.52	9.02	7.87	9.21						
Regulation West	31.50	29.02	23.52	9.02	7.87	9.21						
NYCA Regulation Movement	0.27	0.27	0.27	0.17	0.15	0.18						
2013	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
2013 Day Ahead Market	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
	<u>January</u> 11.12	<u>February</u> 9.05	<u>March</u> 8.73	<u>April</u> 6.49	<u>May</u> 9.25	<u>June</u> 7.59	<u>July</u> 10.13	August 6.84	September 7.65	October 7.85	November 7.68	December 10.35
Day Ahead Market	<del></del>	<del></del>			-			-	-			
Day Ahead Market  10 Min Spin East  10 Min Spin West	11.12	9.05	8.73	6.49	9.25	7.59	10.13	6.84	7.65	7.85	7.68	10.35
Day Ahead Market  10 Min Spin East	11.12 7.72	9.05 5.53	8.73 4.34	6.49 4.46	9.25 4.67	7.59 4.46	10.13 4.06	6.84 3.94	7.65 4.40	7.85 4.38	7.68 4.37	10.35 5.23
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East	11.12 7.72 2.91	9.05 5.53 4.79	8.73 4.34 4.36	6.49 4.46 3.36	9.25 4.67 4.52	7.59 4.46 3.73	10.13 4.06 8.31	6.84 3.94 3.37	7.65 4.40 3.62	7.85 4.38 3.82	7.68 4.37 3.45	10.35 5.23 4.37
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West	11.12 7.72 2.91 1.11 0.56	9.05 5.53 4.79 1.73	8.73 4.34 4.36 0.84	6.49 4.46 3.36 1.38	9.25 4.67 4.52 0.55	7.59 4.46 3.73 0.88	10.13 4.06 8.31 2.27	6.84 3.94 3.37 0.60 0.33	7.65 4.40 3.62 0.63	7.85 4.38 3.82 0.70 0.28	7.68 4.37 3.45 0.96	10.35 5.23 4.37 0.87 0.65
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min East	11.12 7.72 2.91 1.11 0.56 0.56	9.05 5.53 4.79 1.73 0.65 0.65	8.73 4.34 4.36 0.84 0.56 0.56	6.49 4.46 3.36 1.38 0.53 0.53	9.25 4.67 4.52 0.55 0.36 0.36	7.59 4.46 3.73 0.88 0.40 0.40	10.13 4.06 8.31 2.27 0.62 0.62	6.84 3.94 3.37 0.60 0.33 0.33	7.65 4.40 3.62 0.63 0.23 0.23	7.85 4.38 3.82 0.70 0.28 0.28	7.68 4.37 3.45 0.96 0.59 0.59	10.35 5.23 4.37 0.87 0.65 0.65
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	11.12 7.72 2.91 1.11 0.56 0.56 15.94	9.05 5.53 4.79 1.73 0.65 0.65 12.70	8.73 4.34 4.36 0.84 0.56 0.56 9.21	6.49 4.46 3.36 1.38 0.53 0.53 9.93	9.25 4.67 4.52 0.55 0.36 0.36 8.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80	6.84 3.94 3.37 0.60 0.33 0.33 8.29	7.65 4.40 3.62 0.63 0.23 0.23 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98	7.68 4.37 3.45 0.96 0.59 0.59 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West	11.12 7.72 2.91 1.11 0.56 0.56	9.05 5.53 4.79 1.73 0.65 0.65	8.73 4.34 4.36 0.84 0.56 0.56	6.49 4.46 3.36 1.38 0.53 0.53	9.25 4.67 4.52 0.55 0.36 0.36	7.59 4.46 3.73 0.88 0.40 0.40	10.13 4.06 8.31 2.27 0.62 0.62	6.84 3.94 3.37 0.60 0.33 0.33	7.65 4.40 3.62 0.63 0.23 0.23	7.85 4.38 3.82 0.70 0.28 0.28	7.68 4.37 3.45 0.96 0.59 0.59	10.35 5.23 4.37 0.87 0.65 0.65
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West	11.12 7.72 2.91 1.11 0.56 0.56 15.94	9.05 5.53 4.79 1.73 0.65 0.65 12.70	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74
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	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74
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	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West  Regulation East  Regulation West  RTC Market  10 Min Spin East  10 Min Spin West  10 Min Spin West	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West  Regulation East  Regulation West  RTC Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch East  10 Min Non Synch West	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80	6.84 3.94 3.37 0.60 0.33 8.29 8.29 1.99 0.29 0.16 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min East 30 Min East 30 Min West Regulation East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 0.00 6.42	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 0.00 0.00 6.81	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West  Regulation East  Regulation West  RTC Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min East  Regulation West	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 0.00 6.81 6.81	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 0.00 9.63 9.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min East 30 Min East 30 Min West Regulation East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 0.00 6.42	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 0.00 0.00 6.81	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West  Regulation East  Regulation West  RTC Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min East  Regulation West	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 0.00 6.81 6.81	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 0.00 9.63 9.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation East Regulation West Regulation West	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84 6.84 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 0.00 6.42 6.42 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.16 0.00 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65  7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation Movest Regulation East Regulation Movement Real Time Market 10 Min Spin East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 0.00 15.18 15.18 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.29 0.16 0.00 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 0.00 9.63 9.63 0.22	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation Movent Regulation West Regulation Movement Real Time Market 10 Min Spin East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 0.00 6.42 6.42 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.29 0.16 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65 7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 0.00 9.63 9.63 0.22 4.68 2.16	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation East Regulation East Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 0.00 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65  7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21  7.03 1.83 4.37	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 0.20
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West Regulation Movest Regulation West NYCA Regulation Movement  Real Time Market 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Spin West	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07 2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27 3.41 0.94 2.22 0.53	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 1.99 0.29 0.16 0.00 0.00 6.81 6.81 0.18	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65  7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21  7.03 1.83 4.37 0.70	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation East Regulation East Regulation East Regulation West Regulation West NYCA Regulation Movement  Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin West	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00  18.42 9.22 8.81 2.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00 4.63 3.00 0.52 0.00 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27  3.41 0.94 2.22 0.53 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.29 0.16 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65  7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21  7.03 1.83 4.37 0.70 0.17	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min East 30 Min West Regulation East Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin East NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00 0.00 0.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00 4.63 3.00 0.52 0.00 0.05 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00 6.12 1.44 0.93 0.10 0.00 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00 0.00 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27  3.41 0.94 2.22 0.53 0.00 0.00 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28 20.24 7.29 14.51 4.91 7.99 4.55	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.16 0.00 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65  7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21  7.03 1.83 4.37 0.70 0.17 0.17	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00 0.00 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34 0.00 0.00
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation Movest Regulation East Regulation East Regulation West NYCA Regulation Movement  Real Time Market 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min West Regulation East 30 Min West Regulation East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00 0.00 0.00 15.40	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70  4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00  4.63 3.00 0.52 0.00 0.00 0.00 0.00 0.00 0.00 0	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00 6.12 1.44 0.93 0.10 0.00 0.00 6.89	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 9.93 3.28 0.90 0.18 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00 0.00 0.00 0.00 7.03	9.25 4.67 4.52 0.35 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00 6.48	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27  3.41 0.94 2.22 0.53 0.00 0.00 10.55	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28 20.24 7.29 14.51 4.91 7.99 4.55 16.57	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.16 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00 0.00 0.00 0.00 0.0	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65  7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21  7.03 1.83 4.37 0.70 0.17 0.17 8.90	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00 0.00 0.00 9.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00 0.00 0.00 0.00 0.00 0.0	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34 0.00 0.00
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation East Regulation West  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min East 30 Min West Regulation East Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin East NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East	11.12 7.72 2.91 1.11 0.56 0.56 15.94 15.94 16.42 8.50 6.48 1.04 0.00 0.00 15.18 15.18 0.00 18.42 9.22 8.81 2.00 0.00 0.00 0.00	9.05 5.53 4.79 1.73 0.65 0.65 12.70 12.70 4.81 3.10 0.28 0.00 0.00 0.00 8.81 8.81 0.00 4.63 3.00 0.52 0.00 0.05 0.00	8.73 4.34 4.36 0.84 0.56 0.56 9.21 9.21 9.21 6.94 1.90 0.70 0.15 0.00 0.00 7.43 7.43 0.00 6.12 1.44 0.93 0.10 0.00 0.00	6.49 4.46 3.36 1.38 0.53 0.53 9.93 9.93 9.93 3.28 0.90 0.18 0.00 0.00 0.00 6.84 6.84 0.00 3.35 1.15 0.06 0.00 0.00 0.00 0.00 0.00 0.00	9.25 4.67 4.52 0.55 0.36 0.36 8.84 8.84 2.59 0.05 1.48 0.00 0.00 6.42 6.42 0.00 3.03 0.13 1.84 0.00 0.00 0.00	7.59 4.46 3.73 0.88 0.40 0.40 11.07 11.07  2.65 0.48 1.50 0.22 0.00 0.00 10.42 10.42 0.27  3.41 0.94 2.22 0.53 0.00 0.00 0.00	10.13 4.06 8.31 2.27 0.62 0.62 9.80 9.80 9.80 8.23 0.57 7.23 0.26 0.03 0.03 9.77 9.77 0.28 20.24 7.29 14.51 4.91 7.99 4.55	6.84 3.94 3.37 0.60 0.33 0.33 8.29 8.29 0.16 0.00 0.00 0.00 6.81 6.81 0.18 2.37 0.80 0.07 0.00 0.00	7.65 4.40 3.62 0.63 0.23 0.23 8.65 8.65  7.40 2.56 4.63 1.39 0.24 0.24 8.93 8.93 0.21  7.03 1.83 4.37 0.70 0.17 0.17	7.85 4.38 3.82 0.70 0.28 0.28 8.98 8.98 3.70 0.97 0.44 0.00 0.00 8.26 8.26 0.24 4.14 1.73 0.31 0.00 0.00 0.00 0.00	7.68 4.37 3.45 0.96 0.59 0.59 8.38 8.38 5.11 2.68 0.38 0.00 0.00 9.63 9.63 9.63 0.22 4.68 2.16 0.63 0.00 0.00 0.00 0.00	10.35 5.23 4.37 0.87 0.65 0.65 9.74 9.74 9.53 5.16 1.17 0.13 0.00 0.00 13.75 13.75 0.20 7.29 3.31 1.31 0.34 0.00 0.00

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

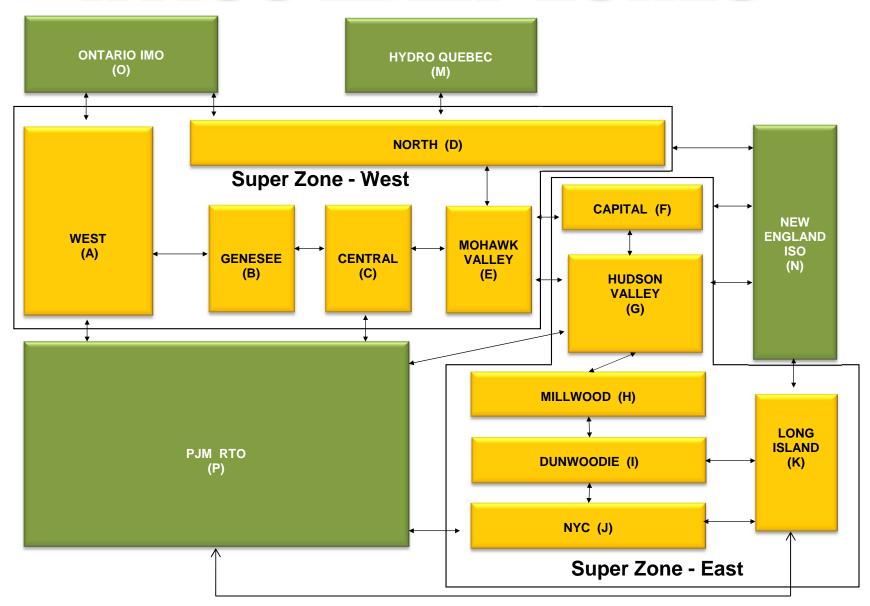








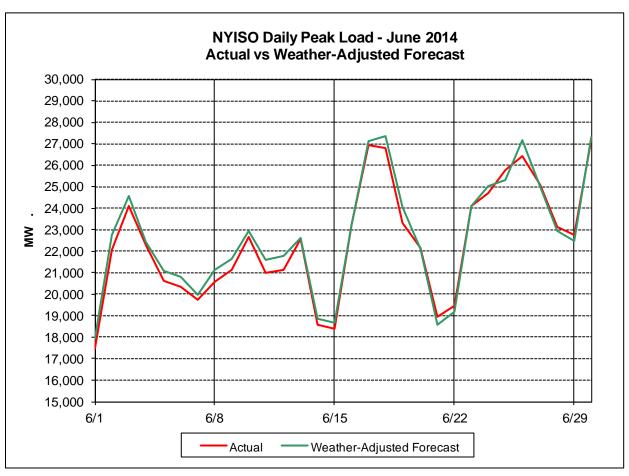
# NYISO LBMP ZONES

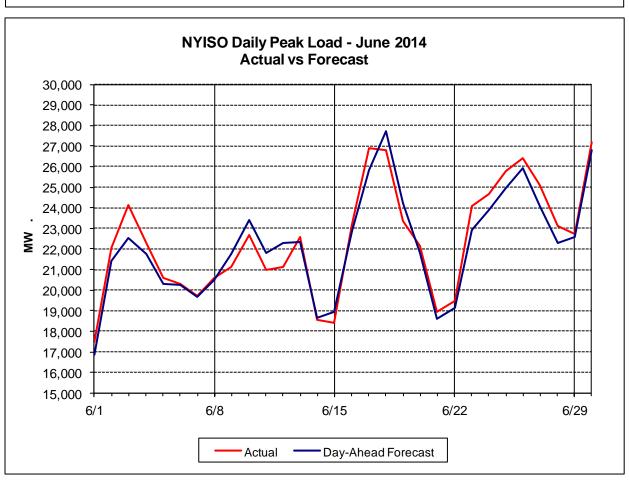


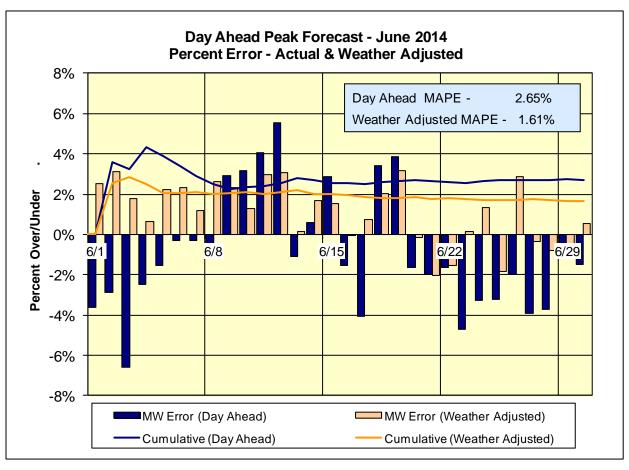
#### **Billing Codes for Chart 4-C**

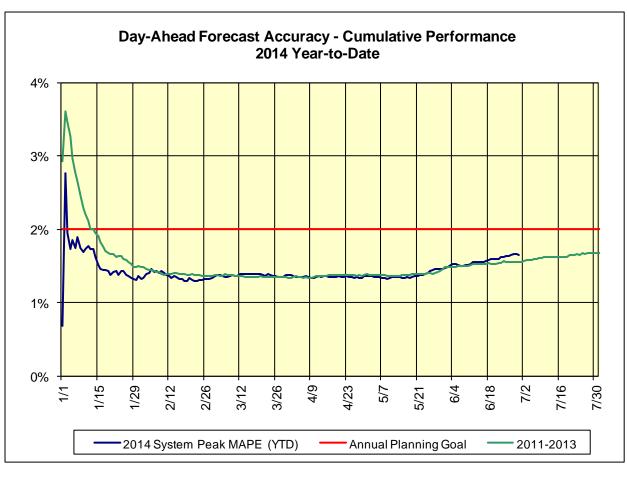
Chart - C Category Name	Billing Code	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81205	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee Balancing	81208	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81209	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81213	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee DAM	81201	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	84001	EDRP/SCR Demand Response - Local
Bid Production Cost Guarantee DAM	84101	EDRP/SCR Demand Response - NYISO Wide
Bid Production Cost Guarantee DAM	81401	DAM Price Responsive Load Program
Bid Production Cost Guarantee DAM	81202	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM	81206	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	81207	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM Virtual	81501	DAM Virtual Bid Production Cost Guarantee
DAM Contract Balancing	81315	DAM Contract Balancing
DAM Contract Balancing	81317	DAM Contract Balancing
Local Reliability Balancing	81002	Balancing Local Reliability Bid Production Cost Guarantee
Local Reliability Balancing	83901	Margin Restoration (MOB) Revenue
Local Reliability DAM	81001	DAM Local Reliability Bid Production Cost Guarantee
NYISO Cost of Operations	80901	NYISO Cost Of Operations
NYISO Cost of Operations	80902	NYISO Cost Of Operations
NYISO Cost of Operations	83501	NYISO Cost Of Operations
NYISO Cost of Operations	83502	NYISO Cost Of Operations
Residuals Balancing	81302	Balancing Market Energy Residual
Residuals Balancing	81304	Balancing Market Loss Residual
Residuals Balancing	81305	Balancing Market Congestion Balancing
Residuals Balancing	81306	Emergency Energy Purchases
Residuals Balancing	81307	Emergency Energy Sales
Residuals Balancing	81309	Balancing Market Energy Residual
Residuals Balancing	81311	Balancing Market Loss Residual
Residuals Balancing	81312	Balancing Market Congestion Balancing
Residuals Balancing	81313	Emergency Energy Purchases
Residuals Balancing	81314	Emergency Energy Sales
Residuals DAM	81301	Day Ahead Market Energy Residual
Residuals DAM	81303	Day Ahead Market Loss Residual
Residuals DAM	81308	Day Ahead Market Energy Residual
Residuals DAM	81310	Day Ahead Market Loss Residual

Market Mitigation and Analysis Prepared: 7/7/2014 8:37 AM











Project	Status and Milestone Deliverables
	Business Intelligence Products
Business Intelligence Roadmap: Data Integration	<b>Status:</b> The purpose of this multi-year project is to improve the Business Intelligence IT service model at NYISO. Planning and design commenced in 2013 with plans to undertake a study in 2014 to identify a data integration and storage technology product for purchase, with implementation to follow in 2015. The data integration and storage solution will provide NYISO the capability to move large data sets to and from business partners and among internal systems in a sustainable manner. The system will have the ability to perform impact analysis and data quality monitoring, which are key to maintaining quality and controlling risk in an increasingly partner integrated environment. The study is complete with a recommendation to procure and deploy a product in 2015 with expanded capabilities recommended for implementation in 2016. <b>Deliverables:</b> The focus of this project in 2014 is the completion of a study to recommend a product for procurement in 2015.
Electric Quarterly Report (EQR) Enhancements	<b>Status:</b> FERC has updated the required information and format for providing EQR reports. NYISO Market Participants have benefited from a report generated out of DSS for many years. Market Participants have requested NYISO to update the existing report with additional information and formatting to better match the newer FERC requirements. Updating the existing report will require additional data to be loaded in to DSS as well as changes to the existing reports. This project deployed in May. This project is complete. <b>Deliverables:</b> The 2014 project will focus on delivering enhancements to existing reports to align with the additional FERC requirements.
Public Website Technology Upgrade	<b>Status:</b> The purpose of this project is to upgrade the underlying technology for the NYISO public website. The existing technology will be replaced with a more cost-effective solution.



Project	Status and Milestone Deliverables
	<b>Deliverables:</b> The 2014 project deliverable is the deployment of the technology upgrade.
	Capacity Market Products
Additional Capacity Zones	<b>Status:</b> Additional Capacity Zones is a FERC Mandate and a response to the Independent Market Advisor's 2009 State of the Market Report. Implementation is in progress with the ICAP Automated Market System software deployment planned for Q1 2014 in advance of the Summer Capability Period. This is a significant software effort that requires extensive regression testing. This effort is coupled with the Additional Capacity Zones mitigation software changes and all tariff revisions specific to new capacity zones and mitigation within new capacity zones. This project was deployed in February. This project is complete. <b>Deliverables:</b> The 2014 project deliverable is the software deployment.
	Denverses The Lot 1 project denverses is the continued deproyment.
ICAP Auction Validation and Reporting	<b>Status:</b> The purpose of this project is to provide multiple NYISO Business Owners access to the same data set utilizing updated technology that is supported by IT. The scope of this project includes replacing Access queries with an ICAP universe and reporting tools. This project is complete.
reporting	<b>Deliverables:</b> The 2014 project deliverable is the development of the functional requirements and plans for a software deployment in 2015.
ICAP Reference System	<b>Status:</b> Market Mitigation and Analysis (MMA) collects extensive financial data from generation owners in order to perform the ICAP market mitigation measures. Now that the data collection process is standardized, efficiency and transparency could be gained by creating a web-based data portal that would allow MPs to upload and review their data. The NYISO and its consultants could use the data portal in the review process and to facilitate discussions with MPs.



Project	Status and Milestone Deliverables
	The anticipated deliverable is a Web-based software application, similar in concept to the Reference Level Software (RLS), but with different functionality. This software will enable MMA to complete pre-mitigation determinations for new capacity zones in an automated and timely manner. The software was deployed in March. This project is complete.  Deliverables: The 2014 project deliverable is the completion of testing and the software deployment.
	Demand Response Products
Demand Response – Real Time Energy Market	<b>Status:</b> NYISO will focus on the development of market rules and identification of software changes required to permit demand response entities to participate in the NYISO's real-time energy market. BIC and OC approved the Market Design concepts for this multi-year project in December 2012. Business Requirements were approved in 2013. <b>Deliverables:</b> Obtaining stakeholder approval on the market design is the focus of the project in 2014.
SCR Provisional ACL Phase	<b>Status:</b> The SCR Program is the largest of the NYISO's demand response programs, both in the number of individual demand side resources and MW. Since the SCR baseline changes were implemented in April 2011, the NYISO has received a significant number of comments, including three market participant presentations at the ICAPWG, regarding SCRs enrolled with a Provisional ACL. One of the presentations related to using the Provisional ACL as a way to allow resources to account for an increase in load since the last Capability Period, which would allow the SCR to offer more capacity. The scope of the project is intended to address four key areas from stakeholder comments:  1) Address allowance for the use of Provisional ACL for SCRs that change RIPs;



Project	Status and Milestone Deliverables
	<ol> <li>Review the limitation on Provisional ACL for three consecutive Capability Periods;</li> <li>Review SCR Load Zone Peak Hours for Winter ACL; and</li> <li>Address increased baseline with reporting process to increase ACL values within a Capability Period.</li> </ol>
	The first phase was successfully deployed in October 2013. The second phase of this project was successfully deployed in March. The remaining scope is scheduled for deployment in October.
	<b>Deliverables:</b> The focus of the 2014 project is the deployment of the next phases of software changes.
SCR Baseline Study	<b>Status:</b> This project will evaluate the current Average Coincident Load (ACL) against a number of alternative response baseline calculations using a Customer Baseline Load (CBL) for SCRs. In February 2011, when the NYISO proposed, and stakeholders accepted, the change to the SCR baseline from Average Peak Monthly Demand (APMD) to ACL, the NYISO committed to conducting a study to evaluate an additional set of baseline calculations for measuring event response. The objective of the study is to determine if there is a method of estimating response to an event that will provide a better estimate of event response than the ACL. The study is complete.
	<b>Deliverables:</b> The focus of the 2014 project is a NYISO Management response to the study completed at the end of 2013.
Order 745 – Day Ahead Demand Response Program (DADRP) Compliance	<b>Status:</b> NYISO planned to implement the net benefits test in March 2012 based on the compliance filing submitted in August 2011. However, implementation was placed on hold pending a response from FERC. Also, as part of the compliance obligation, NYISO completed a study in August 2012 to evaluate the feasibility of incorporating a dynamic net



Project	Status and Milestone Deliverables
	benefits test into the day-ahead and real-time unit commitment and scheduling processes. A compliance filing detailing the results of the feasibility study was submitted to FERC in September 2012. FERC issued an Order on May 16, 2013 in response to NYISO's August 2011 filing. NYISO requested a 60-day extension on the compliance filing, which was subsequently approved for August 14. Also, NYISO requested rehearing on the cost allocation methodology.
	<b>Deliverables:</b> Upon receipt of responses from FERC regarding the August 14, 2013 compliance filing and the request for rehearing, NYISO will evaluate the responses and determine a feasible implementation date.
	Energy Market Products
Coordinated Transaction Scheduling (CTS) with New England	<b>Status:</b> In 2012 FERC accepted the joint filings of NYISO and ISONE to implement CTS. CTS will enable Market Participants to submit transaction bid costs as an arbitrage spread value, instead of today's \$/MW pair. This spread will be merged with ISONE's supply curve and then optimized by NY for transaction scheduling. To help facilitate this new trading and to insure proper data transparency between the ISOs and the MPs, a new common bid platform will be built and run by NYISO. In addition, data will be exchanged between NY and NE to help facilitate settlements and operator interaction.
	<b>Deliverables:</b> The focus of this project in 2014 will be development completed of all systems needed to begin joint testing in March 2015 and activate CTS with NE in Q4 2015.
Coordinated Transaction Scheduling with PJM	<b>Status:</b> The State of the Market has recommended that NYISO continue to work with its neighbors to provide market efficiencies from transaction scheduling. This project will look to expand upon the work and concepts outlined in CTS with NE to improve transaction scheduling inefficiencies that can occur between PJM's physical transaction modeling and NYISO's economic based scheduling models. A market design concept was completed in 4 <sup>th</sup>



Project	Status and Milestone Deliverables
	quarter 2012. NYISO and PJM Stakeholders approved the market design in 2013. Software development was completed at the end of 2013. The software was deployed in March in preparation for the joint testing cycle between NYISO and PJM.
	<b>Deliverables:</b> The focus of this project in 2014 is the software deployment, joint testing and implementation.
Scheduling and Pricing: Graduated Transmission Demand Curve	<b>Status:</b> The 2012 State of the Market (SOM) recommends the NYISO consider the feasibility and potential impacts on reliability and system security from using a graduated Transmission Shortage Cost. The SOM states, "RTD uses a "Transmission Shortage Cost" that limits the re-dispatch costs that may be incurred to \$4,000/MWh when managing congestion. However, our analysis suggests that this level may be higher than necessary to maintain reliability during some brief shortages." The single 'penalty point' is too high and may result in ineffective generation re-dispatch in response to transmission constraints given established operating practices and capabilities. A graduated demand curve will improve the accuracy of the Transmission Shortage Cost and will make for a more efficient commitment and dispatch actions, and set more efficient prices. <b>Deliverables:</b> The focus of this project in 2014 is FERC approval of tariff changes and implementation of the software changes.
	Enterprise Products
Enterprise Project Management (EPM): Phases II and III	<b>Status:</b> In 2012 NYISO implemented Microsoft Project 2010 on the EPMLive application to 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. Additional phases will continue the implementation of the EPMLive application to provide a centralized system with enterprise time reporting, and an enterprise view of project demand, resource capacity, project costs, and resource utilization to support



Project	Status and Milestone Deliverables
	key decision making processes. In 2013 the EPMLive time tracking module was configured to align with the requirements of the Enterprise Cost Management (ECM) initiative and the business requirements for resource management were approved. The time tracking functionality was activated in March. The resource management functionality is scheduled for deployment in December.
	<b>Deliverables:</b> 2014 deliverables include an enterprise implementation of the time tracking functionality, followed by deployment of resource management functionality for project management and resource capacity planning.
Enterprise Technology Monitoring	<b>Status:</b> This purpose of this project is to provide IT with the necessary toolset to effectively manage the NYISO technology portfolio. Investment in new tools and processes is necessary to maintain the availability of business services, including Market to Market and Smart Grid applications that require infrastructure not technically compatible with NYISO's current monitoring platform. This project will define an enterprise monitoring strategy and build a foundational solution that is capable of monitoring all core infrastructure services. Subsequent initiatives will deploy the monitoring strategy for all critical business services and enable proactive monitoring of key services to prevent and reduce downtime. <b>Deliverables:</b> The project deliverable for 2014 is completion of the architecture design.
	Status: This multi-year project is NYISO's top security priority for mitigating cyber security
Identity and Access Management (IAM)	risks. To enhance NYISO's security posture and improve compliance with NERC Critical Infrastructure Protection (CIP) standards, the NYISO is in progress on this initiative to enable and control cyber access to its critical technology systems, and physical access to NYISO facilities, for employees and contractors.
	<b>Deliverables:</b> The focus of this project in 2014 is implementation to complete the



Project	Status and Milestone Deliverables
	migration of existing functionality to a supported system prior to the vendor's retirement of the current product in 2014, and to expand IAM access control to CIP assets in support of the NYISO cyber security strategy.
Stakeholder Services Suite	<b>Status:</b> To improve customer service and satisfaction, the NYISO has included the creation of a Stakeholder Services Suite of tools in its 2013-2017 Strategic Plan. The vision for this multi-year initiative is to improve relationships between the NYISO and its stakeholders by providing NYISO team members with comprehensive views of current and historical customer inquiries that enable more effective responses to customer requests. The Customer Relationship Management (CRM) solution will enable the NYISO Stakeholder and Member Relations (SMR) team to better manage customer interactions from initial contact, to registration, training, and ongoing communication. The CRM solution will also provide customers a self-service, web-based portal to view inquiry status and manage contact information. <b>Deliverables:</b> The focus of this project in 2014 is the deployment of the first phase of this multi-year project.
	Finance Products
Credit Management System: Enhanced Market Participant Data Access	<b>Status:</b> This project includes several changes to the Credit Management System (CMS) to provide additional access to data for Market Participants and related automation of tasks. This project will provide MPs with access to FERC Order 741 minimum participation data while also automating and providing the Credit Department with better tools to track the required certifications, capitalization, risk procedures, and verification. This project will also include automation of collateral calls for the TCC, DADRP, DSASP, and WTSC markets to send notifications to the MPs to provide consistency across markets in the collateral call notification process. The software changes were deployed in June. This project is complete.



Project	Status and Milestone Deliverables
	<b>Deliverables:</b> The focus of this project in 2014 is implementation of the software changes.
Oracle Financials Upgrade	<b>Status:</b> The purpose of this project is to upgrade the existing application to an enhanced and more technologically advanced version of Oracle Financials to better support the existing functionality of the Finance team and to allow the team to perform at a higher level of efficiency. An upgrade will provide the Finance team the ability to utilize improved and more user friendly functions in the existing modules. Also, an upgrade to the latest version will allow the team to take advantage of new modules and functionality to further automate manual processes for procurement and utilize additional functionality for accounts payable, sub-ledger accounting and reporting tools. The software upgrade was deployed in May. This project is complete. <b>Deliverables:</b> The focus of this project in 2014 is completion of the software upgrade.
Procurement Enhancements	<b>Status:</b> The purpose of this project is to provide tools for two main groups of functionality, process automation and data analytics, in order to aid the procurement team in alleviating their manual work processes and making more timely procurement decisions. The function requirements were completed in June. Implementation is planned for 2015. <b>Deliverables:</b> The focus of this project in 2014 is completion of the functional requirements.
	Operations & Reliability Products
Energy Management System (EMS) Visualization	<b>Status:</b> This project is the continuation of the 2012-2013 projects to design and develop a software system capable of collating and displaying operationally relevant information to Operators and support staff in the control center. Leveraging the tools and infrastructure,





Project	Status and Milestone Deliverables
	additional capabilities will be developed. The first phase was successfully deployed in January 2014. The remaining scope is scheduled for deployment in September.
	<b>Deliverables:</b> The focus of this project in 2014 is implementation of software changes.
	<b>Status:</b> The NYISO's ability to simulate the Day-Ahead Market was instrumental to the success of FERC's Office of Enforcement ("OE") actions against Constellation. As such, the FERC OE is requesting that all ISOs develop the capabilities demonstrated by the NYISO, and in NYISO's specific case, to expand upon on current fundamental analysis capabilities. One million dollars in funding was provided to the NYISO as part of the Constellation Settlement. After consideration and review of numerous possible enhancements, MMA has settled on two primary categories of modifications to the market operations software (Ranger) that meet the FERC OE's requirements:
FERC Funded Project	<ol> <li>RTS Simulation Capability:</li> <li>Enhancements to Simulation Results Reporting and Simulation Data Input (MMA Ranger "Area" Enhancements)</li> </ol>
	Phase 2 of this project, will enhance MMA's SAS reporting capabilities. This was deployed in June. The plan is to use the rest of the settlement funds to develop additional enhancements in 2015.
	<b>Deliverables:</b> The 2014 project is the continuation of the 2013 FERC Funded Re-Run Capability project. The team focused on development in 2013. The 2014 project will allow the team to complete testing the new functionality and implement it in the MMA Ranger area.
Ranger Optimization &	Status: The NYISO's unit commitment and economic dispatch process utilizes Lagrangian





Project	Status and Milestone Deliverables
Performance Enhancements	Relaxation (LR) and MINOS technologies. These are being replaced across the industry with Mixed Integer Programming (MIP)/linear programming optimization approach. The NYISO is the last remaining Ventyx/ABB customer on legacy LR/MINOS, which was developed in the late 1970s. MIP provides increased constraint modeling flexibility through high level modeling languages and current compiler and system optimization development, as well as greater IT support. The vendor completed software development in 2013. <b>Deliverables:</b> The focus of this project in 2014 is completion of testing and implementation.
	Planning and TCC Market Products
FERC Order 1000	Status: As required in Order 1000, the NYISO made compliance filings to address transmission planning and cost allocation requirements. In order to maintain consistency between these new filings, tariff language and the NYISO manuals, policies and procedures implementing them, there is a need to update and/or create such documents. Order 1000 requires the NYISO to update policies and procedures currently used in the RPP-Reliability Planning Process ("RPP", formerly known as the "Comprehensive Reliability Planning Process" or "CRPP") and, to a lesser extent, CARIS – Congestion Assessment & Resource Integration Study. These System and Resource Planning (SRP) documents will incorporate changes to manuals, rate schedules, Tariff(s) and supporting documents.  Deliverables: The focus of this project in 2014 is the updating of the NYISO policies and procedures, fillings and Tariff language as a result of or related to Order 1000.
TCC Centralized Auction Rounds	<b>Status:</b> The NYISO has a tariff obligation to conduct four auction rounds per TCC product offered in Centralized TCC Auctions unless the New York Transmission Owners reach unanimous consent and provide the NYISO a waiver to conduct fewer than four rounds. Market Participants have indicated through discussion in stakeholder committee meetings,





Project	Status and Milestone Deliverables
	other feedback and TCC auction surveys that they would prefer fewer rounds and a shorter overall auction cycle.
	<b>Deliverables:</b> The focus of this project in 2014 is to complete the study and discuss with stakeholders.
TCC Revenue Allocation Automation	<b>Status:</b> The NYISO collects TCC revenue from the administration of the TCC Markets and the allocation of Fixed Price TCCs. The allocation of revenue associated with the TCC Markets to the Transmission Owners is currently a manual process performed by TCC Market Operations (TMO) staff using Excel and SAS toolsets. The scope of this project will be limited to the automation of allocation of revenue from the TCC Markets. The NYISO is currently working with the NY Transmission Owners to determine an agreeable methodology for the distribution of revenue from the allocation of Fixed Price TCCs. At such a time that the NYISO has an agreed upon methodology with the NY Transmission Owners, the NYISO will evaluate if automation of the Fixed Price TCC revenue allocation process can be incorporated into this project. <b>Deliverables:</b> The focus of this project in 2014 is development completion by end of year.

# Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters - June 2014

Filing Date	Filing Summary	Docket	Order Date	Order Summary
04/17/2014	NYISO filing re tariff revisions to permit improved fuel indexing of day-ahead generator reference levels	ER14-1735-000	06/27/2014	FERC letter order accepted revisions effective 6/18/14, as requested
04/25/2014	NYISO filing re: motion requesting change in the reporting time frame for the broader regional market report from semiannual to annual	ER08-1281-012	06/02/2014	FERC letter order granted request to change the reporting time frame requirement
04/30/2014	NYISO 205 tariff filing re: minimum megawatt offer requirements in the DADRP and DSASP and an unrelated ministerial eTariff correction	ER14-1816-000	06/27/2014	FERC letter order accepted revisions effective 6/29/14, as requested
05/02/2014	NYISO filing re: revisions to the NYISO/PJM JOA concerning the RTOs' implementation of the market-to-market coordination process when New York is in a storm watch condition or one of the two Ramapo PARS is out of service	ER14-1868-000	06/04/2014	FERC letter order accepted revisions effective 6/11/2014, as requested
06/04/2014	NYISO filing re: two-week notice of the implementation date of tariff revisions to permit improved fuel indexing of day-ahead generator reference levels	ER14-1735-001	06/27/2014	FERC letter order accepted revisions effective 6/18/14, as requested
06/02/2014	NYISO filing re: FERC Form 714 – annual electric balancing authority area and planning area report	No Docket No.		
06/02/2014	NYISO filing re: 2014 semi-annual new generation and demand response report	ER01-3001-000 ER03-647-000		
06/03/2014	NYISO filing re: comments on the PSC motion to establish policies and procedures regarding transmission planning for public policy purposes	PSC Case No. 14-E-0068		
06/03/2014	NYISO filing re: limited answer to TC Ravenswood concerning its application to implement a reliability oil burn service cost of service rate schedule	ER14-1711-000		
06/05/2014	NYISO filing re: notification of tariff implementation error and request for limited tariff waiver concerning possible portfolio physical withholding in the NYCA	ER14-2142-000		

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	NYISO filing re: answer to the motion to intervene and		
	protest of TC Ravenswood concerning NYISO's submission of an unexecuted minimum oil burn service		
06/05/2014	agreement	ER14-1822-000	
33,33,2311	NYISO filing re: reply comments in response to the	LIX17-1022-000	<del> </del>
	Boundless Energy comments concerning the treatment of	PSC Case No.	
06/05/2014	developers in the PSC AC transmission proceeding	13-E-0488	
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06/10/2014	NYISO filing re: 1 <sup>st</sup> quarter 2014 Electric Quarterly Report	ER02-2001-000	
<u> </u>	NYISO filing re: verified report of construction loan costs	PSC Case No.	
06/13/2014	and expenses	12-E-0168	
12.13/2311	· · · · · · · · · · · · · · · · · · ·		
06/13/2014	NYISO filing re: confidential three-month reliability	PSC Matter No.	
00/13/2014	commitment data report	10-02007	
l	NYISO and TC Ravenswood joint filing re: request for		
	abeyance of the TC Ravenswood proposed reliability oil burn service cost of service rate schedule and NYISO's		
	unexecuted minimum oil burn agreement with TC	ER14-1711-000	
06/20/2014	Ravenswood	ER14-1711-000 ER14-1822-000	
	NYISO/PJM joint filing re: tariff amendments to modify the	LIX17-1022-000	
l i	Joint Operating Agreement between NYISO and PJM for		
06/20/2014	external coordinated transaction scheduling	ER14-2236-000	
ı	NYISO filing re: response to questions related to the	PSC Matter No.	
06/23/2014	technical conference on winter energy pricing and supply	14-00933	
ı	NYISO filing re: amendment to prior filing to address		
	eTariff requirements concerning the timing of a FERC		
l i	decision in connection with a joint request with TC		
00/04/55	Ravenswood that FERC hold the minimum oil burn		
06/24/2014	proceedings in abeyance	ER14-1822-001	
 	NYISO compliance filing re: revision of the rebuttable		
00/00/0044	presumption of the pivotal supplier threshold for the G-J		
06/26/2014	Locality	ER13-1380-004	
ĺ	NYISO filing re: answer to third party protest of NYISO's		
ĺ	compliance filing to permit the participation of demand		
06/26/2014	response facilitated by behind-the-meter generation in the	ED44 0000 000	
	Day-Ahead Demand Response Program	ER14-2006-000	
06/30/2014	NYISO filing re: third report on expenditures to enhance	No Docket No.	
l	market surveillance and analytic capabilities		