

Monthly Report

March 2014

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Operations Performance Metrics Monthly Report









March 2014 Report

Operations & Reliability Department New York Independent System Operator



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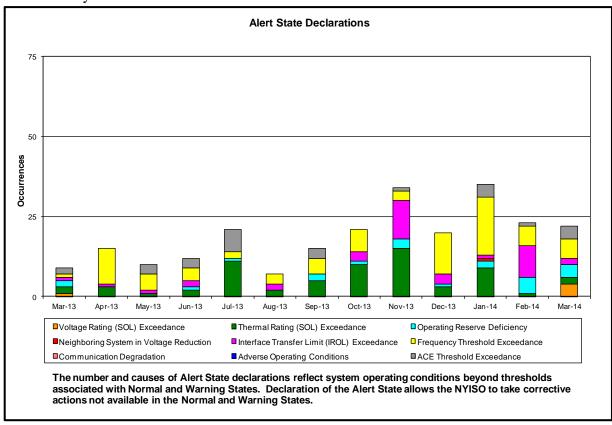


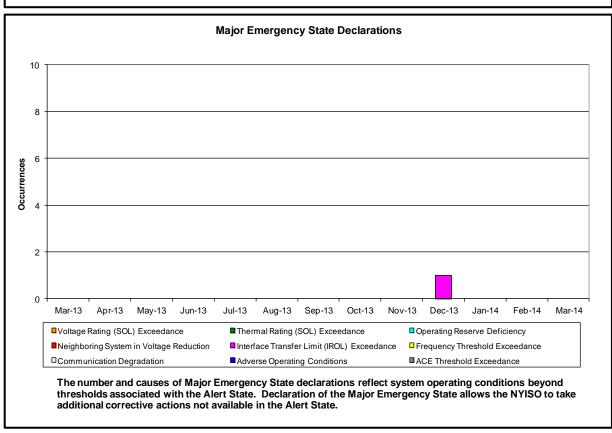
March 2014 Operations Performance Highlights

- Peak load of 23,440 MW occurred on 3/3/2014 HB 18
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 0 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- Broader Regional Market Coordination monthly value was \$0.36M
- Broader Regional Market Coordination year-to-date value was \$5.66M
- Statewide uplift cost monthly average was \$(0.38)/MWh
- Local reliability uplift cost monthly average was \$0.64/MWh

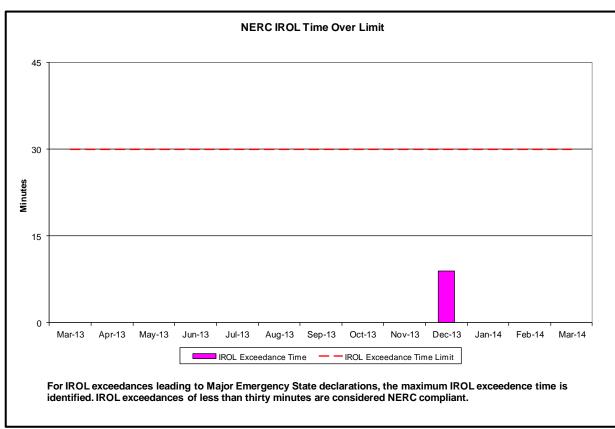


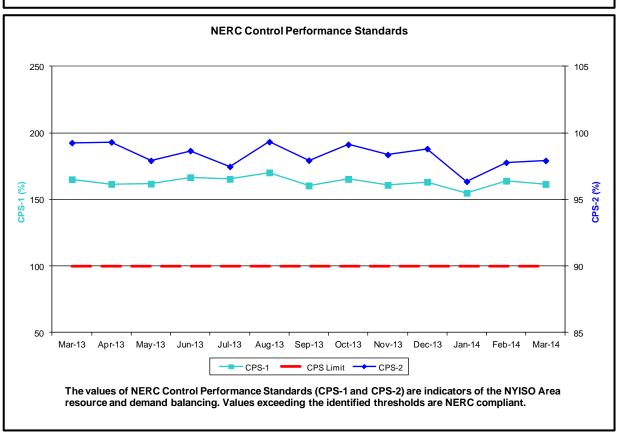
Reliability Performance Metrics



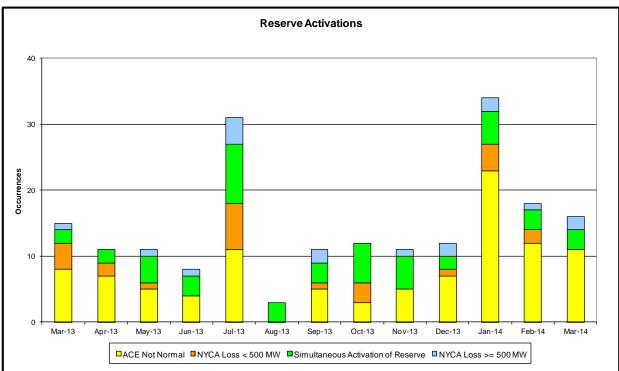




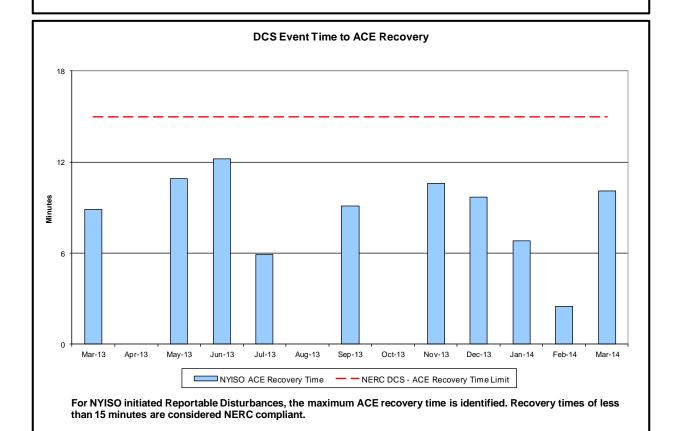




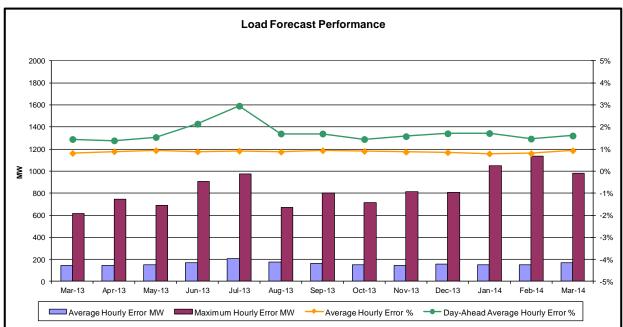




NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Simultaneous Activation of Reserves) by activating an immediate resource and demand balancing operation.



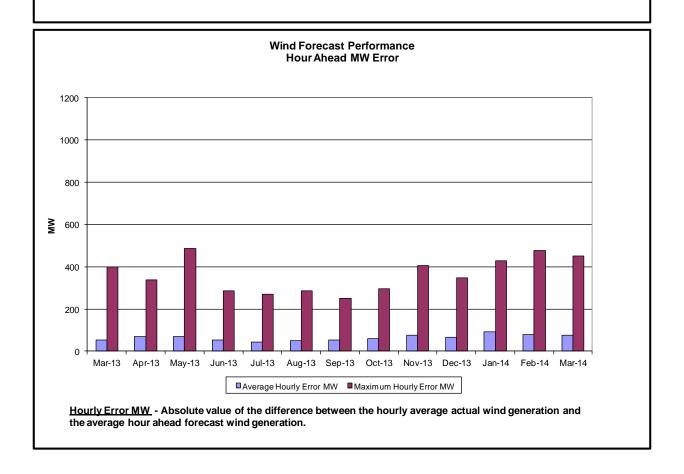




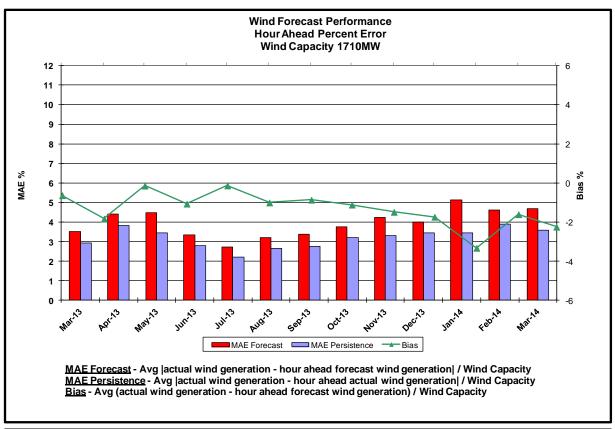
<u>Hourly Error MW</u> - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

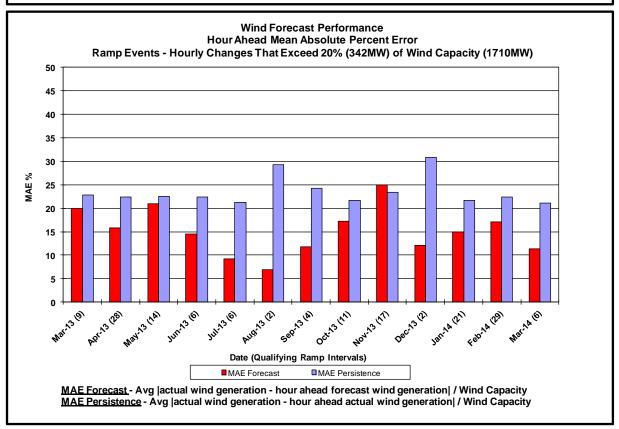
<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

<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.

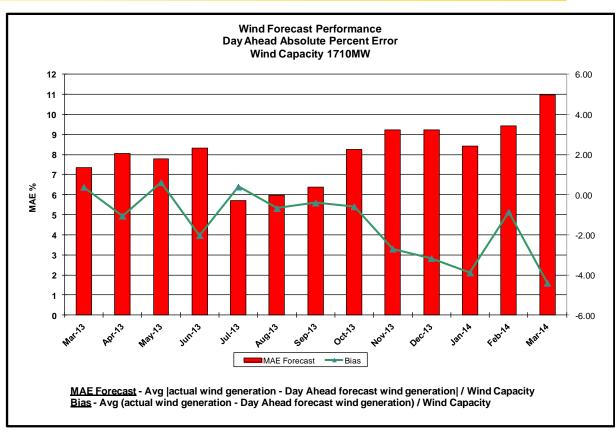


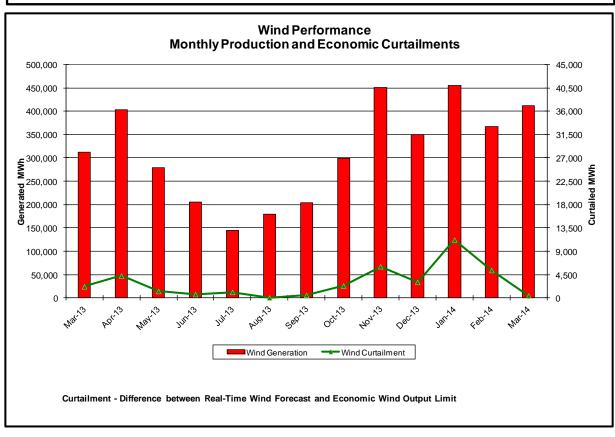




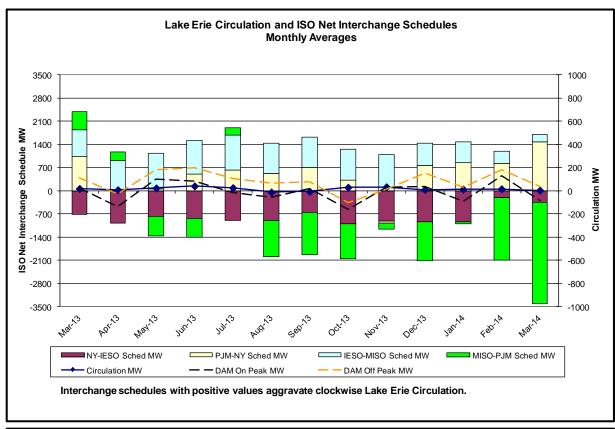


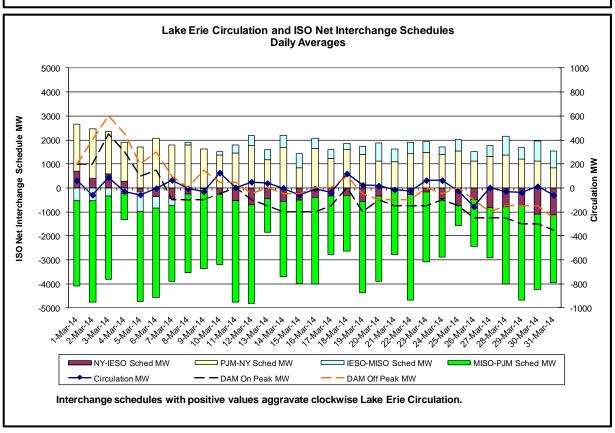






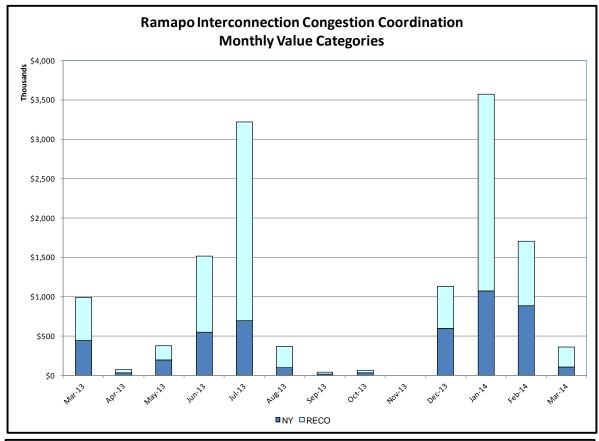


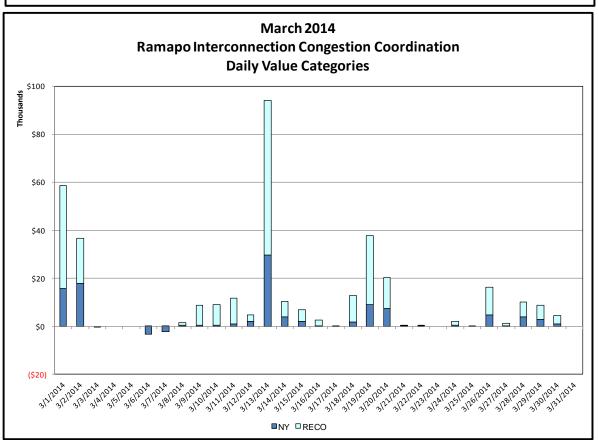






Broader Regional Market Performance Metrics







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.

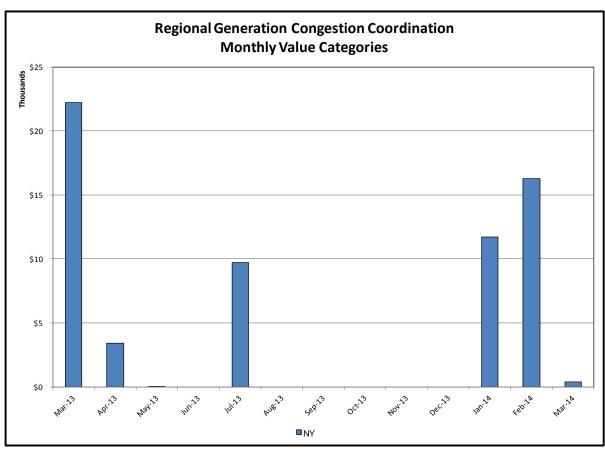
RECO

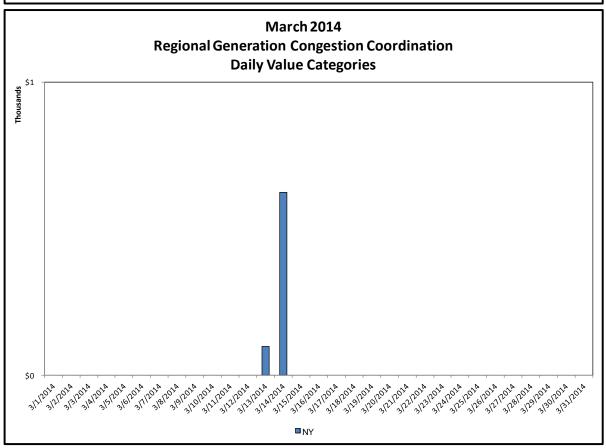
Represents the value of PJM's obligation to deliver 80% of service to RECO load over
Ramapo 5018. This includes (1) the estimated reduction in NYCA congestion due to the PJM
delivery of RECO over Ramapo 5018, plus (2) PJM compensation to NY for NYCA congestion

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

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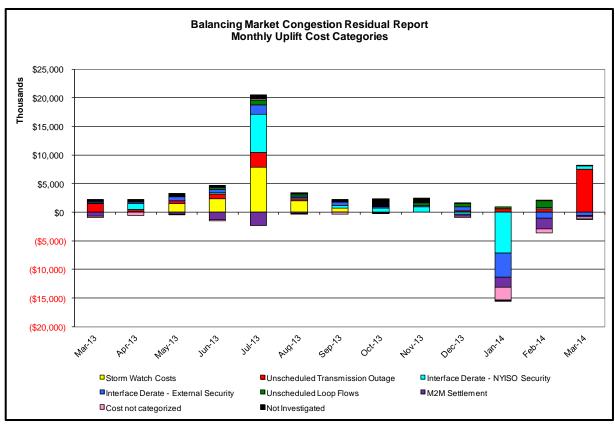
Regional Generation Congestion Coordination

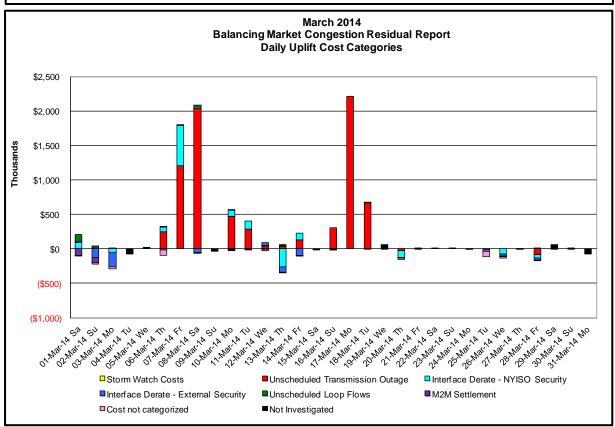
<u>Category</u> NY

 $\underline{\textbf{\textit{Description}}}$ 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



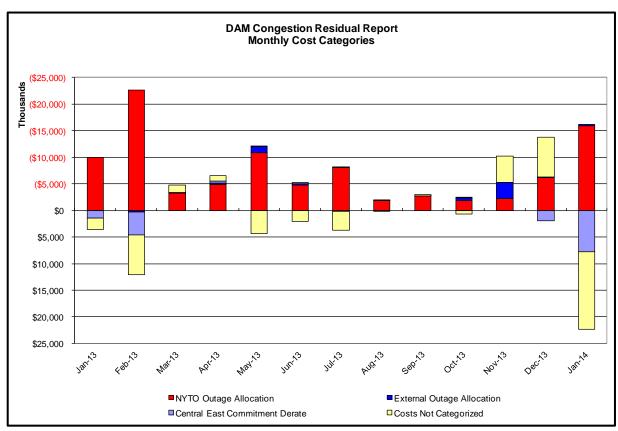


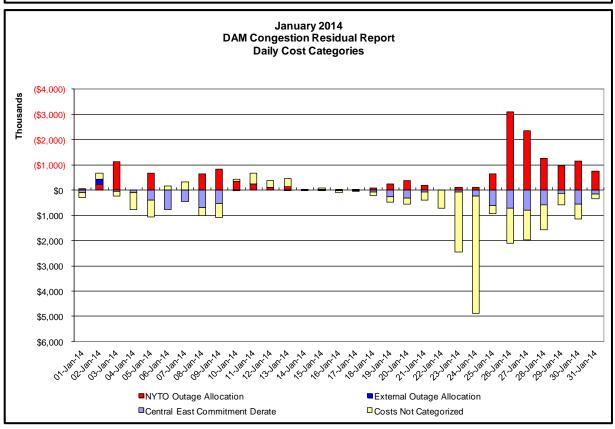


Event	Description	March Dates
	Extended outage Berkshire-Northfield 345kV (#312)	16,17,18
	Extended outage Hudson AveFarragut 138kV (#32078)	12
	Extended outage Moses-Willis 230kV (#MW2)	20
	Extended outage New Scotland-Alps 345kV (#2-AN)	10,11
	Extended outage Northfield-Ludlow 345kV (#354)	6,7,8
	Forced outage Neptune HVDC Converter	28
	Forced outage Willowbrook-Freshkills 138kV (#29212-2) and Willowbrook-Foxhills 138kV (#29212-1)	13,14
	Derate Astoria East-Hellgate East 138kV (#34052)	11
	Derate Central East	1,2,10,11
	Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o SCB:SPBK(RNS2) :Y49 & M29	6,7,11,28
	Derate Dunwoodie-Shore Road 345kV (#Y50)	1
	Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o NEPTUNE HVDC TIE	28
	Derate East 179th Street-HellGate East 138kV (#15053,15054)	10,11,12,13
	Derate Farragut-Hudson Ave. 138kV (#32079)	2,10,11
	Derate Foxhills-Greenwood 138kV (#29231)	13
	Derate Foxhills-Greenwood 138kV (#29231) for I/o SCB:GOETH(7):26&R26&A2253&BK1	13
	Derate Foxhills-Greenwood 138kV (#29231) for I/o SCB:GOWANUS(16):42&26	13
	Derate Freeport-Newbridge 138kV (#461)	28
	Derate Motthaven-Dunwoodie 345kV (#71) for I/o SPRNBRK-W49TH_ST kV (#M51)	14
	NYCA DNI Ramp Limit	2,3,6,7,8,10,12,13,14,20,25,26,28
	Uprate Central East	8,13,14,20,26,28
	Uprate Dunwoodie-Shore Road 345kV (#Y50)	13
	Uprate Motthaven-Dunwoodie 345kV (#71)	13
	Uprate Motthaven-Dunwoodie 345kV (#71) for I/o SPRNBRK-W49TH_ST kV (#M51)	13,14
	HQ_CEDARS-NY Scheduling Limit	3
	HQ_CHAT DNI Ramp Limit	3,12,25
	HQ_CHAT-NY Scheduling Limit	6,25
	IESO_AC DNI Ramp Limit	1,2,3,8,13,14
	NE_AC - NY Scheduling Limit	14,26
	NE_AC DNI Limit	6
	NE_AC DNI Ramp Limit	13,28
	NE_AC-NY Scheduling Limit	2,3
	NE_NNC1385-NY Scheduling Limit	6,8,10,13,16
	PJM_AC DNI Ramp Limit	1,3,13,28
	PJM_AC-NY Scheduling Limit	1,2,3,6
	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Central East	1,2,8,10
	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Pleasant Valley-Leeds	13

Category	Cost Assignment	Events Types	Event Examples
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due t 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	



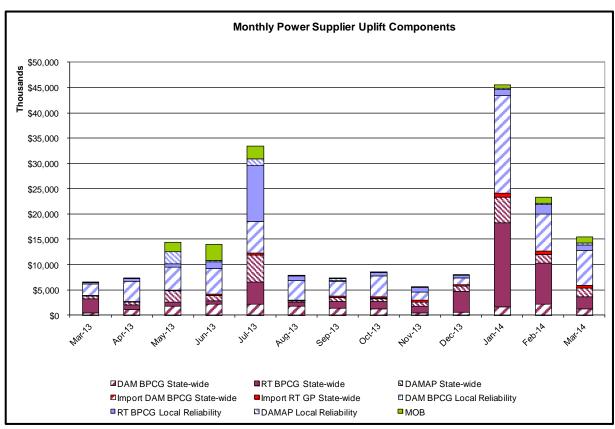


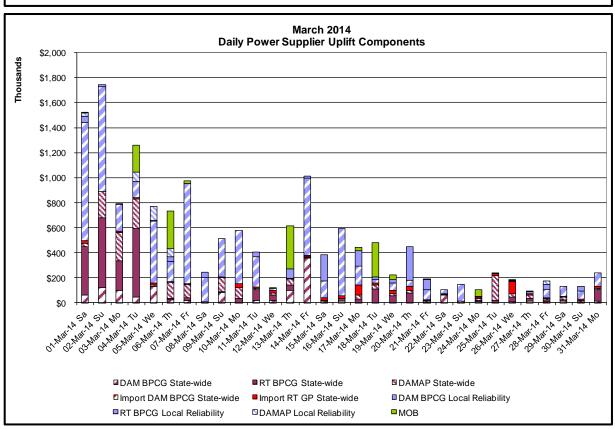




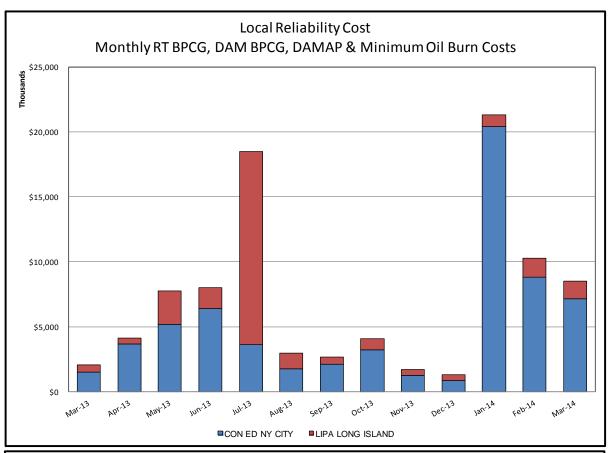
Day	-Ahead Market Co	ngestion Residual Categories	
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u> </u>	Event Examples DAM scheduled outage for equipment modeled inservice for the TCC Auction.
External Outage Allocation	All TO by Monthly Allocation Factor	Direct allocation 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.	

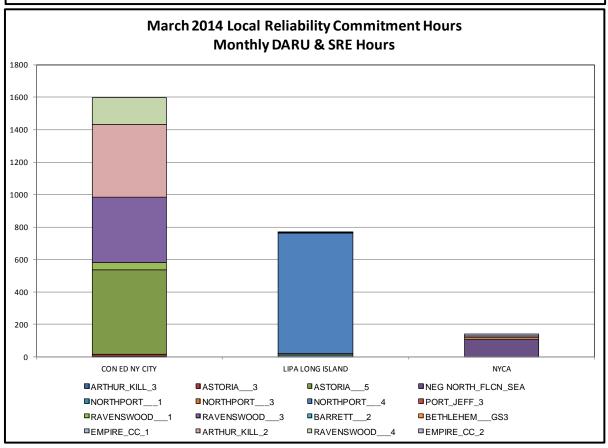




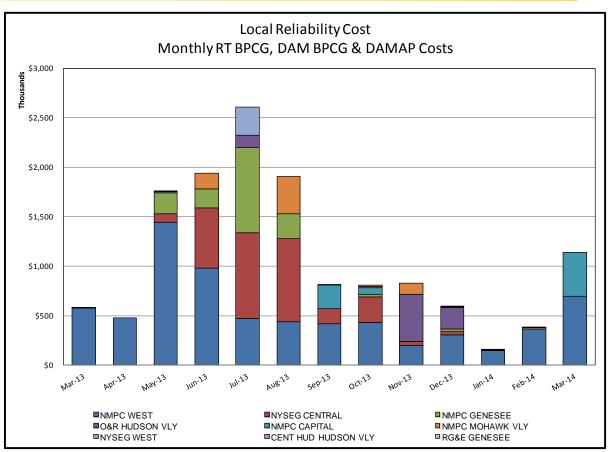


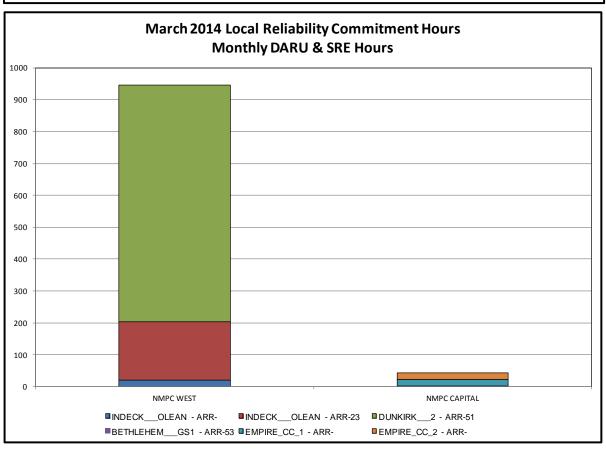




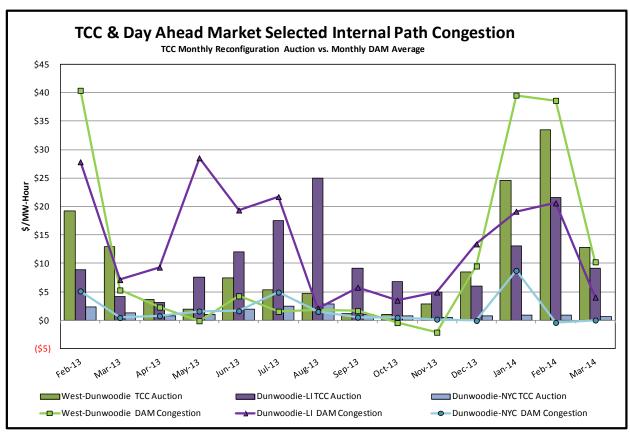


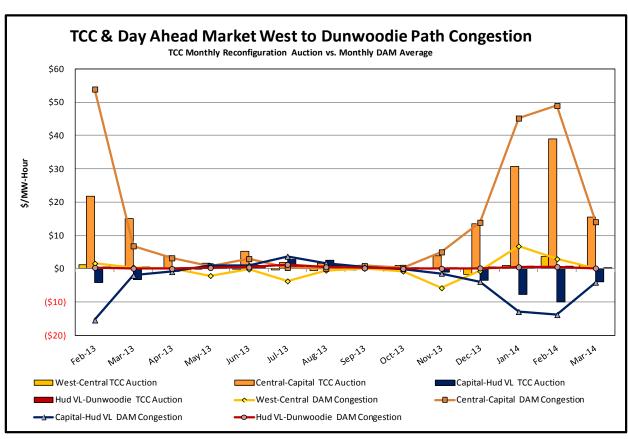




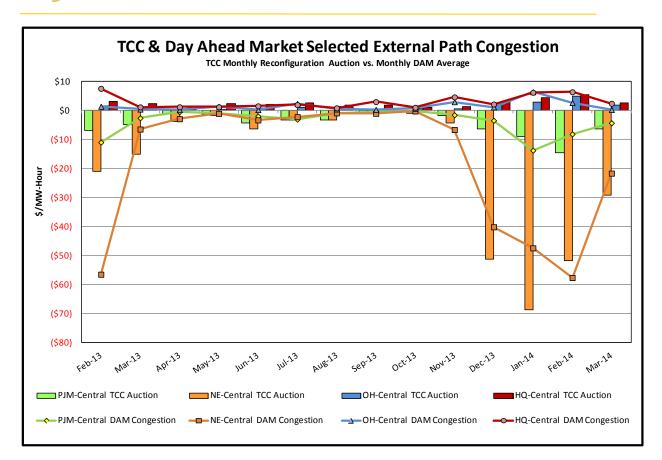




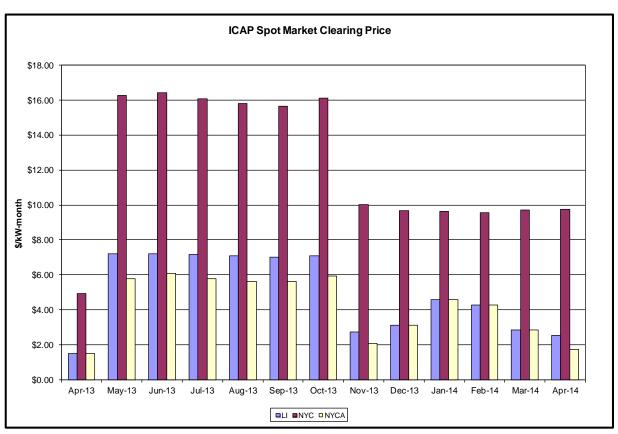


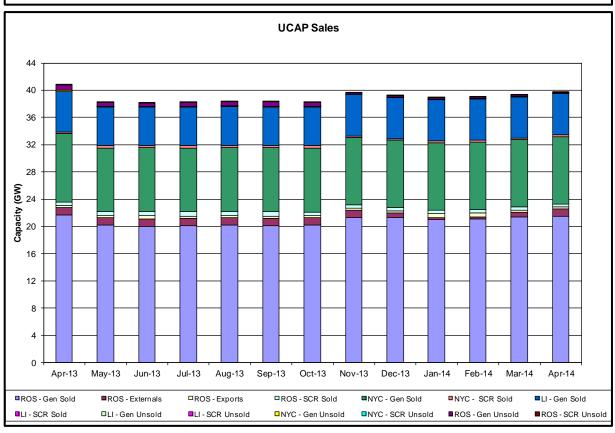










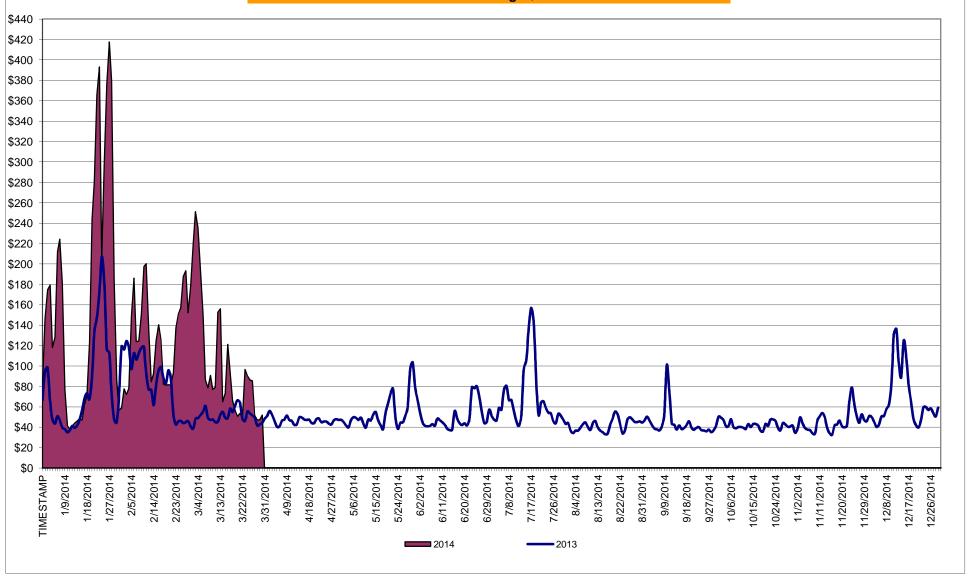


Market Performance Highlights for March 2014

- LBMP for March is \$109.57/MWh; 11% lower than \$123.16/MWh in February 2014 and 124% higher than \$48.94/MWh in March 2013.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to February.
- March 2014 average year-to-date monthly cost of \$142.40/MWh is a 92% increase from \$74.02/MWh in March 2013.
- Average daily sendout is 440 GWh/day in March; lower than 460 GWh/day in February 2014 and higher than 429 GWh/day in March 2013.
- Natural gas and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$7.84/MMBtu, down 33% from \$11.64/MMBtu in February.
 - Jet Kerosene Gulf Coast was \$21.45/MMBtu, down from \$21.96/MMBtu in February.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$21.44/MMBtu, down from \$23.10/MMBtu in February.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is \$0.26/MWh; higher than \$0.25/MWh in February.
 - The Local Reliability Share is \$0.64/MWh, lower than \$0.73 in February.
 - The Statewide Share is (\$0.38)/MWh, higher than (\$0.49)/MWh in February.
 - TSA \$ per NYC MWh is \$0.00/MWh.
- Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than February.

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

2013 Annual Average \$59.13/MWh March 2013 YTD Average \$74.02/MWh March 2014 YTD Average \$142.40/MWh

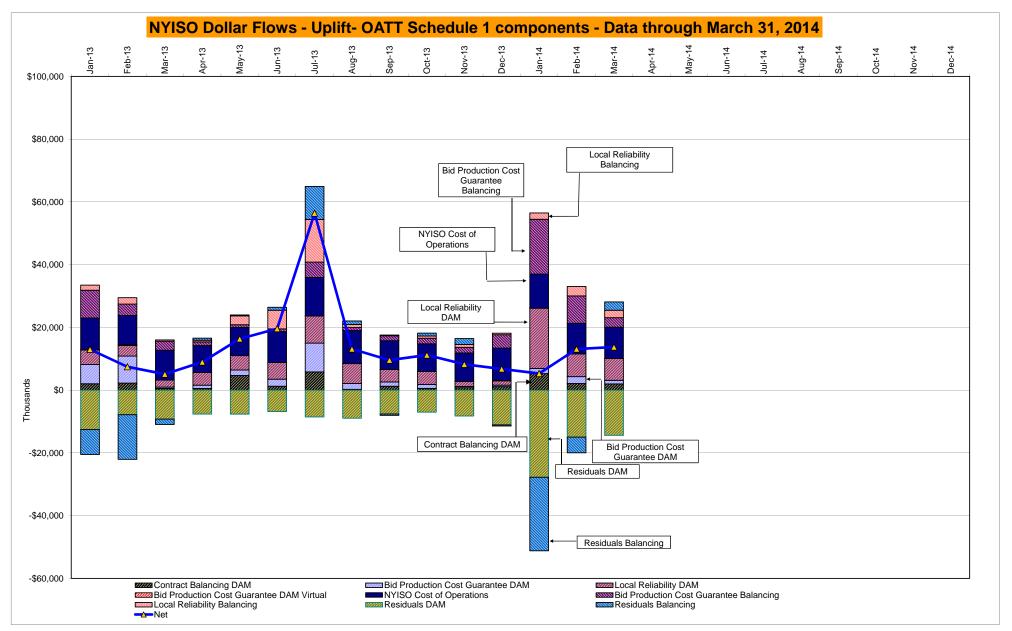


^{*} Excludes ICAP payments.

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

2014	January	February	March	April	May	June	<u>July</u>	August	September	October	November	December
LBMP	<u>January</u> 183.25	123.16	109.57	<u>Aprii</u>	iviay	June	<u>July</u>	August	September	October	November	December
NTAC	0.56	0.64	0.39									
Reserve	0.78	0.49	0.56									
Regulation	0.27	0.21	0.22									
NYISO Cost of Operations	0.69	0.69	0.69									
Uplift	(0.36)	0.25	0.26									
Uplift: Local Reliability Share	1.38	0.73	0.64									
Uplift: Statewide Share	(1.73)	(0.49)	(0.38)									
Voltage Support and Black Start _	0.36	0.36	0.36									
Avg Monthly Cost	185.55	125.81	112.06									
Avg YTD Cost	185.55	157.40	142.40									
TSA \$ per NYC MWh	0.00	0.00	0.00									
2013	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	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	66.39
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)	0.03	0.41	0.49	2.06	0.03	(0.04)	0.19	(0.07)	(0.25)
Uplift: Local Reliability Share	0.44	0.13)	0.19	0.02	0.58	0.43	1.27	0.03	0.31	0.13	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	0.73	0.36	0.36	0.36	0.36	0.36
• ··· <u>-</u>										_		
Avg Monthly Cost	82.34	88.06	50.96	46.91	55.10	53.05	72.87	42.62	46.32	42.54	45.88	68.34
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
	+0.73		31.13	30.23	JU.JZ	JU.Z1	00.14	40.40	71.17	74.44	55.20	40.74
Avg YTD Cost	46.75	41.12	37.96	36.09	36.18	38.89	44.26	44.91	44.51	44.33	45.14	45.28
TSA \$ per NYC MWh * Excludes ICAP payments	0.00	0.00	0.00	0.00	1.52	0.45	0.85	0.46	0.59	0.00 Data re	0.00	0.00 u Nov 2013.

* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 4/4/2014 9:53 AM



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

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

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

NYISO Markets Transactions

<u>2014</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	16,034,264	14,409,515	14,633,570									
DAM LSE Internal LBMP Energy Sales	52%	50%	53%									
DAM External TC LBMP Energy Sales	5%	7%	6%									
DAM Bilateral - Internal Bilaterals	36%	36%	35%									
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%									
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	1%									
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%									
Balancing Energy Market MWh	-240,397	-285,718	-113,985									
Balancing Energy LSE Internal LBMP Energy Sales	-237%	-208%	-298%									
Balancing Energy External TC LBMP Energy Sales	109%	80%	99%									
Balancing Energy Bilateral - Internal Bilaterals	21%	28%	70%									
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	13%									
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	11%	6%	26%									
Balancing Energy Bilateral - Wheel Through Bilaterals	-5%	-6%	-11%									
Transactions Summary												
LBMP	56%	56%	57%									
Internal Bilaterals	37%	37%	36%									
Import Bilaterals	5%	5%	5%									
Export Bilaterals	2%	1%	2%									
Wheels Through	1%	1%	1%									
Market Share of Total Load												
Day Ahead Market	101.5%	102.0%	100.8%									
Balancing Energy +	-1.5%	-2.0%	-0.8%									
Total MWH	15,793,868		14,519,586									
Average Daily Energy Sendout/Month GWh	475	460	440									
- Andreage Daily Energy Condournment Civil												
2013	January	February	March	April	Mav	June	Julv	August	September	October	November	December
2013 Day Ahead Market MWh		February		<u>April</u>	May	<u>June</u>	<u>July</u> 17 974 314	August	September	October	November	
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% 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%	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% 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% 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% -528,397
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% -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% -528,397 -131%
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% 1% -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% -759,051 -120% 11%	13,411,499 51% 0% 41% 5% 1% 1% -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% -528,397 -131% 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% -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% 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% -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% 1% -528,397 -131% 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%	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% 1% -579,298 -134% 23% 4% 0%	15,406,816 52% 6% 36% 4% 1% 1% -528,397 -131% 16% 13% 0%
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Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - 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 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% 1525,278 -123% 21% 3% 0% -6% 59% 39% 0% 2%	13,451,310 56% 1% 37% 3% 1% 1% -501,948 -133% 35% 0% 4% -11% 55% 39% 4% 2%	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% 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% 0% 49% 43% 6% 2%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 1% 41% 44% 2%	15,406,816 52% 6% 36% 4% 1% 1% -528,397 -131% 16% 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 - Internal 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 Import Bilaterals Export Bilaterals Export 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% 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% 44% -11%	14,872,971 57% 1% 36% 4% 1% -669,315 -115% 16% 4% 2% -9% 56% 38% 4%	17,974,314 59% 1% 33% 5% 1% 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%	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% -528,397 -131% 16% 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 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% 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% 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% 1% 41% 44% 2% 1%	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% 44% 2% 1%	15,406,816 52% 6% 36% 4% 1% 1% -528,397 -131% 16% 13% 0% -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 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% 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% 101.7%	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% 11% 41% 44% 2% 11% 105.7%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 5% 0% 3% 0% 49% 43% 6% 2% 1% 105.5%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 11% 52% 41% 4% 2% 11%	15,406,816 52% 6% 36% 4% 1% 1% -528,397 -131% 16% 13% 0% 5% -4% 56% 38% 4% 2% 1% 103.6%
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%	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% 11% 4% 3% -7% 59% 34% 5% 1% 1% 101.7% -1.7%	16,090,437 57% 0% 36% 5% 1% -915,232 -113% 9% 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% 44% 2% 1% 105.7% -5.7%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 5% 0% 3% 0% 49% 43% 6% 2% 1% 105.5% -5.5%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 4% 0% 7% 11% 52% 41% 44% 2% 1%	15,406,816 52% 6% 36% 4% 1% 1% -528,397 -131% 16% 13% 0% 5% -4% 56% 38% 4% 2% 1% 103.6% -3.6%
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 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% 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% 101.7%	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% 11% 41% 44% 2% 11% 105.7%	13,411,499 51% 0% 41% 5% 1% -694,291 -122% 13% 5% 0% 3% 0% 49% 43% 6% 2% 1% 105.5%	13,692,854 52% 3% 40% 4% 2% 1% -579,298 -134% 23% 4% 0% 7% 11% 52% 41% 4% 2% 11%	15,406,816 52% 6% 36% 4% 1% 1% -528,397 -131% 16% 13% 0% 5% -4% 56% 38% 4% 2% 1% 103.6%

⁺ 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.

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

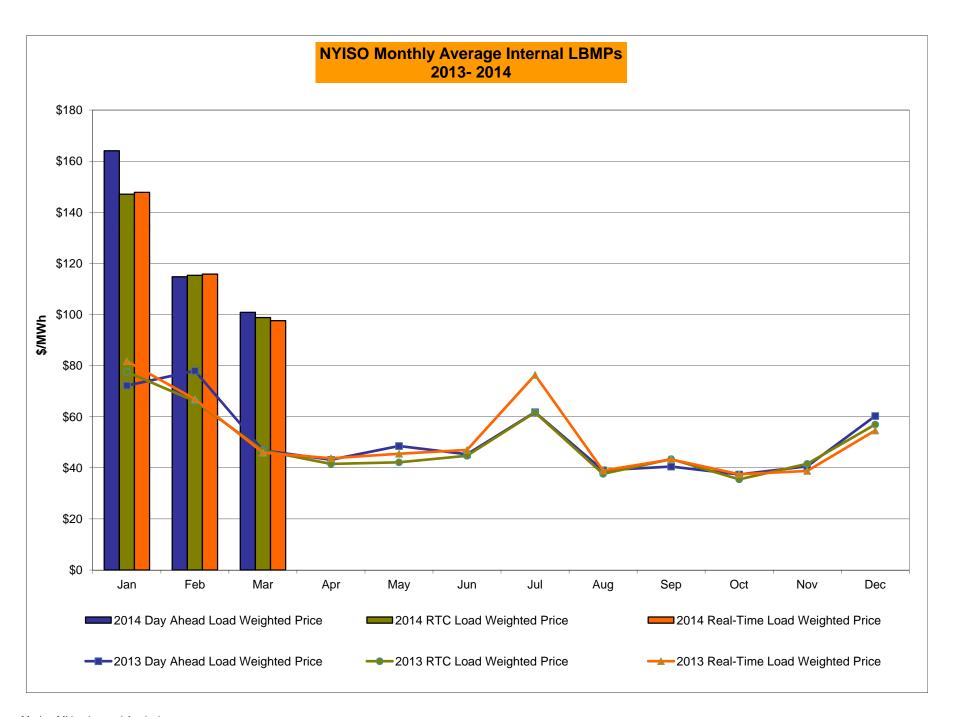
NYISO Markets 2014 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August Septem	<u> October November Decemb</u>	<u>oer</u>
DAY AHEAD LBMP		-					-			
Price *	\$155.11	\$110.69	\$97.07							
Standard Deviation	\$121.52	\$50.86	\$59.89							
Load Weighted Price **	\$164.06	\$114.77	\$100.81							
RTC LBMP										
Price *	\$138.41	\$110.71	\$94.71							
Standard Deviation	\$125.42	\$72.22	\$97.72							
Load Weighted Price **	\$147.06	\$115.31	\$98.80							
REAL TIME LBMP										
Price *	\$137.90	\$111.51	\$93.37							
Standard Deviation	\$122.32	\$70.35	\$89.05							
Load Weighted Price **	\$147.77	\$115.80	\$97.58							
Average Daily Energy Sendout/Month GWh	475	460	440							

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	<u>September</u>	October	November I	<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

^{*} Average zonal load weighted prices.
** Average zonal load weighted prices, load weighted in each hour.

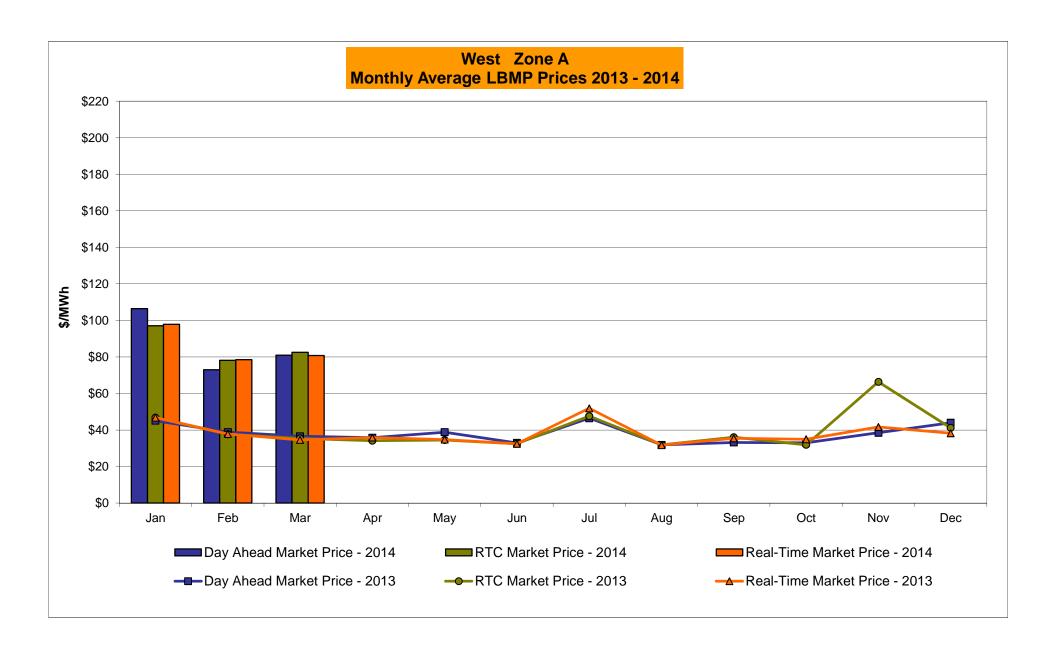


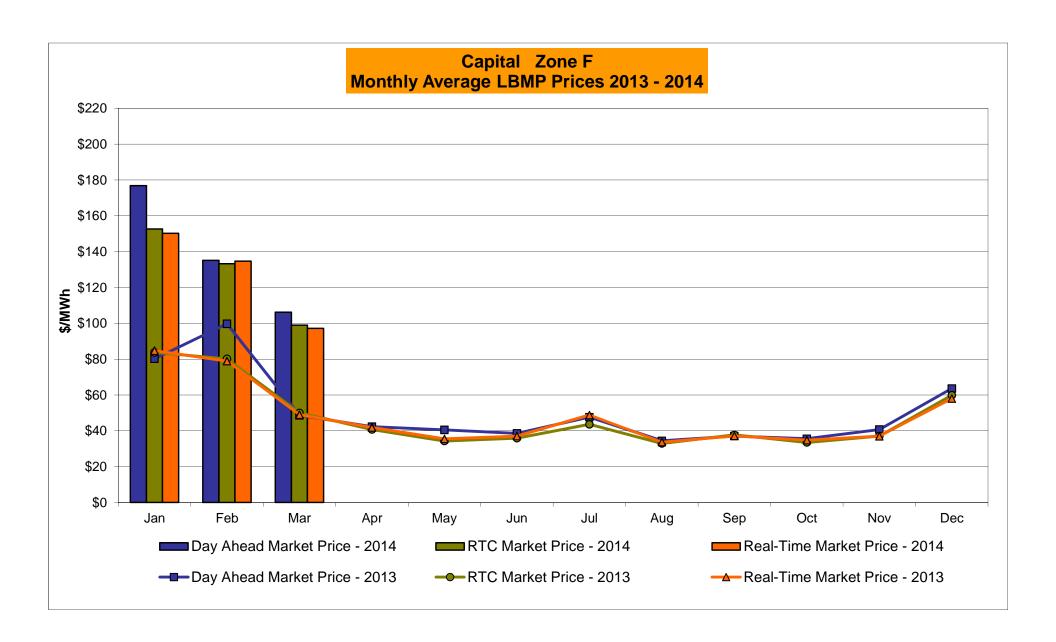
March 2014 Zonal LBMP Statistics for NYISO (\$/MWh)

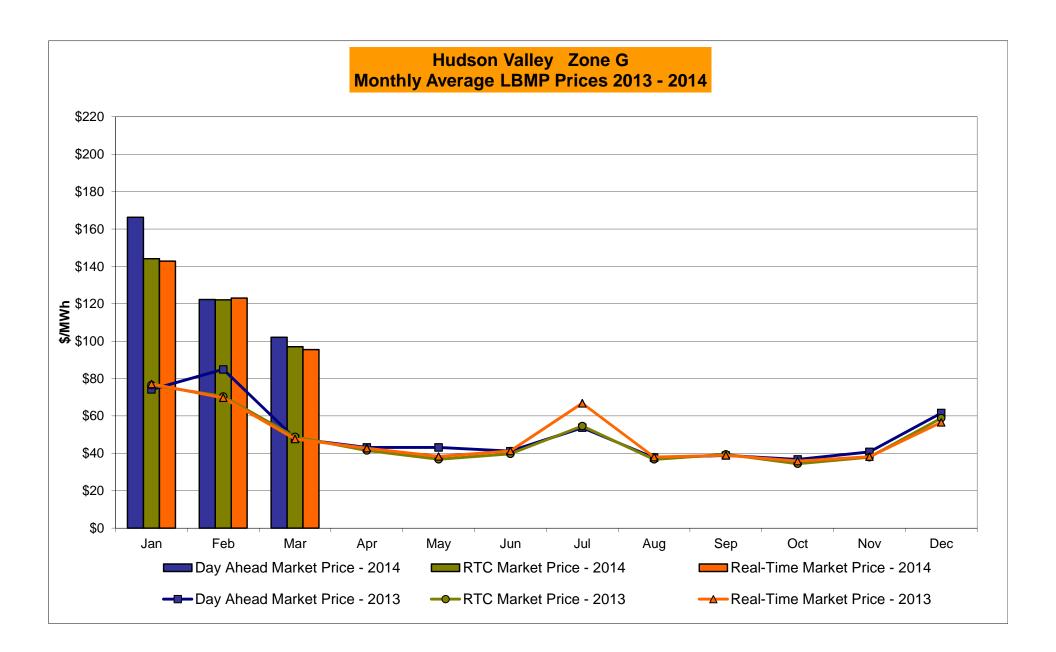
	WEST Zone A	GENESEE Zone B	NORTH Zone D	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE Zone I	NEW YORK CITY Zone J	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	80.97	82.58	82.86	85.79	89.37	106.16	102.07	102.67	102.30	102.52	108.43
Standard Deviation	56.28	57.97	62.36	59.64	62.67	64.37	61.94	62.09	61.69	60.88	63.08
RTC LBMP											
Unweighted Price *	82.50	84.62	86.00	87.03	90.75	98.98	97.02	97.34	96.95	99.16	103.08
Standard Deviation	93.98	96.32	100.44	97.95	103.00	103.32	100.89	100.77	99.96	98.28	97.91
REAL TIME LBMP											
Unweighted Price *	80.74	83.43	85.08	85.86	89.53	97.18	95.46	95.77	95.40	98.07	102.79
Standard Deviation	83.97	87.36	91.33	88.72	93.24	93.38	91.54	91.44	90.75	91.42	90.59
		HYDRO	HYDRO			CROSS					
	ONTARIO	HYDRO QUEBEC	HYDRO QUEBEC		NEW		NORTHPORT-				
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND		NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	-	QUEBEC	QUEBEC	РЈМ		SOUND		NEPTUNE Controllable	LINDEN VFT	HUDSON Controllable	Dennison Controllable
	-	QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND CABLE	NORWALK	_			
DAY AHEAD LBMP	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable	Controllable	Controllable
DAY AHEAD LBMP Unweighted Price *	Zone O 79.55	QUEBEC (Wheel) Zone M 83.00	QUEBEC (Import/Export) Zone M 82.98	Zone P 91.38	ENGLAND Zone N 113.67	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line 106.30	Controllable Line 80.56	Controllable Line 103.13	Controllable Line 82.51
	IESO Zone O	QUEBEC (Wheel)	QUEBEC (Import/Export)	Zone P	ENGLAND Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	Zone O 79.55	QUEBEC (Wheel) Zone M 83.00	QUEBEC (Import/Export) Zone M 82.98	Zone P 91.38	ENGLAND Zone N 113.67	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line 106.30	Controllable Line 80.56	Controllable Line 103.13	Controllable Line 82.51
Unweighted Price * Standard Deviation	Zone O 79.55	QUEBEC (Wheel) Zone M 83.00	QUEBEC (Import/Export) Zone M 82.98	Zone P 91.38	ENGLAND Zone N 113.67	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line 106.30	Controllable Line 80.56	Controllable Line 103.13	Controllable Line 82.51
Unweighted Price * Standard Deviation RTC LBMP	Zone O 79.55 55.39	QUEBEC (Wheel) Zone M 83.00 62.72	QUEBEC (Import/Export) Zone M 82.98 62.70	Zone P 91.38 57.11	Zone N 113.67 63.51	SOUND CABLE Controllable Line 108.20 62.86	NORWALK Controllable Line 108.46 61.38	Controllable Line 106.30 61.95	Controllable Line 80.56 45.26	Controllable Line 103.13 62.25	Controllable Line 82.51 64.41
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price *	Zone O 79.55 55.39	QUEBEC (Wheel) Zone M 83.00 62.72 77.36	QUEBEC (Import/Export) Zone M 82.98 62.70 77.07	Zone P 91.38 57.11 81.15	Zone N 113.67 63.51	SOUND CABLE Controllable Line 108.20 62.86	NORWALK Controllable Line 108.46 61.38	Controllable Line 106.30 61.95	80.56 45.26	Controllable Line 103.13 62.25	82.51 64.41
Unweighted Price * Standard Deviation RTC LBMP Unweighted Price * Standard Deviation	Zone O 79.55 55.39	QUEBEC (Wheel) Zone M 83.00 62.72 77.36	QUEBEC (Import/Export) Zone M 82.98 62.70 77.07	Zone P 91.38 57.11 81.15	Zone N 113.67 63.51	SOUND CABLE Controllable Line 108.20 62.86	NORWALK Controllable Line 108.46 61.38	Controllable Line 106.30 61.95	80.56 45.26	Controllable Line 103.13 62.25	82.51 64.41

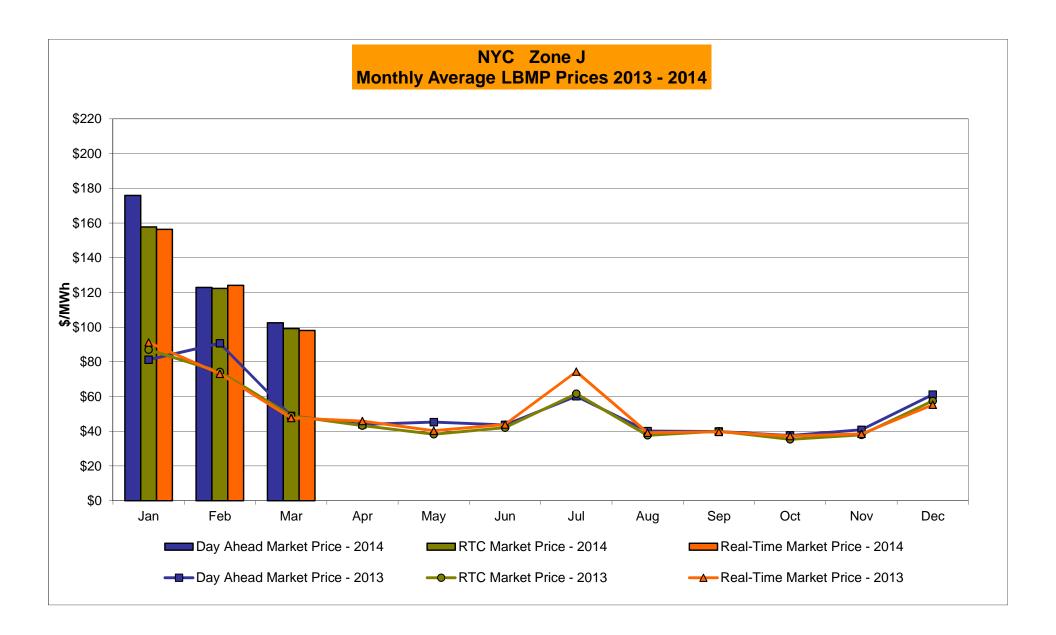
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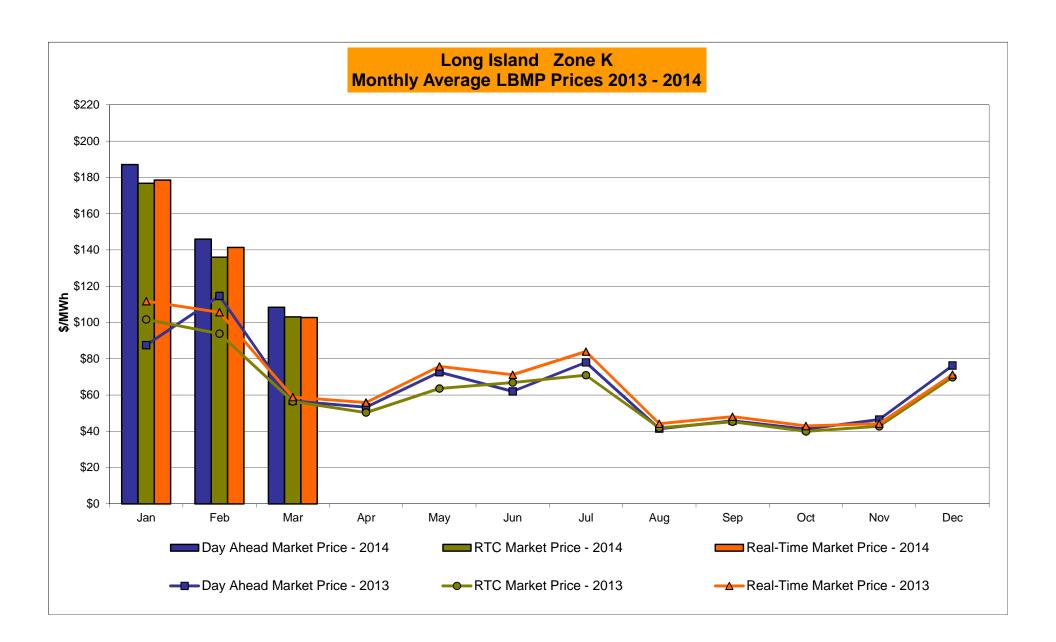
^{*} Straight LBMP averages

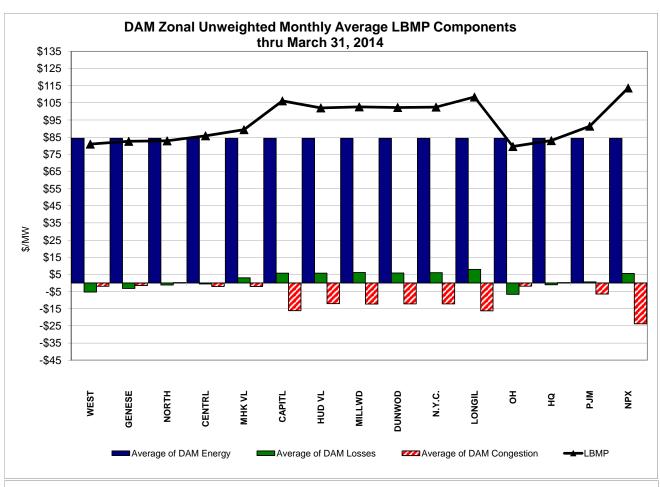


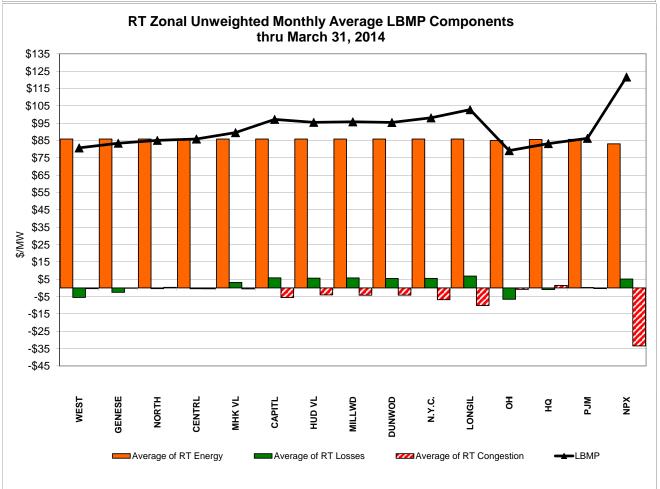




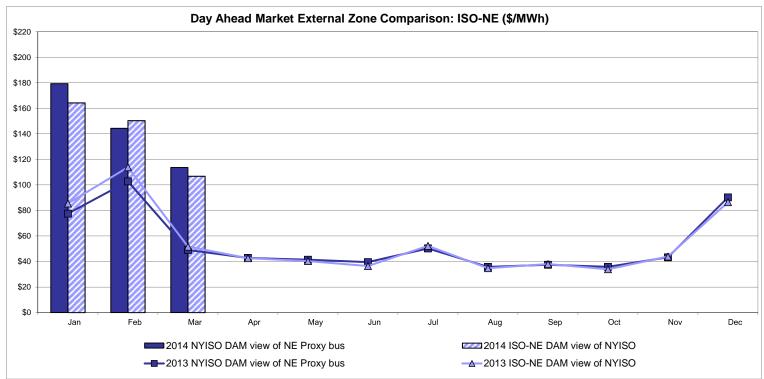


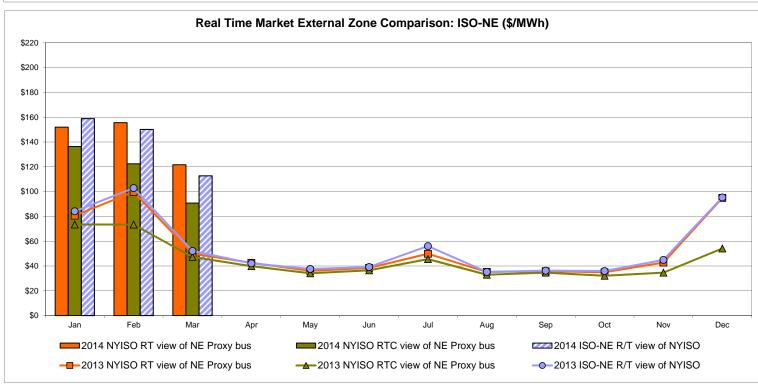




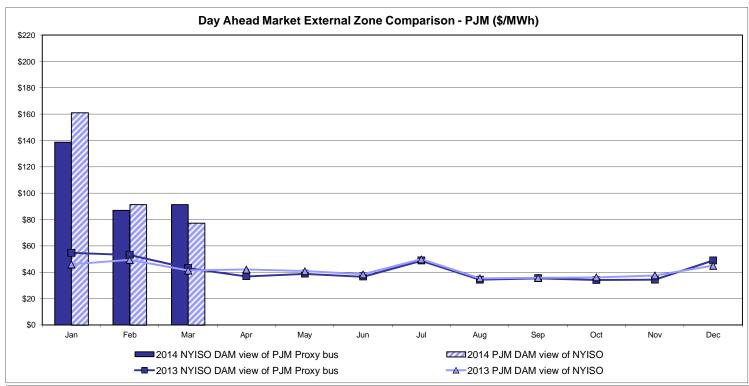


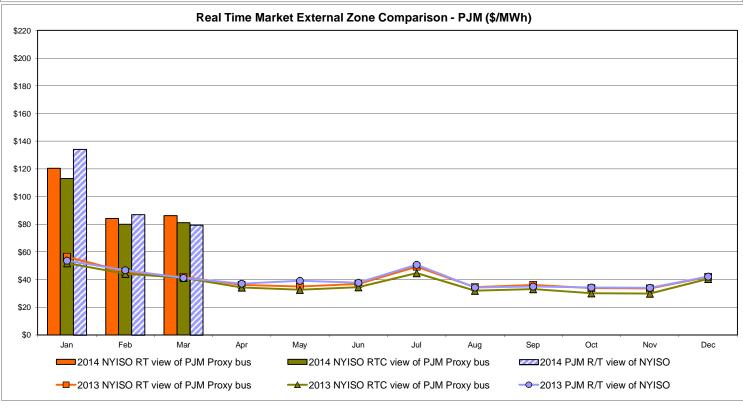
External Comparison ISO-New England



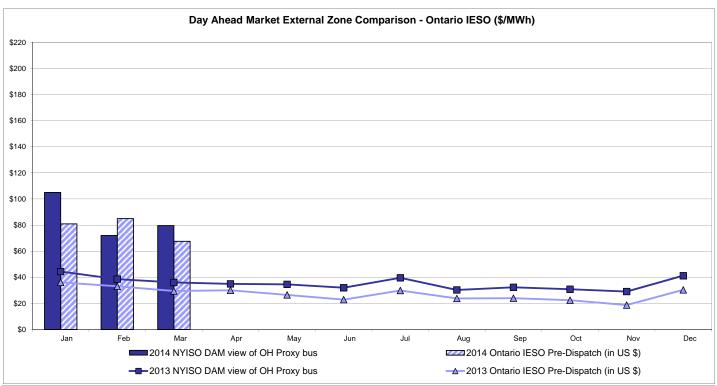


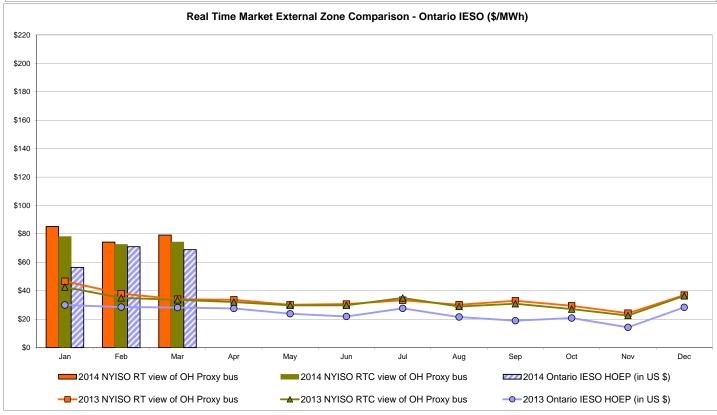
External Comparison PJM





External Comparison Ontario IESO

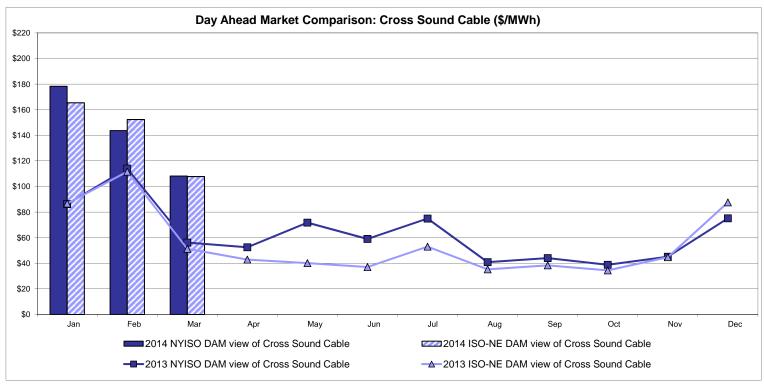


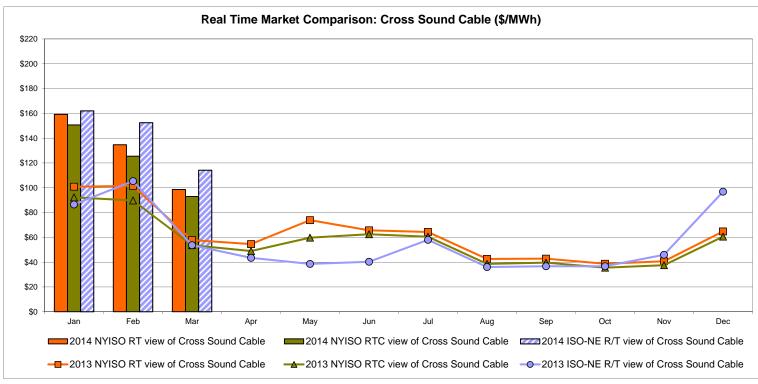


Notes: Exchange factor used for March 2014 was 0.90038 to US \$

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

External Controllable Line: Cross Sound Cable (New England)





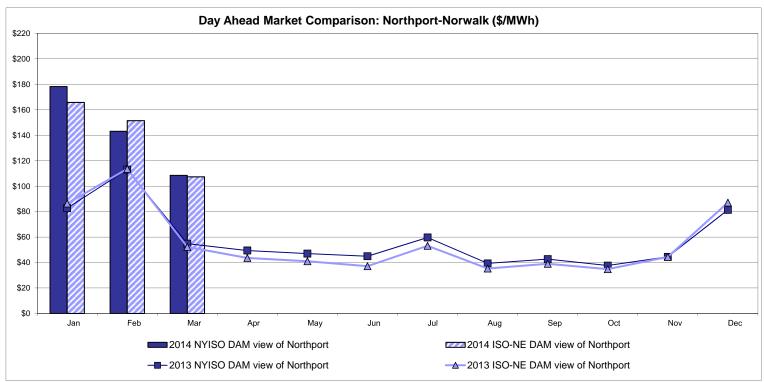
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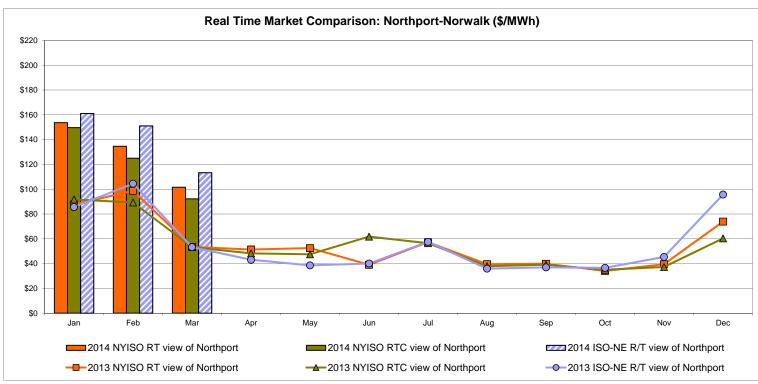
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)





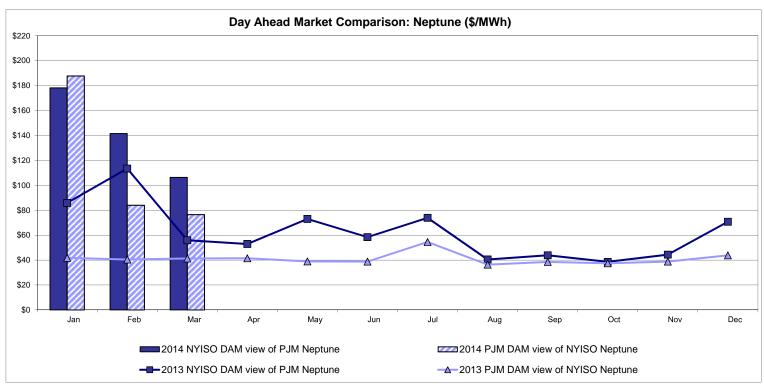
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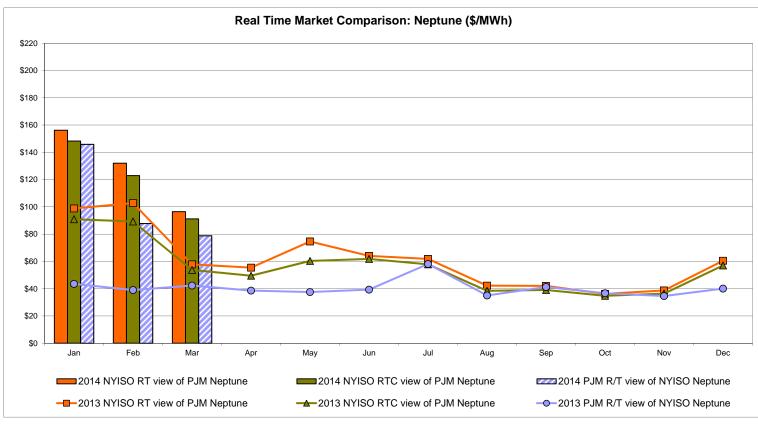
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

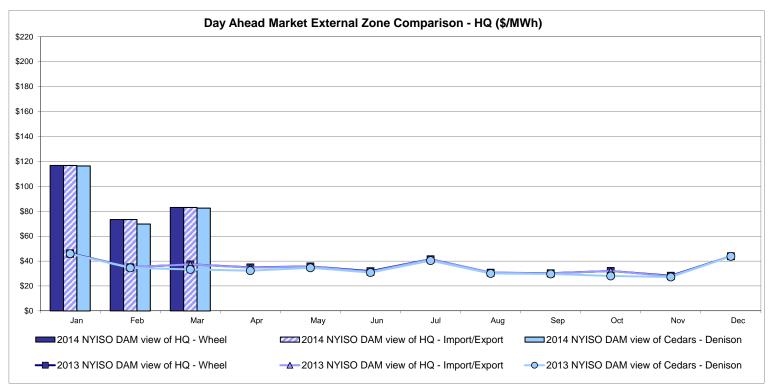
The DAM and R/T prices at the 1385 interface are used for NYISO.

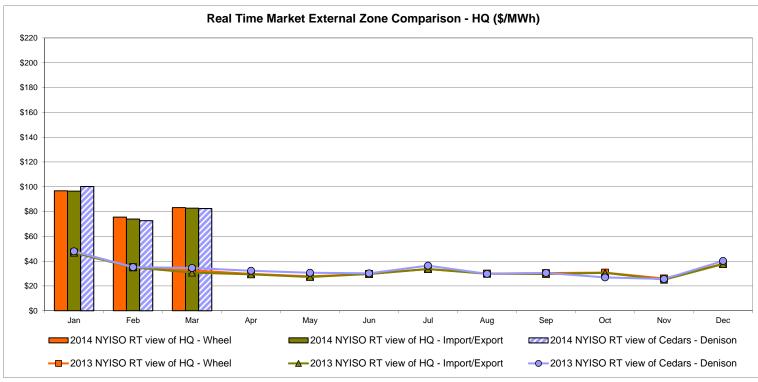
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

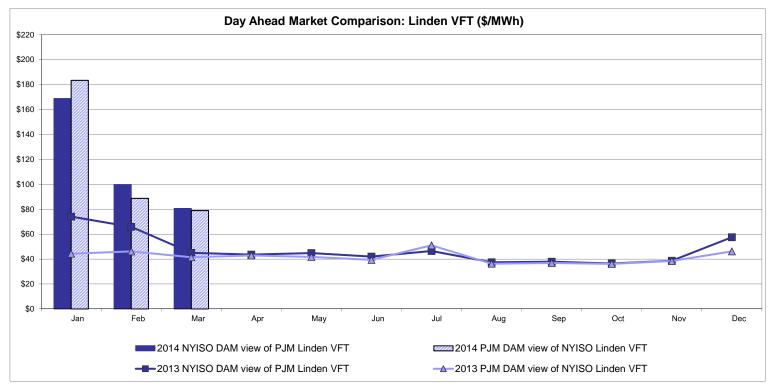


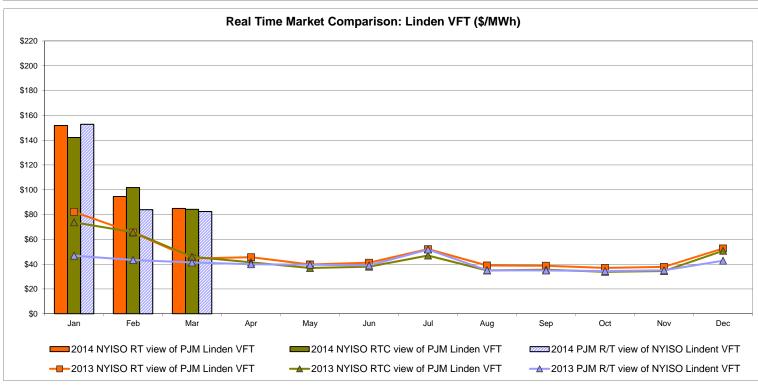


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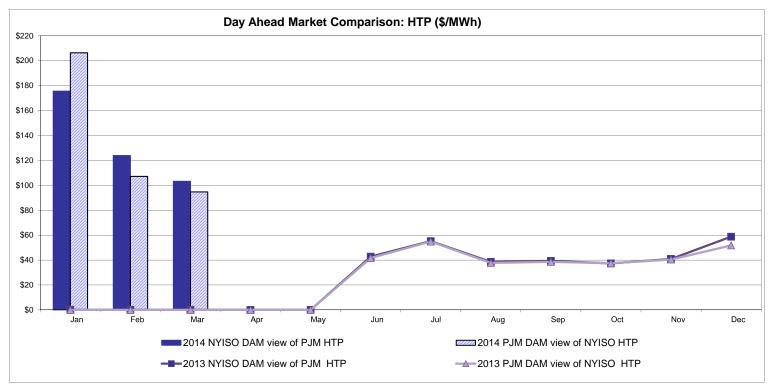
Hydro-Quebec Prices are unavailable.

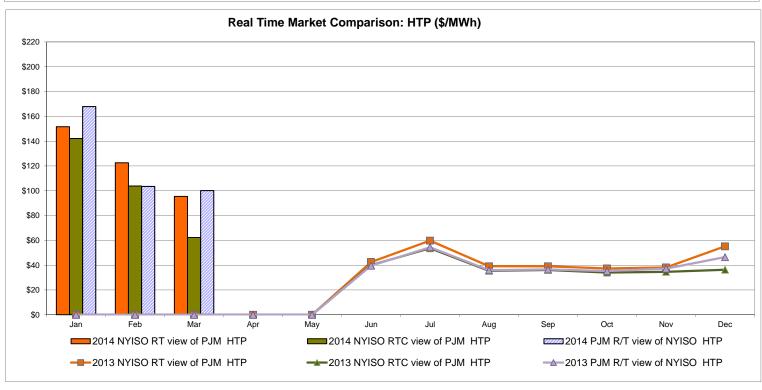
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)



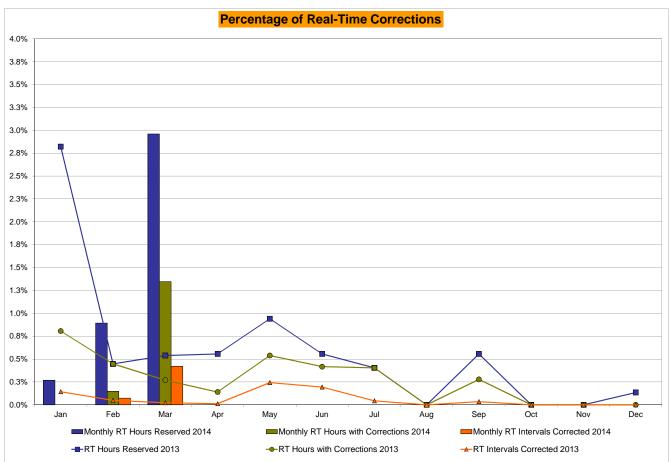


NYISO Real Time Price Correction Statistics

<u>2014</u>		<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									
Number of hours with corrections Number of hours	in the month in the month	744	672	743									
% of hours with corrections	in the month	0.00%	0.15%	1.35%									
% of flours with corrections	in the month	0.00%	0.15%	1.33%									
% of hours with corrections	year-to-date	0.00%	0.07%	0.51%									
Interval Corrections													
Number of intervals corrected	in the month	0	6	38									
Number of intervals	in the month	9,232	8,205	9,023									
% of intervals corrected	in the month	0.00%	0.07%	0.42%									
% of intervals corrected	year-to-date	0.00%	0.03%	0.17%									
Hours Reserved													
Number of hours reserved	in the month	2	6	22									
Number of hours	in the month	744	672	743									
% of hours reserved	in the month	0.27%	0.89%	2.96%									
% of hours reserved	year-to-date	0.27%	0.56%	1.39%									
Days to Correction *	•												
Avg. number of days to correction	in the month	0.00	3.00	1.00									
Avg. number of days to correction	year-to-date	0.00	3.00	1.50									
Days Without Corrections													
Days without corrections	in the month	31	27	28									
Days without corrections	year-to-date	31	58	86									
2013		January	February	March	Anril	May	June	July	August	September	October	November	December
2013 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
Hour Corrections	in the month										· ·		
Hour Corrections Number of hours with corrections	in the month	6	3	2	1	4	3	3	0	2	0	0	0
Hour Corrections	in the month in the month in the month										· ·		
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 % of hours with corrections Interval Corrections	in the month in the month year-to-date	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	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	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%	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%	0 721 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	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%	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%	0 721 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% 3 744	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 % 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% 3 744	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%
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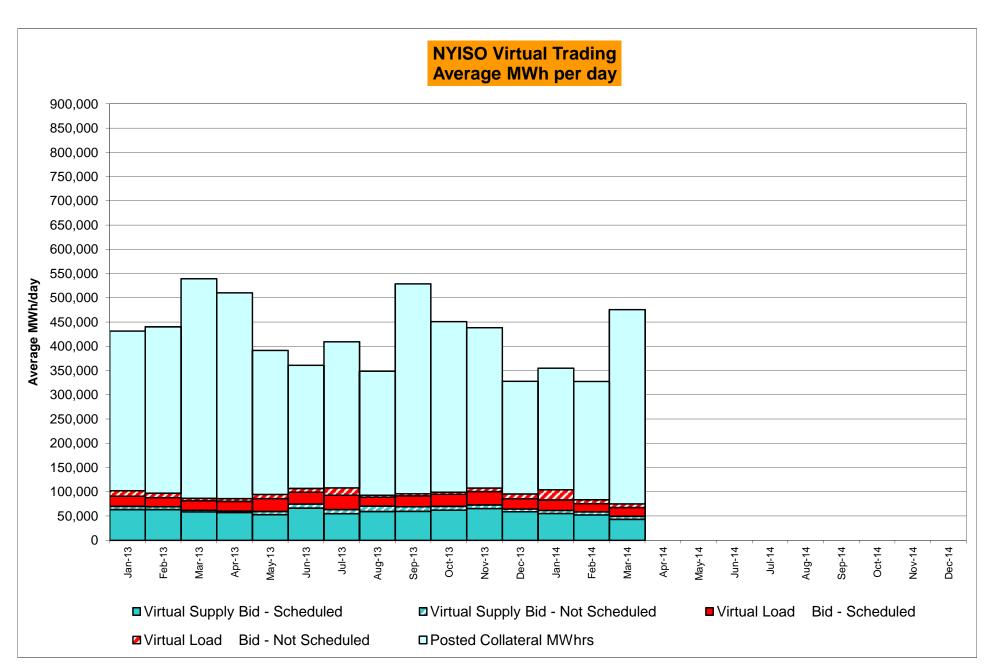
^{*} Calendar days from reservation date.

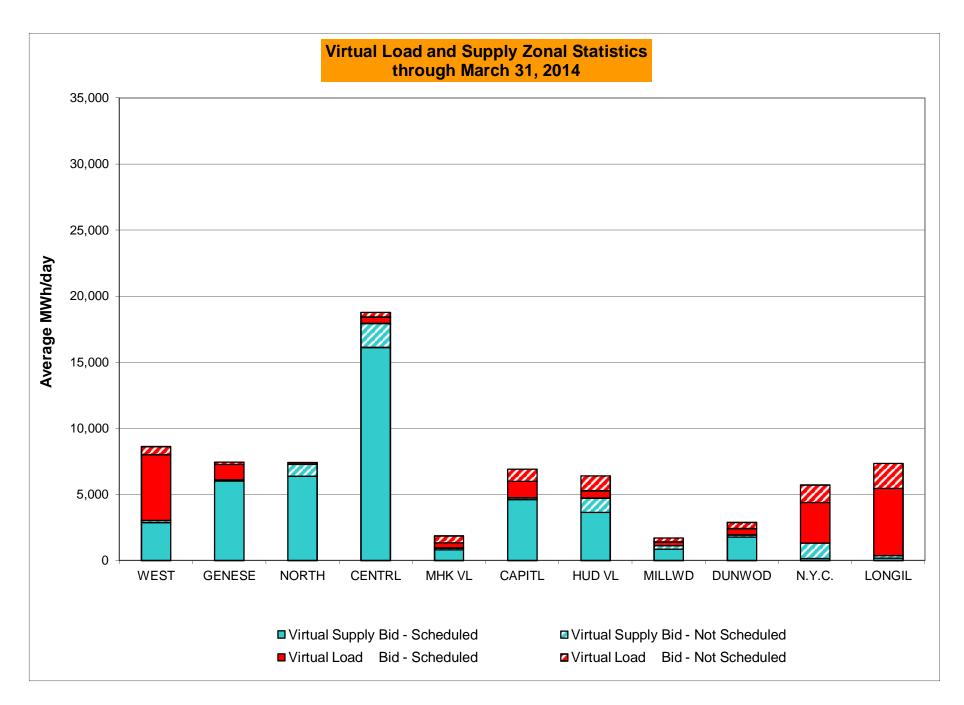
Market Mitigation and Analysis Prepared: 4/4/2014 8:28 AM



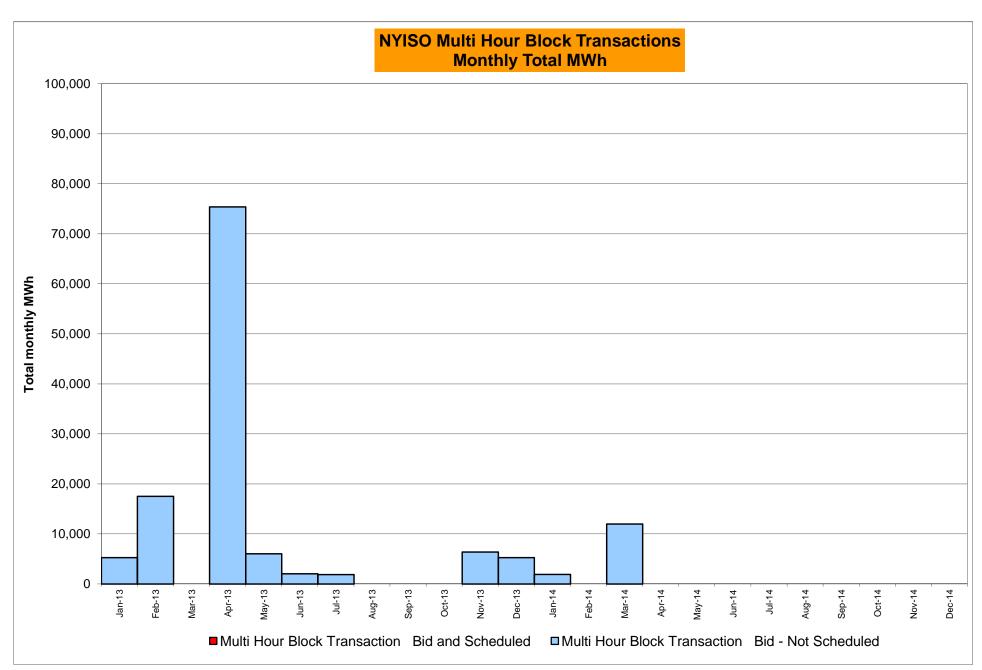


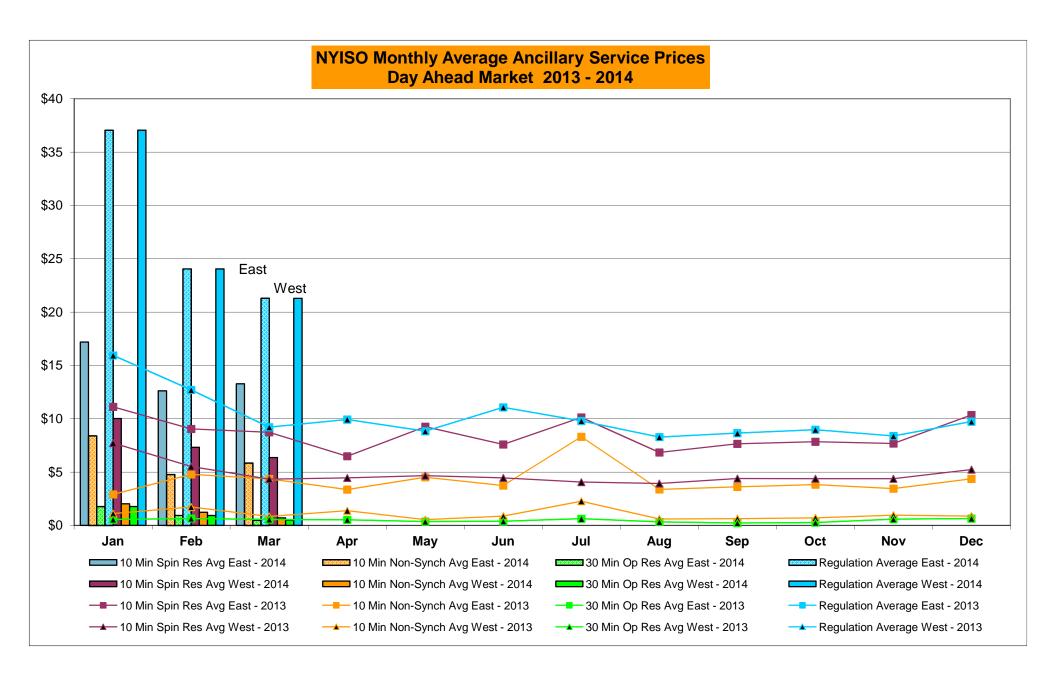
^{*} Calendar days from reservation date.

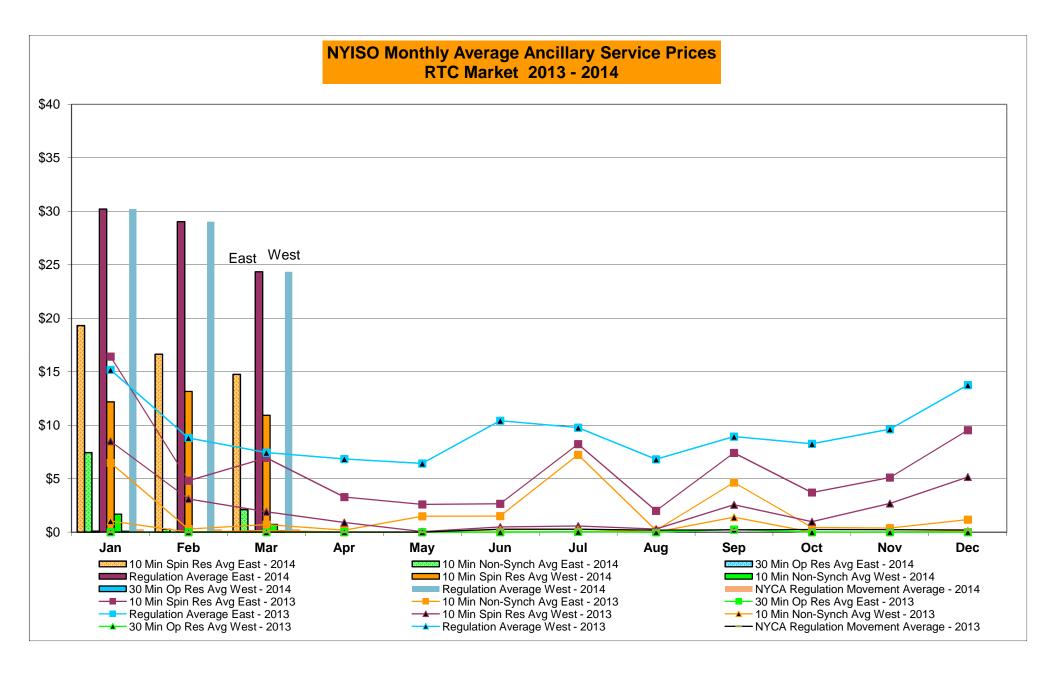


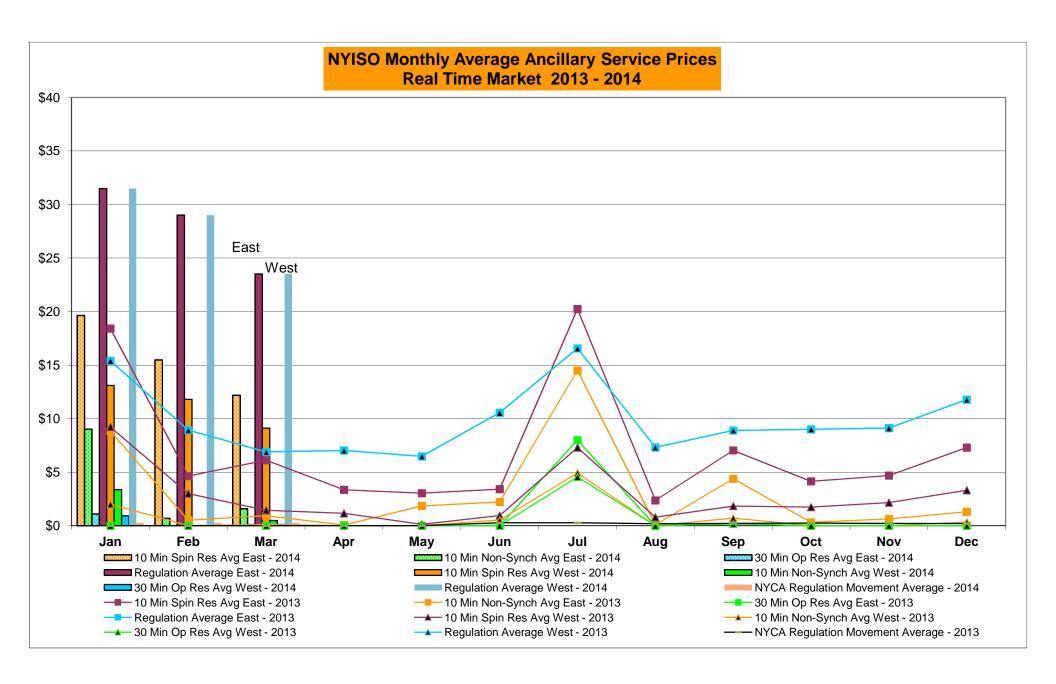


					Virtual L	oad and	Supp	ly Zonal	Statistic	s (Avera	ge MWh/da	y) - 2014	1				
		Virtual L	oad Bid	Virtual S	upply Bid			Virtual L	oad Bid	Virtual Su	ıpply Bid			Virtual I	Load Bid	Virtual Su	upply Bid
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not
WEST	Jan-14	6,213	5,063	2,777	155	MHK VL	Jan-14	429	587	1316	260	DUNWOD	Jan-14			2182	
	Feb-14	5,077	805	2,814	422		Feb-14	340	204		90		Feb-14			846	
	Mar-14	4,982	601	2,874	159		Mar-14	415	527	826	106		Mar-14		473	1794	
	Apr-14						Apr-14						Apr-14				
	May-14						May-14						May-14				
	Jun-14						Jun-14						Jun-14				
	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				
GENESE	Jan-14	434	279	5,230	425	CAPITL	Jan-14	1439	1278	3985	379	N.Y.C.	Jan-14	2627	3843	666	1083
	Feb-14	473	107	5,250	487		Feb-14	1116	871	4100	127		Feb-14	2470		521	
	Mar-14	1,164	176	6,014	88		Mar-14	1237	939	4623	129		Mar-14			152	
	Apr-14	,		,			Apr-14						Apr-14				
	May-14						May-14						May-14				
	Jun-14						Jun-14						Jun-14				
	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	1612	1554	4091	466	LONGIL	Jan-14	7605	6704	59	375
	Feb-14	110	4	5,732	1,308		Feb-14	634	1325	3963	792		Feb-14	5365	2494	145	230
	Mar-14	121	10	6,390	895		Mar-14	552	1130	3644	1081		Mar-14		1885	166	223
	Apr-14						Apr-14						Apr-14				
	May-14						May-14						May-14				
	Jun-14						Jun-14						Jun-14				
	Jul-14						Jul-14						Jul-14				
	Aug-14						Aug-14						Aug-14				
	Sep-14 Oct-14					_	Sep-14 Oct-14					\dashv	Sep-14 Oct-14				
	Nov-14						Nov-14						Nov-14				
	Dec-14						Dec-14						Dec-14				
	200						200						200				
CENTRL	Jan-14	675	392	27,758	624	MILLWD	Jan-14	235	401	848	470	NYISO	Jan-14	21670	20900	55491	
	Feb-14	419	155	27,395	1,484		Feb-14	324	183	1015	357		Feb-14			52604	
	Mar-14	466	359	16,130	1,822		Mar-14	278	293	872	262		Mar-14		7700	43485	6082
	Apr-14						Apr-14						Apr-14				
	May-14						May-14						May-14				
	Jun-14						Jun-14						Jun-14				
	Jul-14					\rightarrow	Jul-14					\dashv	Jul-14				-
	Aug-14						Aug-14					_	Aug-14				1
	Sep-14 Oct-14					_	Sep-14 Oct-14						Sep-14 Oct-14				
	Nov-14					_	Nov-14					\dashv	Nov-14				
	Dec-14						Dec-14						Dec-14				





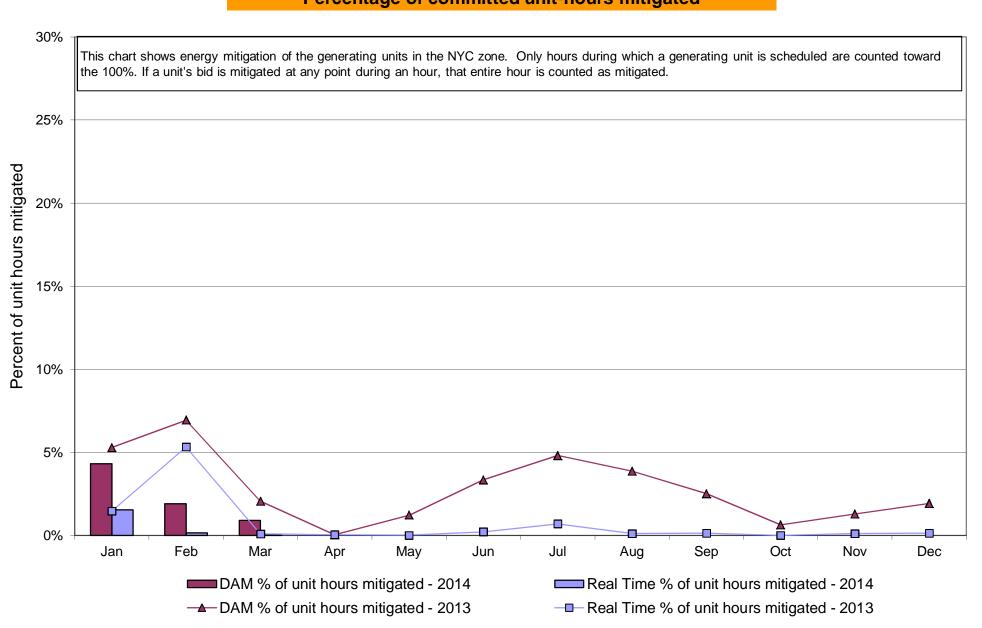


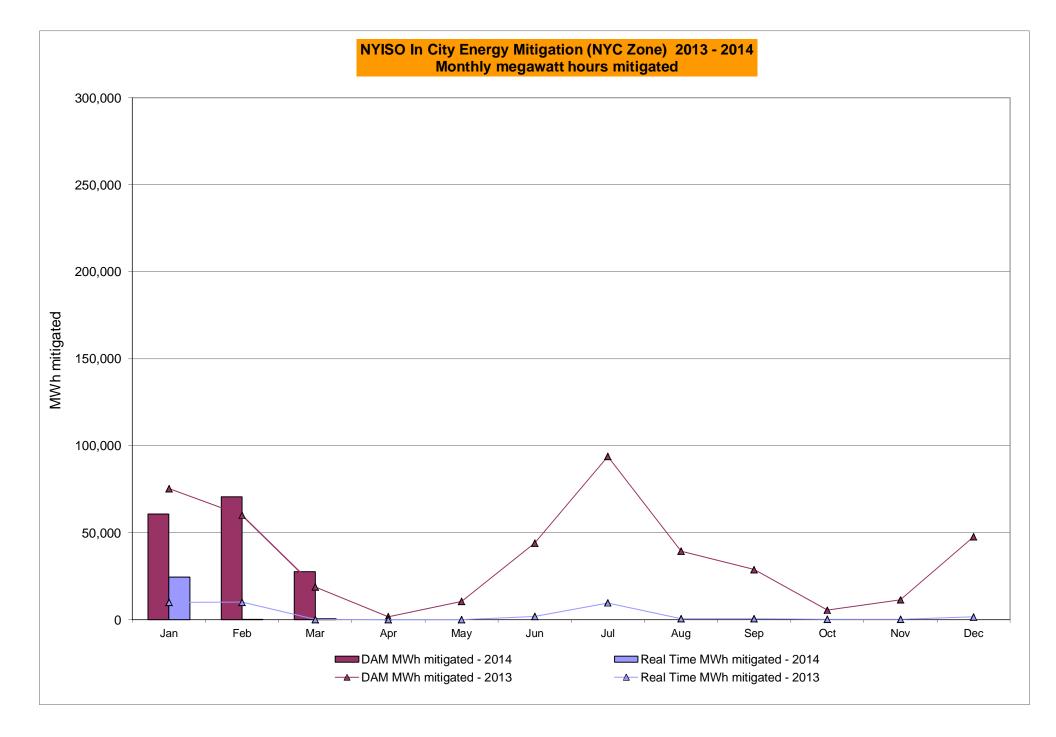


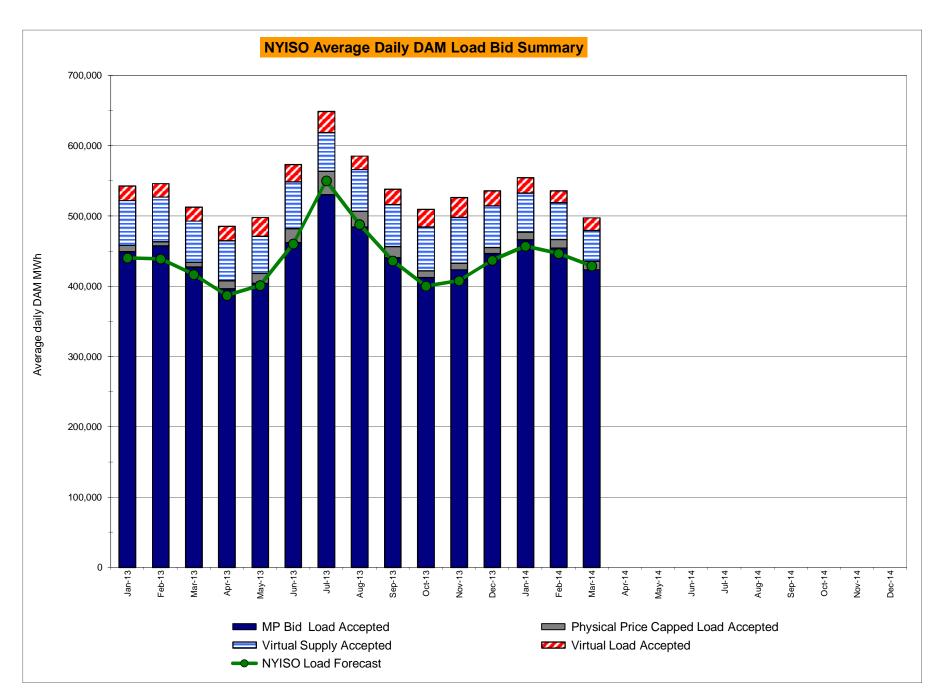
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

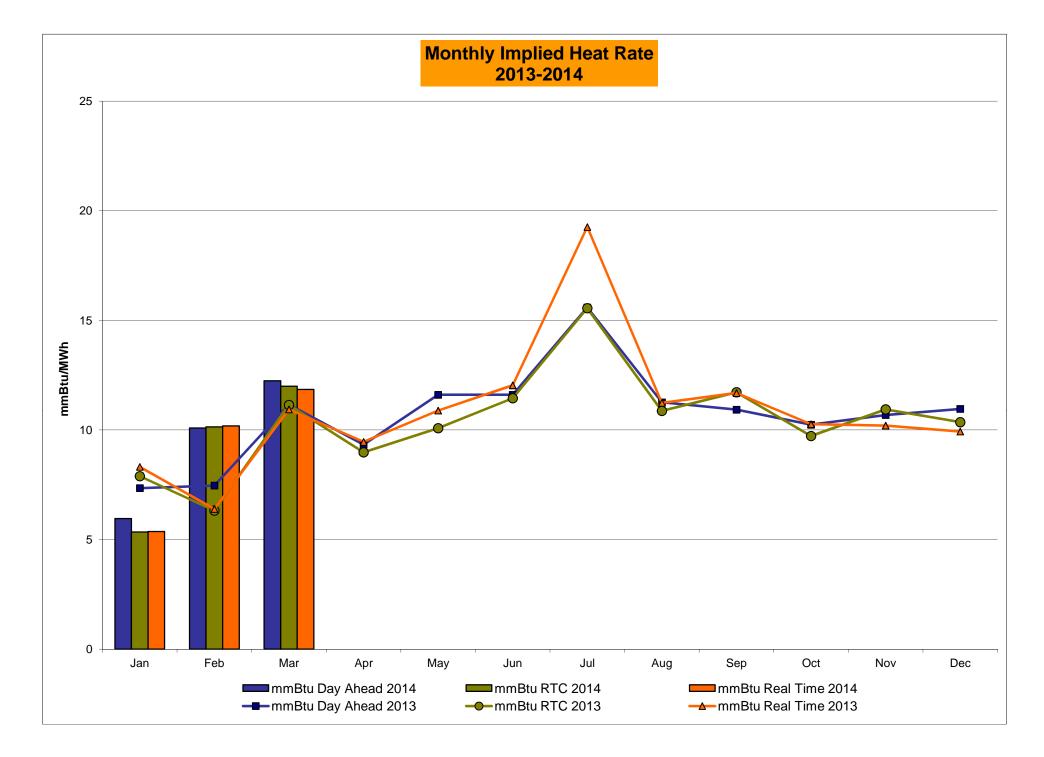
	-	TITOO Mark		,		Onweight		<i>,,</i> ,				
2014	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market	<u> </u>	<u> </u>	<u></u>				<u> </u>	<u> </u>	·	<u> </u>	<u> </u>	
10 Min Spin East	17.19	12.62	13.27									
10 Min Spin West	10.02	7.32	6.36									
10 Min Non Synch East	8.40	4.78	5.86									
10 Min Non Synch West	2.02	1.23	0.70									
30 Min East	1.77	0.93	0.47									
30 Min West	1.77	0.93	0.47									
Regulation East	37.05	24.05	21.29									
Regulation West	37.05	24.05	21.29									
-												
RTC Market	40.00	40.04	44.70									
10 Min Spin East	19.32	16.64	14.76									
10 Min Spin West	12.18	13.16	10.93									
10 Min Non Synch East	7.43	0.26	2.10									
10 Min Non Synch West	1.68	0.00	0.72									
30 Min East	0.08	0.00	0.12									
30 Min West	0.08	0.00	0.12									
Regulation East	30.21	29.03	24.35									
Regulation West	30.21	29.03	24.35									
NYCA Regulation Movement	0.28	0.27	0.26									
Real Time Market												
10 Min Spin East	19.64	15.48	12.19									
10 Min Spin West	13.10	11.80	9.11									
10 Min Non Synch East	9.03	0.70	1.59									
10 Min Non Synch West	3.37	0.00	0.48									
30 Min East	1.10	0.00	0.11									
30 Min West	0.92	0.00	0.11									
Regulation East	31.50	29.02	23.52									
Regulation West	31.50	29.02	23.52									
NYCA Regulation Movement	0.27	0.27	0.27									
	0.2.	0.2.	0.2.									
								_				
2013	<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	-	-						-	•			· · · · · · · · · · · · · · · · · · ·
Day Ahead Market 10 Min Spin East	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 10 Min Spin West	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	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	7.65 4.40 3.62 0.63	7.85 4.38 3.82 0.70	7.68 4.37 3.45 0.96	10.35 5.23 4.37 0.87
Day Ahead Market 10 Min Spin East 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	9.05 5.53 4.79 1.73 0.65	8.73 4.34 4.36 0.84 0.56	6.49 4.46 3.36 1.38 0.53	9.25 4.67 4.52 0.55 0.36	7.59 4.46 3.73 0.88 0.40	10.13 4.06 8.31 2.27 0.62	6.84 3.94 3.37 0.60 0.33	7.65 4.40 3.62 0.63 0.23	7.85 4.38 3.82 0.70 0.28	7.68 4.37 3.45 0.96 0.59	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	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	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	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	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	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 15.94 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	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 East 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 Non Synch East	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	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 9.53 5.16
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	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 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	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 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	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 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 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 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	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	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 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 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 8.81	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 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 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
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 East 30 Min West Regulation East Regulation East Regulation West Regulation Movement	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	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 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 East Regulation East Regulation East Regulation West Regulation Movement Real Time Market	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	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 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 0.16 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 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 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	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 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 East Regulation Fast Regulation East Regulation Movement Real Time Market 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 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 7.03 1.83	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 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 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 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 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 3.03 0.13 1.84	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 9.74 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 West Regulation East Regulation West RTC Market 10 Min Spin East 10 Min Spin East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation East Regulation Movest Regulation West NYCA 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 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 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 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 9.73 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 West Regulation West Regulation Movement Real Time Market 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Spin East 10 Min Spin East 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 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 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 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 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 9.73 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 West 30 Min East 30 Min East Regulation West Regulation East Regulation West Regulation West Regulation West Regulation West NYCA Regulation Movement Real Time Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch 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	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	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 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	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 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 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 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	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	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
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NYISO In City Energy Mitigation - AMP (NYC Zone) 2013 - 2014 Percentage of committed unit-hours mitigated

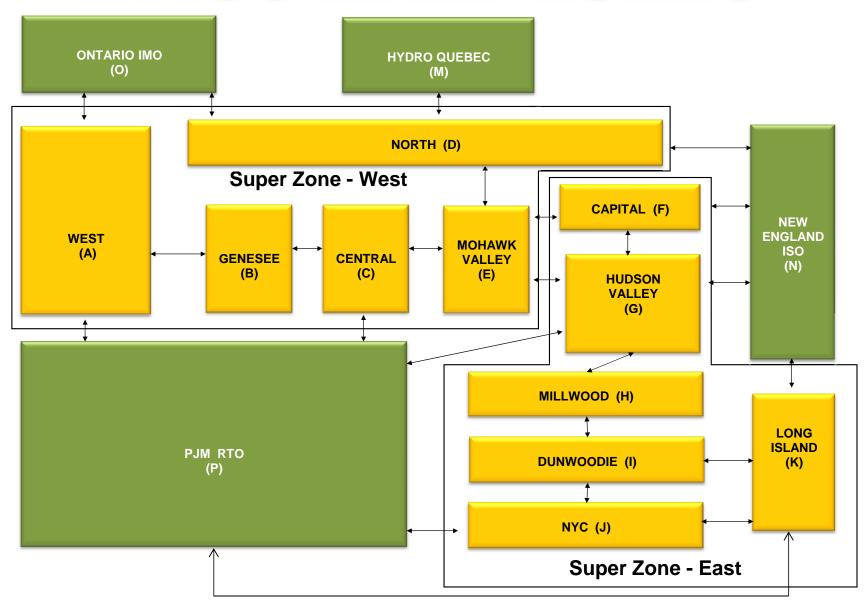








NYISO LBMP ZONES

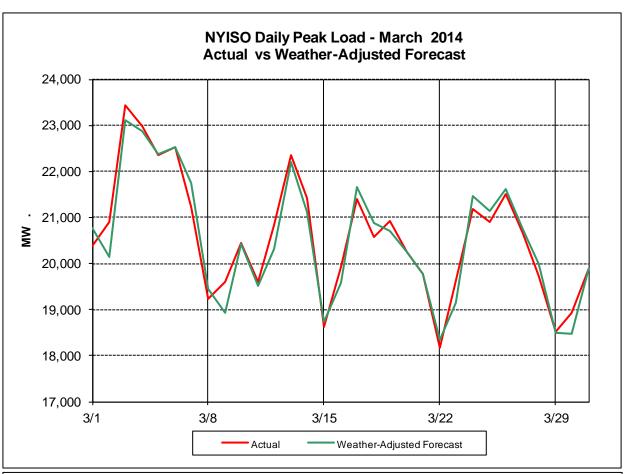


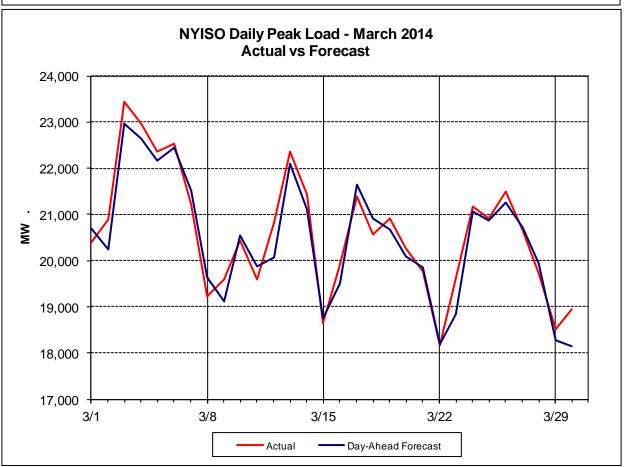
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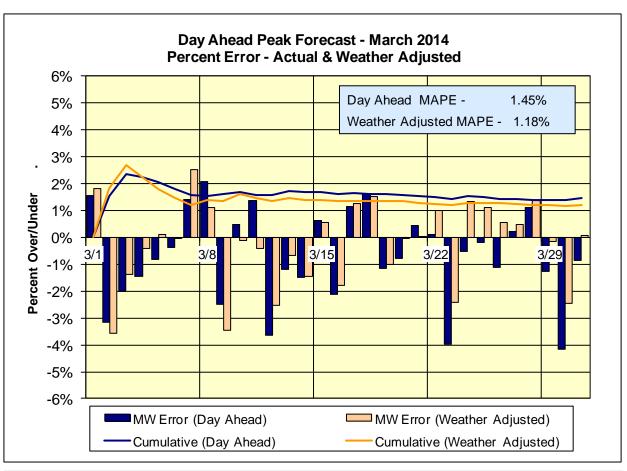
Billing Codes for Chart 4-C

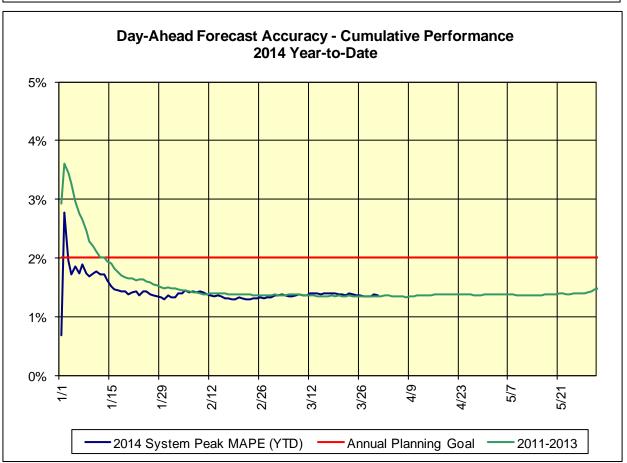
Chart - C Category Name	Billing Code	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee 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

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Project	Status and Milestone Deliverables
	Business Intelligence Products
Business Intelligence Roadmap: Data Integration	Status: 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.
	Deliverables: 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	Status: 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.
	Deliverables: The 2014 project will focus on delivering enhancements to existing reports to align with the additional FERC requirements.
Public Website Technology Upgrade	Status: 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 by using Microsoft SharePoint to maintain and post documents to the public website.
	Deliverables: The 2014 project deliverable is the deployment of the technology upgrade.



Project	Status and Milestone Deliverables
	Canacity Market Broducts
Additional Capacity Zones	Status: 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. Deliverables: The 2014 project deliverable is the software deployment.
ICAP Auction Validation and Reporting	Status: 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. Deliverables: The 2014 project deliverable is the development of the functional requirements and plans for a software deployment in 2015.
ICAP Reference System	Status: Market Mitigation and Analysis (MMA) collects extensive financial data from generation owners in order to perform the ICAP market mitigation measures. Now that the data collection process is standardized, efficiency and transparency could be gained by creating a web-based data portal that would allow MPs to upload and review their data. The NYISO and its consultants could use the data portal in the review process and to facilitate discussions with MPs. The anticipated deliverable is a Web-based software application, similar in concept to the Reference Level Software (RLS), but with different functionality. This software will enable MMA to complete pre-mitigation determinations for new capacity zones in an automated



Project	Status and Milestone Deliverables
	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	Status: NYISO will focus on the development of market rules and identification of software changes required to permit demand response entities to participate in the NYISO's real-time energy market. BIC and OC approved the Market Design concepts for this multi-year project in December 2012. Business Requirements were approved in 2013.
Life gy Flanket	Deliverables: Obtaining stakeholder approval on the market design is the focus of the project in 2014.
SCR Provisional ACL Phase	Status: The SCR Program is the largest of the NYISO's demand response programs, both in the number of individual demand side resources and MW. Since the SCR baseline changes were implemented in April 2011, the NYISO has received a significant number of comments, including three market participant presentations at the ICAPWG, regarding SCRs enrolled with a Provisional ACL. One of the presentations related to using the Provisional ACL as a way to allow resources to account for an increase in load since the last Capability Period, which would allow the SCR to offer more capacity. The scope of the project is intended to address four key areas from stakeholder comments:
	 Address allowance for the use of Provisional ACL for SCRs that change RIPs; Review the limitation on Provisional ACL for three consecutive Capability Periods; Review SCR Load Zone Peak Hours for Winter ACL; and Address increased baseline with reporting process to increase ACL values within a Capability Period.



Project	Status and Milestone Deliverables
	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.
	Deliverables: The focus of the 2014 project is the deployment of the next phases of software changes.
SCR Baseline Study	Status: This project will evaluate the current Average Coincident Load (ACL) against a number of alternative response baseline calculations using a Customer Baseline Load (CBL) for SCRs. In February 2011, when the NYISO proposed, and stakeholders accepted, the change to the SCR baseline from Average Peak Monthly Demand (APMD) to ACL, the NYISO committed to conducting a study to evaluate an additional set of baseline calculations for measuring event response. The objective of the study is to determine if there is a method of estimating response to an event that will provide a better estimate of event response than the ACL. The study is complete.
	Deliverables: 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	Status: NYISO planned to implement the net benefits test in March 2012 based on the compliance filing submitted in August 2011. However, implementation was placed on hold pending a response from FERC. Also, as part of the compliance obligation, NYISO completed a study in August 2012 to evaluate the feasibility of incorporating a dynamic net benefits test into the day-ahead and real-time unit commitment and scheduling processes. A compliance filing detailing the results of the feasibility study was submitted to FERC in September 2012. 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



Project	Status and Milestone Deliverables
	subsequently approved for August 14. Also, NYISO requested rehearing on the cost allocation methodology.
	Deliverables: 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	Status: 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. Deliverables: 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	Status: The State of the Market has recommended that NYISO continue to work with its neighbors to provide market efficiencies from transaction scheduling. This project will look to expand upon the work and concepts outlined in CTS with NE to improve transaction scheduling inefficiencies that can occur between PJM's physical transaction modeling and NYISO's economic based scheduling models. A market design concept was completed in 4 th quarter 2012. NYISO and PJM Stakeholders approved the market design in 2013. Software development was completed at the end of 2013. Deliverables: The focus of this project in 2014 is the software deployment, joint testing



Project	Status and Milestone Deliverables
	and implementation. The software was deployed in March in preparation for the joint testing cycle between NYISO and PJM.
Scheduling and Pricing: Graduated Transmission Demand Curve	Status: 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. Deliverables: 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	Status: 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 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.





Project	Status and Milestone Deliverables
	Deliverables: 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	Status: 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. Deliverables: The project deliverable for 2014 is a deployment.
Identity and Access Management (IAM)	Status: This multi-year project is NYISO's top security priority for mitigating cyber security 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.
	Deliverables: The focus of this project in 2014 is implementation to complete the 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.



Project	Status and Milestone Deliverables
Stakeholder Services Suite	Status: 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. Deliverables: 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	Status: 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. Deliverables: The focus of this project in 2014 is implementation of the software changes.



Project	Status and Milestone Deliverables			
Oracle Financials Upgrade	Status: 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 is in process. Deliverables: The focus of this project in 2014 is completion of the software upgrade.			
Procurement Enhancements	Status: 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. Deliverables: The focus of this project in 2014 is completion of the functional requirements.			
	Operations & Reliability Products			
Energy Management System (EMS) Visualization Status: This project is the continuation of the 2012-2013 projects to design software system capable of collating and displaying operationally relevant info Operators and support staff in the control center. Leveraging the tools and in additional capabilities will be developed. Deliverables: The focus of this project in 2014 is implementation of software system capable of collating and displaying operationally relevant info Operators and support staff in the control center. Leveraging the tools and in additional capabilities will be developed.				



Project	Status and Milestone Deliverables				
	Status: 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	 RTS Simulation Capability: Enhancements to Simulation Results Reporting and Simulation Data Input (MMA Ranger "Area" Enhancements) Phase 2 of this project, will utilize the remaining funds to enhance MMA's SAS reporting capabilities. 				
	Deliverables: 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 & Performance Enhancements	Status: The NYISO's unit commitment and economic dispatch process utilizes Lagrangian Relaxation (LR) and MINOS technologies. These are being replaced across the industry with Mixed Integer Programming (MIP)/linear programming optimization approach. The NYISO is the last remaining Ventyx/ABB customer on legacy LR/MINOS, which was developed in the late 1970s. MIP provides increased constraint modeling flexibility through high level modeling languages and current compiler and system optimization development,				



Project Status and Milestone Deliverables					
	as well as greater IT support. The vendor completed software development in 2013.				
Deliverables: 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	Status: 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, other feedback and TCC auction surveys that they would prefer fewer rounds and a shorter overall auction cycle.				
	Deliverables: The focus of this project in 2014 is to complete the study and discuss with stakeholders.				





Project	Status and Milestone Deliverables
TCC Revenue Allocation Automation	Status: 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.
	Deliverables: 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 - March 2014

Filing Date	Filing Summary	Docket	Order Date	Order Summary
11/12/2013	NYISO filing re: compliance revisions per Order No. 764 regarding integrating variable energy resources	ER14-385-000	03/20/2014	FERC order accepting revisions effective 01/15/2014, as requested
12/27/2013	NYISO filing re: revisions to simplify and improve the real- time market pricing rules that apply at NYISO's external proxy generator buses	ER14-864-000	03/04/2014	FERC order accepting revisions effective 04/08/2014 as requested, subject to a compliance filing to be made within15 days
03/06/2014	NYISO filing re: list of reviewing representatives for the protected material in the Hudson Transmission Partners v. NYISO proceeding	EL12-98-000		
03/13/2014	NYISO filing re: MST compliance revisions concerning proxy generator bus pricing rules	ER14-864-001		
03/14/2014	NYISO filing re: clarifications to the MST and OATT price correction tariff provisions to improve internal consistency	ER14-1506-000		
03/14/2014	NYISO filing re: answer to various third party requests for rehearing of the 1/28/14 order concerning the ICAP demand curve parameters	ER14-500-001		
03/19/2014	NYISO filing re: informational compliance report on broader regional markets	ER08-1281-006		
03/20/2014	NYISO filing re: motion to dismiss NYISO as a party to the NYAPP v. NMPC proceeding concerning the ROE in the NMPC TSC formula rate	EL14-29-000		
03/20/2014	NYISO filing of comments with the EPA re: CO2 rule – regional compliance and reliability safety valve proposals	No docket no.		
03/24/2014	ISO-RTO Council filing re: comments on the proposed geomagnetic disturbance reliability standards	RM14-1-000		
03/26/2014	NYISO filing re: post technical conference comments concerning the modeling of Load Zone K as export constrained	AD14-6-000		
03/27/2014	NYISO filing re: seventh informational report on efforts to develop rules addressing compensation to generators that are neded for reliability	ER10-2220-000		
03/27/2014	NYISO filing re: motion to intervene and comment on the Dunkirk request for tariff waiver concerning its existing interconnection rights	ER14-1445-000		

Filing Date	Filing Summary	Docket	Order Date	Order Summary
03/28/2014	NYISO filing re: confidential submission to the NYSPSC of documentation and data submitted to the US Department of Energy related to the NYISO's Smart Grid Investment Grant Project	Case No. 09-E- 0310		
03/28/2014	NYISO filing re: informational report on compensation paid pursuant to the bid restriction waiver	ER14-1138-000		
03/31/2014	NYISO filing re: answer to the HTP protest concerning the HTP v. NYISO complaint on the the scaling factor that the NYISO applied when making the buyer side mitigation rule determination for the HTP project	EL12-98-002		
03/31/2014	NYISO annual compliance report re: unreserved use and late study penalties	OA14-2-000		