

# Monthly Report

**July 2015** 

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# Operations Performance Metrics Monthly Report









## July 2015 Report

# Operations & Reliability Department New York Independent System Operator



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### **July 2015 Operations Performance Highlights**

- Peak load of 31,138 MW occurred on 7/29/2015 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 19 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- Commissioning began at the end of July for a new 200 MVAR Shunt Reactor at the 345kV Coopers Corners substation.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

	<b>Current Month</b>	Year-to-Date
	Value (\$M)	Value (\$M)
Regional Congestion Coordination	\$0.32	\$9.42
Regional PJM-NY RT Scheduling	\$0.40	\$4.14
Total	\$0.72	\$13.56

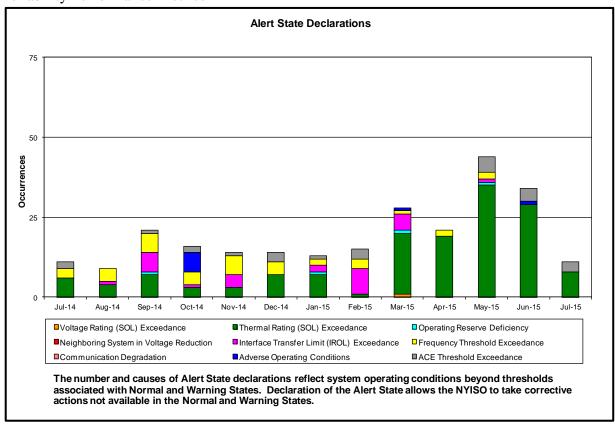
- Statewide uplift cost monthly average was (\$0.31)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and the price changes from the prior month.

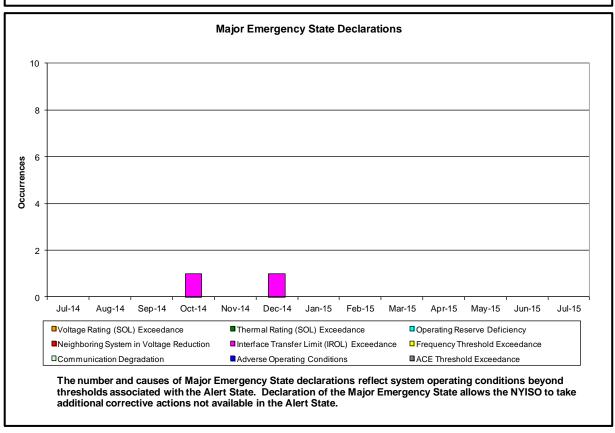
Spot Auction Price Results	NYCA	Lower Hudson Valley Zone	New York City Zone	Long Island Zone
August 2015 Spot Price	\$3.58	\$8.32	\$15.32	\$5.77
Change from Prior Month	(\$0.40)	(\$0.04)	\$0.06	\$0.00

• NYCA - Price decrease of \$0.40 due primarily to net increase in imports.

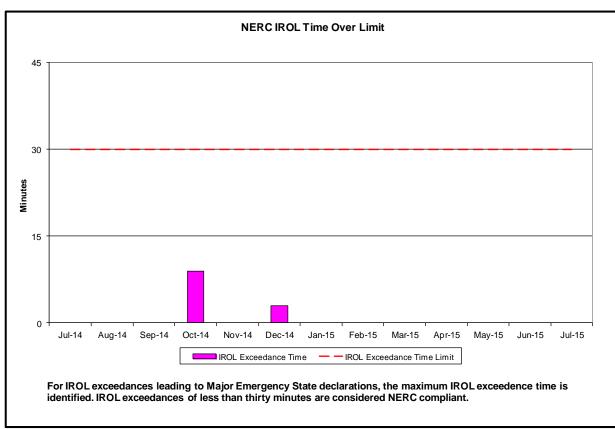


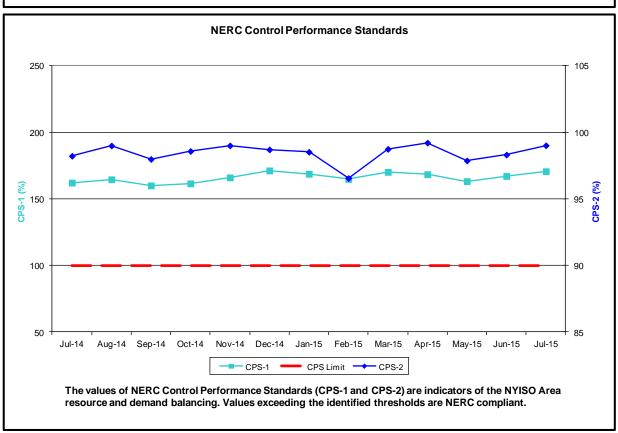
#### Reliability Performance Metrics



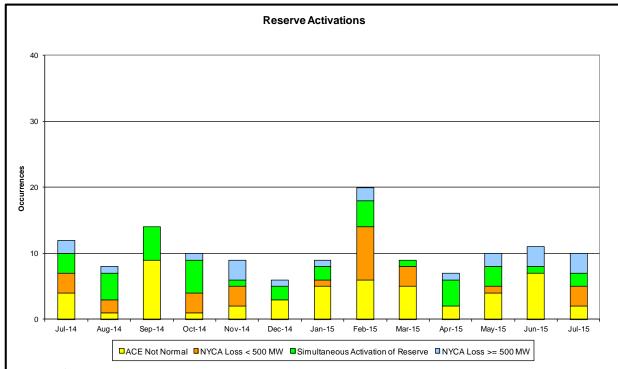




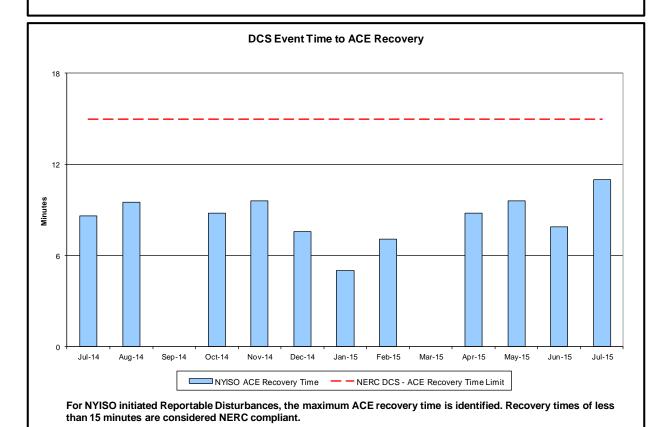




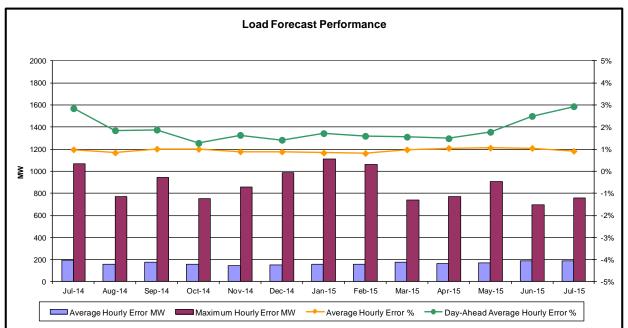




NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Simultaneous Activation of Reserves) by activating an immediate resource and demand balancing operation.



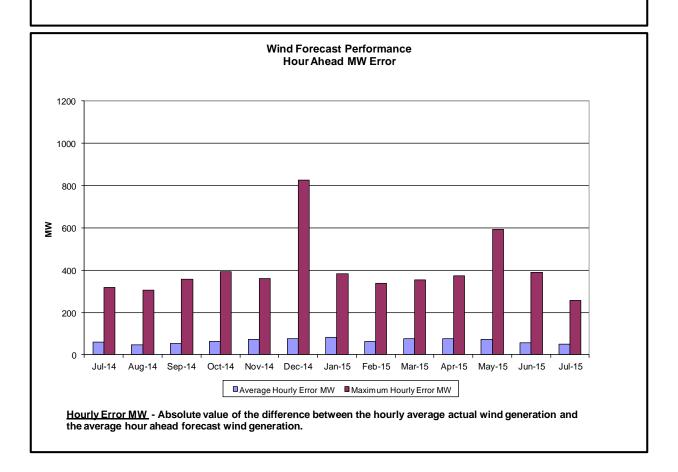




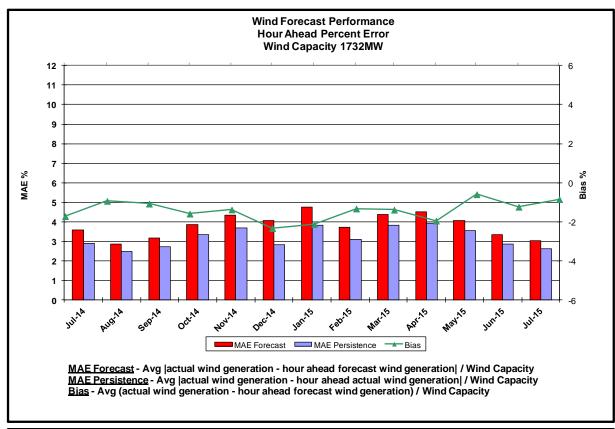
<u>Hourly Error MW</u> - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

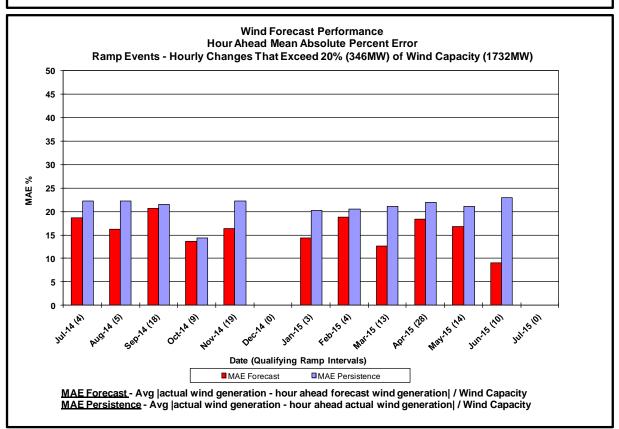
<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

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

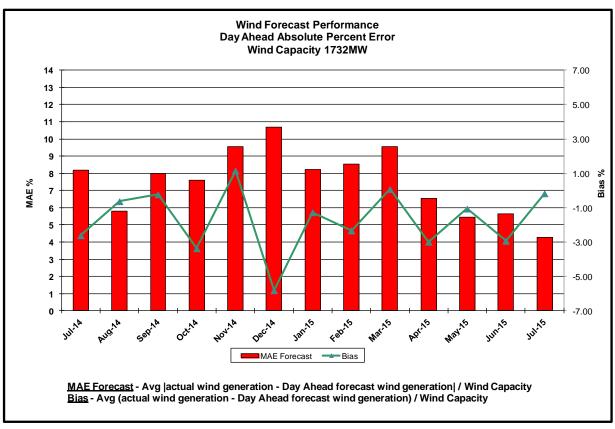


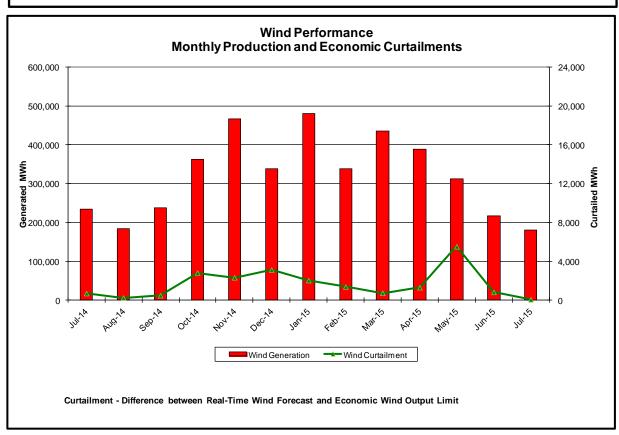




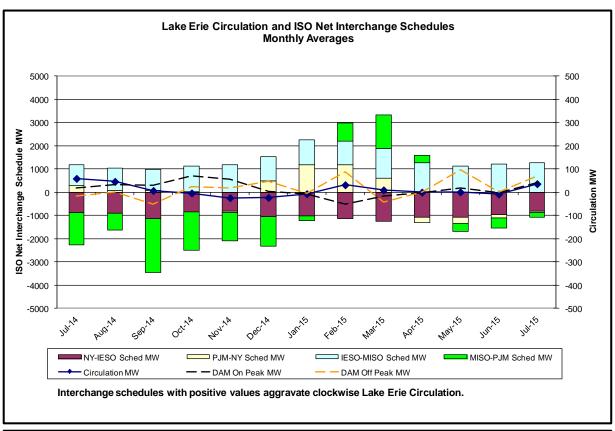


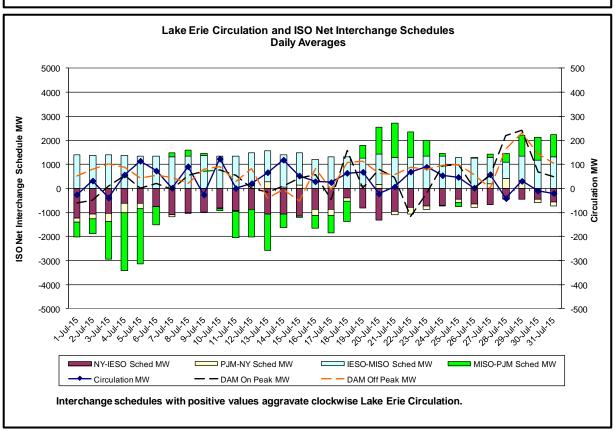






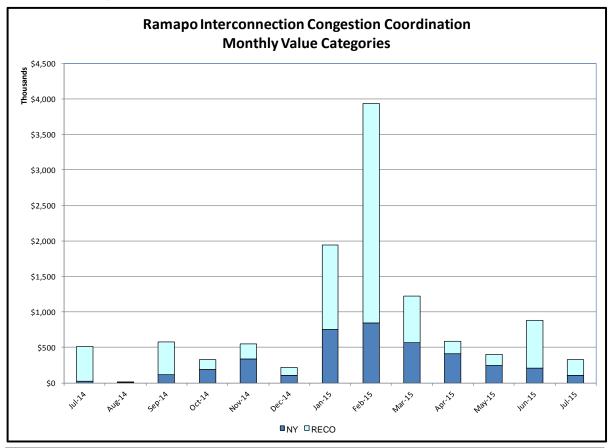


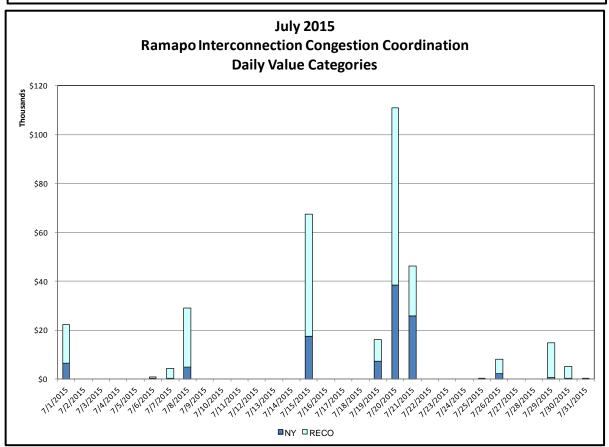






#### **Broader Regional Market Performance Metrics**







#### Ramapo Interconnection Congestion Coordination

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

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

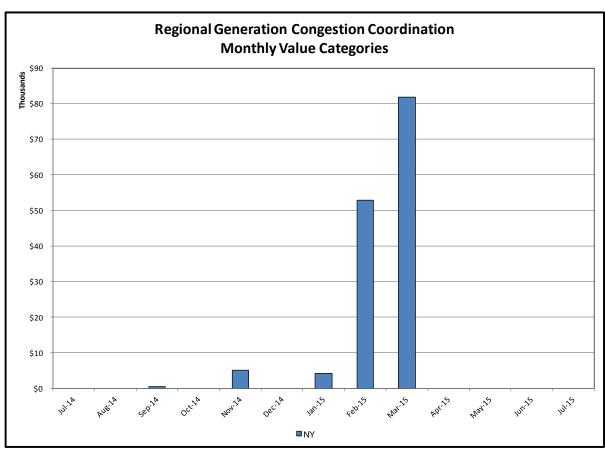
PJM when they are congested.

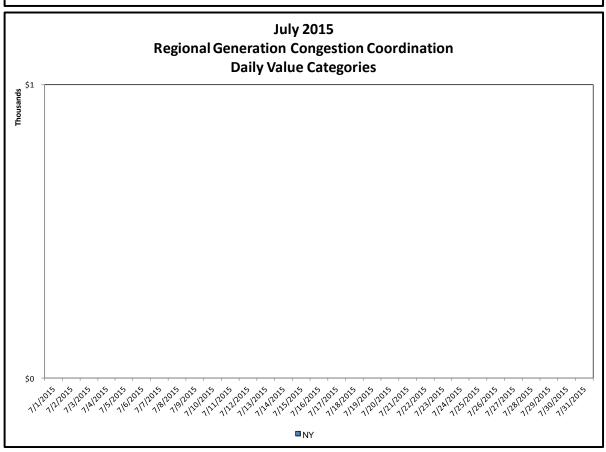
RECO Represents the value of PJM's obligation to deliver 80% of service to RECO load over

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

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









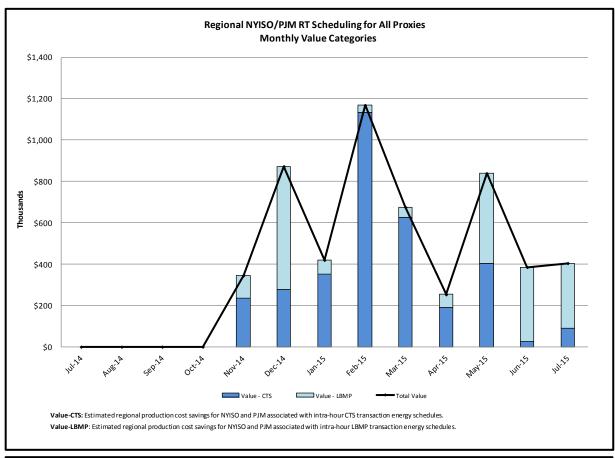
#### **Regional Generation Congestion Coordination**

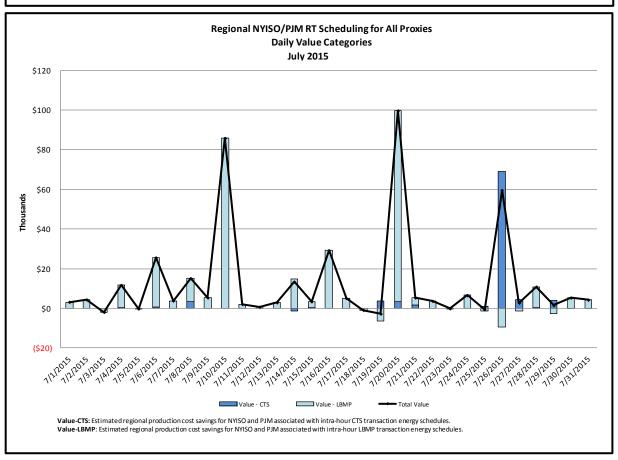
<u>Category</u> NY

#### <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.

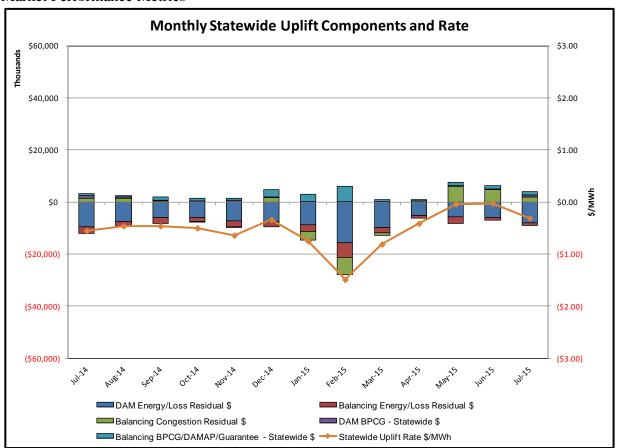




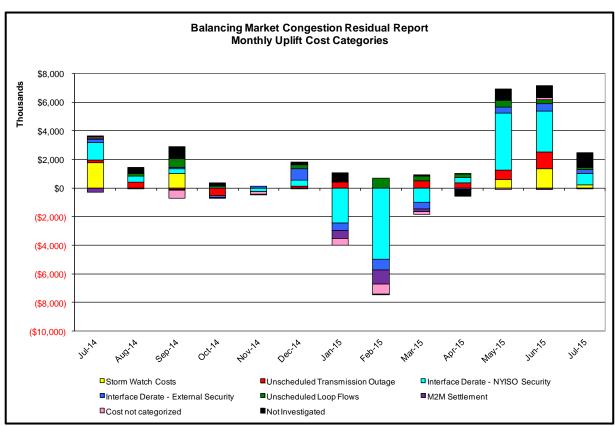


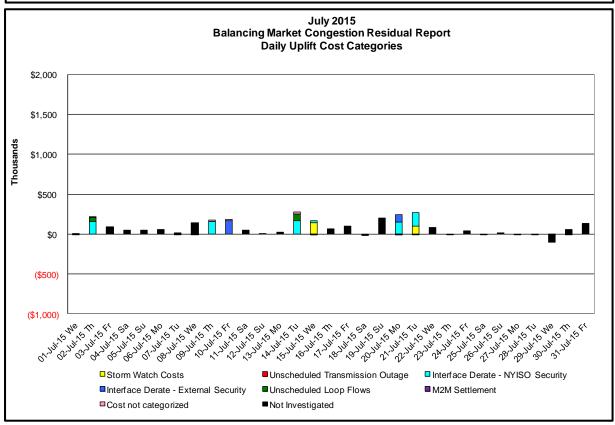


#### Market Performance Metrics











Г		9,10,14,15,20,21 Hours	Description
ľ	7/2/2015		Description  Derate Mott Haven-Rainey 345kV (#Q11) for I/o Mott Haven-Rainey 345kV (#Q12)
ŀ	7/2/2015		Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#78)
۱	7/9/2015		Derate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76
H	7/9/2015		Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)
۲			PJM_AC-NY Scheduling Limit
٠	7/10/2015 7/14/2015		Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)
۲	7/14/2015		Derate Sprainbrook-East Garden City 345kV (#Y49) for I/o NEPTUNE HVDC TIE LINE
ŀ	7/14/2015		NYCA DNI Ramp Limit
	7/14/2015		Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230KV (#78)
ł	7/15/2015		Thunder Storm Alert
ŀ	7/15/2015		Derate FreshKills-Willow Brook 138kV (#29212-2)
ŀ	7/15/2015	,	Derate Goethals-Gowanus 345kV (#25) for I/o Goethals-Gowanus 345kV (#26)
ŀ	7/15/2015		Derate Goethals-Gowanus 345kV (#26) for I/oSCB:GOETH(3):25&22&R25
-	7/15/2015		IESO AC DNI Ramp Limit
ŀ	7/15/2015		PJM AC DNI Ramp Limit
-	7/13/2015		NYCA DNI Ramp Limit
-	7/20/2015		Uprate Central East
-	7/20/2015		Derate East Garden City-ValleyStream 138kV (#262) for I/o TWR:EGRDNCTY 361& 362
-	7/20/2015		Derate FreshKills-Willow Brook 138kV (#29212-2)
H	7/20/2015		Derate FreshKills 345/138kV (#TA1) for I/o SCB:FRESHKILLS(6)
-	7/20/2015		Derate FreshKills 345/138kV (#TA1) for I/oSCB:GOWANUS(14):42&42232
ŀ	7/20/2015		Uprate Gowanus-Greenwood 138kV (#42231)
۲	7/20/2015		Uprate Gowanus-Greenwood 138kV (#42231)
-	7/20/2015		Uprate Gowanus-Greenwood 138kV (#42231) for I/o SCB:GOWANUS(14):42&42232
ŀ	7/20/2015		Uprate Gowanus-Greenwood 138kV (#42231) 101 1/0 SCB:GOWANUS(2):41&42231  Uprate Gowanus-Greenwood 138kV (#42232) for I/o SCB:GOWANUS(2):41&42231
H	7/20/2015		Uprate Gowanus-Greenwood 138kV (#42232) for I/o TWR:GOETHALS 22 & 21
ŀ	7/20/2015		Derate Greenwood/Staten Island
-	7/20/2015		Derate Huntley-Sawyer 230kV (#80) for I/o Sawyer-SUNY BUF 230kV (#79)
ŀ	7/20/2015		Uprate Leeds-Pleasant Valley 345kV (#92) for I/o Athens-Pleasant Valley 345kV (#91)
ŀ	7/20/2015		Derate Sprainbrook-East Garden City 345kV (#Y49) for I/o NEPTUNE HVDC TIE LINE
	7/20/2015		NE_AC-NY Scheduling Limit
ŀ	7/20/2015		PJM AC DNI Ramp Limit
1	7/21/2015		Thunder Storm Alert
1	7/21/2015		NYCA DNI Ramp Limit
-	7/21/2015		Uprate Central East
ŀ	7/21/2015		Derate FreshKills 345/138kV (#TA1) for I/o SCB:FRESHKILLS(6)
-	7/21/2015		Uprate Gowanus-Greenwood 138kV (#42231) for I/o TWR:GOETHALS 22 & 21
ŀ	7/21/2015		Uprate Gowanus-Greenwood 138kV (#42231) for I/o TWR:GOETHALS 22 & 21
١	7/21/2015		Derate Gewands-Greenwood/Staten Island
-	7/21/2015		Derate Huntley-Sawyer 230kV (#80) for I/o Sawyer-SUNY_BUF 230kV (#79)
	7/21/2015		Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)



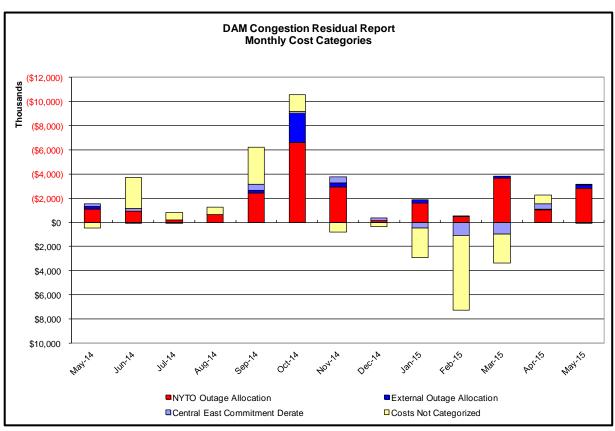
	Real-Time Balancing	Market Congestion	Residual (Uplif	t Cost) Categories
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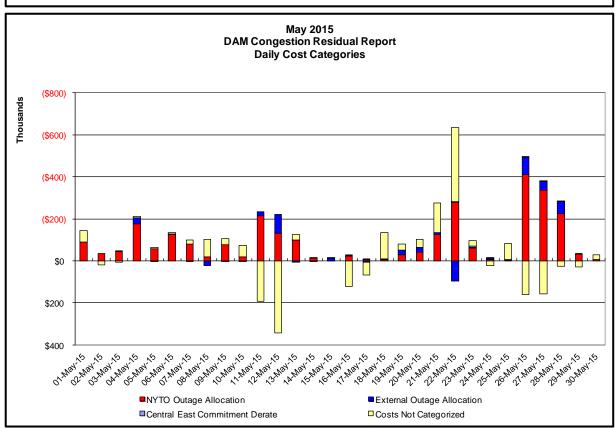
Event Examples Category Cost Assignment Events Types Storm Watch Zone J Thunderstorm Alert (TSA) TSA Activations Unscheduled Transmission Outage Market-wide Reduction in DAM to RTM transfers Forced Line Outage, Unit AVR Outages related to unscheduled transmission outage Interface Derate - NYISO Security Market-wide Reduction in DAM to RTM transfers Interface Derates due to not related to transmission outage RTM voltages Interface Derate - External Security Market-wide Reduction in DAM to RTM transfers TLR Events, related to External Control Area **External Transaction Security Events** Curtailments Changes in DAM to RTM DAM to RTM Clockwise **Unscheduled Loop Flows** Market-wide unscheduled loop flows impacting Lake Erie Loop Flows NYISO Interface transmission greater than 125 MW constraints **M2M Settlement** Market-wide Settlement result inclusive of coordinated redispatch and Ramapo flowgates

#### Monthly Balancing Market Congestion Report Assumptions/Notes

- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100 K/HR, shortfall of \$200 K/Day or more, or surplus of \$100 K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour



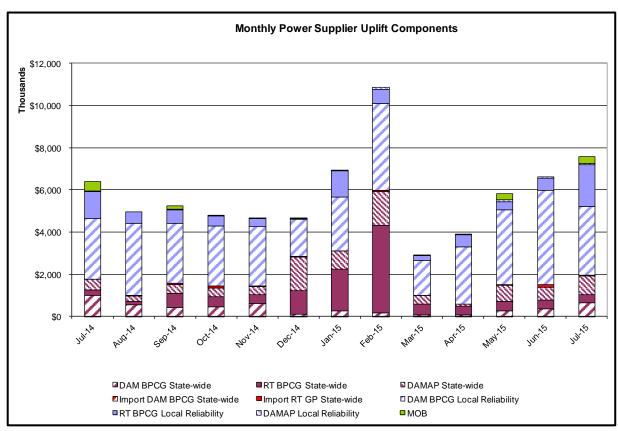


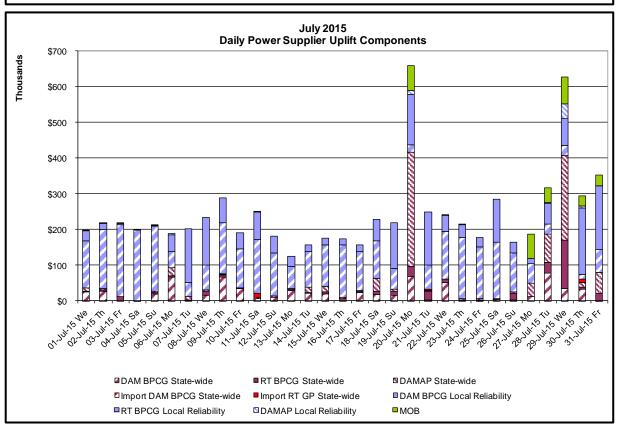




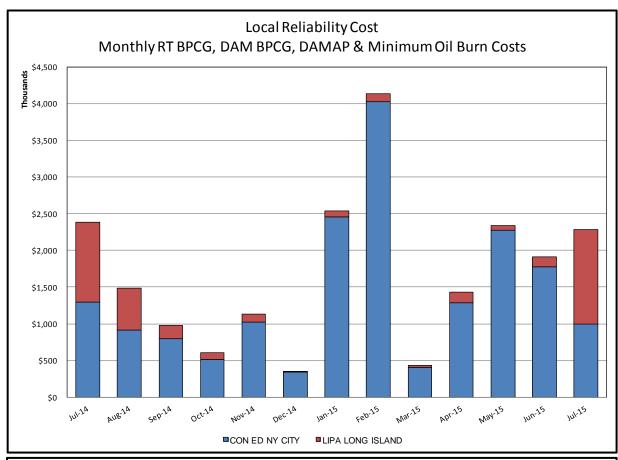
Day-Ahead Market Congestion Residual Categories									
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO		Event Examples  DAM scheduled outage for equipment modeled inservice for the TCC Auction.						
External Outage Allocation	All TO by Monthly Allocation Factor	Direct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

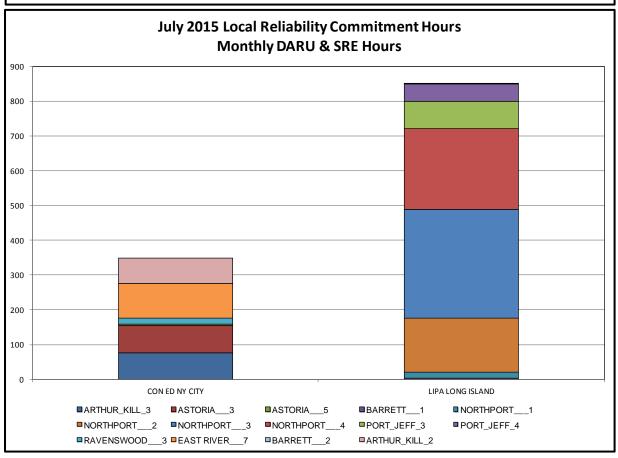




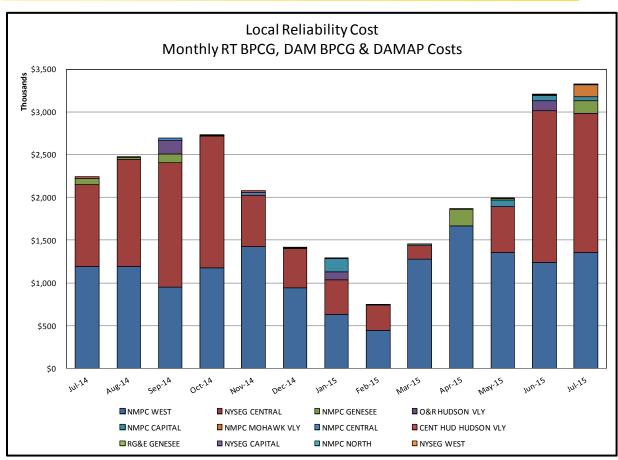


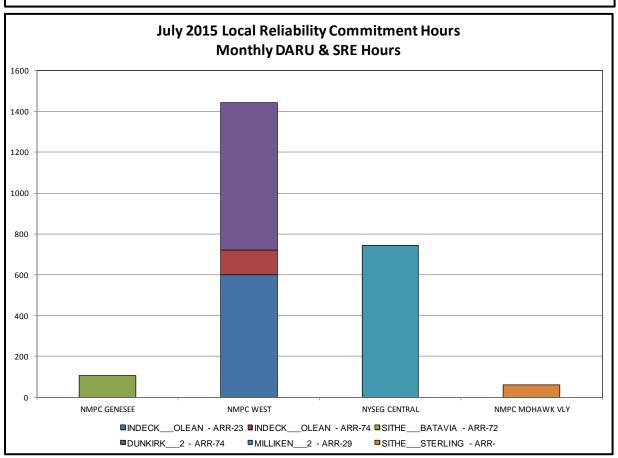




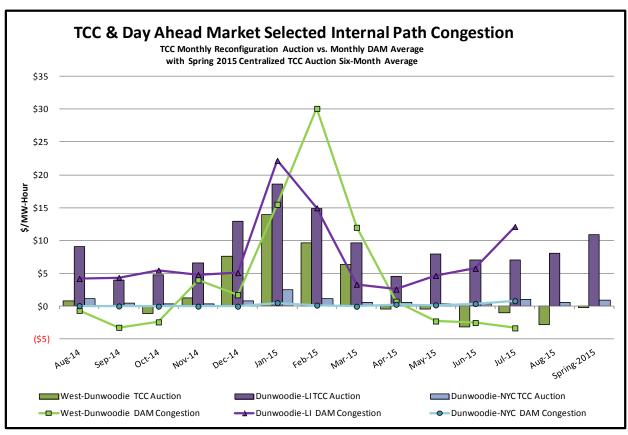


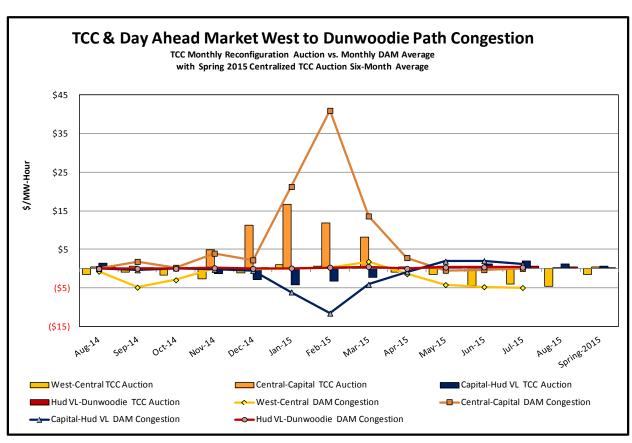




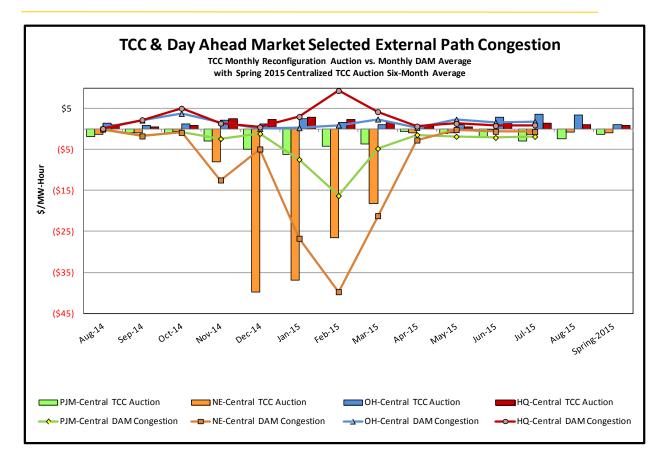




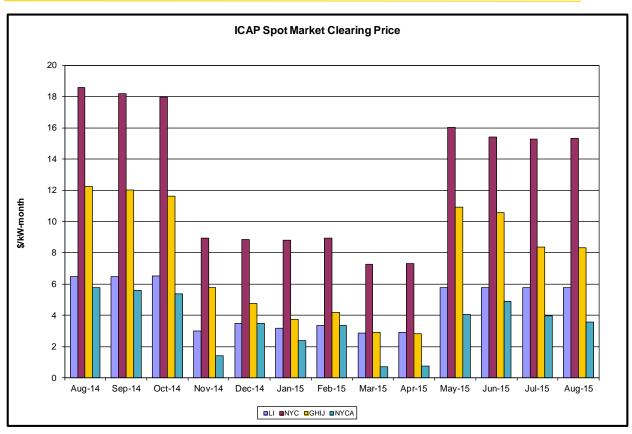


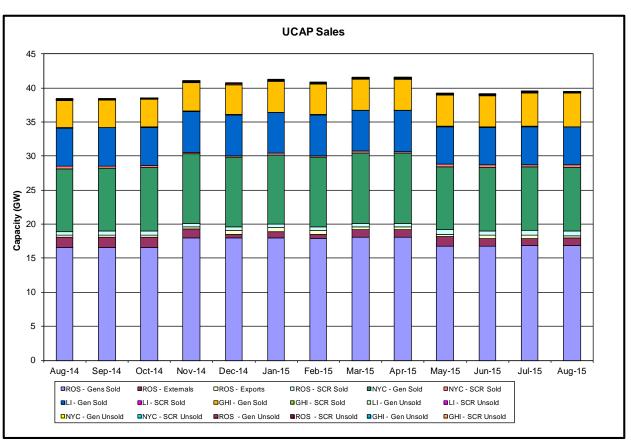










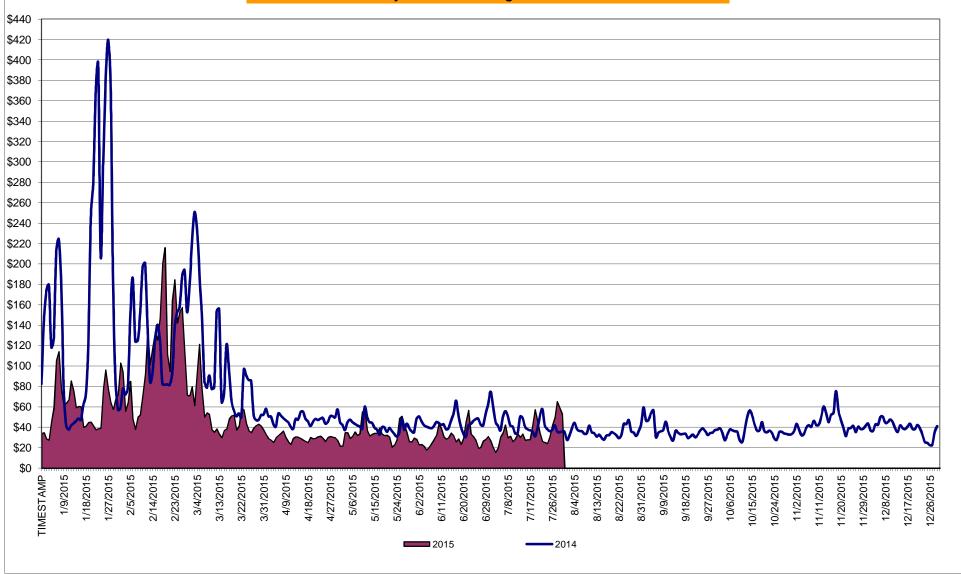


# Market Performance Highlights for July 2015

- LBMP for July is \$34.78/MWh; higher than \$28.19/MWh in June 2015 and lower than \$43.97/MWh in July 2014.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to June.
  - This is the lowest LBMP for the month of July during NYISO operation.
- July 2015 average year-to-date monthly cost of \$52.76/MWh is a 41% decrease from \$89.46/MWh in July 2014.
- Average daily sendout is 512 GWh/day in July; higher than 450 GWh/day in June 2015 and 496 GWh/day in July 2014.
- Natural gas and distillate prices were lower compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$1.99/MMBtu, down 15% from \$2.34/MMBtu in June.
    - Transco Z6 NY is down 25% year-over-year
  - Jet Kerosene Gulf Coast was \$11.51/MMBtu, down from \$12.80/MMBtu in June.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$12.07/MMBtu, down from \$13.45/MMBtu in June.
- Distillate prices are down 41% year-over-year
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is \$0.04/MWh; lower than \$0.33/MWh in June.
    - The Local Reliability Share is \$0.34/MWh, lower than \$0.37 in June.
    - The Statewide Share is (\$0.31)/MWh, lower than (\$0.03)/MWh in June.
  - TSA \$ per NYC MWh is \$0.07/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than June.

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

2014 Annual Average \$69.31MWh July 2014 YTD Average \$89.46/MWh July 2015 YTD Average \$52.76/MWh

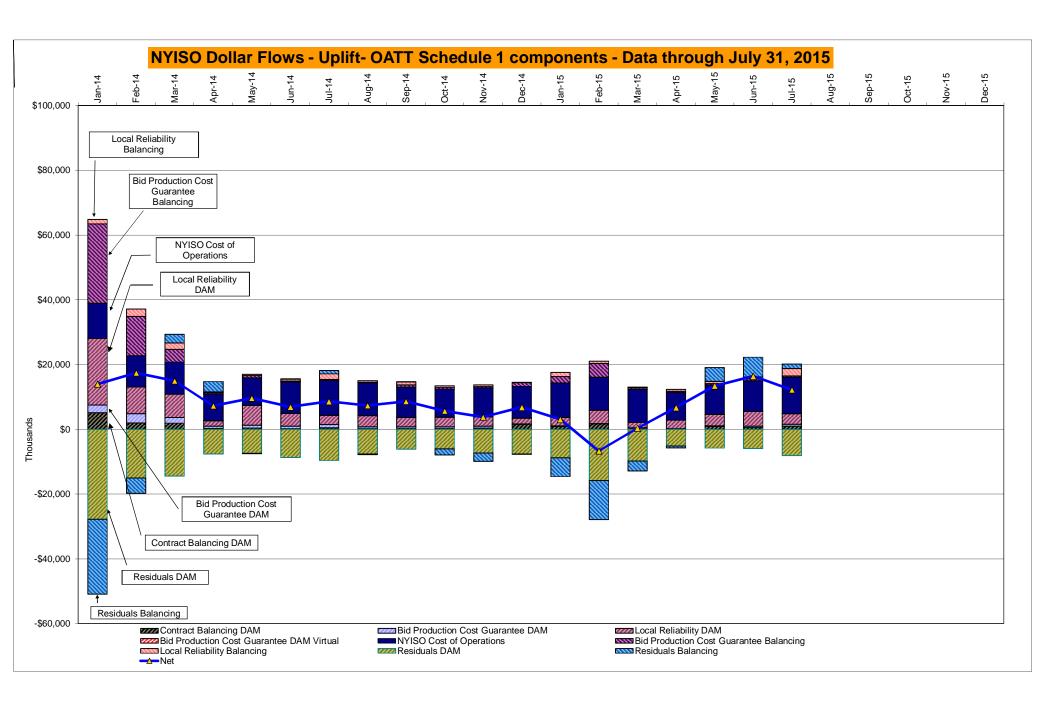


<sup>\*</sup> Excludes ICAP payments.

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

2015	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
LBMP	59.60	114.35	52.09	28.35	32.98	28.19	34.78					
NTAC	0.32	0.35	0.42	0.64	0.56	0.80	0.55					
Reserve	0.27	0.37	0.56	0.36	0.38	0.24	0.27					
Regulation	0.10	0.18	0.11	0.12	0.10	0.13	0.12					
NYISO Cost of Operations	0.70	0.70	0.70	0.70	0.70	0.70	0.70					
Uplift	(0.50)	(1.17)	(0.68)	(0.14)	0.28	0.33	0.04					
Uplift: Local Reliability Share	0.25	0.33	0.13	0.27	0.32	0.37	0.34					
Uplift: Statewide Share	(0.75)	(1.49)	(0.81)	(0.41)	(0.04)	(0.03)	(0.31)					
Voltage Support and Black Start	0.39	0.39	0.39	0.39	0.39	0.39	0.39					
Avg Monthly Cost	60.88	115.17	53.59	30.42	35.39	30.79	36.84					
Avg YTD Cost	60.88	87.68	76.61	66.80	60.95	56.02	52.76					
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.17	0.50	0.07					
2014	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	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	0.21	0.22	0.13	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 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	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	<u>December</u>
LBMP	79.77	85.76	48.94	44.47	52.21	50.17	68.49	40.81	44.24	39.85	43.30	66.41
NTAC	0.79	0.83	0.76	0.90	0.85	0.86	0.66	0.28	0.57	0.87	1.08	0.59
Reserve	0.38	0.44	0.43	0.36	0.49	0.34	0.50	0.32	0.38	0.42	0.38	0.44
Regulation	0.13	0.13	0.10	0.11	0.09	0.13	0.11	0.13	0.13	0.16	0.13	0.12
NYISO Cost of Operations	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Uplift	0.21	(0.15)	(0.33)	0.02	0.41	0.49	2.06	0.03	(0.05)	0.18	(0.07)	(0.25)
Uplift: Local Reliability Share	0.44	0.40	0.19	0.37	0.58	0.81	1.27	0.49	0.31	0.38	0.19	0.12
Uplift: Statewide Share	(0.23)	(0.55)	(0.52)	(0.35)	(0.17)	(0.31)	0.79	(0.46)	(0.36)	(0.19)	(0.25)	(0.37)
Voltage Support and Black Start	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Avg Monthly Cost	82.34	88.06	50.96	46.91	55.10	53.05	72.87	42.62	46.31	42.54	45.88	68.36
Avg monthly cost	02.54	00.00	50.50	TU.31	55.10	55.05	12.01	72.02	<del>1</del> 0.51	72.04	70.00	00.00
Avg YTD Cost	82.34	85.08	74.02	67.80	65.46	63.36	65.10	62.27	60.74	59.30	58.24	59.13
TSA \$ per NYC MWh	0.00	0.00	0.00	0.04	0.58	0.61	1.52	0.43	0.22	0.01	0.00	0.00

\* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 8/7/2015 1:57 PM Data reflects true-ups thru Dec 2014.



#### **NYISO Markets Transactions**

2015	January	February	March	<u>April</u>	May	<u>June</u>	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	14,277,299	16,573,027			· <del></del>		
DAM LSE Internal LBMP Energy Sales	55%	54%	53%	55%	57%	57%	62%					
DAM External TC LBMP Energy Sales	5%	6%	6%	4%	2%	1%	1%					
DAM Bilateral - Internal Bilaterals	35%	33%	33%	33%	35%	33%	30%					
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	3%	5%	5%	6%	4%	5%	4%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	1%	2%	1%	1%	1%					
DAM Bilateral - Wheel Through Bilaterals	0%	1%	1%	1%	0%	2%	2%					
Balancing Energy Market MWh	-648,574	-287,795	-397,342	-410,311	-327,906	-545,880	-500,469					_
Balancing Energy LSE Internal LBMP Energy Sales	-149%	-252%	-192%	-147%	-143%	-106%	-121%					
Balancing Energy External TC LBMP Energy Sales	30%	117%	64%	36%	36%	17%	25%					
Balancing Energy Bilateral - Internal Bilaterals	13%	14%	19%	5%	6%	6%	13%					
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	1%	0%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	8%	12%	11%	10%	4%	3%					
Balancing Energy Bilateral - Wheel Through Bilaterals	0%	12%	-4%	-5%	-9%	-22%	-21%					
Transactions Summary												
LBMP	58%	59%	57%	57%	58%	57%	61%					
Internal Bilaterals	37%	34%	35%	35%	36%	35%	32%					
Import Bilaterals	3%	5%	5%	6%	4%	5%	5%					
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%					
Wheels Through	0%	1%	1%	0%	0%	1%	1%					
Market Share of Total Load												
Day Ahead Market	104.2%	102.0%	102.7%	103.4%	102.5%	104.0%	103.1%					
Balancing Energy +	-4.2%	-2.0%	-2.7%	-3.4%	-2.5%	-4.0%	-3.1%					
Total MWH	15,312,732		14,661,865	12,179,010	12,964,011	13,731,419	16,072,558					
Average Daily Energy Sendout/Month GWh	462	481	436	387	409	450	512					
<u>2014</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market MWh	16,034,264	14,409,515	14,633,570	12,101,747	12,984,458	14,719,929	16,528,338	15,536,610	14,312,509	13,684,158	13,945,509	14,992,656
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	16,034,264 52%	14,409,515 50%	14,633,570 53%	12,101,747 56%	12,984,458 53%	14,719,929 54%	16,528,338 58%	15,536,610 57%	14,312,509 56%	13,684,158 54%	13,945,509 54%	14,992,656 54%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales	16,034,264 52% 5%	14,409,515 50% 7%	14,633,570 53% 6%	12,101,747 56% 3%	12,984,458 53% 2%	14,719,929 54% 3%	16,528,338 58% 1%	15,536,610 57% 0%	14,312,509 56% 1%	13,684,158 54% 2%	13,945,509 54% 5%	14,992,656 54% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	16,034,264 52% 5% 36%	14,409,515 50% 7% 36%	14,633,570 53% 6% 35%	12,101,747 56% 3% 33%	12,984,458 53% 2% 38%	14,719,929 54% 3% 36%	16,528,338 58% 1% 34%	15,536,610 57% 0% 35%	14,312,509 56% 1% 36%	13,684,158 54% 2% 38%	13,945,509 54% 5% 36%	14,992,656 54% 5% 36%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals	16,034,264 52% 5% 36% 5%	14,409,515 50% 7% 36% 5%	14,633,570 53% 6% 35% 5%	12,101,747 56% 3% 33% 6%	12,984,458 53% 2% 38% 5%	14,719,929 54% 3% 36% 5%	16,528,338 58% 1% 34% 4%	15,536,610 57% 0% 35% 5%	14,312,509 56% 1% 36% 4%	13,684,158 54% 2% 38% 4%	13,945,509 54% 5% 36% 3%	14,992,656 54% 5% 36% 3%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals	16,034,264 52% 5% 36% 5% 2%	14,409,515 50% 7% 36% 5% 1%	14,633,570 53% 6% 35% 5% 1%	12,101,747 56% 3% 33% 6% 2%	12,984,458 53% 2% 38% 5% 2%	14,719,929 54% 3% 36% 5% 1%	16,528,338 58% 1% 34% 4% 1%	15,536,610 57% 0% 35% 5% 1%	14,312,509 56% 1% 36% 4% 1%	13,684,158 54% 2% 38% 4% 2%	13,945,509 54% 5% 36% 3% 2%	14,992,656 54% 5% 36% 3% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals	16,034,264 52% 5% 36% 5% 2% 1%	14,409,515 50% 7% 36% 5% 1% 1%	14,633,570 53% 6% 35% 5% 1% 1%	12,101,747 56% 3% 33% 6% 2% 0%	12,984,458 53% 2% 38% 5% 2% 1%	14,719,929 54% 3% 36% 5% 1%	16,528,338 58% 1% 34% 4% 1% 1%	15,536,610 57% 0% 35% 5% 1%	14,312,509 56% 1% 36% 4% 1% 1%	13,684,158 54% 2% 38% 4% 2% 0%	13,945,509 54% 5% 36% 3% 2% 0%	14,992,656 54% 5% 36% 3% 2% 0%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh	16,034,264 52% 5% 36% 5% 2% 1%	14,409,515 50% 7% 36% 5% 1% 1% -298,340	14,633,570 53% 6% 35% 5% 1% 1% -116,173	12,101,747 56% 3% 33% 6% 2% 0% 54,298	12,984,458 53% 2% 38% 5% 2% 1% -510,467	14,719,929 54% 3% 36% 5% 1% 1% -558,413	16,528,338 58% 1% 34% 4% 1% 1% -854,501	15,536,610 57% 0% 35% 5% 1% 1%	14,312,509 56% 1% 36% 4% 1% 1%	13,684,158 54% 2% 38% 4% 2% 0%	13,945,509 54% 5% 36% 3% 2% 0% -750,627	14,992,656 54% 5% 36% 3% 2% 0% -705,848
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203%	14,633,570 53% 6% 35% 5% 1% 1% -116,173 -294%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114%	16,528,338 58% 1% 34% 4% 1% 1% -854,501 -116%	15,536,610 57% 0% 35% 5% 1% 1% -764,108 -117%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134%	14,992,656 54% 5% 36% 3% 2% 0% -705,848 -137%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203% 76%	14,633,570 53% 6% 35% 5% 1% 1% -116,173 -294% 97%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114% 22%	16,528,338 58% 1% 34% 4% 1% 1% -854,501 -116% 18%	15,536,610 57% 0% 35% 5% 1% 1% -764,108 -117% 15%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20%	14,992,656 54% 5% 36% 3% 2% 0% -705,848 -137% 28%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	16,034,264 52% 55% 36% 5% 2% 1% -249,484 -232% 105% 20%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203% 76% 26%	14,633,570 53% 6% 35% 5% 1% -116,173 -294% 97% 69%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 27%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114% 22% 7%	16,528,338 58% 1% 34% 4% 1% -854,501 -116% 48	15,536,610 57% 0% 35% 5% 1% 1% -764,108 -117% 15% 7%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9%	14,992,656 54% 5% 36% 3% 2% 0% -705,848 -137% 28% 4%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105% 20% 0%	14,409,515 50% 7% 36% 5% 1% -298,340 -203% 76% 26% 0%	14,633,570 53% 6% 35% 5% 1% -116,173 -294% 97% 69% 12%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 27% 0%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 3%	14,719,929 54% 3% 36% 5% 1% -558,413 -114% 22% 7% 0%	16,528,338 58% 1% 34% 4% 1% -854,501 -116% 4% 0%	15,536,610 57% 0% 35% 5% 1% -764,108 -117% 15% 7% 0%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9% 0%	14,992,656 54% 55% 36% 3% 2% 0% -705,848 -137% 28% 4% 0%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11%	14,409,515 50% 7% 36% 5% 1% -298,340 -203% 76% 26% 0% 6%	14,633,570 53% 6% 35% 5% 1% -116,173 -294% 97% 69% 12% 25%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 207% 0% 67%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 3%	14,719,929 54% 3% 36% 5% 1% -558,413 -114% 22% 7% 0% 3%	16,528,338 58% 1% 34% 4% 1% -854,501 -116% 18% 4% 0% 2%	15,536,610 57% 0% 35% 5% 1% -764,108 -117% 15% 0% 0%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1% 3%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9% 0% 5%	14,992,656 54% 55% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105% 20% 0%	14,409,515 50% 7% 36% 5% 1% -298,340 -203% 76% 26% 0%	14,633,570 53% 6% 35% 5% 1% -116,173 -294% 97% 69% 12%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 27% 0%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 3%	14,719,929 54% 3% 36% 5% 1% -558,413 -114% 22% 7% 0%	16,528,338 58% 1% 34% 4% 1% -854,501 -116% 4% 0%	15,536,610 57% 0% 35% 5% 1% -764,108 -117% 15% 7% 0%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9% 0%	14,992,656 54% 55% 36% 3% 2% 0% -705,848 -137% 28% 4% 0%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11% -4%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203% 76% 26% 0% 6% -6%	14,633,570 53% 6% 35% 5% 1% 1-116,173 -294% 97% 69% 12% 25% -10%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 277% 0% 67% -12%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 3% 4%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114% 22% 7% 0% 3% -18%	16,528,338 58% 1% 34% 4% 1% 1% -854,501 -116% 18% 4% 0% 2% -8%	15,536,610 57% 0% 35% 5% 1% 1% -764,108 -117% 15% 0% 2% -7%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1% 3% -1%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9% 0% 5% 0%	14,992,656 54% 5% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	16,034,264 52% 55% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11% -4%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203% 76% 26% 6% -6%	14,633,570 53% 6% 35% 5% 1% 1-116,173 -294% 69% 12% 25% -10%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 27% 0% 67% -12%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 4% 1%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114% 7% 0% 3% -18%	16,528,338 58% 1% 34% 4% 1% 1% -854,501 -116% 4% 0% 2% -8%	15,536,610 57% 0% 35% 5% 1% 1-764,108 -117% 15% 7% 0% 2% -7%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1% 3% -1%	13,945,509 54% 5% 36% 2% 0% -750,627 -134% 20% 9% 0% 5% 0%	14,992,656 54% 5% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 11%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals	16,034,264 52% 55% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11% -4%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203% 76% 26% 0% 6% -6% 56% 37%	14,633,570 53% 6% 35% 5% 1% 1-116,173 -294% 69% 12% 25% -10%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 0% 67% -12% 59% 33%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 4% 1%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114% 22% 7% 0% 3% -18%	16,528,338 58% 1% 34% 4% 1% 1-854,501 -116% 18% 4% 0% 2% -85% 36%	15,536,610 57% 0% 35% 5% 1% 1-764,108 -117% 15% 0% 2% -7% 55% 37%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7% 55% 38%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1% 3% -1%	13,945,509 54% 5% 36% 2% 0% -750,627 -134% 20% 9% 0% 5% 0%	14,992,656 54% 58% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1% 56% 38%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals	16,034,264 52% 55% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11% -4%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203% 76% 26% 6% 6% -6% 56% 37% 5%	14,633,570 53% 6% 35% 5% 1% 1-116,173 -294% 97% 69% 12% 25% -10% 57% 36% 5%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 0% 67% -12% 59% 33% 6%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 4% 1% 53% 39% 5%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114% 22% 7% 0% 3% -18% 55% 38% 55%	16,528,338 58% 1% 34% 4% 1% 1-854,501 -116% 18% 4% 0% 2% -85%	15,536,610 57% 0% 35% 5% 1% 1-764,108 -117% 15% 7% 0% -7% 55% 37% 5%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7% 55% 38% 5%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1% 3% -1%	13,945,509 54% 5% 36% 2% 0% -750,627 -134% 20% 0% 5% 0% 5% 39% 4%	14,992,656 54% 58% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1% 56% 38% 3%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals	16,034,264 52% 55% 36% 5% 2% 1% -249,484 -232% 105% 0% 11% -4% 56% 37% 5% 2%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203% 76% 26% 6% -6% 56% 37% 5% 1%	14,633,570 53% 6% 35% 5% 1% 1-116,173 -294% 97% 69% 12% 25% -10% 57% 36% 5% 2%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 0% 67% -12% 59% 33% 6% 2%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 4% 1% 53% 39% 5% 2%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114% 22% 7% 0% 3% -18% 55% 38% 5% 1%	16,528,338 58% 1% 34% 4% 1% 1-16% 18% 4% 0% 2% -8% 57% 36% 5% 1%	15,536,610 57% 0% 35% 5% 1% 1-764,108 -117% 15% 7% 0% -7% 55% 37% 55% 2%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7% 55% 38% 5% 2%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1% 3% -1% 52% 42% 44% 2%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9% 0% 5% 0%	14,992,656 54% 58% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1% 56% 38% 38% 38% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through	16,034,264 52% 55% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11% -4%	14,409,515 50% 7% 36% 5% 1% 1% -298,340 -203% 76% 26% 6% 6% -6% 56% 37% 5%	14,633,570 53% 6% 35% 5% 1% 1-116,173 -294% 97% 69% 12% 25% -10% 57% 36% 5%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 0% 67% -12% 59% 33% 6%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 4% 1% 53% 39% 5%	14,719,929 54% 3% 36% 5% 1% 1% -558,413 -114% 22% 7% 0% 3% -18% 55% 38% 55%	16,528,338 58% 1% 34% 4% 1% 1-854,501 -116% 18% 4% 0% 2% -85%	15,536,610 57% 0% 35% 5% 1% 1-764,108 -117% 15% 7% 0% -7% 55% 37% 5%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7% 55% 38% 5%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1% 3% -1%	13,945,509 54% 5% 36% 2% 0% -750,627 -134% 20% 0% 5% 0% 5% 39% 4%	14,992,656 54% 58% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1% 56% 38% 3%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105% 0% 11% -4% 56% 37% 5% 2% 1%	14,409,515 50% 7% 36% 5% 1% -298,340 -203% 76% 26% 0% 6% -6% 56% 37% 5% 1% 1%	14,633,570 53% 6% 35% 5% 1% -116,173 -294% 69% 12% 25% -10% 57% 36% 5% 2% 1%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 67% -12% 59% 33% 6% 2% 0%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 3% 4% 1% 53% 39% 5% 2% 1%	14,719,929 54% 3% 36% 5% 1% -558,413 -114% 22% 7% 0% 3% -18% 55% 18%	16,528,338 58% 1% 34% 4% 1% -854,501 -116% 4% 0% 2% -8% 57% 36% 5% 1% 1%	15,536,610 57% 0% 35% 5% 1% 1-764,108 -117% 15% 7% 0% -7% 55% 37% 55% 37% 5% 2% 1%	14,312,509 56% 1% 36% 4% 1% 16 -674,285 -129% 24% 7% 2% 3% -7% 55% 38% 5% 2% 1%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 7% 1% 3% -1%	13,945,509 54% 58 36% 38% 2% 0% -750,627 -134% 20% 9% 0% 5% 0% 55% 39% 4% 2% 1%	14,992,656 54% 5% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1% 56% 38% 3% 2% 0%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11% -4% 56% 37% 5% 2% 105%	14,409,515 50% 7% 36% 5% 1% -298,340 -203% 76% 26% 0% 6% -6% 56% 37% 5% 1% 102.1%	14,633,570 53% 6% 35% 5% 1% -116,173 -294% 69% 12% 25% -10% 57% 36% 5% 2% 1%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 27% 0% 67% -12% 59% 33% 6% 2% 0%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 3% 4% 1% 53% 39% 5% 2% 1%	14,719,929 54% 3% 36% 5% 1% -558,413 -114% 22% 0% 3% -18% 55% 38% 5% 1% 103.9%	16,528,338 58% 1% 34% 4% 1% -854,501 -116% 2% -8* 57% 36% 5% 1% 105.5%	15,536,610 57% 0% 35% 5% 1% 1% -764,108 -117% 15% 0% 2% -7% 55% 37% 55% 37% 40% 105.2%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7% 55% 38% 5% 2% 1%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 3% -1% 52% 42% 42% 0% 107.9%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9% 0% 5% 0% 4% 2% 1% 105.7%	14,992,656 54% 58% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1% 56% 38% 3% 2% 0%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11% -4%  56% 37% 5% 2% 11%	14,409,515 50% 7% 36% 5% 1% -298,340 -203% 76% 26% 6% -6% 56% 37% 5% 1% 102.1% -2.1%	14,633,570 53% 6% 35% 5% 1% -116,173 -294% 97% 69% 12% 25% -10% 57% 36% 5% 2% 1%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 27% 0% 67% -12% 59% 33% 6% 2% 0%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 21% 3% 4% 1% 53% 39% 5% 2% 1% 104.1% -4.1%	14,719,929 54% 3% 36% 5% 1% -558,413 -114% 22% 0% 3% -18% 55% 38% 5% 1% 103.9% -3.9%	16,528,338 58% 1% 34% 4% 1% -854,501 -116% 18% 0% 2% -8% 57% 36% 5% 1% 1%	15,536,610 57% 0% 35% 5% 1% 1% -764,108 -117% 15% 0% 2% -7% 55% 37% 55% 37% 105.2% -5.2%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7% 55% 38% 5% 2% 11% 104.9% -4.9%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 3% -1% 52% 42% 4% 2% 0%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9% 0% 5% 0% 55% 39% 4% 2% 1% 105.7% -5.7%	14,992,656 54% 58% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1% 56% 38% 3% 2% 0% -104.9% -4.9%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market	16,034,264 52% 5% 36% 5% 2% 1% -249,484 -232% 105% 20% 0% 11% -4% 56% 37% 5% 2% 105%	14,409,515 50% 7% 36% 5% 1% -298,340 -203% 76% 26% 6% -6% 56% 37% 5% 1% 102.1% -2.1%	14,633,570 53% 6% 35% 5% 1% -116,173 -294% 69% 12% 25% -10% 57% 36% 5% 2% 1%	12,101,747 56% 3% 33% 6% 2% 0% 54,298 -190% 207% 27% 0% 67% -12% 59% 33% 6% 2% 0%	12,984,458 53% 2% 38% 5% 2% 1% -510,467 -133% 3% 4% 1% 53% 39% 5% 2% 1%	14,719,929 54% 3% 36% 5% 1% -558,413 -114% 22% 0% 3% -18% 55% 38% 5% 1% 103.9%	16,528,338 58% 1% 34% 4% 1% -854,501 -116% 18% 0% 2% -8% 57% 36% 5% 1% 1%	15,536,610 57% 0% 35% 5% 1% 1% -764,108 -117% 15% 0% 2% -7% 55% 37% 55% 37% 40% 105.2%	14,312,509 56% 1% 36% 4% 1% 1% -674,285 -129% 24% 7% 2% 3% -7% 55% 38% 5% 2% 11% 104.9% -4.9%	13,684,158 54% 2% 38% 4% 2% 0% -999,342 -124% 14% 3% -1% 52% 42% 42% 0% 107.9%	13,945,509 54% 5% 36% 3% 2% 0% -750,627 -134% 20% 9% 0% 5% 0% 4% 2% 1% 105.7%	14,992,656 54% 58% 36% 3% 2% 0% -705,848 -137% 28% 4% 0% 3% 1% 56% 38% 3% 2% 0%

<sup>+</sup> Balancing Energy: Load(MW) purchased at Real Time LBMP.

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

Virtual Transactions are not reflected in this chart.

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

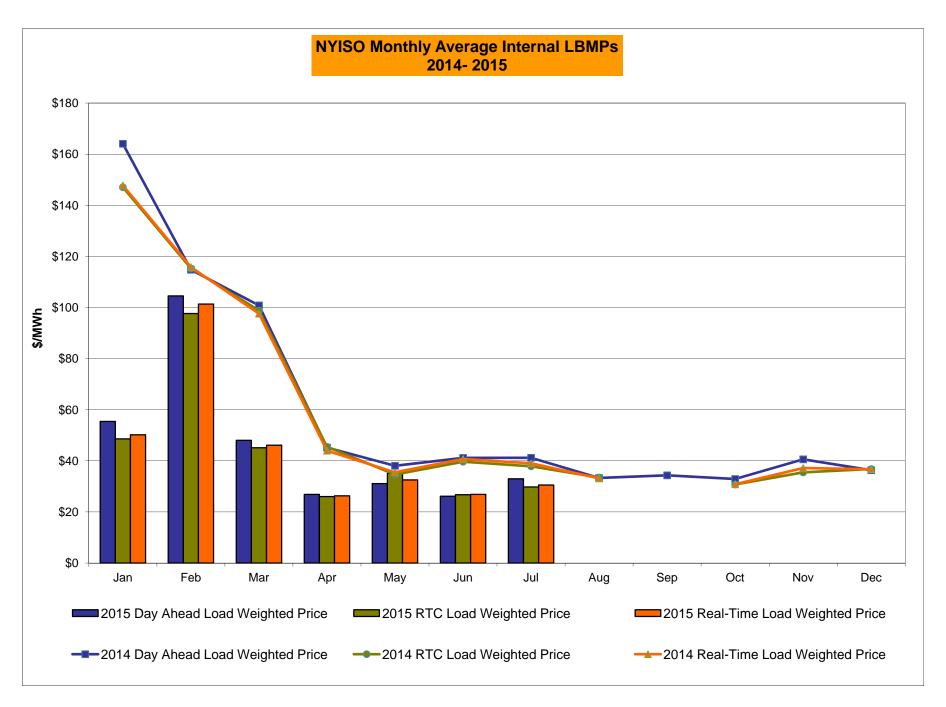
#### **NYISO Markets 2015 Energy Statistics**

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August September	October November December
DAY AHEAD LBMP	<del></del> _	-			<del></del>		<del></del> -		
Price *	\$53.35	\$101.48	\$46.59	\$26.07	\$29.21	\$24.30	\$30.27		
Standard Deviation	\$24.61	\$48.85	\$21.51	\$6.73	\$13.44	\$11.96	\$17.67		
Load Weighted Price **	\$55.40	\$104.52	\$48.01	\$26.84	\$31.08	\$26.12	\$32.94		
RTC LBMP									
Price *	\$46.98	\$95.06	\$43.43	\$25.11	\$32.85	\$24.73	\$27.51		
Standard Deviation	\$22.84	\$47.55	\$29.42	\$12.31	\$35.40	\$24.71	\$21.84		
Load Weighted Price **	\$48.59	\$97.62	\$45.10	\$26.00	\$35.08	\$26.73	\$29.76		
REAL TIME LBMP									
Price *	\$48.51	\$98.83	\$44.38	\$25.46	\$30.39	\$23.96	\$27.71		
Standard Deviation	\$25.99	\$52.53	\$29.07	\$12.66	\$31.69	\$31.14	\$23.42		
Load Weighted Price **	\$50.18	\$101.34	\$46.10	\$26.28	\$32.52	\$26.86	\$30.50		
Average Daily Energy Sendout/Month GWh	462	481	436	387	409	450	512		

#### NYISO Markets 2014 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August S	<u>September</u>	October	November [	<u>December</u>
DAY AHEAD LBMP	<b>6455 44</b>	£440.00	<b>CO7 O7</b>	<b>64440</b>	<b>#</b> 20.04	<b>600.47</b>	<b>#</b> 20.02	<b>604 70</b>	<b>COO</b> 40	<b>ድ</b> ጋላ ርር	<b>#20.40</b>	<b>COT 40</b>
Price *	\$155.11	\$110.69	\$97.07	\$44.16	\$36.61	\$39.17	\$38.82	\$31.78	\$32.49	\$31.65	\$39.19	\$35.12
Standard Deviation	\$121.52	\$50.86	\$59.89	\$8.90	\$10.99	\$12.29	\$15.56	\$9.90	\$11.59	\$9.77	\$13.38	\$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
ŭ	•	·	·	·	·		·		·	•	•	
REAL TIME LBMP												
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
2000 1101g11100 1 1100	Ψ	ψ	ψυου	ψ.σ.σ.	ψοσ. 10	ψ.σ.,	ψοσ.σσ	ψοσ. το	ψοσ. 12	ψοσ.σ ι	ΨΟΙΙΙΙ	ψοσ.σσ
Average Daily Energy Sendout/Month GWh	475	460	440	390	391	456	496	470	442	394	413	433

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

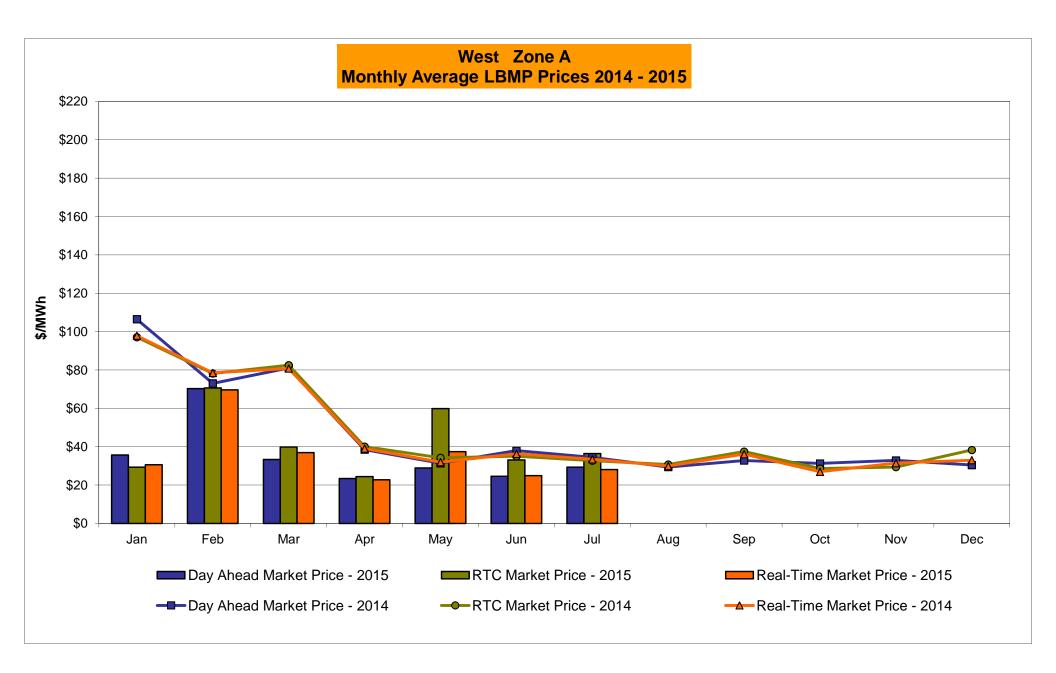


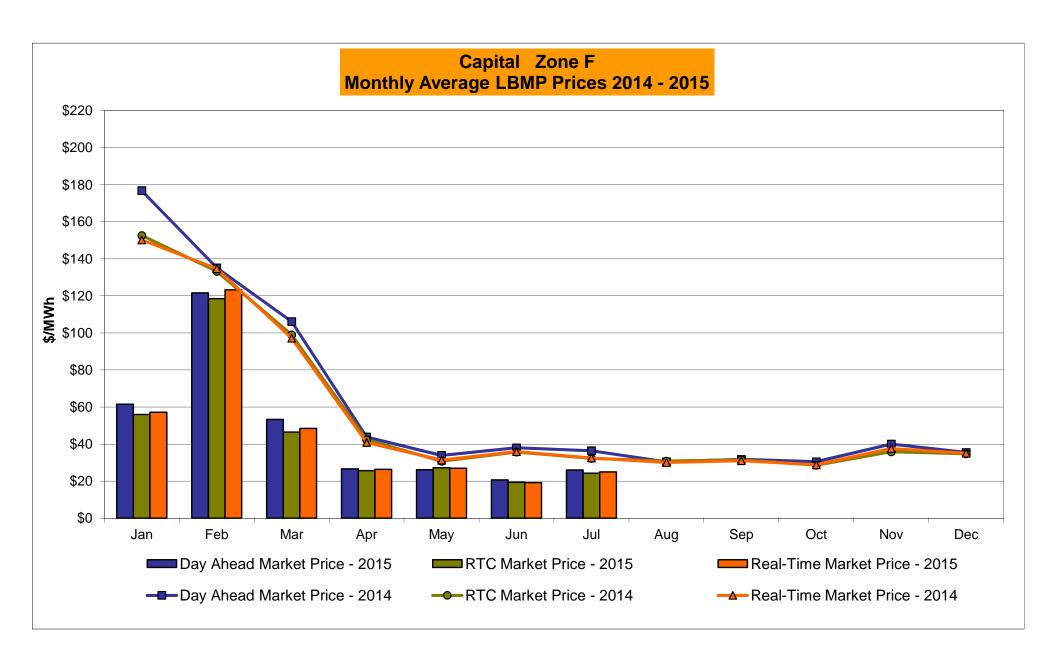
#### July 2015 Zonal LBMP Statistics for NYISO (\$/MWh)

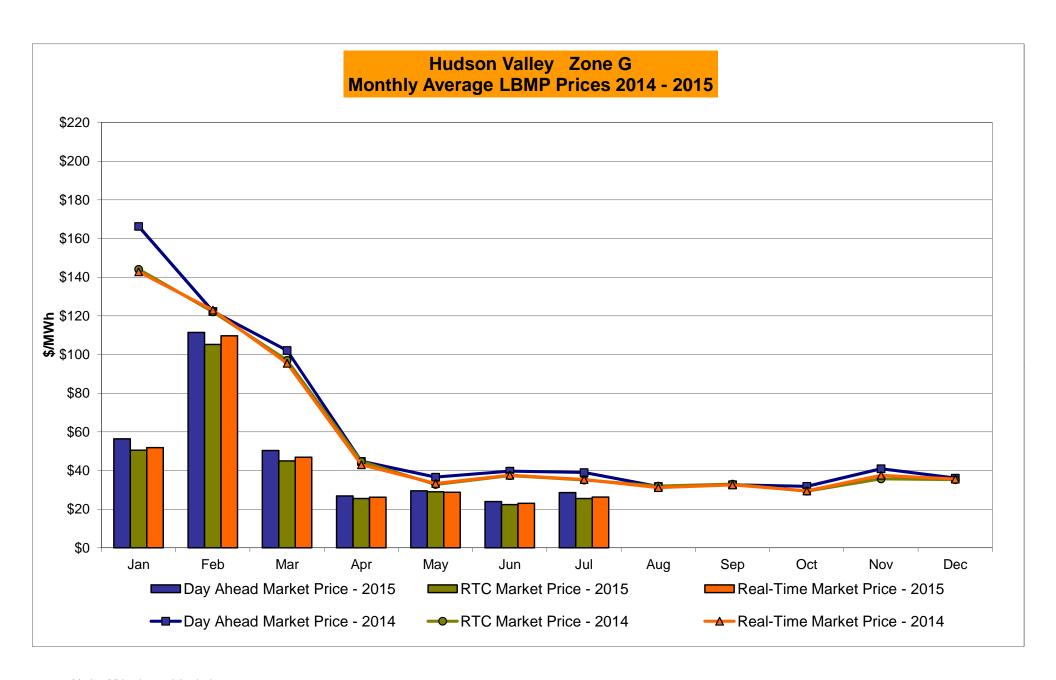
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILL WOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP	<u>==</u>			<u> </u>					<u>=</u>		<u>==</u>
Unweighted Price *	29.31	23.57	22.44	24.94	24.90	26.05	28.56	28.97	28.98	30.01	41.92
Standard Deviation	18.97	11.78	11.31	12.88	12.70	13.24	15.57	16.24	16.25	16.79	33.91
RTC LBMP											
Unweighted Price *	36.44	21.23	20.76	23.75	22.89	24.28	25.47	25.61	25.57	27.12	32.43
Standard Deviation	80.06	14.45	16.72	17.49	15.26	16.49	16.91	17.06	16.99	18.34	42.05
REAL TIME LBMP											
Unweighted Price *	28.08	22.42	21.75	23.63	23.57	24.98	26.24	26.41	26.36	28.60	33.73
Standard Deviation	34.93	15.36	15.02	17.71	16.72	19.59	20.04	20.38	20.32	22.52	45.62
		HYDRO	HVDDO			CDOCC					
		HYDRU	HIDRO			CKUSS					
	ONTARIO	QUEBEC	HYDRO QUEBEC		NEW	CROSS SOUND	NORTHPORT-				
	ONTARIO IESO	QUEBEC	_	PJM	NEW ENGLAND		NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		QUEBEC	QUEBEC	РЈМ		SOUND		NEPTUNE Controllable		HUDSON Controllable	Dennison Controllable
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND CABLE	NORWALK	_			
DAY AHEAD LBMP	IESO Zone O	QUEBEC (Wheel)	QUEBEC (Import/Export)	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	<b>Zone O</b> 22.01	QUEBEC (Wheel)  Zone M  22.68	QUEBEC (Import/Export)  Zone M  22.68	<b>Zone P</b> 27.85	ENGLAND  Zone N  27.12	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line 35.32	Controllable Line 28.92	Controllable Line 29.19	Controllable Line 21.63
	IESO Zone O	QUEBEC (Wheel)	QUEBEC (Import/Export)	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price * Standard Deviation  RTC LBMP	Zone O 22.01 10.24	QUEBEC (Wheel) Zone M 22.68 10.95	QUEBEC (Import/Export) Zone M 22.68 10.95	<b>Zone P</b> 27.85 15.42	<b>Zone N</b> 27.12 14.19	SOUND CABLE Controllable Line 39.67 26.25	NORWALK Controllable Line 30.65 14.17	Controllable Line 35.32 21.34	Controllable Line 28.92 15.96	Controllable Line 29.19 16.29	Controllable Line 21.63 10.65
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price *	Zone O 22.01 10.24	QUEBEC (Wheel) Zone M 22.68 10.95	QUEBEC (Import/Export)  Zone M  22.68 10.95	<b>Zone P</b> 27.85 15.42 28.55	<b>Zone N</b> 27.12 14.19	SOUND CABLE Controllable Line 39.67 26.25	NORWALK Controllable Line 30.65 14.17	28.60	28.92 15.96	29.19 16.29	21.63 10.65
Unweighted Price * Standard Deviation  RTC LBMP	Zone O 22.01 10.24	QUEBEC (Wheel) Zone M 22.68 10.95	QUEBEC (Import/Export) Zone M 22.68 10.95	<b>Zone P</b> 27.85 15.42	<b>Zone N</b> 27.12 14.19	SOUND CABLE Controllable Line 39.67 26.25	NORWALK Controllable Line 30.65 14.17	Controllable Line 35.32 21.34	Controllable Line 28.92 15.96	Controllable Line 29.19 16.29	Controllable Line 21.63 10.65
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	22.01 10.24 17.71 20.61	QUEBEC (Wheel) Zone M 22.68 10.95 20.68 17.69	QUEBEC (Import/Export)  Zone M  22.68 10.95  20.68 17.69	27.85 15.42 28.55 39.67	27.12 14.19 24.59 16.34	SOUND CABLE Controllable Line 39.67 26.25 30.30 34.36	NORWALK Controllable Line 30.65 14.17 28.45 31.46	28.60 27.87	28.92 15.96 24.94 14.54	29.19 16.29 25.69 16.94	21.63 10.65 20.44 16.28
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation	Zone O 22.01 10.24	QUEBEC (Wheel) Zone M 22.68 10.95	QUEBEC (Import/Export)  Zone M  22.68 10.95	<b>Zone P</b> 27.85 15.42 28.55	<b>Zone N</b> 27.12 14.19	SOUND CABLE Controllable Line 39.67 26.25	NORWALK Controllable Line 30.65 14.17	28.60	28.92 15.96	29.19 16.29	21.63 10.65

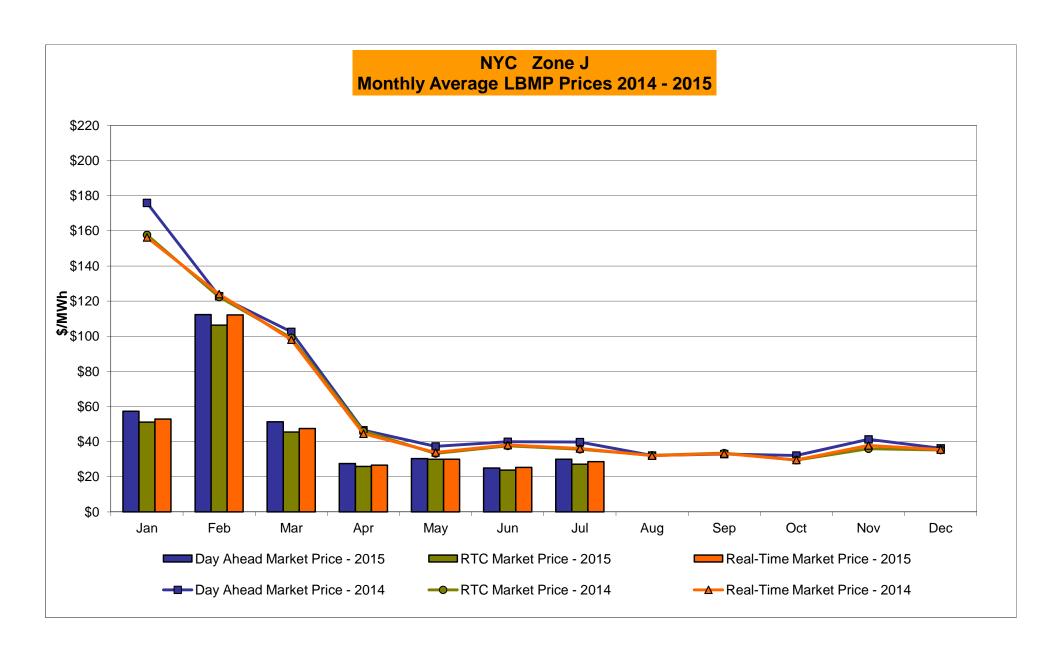
Market Mitigation and Analysis Prepared: 8/6/2015 2:57 PM

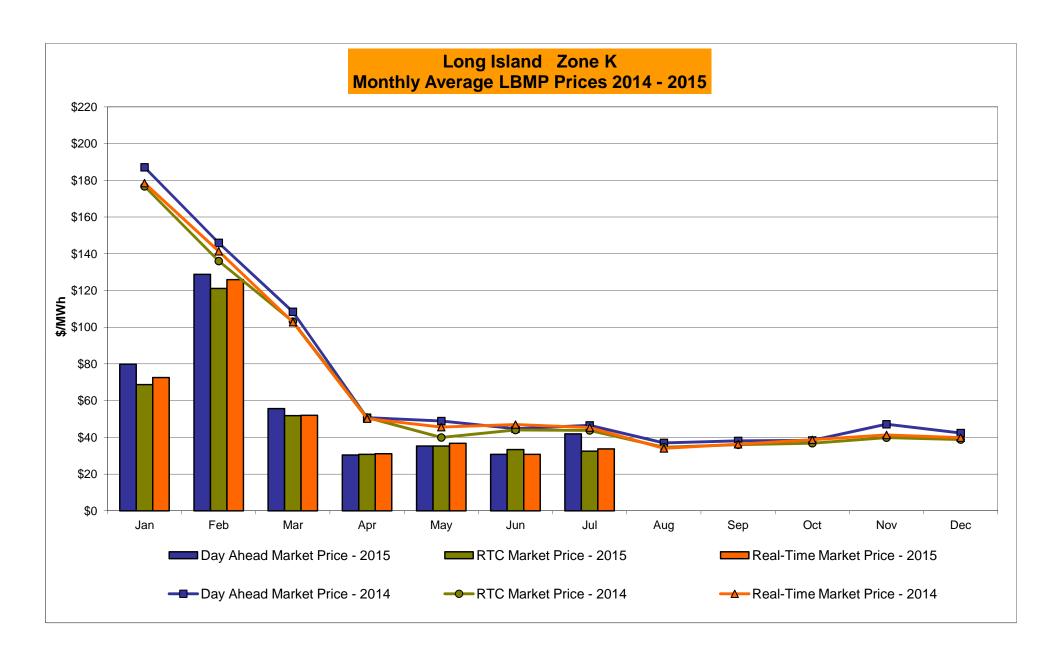
<sup>\*</sup> Straight LBMP averages

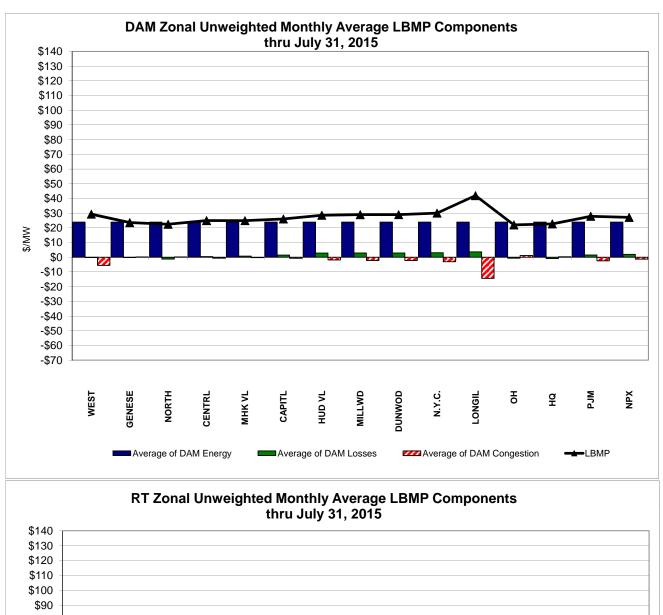


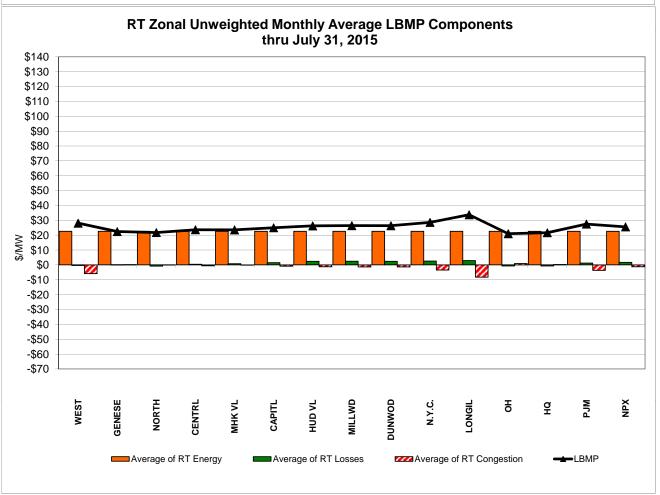




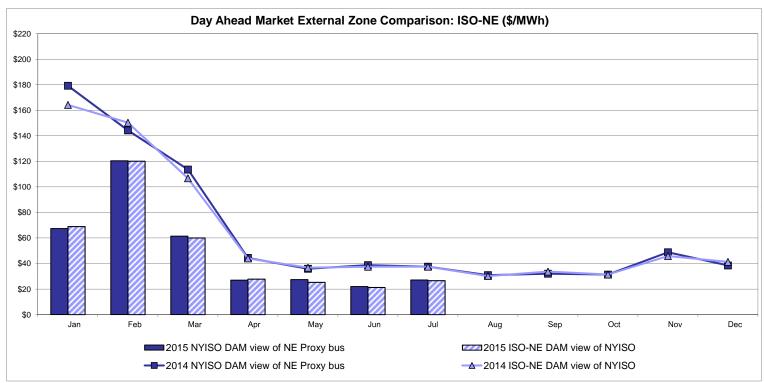


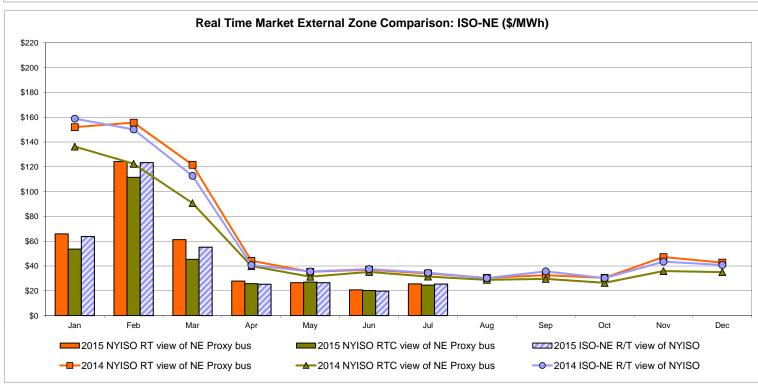




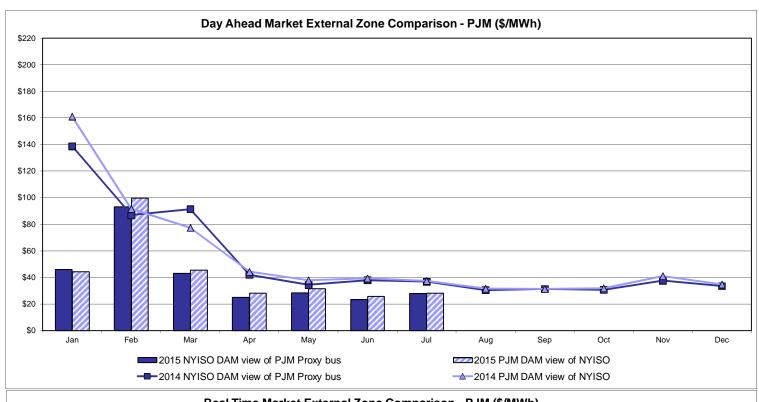


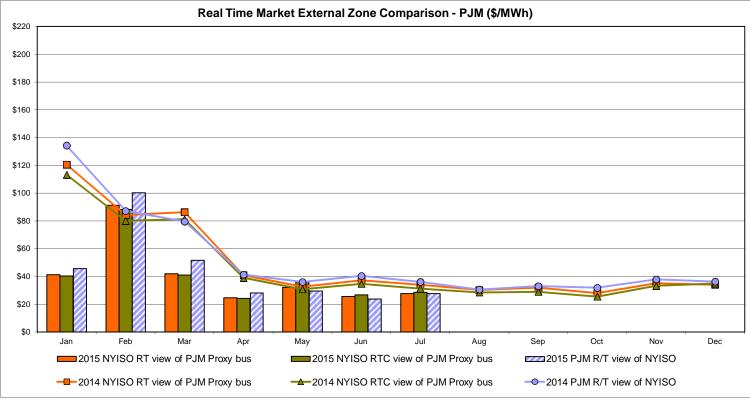
## **External Comparison ISO-New England**



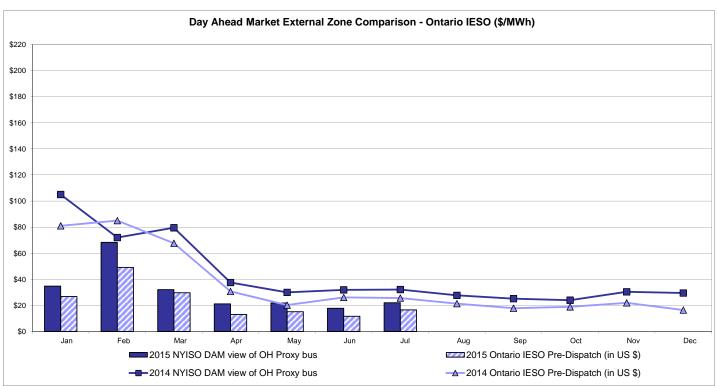


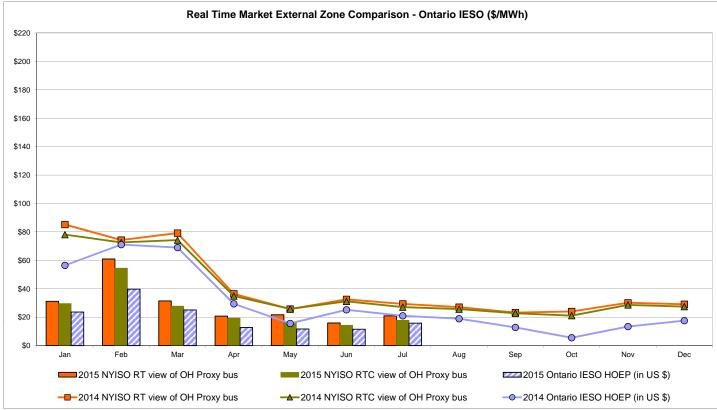
### **External Comparison PJM**





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

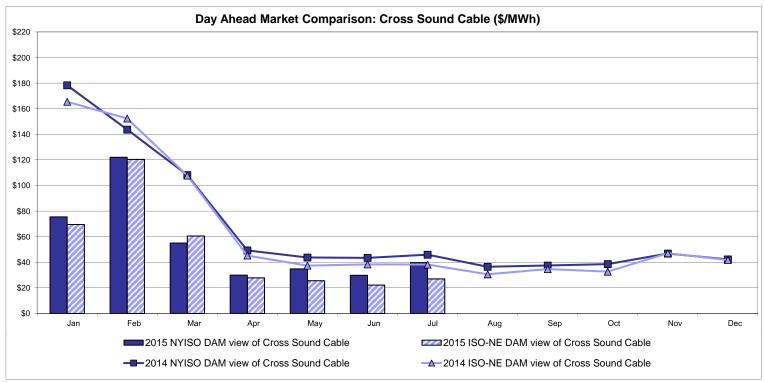


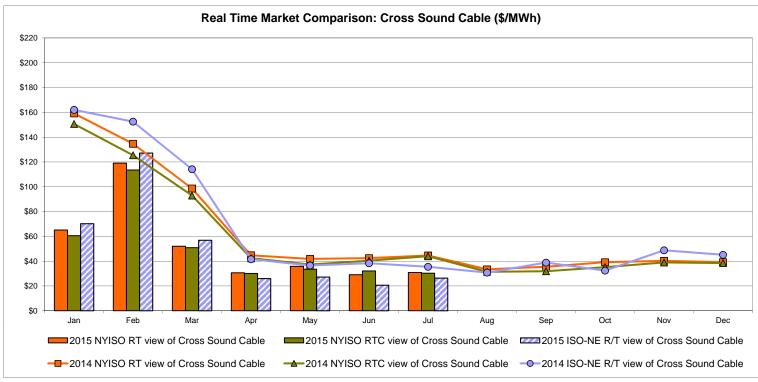


Notes: Exchange factor used for July 2015 was 0.777424 to US

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

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





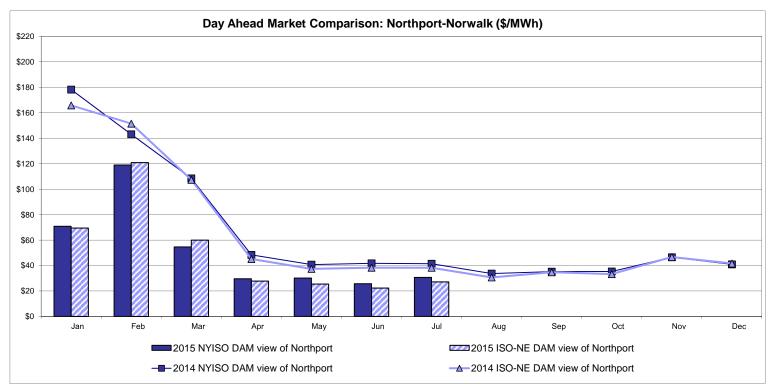
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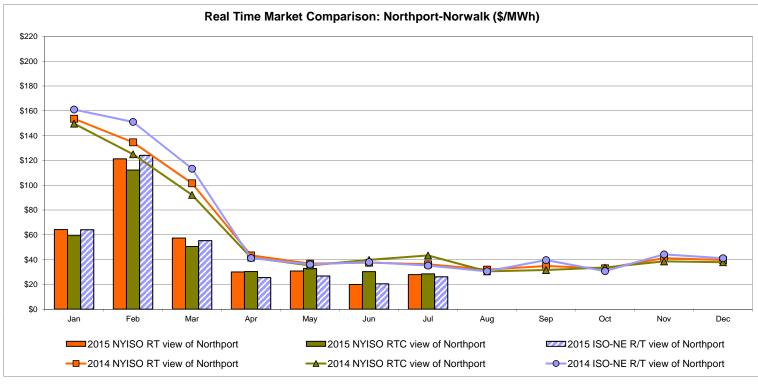
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

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





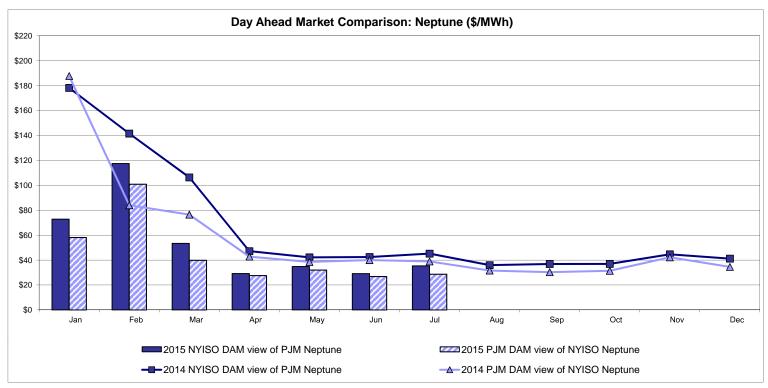
#### Note:

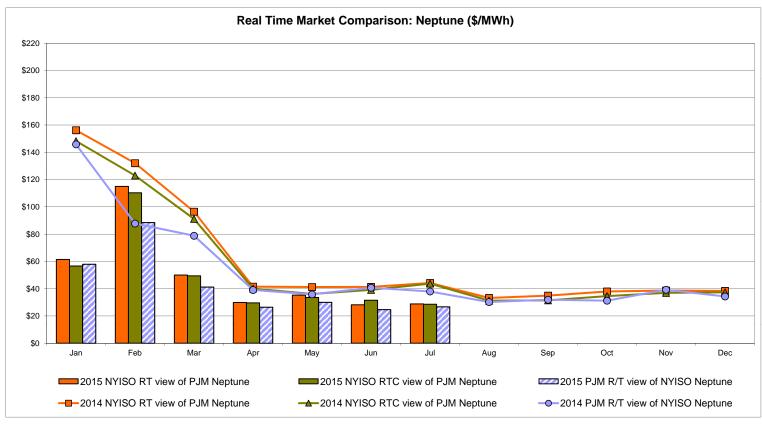
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

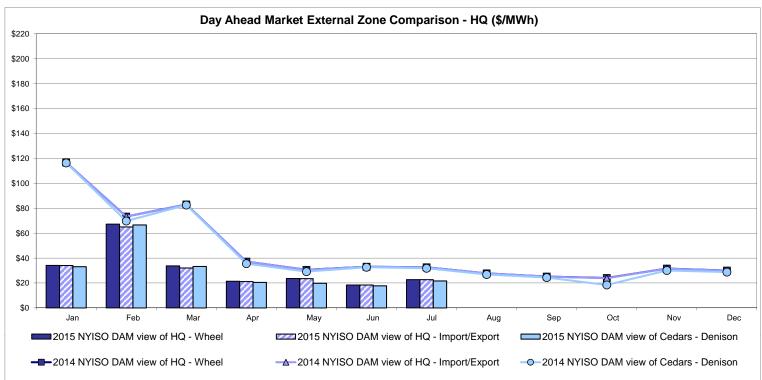
The DAM and R/T prices at the 1385 interface are used for NYISO.

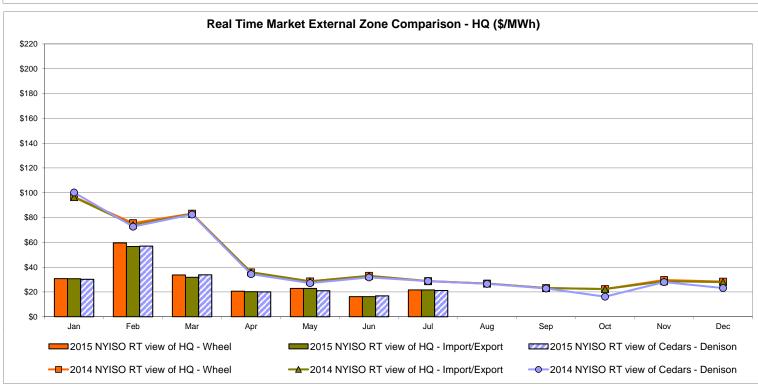
## **External Controllable Line: Neptune (PJM)**





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

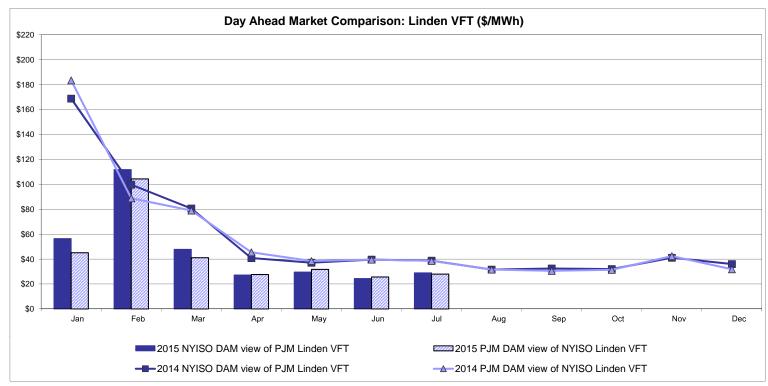


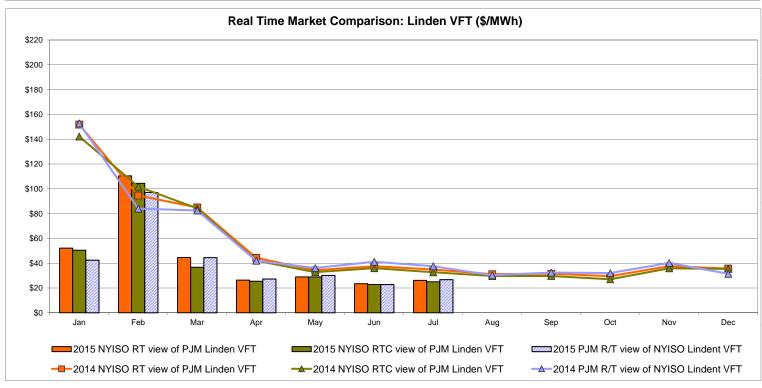


Note:

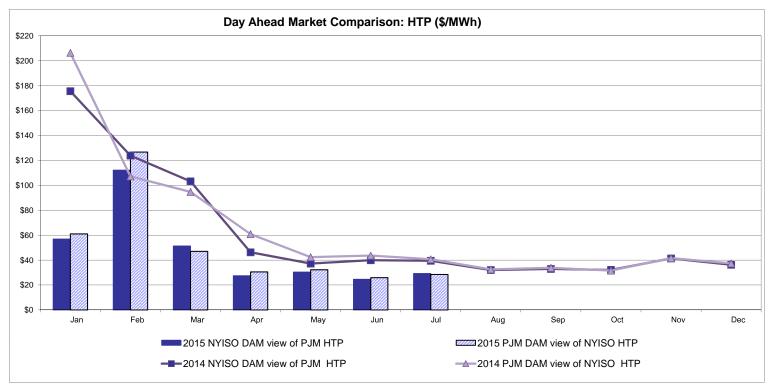
Hydro-Quebec Prices are unavailable.

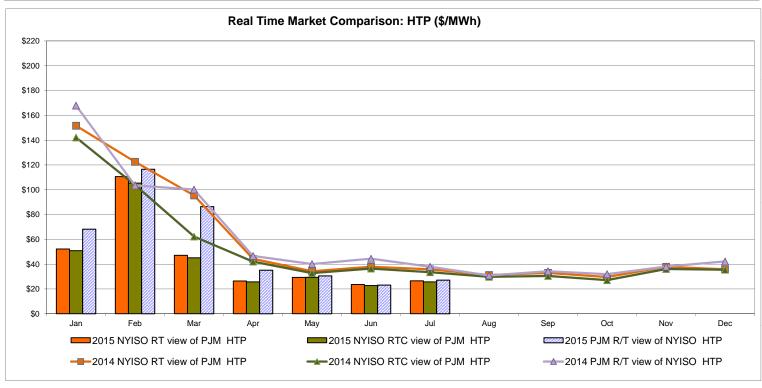
## **External Controllable Line: Linden VFT (PJM)**





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



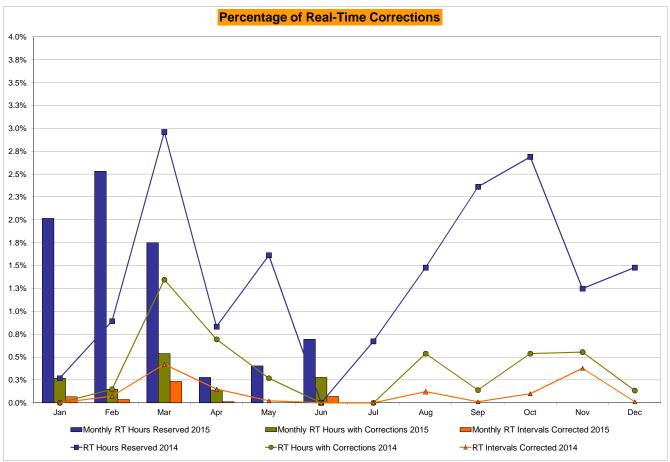


#### **NYISO Real Time Price Correction Statistics**

					O INOGI II								
2015 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
Number of hours with corrections	in the month	2	1	4	1	0	2	0					
Number of hours	in the month	744	672	743	720	744	720	744					
% of hours with corrections	in the month	0.27%	0.15%	0.54%	0.14%	0.00%	0.28%	0.00%					
% of hours with corrections	year-to-date	0.27%	0.21%	0.32%	0.28%	0.22%	0.23%	0.20%					
Interval Corrections	your to date	0.27 70	0.2170	0.0270	0.2070	0.22 /0	0.2070	0.2070					
Number of intervals corrected	in the month	6	3	21	1	0	6	0					
Number of intervals	in the month	9,066	8,231	9,005	8,696	9,032	8,731	9,025					
% of intervals corrected	in the month	0.07%	0.04%	0.23%	0.01%	0.00%	0.07%	0.00%					
% of intervals corrected	year-to-date	0.07%	0.05%	0.11%	0.09%	0.07%	0.07%	0.06%					
Hours Reserved	year-to-date	0.07%	0.05%	0.11%	0.09%	0.07%	0.07%	0.06%					
Number of hours reserved	in the month	15	17	13	2	3	5	0					
Number of hours	in the month	744	672	743	720	3 744	720	744					
	in the month	744 2.02%	2.53%	743 1.75%	720 0.28%	744 0.40%	720 0.69%	0.00%					
% of hours reserved	in the month	2.02%	2.55%	1.75%	0.26%	0.40%	0.09%	0.00%					
% of hours reserved	year-to-date	2.02%	2.26%	2.08%	1.63%	1.38%	1.27%	1.08%					
Days to Correction *													
Avg. number of days to correction	in the month	3.00	1.00	1.00	0.00	0.00	1.50	0.00					
Avg. number of days to correction	year-to-date	3.00	2.00	1.40	1.17	1.17	1.25	1.25					
Days Without Corrections													
Days without corrections	in the month	30	27	28	29	31	28	31					
Days without corrections	year-to-date	30	57	85	114	145	173	204					
2014		January	February	March	April	May	June	July	August	September	October	November	December
2014 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
	in the month	<u>January</u> 0	<u>February</u> 1	March 10	<u>April</u> 5	<u>May</u> 2	<u>June</u> 0	<u>July</u> 0	August 4	September 1	October 4	November 4	<u>December</u>
Hour Corrections	in the month	<del></del>					<u></u>	<del></del>	-				
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 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	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	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% <u>0.37%</u>
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% 0 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% 0.37% 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	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%	0 720 0.00% 0.41% 0 8,729	0 744 0.00% 0.35% 0 8,999	4 744 0.54% 0.38% 11 8,975	1 720 0.14% 0.35% 1 8,779	4 744 0.54% 0.37% 9 9,026	4 721 0.55% 0.39% 33 8,763	1 744 0.13% 0.37% 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 % of intervals corrected Hours Reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date	0 744 0.00% 0.00% 0 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%	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% 0.37% 1 9,030 0.01% 0.11%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	0 744 0.00% 0.00% 0 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% 0.37% 1 9,030 0.01% 0.11%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month the month year-to-date	0 744 0.00% 0.00% 0 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% 20 744	4 721 0.55% 0.39% 33 8,763 0.38% 0.12%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 2 744 0.27%	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 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%	0 744 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% 0.10% 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 % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month the month year-to-date	0 744 0.00% 0.00% 0 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% 20 744	4 721 0.55% 0.39% 33 8,763 0.38% 0.12%	1 744 0.13% 0.37% 1 9,030 0.01% 0.11%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	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% 0 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% 6 672 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 Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction * Avg. number of days to corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	0 744 0.00% 0.00% 0 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% 6 672 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 Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction	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% 0 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% 6 672 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 Number of hours % of hours with corrections % of hours with corrections  ## Number of intervals corrected Number of intervals corrected % of intervals corrected % of intervals corrected  ### Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved ### Avg. number of days to correction Avg. number of days to correction Days Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month year-to-date	0 744 0.00% 0.00% 0 9,232 0.00% 0.00% 2 744 0.27% 0.27% 0.00 0.00	1 672 0.15% 0.07% 6 8,205 0.07% 0.03% 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%	5 720 0.69% 0.56% 13 8,720 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%	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% 1.29	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
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction Avg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month year-to-date in the month	0 744 0.00% 0.00% 0 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% 6 672 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%

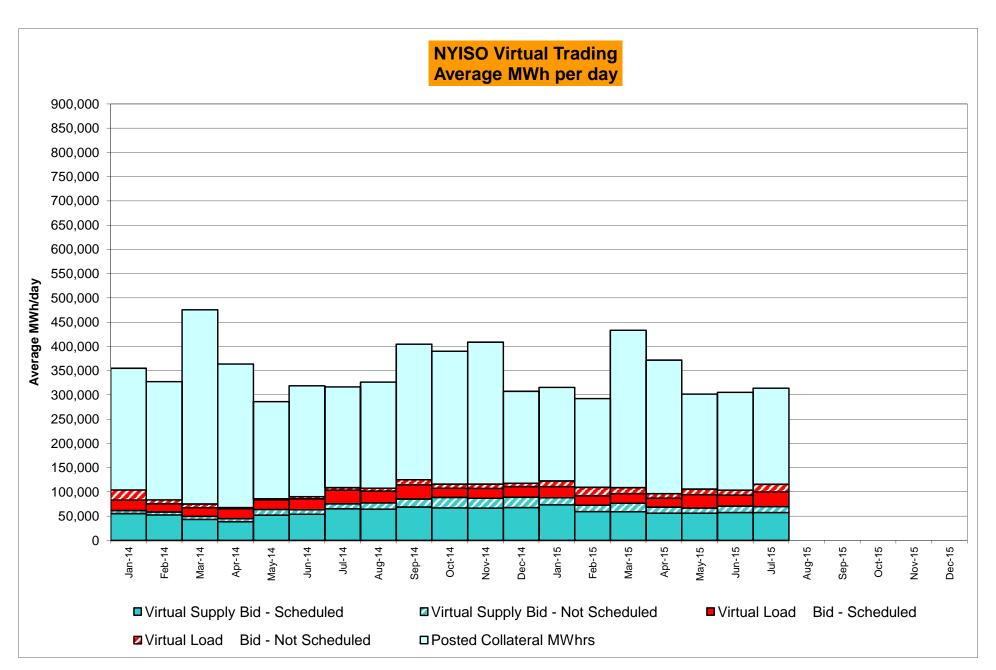
<sup>\*</sup> Calendar days from reservation date.

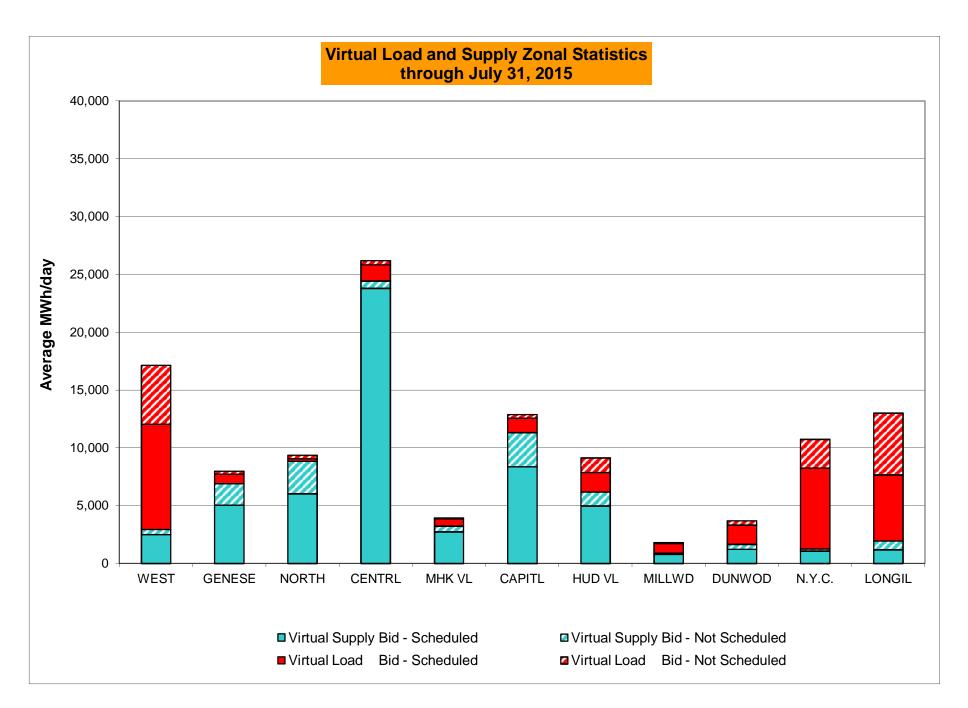
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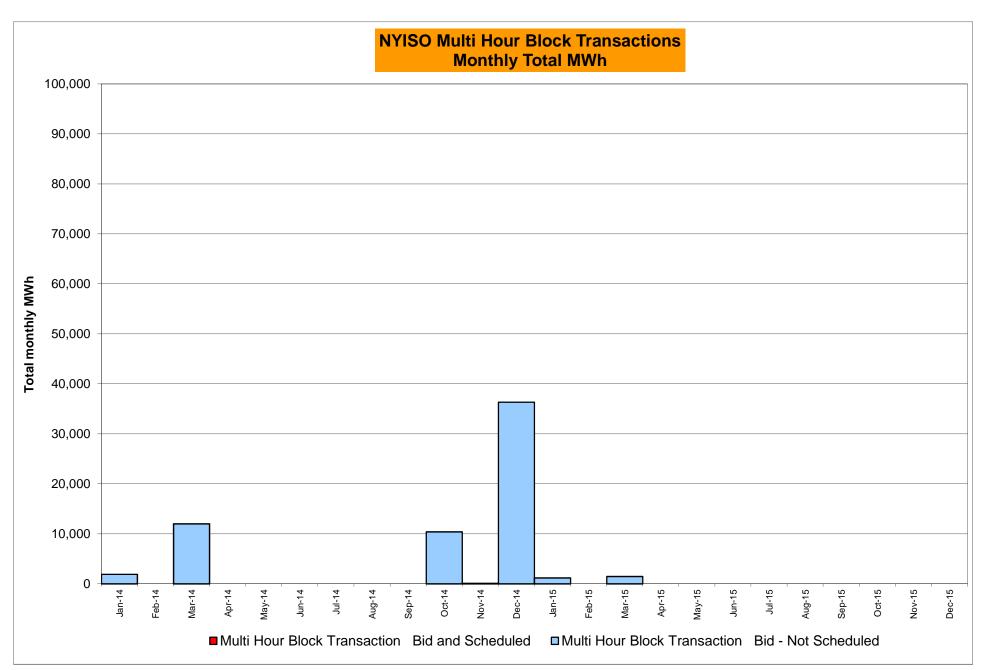
<sup>\*</sup> Calendar days from reservation date.

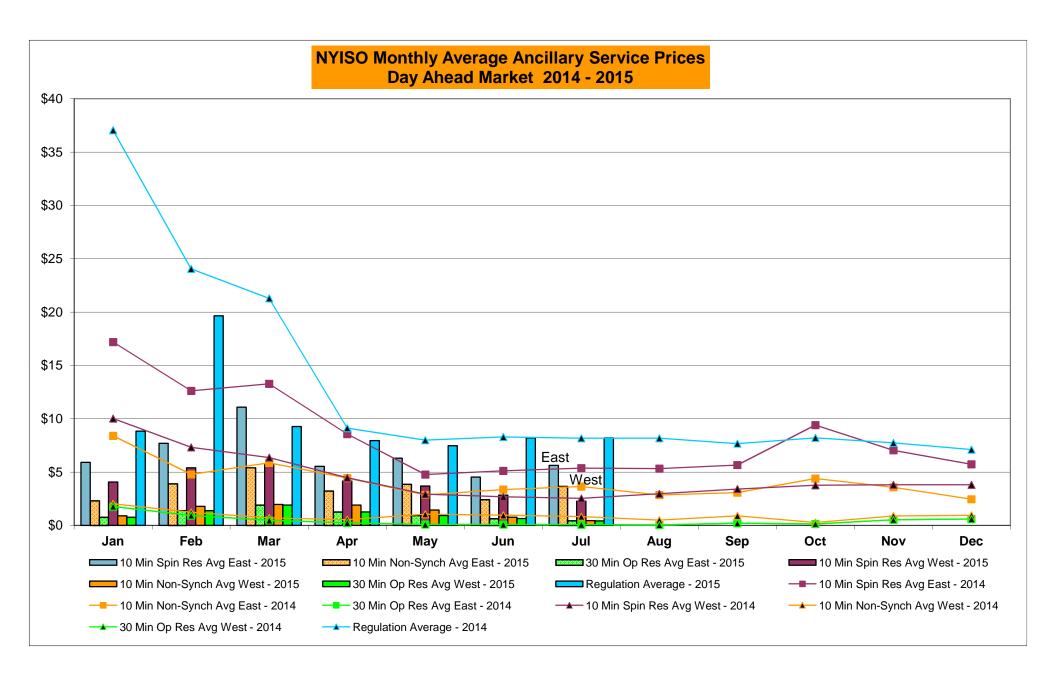


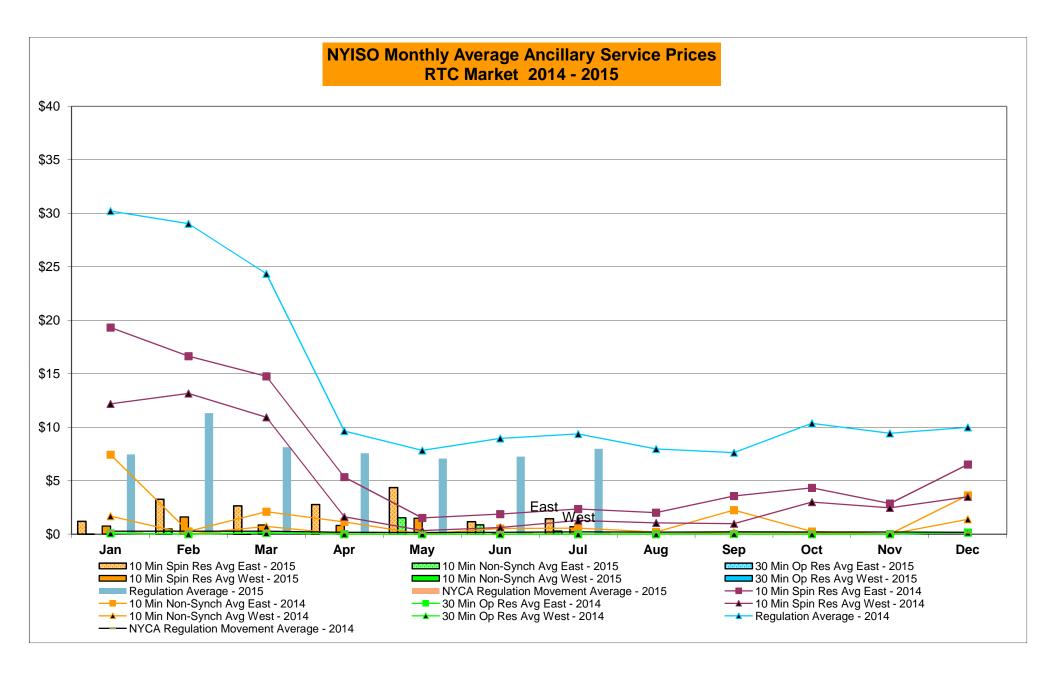


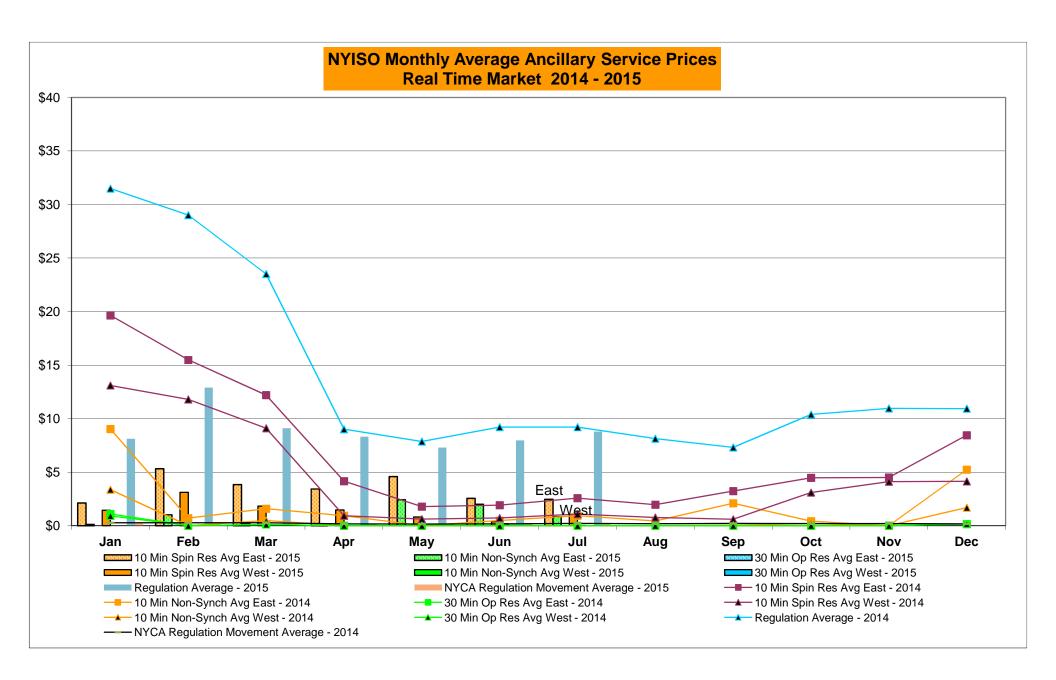
					Virtual L	oad and	Supp	ly Zonal	Statistic	s (Avera	ge MWh/da	y) - 2015					
		Virtual L		Virtual S	upply Bid			Virtual L		Virtual Su				Virtual L	_oad Bid	Virtual Su	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Not Scheduled
WEST	Jan-15	6,244	977	3,837	688	MHK VL	Jan-15	534	185	1,757	1,021	DUNWOD	Jan-15	669		831	166
WEST	Feb-15	3,180	1,570	3,288	936	WIIII VL	Feb-15	901	790	1,446	812	DONNOD	Feb-15	647		725	156
	Mar-15	5,796	1,992	,	1,223		Mar-15	626	458	2,120	718		Mar-15		566	1,224	536
	Apr-15	6,734	1,797	1,790	419		Apr-15	293	226	3,094	867		Apr-15	433		1,517	366
	May-15	9,778	3,320	1,381	465		May-15	248	102		482		May-15	1,385		904	400
	Jun-15	8,135	3,156	1,800	584		Jun-15	151	24	2,252	734		Jun-15	1,107	434	1,435	462
	Jul-15	9,099	5,102	2,521	434		Jul-15	632	70	2,726	521		Jul-15	1,674	375	1,220	427
	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				
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
GENESE	Feb-15	229	347	7,477	1,425	CAFIIL	Feb-15	3,192	3,267	6,354	2,035	N. 1.C.	Feb-15	2,944		658	690
	Mar-15	452	350		2,735		Mar-15	2,234	2,029	6,772	2,411		Mar-15	2,687		894	1,593
	Apr-15	161	254	4,771	1,991		Apr-15	1,558	991	7,368	2,215		Apr-15	2,470		808	500
	May-15	349	167	4,831	1,643		May-15	1,518	201	7,032	1,751		May-15		1,487	918	367
	Jun-15	188	229		2,115		Jun-15	563	230	8,840	2,709		Jun-15			864	494
	Jul-15	820	256		1,871		Jul-15	1,268	320	8,358	2,958		Jul-15			1,081	174
	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				
NODTU	lan 15	527	200	7.500	2.000	HUD VL	lan 15	4.000	4 747	4 700	2.422	LONGIL	lan 45	F 540	2.025	E 47	4 407
NORTH	Jan-15 Feb-15	537 274	300 423	7,590 7,361	2,868 1,898	HOD VL	Jan-15 Feb-15	1,006 769	1,747 2,147	4,703 2,841	2,133 2,800	LONGIL	Jan-15 Feb-15	5,510 4,383		547 613	1,487 1,722
	Mar-15	422	572		2,540		Mar-15	747	1,578	5,045	3,272		Mar-15	4,639		464	1,722
	Apr-15	223	366		3,243		Apr-15	1,180	1,056	6,875	1,292		Apr-15	4,039		760	678
	May-15	263	255		3,146		May-15	1,160	1,372	5,580	1,488		May-15	6,102		936	394
	Jun-15	169	196		2,977		Jun-15	825	914	5,600	1,251		Jun-15	6,015		768	792
	Jul-15	233	291	6,047	2,798		Jul-15	1.700	1.241	4.983	1,200		Jul-15	5,715		1,191	766
	Aug-15	230	231	3,517	2,. 33		Aug-15	.,. 50	.,	.,550	,,200		Aug-15		5,510	.,.51	. 30
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				
CENTS	low 45	0.444	000	00.400	770	MILLIANS	le: 45	440	011	740	400	NVICO	la:: 45	00.050	44 774	70.404	44740
CENTRL	Jan-15 Feb-15	2,414 2,306	939 1,265		776 579	MILLWD	Jan-15 Feb-15	418 562	244 674	716 627	192 186	NYISO	Jan-15 Feb-15	22,958 19,386		73,161 59,440	14,746 13,238
	Mar-15	1,168	538		587		Mar-15	377	389	947	287	-	Mar-15	19,386		59,440	17,619
	Apr-15	927	311		588		Apr-15	174	239	947	298	$\dashv$	Apr-15	18,550		56,234	12,458
	May-15	908	249		400		May-15	497	126		298		May-15			56,234	12,458
	Jun-15	1,104	194		791		Jun-15	588	24	790	277	+	Jun-15	22,528		57,608	13,186
	Jul-15	1,401	358		636		Jul-15	866	45		121		Jul-15			57,752	11,905
	Aug-15	1,101	550	20,000	555		Aug-15		+5	7.0	121		Aug-15		10,000	31,132	11,000
	Sep-15						Sep-15						Sep-15				
	Oct-15						Oct-15						Oct-15				
	Nov-15						Nov-15						Nov-15				
	Dec-15						Dec-15						Dec-15				

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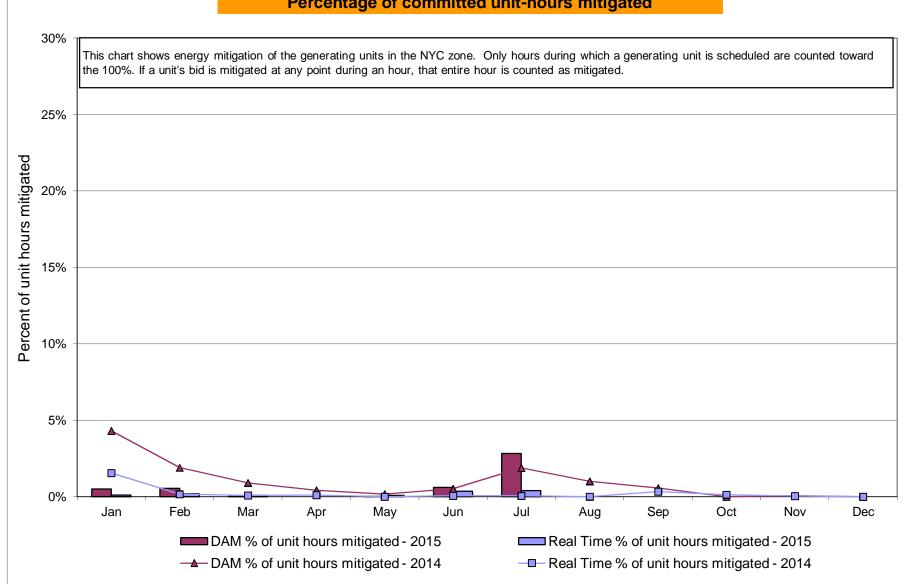


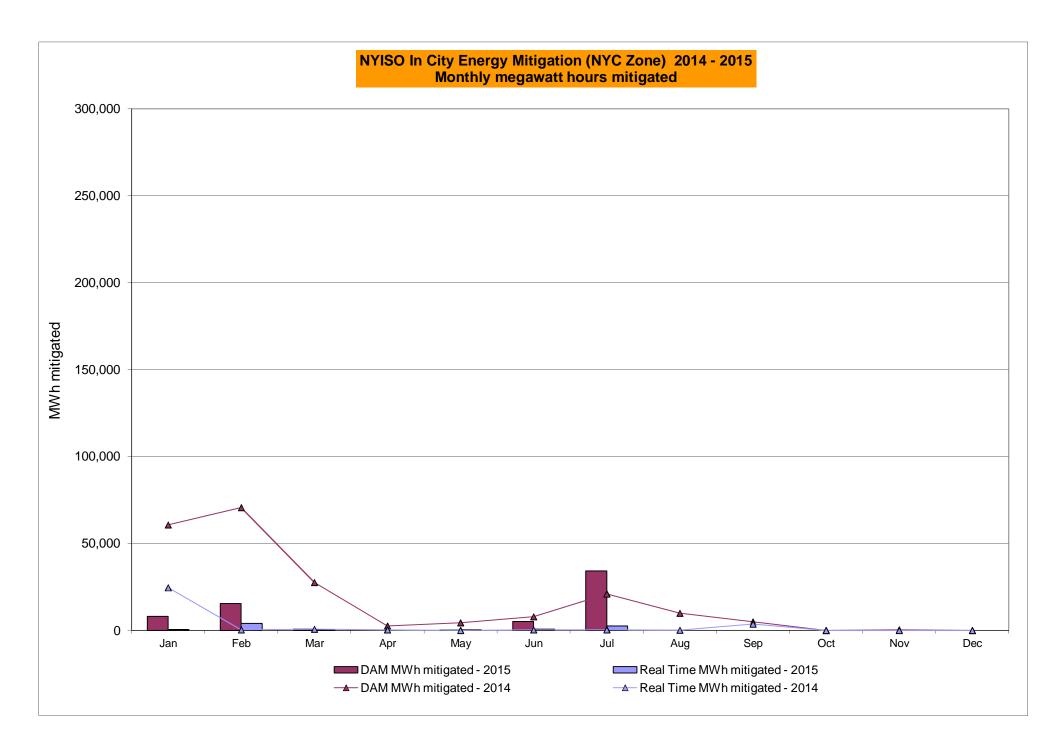


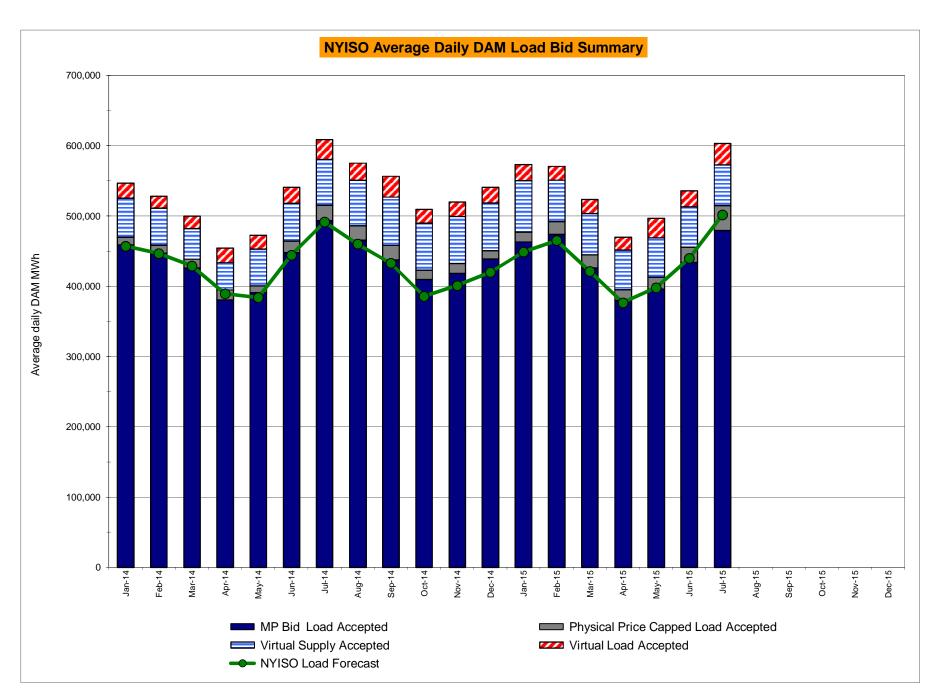
#### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

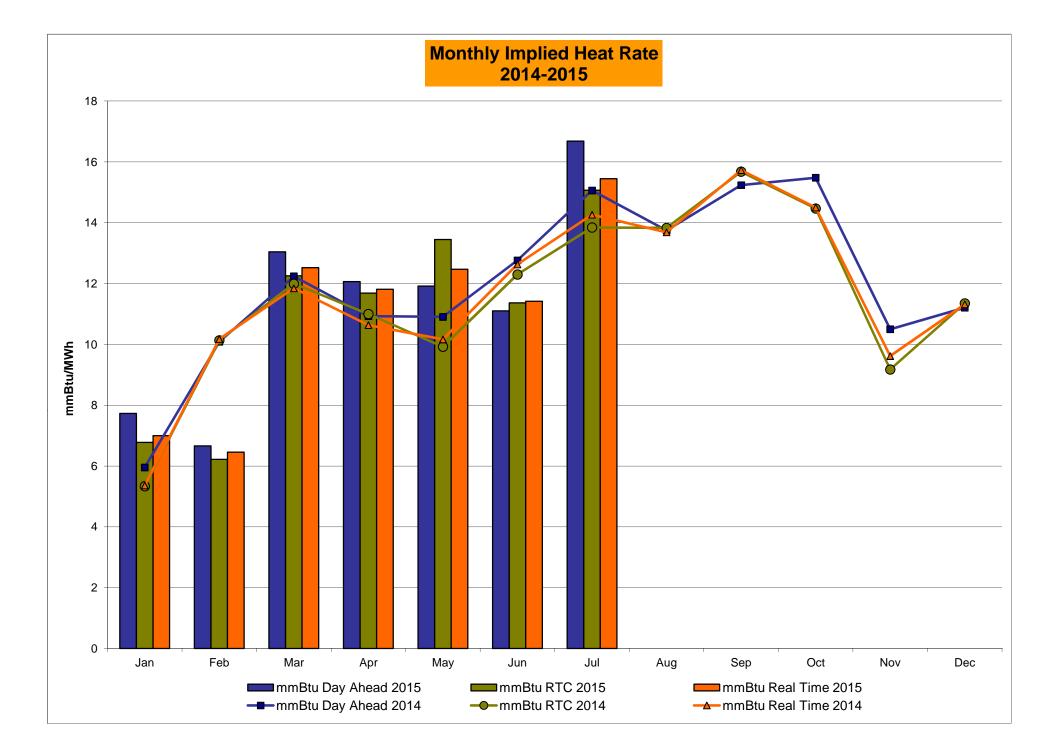
	_			-		_						
<u>2015</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market												
10 Min Spin East	5.92	7.69	11.09	5.53	6.31	4.53	5.62					
10 Min Spin West	4.07	5.40	5.68	4.16	3.69	2.84	2.26					
10 Min Non Synch East	2.30	3.89	5.40	3.22	3.84	2.42	3.66					
10 Min Non Synch West	0.90	1.79	1.97	1.91	1.45	0.77	0.45					
30 Min East	0.90	1.38	1.91	1.26	0.93	0.64	0.43					
30 Min West	0.77	1.38	1.91	1.26	0.93	0.64	0.43					
Regulation	8.84	19.65	9.27	7.94	7.48	8.20	8.20					
RTC Market												
10 Min Spin East	1.20	3.27	2.64	2.77	4.36	1.18	1.44					
10 Min Spin West	0.74	1.61	0.86	0.81	1.48	0.04	0.69					
10 Min Non Synch East	0.74	0.48	0.01	0.00	1.54	0.87	0.28					
•												
10 Min Non Synch West	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
30 Min East	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
30 Min West	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Regulation	7.45	11.32	8.13	7.56	7.06	7.24	7.97					
NYCA Regulation Movement	0.21	0.21	0.16	0.22	0.16	0.24	0.25					
Real Time Market												
	2.42	F 24	2.04	2.44	4.50	0.50	0.47					
10 Min Spin East	2.12	5.31	3.84	3.44	4.59	2.56	2.47					
10 Min Spin West	1.44	3.11	1.83	1.46	0.81	0.38	1.04					
10 Min Non Synch East	0.12	1.03	0.17	0.01	2.41	2.01	0.83					
10 Min Non Synch West	0.00	0.00	0.00	0.00	0.00	0.19	0.00					
30 Min East	0.00	0.00	0.00	0.00	0.00	0.02	0.00					
30 Min West	0.00	0.00	0.00	0.00	0.00	0.02	0.00					
Regulation	8.12	12.91	9.11	8.32	7.30	7.97	8.80					
NYCA Regulation Movement	0.20	0.21	0.17	0.15	0.16	0.24	0.24					
						Lucia a	L.L.		0	0-1-1	Name and an	Danashaa
<u>2014</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	<u>December</u>
Day Ahead Market	-				-		-	_	•			
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
Day Ahead Market 10 Min Spin East 10 Min Spin West	17.19 10.02	12.62 7.32	13.27 6.36	8.57 4.47	4.77 2.92	5.11 2.69	5.37 2.54	5.33 2.96	5.66 3.41	9.41 3.76	7.04 3.82	5.73 3.82
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East	17.19 10.02 8.40	12.62 7.32 4.78	13.27 6.36 5.86	8.57 4.47 4.44	4.77 2.92 2.86	5.11 2.69 3.37	5.37 2.54 3.65	5.33 2.96 2.85	5.66 3.41 3.08	9.41 3.76 4.40	7.04 3.82 3.58	5.73 3.82 2.45
Day Ahead Market 10 Min Spin East 10 Min Spin West	17.19 10.02 8.40 2.02	12.62 7.32	13.27 6.36	8.57 4.47	4.77 2.92	5.11 2.69	5.37 2.54	5.33 2.96	5.66 3.41	9.41 3.76	7.04 3.82	5.73 3.82 2.45 0.95
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East	17.19 10.02 8.40	12.62 7.32 4.78	13.27 6.36 5.86	8.57 4.47 4.44	4.77 2.92 2.86	5.11 2.69 3.37	5.37 2.54 3.65	5.33 2.96 2.85	5.66 3.41 3.08	9.41 3.76 4.40	7.04 3.82 3.58	5.73 3.82 2.45
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West	17.19 10.02 8.40 2.02	12.62 7.32 4.78 1.23	13.27 6.36 5.86 0.70	8.57 4.47 4.44 0.55	4.77 2.92 2.86 1.06	5.11 2.69 3.37 0.96	5.37 2.54 3.65 0.83	5.33 2.96 2.85 0.49	5.66 3.41 3.08 0.91	9.41 3.76 4.40 0.27	7.04 3.82 3.58 0.89	5.73 3.82 2.45 0.95
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East	17.19 10.02 8.40 2.02 1.77	12.62 7.32 4.78 1.23 0.93	13.27 6.36 5.86 0.70 0.47	8.57 4.47 4.44 0.55 0.24	4.77 2.92 2.86 1.06 0.09	5.11 2.69 3.37 0.96 0.08	5.37 2.54 3.65 0.83 0.08	5.33 2.96 2.85 0.49 0.04	5.66 3.41 3.08 0.91 0.21	9.41 3.76 4.40 0.27 0.14	7.04 3.82 3.58 0.89 0.53	5.73 3.82 2.45 0.95 0.60
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West  Regulation	17.19 10.02 8.40 2.02 1.77 1.77	12.62 7.32 4.78 1.23 0.93 0.93	13.27 6.36 5.86 0.70 0.47 0.47	8.57 4.47 4.44 0.55 0.24	4.77 2.92 2.86 1.06 0.09 0.09	5.11 2.69 3.37 0.96 0.08 0.08	5.37 2.54 3.65 0.83 0.08 0.08	5.33 2.96 2.85 0.49 0.04 0.04	5.66 3.41 3.08 0.91 0.21	9.41 3.76 4.40 0.27 0.14 0.14	7.04 3.82 3.58 0.89 0.53 0.53	5.73 3.82 2.45 0.95 0.60 0.60
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East Regulation  RTC Market	17.19 10.02 8.40 2.02 1.77 1.77 37.05	12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29	8.57 4.47 4.44 0.55 0.24 0.24 9.12	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18	5.33 2.96 2.85 0.49 0.04 0.04 8.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67	9.41 3.76 4.40 0.27 0.14 0.14 8.21	7.04 3.82 3.58 0.89 0.53 0.53 7.74	5.73 3.82 2.45 0.95 0.60 0.60 7.12
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min East  30 Min West  Regulation  RTC Market  10 Min Spin East	17.19 10.02 8.40 2.02 1.77 1.77 37.05	12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29	8.57 4.47 4.44 0.55 0.24 0.24 9.12	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18	5.33 2.96 2.85 0.49 0.04 0.04 8.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67	9.41 3.76 4.40 0.27 0.14 0.14 8.21	7.04 3.82 3.58 0.89 0.53 0.53 7.74	5.73 3.82 2.45 0.95 0.60 0.60 7.12
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West	17.19 10.02 8.40 2.02 1.77 1.77 37.05	12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18	5.33 2.96 2.85 0.49 0.04 0.04 8.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99	7.04 3.82 3.58 0.89 0.53 0.53 7.74	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min East  30 Min West  Regulation  RTC Market  10 Min Spin East	17.19 10.02 8.40 2.02 1.77 1.77 37.05	12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29	8.57 4.47 4.44 0.55 0.24 0.24 9.12	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18	5.33 2.96 2.85 0.49 0.04 0.04 8.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67	9.41 3.76 4.40 0.27 0.14 0.14 8.21	7.04 3.82 3.58 0.89 0.53 0.53 7.74	5.73 3.82 2.45 0.95 0.60 0.60 7.12
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West	17.19 10.02 8.40 2.02 1.77 1.77 37.05	12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61	4.77 2.92 2.86 1.06 0.09 0.09 7.99	5.11 2.69 3.37 0.96 0.08 0.08 8.30	5.37 2.54 3.65 0.83 0.08 0.08 8.18	5.33 2.96 2.85 0.49 0.04 0.04 8.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99	7.04 3.82 3.58 0.89 0.53 0.53 7.74	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West  Regulation  RTC Market  10 Min Spin East  10 Min Spin West  10 Min Spin West  10 Min Non Synch East	17.19 10.02 8.40 2.02 1.77 1.77 37.05	12.62 7.32 4.78 1.23 0.93 0.93 24.05	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55	5.33 2.96 2.85 0.49 0.04 0.04 8.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62
Day Ahead Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch West  30 Min East  30 Min West  Regulation  RTC Market  10 Min Spin East  10 Min Spin West  10 Min Non Synch East  10 Min Non Synch East  10 Min Non Synch West	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East 30 Min West Regulation	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 9.42	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 7.83 0.15	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 9.42 0.20	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 0.00 7.83	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97	5.66 3.41 3.08 0.91 0.21 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 9.42	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement Real Time Market	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 7.83 0.15	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 0.00 9.42 0.20	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement  Real Time Market 10 Min Spin East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 7.83 0.15	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20	7.04 3.82 3.58 0.89 0.53 0.53 7.74  2.86 2.46 0.00 0.00 0.00 0.00 9.42 0.20	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement  Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 0.00 29.03 0.27	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 7.83 0.15	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21 2.57 1.08 0.92	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18	5.66 3.41 3.08 0.91 0.21 0.21 7.67  3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21  3.23 0.60 2.09	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47 3.10 0.42	7.04 3.82 3.58 0.89 0.53 0.53 7.74  2.86 2.46 0.00 0.00 0.00 0.00 9.42 0.20  4.51 4.12 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 0.15 9.99 0.17
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement  Real Time Market 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin East	17.19 10.02 8.40 2.02 1.77 1.77 37.05  19.32 12.18 7.43 1.68 0.08 30.21 0.28  19.64 13.10 9.03 3.37	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 0.00 9.64 0.17	4.77 2.92 2.86 1.06 0.09 0.09 7.99  1.52 0.33 0.00 0.00 0.00 0.00 7.83 0.15  1.78 0.61 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00	5.33 2.96 2.85 0.49 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18	5.66 3.41 3.08 0.91 0.21 7.67 3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47 3.10 0.42 0.20	7.04 3.82 3.58 0.89 0.53 0.53 7.74  2.86 2.46 0.00 0.00 0.00 9.42 0.20  4.51 4.12 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min East 30 Min West Regulation NYCA Regulation Movement  Real Time Market 10 Min Spin East 10 Min Spin West	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27	13.27 6.36 5.86 0.70 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99 1.52 0.33 0.00 0.00 0.00 7.83 0.15	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 8.95 0.17	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67  3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21  3.23 0.60 2.09 0.05 0.00	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47 3.10 0.42 0.20 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74 2.86 2.46 0.00 0.00 0.00 9.42 0.20 4.51 4.12 0.00 0.00 0.00	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min West Regulation NYCA Regulation Movement  Real Time Market 10 Min Spin East 10 Min Spin Hest 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00 0.00	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11 0.11	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99  1.52 0.33 0.00 0.00 0.00 7.83 0.15  1.78 0.61 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67  3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21  3.23 0.60 2.09 0.05 0.00 0.00	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47 3.10 0.42 0.20 0.00 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74  2.86 2.46 0.00 0.00 0.00 9.42 0.20  4.51 4.12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14 5.23 1.69 0.16
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation NYCA Regulation Movement  Real Time Market 10 Min Spin West 10 Min Spin East 10 Min Spin Heast 10 Min Spin West 10 Min Non Synch East 10 Min West Regulation	17.19 10.02 8.40 2.02 1.77 1.77 37.05  19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28  19.64 13.10 9.03 3.37 1.10 0.92 31.50	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11 0.11 23.52	8.57 4.47 4.44 0.55 0.24 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99  1.52 0.33 0.00 0.00 0.00 7.83 0.15  1.78 0.61 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00 0.00 0.00 0.00 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00 9.21	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00 0.00 0.00 0.00 0.04	5.66 3.41 3.08 0.91 0.21 0.21 7.67  3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21  3.23 0.60 2.09 0.05 0.00 0.00 7.31	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47 3.10 0.42 0.20 0.00 0.00 10.39	7.04 3.82 3.58 0.89 0.53 0.53 7.74  2.86 2.46 0.00 0.00 0.00 9.42 0.20  4.51 4.12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	5.73 3.82 2.45 0.95 0.60 0.60 7.12  6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17  8.45 4.14 5.23 1.69 0.16 0.16 10.94
Day Ahead Market  10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation  RTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min West Regulation NYCA Regulation Movement  Real Time Market 10 Min Spin East 10 Min Spin Hest 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East	17.19 10.02 8.40 2.02 1.77 1.77 37.05 19.32 12.18 7.43 1.68 0.08 0.08 30.21 0.28	12.62 7.32 4.78 1.23 0.93 0.93 24.05 16.64 13.16 0.26 0.00 0.00 29.03 0.27 15.48 11.80 0.70 0.00 0.00	13.27 6.36 5.86 0.70 0.47 0.47 21.29 14.76 10.93 2.10 0.72 0.12 24.35 0.26 12.19 9.11 1.59 0.48 0.11 0.11	8.57 4.47 4.44 0.55 0.24 9.12 5.34 1.61 1.14 0.00 0.00 9.64 0.17 4.15 0.94 0.93 0.00 0.00 0.00	4.77 2.92 2.86 1.06 0.09 0.09 7.99  1.52 0.33 0.00 0.00 0.00 7.83 0.15  1.78 0.61 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.11 2.69 3.37 0.96 0.08 0.08 8.30 1.87 0.61 0.52 0.00 0.00 0.00 8.95 0.17 1.92 0.72 0.48 0.00 0.00 0.00	5.37 2.54 3.65 0.83 0.08 0.08 8.18 2.35 1.27 0.55 0.00 0.00 9.36 0.21 2.57 1.08 0.92 0.00 0.00 0.00	5.33 2.96 2.85 0.49 0.04 0.04 8.18 2.00 1.04 0.20 0.00 0.00 7.97 0.18 1.96 0.76 0.44 0.00 0.00 0.00	5.66 3.41 3.08 0.91 0.21 0.21 7.67  3.57 0.98 2.25 0.17 0.02 0.02 7.62 0.21  3.23 0.60 2.09 0.05 0.00 0.00	9.41 3.76 4.40 0.27 0.14 0.14 8.21 4.32 2.99 0.25 0.13 0.00 0.00 10.36 0.20 4.47 3.10 0.42 0.20 0.00 0.00	7.04 3.82 3.58 0.89 0.53 0.53 7.74  2.86 2.46 0.00 0.00 0.00 9.42 0.20  4.51 4.12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	5.73 3.82 2.45 0.95 0.60 0.60 7.12 6.51 3.48 3.62 1.39 0.15 0.15 9.99 0.17 8.45 4.14 5.23 1.69 0.16



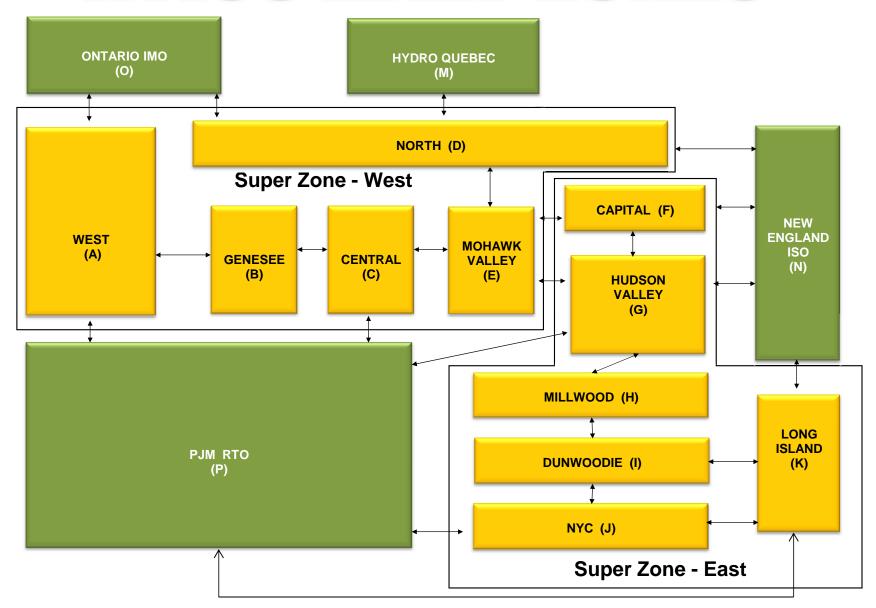








# NYISO LBMP ZONES

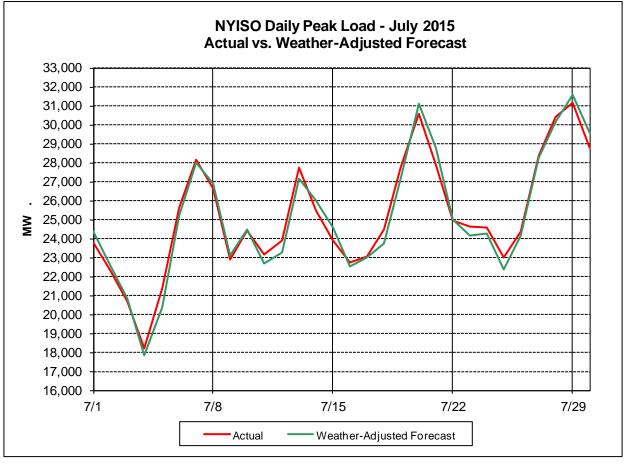


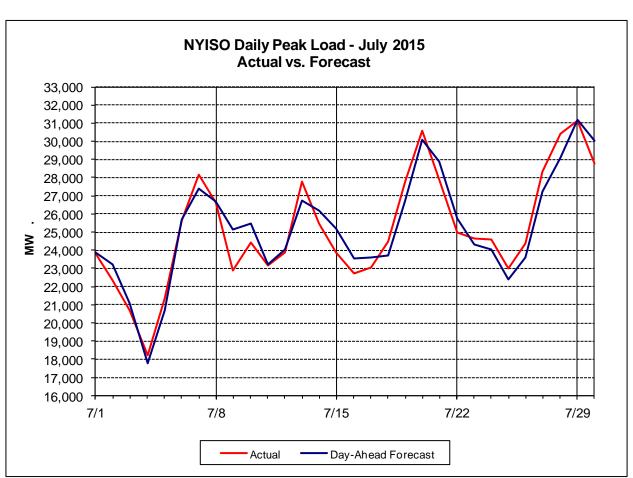
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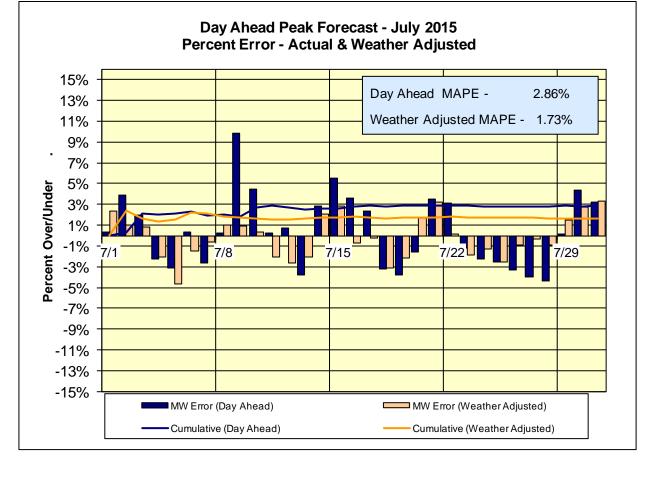
#### **Billing Codes for Chart 4-C**

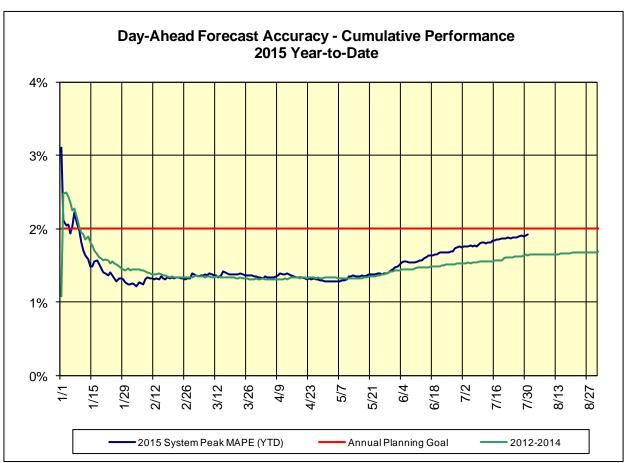
Chart - C Category Name	Billing Code	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee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

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

Filing Date	Filing Summary	Docket	Order Date	Order Summary
06/10/2015	NYISO filing re: executed LGIA (SA No. 2214) among NYISO, NYPA and CPV Valley	ER15-1895-000	07/16/2015	FERC letter order accepted the LGIA effective 05/28/2015, as requested
07/02/2015	NYISO filing on behalf of NYPA re: a transmission formula rate template and implementation protocols to determine NYPA's annual transmission revenue requirement in order to recover NYPA's costs for transmission services provided under the NYISO OATT	ER15-2102-000		
07/08/2015	NYISO filing, on behalf of National Grid, re: an amended and restated large generator interconnection agreement (SA 1160) between National Grid and Sithe Independence Power partners	ER15-2127-000		
07/08/2015	NYISO filing, on behalf of National Grid re: cost reimbursement agreement (SA 2223) between National Grid and RG&E	ER15-2128-000		
07/10/2015	NYISO compliance filing re: submission of a copy of the Consolidated Edison System Restoration Plan	ER12-2568-000		
07/13/1205	NYISO/NYTO joint compliance filing re: Order No. 1000 interregional tariff revisions	ER13-1942-001		
07/13/2015	NYISO filing Re: designation of ISO New England as the filing party for the Northeastern Planning Protocol	ER13-1046-001		
07/17/2015	NYISO errata filing, on behalf of National Grid, re: an amended and restated LGIA between National Grid and Sithe/Independence Power Partners	ER15-2127-001		
07/20/2015	NYISO compliance filing re: waiver of certain NAESB WEQ Version 003 Business Practice Standards	ER15-2226-000		
07/23/2015	NYISO compliance filing re: explanation of how the NYISO's Day-Ahead scheduling practices satisfy the timing requirements of Order 809 regarding the coordination of scheduling processes of interstate natural gas pipelines and public utilities	EL14-26-000		
07/23/2015	NYISO filing to the PSC re: copy of its 07/20/2015 technical conference presentation entitled "AC Transmission Cases Powerflow Analysis"	PSC Case No. 112-T-0502		

07/27/2015	NYISO filing re: small generator interconnection agreement among NYISO, NMPC and Monroe County	ER15-2285-000	
07/27/2015	NYISO, MISO, ISO-NE, and PJM joint filing re: comments concerning the NOPR proposing approval of reliability standard TPL-007-1 - Transmission System Planned Performance for Geomagnetic Disturbance Events	RM15-11-000	
07/29/2015	NYISO filing re: response to letter filed by Boundless Energy to the NYDPS staff	PSC Case No. 13-E-0488, et al	
07/30/2015	NYISO filing re: motion to intervene and comment concerning the Erie Power tariff waiver request of Class Year eligibility requirements	ER15-2225-000	
07/30/2015	NYISO filing re: 2 <sup>nd</sup> Quarter 2015 EQR	ER02-2001-000	
07/31/2015	NYISO 205 filing re: change to the timeframe for requiring credit support for External Transactions	ER15-2344-000	
07/31/2015	NYISO 205 filing re: to create an independent mechanism for recovery of the annual FERC fee	ER15-2345-000	
07/31/2015	NYISO 205 filing re: change to the ICAP Spot Market Auction credit requirement to more accurately reflect the NYISO's credit exposure	ER15-2349-000	