

# Monthly Report

May 2015

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## Operations Performance Metrics Monthly Report



## May 2015 Report

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



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## May 2015 Operations Performance Highlights

- Peak load of 24,285 MW occurred on 5/26/2015 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 21 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

		Year-to-Date Value (\$M)
<b>Regional Congestion Coordination</b>	\$0.40	\$8.22
Regional PJM-NY RT Scheduling	\$0.84	\$3.35
Total	\$1.24	\$11.57

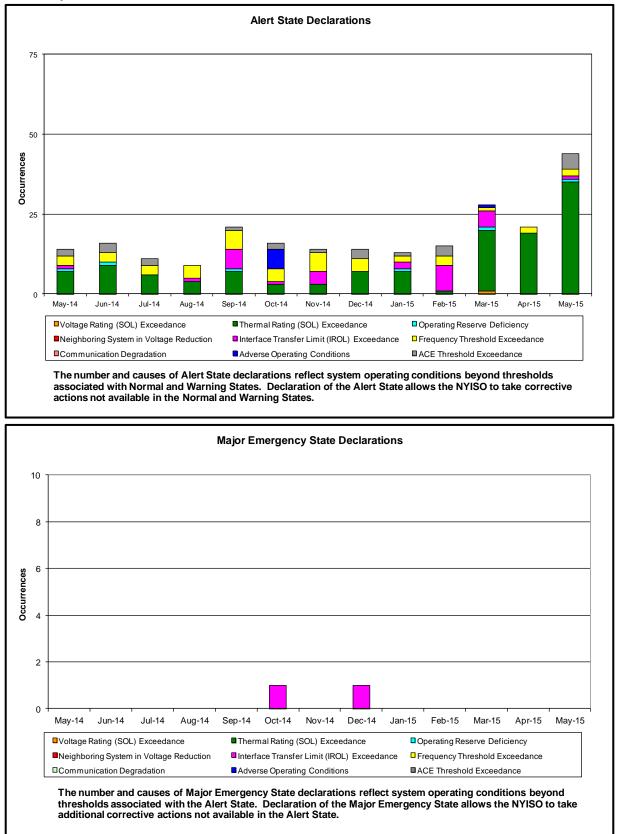
- Statewide uplift cost monthly average was (\$0.04)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality. Given the transition to the Summer Capability period, the price changes from the prior month are excluded.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
June 2015 Spot Price	\$4.88	\$10.56	\$15.41	\$5.77
Change from Prior Month	\$0.81	(\$0.37)	(\$0.63)	(\$0.01)

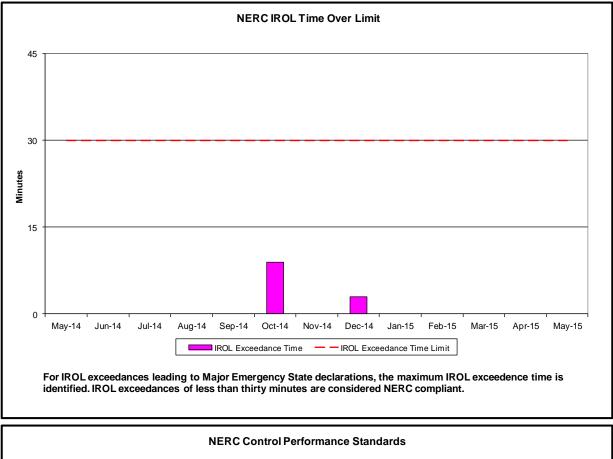
- NYCA Price increases by \$0.81 due to a 313 MW decrease in Imports as well as a 137 MW increase in Exports despite a 63 MW increase in Generation UCAP.
- LHV Price decreases by \$0.37 due to a 37 MW increase in Generation UCAP and a 17 MW increase in SCR UCAP available.
- NYC Price decreases by \$0.63 due to a 37 MW increase in Generation UCAP and an 11 MW increase in SCR UCAP available.

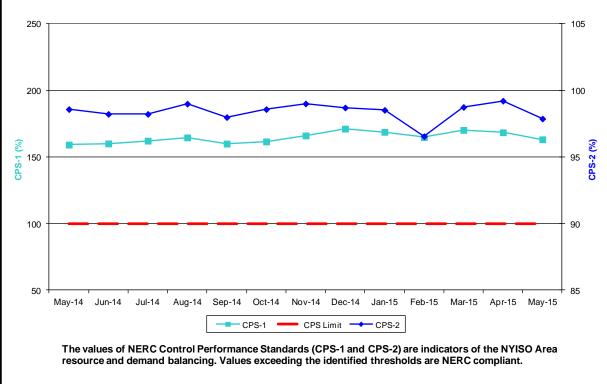


#### Reliability Performance Metrics

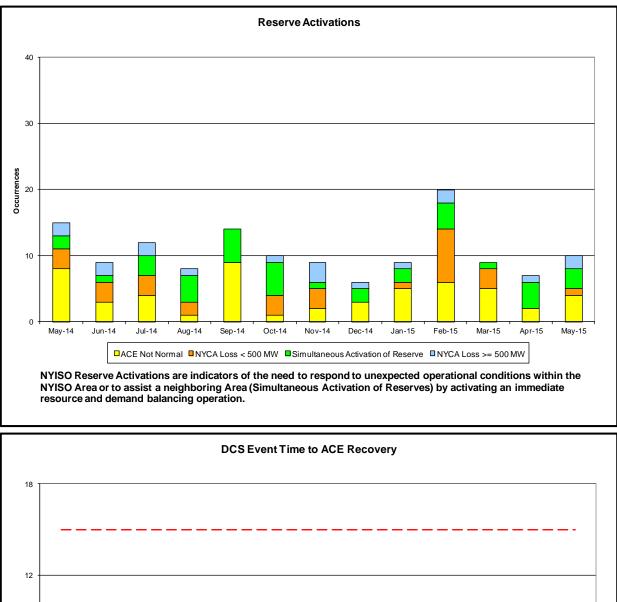


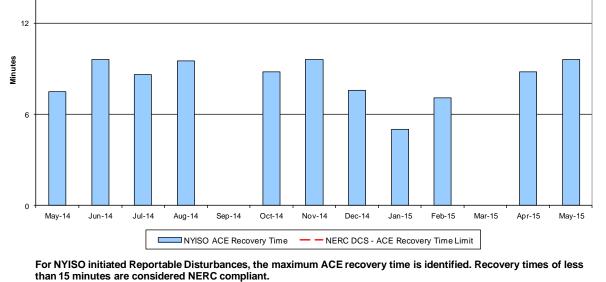




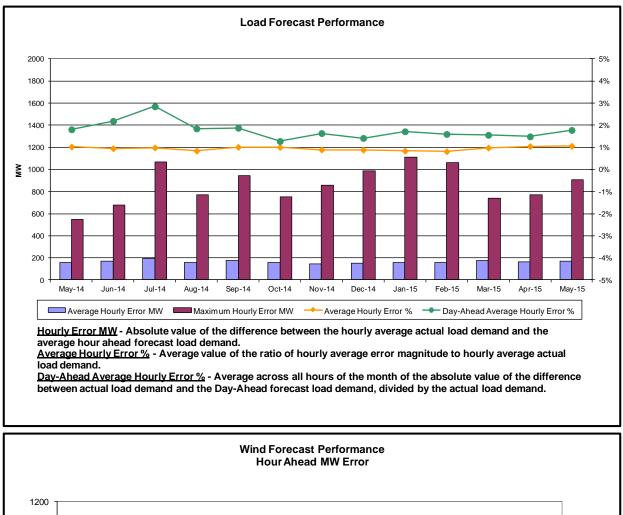


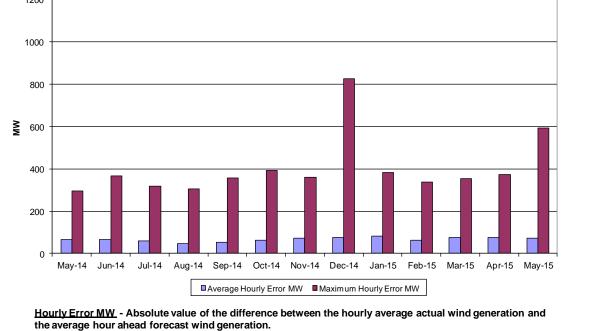




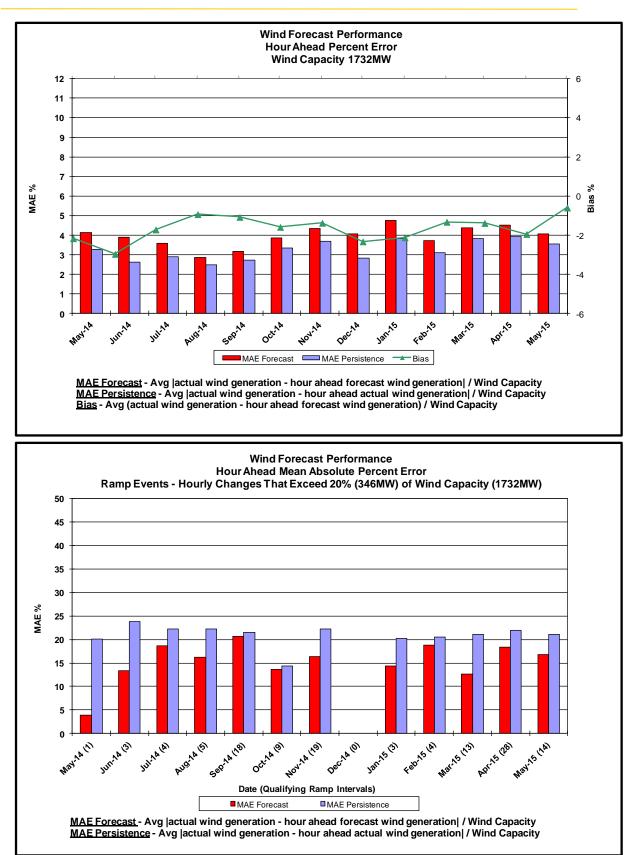




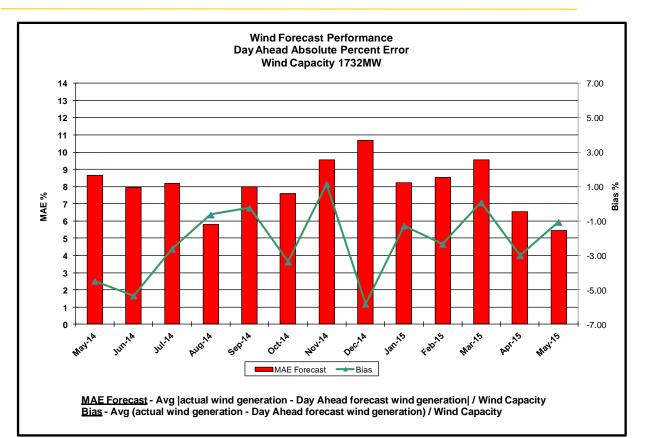


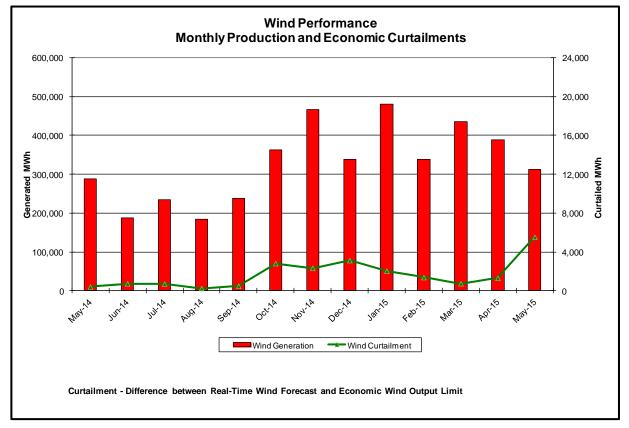




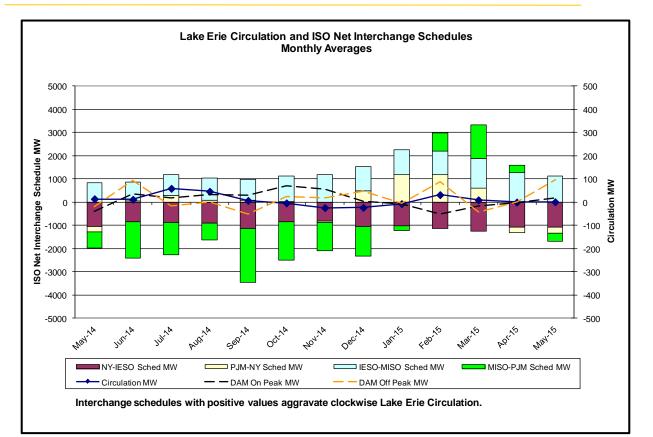


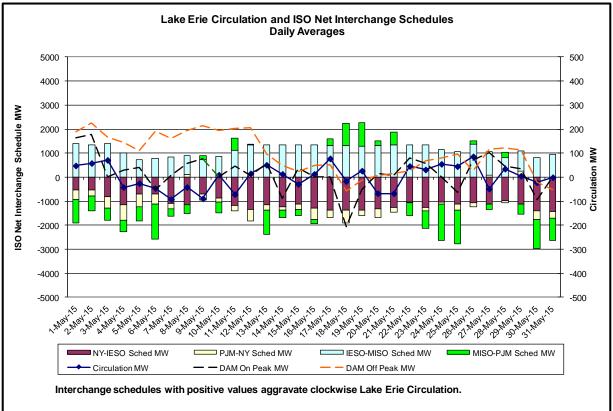




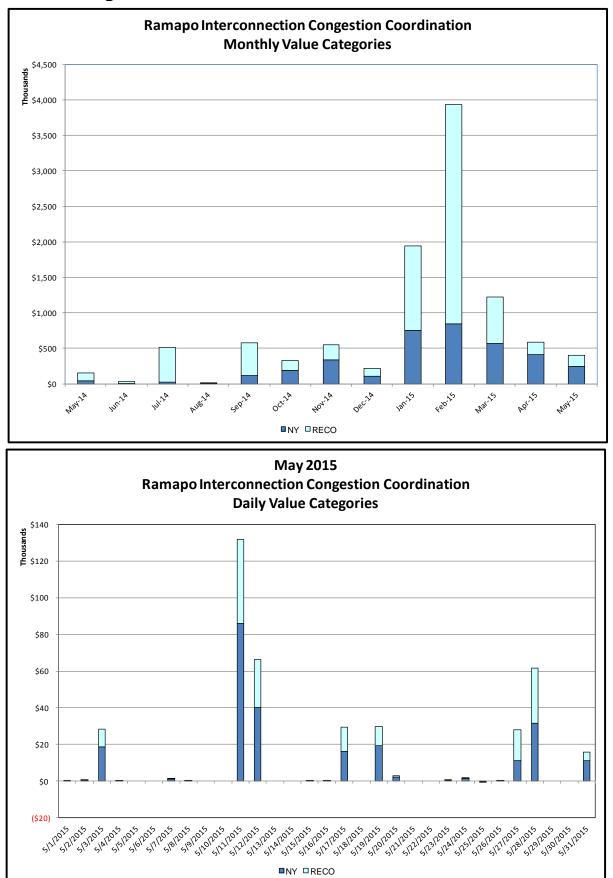












## **Broader Regional Market Performance Metrics**



#### Ramapo Interconnection Congestion Coordination

<u>Category</u> NY

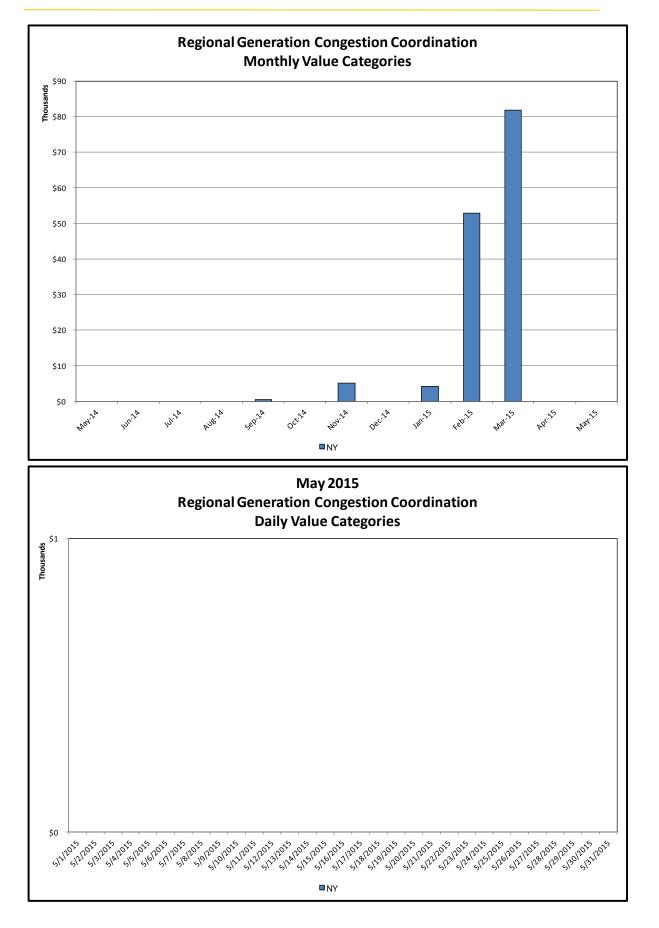
RECO

#### **Description**

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.

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





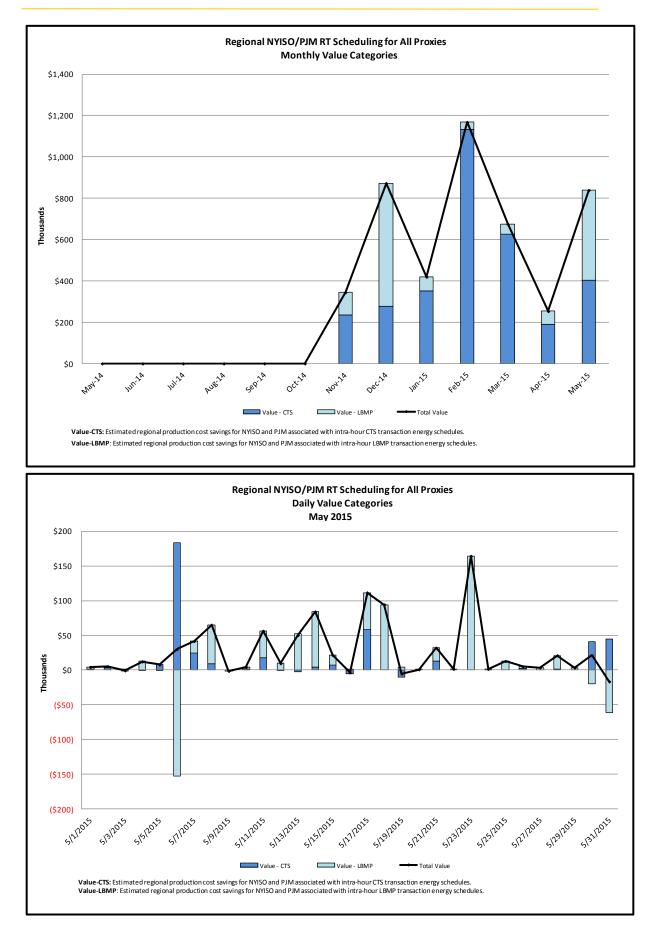


#### **Regional Generation Congestion Coordination**

<u>Category</u> NY

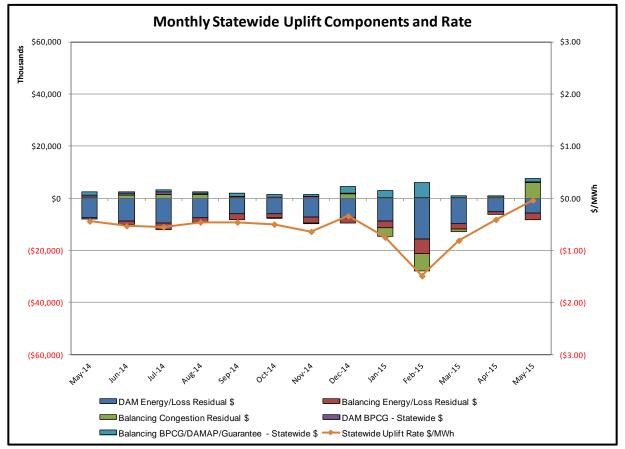
<u>Description</u> NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient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



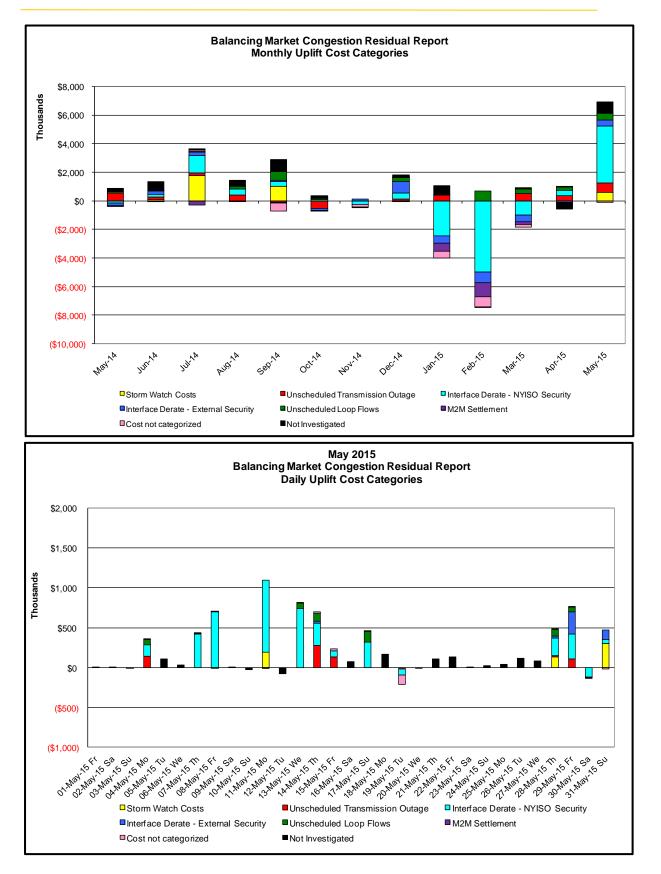




#### Market Performance Metrics









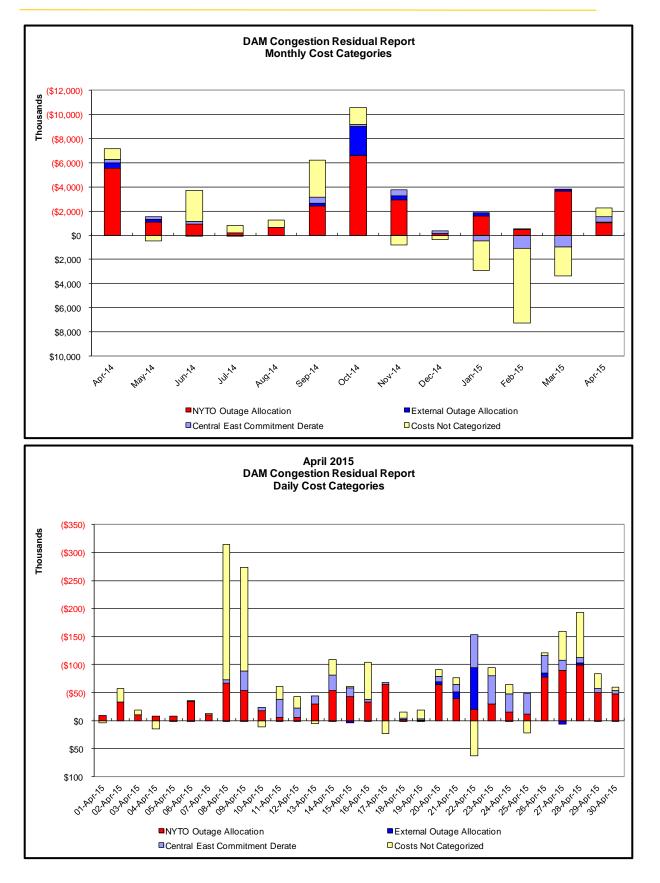
Event	Description	May Dates
	Thunder storm Alert	11,28,31
	Early return to service Moses-Willis 230kV (#MW1)	19
	Forced outage CHAT_DC_GC1	28
	Forced outage Fitzpatric-Edic 345kV (FE1)	14,15
	Forced outage Moses-Adirondack 230kV (#MA2)	29
	Forced outage Sprainbrook-East Garden City 345kV (#Y49)	29
	Forced outage West 49th Street-Sprainbrook 345kV (#M51)	4
	Derate Adirondack-Moses 230kV (#MA1) for I/o MASSENA765/230_BK_1	4
	Derate Astoria Annex-East 13th Street 345kV (#Q35L) for I/o SIN:48&Q35M&BK10&BK11	4
	Derate Astoria Annex-East 13th Street 345kV (#Q35M) for I/o SCB:ASTAX(3):34091&PAR&TR&Q35L	29
	Derate Astoria Annex-East 13th Street 345kV (#Q35M) for I/o SIN:B47& Q35L& E13TH BK16&17	4,28
	Derate Astoria West/Queensbridge	4
	Derate Dunwoodie-Shore Road 345kV (#Y50)	31
	Derate East 179th Street-HellGate East 138kV (#15054)	28
	Derate East Garden City-Valley Stream 138kV (#262) for I/o BUS:BARRETT 292&459&G2&IC9-12	4,14,15,17
	Derate East Garden City-Valley Stream 138kV (#262) for I/o SCB:NEWBRDG 1380 461 BK6	14,29
	Derate Freeport-Newbridge 138kV (#461)	29
	Derate Gowanus-Greenwood 138kV (#42232)	4
	Derate Gowanus-Greenwood 138kV (#42232) for I/o TWR:GOETHALS 22 & 21	4
	Derate Leeds-New Scotland 345kV (#93) for I/o Leeds-NewScotland 345kV (#94)	17
	Derate MottHaven-Dunwoodie 345kV (#71) for I/o MottHaven-Dunwoodie 345kV (#72)	4
	Derate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76	4,8,13,28
	Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)	4,7,8,11,13-15,17,28,29
	Derate Sprainbrook-East Garden City 345kV (#Y49) for I/o Dunwoodie-Shore Road 345kV (#Y50)	4,14,15
	Derate West 49th Street-Sprainbrook 345kV (#M51) for I/o SCB:SPBK(RS3):W75 & 99941	4
	Derate Wood Street-Pleasant Valley 345kV (#F30) for I/o TWR:PVLLE F38&F39&Y86&Y87&BK1	13
	NYCA DNI Ramp Limit	7,8,11,13,14,17,28-31
	Uprate FreshKills-Willow Brook 138kV (#29212)	30,31
	Uprate Leeds-New Scotland 345kV (#93) for I/o Leeds-NewScotland 345kV (#94)	19
	Uprate Leeds-Pleasant Valley 345kV (#92) for I/o Athens-Pleasant valley 345kV (#91)	19
	Uprate Meyer-Wethersfield 230kV (#85/87)	31
	Uprate Scriba-Volney 345kV (#20-SV) for I/o Scriba-Volney 345kV (#21-SV)	8,30,31
	HQ_CEDARS-NY Scheduling Limit	14
	HQ_CHAT-NY Scheduling Limit	29
	IESO_AC DNI Ramp Limit	11,14
	IESO_AC-NY Scheduling Limit	28,29
	NE_AC-NY Scheduling Limit	8,14
	PJM_AC DNI Ramp Limit	31
	PJM_AC-NY Scheduling Limit	30,31
	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Leeds-New Scotland (#93)	17
	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#78)	4,7,13,14,17,28,29
	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW;Niagara-Packard 230KV (#61)	4,13,17,28



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

<u>Category</u> Storm Watch	<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	<u>Event Examples</u> TSA Activations								
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages								
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages								
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments								
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Clockwise Lake Erie Loop Flows greater than 125 MW								
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates									
Monthly Balancing Market Congestio	on Report Assumpti	ons/Notes									
<ol> <li>Storm Watch Costs are identified as daily total uplift costs</li> <li>Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.</li> <li>Uplift costs associated with multiple event types are apportioned equally by hour</li> </ol>											



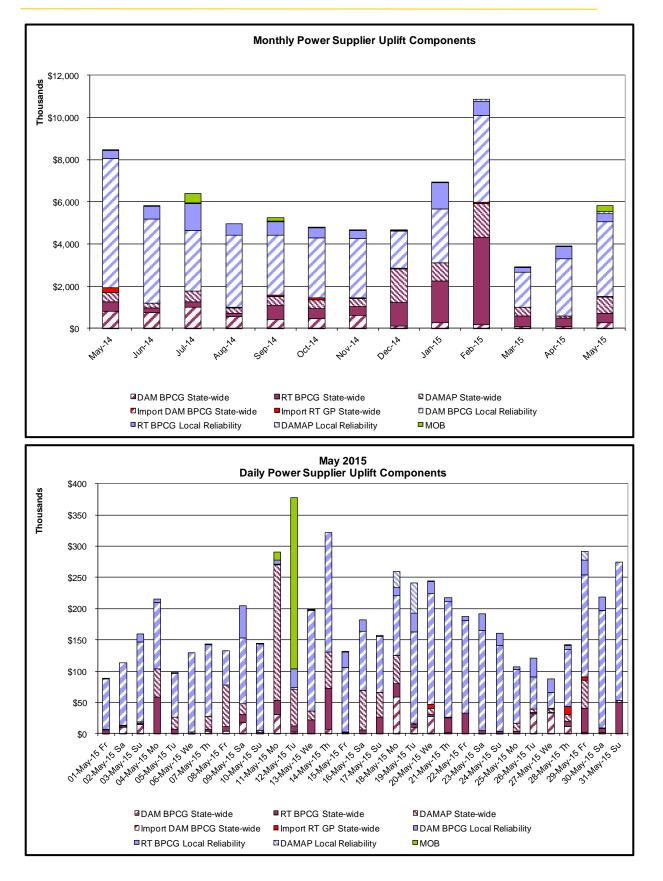




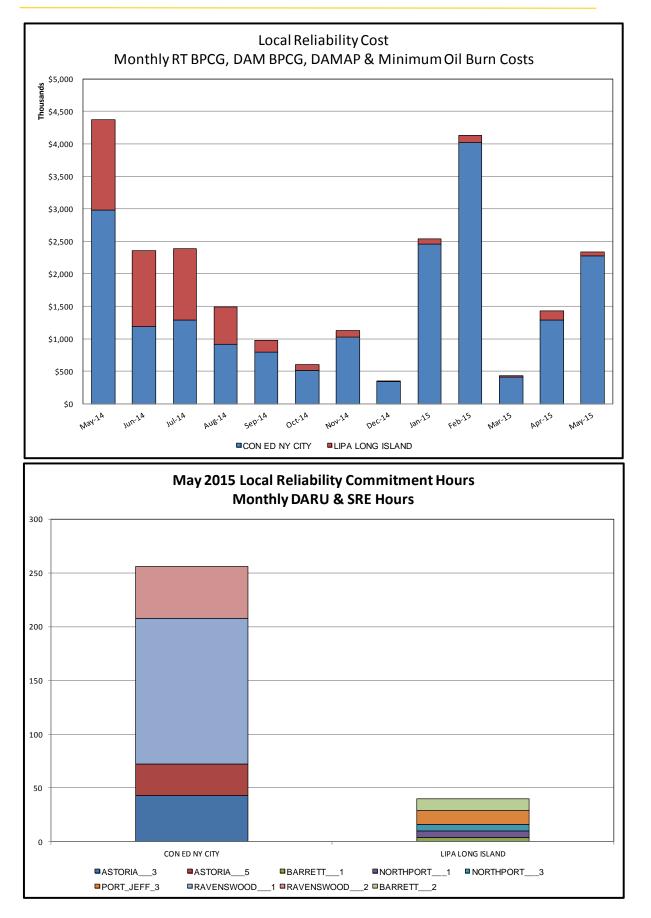
#### Day-Ahead Market Congestion Residual Categories

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

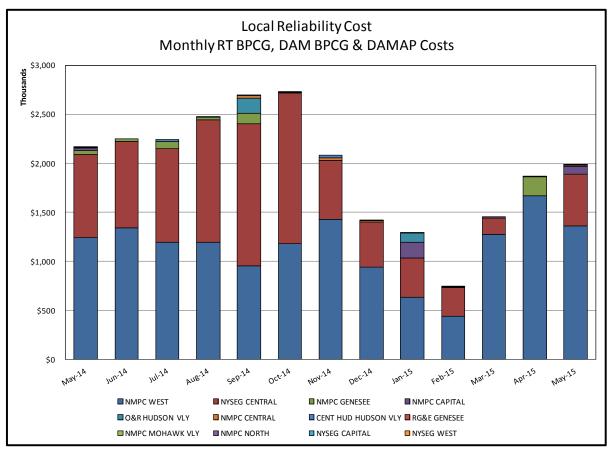


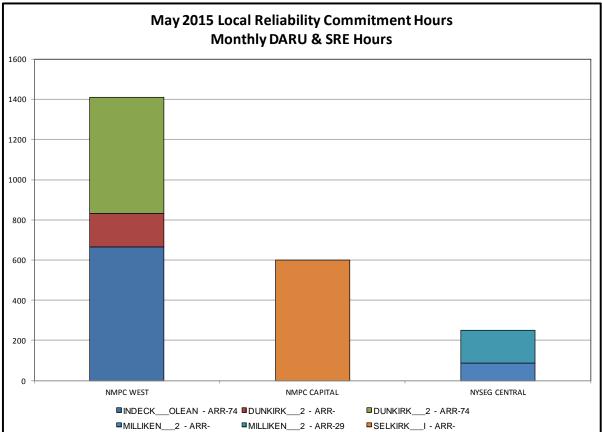




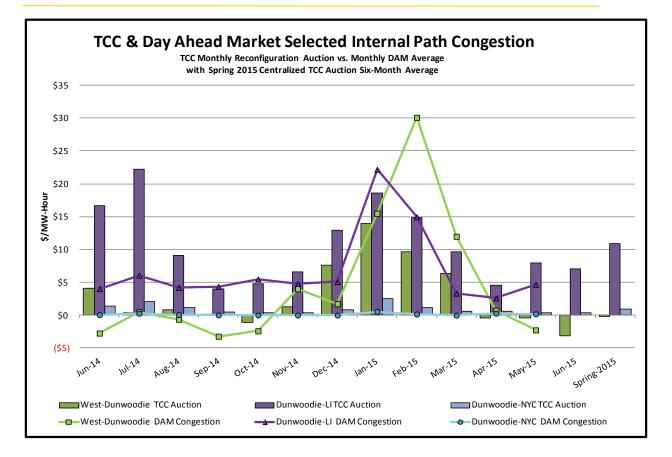


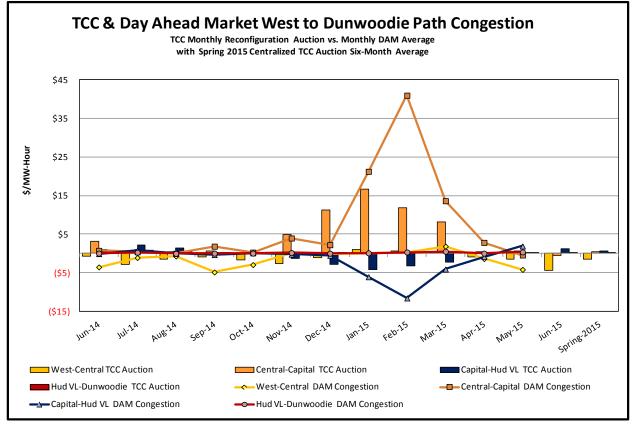




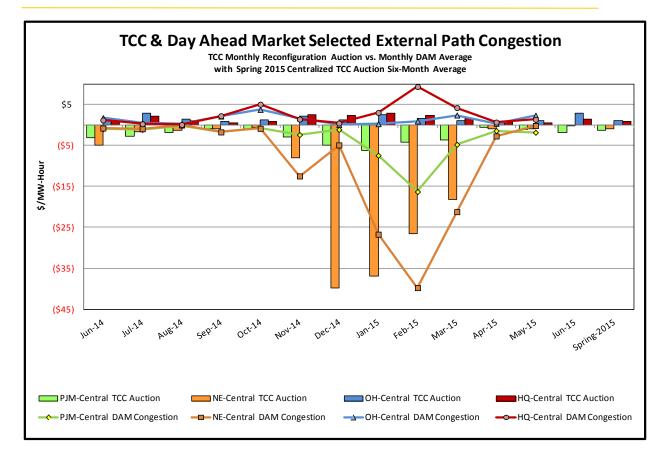




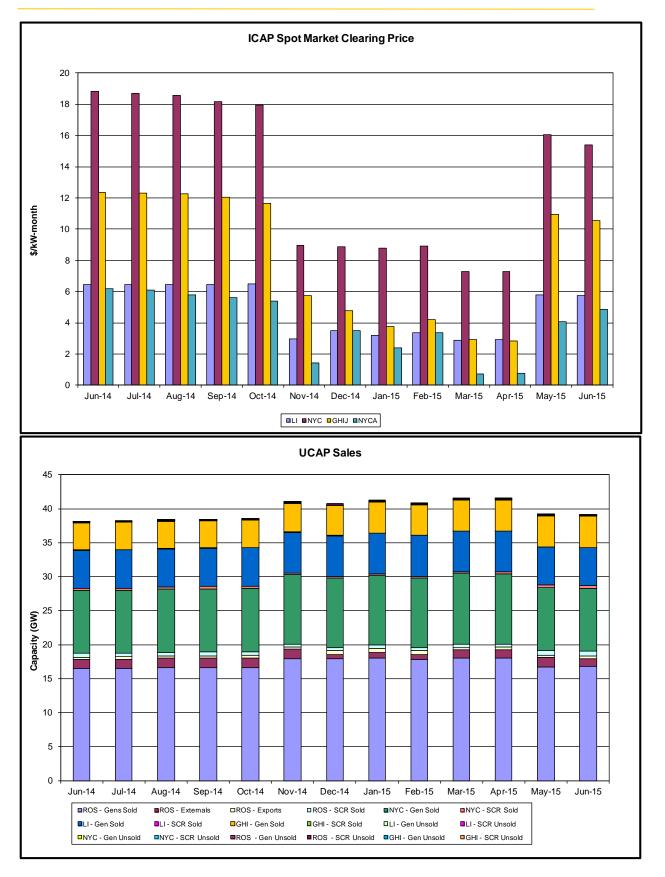






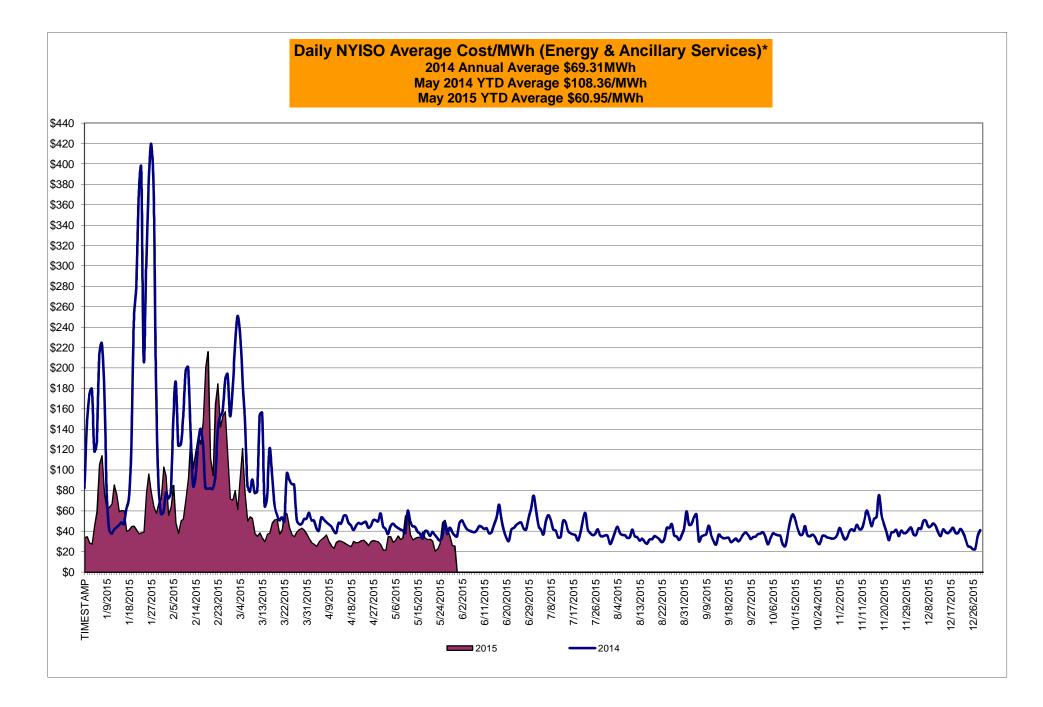






# Market Performance Highlights for May 2015

- LBMP for May is \$32.98/MWh; higher than \$28.35/MWh in April 2015 and lower than \$40.30/MWh in May 2014.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to April.
- May 2015 average year-to-date monthly cost of \$60.96/MWh is a 44% decrease from \$108.36/MWh in May 2014.
- Average daily sendout is 409 GWh/day in May; higher than 387 GWh/day in April 2015 and 391 GWh/day in May 2014.
- Natural gas and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.65/MMBtu, up 20% from \$2.21/MMBtu in April.
    - Transco Z6 NY is down 24% year-over-year
  - Jet Kerosene Gulf Coast was \$13.72/MMBtu, up from \$12.44/MMBtu in April.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.05/MMBtu, up from \$12.99/MMBtu in April.
    - Distillate prices are down 33% year-over-year
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is \$0.28/MWh; higher than (\$0.14)/MWh in April.
    - The Local Reliability Share is \$0.32/MWh, higher than \$0.27 in April.
    - The Statewide Share is (\$0.04)/MWh, higher than (\$0.41)/MWh in April.
      - The biggest reason for the increase was congestion out West aggravated on a few days by Lake Erie Loop flow
  - TSA \$ per NYC MWh is \$0.17/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than April.



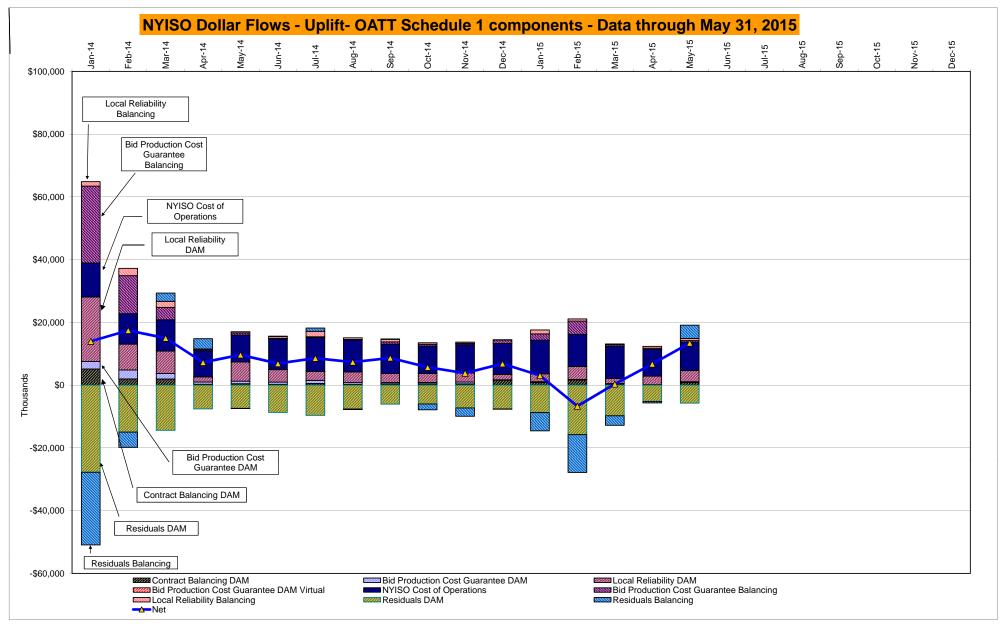
\* Excludes ICAP payments.

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

2015	January	<u>February</u>	March	<u>April</u>	<u>May</u>	June	July	<u>August</u>	<u>September</u>	<u>October</u>	November	December
LBMP	59.60	114.35	52.09	28.35	32.98							
NTAC	0.32	0.35	0.42	0.64	0.56							
Reserve	0.27	0.37	0.56	0.36	0.38							
Regulation	0.10	0.18	0.11	0.12	0.10							
NYISO Cost of Operations	0.70	0.70	0.70	0.70	0.70							
Uplift	(0.50)	(1.17)	(0.68)	(0.14)	0.28							
Uplift: Local Reliability Share	0.25	0.33	0.13	0.27	0.32							
Uplift: Statewide Share	(0.75)	(1.49)	(0.81)	(0.41)	(0.04)							
Voltage Support and Black Start	0.39	0.39	0.39	0.39	0.39							
Avg Monthly Cost	60.88	115.17	53.59	30.42	35.39							
Avg YTD Cost	60.88	87.68	76.61	66.80	60.95							
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.17							
2014	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	183.36	123.19	109.58	46.09	40.30	43.39	43.97	34.48	37.63	35.61	42.89	38.08
NTAC	0.56	0.64	0.39	1.18	0.69	0.78	0.43	0.41	0.50	0.57	0.68	0.86
Reserve	0.78	0.49	0.56	0.46	0.28	0.27	0.26	0.26	0.29	0.48	0.37	0.23
Regulation	0.27	0.40	0.22	0.40	0.12	0.12	0.12	0.13	0.11	0.12	0.11	0.08
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	0.22	0.56	0.35	(0.09)	0.07	(0.21)	(0.26)	(0.19)	(0.20)	(0.24)	(0.40)	(0.20)
Uplift: Local Reliability Share	1.43	0.75	0.62	0.15	0.51	0.32	0.29	0.27	0.26	0.26	0.24	0.13
Uplift: Statewide Share	(1.21)	(0.19)	(0.27)	(0.24)	(0.44)	(0.53)	(0.55)	(0.45)	(0.46)	(0.50)	(0.64)	(0.33)
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	186.24	126.14	112.15	48.82	42.51	45.39	45.57	36.14	39.38	37.59	44.71	40.09
Avg Monthly Cost		120.14		40.02	42.51	45.55	45.57	30.14	39.30	57.55		40.09
Avg YTD Cost	186.24	157.93	142.77	121.97	108.36	97.84	89.46	82.60	78.07	74.63	72.06	69.31
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.00	0.03	0.35	0.00	0.42	0.00	0.00	0.00
2013	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	79.77	85.76	48.94	44.47	52.21	50.17	68.49	40.81	44.24	<u>39.85</u>	43.30	66.41
NTAC	0.79	0.83	0.76	0.90	0.85	0.86	0.66	0.28	0.57	0.87	1.08	0.59
Reserve	0.38	0.44	0.43	0.36	0.49	0.34	0.50	0.32	0.38	0.42	0.38	0.44
Regulation	0.13	0.13	0.40	0.00	0.09	0.13	0.00	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	0.00	(0.15)	(0.33)	0.03	0.00	0.49	2.06	0.03	(0.05)	0.03	(0.07)	(0.25)
Uplift: Local Reliability Share	0.21	0.40	0.19	0.02	0.58	0.43	1.27	0.00	0.31	0.38	0.19	0.12
Uplift: Statewide Share	(0.23)	(0.55)	(0.52)	(0.35)	(0.17)	(0.31)	0.79	(0.49)	(0.36)	(0.19)	(0.25)	(0.12
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.75	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	82.34	88.06	50.96	46.91	55.10	53.05	72.87	42.62	46.31	42.54	45.88	68.36
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
* Excludes ICAP payments.										Data r	eflects true-ups the	ru Dec 2014.

\* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 6/8/2015 10:46 AM

Data reflects true-ups thru Dec 2014.



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											
2015	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWh	15,961,306	14,967,371	15,059,207	12,589,321	13,291,917	<u>buric</u>	<u>oury</u>	<u>August</u>	ocptember		November	December
DAM LSE Internal LBMP Energy Sales	55%	54%	53%	55%	57%							
DAM Esternal TC LBMP Energy Sales	5%	54 % 6%	53 % 6%	4%	2%							
DAM External To EDM Energy Sales	35%	33%	33%	33%	35%							
DAM Bilateral - Importi/Non-LBMP Market Bilaterals	3%	5%	5%	6%	4%							
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	1%	2%	4 % 1%							
DAM Bilateral - Wheel Through Bilaterals	0%	1%	1%	1%	0%							
Balancing Energy Market MWh	-648,574	-287,795	-397,342	-410,311	-327,906							
Balancing Energy LSE Internal LBMP Energy Sales	-149%	-252%	-192%	-147%	-143%							
Balancing Energy External TC LBMP Energy Sales	30%	117%	64%	36%	36%							
Balancing Energy Bilateral - Internal Bilaterals	13%	14%	19%	5%	6%							
Balancing Energy Bilateral - ImportI/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%							
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	8%	12%	11%	10%							
Balancing Energy Bilateral - Wheel Through Bilaterals	0%	12%	-4%	-5%	-9%							
Transactions Summary												
LBMP	58%	59%	57%	57%	58%							
Internal Bilaterals	37%	34%	35%	35%	36%							
Import Bilaterals	3%	5%	5%	6%	4%							
Export Bilaterals	2%	2%	2%	2%	2%							
Wheels Through	0%	1%	1%	0%	0%							
Market Share of Total Load												
Dav Ahead Market	104.2%	102.0%	102.7%	103.4%	102.5%							
Balancing Energy +	-4.2%	-2.0%	-2.7%	-3.4%	-2.5%							
Total MWH	15,312,732	14,679,576	14,661,865	12,179,010	12,964,011							
Average Daily Energy Sendout/Month GWh	462	481	436	387	409							
		-										
<u>2014</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	July	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Day Ahead Market MWh	16,034,264	14,409,515	14,633,570	12,101,747	12,984,458	14,719,929	16,528,338	15,536,610	14,312,509	13,684,158	13,945,509	14,992,656
DAM LSE Internal LBMP Energy Sales	52%	50%	53%	56%	53%	54%	58%	57%	56%	54%	54%	54%
DAM External TC LBMP Energy Sales	5%	7%	6%	3%	2%	3%	1%	0%	1%	2%	5%	5%
DAM Bilateral - Internal Bilaterals	36%	36%	35%	33%	38%	36%	34%	35%	36%	38%	36%	36%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%	5%	4%	4%	3%	3%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	1%	2%	2%	1%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	1%	1%	1%	0%	1%	1%	1%	1%	1%	0%	0%	0%
Balancing Energy Market MWh	-249,484	-298,340	-116,173	54,298	-510,467	-558,413	-854,501	-764,108	-674,285	-999,342	-750,627	-705,848
Balancing Energy LSE Internal LBMP Energy Sales	-232%	-203%	-294%	-190%	-133%	-114%	-116%	-117%	-129%	-124%	-134%	-137%
Balancing Energy External TC LBMP Energy Sales	105%	76%	97%	207%	21%	22%	18%	15%	24%	14%	20%	28%
Balancing Energy Bilateral - Internal Bilaterals	20%	26%	69%	27%	3%	7%	4%	7%	7%	7%	9%	4%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	12%	0%	3%	0%	0%	0%	2%	1%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	11%	6%	25%	67%	4%	3%	2%	2%	3%	3%	5%	3%
Balancing Energy Bilateral - Wheel Through Bilaterals	-4%	-6%	-10%	-12%	1%	-18%	-8%	-7%	-7%	-1%	0%	1%
Transactions Summary												
LBMP	56%	56%	57%	59%	53%	55%	57%	55%	55%	52%	55%	56%
Internal Bilaterals	37%	37%	36%	33%	39%	38%	36%	37%	38%	42%	39%	38%
Import Bilaterals	5%	5%	5%	6%	5%	5%	5%	5%	5%	4%	4%	3%
Export Bilaterals	2%	1%	2%	2%	2%	1%	1%	2%	2%	2%	2%	2%
Wheels Through	1%	1%	1%	0%	1%	1%	1%	1%	1%	0%	1%	0%
Market Share of Total Load												
Day Ahead Market	101.6%	102.1%	100.8%	99.6%	104.1%	103.9%	105.5%	105.2%	104.9%	107.9%	105.7%	104.9%
Balancing Energy +	-1.6%	-2.1%	-0.8%	0.4%	-4.1%	-3.9%	-5.5%	-5.2%	-4.9%	-7.9%	-5.7%	-4.9%
Total MWH	15,784,780	14,111,175	14,517,397	12,156,045	12,473,991	14,161,516	15,673,837	14,772,502	13,638,224	12,684,816	13,194,882	14,286,808
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496	470	442	394	413	433

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

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

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

Market Mitigation and Analysis Prepared: 6/5/2015 1:00 PM

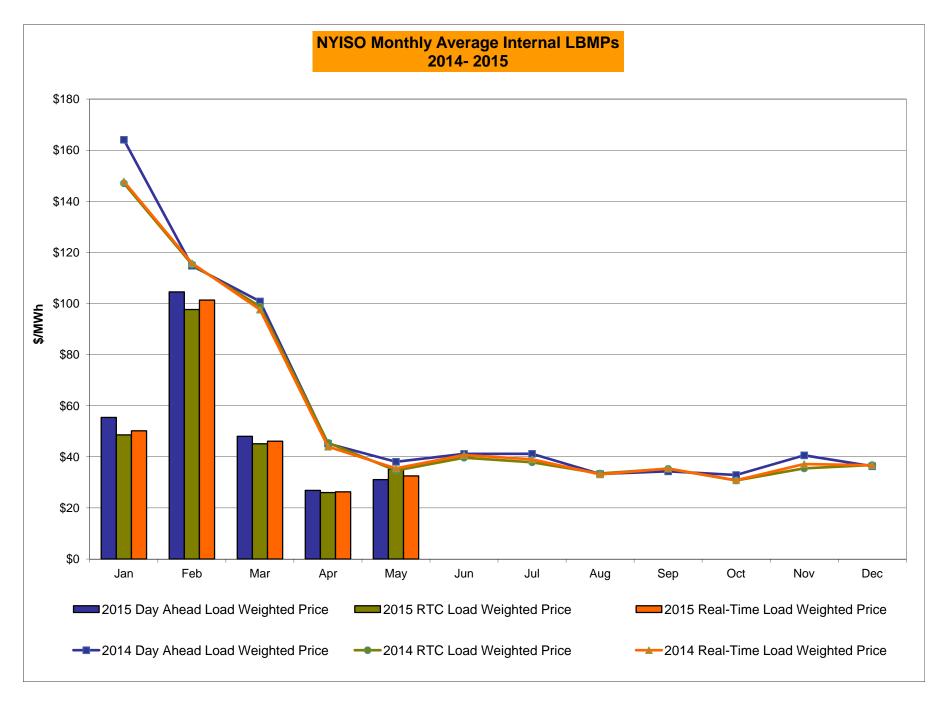
#### NYISO Markets 2015 Energy Statistics

	<u>January</u>	<b>February</b>	March	April	May	June	July	August	September	October November December
DAY AHEAD LBMP										
Price *	\$53.35	\$101.48	\$46.59	\$26.07	\$29.21					
Standard Deviation	\$24.61	\$48.85	\$21.51	\$6.73	\$13.44					
Load Weighted Price **	\$55.40	\$104.52	\$48.01	\$26.84	\$31.08					
RTC LBMP										
Price *	\$46.98	\$95.06	\$43.43	\$25.11	\$32.85					
		•								
Standard Deviation	\$22.84	\$47.55	\$29.42	\$12.31	\$35.40					
Load Weighted Price **	\$48.59	\$97.62	\$45.10	\$26.00	\$35.08					
REAL TIME LBMP										
Price *	\$48.51	\$98.83	\$44.38	\$25.46	\$30.39					
Standard Deviation	\$25.99	\$52.53	\$29.07	\$12.66	\$31.69					
Load Weighted Price **	\$50.18	\$101.34	\$46.10	\$26.28	\$32.52					
Average Daily Energy Sendout/Month GWh	462	481	436	387	409					

#### NYISO Markets 2014 Energy Statistics

	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	<u>July</u>	August S	<u>September</u>	October	November [	<u> December</u>
DAY AHEAD LBMP Price * Standard Deviation	\$155.11 \$121.52	\$110.69 \$50.86	\$97.07 \$59.89	\$44.16 \$8.90	\$36.61 \$10.99	\$39.17 \$12.29	\$38.82 \$15.56	\$31.78 \$9.90	\$32.49 \$11.59	\$31.65 \$9.77	\$39.19 \$13.38	\$35.12 \$11.21
Load Weighted Price **	\$164.06	\$114.77	\$100.81	\$45.19	\$38.05	\$41.14	\$41.18	\$33.28	\$34.31	\$32.89	\$40.57	\$36.33
RTC LBMP												
Price *	\$138.41	\$110.71	\$94.71	\$44.00	\$33.16	\$37.34	\$35.32	\$31.74	\$32.89	\$29.23	\$34.27	\$34.99
Standard Deviation	\$125.42	\$72.22	\$97.72	\$27.44	\$17.51	\$25.39	\$24.90	\$23.34	\$33.68	\$20.45	\$14.23	\$35.81
Load Weighted Price **	\$147.06	\$115.31	\$98.80	\$45.48	\$34.63	\$39.64	\$37.85	\$33.48	\$35.31	\$30.74	\$35.46	\$36.79
<u>REAL TIME LBMP</u>												
Price *	\$137.90	\$111.51	\$93.37	\$42.79	\$34.06	\$38.23	\$35.97	\$31.21	\$32.50	\$29.36	\$36.01	\$34.80
Standard Deviation	\$122.32	\$70.35	\$89.05	\$19.38	\$17.15	\$23.33	\$27.27	\$18.18	\$33.51	\$21.14	\$17.99	\$42.67
Load Weighted Price **	\$147.77	\$115.80	\$97.58	\$43.97	\$35.46	\$40.71	\$39.00	\$33.13	\$35.42	\$30.81	\$37.17	\$36.69
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496	470	442	394	413	433

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



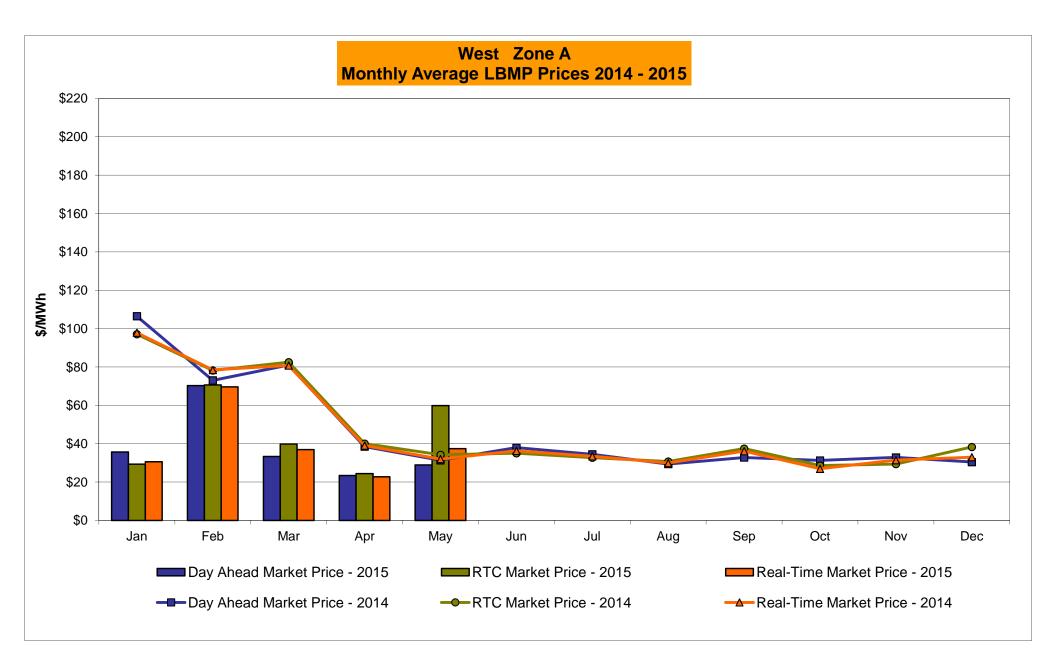
Market Mitigation and Analysis Prepared: 6/2/2015 3:14 PM

#### May 2015 Zonal LBMP Statistics for NYISO (\$/MWh)

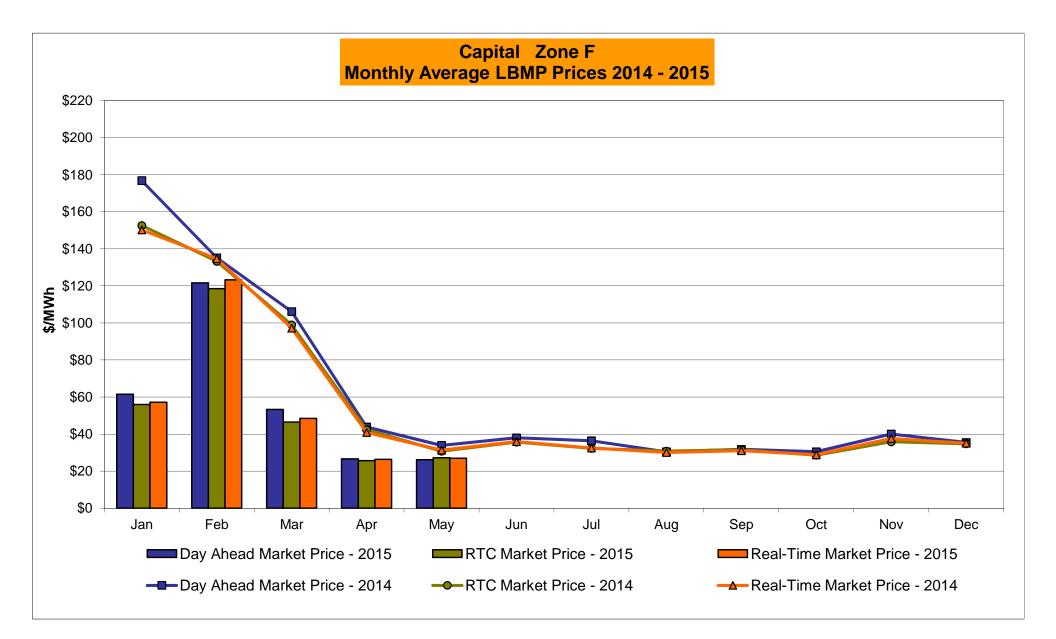
	WEST <u>Zone A</u>	GENESEE Zone B	NORTH <u>Zone D</u>	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD <u>Zone H</u>	DUNWOODIE <u>Zone I</u>	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
DAY AHEAD LBMP Unweighted Price *	28.91	24.19	20.42	25.66	25.35	26.23	29.47	29.94	29.99	30.35	35.24
0		-	-				-				
Standard Deviation	15.98	10.45	7.56	11.39	10.64	10.89	13.94	14.62	14.68	14.63	17.93
RTC LBMP											
Unweighted Price *	59.82	25.43	21.33	29.61	26.48	27.24	28.99	29.18	29.27	30.00	35.22
Standard Deviation	116.60	26.39	24.78	32.67	26.88	26.77	29.14	29.46	29.53	29.66	46.17
REAL TIME LBMP											
Unweighted Price *	37.45	24.83	21.10	27.48	26.11	26.99	28.76	28.96	29.06	29.98	36.70
Standard Deviation	69.15	24.92	20.62	30.41	25.57	25.95	28.54	28.99	29.10	29.43	47.38

	ONTARIO IESO Zone O	HYDRO QUEBEC (Wheel) Zone M	HYDRO QUEBEC (Import/Export) Zone M	PJM Zone P	NEW ENGLAND Zone N	CROSS SOUND CABLE <u>Controllable</u> Line	NORTHPORT- NORWALK <u>Controllable</u> <u>Line</u>	NEPTUNE <u>Controllable</u> <u>Line</u>	LINDEN VFT <u>Controllable</u> Line	HUDSON <u>Controllable</u> <u>Line</u>	Dennison <u>Controllable</u> Line
DAY AHEAD LBMP	20110-0		Zone M		Zonen	Line	Line	Line	Line		
Unweighted Price *	21.82	23.58	23.53	28.41	27.38	34.83	30.15	34.80	29.56	30.33	19.80
Standard Deviation	8.29	9.24	9.14	13.48	11.57	17.89	9.85	17.81	12.61	14.71	7.81
RTC LBMP											
Unweighted Price *	16.71	23.25	23.25	36.21	27.06	33.49	32.87	33.57	28.88	29.34	20.52
Standard Deviation	26.01	25.11	25.11	59.03	27.10	44.56	44.16	44.68	28.41	28.97	27.04
REAL TIME LBMP											
Unweighted Price *	21.70	22.84	22.84	31.90	26.54	35.84	30.80	35.28	28.91	29.28	20.96
Standard Deviation	19.69	21.57	21.57	53.57	24.73	47.05	51.42	45.82	25.75	26.42	20.12

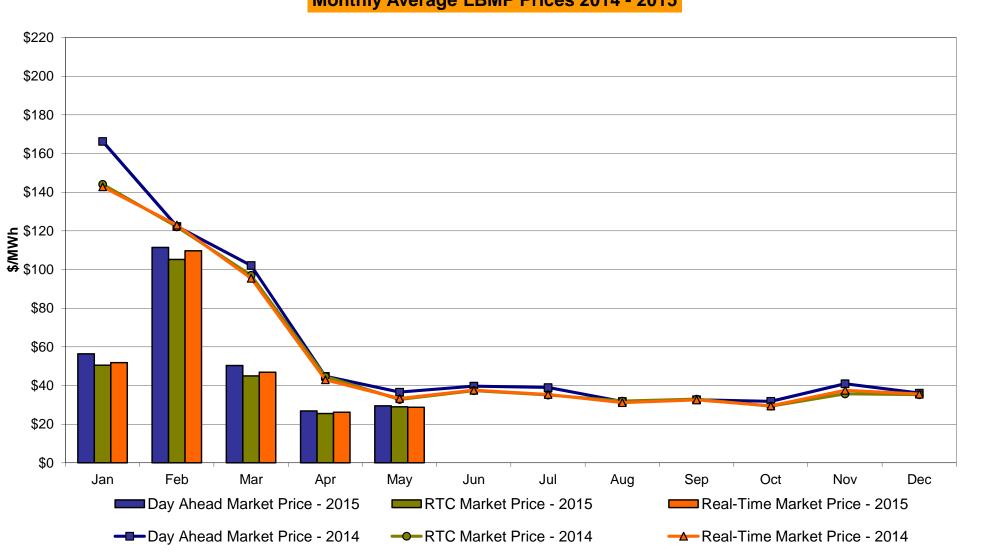
\* Straight LBMP averages



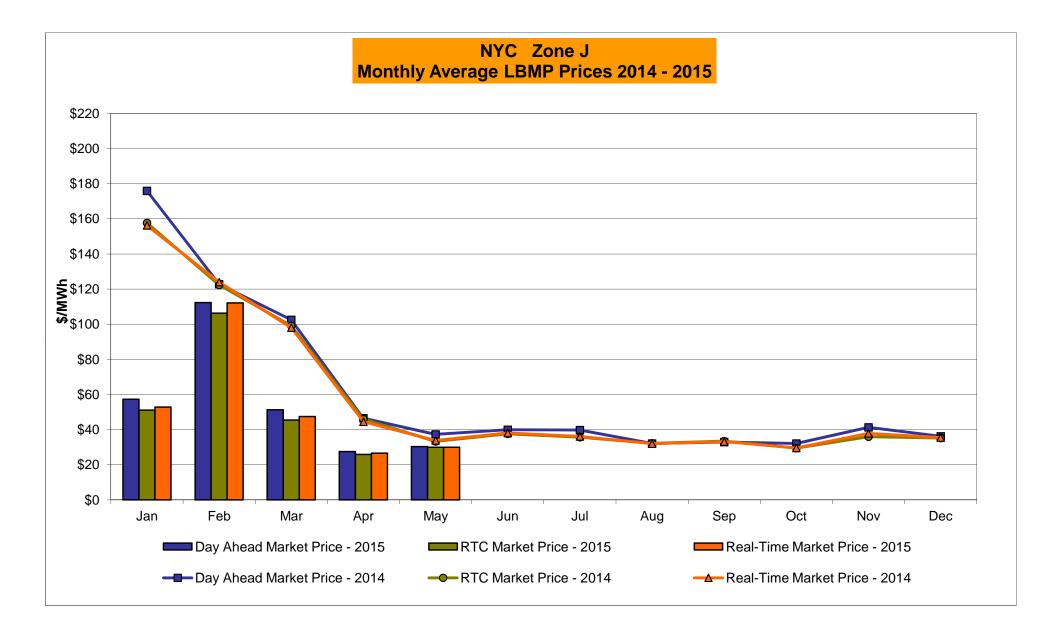
Market Mitigation and Analysis Prepared: 6/2/2015 4:21 PM



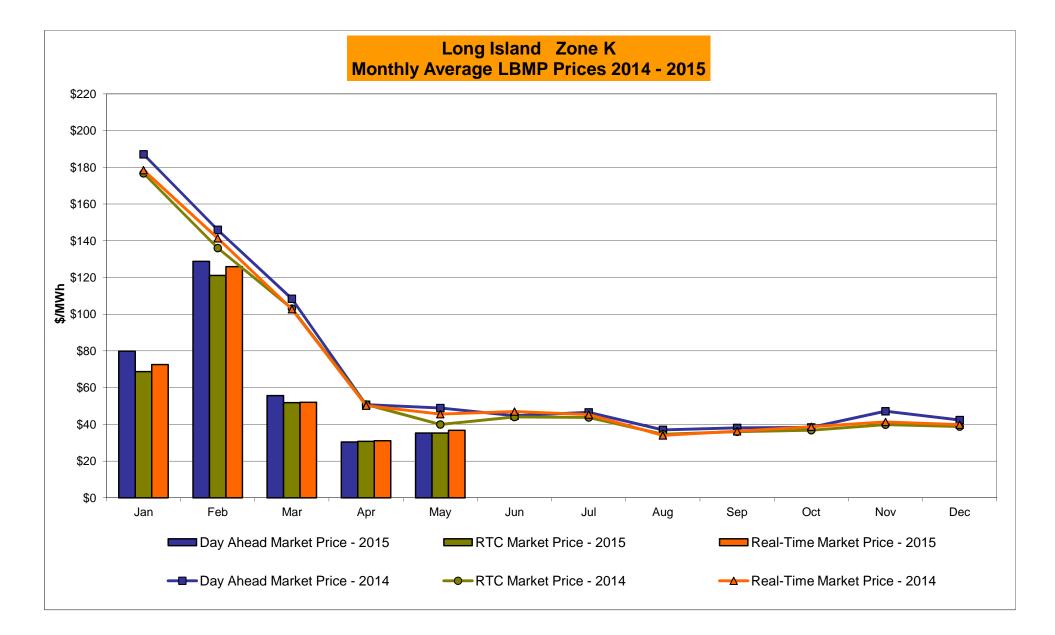
## Hudson Valley Zone G Monthly Average LBMP Prices 2014 - 2015



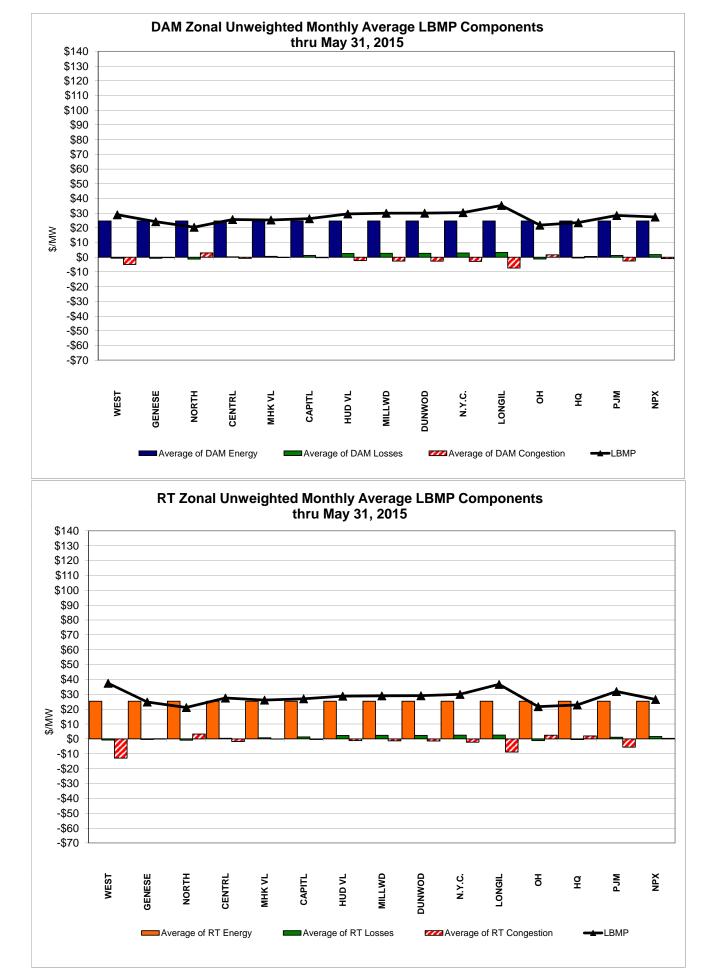
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Market Mitigation and Analysis Prepared:6/2/2015 4:22 PM

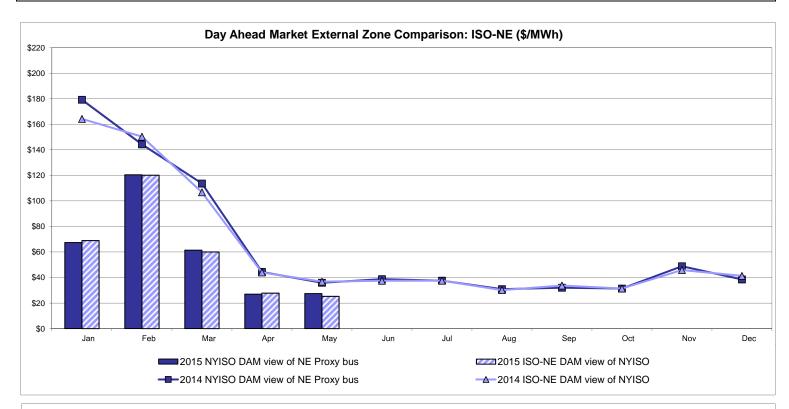


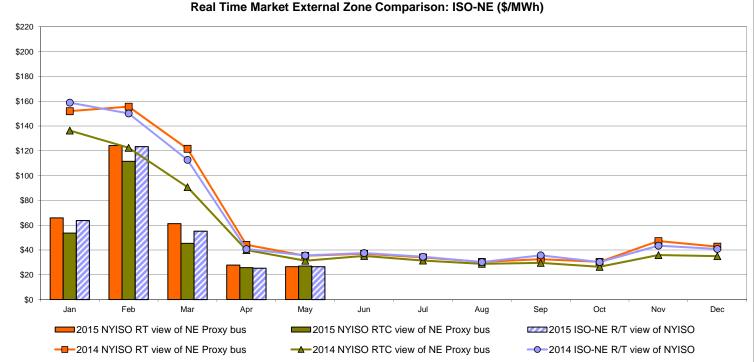
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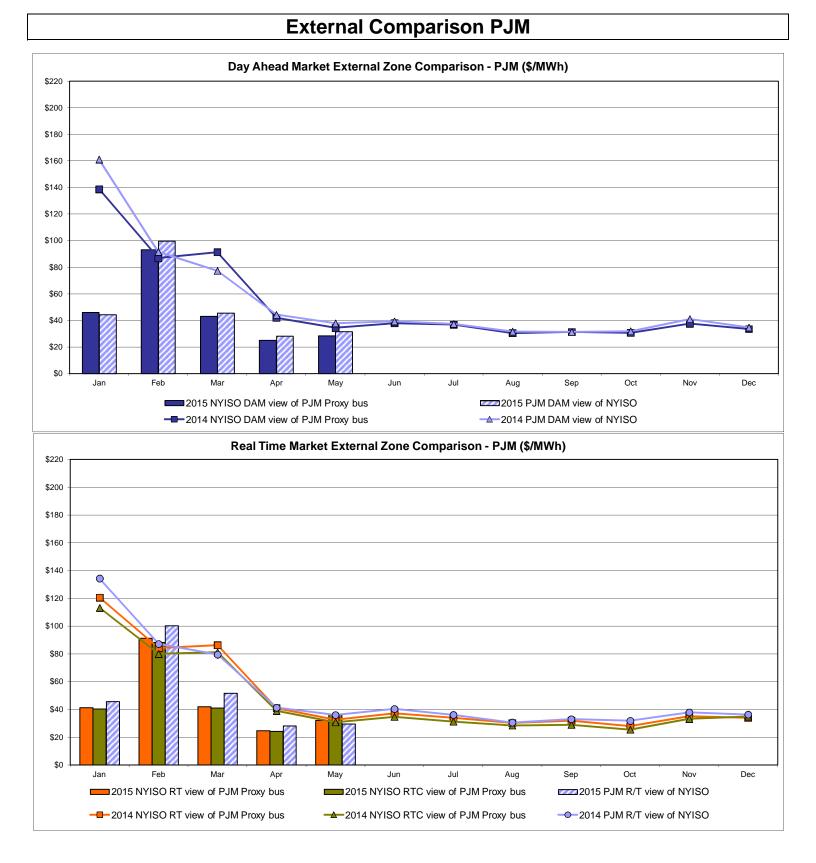


Market Mitigation and Analysis Prepared:6/2/2015 3:42 PM

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

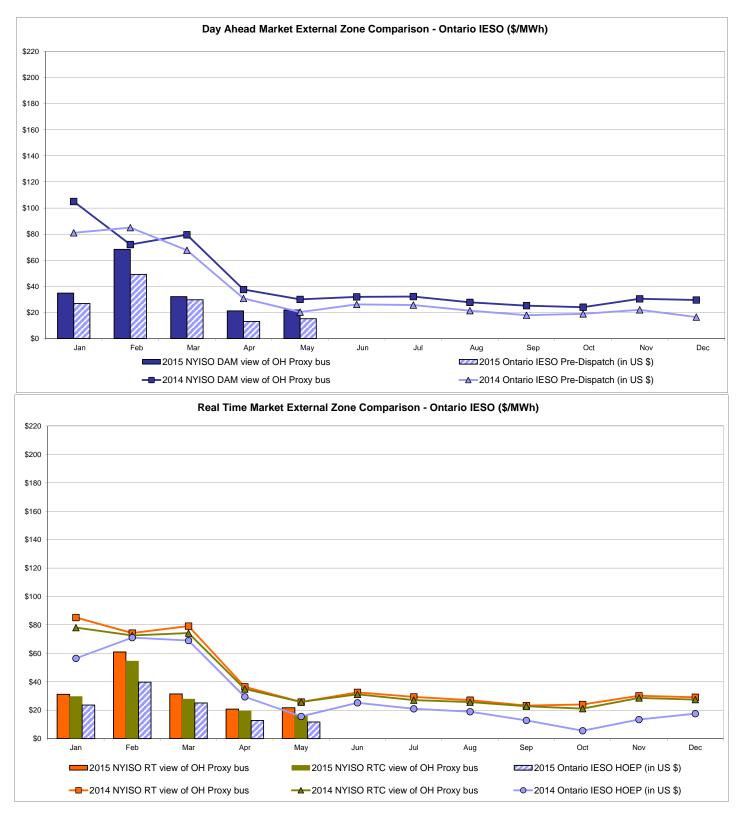




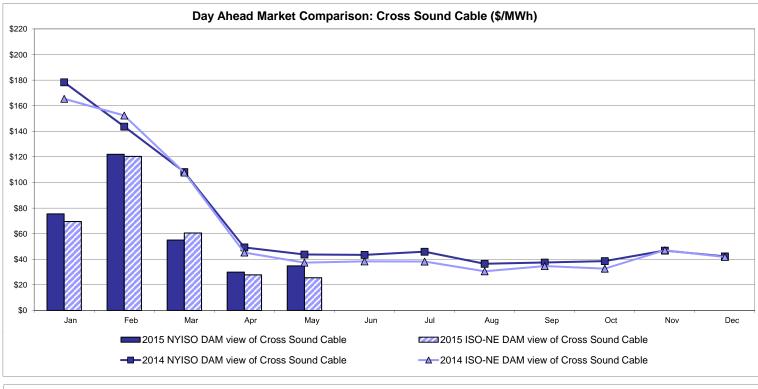


#### Market Mitigation and Analysis Prepared: 6/2/2015 4:16 PM

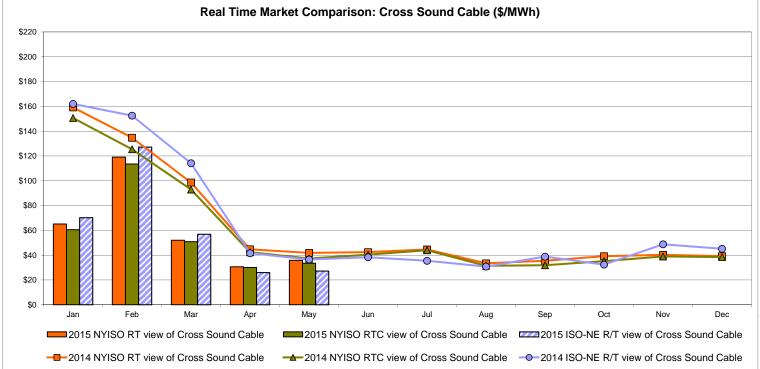
## **External Comparison Ontario IESO**



Notes: Exchange factor used for May 2015 was 0.821288 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



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

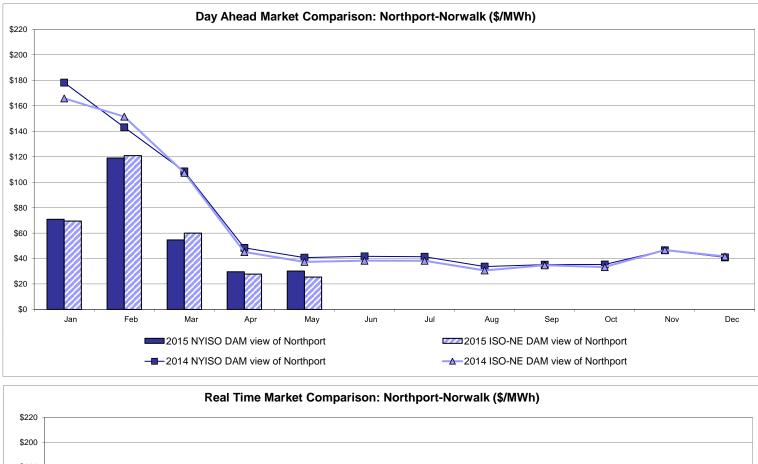


Note:

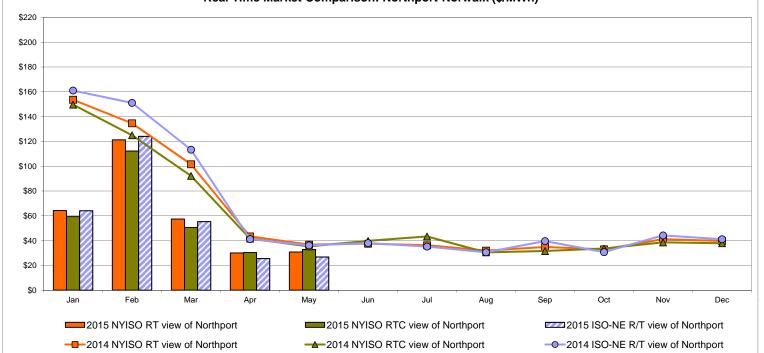
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



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

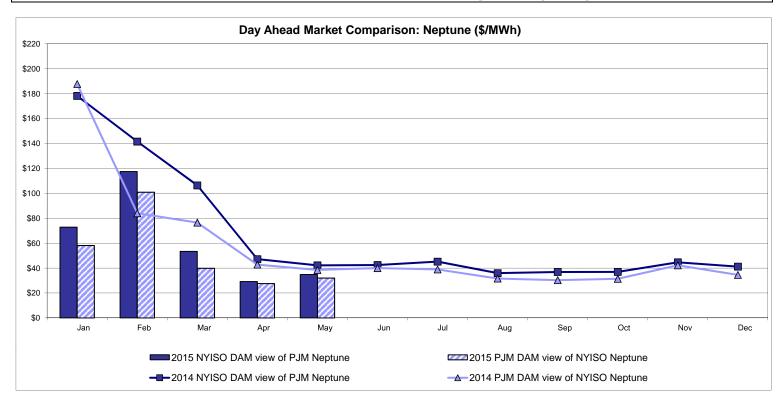


#### Note:

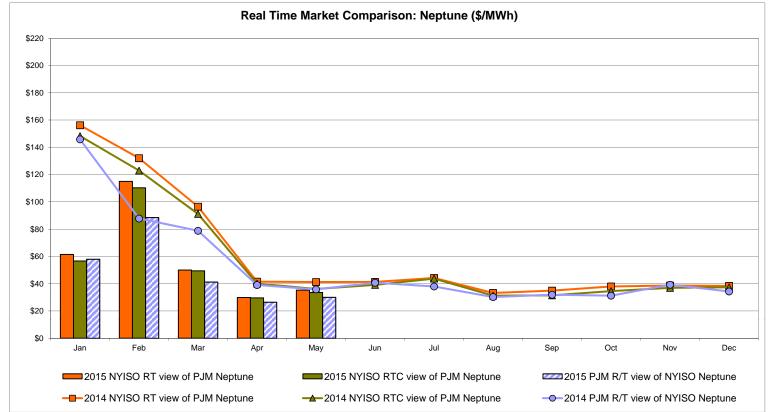
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

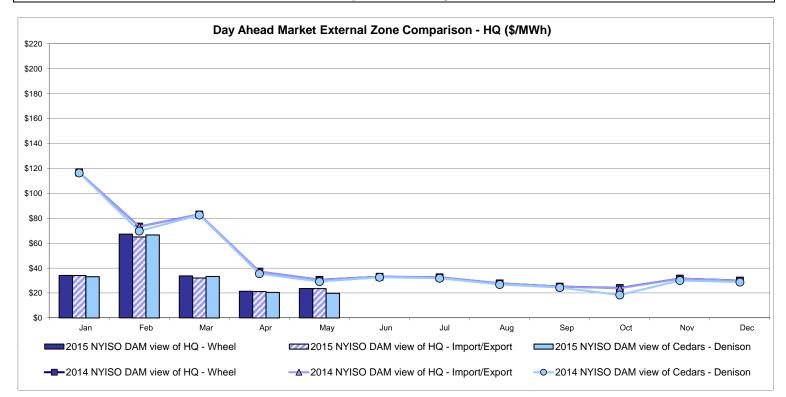
The DAM and R/T prices at the 1385 interface are used for NYISO.

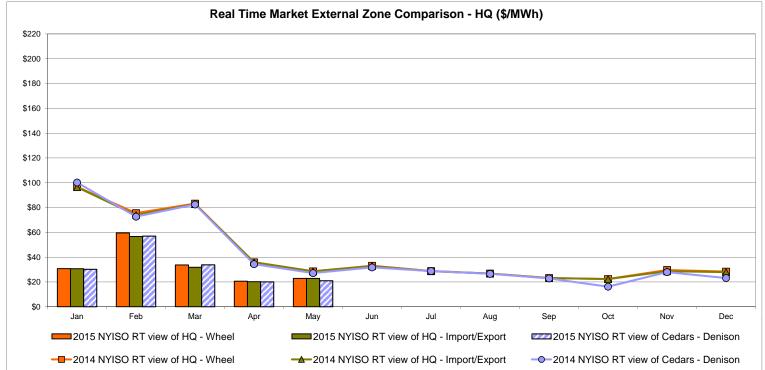


# External Controllable Line: Neptune (PJM)



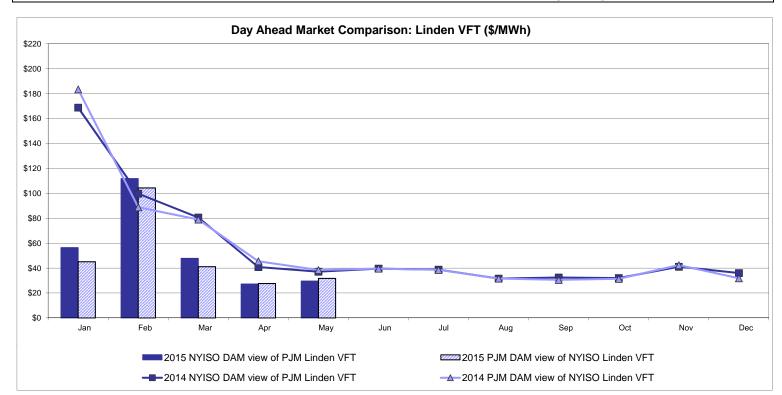
## **External Comparison Hydro-Quebec**



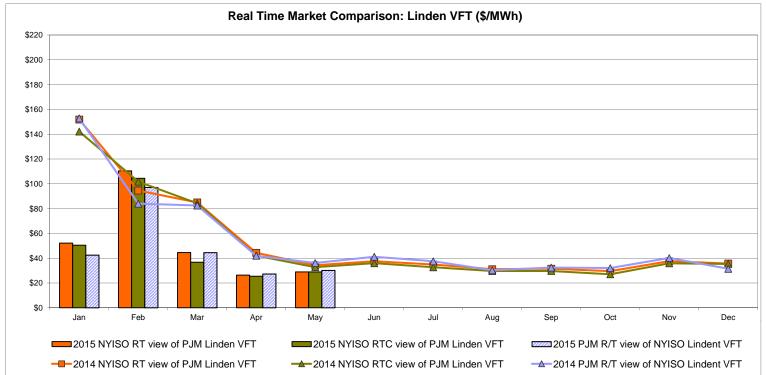


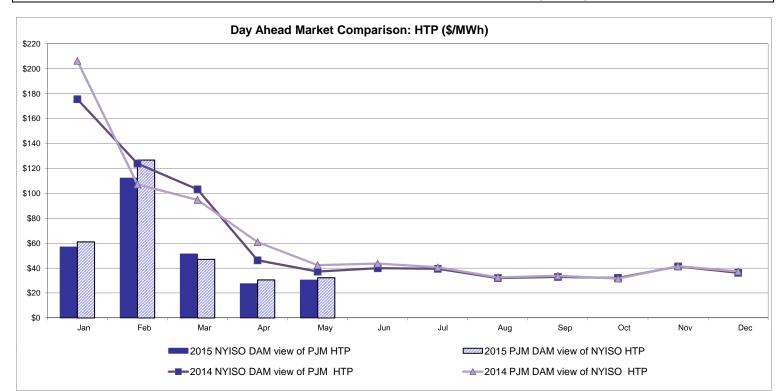
Note:

Hydro-Quebec Prices are unavailable.

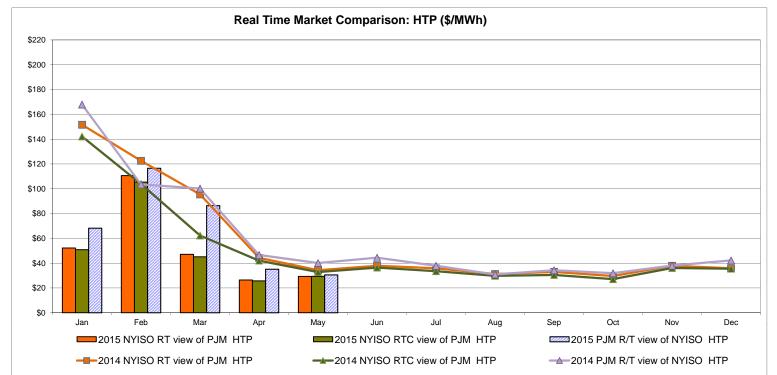


## External Controllable Line: Linden VFT (PJM)





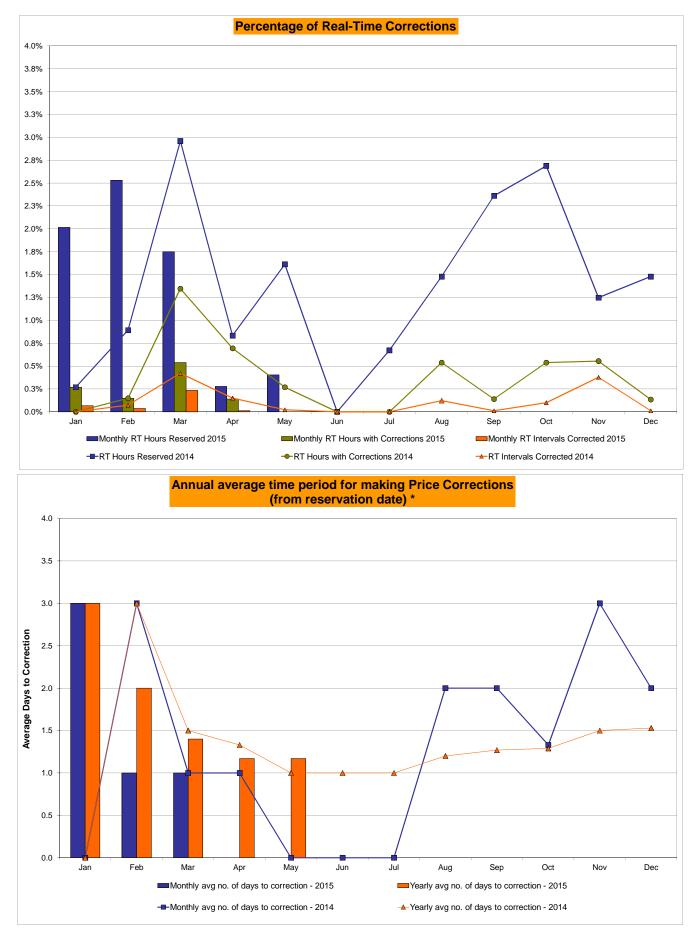
# External Controllable Line: Hudson (PJM)



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

2015 Hour Corrections		<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	December
Number of hours with corrections	in the month	2	1	4	1	0							
Number of hours	in the month	744	672	743	720	744							
% of hours with corrections	in the month	0.27%	0.15%	0.54%	0.14%	0.00%							
% of hours with corrections	year-to-date	0.27%	0.21%	0.32%	0.28%	0.22%							
Interval Corrections													
Number of intervals corrected	in the month	6	3	21	1	0							
Number of intervals % of intervals corrected	in the month in the month	9,066 0.07%	8,231 0.04%	9,005 0.23%	8,696 0.01%	9,032 0.00%							
% of intervals corrected	year-to-date	0.07%	0.05%	0.11%	0.09%	0.07%							
Hours Reserved	in the survey of the	45	47	10	0	0							
Number of hours reserved	in the month	15	17	13	2	3							
Number of hours	in the month	744	672	743	720	744							
% of hours reserved	in the month	2.02%	2.53%	1.75%	0.28%	0.40%							
% of hours reserved	year-to-date	2.02%	2.26%	2.08%	1.63%	1.38%							
Days to Correction *													
Avg. number of days to correction	in the month	3.00	1.00	1.00	0.00	0.00							
Avg. number of days to correction	year-to-date	3.00	2.00	1.40	1.17	1.17							
Days Without Corrections													
Days without corrections	in the month	30	27	28	29	31							
Days without corrections	year-to-date	30	57	85	114	145							
2014		January	February	March	April	May	June	July	August	September	October	November	December
2014 Hour Corrections		<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
	in the month	<u>January</u> 0	<u>February</u> 1	<u>March</u> 10	<u>April</u> 5	<u>May</u> 2	<u>June</u> 0	<u>July</u> 0	<u>August</u> 4	<u>September</u> 1	<u>October</u> 4	<u>November</u> 4	<u>December</u> 1
Hour Corrections	in the month in the month	<u>_</u> _	<u>.</u>										
Hour Corrections Number of hours with corrections		0	1	10	5	2	0	0	4	1	4	4	1
Hour Corrections Number of hours with corrections Number of hours	in the month	0 744	1 672	10 743	5 720	2 744	0 720	0 744	4 744	1 720	4 744	4 721	1 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	0 744 0.00%	1 672 0.15%	10 743 1.35%	5 720 0.69%	2 744 0.27%	0 720 0.00%	0 744 0.00%	4 744 0.54%	1 720 0.14%	4 744 0.54%	4 721 0.55%	1 744 0.13%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	0 744 0.00%	1 672 0.15%	10 743 1.35%	5 720 0.69%	2 744 0.27%	0 720 0.00%	0 744 0.00%	4 744 0.54%	1 720 0.14%	4 744 0.54%	4 721 0.55%	1 744 0.13%
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	0 744 0.00% 0.00%	1 672 0.15% 0.07%	10 743 1.35% 0.51%	5 720 0.69% 0.56%	2 744 0.27% 0.50%	0 720 0.00% 0.41%	0 744 0.00% 0.35%	4 744 0.54% 0.38%	1 720 0.14% 0.35%	4 744 0.54% 0.37%	4 721 0.55% 0.39%	1 744 0.13% 0.37%
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	0 744 0.00% 0.00%	1 672 0.15% 0.07%	10 743 1.35% 0.51% 38	5 720 0.69% 0.56%	2 744 0.27% 0.50%	0 720 0.00% 0.41%	0 744 0.00% 0.35%	4 744 0.54% 0.38%	1 720 0.14% 0.35% 1	4 744 0.54% <u>0.37%</u> 9	4 721 0.55% 0.39% 33	1 744 0.13% <u>0.37%</u> 1
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections <u>Number of intervals corrected</u> Number of intervals	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,232	1 672 0.15% 0.07% 6 8,205	10 743 1.35% 0.51% 38 9,023	5 720 0.69% 0.56% 13 8,720	2 744 0.27% 0.50% 2 9,030	0 720 0.00% 0.41% 0 8,729	0 744 0.00% 0.35% 0 8,999	4 744 0.54% <u>0.38%</u> 11 8,975	1 720 0.14% 0.35% 1 8,779	4 744 0.54% <u>0.37%</u> 9 9,026	4 721 0.55% 0.39% 33 8,763	1 744 0.13% <u>0.37%</u> 1 9,030
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	0 744 0.00% 0.00% 9,232 0.00%	1 672 0.15% 0.07% 6 8,205 0.07%	10 743 1.35% 0.51% 38 9,023 0.42%	5 720 0.69% 0.56% 13 8,720 0.15%	2 744 0.27% 0.50% 2 9,030 0.02%	0 720 0.00% 0.41% 0 8,729 0.00%	0 744 0.00% 0.35% 0 8,999 0.00%	4 744 0.54% 0.38% 11 8,975 0.12%	1 720 0.14% 0.35% 1 8,779 0.01%	4 744 0.54% 0.37% 9 9,026 0.10%	4 721 0.55% 0.39% 33 8,763 0.38%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01%
Hour Corrections         Number of hours with corrections         Number of hours         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         % of intervals corrected         % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,232 0.00%	1 672 0.15% 0.07% 6 8,205 0.07%	10 743 1.35% 0.51% 38 9,023 0.42%	5 720 0.69% 0.56% 13 8,720 0.15%	2 744 0.27% 0.50% 2 9,030 0.02%	0 720 0.00% 0.41% 0 8,729 0.00%	0 744 0.00% 0.35% 0 8,999 0.00%	4 744 0.54% 0.38% 11 8,975 0.12%	1 720 0.14% 0.35% 1 8,779 0.01%	4 744 0.54% 0.37% 9 9,026 0.10%	4 721 0.55% 0.39% 33 8,763 0.38%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected	in the month in the month year-to-date in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10%	4 744 0.54% 0.38% 11 8,975 0.12% 0.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12%	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% 0.11%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         Mumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67%	4 744 0.54% 0.38% 11 8,975 0.12% 0.12% 0.10% 11 744 1.48%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48%
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 corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 672	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721	1 744 0.13% <u>0.37%</u> 1 9,030 0.01% <u>0.11%</u> 11 744
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67%	4 744 0.54% 0.38% 11 8,975 0.12% 0.12% 0.10% 11 744 1.48%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48%
Hour Corrections         Number of hours with corrections         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56%	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39%	5 720 0.69% 0.56% 13 8,720 0.15% 0.16% 6 720 0.83% 1.25%	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32%	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11%	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04%	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10%	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24%	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38%	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38%
Hour Corrections         Number of hours with corrections         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.27% 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 672 0.89% 0.56% 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00
Hour Corrections         Number of hours with corrections         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.27% 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 672 0.89% 0.56% 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Number of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved         Avg. number of days to correction Avg. number of days to correction         Avg. Number of days to correction	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.27% 0.00 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 6 6 672 0.89% 0.56% 3.00 3.00	10 743 1.35% 0.51% 38 9,023 0.42% 0.17% 22 743 2.96% 1.39% 1.00 1.50	5 720 0.69% 0.56% 13 8,720 0.15% 0.15% 0.16% 6 720 0.83% 1.25% 1.00 1.33	2 744 0.27% 0.50% 2 9,030 0.02% 0.13% 12 744 1.61% 1.32% 0.00 1.00	0 720 0.00% 0.41% 0 8,729 0.00% 0.11% 0 720 0.00% 1.11% 0.00 1.00	0 744 0.00% 0.35% 0 8,999 0.00% 0.10% 5 744 0.67% 1.04% 0.00 1.00	4 744 0.54% 0.38% 11 8,975 0.12% 0.10% 11 744 1.48% 1.10% 2.00 1.20	1 720 0.14% 0.35% 1 8,779 0.01% 0.09% 17 720 2.36% 1.24% 2.00 1.27	4 744 0.54% 0.37% 9 9,026 0.10% 0.09% 20 744 2.69% 1.38% 1.33 1.29	4 721 0.55% 0.39% 33 8,763 0.38% 0.12% 9 721 1.25% 1.37% 3.00 1.50	1 744 0.13% 0.37% 1 9,030 0.01% 0.11% 11 744 1.48% 1.38% 2.00 1.53

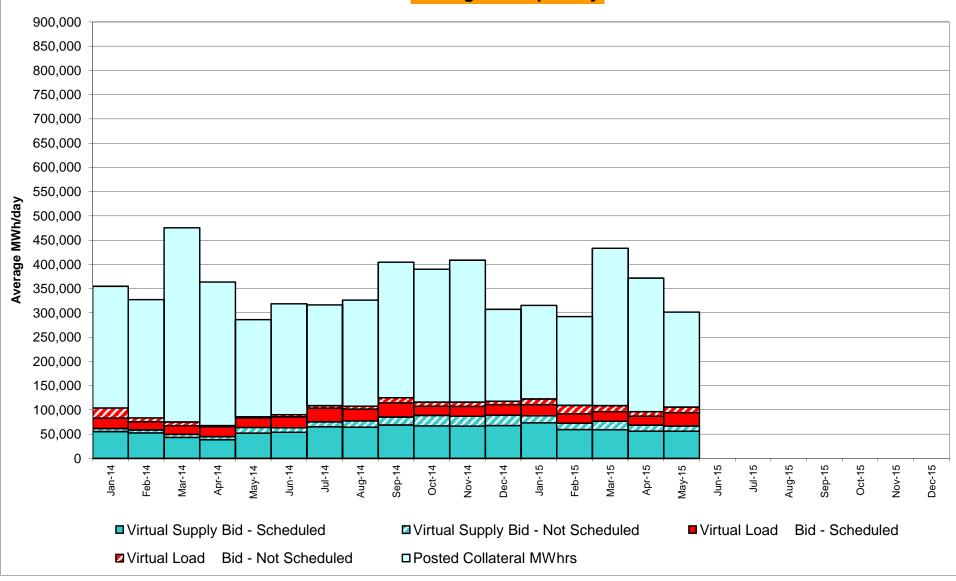
\* Calendar days from reservation date.



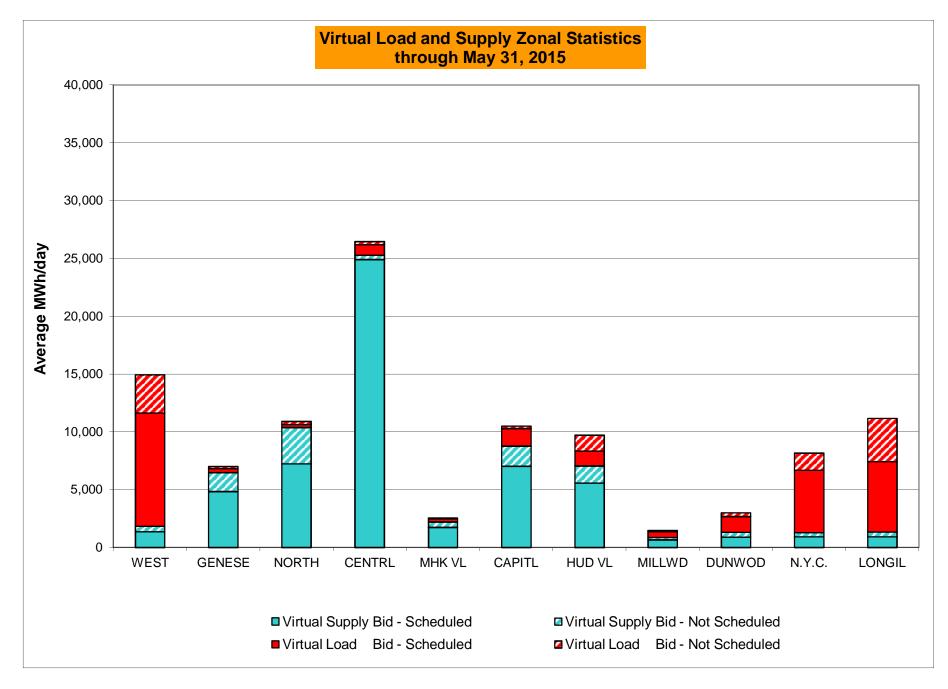
\* Calendar days from reservation date.

Market Mitigation and Analysis Prepared: 6/8/2015 10:53 AM

#### NYISO Virtual Trading Average MWh per day



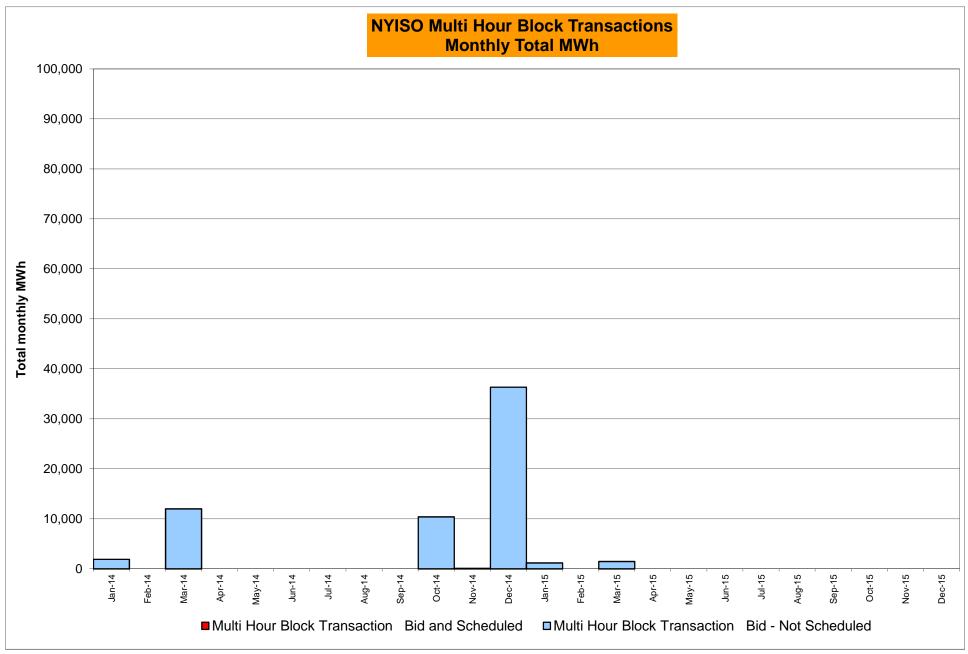
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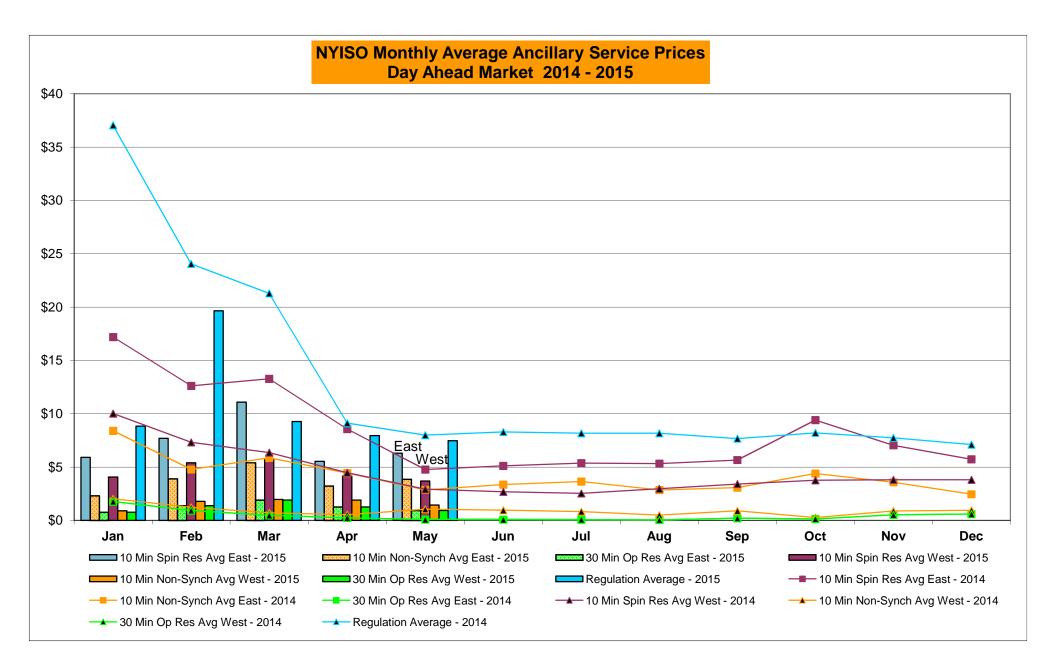
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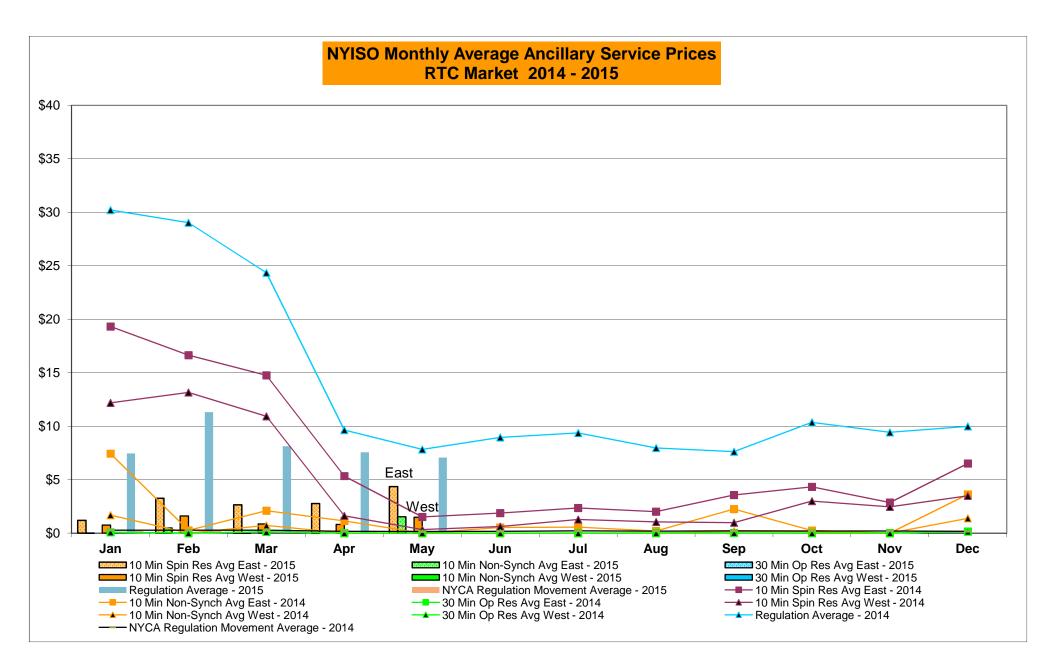
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2015

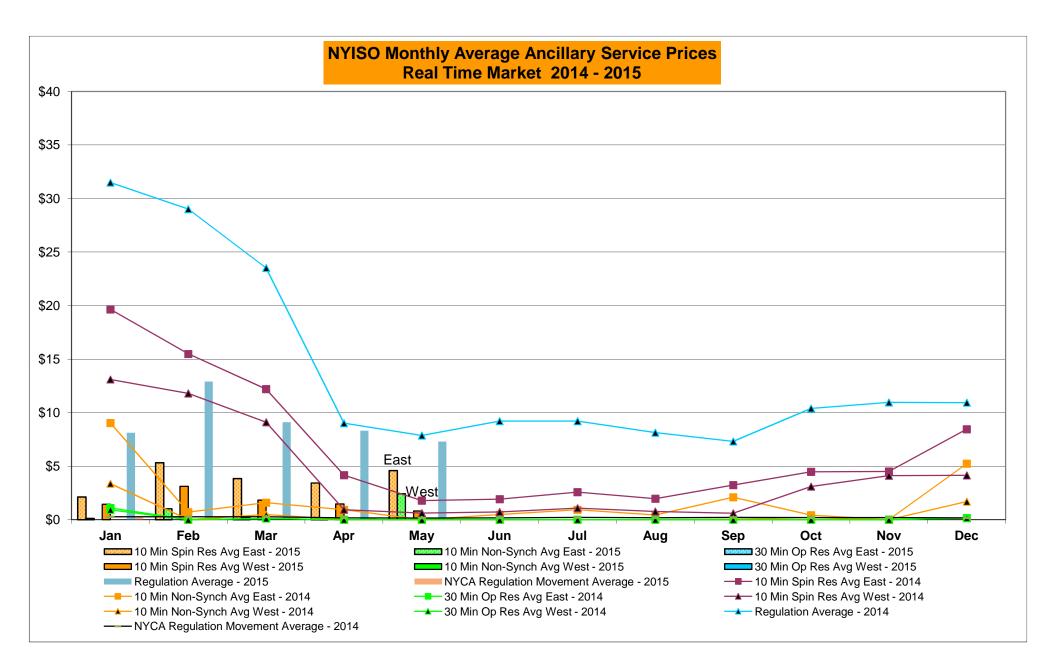
		Virtual L		Virtual S				Virtual L		Virtual Su				Virtual L	oad Bid	Virtual Su	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
WEST	Jan-15		977	3,837	688	MHK VL	Jan-15		185	1,757	1,021	DUNWOD	Jan-15		444	831	166
	Feb-15	,	1,570	3,288	936		Feb-15		790	1,446			Feb-15			725	156
	Mar-15		1,992	3,185	1,223		Mar-15		458	2,120			Mar-15			1,224	536
	Apr-15		1,797	1,790	419		Apr-15		226	3,094			Apr-15			1,517	366
	May-15	9,778	3,320	1,381	465		May-15	248	102	1,746	482		May-15			904	400
	Jun-15						Jun-15						Jun-15	5			
	Jul-15						Jul-15						Jul-15	5			
	Aug-15						Aug-15						Aug-15	5			
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15	i			
	Dec-15						Dec-15						Dec-15	5			
GENESE	Jan-15	444	147	9,467	1,422	CAPITL	Jan-15	1,816	1,292	9,400	1,563	N.Y.C.	Jan-15	3,367	1,572	887	2,429
	Feb-15		347	7,477	1,425		Feb-15		3,267	6,354	2,035		Feb-15		2,375	658	690
	Mar-15		350	7,559	2,735		Mar-15	2,234	2,029	6,772	2,411		Mar-15	2,687	1,133	894	1,593
	Apr-15		254	4,771	1,991		Apr-15	1,558	991	7,368	2,215		Apr-15	2,470	377	808	500
	May-15	349	167	4,831	1,643		May-15	1,518	201	7,032	1,751		May-15	5,397	1,487	918	367
	Jun-15						Jun-15						Jun-15	5			
	Jul-15						Jul-15						Jul-15	5			
	Aug-15						Aug-15						Aug-15	5			
	Sep-15						Sep-15						Sep-15	5			
	Oct-15						Oct-15						Oct-15	i			
	Nov-15						Nov-15						Nov-15	i			
	Dec-15						Dec-15						Dec-15	5			
NORTH	Jan-15	537	300	7,590	2,868	HUD VL	Jan-15	1,006	1,747	4,703	2,133	LONGIL	Jan-15	5,510	3,925	547	1,487
	Feb-15	274	423	7,361	1,898		Feb-15	769	2,147	2,841	2,800		Feb-15	4,383	3,985	613	1,722
	Mar-15	422	572	6,213	2,540		Mar-15	747	1,578	5,045	3,272		Mar-15	4,639	2,844	464	1,719
	Apr-15		366	8,249	3,243		Apr-15	1,180	1,056	6,875			Apr-15	4,399	3,064	760	678
	May-15	263	255	7,237	3,146		May-15	1,267	1,372	5,580	1,488		May-15	6,102	3,728	936	394
	Jun-15						Jun-15						Jun-15				
	Jul-15						Jul-15						Jul-15				
	Aug-15						Aug-15						Aug-15				
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15					_	Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15	5			
CENTRL	Jan-15	2,414	939	33,426	776	MILLWD	Jan-15	418	244	716	192	NYISO	Jan-15	22,958	11,774	73,161	14,746
	Feb-15	2,306	1,265	28,050	579		Feb-15	562	674	627	186		Feb-15	19,386	17,506	59,440	13,238
	Mar-15	1,168	538	24,644	587		Mar-15	377	389	947	287		Mar-15	19,769	12,449	59,066	17,619
	Apr-15	927	311	20,024	588		Apr-15	174	239	979	298		Apr-15	18,550	8,979	56,234	12,458
	May-15		249	24,901	400		May-15		126	668	200		May-15	27,711	11,315	56,132	10,736
	Jun-15						Jun-15						Jun-15	6			
	Jul-15						Jul-15						Jul-15	5			
	Aug-15						Aug-15						Aug-15	;			
	Sep-15						Sep-15						Sep-15	5			
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15					1	Dec-15						Dec-15	5			



Market Mitigation and Analysis Prepared: 6/2/2015 4:12 PM

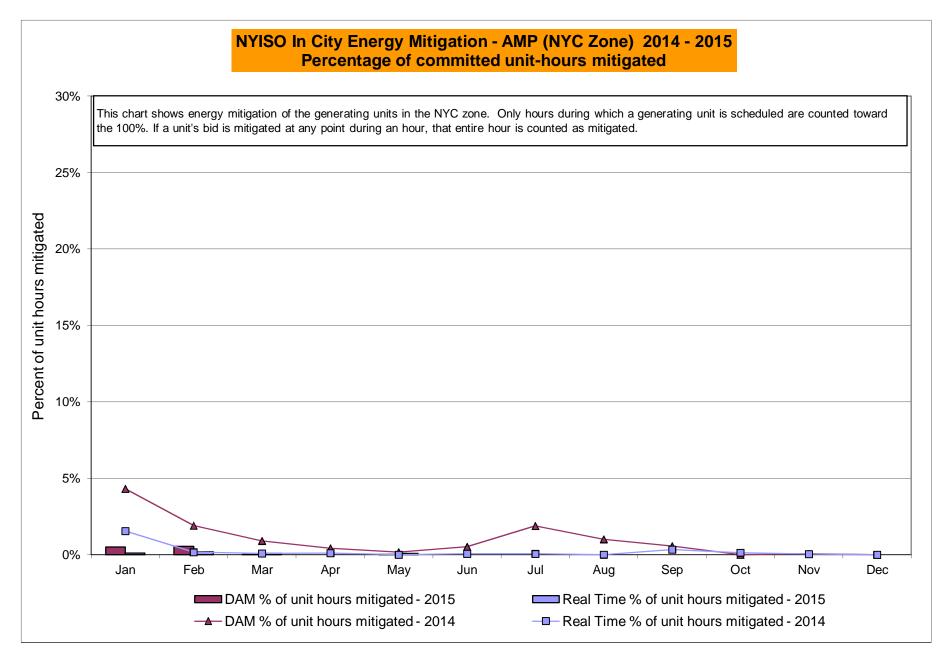


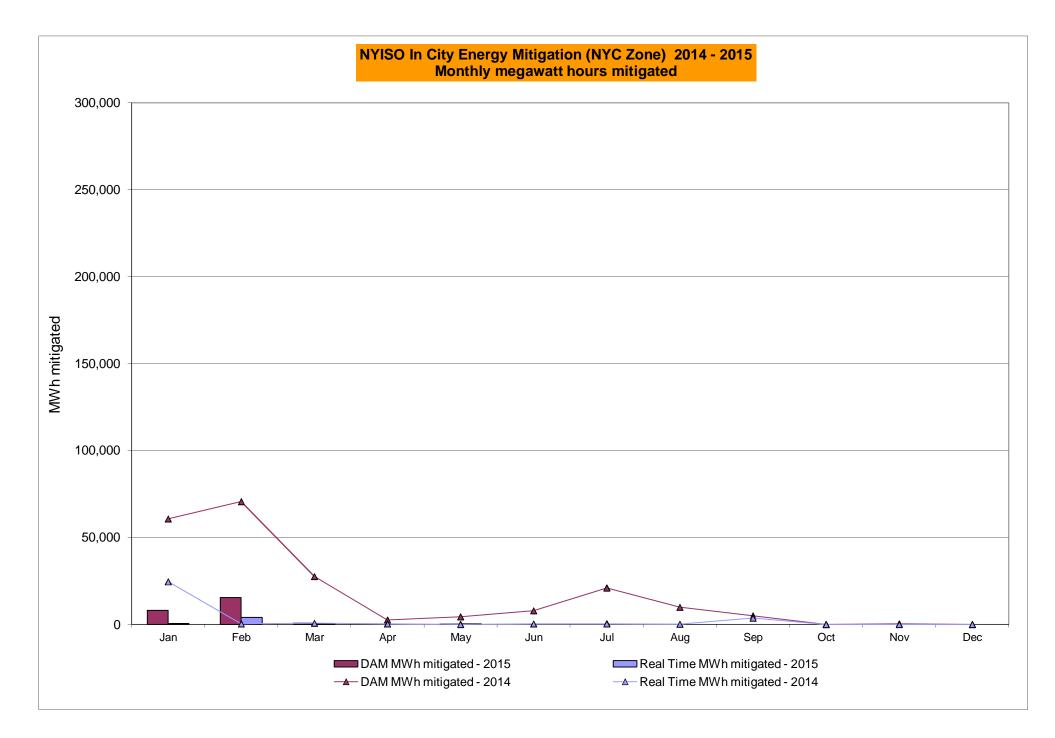


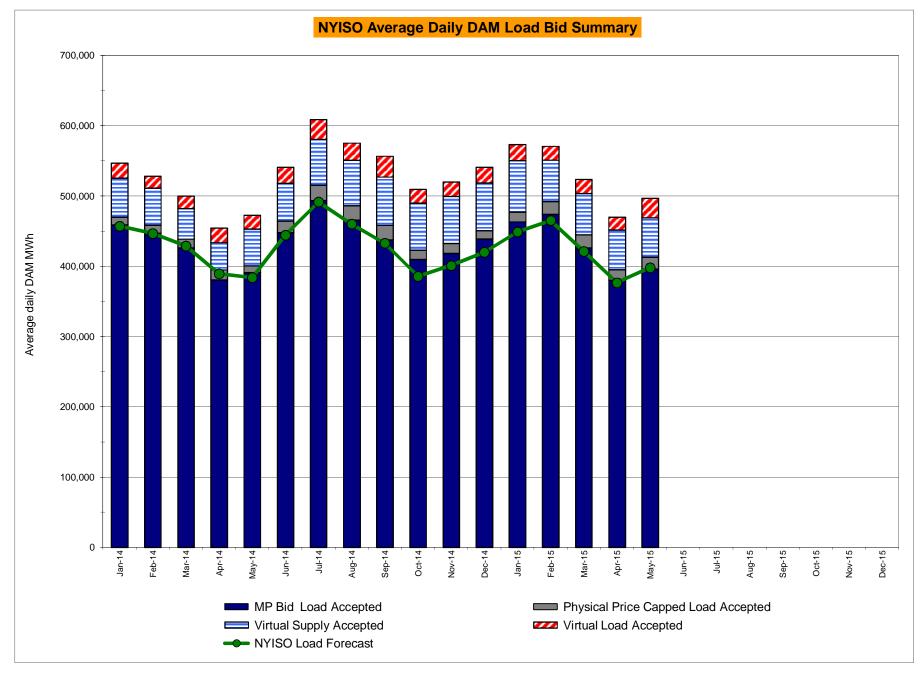


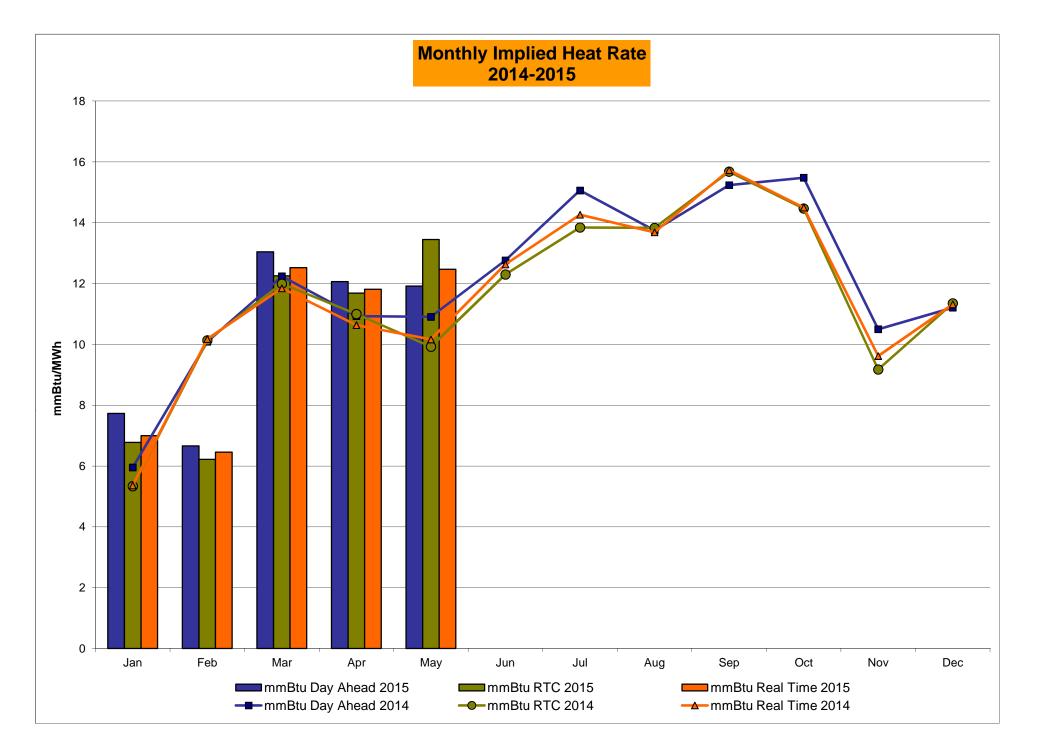
#### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

Day Ahead Market           10 Min Spin East         5.92         7.69         11.09         5.53         6.31           10 Min Spin West         4.07         5.40         5.68         4.16         3.69           10 Min Non Synch East         2.30         3.89         5.40         3.22         3.84           10 Min Non Synch West         0.90         1.79         1.97         1.91         1.45	<u>ber</u> <u>December</u>
10 Min Spin West         4.07         5.40         5.68         4.16         3.69           10 Min Non Synch East         2.30         3.89         5.40         3.22         3.84	
10 Min Non Synch East 2.30 3.89 5.40 3.22 3.84	
30 Min East 0.77 1.38 1.91 1.26 0.93	
30 Min West 0.77 1.38 1.91 1.26 0.93	
Regulation 8.84 19.65 9.27 7.94 7.48	
RTC Market	
10 Min Spin East 1.20 3.27 2.64 2.77 4.36	
10 Min Spin West 0.74 1.61 0.86 0.81 1.48	
10 Min Non Synch East 0.01 0.48 0.01 0.00 1.54	
10 Min Non Synch West 0.00 0.00 0.00 0.00 0.00	
30 Min East 0.00 0.00 0.00 0.00 0.00	
30 Min West 0.00 0.00 0.00 0.00 0.00	
Regulation 7.45 11.32 8.13 7.56 7.06	
NYCA Regulation Movement 0.21 0.21 0.16 0.22 0.16	
-	
Real Time Market	
10 Min Spin East 2.12 5.31 3.84 3.44 4.59	
10 Min Spin West 1.44 3.11 1.83 1.46 0.81	
10 Min Non Synch East 0.12 1.03 0.17 0.01 2.41	
10 Min Non Synch West 0.00 0.00 0.00 0.00 0.00	
30 Min East 0.00 0.00 0.00 0.00 0.00	
30 Min West 0.00 0.00 0.00 0.00 0.00	
Regulation 8.12 12.91 9.11 8.32 7.30	
NYCA Regulation Movement 0.20 0.21 0.17 0.15 0.16	
	ber December
2014 January February March April May June July August September October Nove	nber December
2014 January February March April May June July August September October Nove Day Ahead Market	
2014     January     February     March     April     May     June     July     August     September     October     Nove       Day Ahead Market     10 Min Spin East     17.19     12.62     13.27     8.57     4.77     5.11     5.37     5.33     5.66     9.41	7.04 5.73
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76	7.045.733.823.82
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40	7.045.733.823.823.582.45
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin Kest         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27	7.045.733.823.823.582.450.890.95
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14	7.04     5.73       3.82     3.82       3.58     2.45       0.89     0.95       0.53     0.60
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin Kest         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14	7.04         5.73           3.82         3.82           3.58         2.45           0.89         0.95           0.53         0.60
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin Kest         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch Kest         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         37.05	7.04     5.73       3.82     3.82       3.58     2.45       0.89     0.95       0.53     0.60
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin Kest         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch Kest         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         37.05	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch Kest         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           Regulation         37.05	7.04     5.73       3.82     3.82       3.58     2.45       0.89     0.95       0.53     0.60       0.53     0.60       7.74     7.12       2.86     6.51
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin Kest         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch Kest         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         37.05	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch Kest         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           Regulation         37.05	7.04     5.73       3.82     3.82       3.58     2.45       0.89     0.95       0.53     0.60       0.53     0.60       7.74     7.12       2.86     6.51
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin East         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.21         0.14           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.04         0.21         0.14           Regulation         37.05         24.05         21.29	7.04     5.73       3.82     3.82       3.58     2.45       0.89     0.95       0.53     0.60       0.53     0.60       7.74     7.12       2.86     6.51       2.46     3.48
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin East         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           Regulation         3.705	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin Vest         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min Spin East         1.77	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       1.39
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.04         0.21         0.14           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           Regulation         37.05 <td>7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       1.39         0.00       0.15</td>	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       1.39         0.00       0.15
2014         January         February         March         April         May         June         July         August         September         October         Nove           10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.80         0.88         0.04         0.21         0.14           Regulation         37.05         24.05         2.12         9.12 </td <td>7.04         5.73           3.82         3.82           3.58         2.45           0.89         0.95           0.53         0.60           0.53         0.60           7.74         7.12           2.86         6.51           2.46         3.48           0.00         3.62           0.00         1.39           0.00         0.15</td>	7.04         5.73           3.82         3.82           3.58         2.45           0.89         0.95           0.53         0.60           0.53         0.60           7.74         7.12           2.86         6.51           2.46         3.48           0.00         3.62           0.00         1.39           0.00         0.15
2014         January         February         March         April         May         June         July         August         September         October         Nove           10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           agulation         37.05         24.05         21.29         9.12         7.99         8.30         8.18         8.18         7.67         8.21           10 Min Spin East         19.32         16.64         14.76 <t< td=""><td>7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       1.39         0.00       0.15         0.00       0.15         0.42       9.99</td></t<>	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       1.39         0.00       0.15         0.00       0.15         0.42       9.99
2014         January         February         March         April         May         June         July         August         September         October         Nove           10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.66         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.21         0.14           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min East         1.77         0.93         0.47 <td>7.04       5.73         3.82       3.82         3.58       2.45         0.59       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       0.15         0.00       0.15         0.00       0.15         0.42       9.99         0.20       0.17</td>	7.04       5.73         3.82       3.82         3.58       2.45         0.59       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       0.15         0.00       0.15         0.00       0.15         0.42       9.99         0.20       0.17
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       0.15         0.00       0.15         0.00       0.15         0.20       0.17
2014         January         February         March         April         May         June         July         August         September         October         Nove           10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin East         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch Kast         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min Kest         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           Begulation         3.05         2.1.02         1.1.27	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       1.39         0.00       0.15         0.42       9.99         0.20       0.17         4.51       8.45         4.12       4.14
2014         January         February         March         April         May         June         July         August         September         October         Nove           10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.86         3.37         3.65         2.85         3.08         4.40           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           10 Min Spin East         19.32         16.64	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       0.15         0.00       0.15         0.00       0.15         0.00       0.15         0.42       9.99         0.20       0.17         4.51       8.45         4.12       4.14         0.00       5.23
2014         January         February         March         April         May         June         July         August         September         October         Nove           Day Ahead Market         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin Kest         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch Kest         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min Son Synch West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min Kest         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           10 Min Spin East         17.43         0.26         2	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       3.62         0.00       1.39         0.00       0.15         0.00       0.15         0.00       0.15         0.20       0.17         4.51       8.45         4.12       4.14         0.00       5.23         0.00       1.69
2014         January         February         March         April         May         June         June         July         August         September         October         Nove           10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch West         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.27           30 Min East         1.77         0.93         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min West         1.77         0.93         0.47         0.24         0.09         0.88         0.80         0.04         0.21         0.14           30 Min Spin East         19.32         16.64         14.76         5.34         1.52         1.87         2.35         2.00         3.57         4.39           10 Min Spin West         12.18         13.16         10	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       1.39         0.00       0.15         0.00       0.15         0.20       0.17         4.51       8.45         4.12       4.14         0.00       1.69         0.00       1.69
2014         January         February         March         April         May         June         July         August         September         October         Nove           10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch Kest         2.02         1.23         0.70         0.55         1.06         0.96         0.83         0.49         0.91         0.44         0.21         0.14           30 Min East         1.77         0.33         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           Regulation         37.05         24.05         21.29         9.12         7.99         8.30         8.18         8.18         7.67         8.21           10 Min Spin East         19.32         16.64         14.76         5.34         1.52         1.87         2.35         2.00         3.57         4.32           10 Min Spin East         19	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       1.39         0.00       0.15         0.00       0.15         0.20       0.17         4.51       8.45         4.12       4.14         0.00       1.69         0.00       0.16         0.00       0.16
2014         January         February         March         April         May         June         July         August         September         October         Nove           10 Min Spin East         17.19         12.62         13.27         8.57         4.77         5.11         5.37         5.33         5.66         9.41           10 Min Spin West         10.02         7.32         6.36         4.47         2.92         2.69         2.54         2.96         3.41         3.76           10 Min Non Synch East         8.40         4.78         5.86         4.44         2.66         3.37         3.65         2.85         3.08         4.40           30 Min East         1.77         0.33         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           30 Min East         1.77         0.33         0.47         0.24         0.09         0.08         0.08         0.04         0.21         0.14           Regulation         37.05         24.05         21.29         9.12         7.99         8.30         8.18         8.18         7.67         8.21           10 Min Spin East         19.32         16.64         14.76 <td>7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       1.39         0.00       0.15         0.00       0.15         0.20       0.17         4.51       8.45         4.12       4.14         0.00       1.69         0.00       1.69</td>	7.04       5.73         3.82       3.82         3.58       2.45         0.89       0.95         0.53       0.60         0.53       0.60         7.74       7.12         2.86       6.51         2.46       3.48         0.00       1.39         0.00       0.15         0.00       0.15         0.20       0.17         4.51       8.45         4.12       4.14         0.00       1.69         0.00       1.69

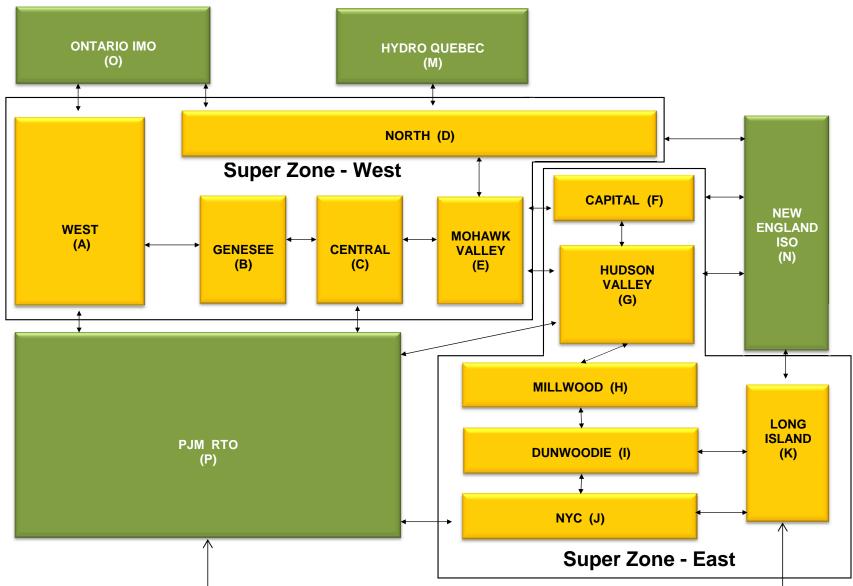








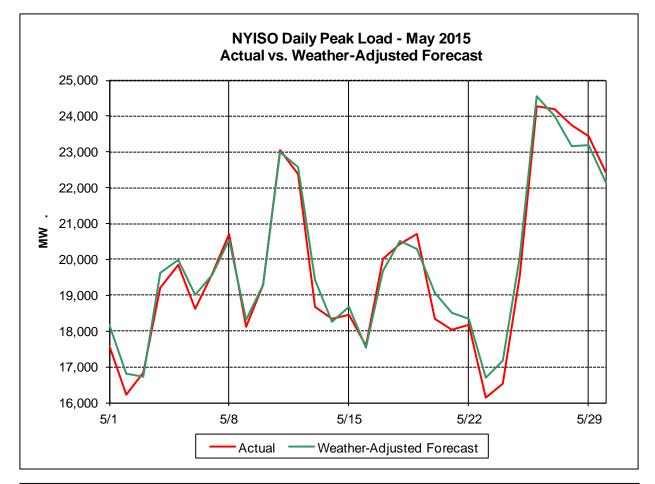
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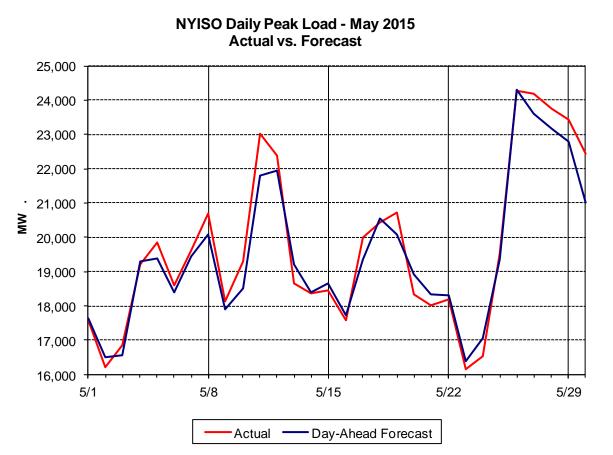


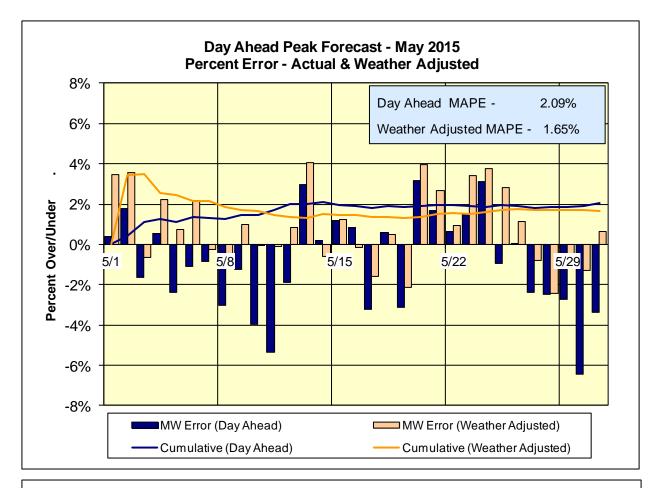
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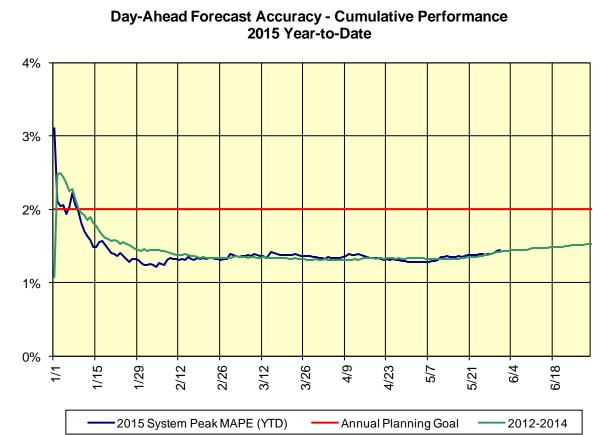
#### Billing Codes for Chart 4-C

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









## Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – May 2015

Filing Date	Filing Summary	Docket	Order Date	Order Summary
07/10/2013	NYISO/NYTOs joint interregional (i.e., PJM, ISO-NE and NYISO) compliance filing re: Order No. 1000 directives	ER13-1942-000	05/14/2015	FERC Order partially accepted the compliance filing and directed, a further compliance filing within 60 days (i.e., 07/13/2015)
12/01/2014	NYISO compliance filing re: OATT revisions to permit information sharing with interstate natural gas pipelines, intrastate natural gas pipelines and natural gas local distribution companies	ER14-2895-001	05/19/2015	FERC order accepted the compliance filing effective 11/17/2014, as requested
12/01/2014	NYISO filing re: request for waiver of certain NAESB version 003 Standards (Business Practices and Communication Protocols) and Smart Grid Standards (WEQ-016 through WEQ-020)	ER15-550-000	05/19/2015	FERC order granted the requested waiver and directed a compliance filing to list all waivers and applicable orders in the tariff
03/13/2015	NYISO 205 filing re: additional capacity resource interconnection service	ER15-1281-000	05/06/2015	FERC order accepted revisions effective 05/02/2015, as requested, subject to pending tariff revisions in 3 other proceedings ultimately being accepted
05/12/2015	NYISO confidential filing re: project tracking report 2015 Q2	PSC Matter No. 10-02007		
05/13/2015	NYISO confidential filing re: reliability commitment data report for the three-month period ending 04/30/15	PSC Matter No. 10-02007		
05/13/2015	NYISO filing re: answer to comments and protests of the 04/13/15 compliance filing concerning a competitive entry exemption under the buyer-side capacity market power mitigation measures	ER15-1498-000		
05/13/2015	NYISO filing to the NYS Department of Environmental Conservation re: comments on the DEC options for allocating allowances under the Cross-State Air Pollution Rule			
05/14/2015	NYISO filing on behalf of National Grid re: interconnection agreement (SA No. 2211) between NiMo and the Village of Skaneateles	ER15-1709-000		
05/15/2015	NYISO filing re: request for an extension of time until 10/19/15 to make the reliability must run compliance filing	EL15-37-000		

05/18/2015	NYISO filing of comments re: NYPSC Notice Seeking Supplemental Comments regarding transmission capability in Western New York	PSC Case No. 14-E-0454	
05/18/2015	NYISO/NYTO joint compliance filing re: Order 1000 regional transmission planning requirements and the 04/16/2015 Order on Rehearing and Compliance	ER13-102-007	
05/19/2015	NYISO filing on behalf of National Grid re: amended and restated interconnection agreement (SA No. 337) between NiMo and General Mills Operations, LLC	ER15-1742-000	)
05/20/2015	NYISO filing re: eight executed non-conforming Interconnection Facilities Study Agreements for certain projects entering the NYISO's Class Year 2015 Interconnection Facilities Study	ER15-1757-000	)
05/20/2015	NYISO filing re: post-workshop comments concerning the calculation of available transfer capability ("ATC") and development of ATC standards for wholesale electric transmission services	AD15-5-000	
05/21/2015	NYISO filing of corrected comments re: NYPSC <i>Notice</i> <i>Seeking Supplemental Comments</i> regarding transmission capability in Western New York	PSC Case No. 14-E-0454	
05/29/2015	NYISO filing re: FERC Form 714 – Annual (i.e., 2014) Electric Balancing Authority Area and Planning Area Report	No Docket No.	