

# Monthly Report

August 2016

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# Operations Performance Metrics Monthly Report



# August 2016 Report

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



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## August 2016 Operations Performance Highlights

- Peak load of 32,076 MW occurred on 08/11/2016 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- EDRP/SCR resources activated statewide for 8/12 for HB13:00 through 18:00
- 25 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- An IESO to NYISO ICAP Memorandum of Understanding was agreed to by the NYISO and IESO regarding the import of External Capacity from Ontario beginning with the Winter 2016-2017 capability period.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

	Current Month Value (\$M)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$1.19	\$16.26
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.37)	(\$0.47)
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.10)	(\$1.38)
Total NY Savings	\$0.72	\$14.41
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.38	\$1.77
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.31	\$1.33
Total Regional Savings	\$0.69	\$3.10

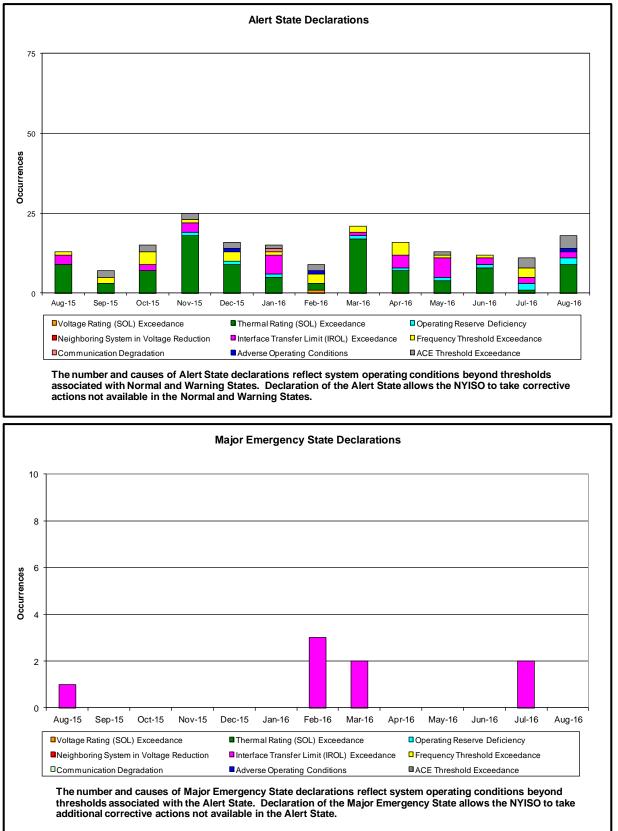
- Statewide uplift cost monthly average was (\$0.86)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
September 2016 Spot Price	\$3.32	\$9.15	\$12.19	\$4.46
August 2016 Spot Price	\$3.64	\$9.23	\$12.21	\$4.42
Delta	(\$0.32)	(\$0.08)	(\$0.02)	\$0.04

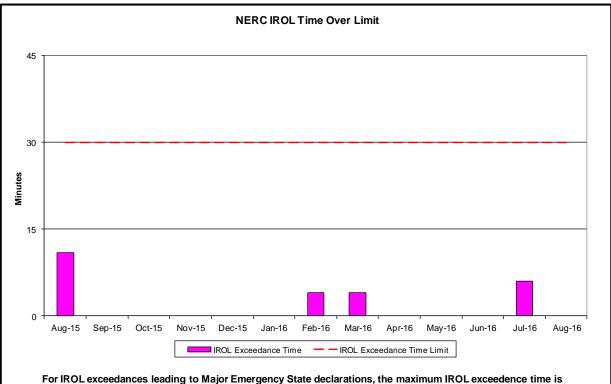
• NYCA - Price decreases by \$0.32 due to an increase in Net Imports



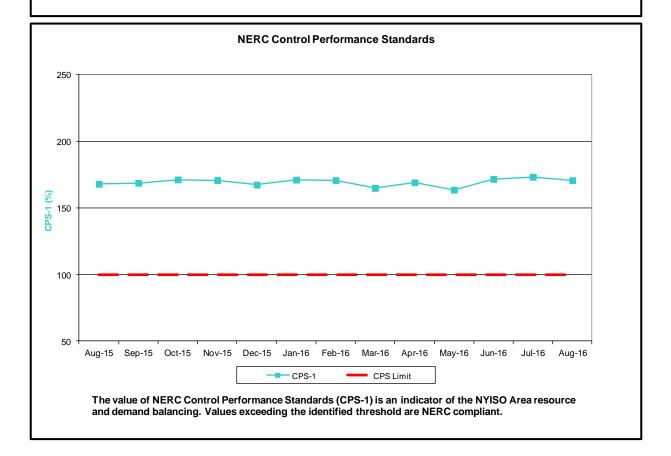
#### • Reliability Performance Metrics



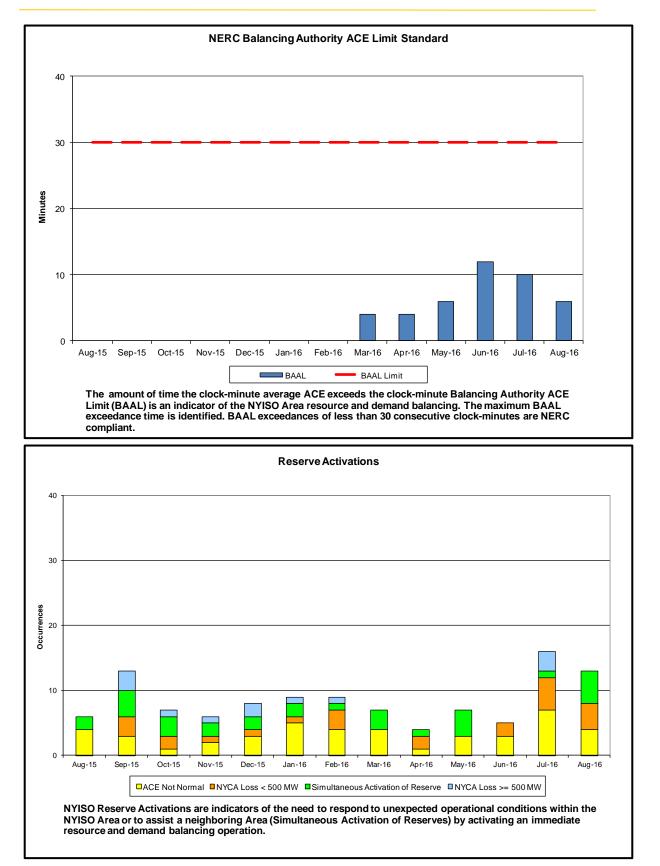




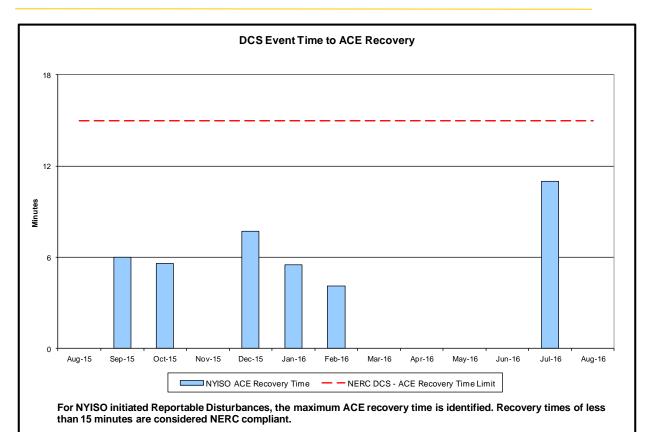
identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

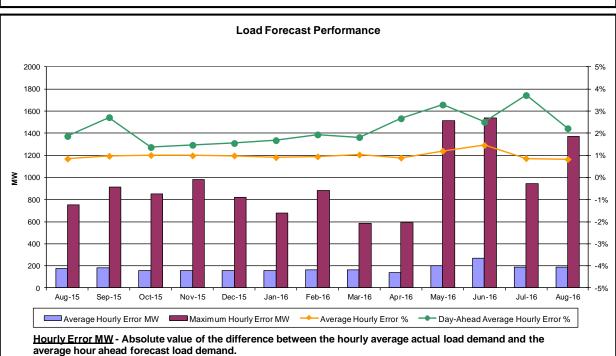








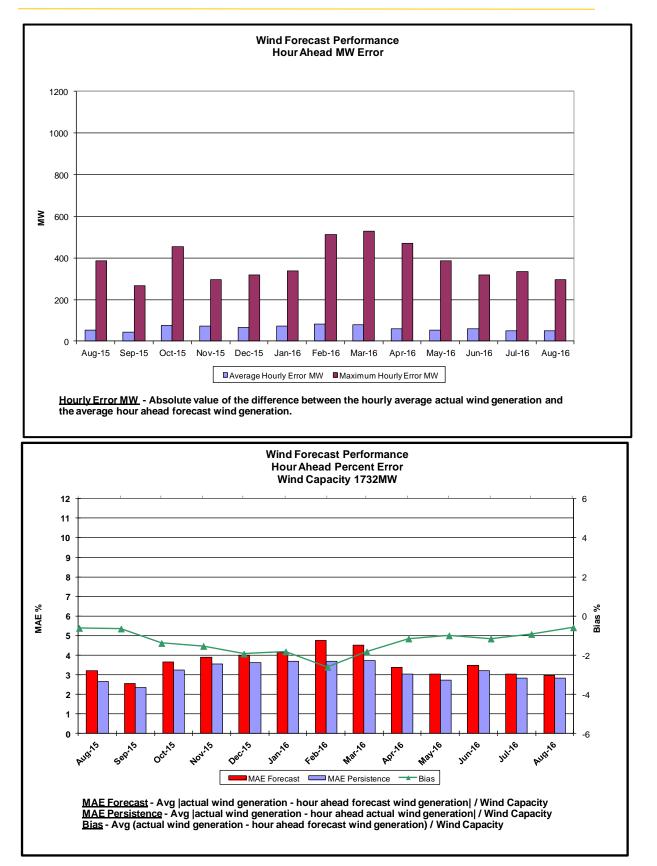




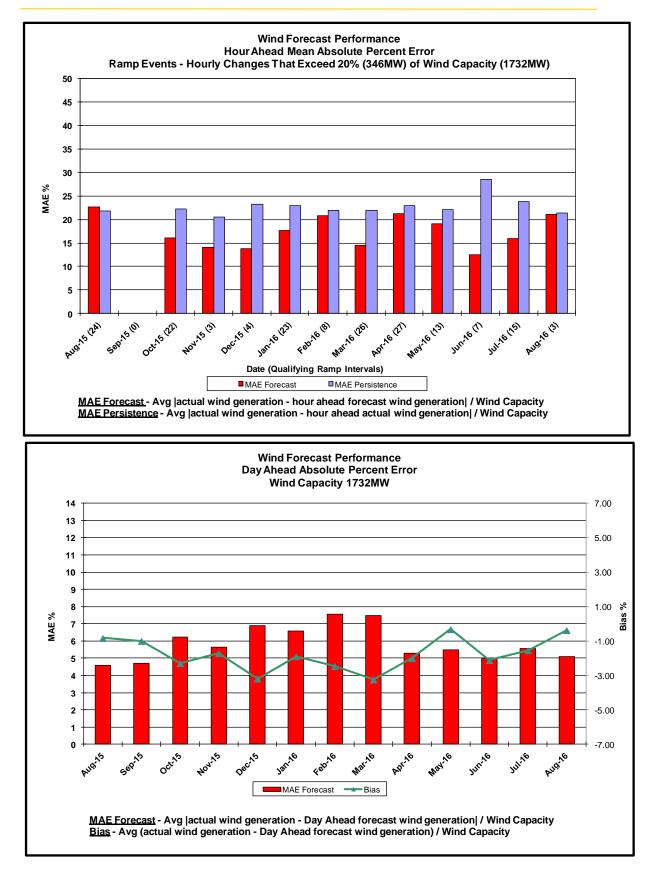
Average Hourly Error % - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

<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.

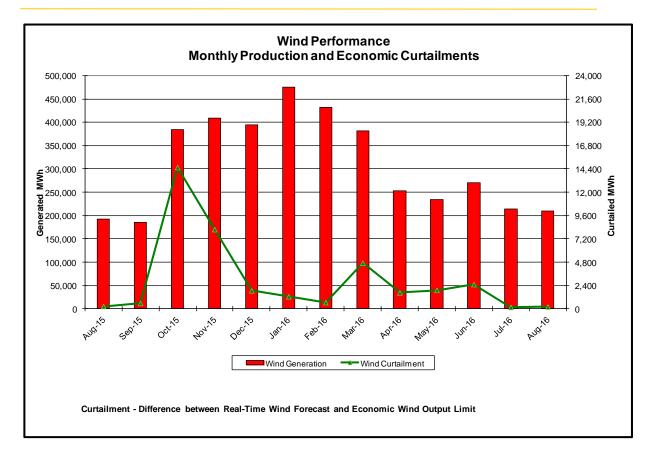




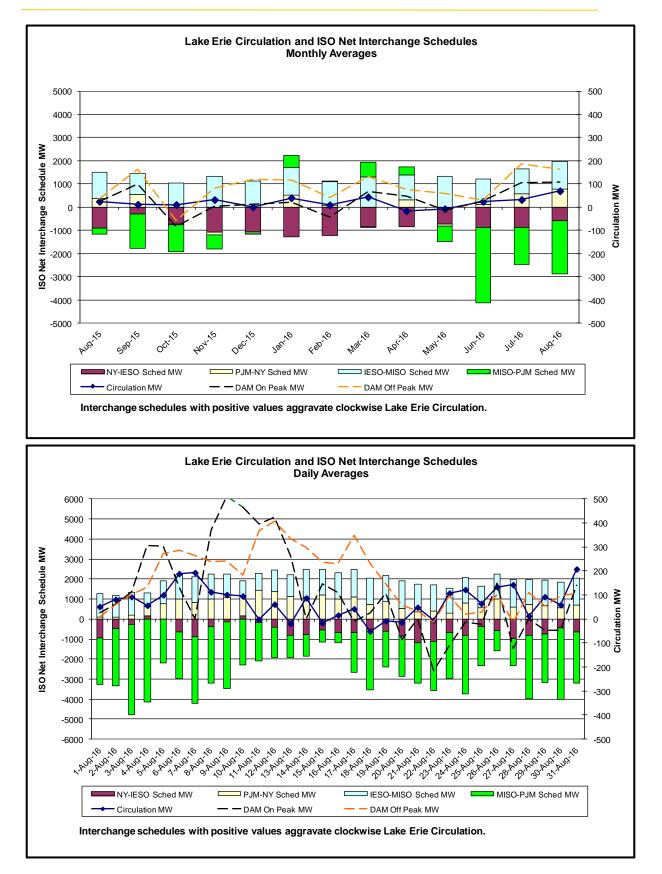




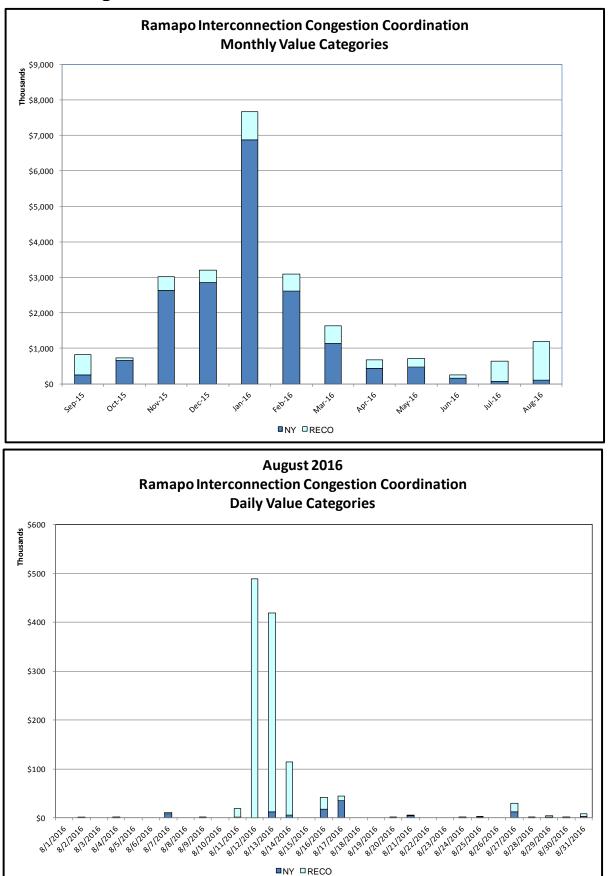












### **Broader Regional Market Performance Metrics**



#### Ramapo Interconnection Congestion Coordination

<u>Category</u> NY

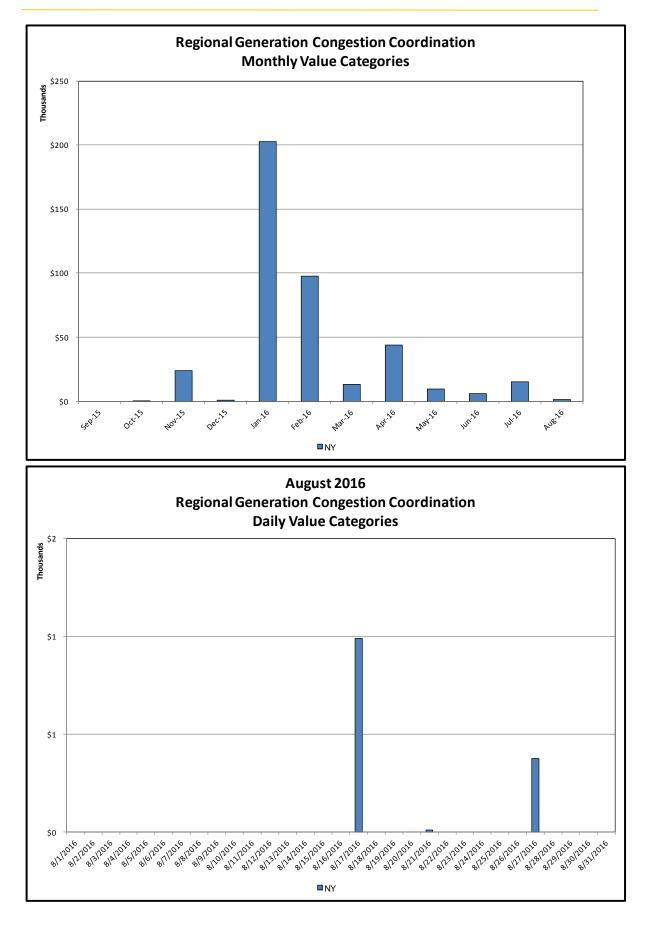
RECO

#### **Description**

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

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





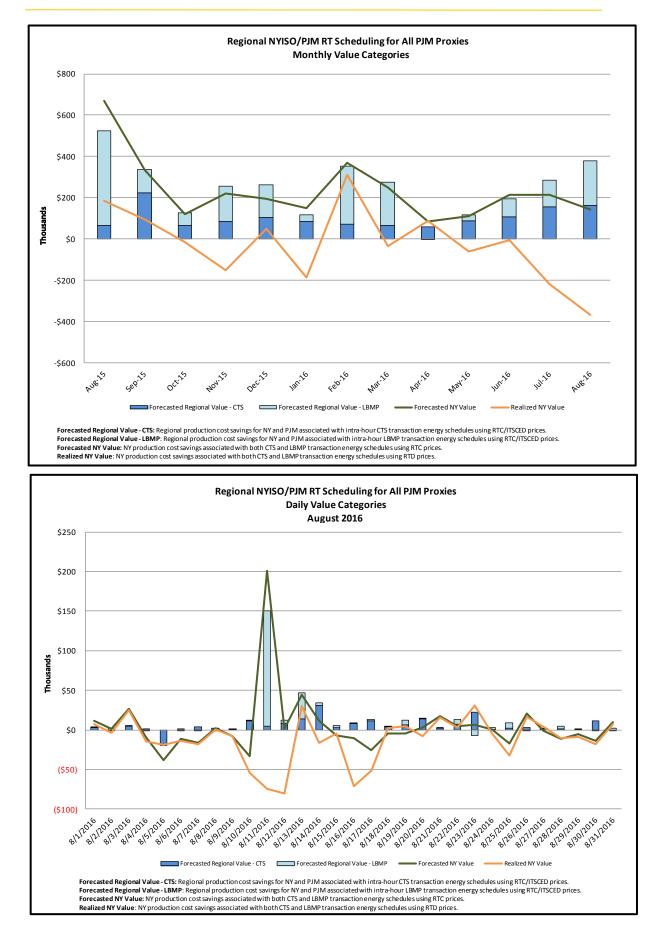


#### **Regional Generation Congestion Coordination**

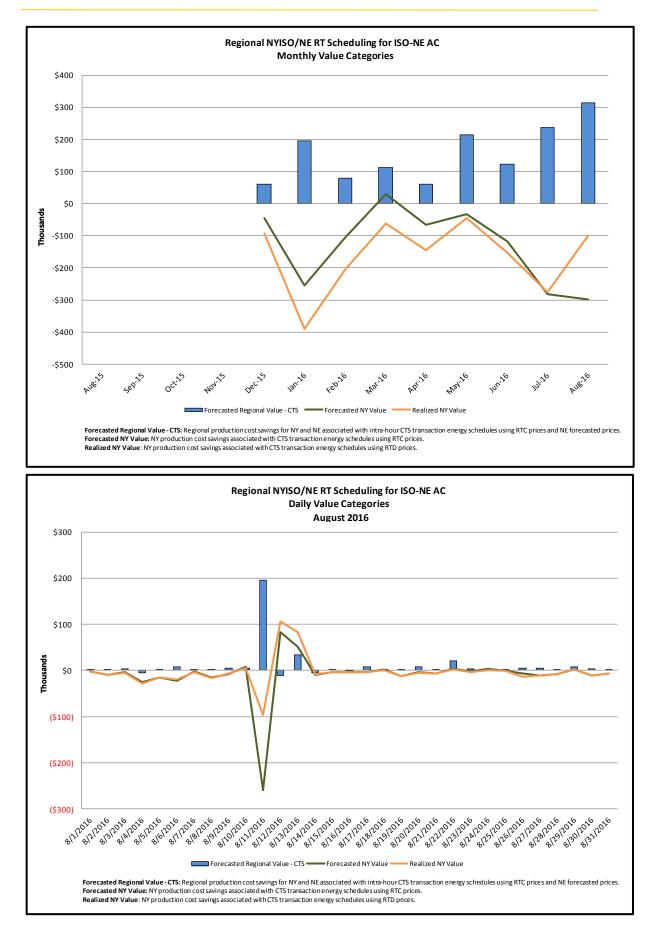
<u>Category</u> NY

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



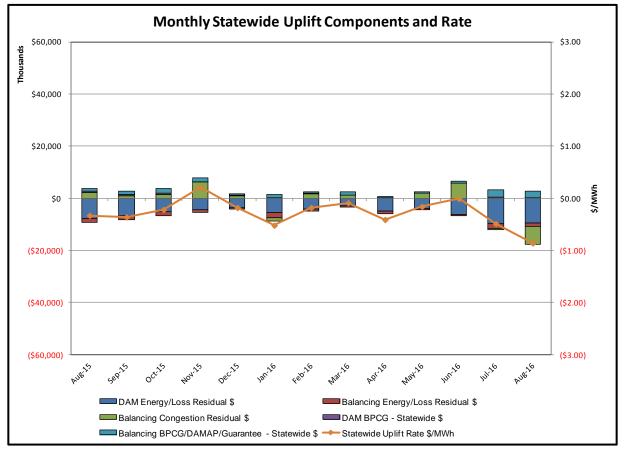




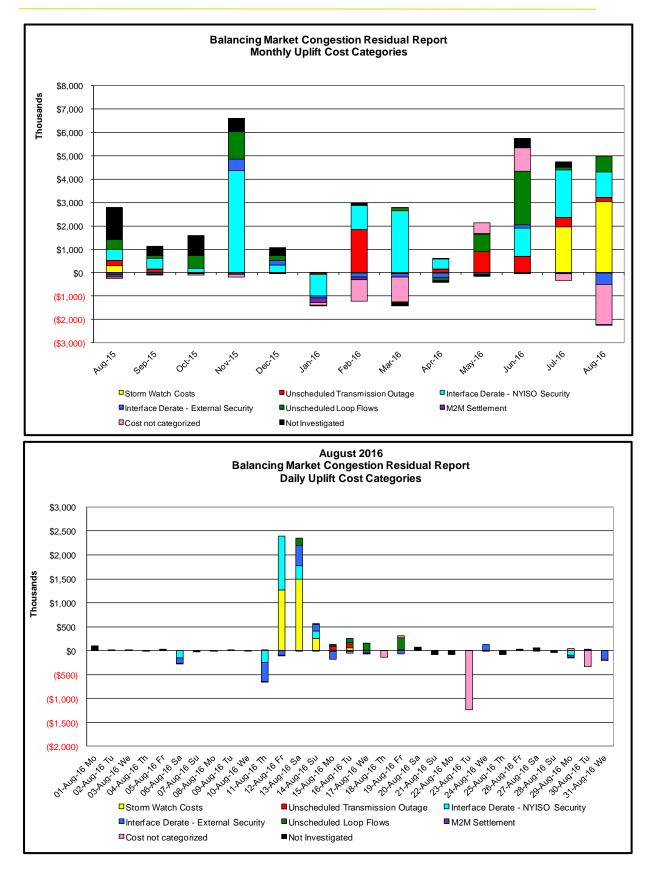




#### Market Performance Metrics









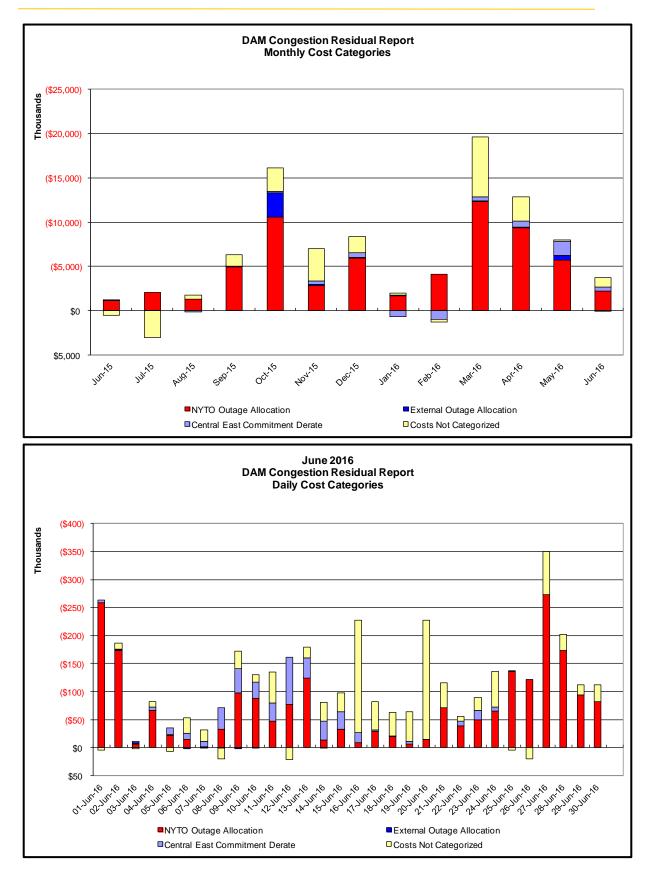
Event	Description	August Dates
	Thunder Storm Alert	11,12-14,16
	Forced outage Niagara-Packard 115kV (#192)	15,16
	Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o NEPTUNE HVDC TIE LINE	12-17,19,24
	Derate East 179th Street-HellGate East 138kV (#15053/15054)	13
	Derate East 179th Street-HellGate East 138kV (#15054)	16
	Derate East 179th Street-HellGate West 138kV (#15055)	14
	Derate Gowanus-Greenwood 138kV (#42231)	13,14,16
	Derate Gowanus-Greenwood 138kV (#42231) for I/o SCB:GOWANUS(14):42&42232&R14	13,14
	Derate Gowanus-Greenwood 138kV (#42232)	13
	Derate Gowanus-Greenwood 138kV (#42232) for I/o SCB:GOWANUS(2):41&42231&R4	13,14
	Derate Gowanus-Greenwood 138kV (#42232) for I/o TWR:GOETHALS 22 & 21	13
	Derate Greenwood-Vernon 138kV (#31231) for I/o TWR:GOETHALS 22 & 21	14
	Derate Northport-Pilgrim 138kV (#677) for I/o BUS:NRTHPRT 672&679&1385&G1&IC	15
	Derate Packard-Sawyer 230kV (#77) for I/o Packard-Sawyer 230kV (#78)	30
	NYCA DNI Ramp Limit	11-14,16,17,24,29
	Uprate Athens-Pleasant Valley 345kV (#91) for I/o Leeds-Pleasant Valley 345kV (#92)	14
	Uprate Central East	17
	Uprate East 179th Street-HellGate West 138kV (#15055)	17,19,29
	Uprate Freshkills 345/138kV (#BK TA1)	14-16
	Uprate Freshkills-Willowbrook 138kV (#29211)	24
	Uprate Freshkills-Willowbrook 138kV (#29212)	6,12,14-17
	Uprate Goethals-Gowanus 345kV (#25)	12,14-16,18,24,29
	Uprate Goethals-Gowanus 345kV (#26)	11,12,14-16,24,29
	Uprate Gowanus-Greenwood 138kV (#42231)	15-17
	Uprate Gowanus-Greenwood 138kV (#42231) for I/o SCB:GOWANUS(14):42&42232&R14	15,16
	Uprate Gowanus-Greenwood 138kV (#42231) for I/o TWR:GOETHALS 22 & 21	17
	Uprate Gowanus-Greenwood 138kV (#42231/42232) for I/o TWR:GOETHALS 22 & 21	16
	Uprate Gowanus-Greenwood 138kV (#42232)	15,17
	Uprate Gowanus-Greenwood 138kV (#42232) for I/o SCB:GOWANUS(2):41&42231&R4	15-17
	Uprate Gowanus-Greenwood 138kV (#42232) for I/o TWR:GOETHALS 22 & 21	17
	Uprate Leeds-Pleasant Valley 345kV (#92) for I/o Athens-Pleasant Valley 345kV (#91)	14,29
	HQ_CHAT-NY DNI Ramp Limit	24
	HQ_CHAT-NY Scheduling Limit	12,24,31
	IESO AC DNI Ramp Limit	11,15
	IESO AC-NY Scheduling Limit	12
	NE_AC DNI Ramp Limit	11-14,16,17,19,23,24,29
	NE AC-NY Scheduling Limit	6,11,12,14-17
	NE_NNC1385-NY Scheduling Limit	11,13-15,29
	PJM_AC DNI Ramp Limit	16,17
	PJM_AC-NY Scheduling Limit	11,13,14,24
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Gardenville-Stolle Road 230kV (#66)	16,19
	Lake Eric Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard 230kV (#61)	13,15-17,19
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kV (#77)	13,15-17,30



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

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



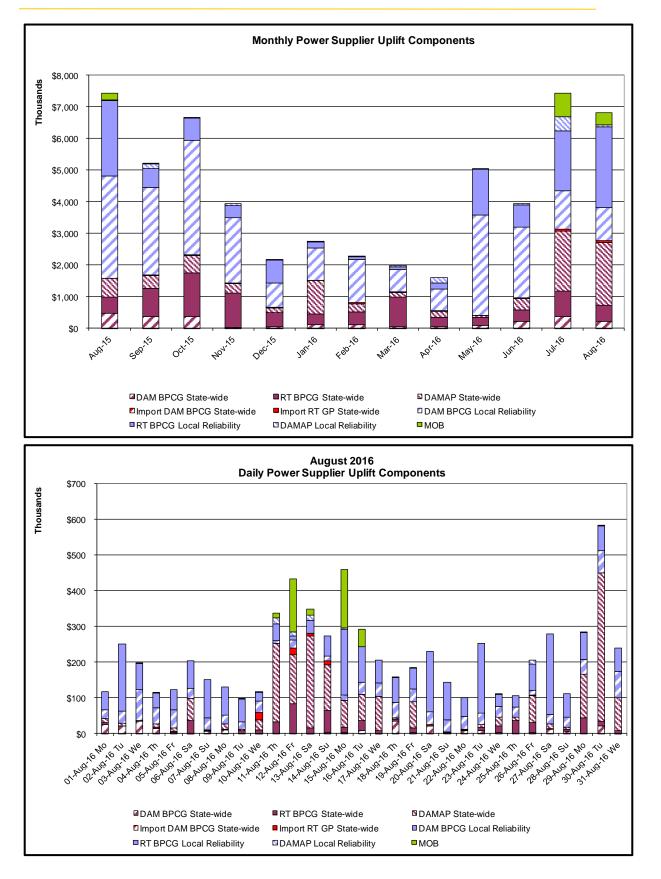




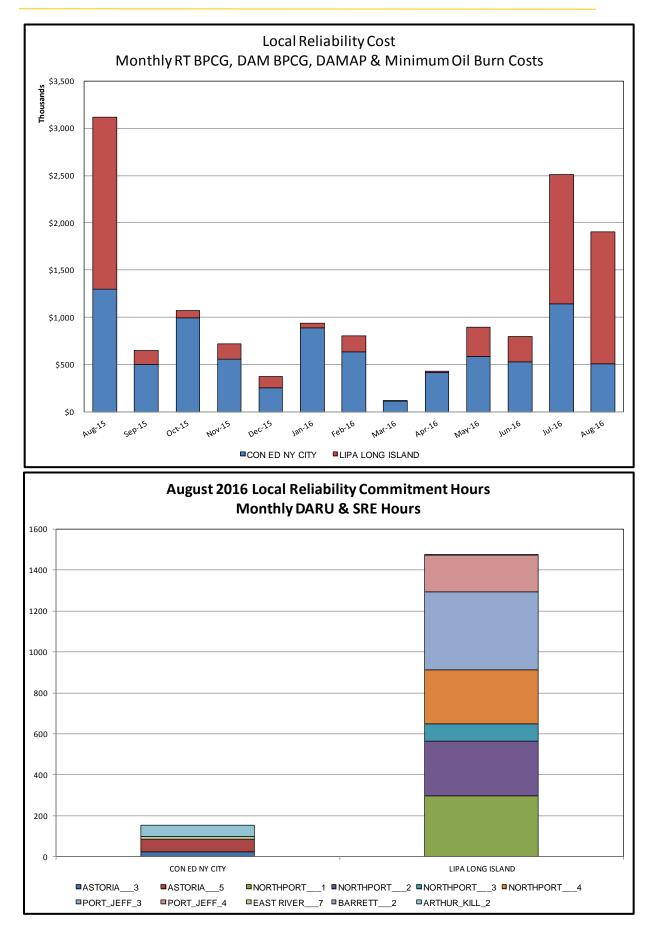
#### Day-Ahead Market Congestion Residual Categories

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

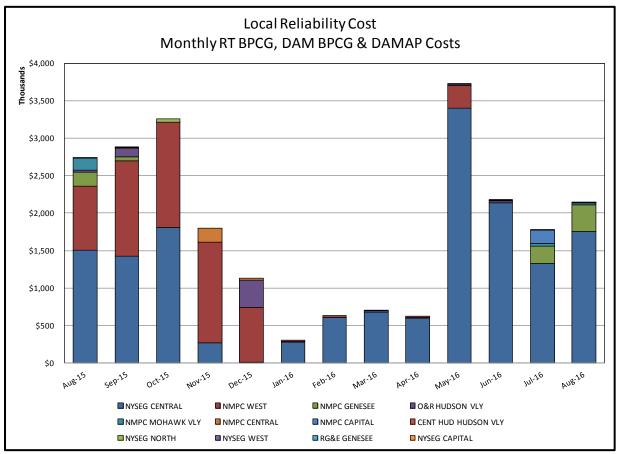


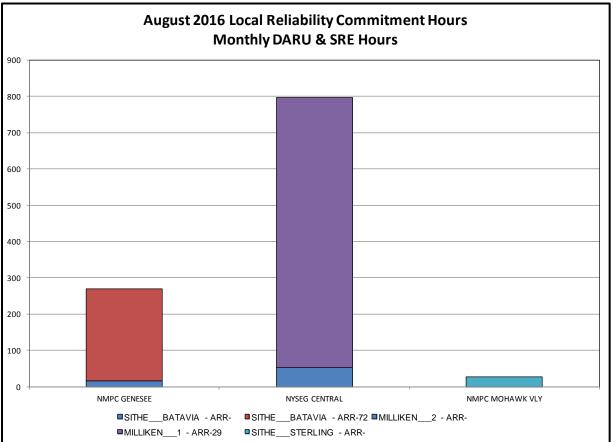




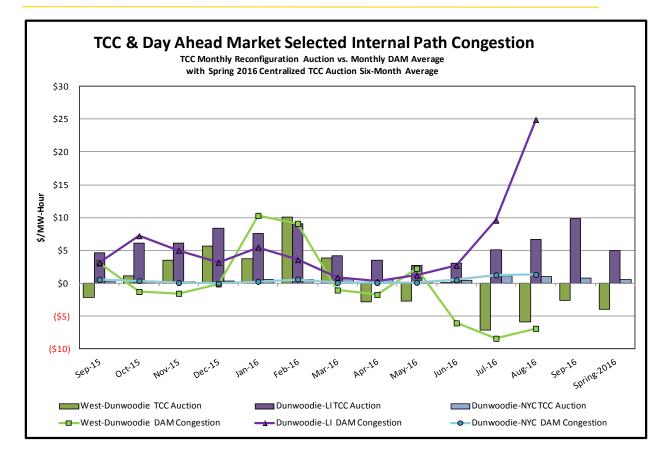


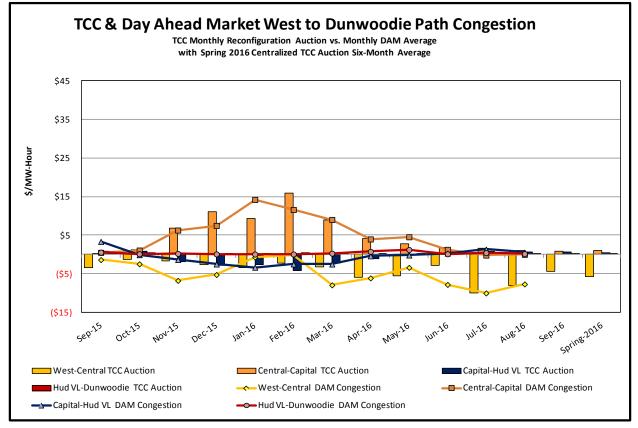




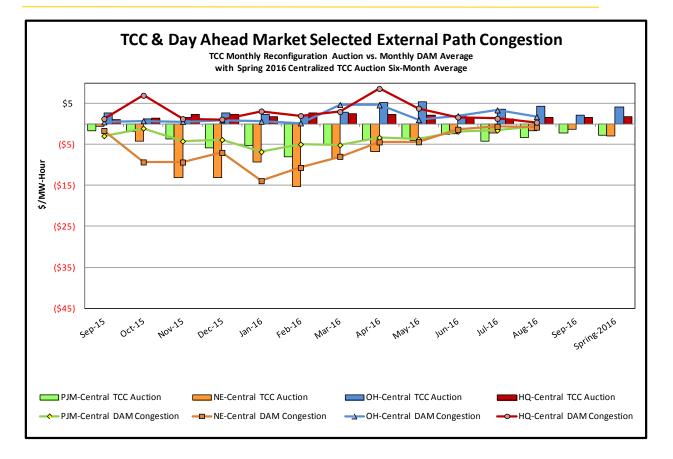




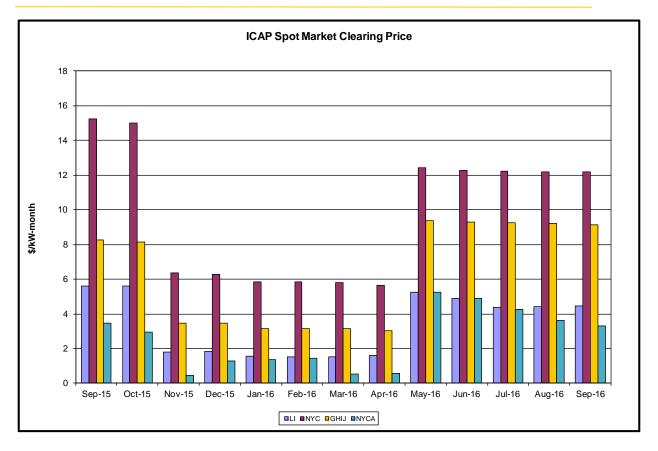


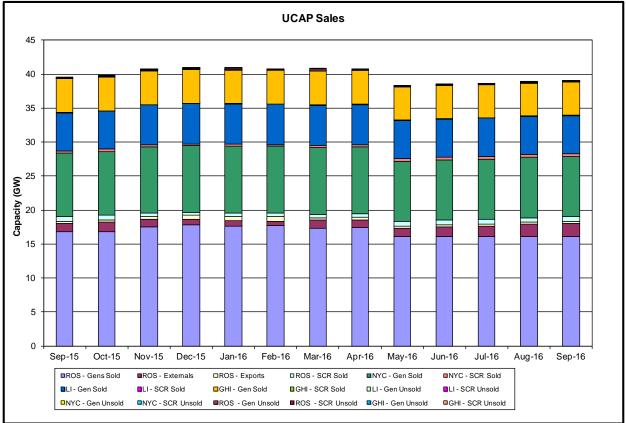










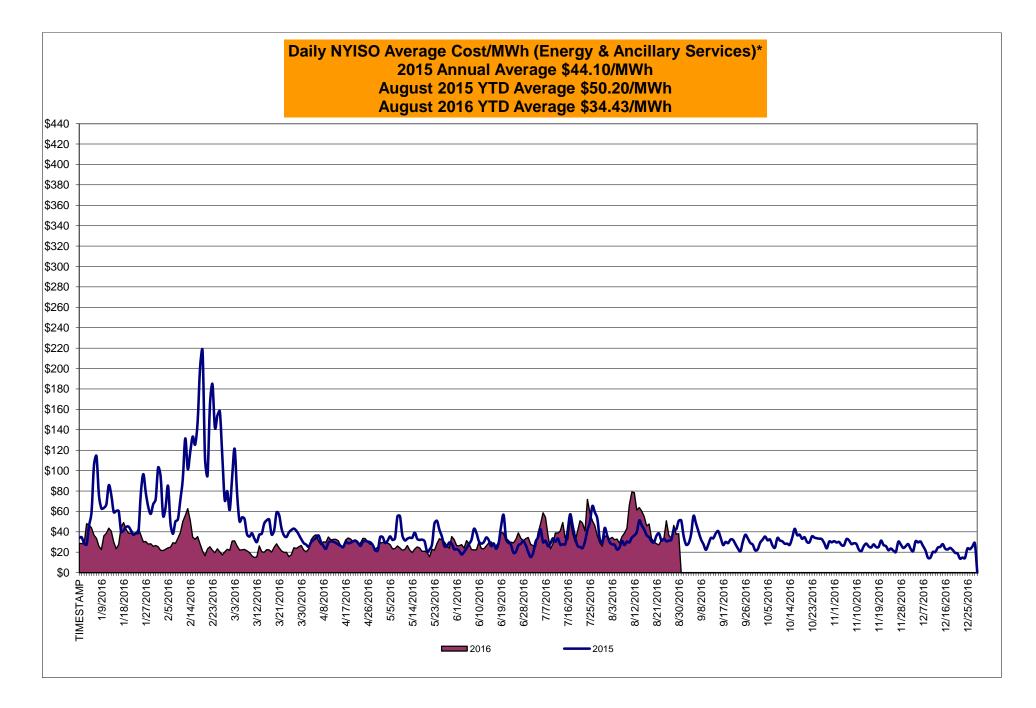


# Market Performance Highlights for August 2016

- LBMP for August is \$42.99/MWh; higher than \$40.01/MWh in July 2016 and \$33.09/MWh in August 2015.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to July.
- August 2016 average year-to-date monthly cost of \$34.43/MWh is a 31% decrease from \$50.20/MWh in August 2015.
- Average daily sendout is 548 GWh/day in August; higher than 532 GWh/day in July 2016 and 511 GWh/day in August 2015.
- Natural gas prices were lower and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.01/MMBtu, down from \$2.16/MMBtu in July.
    - Natural gas prices are down 15.7% year-over-year
  - Jet Kerosene Gulf Coast was \$9.66/MMBtu, up from \$9.42/MMBtu in July.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$10.06/MMBtu, up from \$9.78/MMBtu in July.
    - Distillate prices are down 7.4% year-over-year
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.63)/MWh; lower than (\$0.26)/MWh in July.
    - Local Reliability Share is \$0.22/MWh, lower than \$0.23/MWh in July.
    - Statewide Share is (\$0.86)/MWh, lower than (\$0.49)/MWh in July.
  - TSA \$ per NYC MWh is \$1.64/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than July.

9/12/2016

Market Mitigation and Analysis



\* Excludes ICAP payments.

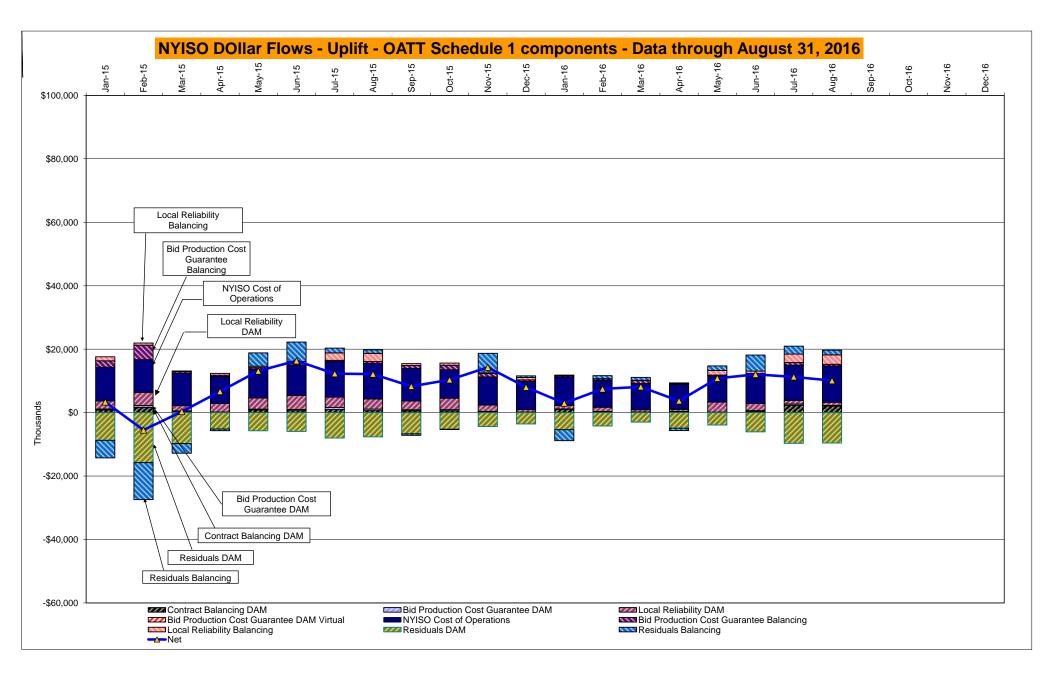
## <u>NYISO Average Cost/MWh (Energy and Ancillary Services)</u> \* <u>from the LBMP Customer point of view</u>

2016	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	July	<u>August</u>	<u>September</u>
LBMP	34.29	28.71	20.66	27.96	23.31	27.35	40.01	42.99	
NTAC	0.59	0.78	0.62	1.14	1.10	0.93	0.78	0.54	
Reserve	0.77	0.73	0.73	0.87	0.71	0.59	0.67	0.68	
Regulation	0.12	0.12	0.12	0.12	0.11	0.12	0.10	0.10	
NYISO Cost of Operations	0.64	0.65	0.65	0.64	0.65	0.66	0.65	0.65	
FERC Fee Recovery	0.09	0.10	0.11	0.10	0.09	0.09	0.07	0.06	
Uplift	(0.43)	(0.07)	(0.03)	(0.34)	0.19	0.20	(0.26)	(0.63)	
Uplift: Local Reliability Share	0.09	0.11	0.06	0.07	0.35	0.21	0.23	0.22	
Uplift: Statewide Share	(0.52)	(0.18)	(0.09)	(0.41)	(0.16)	(0.01)	(0.49)	(0.86)	
Voltage Support and Black Start	0.35	0.36	0.36	0.35	0.36	0.36	0.36	0.36	
Avg Monthly Cost	36.42	31.37	23.23	30.84	26.52	30.29	42.40	44.75	
Avg YTD Cost	36.42	34.02	30.68	30.71	29.85	29.93	32.32	34.43	
TSA \$ per NYC MWh	0.00	0.00	0.05	0.00	0.00	0.02	0.84	1.64	
2015	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>
LBMP	59.61	114.37	52.09	28.36	32.98	28.20	34.77	33.09	34.40
NTAC	0.32	0.35	0.41	0.64	0.56	0.80	0.54	0.60	0.63
Reserve	0.27	0.37	0.56	0.36	0.38	0.24	0.27	0.20	0.28
Regulation	0.10	0.18	0.11	0.12	0.10	0.13	0.12	0.12	0.10
NYISO Cost of Operations	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Uplift	(0.48)	(1.08)	(0.68)	(0.15)	0.26	0.33	0.04	0.03	(0.15)
Uplift: Local Reliability Share	0.25	0.33	0.13	0.27	0.30	0.37	0.35	0.36	0.22
Uplift: Statewide Share	(0.73)	(1.41)	(0.81)	(0.42)	(0.05)	(0.04)	(0.30)	(0.33)	(0.37)
Voltage Support and Black Start	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Avg Monthly Cost	60.91	115.27	53.58	30.41	35.37	30.79	36.84	35.14	36.35
Avg YTD Cost	60.91	87.74	76.64	66.82	60.96	56.02	52.77	50.20	48.59
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.17	0.50	0.07	0.06	0.01
2014	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>
LBMP	183.36	123.19	109.58	46.09	40.30	43.39	43.97	34.48	37.63
NTAC	0.56	0.64	0.39	1.18	0.69	0.78	0.43	0.41	0.50
Reserve	0.78	0.49	0.56	0.46	0.28	0.27	0.26	0.26	0.29
Regulation	0.27	0.21	0.22	0.13	0.12	0.12	0.12	0.13	0.11
NYISO Cost of Operations	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)
Uplift: Local Reliability Share	1.43	0.75	0.62	0.15	0.51	0.32	0.29	0.27	0.26
Uplift: Statewide Share	(1.21)	(0.19)	(0.27)	(0.24)	(0.44)	(0.53)	(0.55)	(0.45)	(0.46)
Voltage Support and Black Start	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
Avg YTD Cost	186.24	157.93	142.77	121.97	108.36	97.84	89.46	82.60	78.07
TSA \$ per NYC MWh * Excludes ICAP payments.	0.00	0.00	0.00	0.00	0.00	0.03	0.35	0.00	0.42
Market Mitigation and Analysis					P			As of Jan. 20	16, the annual FERC

Market Mitigation and Analysis Prepared: 9/8/2016 2:26 PM 0.000.420.000.000.00Data reflects true-ups thru December 2015.As of Jan. 2016, the annual FERC fee is recovered separately from Cost of Ops.

<u>October</u>	<u>November</u>	<u>December</u>
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<u>October</u>	<u>November</u>	<u>December</u>
30.05	24.83	20.91
0.53	0.68	1.05
0.28	0.47	0.60
0.12	0.13	0.13
0.69	0.70	0.69
0.10	0.44	(0.07)
0.33	0.20	0.12
(0.23)	0.25	(0.18)
0.39	0.39	0.38
32.18	27.64	23.71
47.17	45.66	44.10
0.00	0.00	0.00
October	November	December
<u>October</u> 35.61	November 42.89	December 38.08
35.61	42.89	38.08
35.61 0.57	42.89 0.68	38.08 0.86
35.61	42.89 0.68 0.37	38.08 0.86 0.23
35.61 0.57 0.48	42.89 0.68	38.08 0.86
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35.61 0.57 0.48 0.12	42.89 0.68 0.37 0.11	38.08 0.86 0.23 0.08
35.61 0.57 0.48 0.12 0.69 (0.24)	42.89 0.68 0.37 0.11 0.69 (0.40)	38.08 0.86 0.23 0.08 0.69 (0.20)
35.61 0.57 0.48 0.12 0.69 (0.24) 0.26	42.89 0.68 0.37 0.11 0.69 (0.40) 0.24	38.08 0.86 0.23 0.08 0.69 (0.20) 0.13
35.61 0.57 0.48 0.12 0.69 (0.24) 0.26 (0.50)	42.89 0.68 0.37 0.11 0.69 (0.40) 0.24 (0.64)	38.08 0.86 0.23 0.08 0.69 (0.20) 0.13 (0.33)
35.61 0.57 0.48 0.12 0.69 (0.24) 0.26 (0.50) 0.36	42.89 0.68 0.37 0.11 0.69 (0.40) 0.24 (0.64) 0.36	38.08 0.86 0.23 0.08 0.69 (0.20) 0.13 (0.33) 0.36
35.61 0.57 0.48 0.12 0.69 (0.24) 0.26 (0.50) 0.36	42.89 0.68 0.37 0.11 0.69 (0.40) 0.24 (0.64) 0.36	38.08 0.86 0.23 0.08 0.69 (0.20) 0.13 (0.33) 0.36
35.61 0.57 0.48 0.12 0.69 (0.24) 0.26 (0.50) 0.36 37.59	42.89 0.68 0.37 0.11 0.69 (0.40) 0.24 (0.64) 0.36 44.71	38.08 0.86 0.23 0.08 0.69 (0.20) 0.13 (0.33) 0.36 40.09



# **NYISO Markets Transactions**

<u>2016</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	14,760,915	13,614,754	13,413,781	12,496,141	12,959,886	14,095,904	16,950,819	17,413,898				
DAM LSE Internal LBMP Energy Sales	54%	55%	55%	57%	58%	60%	64%	63%				
DAM External TC LBMP Energy Sales	4%	2%	1%	5%	2%	1%	1%	3%				
DAM Bilateral - Internal Bilaterals	34%	34%	35%	28%	31%	30%	28%	27%				
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%	4%				
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	2%	2%	2%	2%	1%	1%				
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%				
Balancing Energy Market MWh	-522,919	-580,900	-741,701	-303,313	-180,848	-143,015	-86,025	224,316				
Balancing Energy LSE Internal LBMP Energy Sales	-125%	-114%	-118%	-76%	-147%	-203%	-347%	42%				
Balancing Energy External TC LBMP Energy Sales	12%	13%	19%	-13%	55%	77%	204%	56%				
Balancing Energy Bilateral - Internal Bilaterals	19%	9%	4%	8%	27%	47%	62%	28%				
Balancing Energy Bilateral - ImportI/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%				
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	5%	3%	5%	7%	10%	15%	5%				
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%	-12%	-8%	-24%	-42%	-32%	-34%	-31%				
Transactions Summary	1270	1270	0,0	2170	1270	0270	0170	0170				
LBMP	56%	56%	54%	62%	59%	61%	65%	66%				
Internal Bilaterals	36%	36%	37%	29%	32%	31%	28%	27%				
Import Bilaterals	5%	5%	57 % 6%	29 <i>%</i> 6%	5%	5%	4%	4%				
Export Bilaterals	2%	2%	0 <i>%</i> 2%	2%	3 <i>%</i> 2%	3 <i>%</i> 2%	4 <i>%</i> 1%	4 <i>%</i> 1%				
Wheels Through	1%	2 % 1%	2 <i>%</i> 1%	2 <i>%</i> 1%	2 %	2%	1%	1%				
	1 /0	1 /0	1 /0	1 /0	270	270	1 /0	1 /0				
Market Share of Total Load	400 70/		405.00/		404 40/	404.00/		00 70/				
Day Ahead Market	103.7%	104.5%	105.9%	102.5%	101.4%	101.0%	100.5%	98.7%				
Balancing Energy +	-3.7%	-4.5%	-5.9%	-2.5%	-1.4%	-1.0%	-0.5%	1.3%				
Total MWH	14,237,996		12,672,080			13,952,889	16,864,794					
Average Daily Energy Sendout/Month GWh	439	436	397	385	397	456	532	548				
<u>2015</u>	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
2015 Day Ahead Market MWh	<u>January</u> 15,961,306	<u>February</u> 14,967,371	<u>March</u> 15,059,207	<u>April</u> 12,589,321	<u>May</u> 13,291,917	<u>June</u> 14,277,299	<u>July</u> 16,573,027	<u>August</u> 16,333,932	<u>September</u> 14,740,907	<u>October</u> 13,546,033	<u>November</u> 13,338,332	<u>December</u> 13,620,002
							-		•			
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	16,333,932	14,740,907	13,546,033	13,338,332	13,620,002
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	15,961,306 55%	14,967,371 54%	15,059,207 53%	12,589,321 55%	13,291,917 57%	14,277,299 57%	16,573,027 62%	16,333,932 61%	14,740,907 58%	13,546,033 53%	13,338,332 53%	13,620,002 55%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	15,961,306 55% 5%	14,967,371 54% 6%	15,059,207 53% 6%	12,589,321 55% 4%	13,291,917 57% 2%	14,277,299 57% 1%	16,573,027 62% 1%	16,333,932 61% 1%	14,740,907 58% 3%	13,546,033 53% 6%	13,338,332 53% 5%	13,620,002 55% 1%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	15,961,306 55% 5% 35%	14,967,371 54% 6% 33%	15,059,207 53% 6% 33%	12,589,321 55% 4% 33%	13,291,917 57% 2% 35%	14,277,299 57% 1% 33%	16,573,027 62% 1% 30%	16,333,932 61% 1% 31%	14,740,907 58% 3% 31%	13,546,033 53% 6% 34%	13,338,332 53% 5% 33%	13,620,002 55% 1% 35%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	15,961,306 55% 5% 35% 3%	14,967,371 54% 6% 33% 5%	15,059,207 53% 6% 33% 5%	12,589,321 55% 4% 33% 6%	13,291,917 57% 2% 35% 4%	14,277,299 57% 1% 33% 5%	16,573,027 62% 1% 30% 4%	16,333,932 61% 1% 31% 4%	14,740,907 58% 3% 31% 5%	13,546,033 53% 6% 34% 5%	13,338,332 53% 5% 33% 5%	13,620,002 55% 1% 35% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	15,961,306 55% 5% 35% 3% 2% 0%	14,967,371 54% 6% 33% 5% 2% 1%	15,059,207 53% 6% 33% 5% 1%	12,589,321 55% 4% 33% 6% 2% 1%	13,291,917 57% 2% 35% 4% 1%	14,277,299 57% 1% 33% 5% 1% 2%	16,573,027 62% 1% 30% 4% 1% 2%	16,333,932 61% 1% 31% 4% 1%	14,740,907 58% 3% 31% 5% 1% 2%	13,546,033 53% 6% 34% 5% 2% 1%	13,338,332 53% 5% 33% 5% 2% 2% 2%	13,620,002 55% 1% 35% 5% 2%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWh	15,961,306 55% 5% 35% 3% 2% 0% -650,944	14,967,371 54% 6% 33% 5% 2%	15,059,207 53% 6% 33% 5% 1% 1% 1% -396,739	12,589,321 55% 4% 33% 6% 2%	13,291,917 57% 2% 35% 4% 1% 0%	14,277,299 57% 1% 33% 5% 1%	16,573,027 62% 1% 30% 4% 1% 2% -505,637	16,333,932 61% 1% 31% 4% 1% 2% -228,461	14,740,907 58% 3% 31% 5% 1% 2% -33,268	13,546,033 53% 6% 34% 5% 2%	13,338,332 53% 5% 33% 5% 2%	13,620,002 55% 1% 35% 5% 2% 2% -642,268
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy Sales	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247%	15,059,207 53% 6% 33% 5% 1% 1% -396,739 -192%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115%	13,338,332 53% 5% 33% 5% 2% 2% -718,787 -110%	13,620,002 55% 1% 35% 5% 2% 2%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy External TC LBMP Energy Sales	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113%	15,059,207 53% 6% 33% 5% 1% 1% 1% -396,739	12,589,321 55% 4% 33% 6% 2% 1% -409,205	13,291,917 57% 2% 35% 4% 1% 0% -331,091	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110%	13,546,033 53% 6% 34% 5% 2% 1% -604,600	13,338,332 53% 5% 33% 5% 2% 2% 2% -718,787	13,620,002 55% 1% 35% 5% 2% 2% 2% -642,268 -115% 17%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal Bilaterals	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14%	15,059,207 53% 6% 33% 5% 1% 1% -396,739 -192% 64% 19%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7%	13,338,332 53% 5% 33% 5% 2% 2% 2% -718,787 -110% 12% 4%	13,620,002 55% 1% 35% 5% 2% 2% -642,268 -115% 17% 5%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13% 0%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14% 0%	15,059,207 53% 6% 33% 5% 1% 1% 1% -396,739 -192% 64% 19% 0%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5% 0%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6% 0%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6% 1%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13% 0%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25% 0%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239% 0%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7% 0%	13,338,332 53% 5% 33% 5% 2% 2% 2% 2% -718,787 -110% 12% 4% 0%	13,620,002 55% 1% 35% 5% 2% 2% -642,268 -115% 17% 5% 0%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13% 0% 6%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14% 0% 8%	15,059,207 53% 6% 33% 5% 1% 1% -396,739 -192% 64% 19% 0% 12%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5% 0% 12%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6% 0% 10%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6% 1% 4%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13% 0% 3%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25% 0% 8%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239% 0% 46%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7% 0% 5%	13,338,332 53% 5% 33% 5% 2% 2% 2% -718,787 -110% 12% 4% 0% 5%	13,620,002 55% 1% 35% 5% 2% 2% 2% -642,268 -115% 17% 5% 0% 6%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through Bilaterals	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13% 0%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14% 0%	15,059,207 53% 6% 33% 5% 1% 1% 1% -396,739 -192% 64% 19% 0%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5% 0%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6% 0%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6% 1%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13% 0%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25% 0%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239% 0%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7% 0%	13,338,332 53% 5% 33% 5% 2% 2% 2% 2% -718,787 -110% 12% 4% 0%	13,620,002 55% 1% 35% 5% 2% 2% -642,268 -115% 17% 5% 0%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Sport/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Wheel Through Bilaterals	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13% 0% 6% 0%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14% 0% 8% 12%	15,059,207 53% 6% 33% 5% 1% 1% 1% -396,739 -192% 64% 19% 0% 12% -4%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5% 0% 12% -5%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6% 0% 10% -9%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6% 1% 4% -22%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13% 0% 3% -21%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25% 0% 8% -44%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239% 0% 46% -149%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7% 0% 5% -9%	13,338,332 53% 5% 33% 5% 2% 2% -718,787 -110% 12% 4% 0% 5% -11%	13,620,002 55% 1% 35% 5% 2% -642,268 -115% 17% 5% 0% 6% -13%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through Bilaterals<	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13% 0% 6% 0% 58%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14% 0% 8% 12%	15,059,207 53% 6% 33% 5% 1% 1% -396,739 -192% 64% 19% 0% 12% -4%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5% 0% 12% -5%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6% 0% 10% -9%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6% 1% 4% -22%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13% 0% 3% -21%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25% 0% 8% -44%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239% 0% 46% -149%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7% 0% 5% -9%	13,338,332 53% 5% 33% 5% 2% 2% -718,787 -110% 12% 4% 0% 5% -11%	13,620,002 55% 1% 35% 5% 2% 2% -642,268 -115% 17% 5% 0% 6% -13%
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Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy External TC LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsMport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13% 0% 6% 0% 58% 37% 3% 2% 0% 104.3% -4.3%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14% 0% 8% 12% 59% 34% 5% 2% 1% 102.0% -2.0%	15,059,207 53% 6% 33% 5% 1% -396,739 -192% 64% 19% 0% 12% -4% 57% 35% 5% 2% 1% 102.7% -2.7%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5% 0% 12% -5% 57% 35% 6% 2% 0% 103.4% -3.4%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6% 0% 10% -9% 58% 36% 4% 2% 0% 102.6% -2.6%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6% 1% 4% -22% 57% 35% 5% 1% 1% 1% 1%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13% 0% 3% -21% 61% 32% 5% 1% 1% 1% 1%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25% 0% 25% 0% 8% -44% 61% 32% 5% 1% 1% 1%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239% 0% 46% -149% 61% 32% 5% 1% 1% 1% 1%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7% 0% 5% -9% 5% -9% 56% 36% 5% 2% 0% 104.7% -4.7%	13,338,332 53% 5% 33% 5% 2% 2% -718,787 -110% 12% 4% 0% 5% -11% 56% 35% 6% 2% 1% 105.7% -5.7%	13,620,002 55% 1% 35% 5% 2% -642,268 -115% 17% 5% 0% 6% -13% 54% 37% 6% 2% 1% 104.9% -4.9%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral SImport BilateralsImport BilateralsImport BilateralsMheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +Total MWH	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13% 0% 6% 0% 6% 0% 58% 37% 3% 2% 0% 104.3% -4.3% 15,310,362	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14% 0% 8% 12% 59% 34% 5% 2% 1% 102.0% -2.0% 14,670,755	15,059,207 53% 6% 33% 5% 1% 1% -396,739 -192% 64% 19% 0% 12% -4% 57% 35% 55% 2% 2% 1% 102.7% 102.7% 14,662,468	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5% 0% 12% -5% 57% 35% 6% 2% 0% 103.4% -3.4% 12,180,116	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6% 0% 10% -9% 58% 36% 4% 2% 0% 102.6% -2.6% 12,960,826	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6% 1% 4% -22% 57% 35% 5% 1% 1% 1% 1%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13% 0% 3% -21% 61% 32% 5% 1% 1% 1% 1% 1% 1% 1% 1%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25% 0% 25% 0% 8% -44% 61% 32% 5% 1% 1% 1% 1% 1%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239% 0% 46% -149% 61% 32% 5% 1% 1% 1% 1%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7% 0% 5% -9% 5% -9% 56% 36% 5% 2% 0% 104.7% -4.7% 12,941,433	13,338,332 53% 5% 33% 5% 2% 2% 2% -718,787 -110% 12% 4% 0% 5% -11% 56% 35% 6% 2% 1% 105.7% 12,619,545	13,620,002 55% 1% 35% 5% 2% -642,268 -115% 17% 5% 0% 6% -13% 54% 37% 6% 2% 1% 104.9% -4.9% 12,977,734
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Seport/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBuport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +	15,961,306 55% 5% 35% 3% 2% 0% -650,944 -149% 30% 13% 0% 6% 0% 58% 37% 3% 2% 0% 104.3% -4.3%	14,967,371 54% 6% 33% 5% 2% 1% -296,616 -247% 113% 14% 0% 8% 12% 59% 34% 5% 2% 1% 102.0% -2.0%	15,059,207 53% 6% 33% 5% 1% -396,739 -192% 64% 19% 0% 12% -4% 57% 35% 5% 2% 1% 102.7% -2.7%	12,589,321 55% 4% 33% 6% 2% 1% -409,205 -147% 36% 5% 0% 12% -5% 57% 35% 6% 2% 0% 103.4% -3.4%	13,291,917 57% 2% 35% 4% 1% 0% -331,091 -142% 35% 6% 0% 10% -9% 58% 36% 4% 2% 0% 102.6% -2.6%	14,277,299 57% 1% 33% 5% 1% 2% -549,794 -106% 16% 6% 1% 4% -22% 57% 35% 5% 1% 1% 1% 1%	16,573,027 62% 1% 30% 4% 1% 2% -505,637 -120% 25% 13% 0% 3% -21% 61% 32% 5% 1% 1% 1% 1%	16,333,932 61% 1% 31% 4% 1% 2% -228,461 -139% 50% 25% 0% 25% 0% 8% -44% 61% 32% 5% 1% 1% 1%	14,740,907 58% 3% 31% 5% 1% 2% -33,268 -345% 110% 239% 0% 46% -149% 61% 32% 5% 1% 1% 1% 1%	13,546,033 53% 6% 34% 5% 2% 1% -604,600 -115% 12% 7% 0% 5% -9% 56% 36% 5% 2% 0% 104.7% -4.7% 12,941,433 389	13,338,332 53% 5% 33% 5% 2% 2% -718,787 -110% 12% 4% 0% 5% -11% 56% 35% 6% 2% 1% 105.7% -5.7%	13,620,002 55% 1% 35% 5% 2% -642,268 -115% 17% 5% 0% 6% -13% 54% 37% 6% 2% 1% 104.9% 12,977,734 408

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

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

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

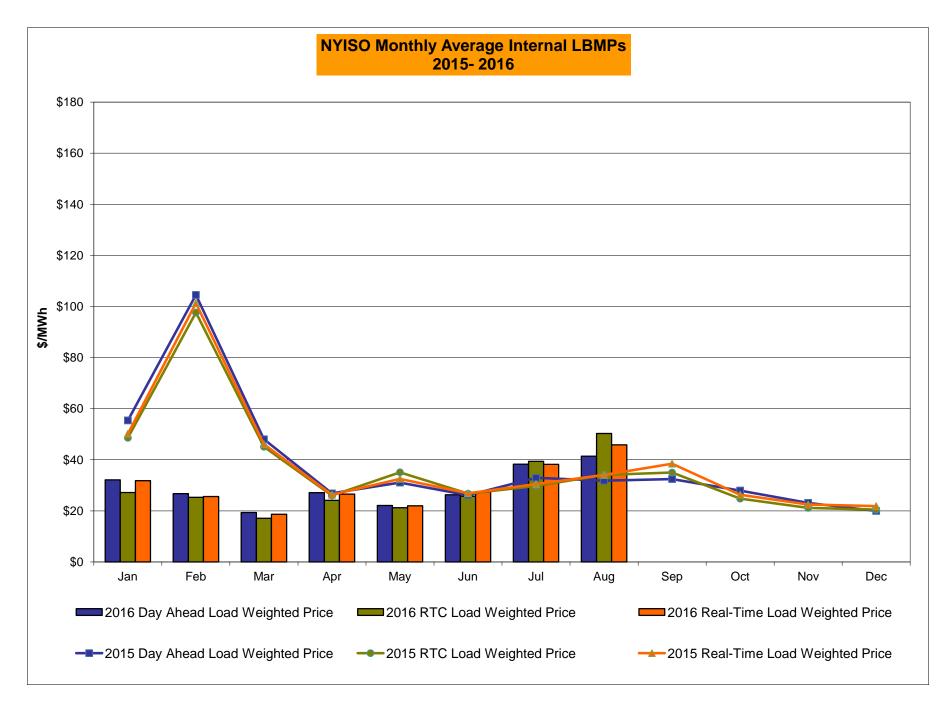
#### NYISO Markets 2016 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	July	August September	October November December
DAY AHEAD LBMP									
Price *	\$31.01	\$25.76	\$18.63	\$26.39	\$21.07	\$24.83	\$35.24	\$38.25	
Standard Deviation	\$10.86	\$12.46	\$6.99	\$6.95	\$7.04	\$9.21	\$18.37	\$20.59	
Load Weighted Price **	\$32.13	\$26.75	\$19.37	\$27.14	\$22.12	\$26.30	\$38.29	\$41.41	
RTC LBMP									
Price *	\$26.12	\$24.10	\$16.41	\$23.41	\$19.96	\$24.29	\$36.22	\$45.03	
Standard Deviation	\$16.06	\$17.89	\$11.32	\$9.09	\$11.44	\$16.58	\$38.04	\$70.57	
Load Weighted Price **	\$27.16	\$25.29	\$17.11	\$24.10	\$21.23	\$25.73	\$39.42	\$50.28	
REAL TIME LBMP									
Price *	\$30.15	\$24.28	\$17.84	\$25.71	\$20.67	\$25.87	\$34.40	\$40.87	
Standard Deviation	\$60.09	\$18.19	\$15.06	\$16.59	\$12.84	\$19.27	\$38.56	\$52.85	
Load Weighted Price **	\$31.80	\$25.61	\$18.64	\$26.57	\$21.99	\$27.39	\$38.20	\$45.82	
Average Daily Energy Sendout/Month GWh	439	436	397	385	397	456	532	548	

#### NYISO Markets 2015 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August S	<u>September</u>	<u>October</u>	November [	<u>December</u>
DAY AHEAD LBMP Price * Standard Deviation Load Weighted Price **	\$53.35 \$24.61 \$55.40	\$101.48 \$48.85 \$104.52	\$46.59 \$21.51 \$48.01	\$26.07 \$6.73 \$26.84	\$29.21 \$13.44 \$31.08	\$24.30 \$11.96 \$26.12	\$30.27 \$17.67 \$32.94	\$30.01 \$12.05 \$31.81	\$30.18 \$13.37 \$32.46	\$27.11 \$7.64 \$27.95	\$22.18 \$7.94 \$23.12	\$18.94 \$8.41 \$19.97
RTC LBMP Price * Standard Deviation Load Weighted Price **	\$46.98 \$22.84 \$48.59	\$95.06 \$47.55 \$97.62	\$43.43 \$29.42 \$45.10	\$25.11 \$12.31 \$26.00	\$32.85 \$35.40 \$35.08	\$24.73 \$24.71 \$26.73	\$27.51 \$21.84 \$29.76	\$31.83 \$23.25 \$34.04	\$32.39 \$22.99 \$34.99	\$23.97 \$10.56 \$24.79	\$20.07 \$15.66 \$21.17	\$19.34 \$14.23 \$20.46
REAL TIME LBMP         Price *         Standard Deviation         Load Weighted Price **	\$48.51 \$25.99 \$50.18	\$98.83 \$52.53 \$101.34	\$44.38 \$29.07 \$46.10	\$25.46 \$12.66 \$26.28	\$30.39 \$31.69 \$32.52	\$23.96 \$31.14 \$26.86	\$27.71 \$23.42 \$30.50	\$31.54 \$26.51 \$34.05	\$34.82 \$34.85 \$38.48	\$25.50 \$12.56 \$26.29	\$21.33 \$18.76 \$22.47	\$20.75 \$19.00 \$21.86
Average Daily Energy Sendout/Month GWh	462	481	436	387	409	450	512	511	473	389	396	408

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

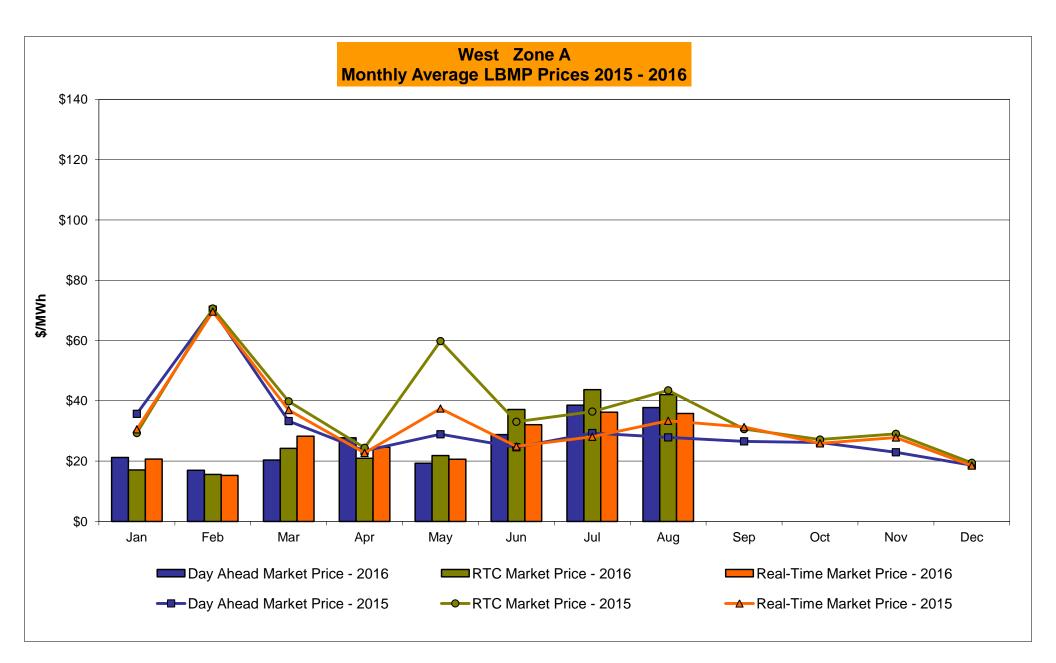


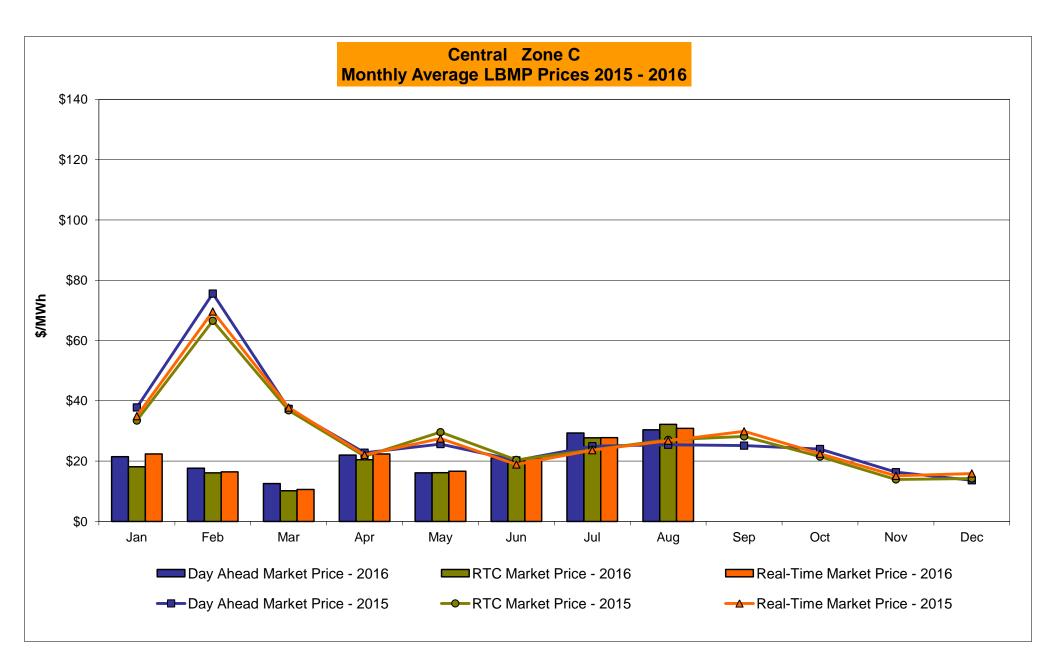
#### August 2016 Zonal LBMP Statistics for NYISO (\$/MWh)

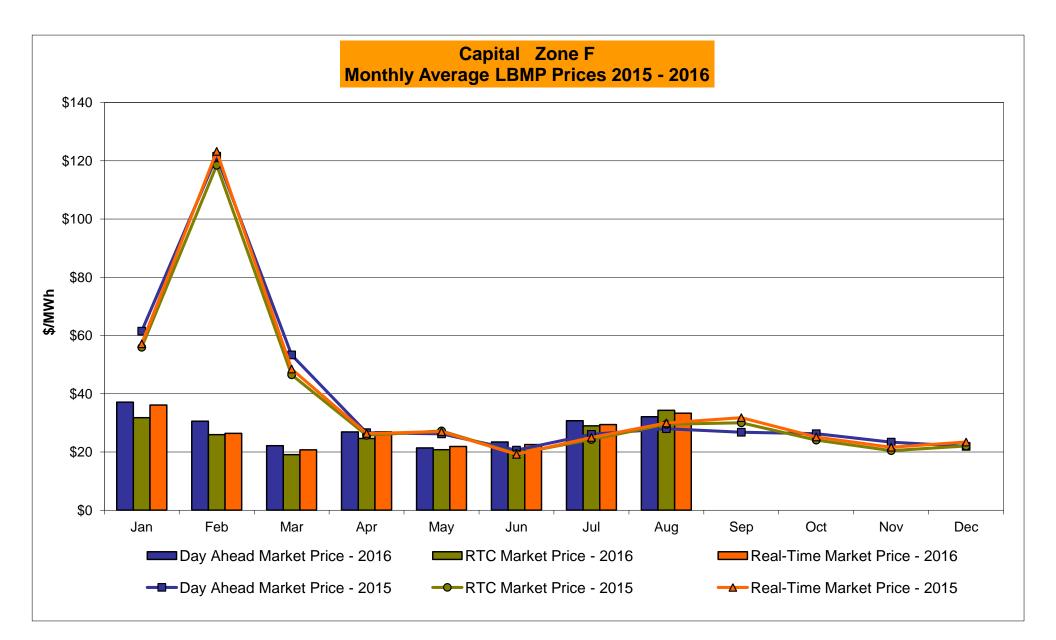
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	37.77	29.77	28.25	30.40	30.82	32.12	33.79	34.08	34.07	35.64	59.93
Standard Deviation	22.36	12.47	11.29	12.65	12.78	12.99	15.17	15.71	15.70	16.15	50.56
RTC LBMP											
Unweighted Price *	42.08	31.41	30.58	32.18	32.81	34.32	37.13	37.61	37.50	39.51	85.09
Standard Deviation	85.99	59.20	55.58	58.26	59.89	61.03	67.02	68.51	68.20	69.48	176.77
REAL TIME LBMP											
Unweighted Price *	35.79	30.47	29.44	30.87	31.94	33.34	37.57	38.28	38.20	41.22	59.96
Standard Deviation	50.92	36.94	34.65	36.21	37.73	37.48	55.33	59.46	59.66	61.10	108.03

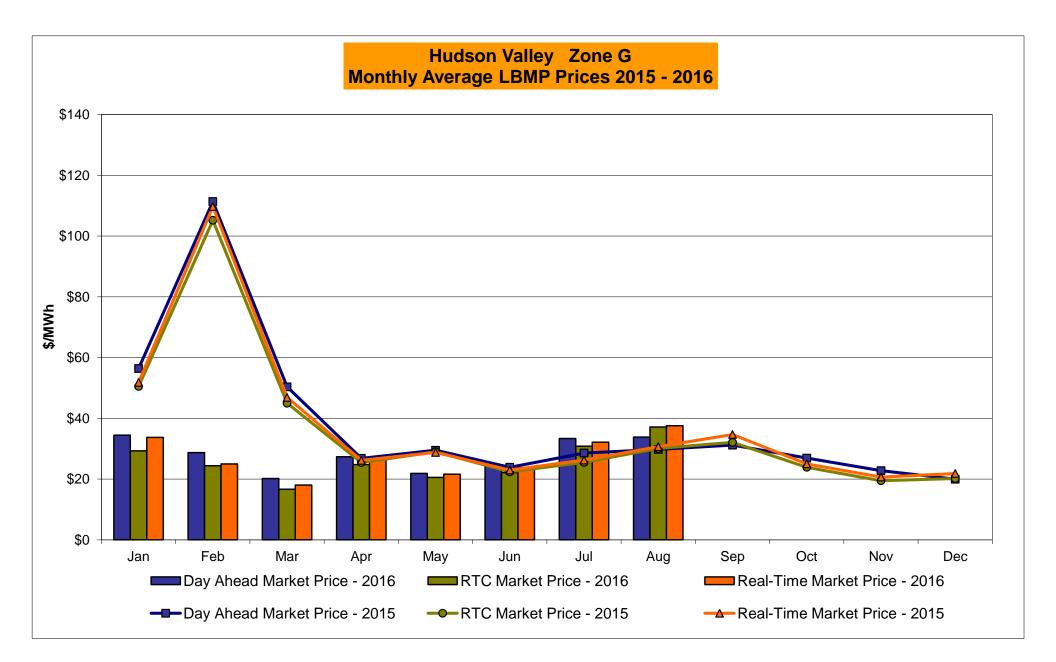
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	7000 0	Zana M	7 M	Zana D	Zana N	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>
DAY AHEAD LBMP	<u>Zone O</u>	<u>Zone M</u>	<u>Zone M</u>	<u>Zone P</u>	<u>Zone N</u>	Line	Line	Line	Line	Line	Line
Unweighted Price *	27.48	28.57	28.57	31.64	33.23	58.08	38.68	47.26	32.86	34.22	27.94
Standard Deviation	11.28	11.57	11.57	13.27	14.56	47.62	16.71	33.05	12.88	15.74	11.26
RTC LBMP											
Unweighted Price *	27.97	28.82	28.82	32.76	39.77	74.44	57.01	57.00	32.54	37.67	30.48
Standard Deviation	55.92	54.24	54.24	48.27	74.26	155.39	126.23	107.38	69.00	67.55	55.42
REAL TIME LBMP											
Unweighted Price *	27.67	27.80	27.80	31.66	37.53	54.77	42.53	45.01	31.89	38.37	28.65
Standard Deviation	35.42	32.33	32.33	39.10	54.17	107.22	103.81	101.46	64.21	59.56	35.00

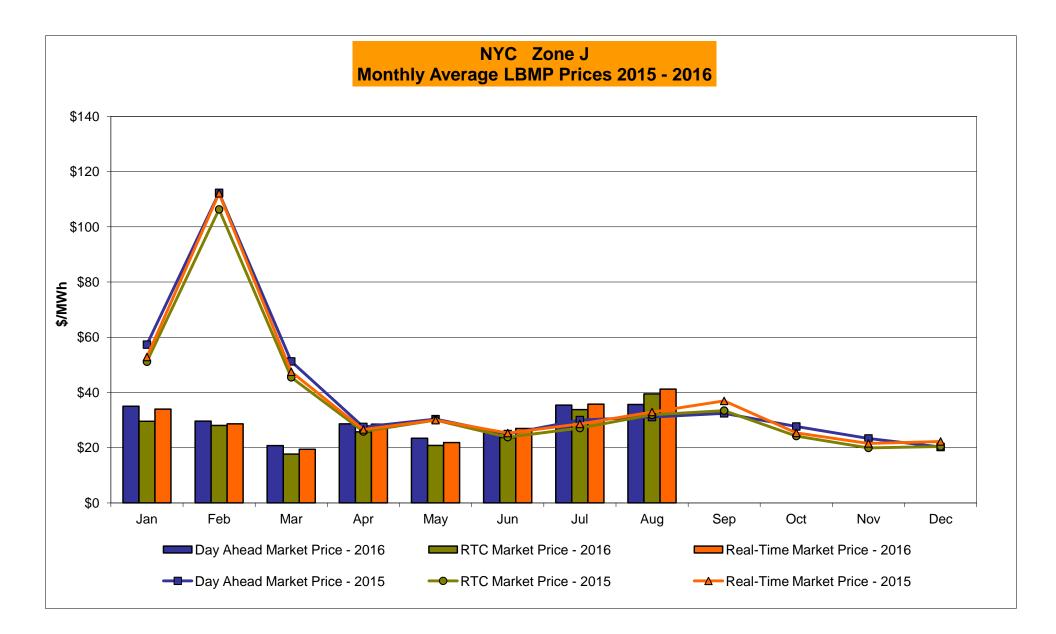
\* Straight LBMP averages

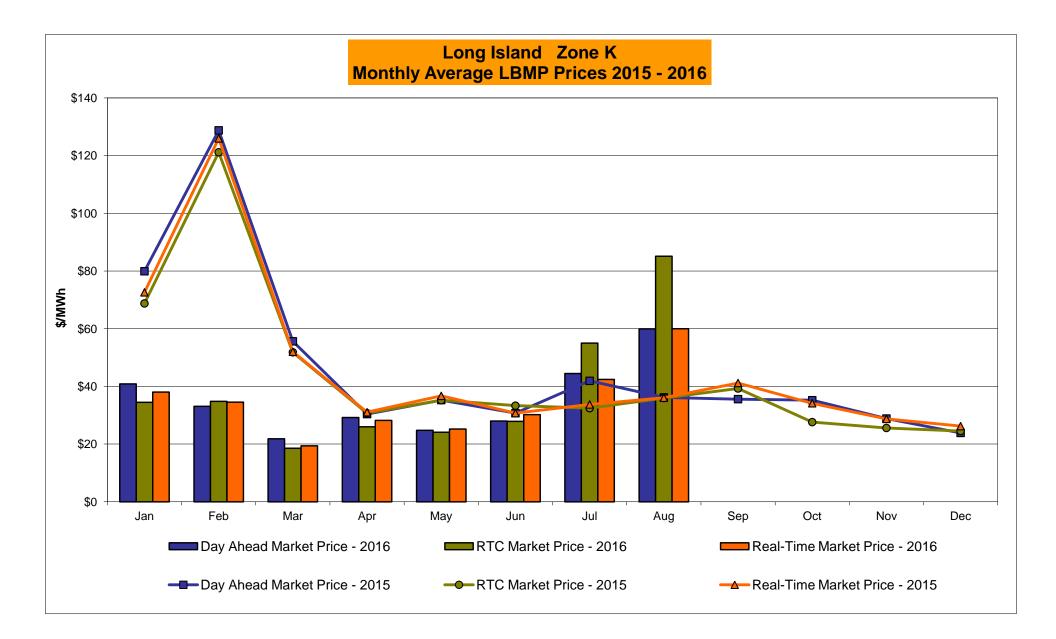


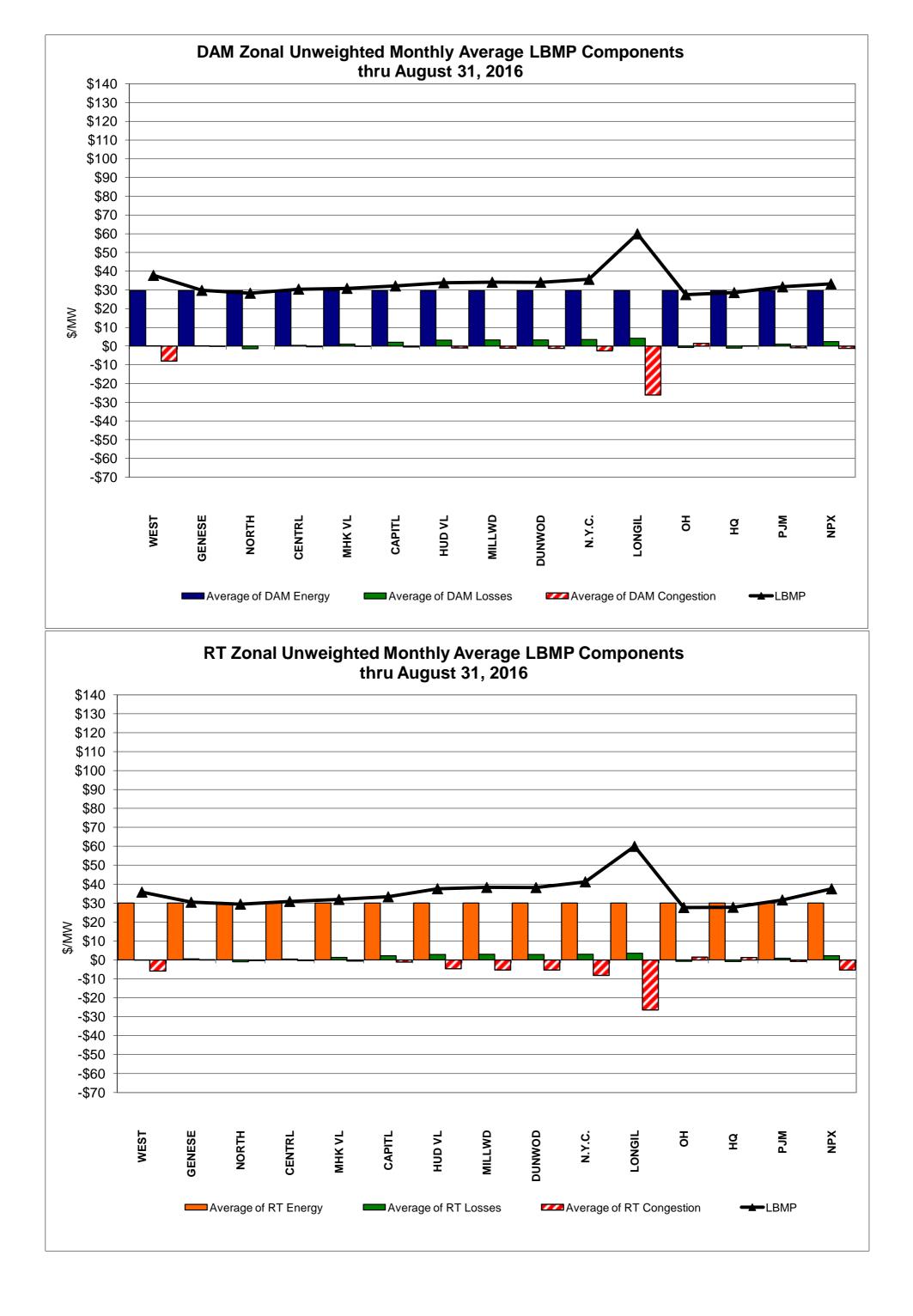




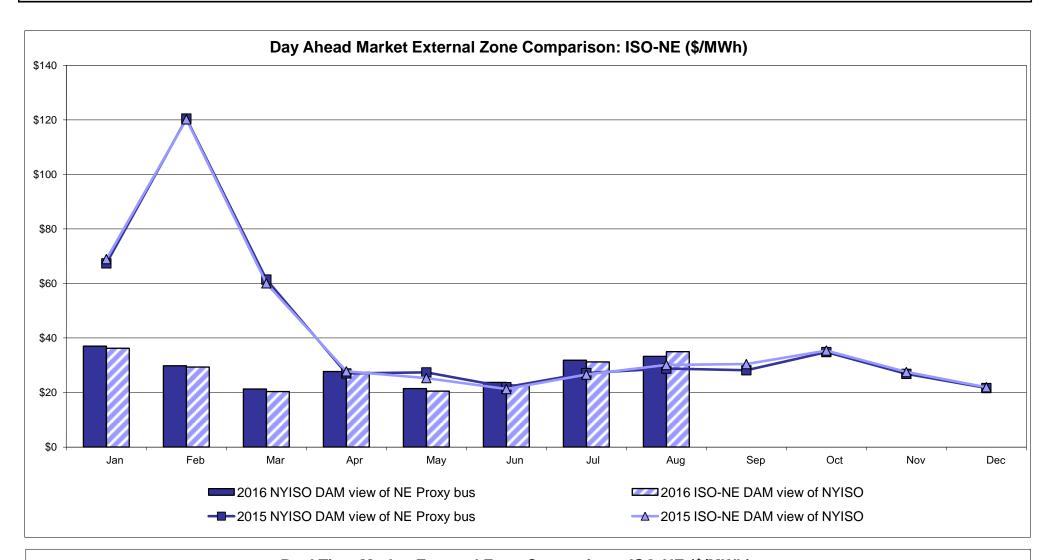


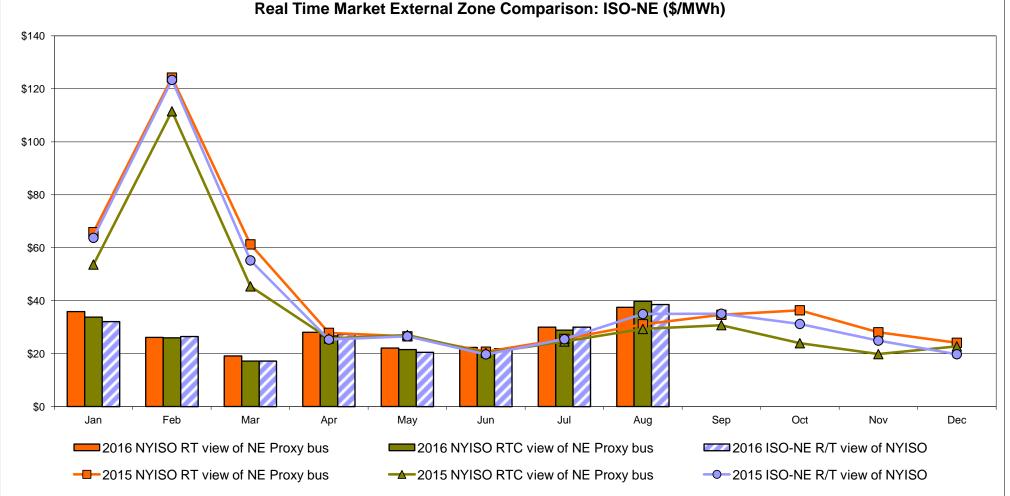


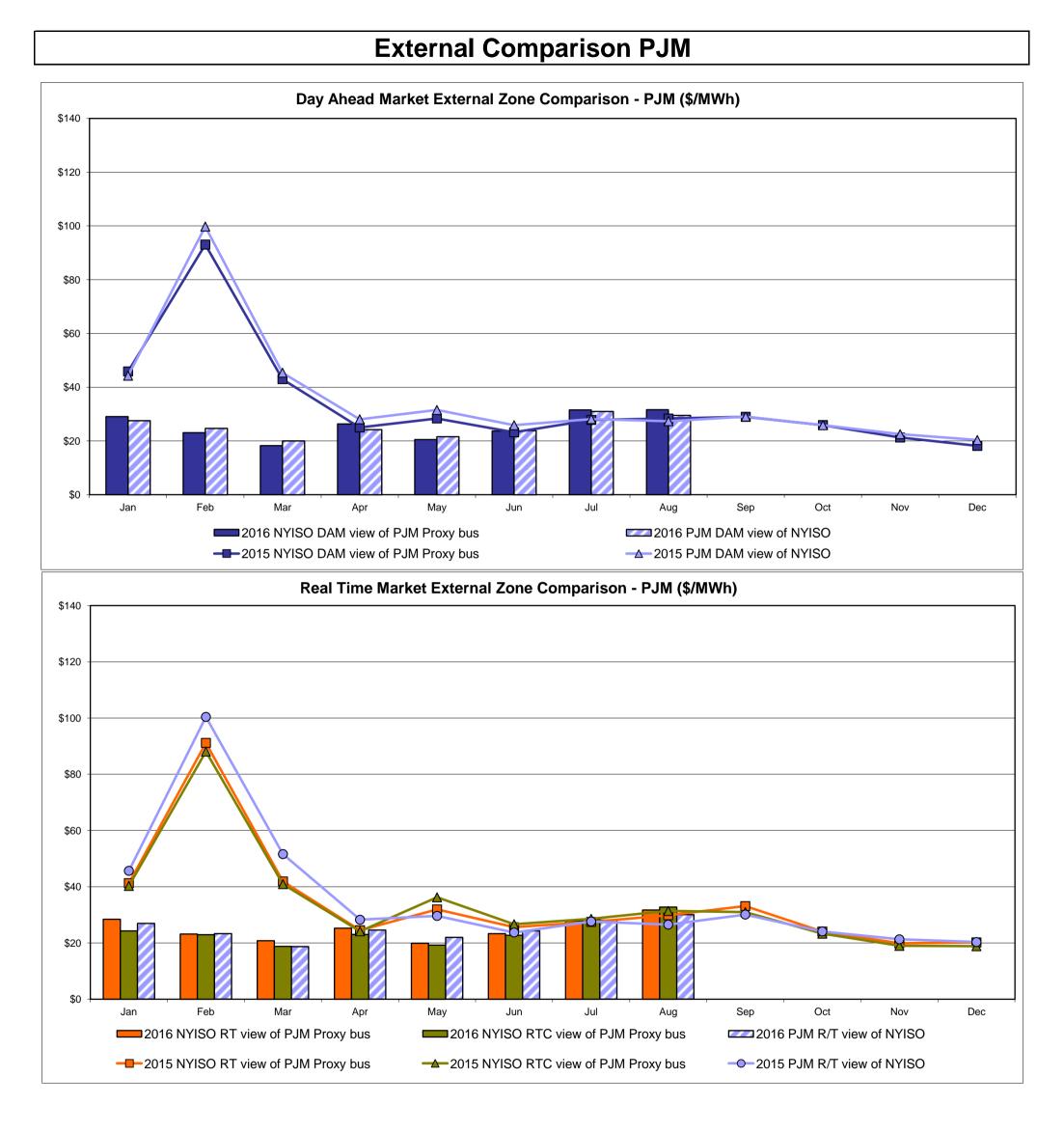




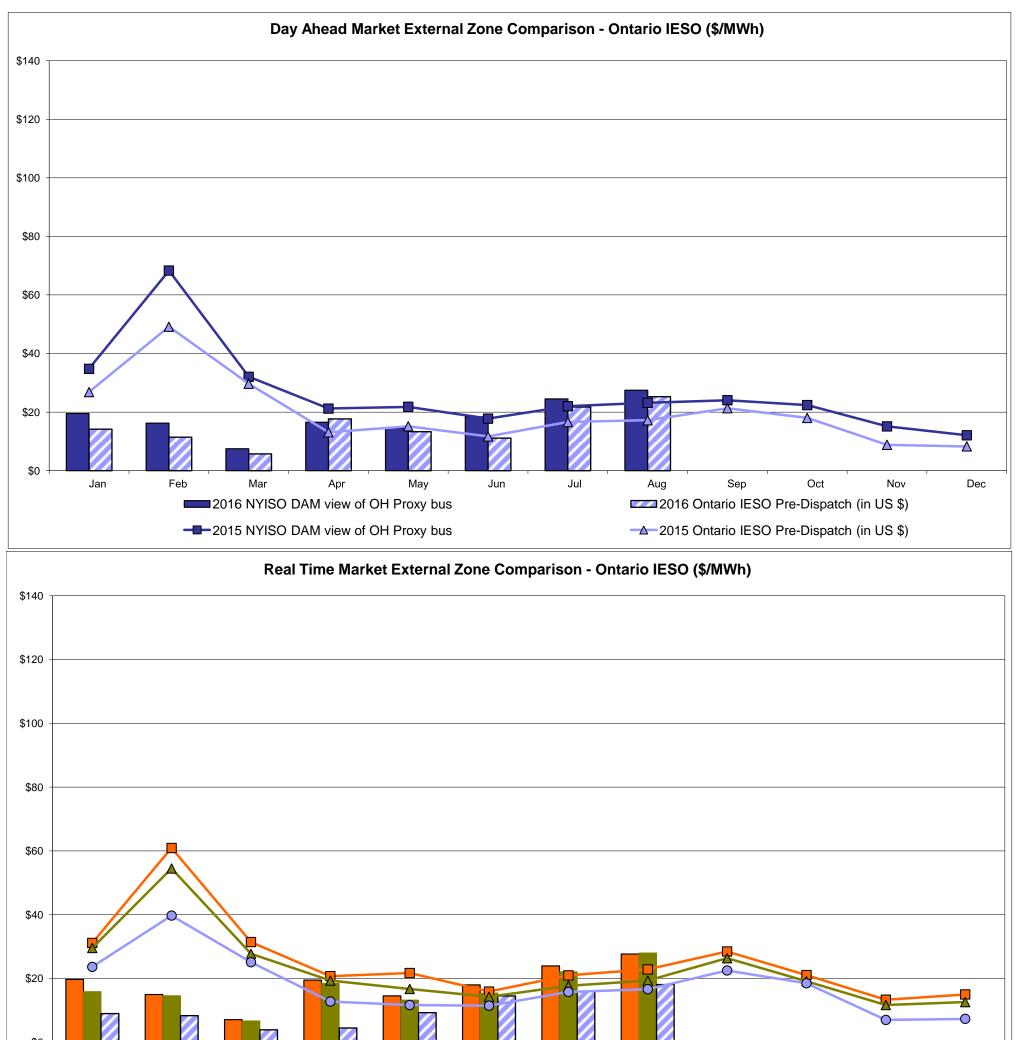
# **External Comparison ISO-New England**





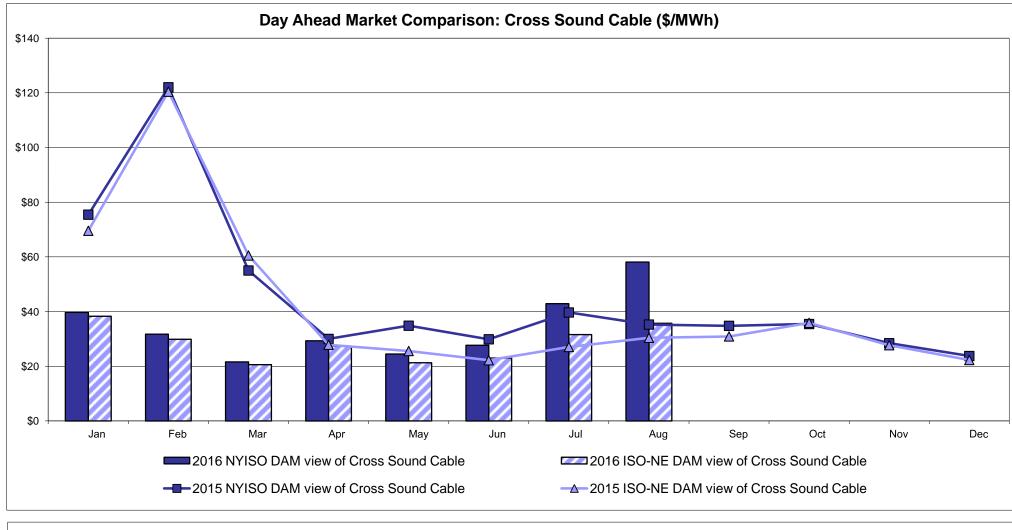


### **External Comparison Ontario IESO**

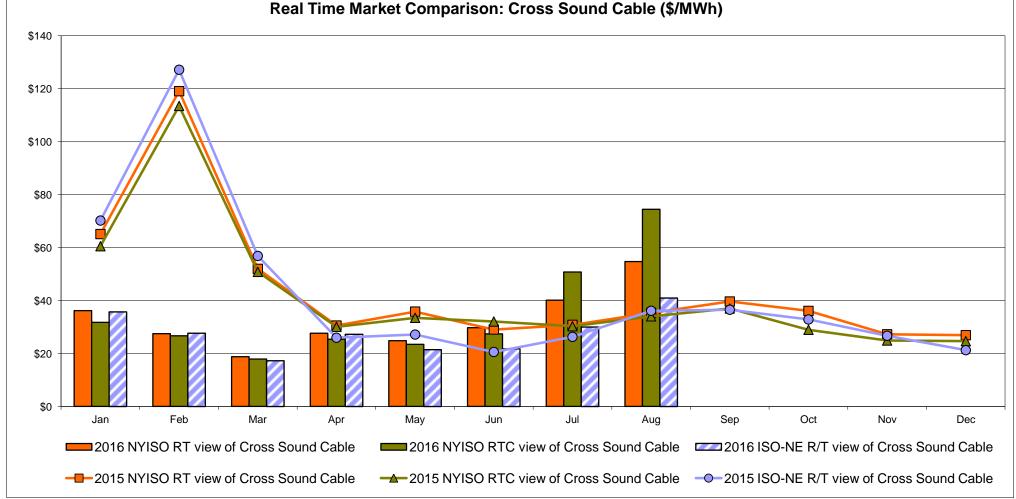




Notes: Exchange factor used for August 2016 was 0.764818356 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



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

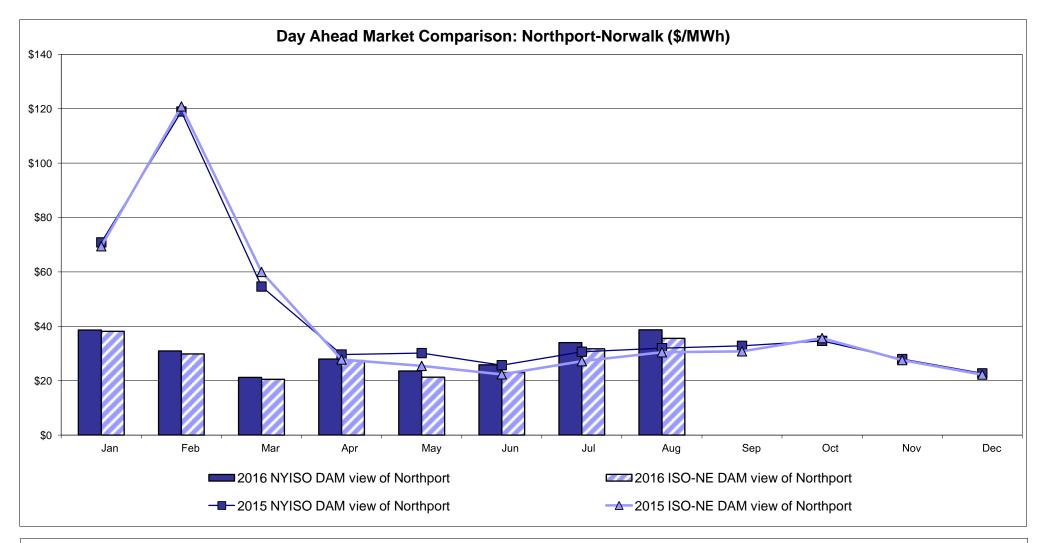


Note:

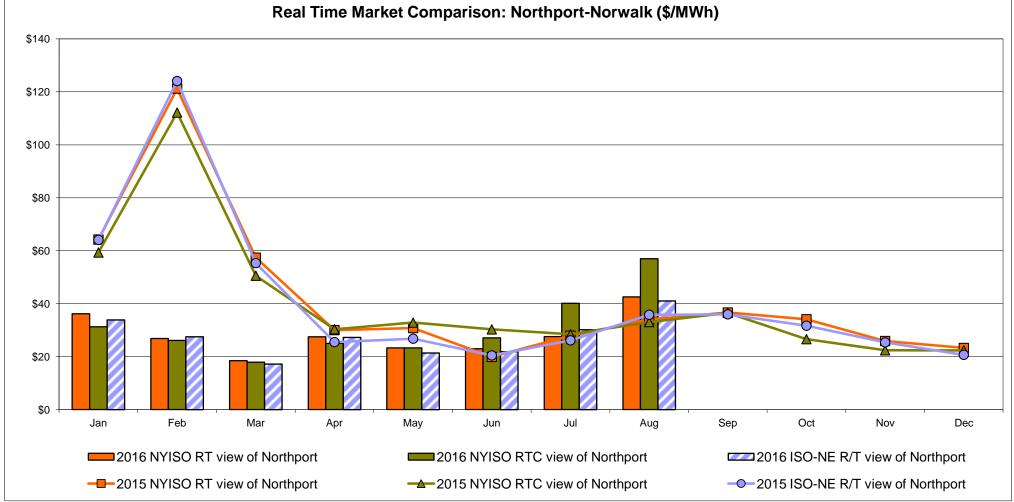
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



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

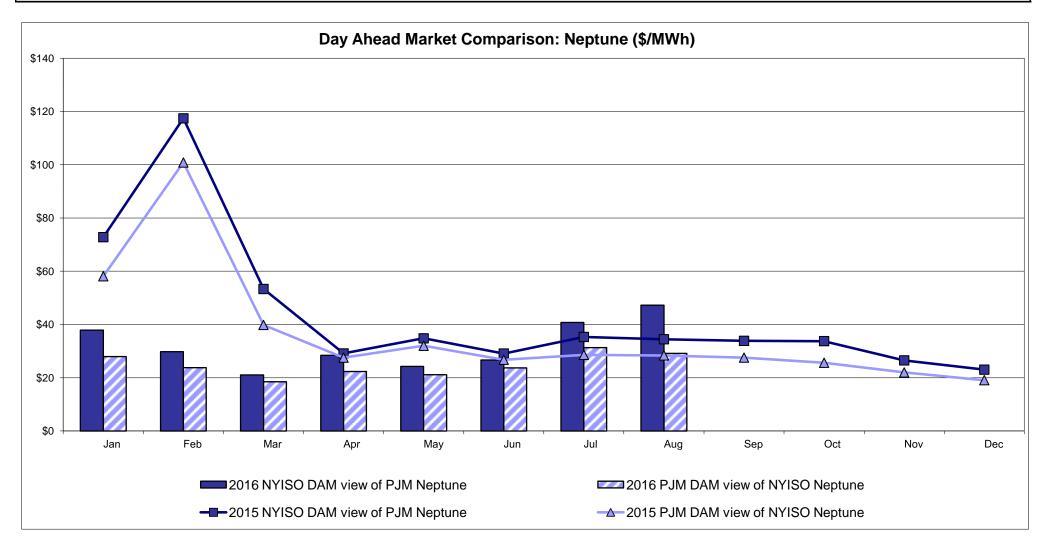


Note:

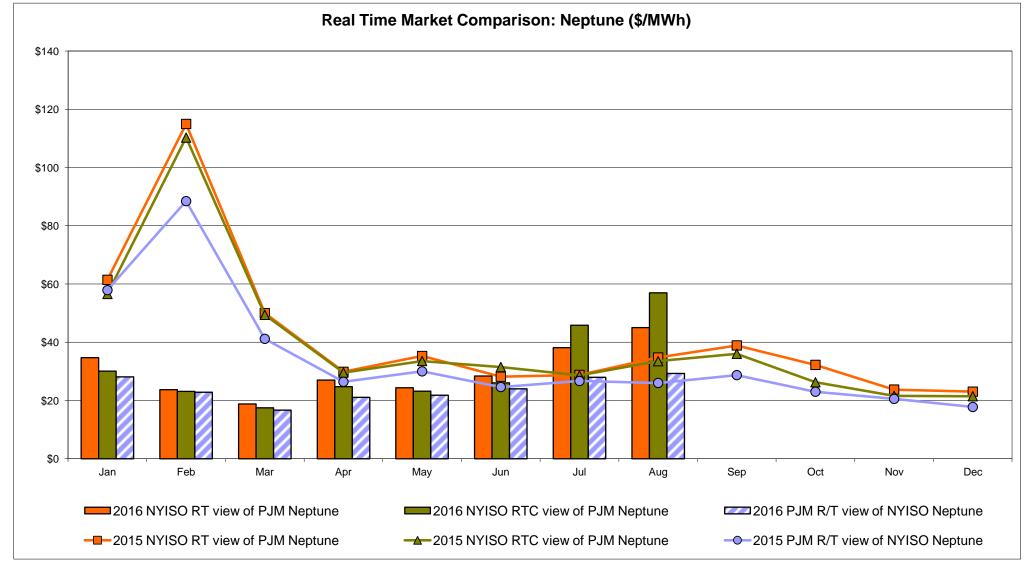
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

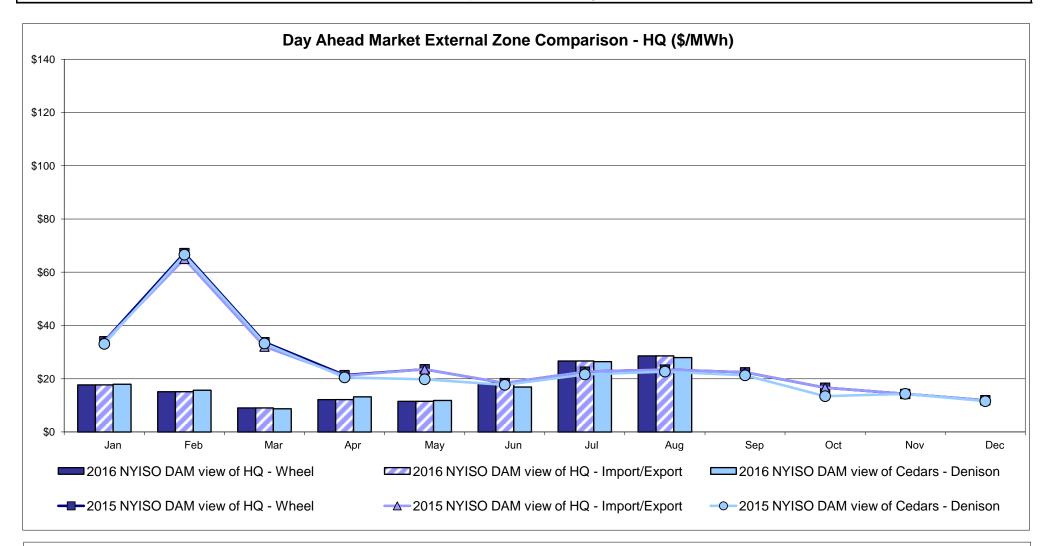
The DAM and R/T prices at the 1385 interface are used for NYISO.

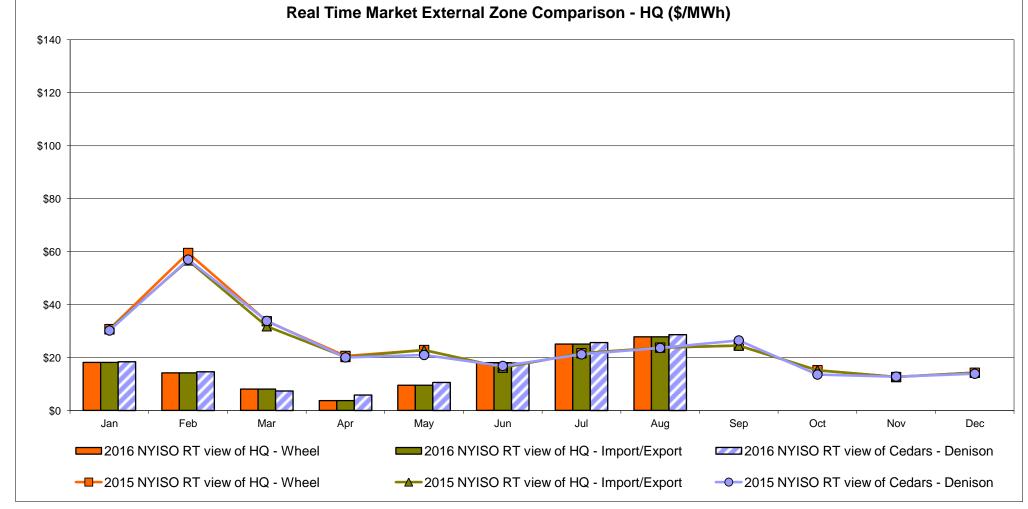


# **External Controllable Line: Neptune (PJM)**



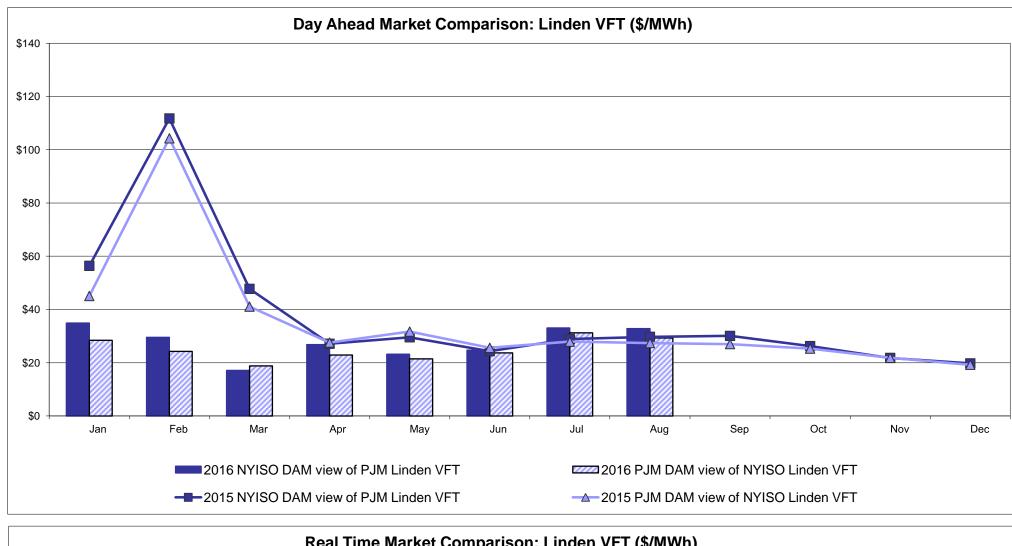
# **External Comparison Hydro-Quebec**



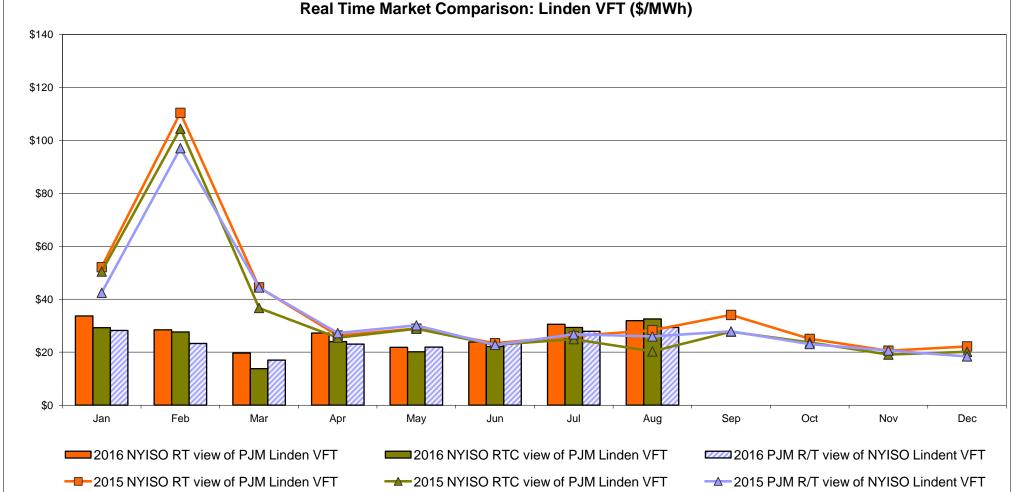


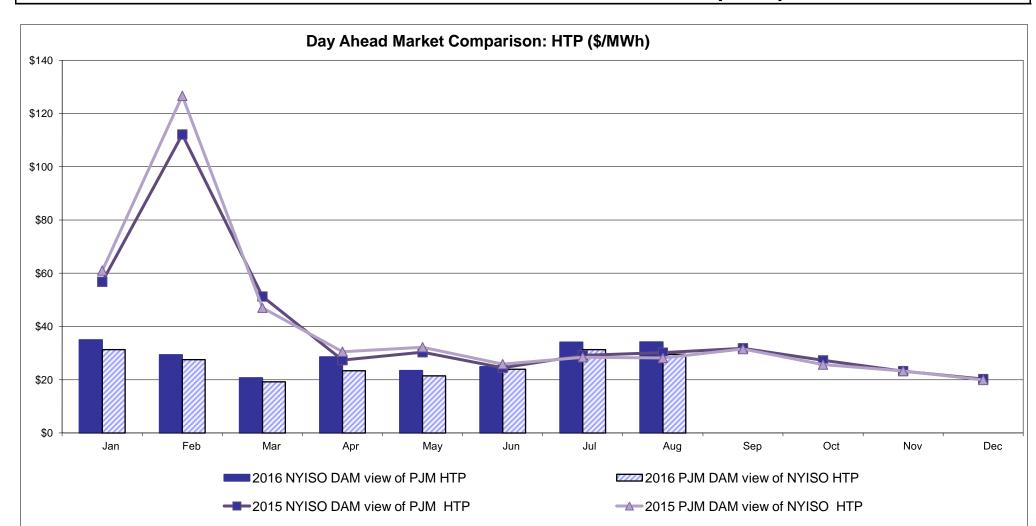
Note:

Hydro-Quebec Prices are unavailable.

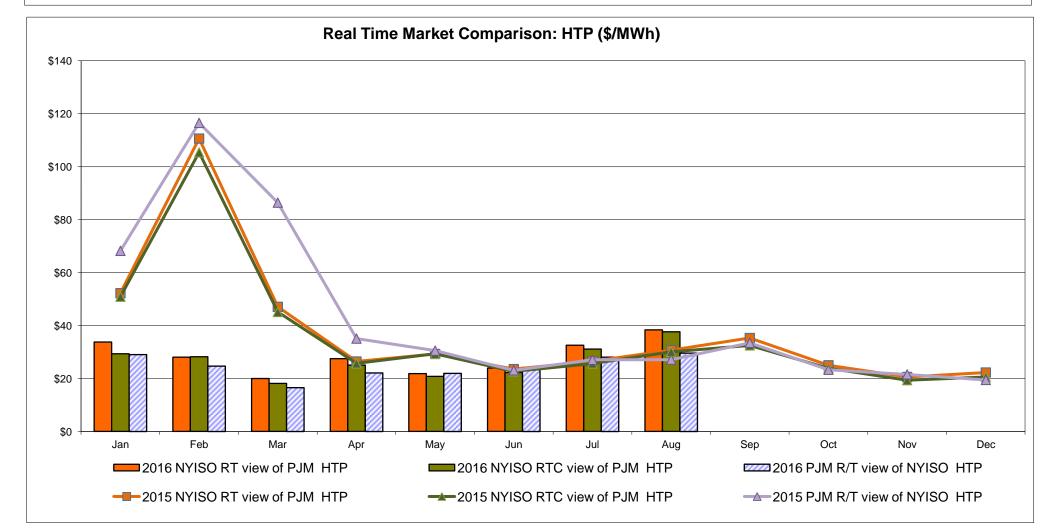


# **External Controllable Line: Linden VFT (PJM)**





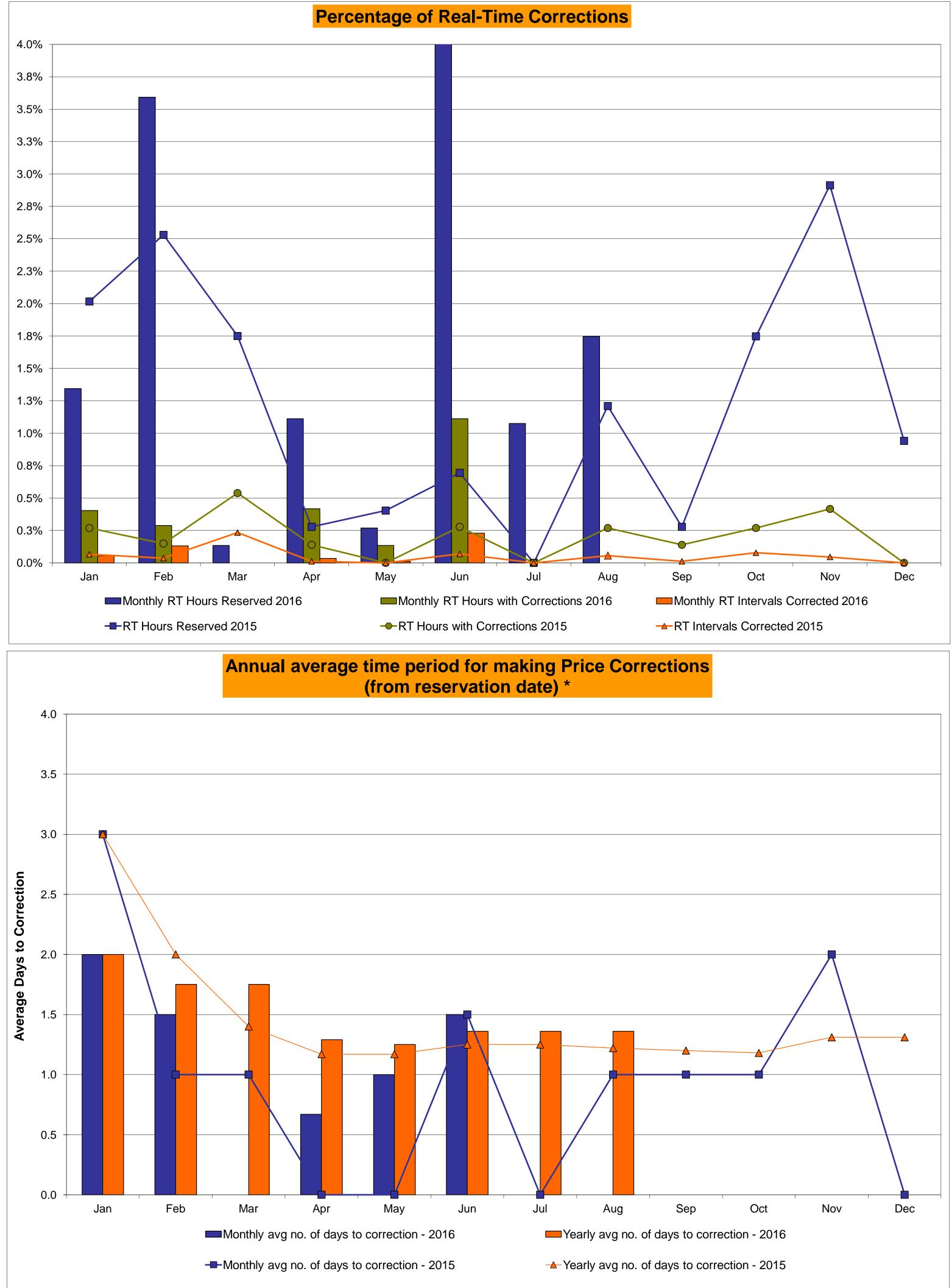
# **External Controllable Line: Hudson (PJM)**



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

0010			E a han a ma	Manah	۱ ۸ مه سنا	Maria	l	la de s	<u> </u>	0	Ostabas		
2016 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	3	2	0	3	1	8	0	0				
Number of hours	in the month	744	696	743	720	744	720	744	744				
% of hours with corrections	in the month	0.40%	0.29%	0.00%	0.42%	0.13%	1.11%	0.00%	0.00%				
% of hours with corrections	year-to-date	0.40%	0.35%	0.23%	0.28%	0.25%	0.39%	0.33%	0.29%				
Interval Corrections	year-io-uale	0.4076	0.5576	0.2370	0.2070	0.2370	0.3976	0.3370	0.2970				
Number of intervals corrected	in the month	5	11	0	3	1	20	0	0				
Number of intervals	in the month	9,000	8,440	8,995	8,724	8,987	8,725	9,038	9,048				
% of intervals corrected	in the month	0.06%	0.13%	0.00%	0.03%	0.01%	0.23%	0.00%	0.00%				
% of intervals corrected	year-to-date	0.06%	0.09%	0.06%	0.05%	0.05%	0.08%	0.06%	0.06%				
Hours Reserved		0.0070	0.0070	0.0070	010070	0.0070	010070	010070	0.0070				
Number of hours reserved	in the month	10	25	1	8	2	32	8	13				
Number of hours	in the month	744	696	743	720	744	720	744	744				
% of hours reserved	in the month	1.34%	3.59%	0.13%	1.11%	0.27%	4.44%	1.08%	1.75%				
% of hours reserved	year-to-date	1.34%	2.43%	1.65%	1.52%	1.26%	1.79%	1.68%	1.69%				
Days to Correction *	your to duto		211070		110270			110070					
Avg. number of days to correction	in the month	2.00	1.50	0.00	0.67	1.00	1.50	0.00	0.00				
Avg. number of days to correction	year-to-date	2.00	1.75	1.75	1.29	1.25	1.36	1.36	1.36				
Days Without Corrections	,												
Days without corrections	in the month	29	27	31	27	30	24	31	31				
Days without corrections	year-to-date	29	56	87	114	144	168	199	230				
2045		le e com c	<b>F</b> abrican <i>i</i>	Marah	انت سنا	Max	lune e	le de c	A	Contorchor	Ostahar	Nevreneber	December
2015 Hour Corrections		<u>January</u>	February	March	<u>April</u>	May	June	July	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Hour Corrections	in the month		February		<u>April</u>					<u>September</u>			
Hour Corrections Number of hours with corrections	in the month	2	1	4	1	0	2	0	2	1	2	3	0
Hour Corrections Number of hours with corrections Number of hours	in the month	2 744	1 672	4 743	1 720	0 744	2 720	0 744	2 744	1 720	2 744	3 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	2 744 0.27%	1 672 0.15%	4 743 0.54%	1 720 0.14%	0 744 0.00%	2 720 0.28%	0 744 0.00%	2 744 0.27%	1 720 0.14%	2 744 0.27%	3 721 0.42%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month	2 744	1 672	4 743	1 720	0 744	2 720	0 744	2 744	1 720	2 744	3 721	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	2 744 0.27% 0.27%	1 672 0.15% 0.21%	4 743 0.54% 0.32%	1 720 0.14%	0 744 0.00% 0.22%	2 720 0.28% 0.23%	0 744 0.00% 0.20%	2 744 0.27% 0.21%	1 720 0.14%	2 744 0.27% 0.21%	3 721 0.42% 0.22%	0 744 0.00% 0.21%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% <u>0.27%</u> 6	1 672 0.15% <u>0.21%</u> 3	4 743 0.54% <u>0.32%</u> 21	1 720 0.14% <u>0.28%</u> 1	0 744 0.00% <u>0.22%</u> 0	2 720 0.28% 0.23% 6	0 744 0.00% <u>0.20%</u> 0	2 744 0.27% <u>0.21%</u> 5	1 720 0.14% <u>0.20%</u> 1	2 744 0.27% <u>0.21%</u> 7	3 721 0.42% 0.22% 4	0 744 0.00% <u>0.21%</u> 0
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 6 9,066	1 672 0.15% <u>0.21%</u> 3 8,231	4 743 0.54% <u>0.32%</u> 21 9,005	1 720 0.14% <u>0.28%</u> 1 8,696	0 744 0.00% 0.22% 0 9,032	2 720 0.28% 0.23% 6 8,731	0 744 0.00% 0.20% 0 9,025	2 744 0.27% 0.21% 5 8,987	1 720 0.14% 0.20% 1 8,728	2 744 0.27% 0.21% 7 9,008	3 721 0.42% 0.22% 4 8,743	0 744 0.00% <u>0.21%</u> 0 8,975
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% <u>0.27%</u> 6	1 672 0.15% <u>0.21%</u> 3	4 743 0.54% <u>0.32%</u> 21	1 720 0.14% <u>0.28%</u> 1	0 744 0.00% <u>0.22%</u> 0	2 720 0.28% 0.23% 6	0 744 0.00% <u>0.20%</u> 0	2 744 0.27% <u>0.21%</u> 5	1 720 0.14% <u>0.20%</u> 1	2 744 0.27% <u>0.21%</u> 7	3 721 0.42% 0.22% 4	0 744 0.00% <u>0.21%</u> 0
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 6 9,066	1 672 0.15% <u>0.21%</u> 3 8,231	4 743 0.54% <u>0.32%</u> 21 9,005	1 720 0.14% <u>0.28%</u> 1 8,696	0 744 0.00% 0.22% 0 9,032	2 720 0.28% 0.23% 6 8,731	0 744 0.00% 0.20% 0 9,025	2 744 0.27% 0.21% 5 8,987	1 720 0.14% 0.20% 1 8,728	2 744 0.27% 0.21% 7 9,008	3 721 0.42% 0.22% 4 8,743	0 744 0.00% <u>0.21%</u> 0 8,975
Hour Corrections         Number of hours with corrections         Number of hours         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected	in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 6 9,066 0.07% 0.07%	1 672 0.15% <u>0.21%</u> 3 8,231 0.04% 0.05%	4 743 0.54% <u>0.32%</u> 21 9,005 0.23% 0.11%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07%	2 720 0.28% 0.23% 6 8,731 0.07%	0 744 0.00% 0.20% 0 9,025 0.00%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06%	1 720 0.14% <u>0.20%</u> 1 8,728 0.01% 0.05%	2 744 0.27% <u>0.21%</u> 7 9,008 0.08% 0.06%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06%	0 744 0.00% <u>0.21%</u> 0 8,975 0.00% <u>0.05%</u>
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber 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	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5	0 744 0.00% 0.20% 9,025 0.00% 0.06%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21	0 744 0.00% <u>0.21%</u> 0 8,975 0.00% <u>0.05%</u> 7
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber of hours reservedNumber of hours reservedNumber of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720	0 744 0.00% 0.20% 9,025 0.00% 0.06% 0 744	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721	0 744 0.00% <u>0.21%</u> 0 8,975 0.00% <u>0.05%</u> 7 744
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber 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	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5	0 744 0.00% 0.20% 9,025 0.00% 0.06%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21	0 744 0.00% <u>0.21%</u> 0 8,975 0.00% <u>0.05%</u> 7
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720	0 744 0.00% 0.20% 9,025 0.00% 0.06% 0 744	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721	0 744 0.00% <u>0.21%</u> 0 8,975 0.00% <u>0.05%</u> 7 744
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744 2.02% 2.02%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720 0.69%	0 744 0.00% 0.20% 9,025 0.00% 0.06% 0 744 0.00% 1.08%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744 1.21% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22%
Hour CorrectionsNumber of hours with correctionsNumber of hours with corrections% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	2 744 0.27% 0.27% 0.27% 6 9,066 0.07% 0.07% 0.07% 15 744 2.02% 2.02% 3.00	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26% 1.00	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08% 1.00	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63% 0.00	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38% 0.00	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 0.07% 5 720 0.69% 1.27% 1.50	0 744 0.00% 0.20% 9,025 0.00% 0.06% 0.06% 1.08% 0.00	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 0.06% 9 744 1.21% 1.10% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01% 1.00	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08% 1.00	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25% 2.00	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22% 0.00
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved <td>in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date</td> <td>2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744 2.02% 2.02%</td> <td>1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26%</td> <td>4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08%</td> <td>1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63%</td> <td>0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38%</td> <td>2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720 0.69% 1.27%</td> <td>0 744 0.00% 0.20% 9,025 0.00% 0.06% 0 744 0.00% 1.08%</td> <td>2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744 1.21% 1.10%</td> <td>1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01%</td> <td>2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08%</td> <td>3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25%</td> <td>0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22%</td>	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 6 9,066 0.07% 0.07% 15 744 2.02% 2.02%	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26%	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08%	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63%	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38%	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 5 720 0.69% 1.27%	0 744 0.00% 0.20% 9,025 0.00% 0.06% 0 744 0.00% 1.08%	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 9 744 1.21% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01%	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08%	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25%	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reserved% of hours reservedDays to Correction *Avg. number of days to correctionAvg. number of days to correctionAvg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 0.27% 6 9,066 0.07% 0.07% 0.07% 15 744 2.02% 2.02% 3.00 3.00 3.00	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26% 1.00 2.00	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08% 1.00 1.40	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63% 0.00 1.17	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38% 0.00 1.17	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 0.07% 5 720 0.69% 1.27% 1.50 1.25	0 744 0.00% 0.20% 9,025 0.00% 0.06% 0.06% 1.08% 0.00 1.25	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 0.06% 9 744 1.21% 1.10% 1.10% 1.22	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01% 1.00 1.20	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08% 1.00 1.18	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25% 2.00 1.31	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22% 0.00 1.31
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved <td>in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month</td> <td>2 744 0.27% 0.27% 0.27% 6 9,066 0.07% 0.07% 0.07% 15 744 2.02% 2.02% 3.00</td> <td>1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26% 1.00</td> <td>4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08% 1.00</td> <td>1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63% 0.00</td> <td>0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38% 0.00</td> <td>2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 0.07% 5 720 0.69% 1.27% 1.50</td> <td>0 744 0.00% 0.20% 9,025 0.00% 0.06% 0.06% 1.08% 0.00</td> <td>2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 0.06% 9 744 1.21% 1.10% 1.10%</td> <td>1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01% 1.00</td> <td>2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08% 1.00</td> <td>3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25% 2.00</td> <td>0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22% 0.00</td>	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	2 744 0.27% 0.27% 0.27% 6 9,066 0.07% 0.07% 0.07% 15 744 2.02% 2.02% 3.00	1 672 0.15% 0.21% 3 8,231 0.04% 0.05% 17 672 2.53% 2.26% 1.00	4 743 0.54% 0.32% 21 9,005 0.23% 0.11% 13 743 1.75% 2.08% 1.00	1 720 0.14% 0.28% 1 8,696 0.01% 0.09% 2 720 0.28% 1.63% 0.00	0 744 0.00% 0.22% 0 9,032 0.00% 0.07% 3 744 0.40% 1.38% 0.00	2 720 0.28% 0.23% 6 8,731 0.07% 0.07% 0.07% 5 720 0.69% 1.27% 1.50	0 744 0.00% 0.20% 9,025 0.00% 0.06% 0.06% 1.08% 0.00	2 744 0.27% 0.21% 5 8,987 0.06% 0.06% 0.06% 9 744 1.21% 1.10% 1.10%	1 720 0.14% 0.20% 1 8,728 0.01% 0.05% 2 720 0.28% 1.01% 1.00	2 744 0.27% 0.21% 7 9,008 0.08% 0.06% 13 744 1.75% 1.08% 1.00	3 721 0.42% 0.22% 4 8,743 0.05% 0.06% 21 721 2.91% 1.25% 2.00	0 744 0.00% 0.21% 0 8,975 0.00% 0.05% 7 744 0.94% 1.22% 0.00

\* Calendar days from reservation date.

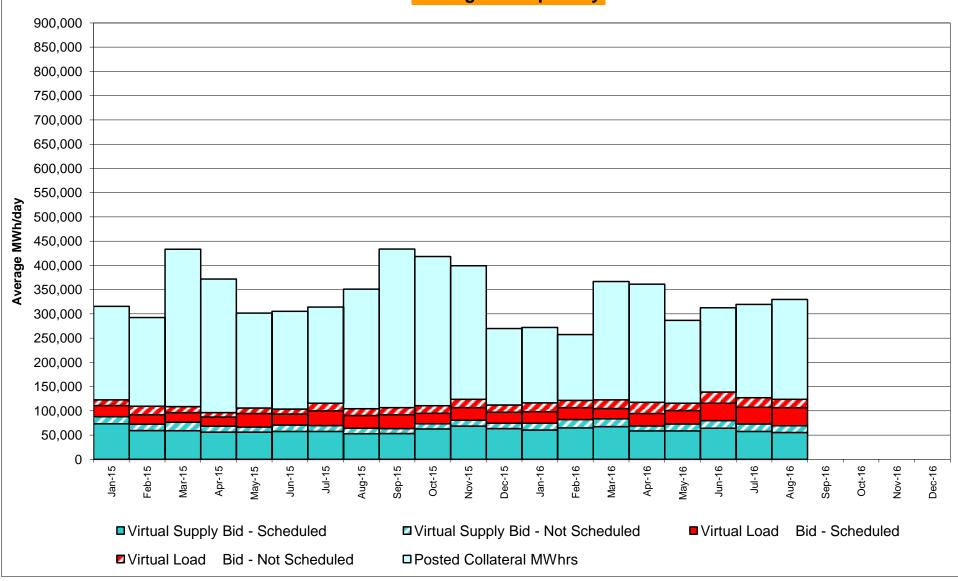


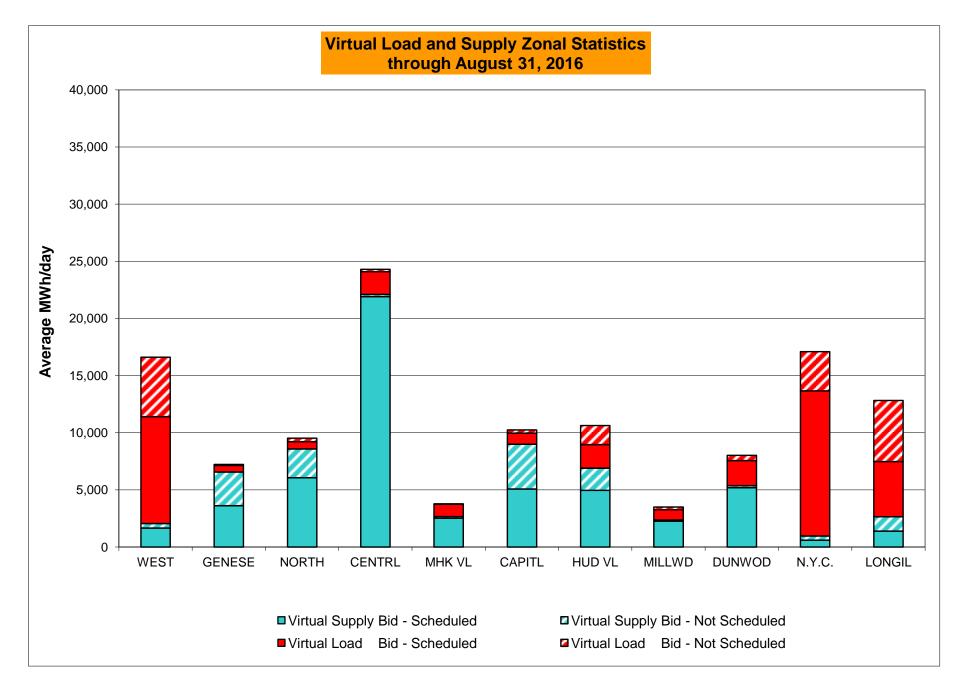
\* Calendar days from reservation date.

Market Mitigation and Analysis Prepared: 9/8/2016 2:25 PM

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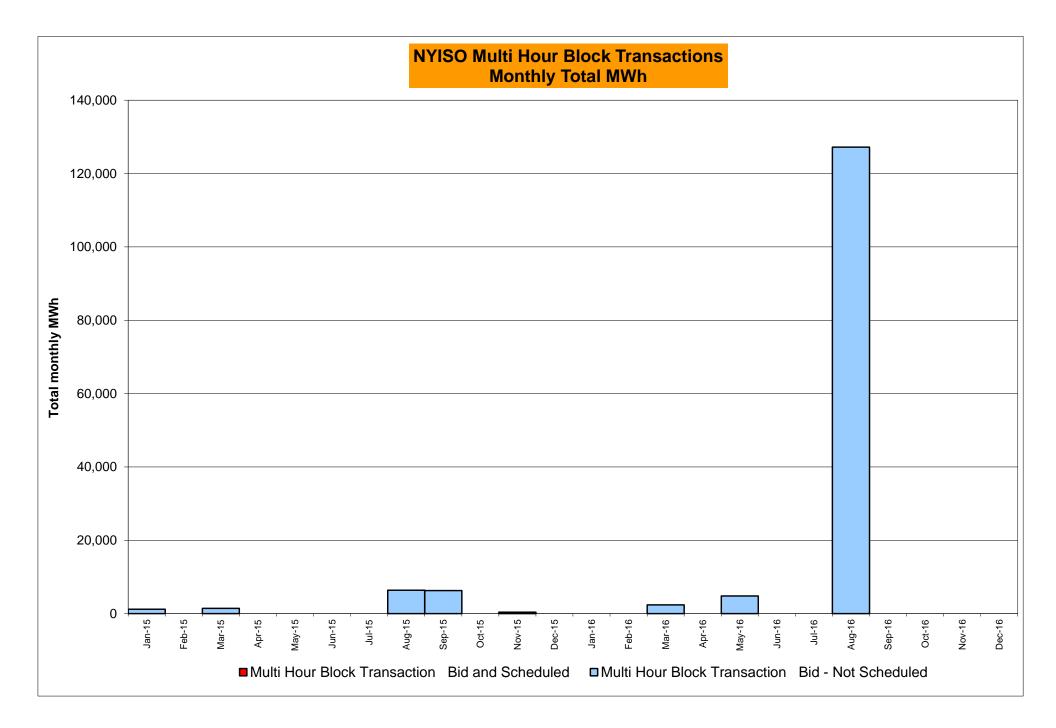
#### NYISO Virtual Trading Average MWh per day

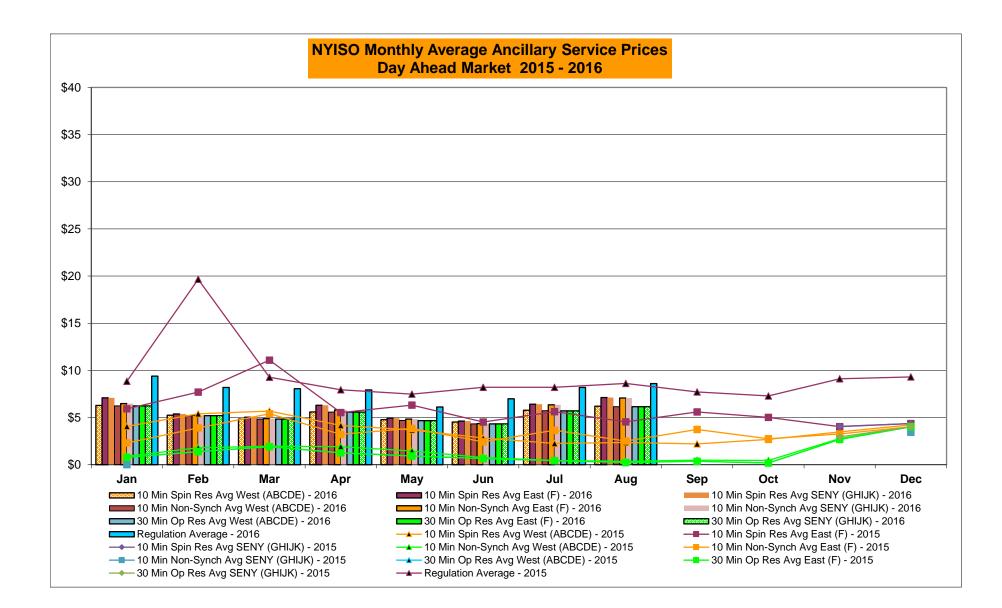


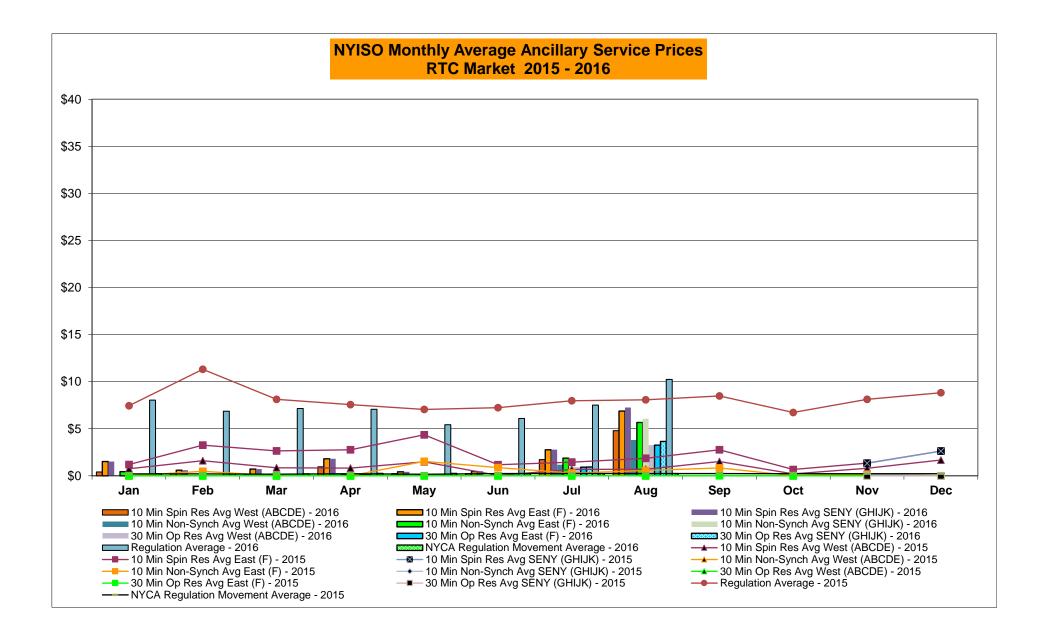


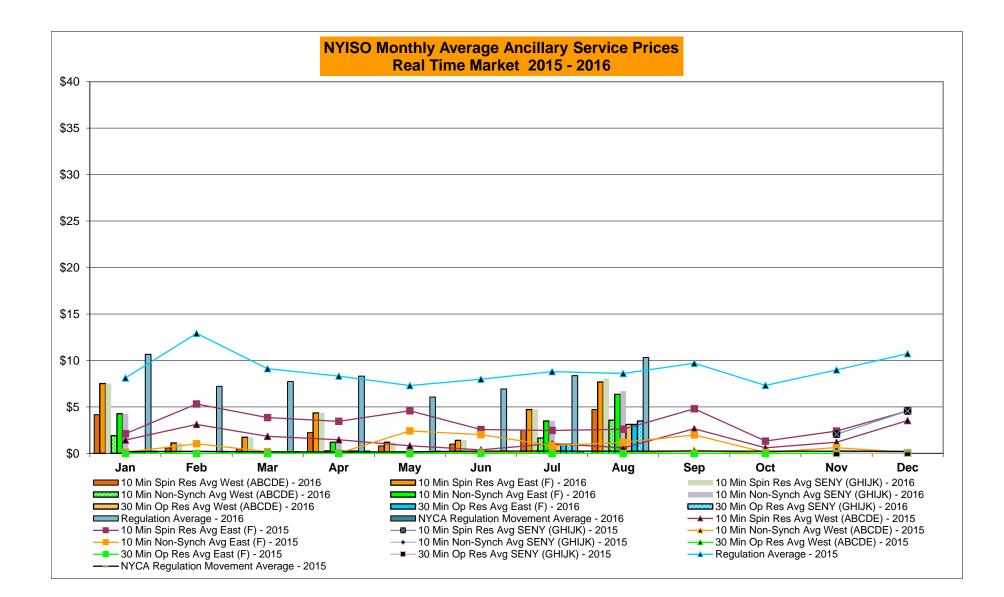
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2016

	T	Virtual L	oad Bid	Virtual S	upply Bid			Virtual L	oad Bid	Virtual Su	Jobly Bid			Virtual L	oad Bid	Virtual Su	upply Bid
			Not	Virtual O	Not			Vii taal E	Not	Thread Oc	Not			Virtual E	Not	Thread Oc	Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-16	8,416	4,440	2,862	419	MHK VL	Jan-16	463	92	2,024		DUNWOD	Jan-16		216	3,262	61
	Feb-16	7,967	3,554	2,706	521		Feb-16	544	80	2,329	611		Feb-16	803	185	3,555	269
	Mar-16	7,947	7,233	2,564	720		Mar-16		49	2,695			Mar-16		100	4,207	304
	Apr-16	11,544	10,793	1,645	263		Apr-16		55	2,236			Apr-16		48	4,840	
	May-16	8,896	4,966	2,511	678	_	May-16		33	2,036			May-16		435	6,261	431
	Jun-16	13,365	10,864	1,364	609	_	Jun-16		139	2,887	447		Jun-16		208	4,433	
	Jul-16	8,357	6,943	2,167	612	_	Jul-16		123	3,170			Jul-16		578	4,363	
	Aug-16	9,364	5,185	1,663	391	_	Aug-16		52	2,517	144		Aug-16		450	5,201	174
	Sep-16 Oct-16					_	Sep-16 Oct-16						Sep-16 Oct-16				
	Nov-16					_	Nov-16						Nov-16				
						_											
	Dec-16						Dec-16						Dec-16				
GENESE	Jan-16	1,030	638	3,868	2,421	CAPITL	Jan-16	2,195	1,472	4,568	3,470	N.Y.C.	Jan-16	2,862	4,976	2,531	648
	Feb-16	795	923	3,461	3,707		Feb-16		684	5,140			Feb-16		4,752	2,390	403
	Mar-16	824	1,113	5,340	3,764		Mar-16		238	5,023			Mar-16		4,229	1,239	748
	Apr-16	448	1,398	6,028	1,718		Apr-16	1,410	198	6,433	1,645		Apr-16	3,263	4,302	1,221	336
	May-16	411	125	3,793	2,664		May-16		251	5,843			May-16		3,352	1,425	
	Jun-16	501	323	4,945	2,340		Jun-16		119	6,428			Jun-16		3,847	930	
	Jul-16	615	312	3,785	-	_	Jul-16		271	5,755			Jul-16		3,980	692	
	Aug-16	576	80	3,626	2,944	_	Aug-16		274	5,085	3,917		Aug-16		3,433	599	363
	Sep-16					_	Sep-16						Sep-16				
	Oct-16					_	Oct-16						Oct-16				<u> </u>
	Nov-16 Dec-16						Nov-16 Dec-16						Nov-16 Dec-16				<u> </u>
	Dec-16						Dec-16						Dec-16				
NORTH	Jan-16	274	312	7,038	3,010	HUD VL	Jan-16	1,036	1,609	6,763	2,202	LONGIL	Jan-16	6,153	3,761	700	985
_	Feb-16	499	215	7,169	3,894		Feb-16		1,135	9,550	3,078		Feb-16		3,211	814	
	Mar-16	338	107	6,127	4,874		Mar-16		510	10,835			Mar-16		3,906	1,090	
	Apr-16	666	332	8,237	3,363		Apr-16	821	1,176	9,231	1,566		Apr-16	5,087	4,696	1,511	
	May-16	556	157	6,029	4,034		May-16	1,488	911	6,686	1,490		May-16		4,419	1,331	
	Jun-16	519	445		4,126		Jun-16		1,684	7,583			Jun-16		4,811	1,377	
	Jul-16	517	310	5,791	3,043	_	Jul-16		1,290	5,809			Jul-16	,	5,288	1,195	
	Aug-16	630	314	6,066	2,521	_	Aug-16		1,663	4,961	1,948		Aug-16		5,354	1,395	1,259
	Sep-16					_	Sep-16						Sep-16				
	Oct-16					_	Oct-16						Oct-16				
	Nov-16					_	Nov-16						Nov-16 Dec-16				
	Dec-16						Dec-16						Dec-16				
CENTRL	Jan-16	954	502	25,792	259	MILLWD	Jan-16	304	114	1,211	60	NYISO	Jan-16	24,086	18,132	60,619	13,680
	Feb-16	975	212	26,176			Feb-16		145	1,477	100		Feb-16		15,096	64,766	
	Mar-16	1,076	70			—	Mar-16		60	1,462			Mar-16	,	17,615		16,195
	Apr-16	1,124	159	15,555			Apr-16		26	1,913			Apr-16	,	23,182	58,849	
	May-16	2,369	250	21,046	367		May-16		121	1,743			May-16		15,021	58,704	
	Jun-16	2,285	469	23,910			Jun-16	489	121	2,582			Jun-16		23,031	64,331	15,648
	Jul-16	2,117	385	22,271	529		Jul-16	868	103	2,732			Jul-16		19,583	57,728	15,341
	Aug-16	1,984	204	21,918	187		Aug-16		234	2,267	104		Aug-16		17,244	55,297	13,952
	Sep-16						Sep-16						Sep-16				
	Oct-16						Oct-16						Oct-16				
	Nov-16						Nov-16						Nov-16				ļ
	Dec-16						Dec-16						Dec-16				l .







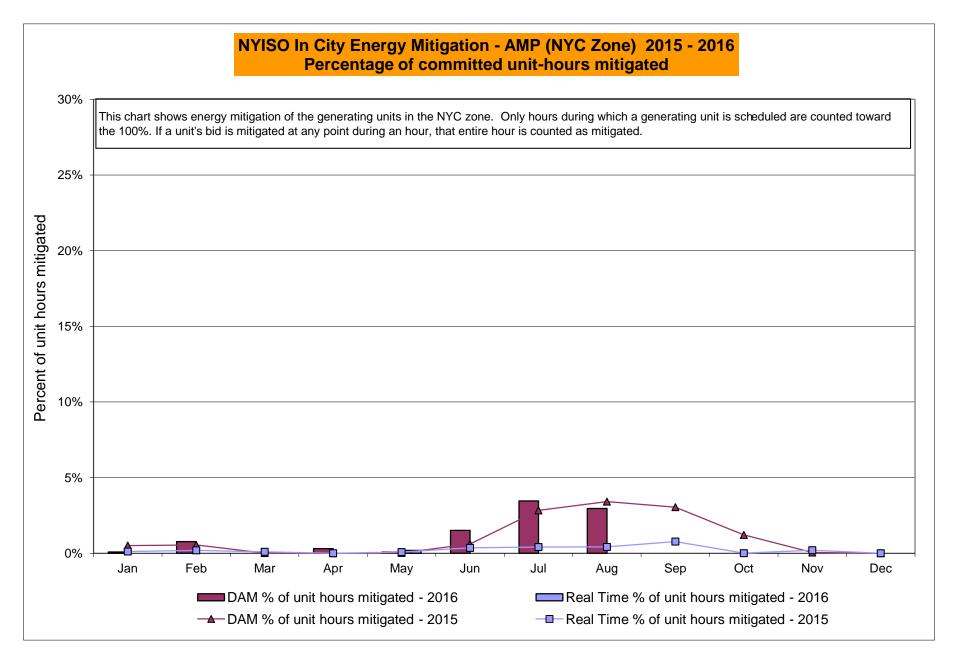


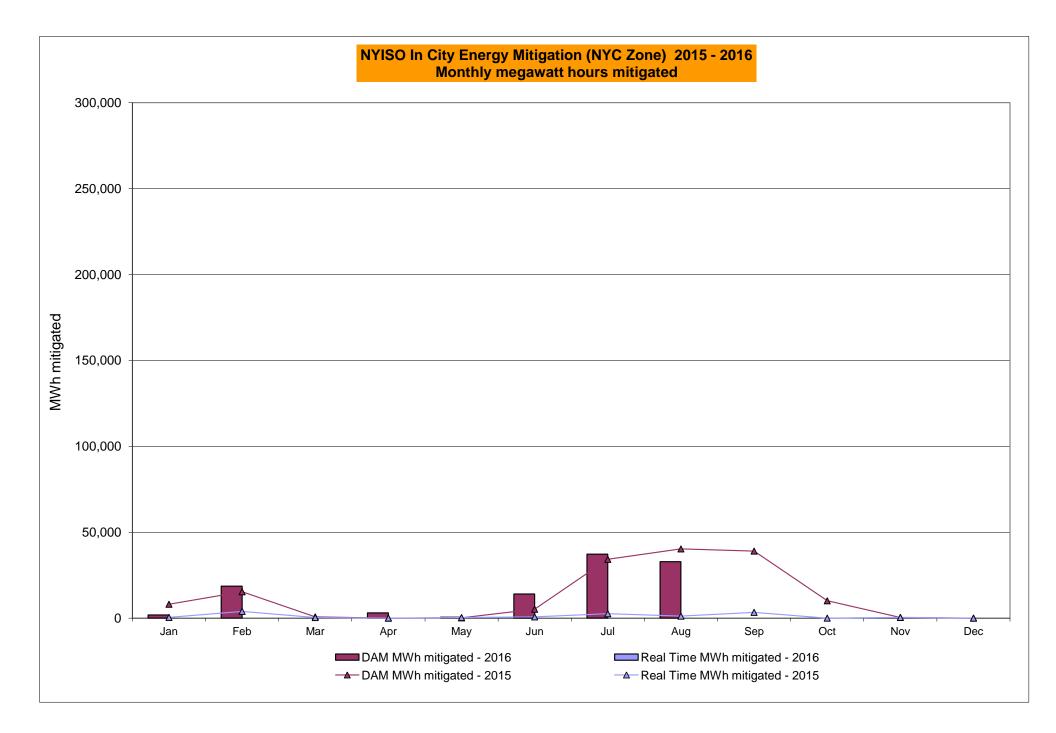
# NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

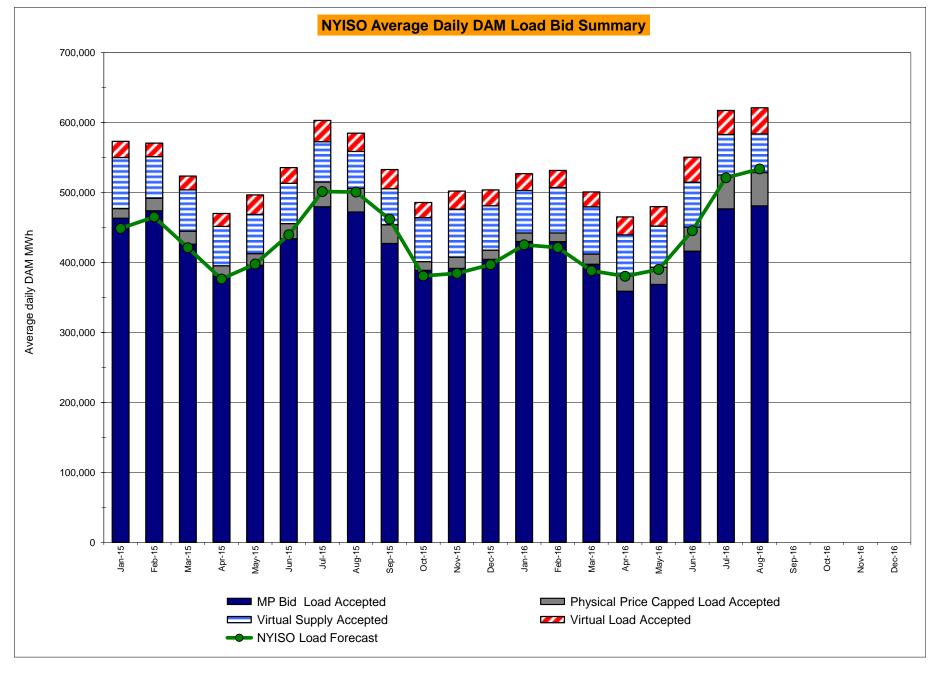
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<u>2016</u>	January	<b>February</b>	March	<u>April</u>	May	June	July
Day Ahead Market	<u></u>	<u></u>				<u></u>	<u> </u>
10 Min Spin SENY (GHIJK)	7.09	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin East (F)	7.09	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin West (ABCDE)	6.28	5.25	4.84	5.60	4.77	4.52	5.78
10 Min Non Synch SENY (GHIJK)	6.47	5.25	4.88	5.80	4.83	4.36	6.34
• • • •							
10 Min Non Synch East (F)	6.47	5.25	4.88	5.80	4.83	4.36	6.34
10 Min Non Synch West (ABCDE)	6.23	5.20	4.84	5.58	4.68	4.32	5.72
30 Min SENY (GHIJK)	6.23	5.20	4.84	5.58	4.67	4.32	5.70
30 Min East (F)	6.23	5.20	4.84	5.58	4.67	4.32	5.70
30 Min West (ABCDE)	6.23	5.20	4.84	5.58	4.67	4.32	5.70
Regulation	9.39	8.19	8.05	7.93	6.11	7.00	8.19
RTC Market							
10 Min Spin SENY (GHIJK)	1.53	0.59	0.71	1 01	0.43	0.40	2.79
•				1.81		0.49	
10 Min Spin East (F)	1.53	0.59	0.71	1.81	0.43	0.46	2.77
10 Min Spin West (ABCDE)	0.42	0.26	0.08	0.95	0.23	0.24	1.72
10 Min Non Synch SENY (GHIJK)	0.45	0.00	0.17	0.14	0.05	0.05	1.89
10 Min Non Synch East (F)	0.45	0.00	0.17	0.14	0.05	0.02	1.87
10 Min Non Synch West (ABCDE)	0.04	0.00	0.00	0.14	0.04	0.02	1.18
30 Min SENY (GHIJK)	0.01	0.00	0.00	0.14	0.04	0.04	0.94
30 Min East (F)	0.01	0.00	0.00	0.14	0.04	0.02	0.93
30 Min West (ABCDE)	0.01	0.00	0.00	0.14	0.04	0.02	0.93
Regulation	8.04	6.86	7.15	7.07	5.43	6.09	7.51
NYCA Regulation Movement	0.23	0.21	0.20	0.25	0.25	0.23	0.23
C C	0.20	•	0.20	0.20		0.20	0.20
Real Time Market							
10 Min Spin SENY (GHIJK)	7.51	1.12	1.73	4.34	1.19	1.43	4.73
10 Min Spin East (F)	7.51	1.12	1.73	4.34	1.19	1.40	4.72
10 Min Spin West (ABCDE)	4.17	0.58	0.48	2.23	0.79	1.00	2.51
10 Min Non Synch SENY (GHIJK)	4.26	0.00	0.22	1.20	0.06	0.15	3.49
10 Min Non Synch East (F)	4.26	0.00	0.22	1.20	0.06	0.11	3.48
10 Min Non Synch West (ABCDE)	1.89	0.00	0.00	0.26	0.03	0.04	1.65
30 Min SENY (GHIJK)	0.06	0.00	0.00	0.25	0.03	0.07	0.98
30 Min East (F)	0.06	0.00	0.00	0.25	0.03	0.04	0.97
30 Min West (ABCDE)	0.06	0.00	0.00	0.25	0.03	0.04	0.97
Regulation	10.66	7.21	7.73	8.30	6.06	6.92	8.37
0							
NYCA Regulation Movement	0.23	0.22	0.20	0.25	0.25	0.23	0.23
2015	lonuon	Tehruor (	Marah	April	Max	luna	lub.
2015	<u>January</u>	February	March	<u>April</u>	<u>May</u>	June	<u>July</u>
Day Ahead Market							
Day Ahead Market 10 Min Spin SENY (GHIJK)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	N/A 5.92	N/A 7.69	N/A 11.09	N/A 5.53	N/A 6.31	N/A 4.53	N/A 5.62
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	N/A 5.92 4.07	N/A 7.69 5.40	N/A 11.09 5.68	N/A 5.53 4.16	N/A 6.31 3.69	N/A 4.53 2.84	N/A 5.62 2.26
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	N/A 5.92 4.07 N/A	N/A 7.69 5.40 N/A	N/A 11.09 5.68 N/A	N/A 5.53 4.16 N/A	N/A 6.31 3.69 N/A	N/A 4.53 2.84 N/A	N/A 5.62 2.26 N/A
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	N/A 5.92 4.07	N/A 7.69 5.40	N/A 11.09 5.68	N/A 5.53 4.16	N/A 6.31 3.69	N/A 4.53 2.84	N/A 5.62 2.26
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	N/A 5.92 4.07 N/A	N/A 7.69 5.40 N/A	N/A 11.09 5.68 N/A	N/A 5.53 4.16 N/A	N/A 6.31 3.69 N/A	N/A 4.53 2.84 N/A	N/A 5.62 2.26 N/A
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	N/A 5.92 4.07 N/A 2.30	N/A 7.69 5.40 N/A 3.89	N/A 11.09 5.68 N/A 5.40	N/A 5.53 4.16 N/A 3.22	N/A 6.31 3.69 N/A 3.84	N/A 4.53 2.84 N/A 2.42	N/A 5.62 2.26 N/A 3.66
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	N/A 5.92 4.07 N/A 2.30 0.90 N/A	N/A 7.69 5.40 N/A 3.89 1.79 N/A	N/A 11.09 5.68 N/A 5.40 1.97 N/A	N/A 5.53 4.16 N/A 3.22 1.91 N/A	N/A 6.31 3.69 N/A 3.84 1.45 N/A	N/A 4.53 2.84 N/A 2.42 0.77 N/A	N/A 5.62 2.26 N/A 3.66 0.45 N/A
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)Regulation	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 1.38 19.65	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 8.20
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 1.38 19.65	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 8.20 N/A
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 1.38 19.65 N/A 3.27	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 8.20 N/A 1.44
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20 0.74	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 1.38 19.65 N/A 3.27 1.61	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64 0.86	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77 0.81	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36 1.48	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18 0.04	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 8.20 N/A 1.44 0.69
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 1.38 19.65 N/A 3.27	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 8.20 N/A 1.44
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20 0.74	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 1.38 19.65 N/A 3.27 1.61	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64 0.86	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77 0.81	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36 1.48	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18 0.04	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 8.20 N/A 1.44 0.69
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Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)30 Min SENY (GHIJK) <tr< td=""><td>N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20 0.74 N/A 0.01 0.00 N/A 0.00 0.00 7.45</td><td>N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 19.65 N/A 3.27 1.61 N/A 0.48 0.00 N/A 0.00 0.00 11.32</td><td>N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64 0.86 N/A 0.01 0.00 N/A 0.00 0.00 8.13</td><td>N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77 0.81 N/A 0.00 0.00 N/A 0.00 0.00 N/A 0.00 0.00 7.56</td><td>N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36 1.48 N/A 1.54 0.00 N/A 0.00 0.00 7.06</td><td>N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18 0.04 N/A 0.87 0.00 N/A 0.00 0.00 7.24</td><td>N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 8.20 N/A 0.43 8.20 N/A 0.43 8.20 N/A 0.28 0.00 N/A 0.28 0.00 N/A 0.00 0.00 7.97</td></tr<>	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20 0.74 N/A 0.01 0.00 N/A 0.00 0.00 7.45	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 19.65 N/A 3.27 1.61 N/A 0.48 0.00 N/A 0.00 0.00 11.32	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64 0.86 N/A 0.01 0.00 N/A 0.00 0.00 8.13	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77 0.81 N/A 0.00 0.00 N/A 0.00 0.00 N/A 0.00 0.00 7.56	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36 1.48 N/A 1.54 0.00 N/A 0.00 0.00 7.06	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18 0.04 N/A 0.87 0.00 N/A 0.00 0.00 7.24	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 8.20 N/A 0.43 8.20 N/A 0.43 8.20 N/A 0.28 0.00 N/A 0.28 0.00 N/A 0.00 0.00 7.97
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Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min SENY (GHIJK)30 Min Sen SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)10 Min Spin East (F)30 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin East (F)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Non Synch SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min SENY (GHIJK)30 Mi	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20 0.74 N/A 0.01 0.00 N/A 0.01 0.00 N/A 0.00 0.00 7.45 0.21 N/A 2.12 1.44 N/A 0.12 0.00 N/A	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 19.65 N/A 3.27 1.61 N/A 0.48 0.00 N/A 0.00 0.00 11.32 0.21 N/A 5.31 3.11 N/A 5.31 3.11 N/A 0.00 N/A	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64 0.86 N/A 0.01 0.00 N/A 0.00 0.00 8.13 0.16 N/A 3.84 1.83 N/A 0.17 0.00 N/A 0.00 0.00	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77 0.81 N/A 0.00 0.00 N/A 0.00 0.00 7.56 0.22 N/A 3.44 1.46 N/A 0.01 0.00 N/A 0.01 0.00 N/A	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36 1.48 N/A 1.54 0.00 N/A 0.00 0.00 7.06 0.16 N/A 4.59 0.81 N/A 2.41 0.00 N/A 2.41 0.00 N/A	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18 0.04 N/A 0.00 N/A 0.00 N/A 0.00 N/A 0.00 0.00 7.24 0.24 N/A 2.56 0.38 N/A 2.56 0.38 N/A 2.01 0.19 N/A 0.02 0.02	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 0.43 8.20 N/A 0.43 8.20 N/A 0.43 0.43 8.20 N/A 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.28 0.00 N/A 0.28 0.00 7.97 0.25 N/A 0.25 N/A 0.43 0.45 N/A 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min West (ABCDE)Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)30 Min SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Non Synch West (ABCDE)30 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK) <td< td=""><td>N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20 0.74 N/A 0.01 0.00 0.74 N/A 0.01 0.00 N/A 0.00 7.45 0.21 N/A 2.12 1.44 N/A 0.12 0.00 N/A 0.12 0.00 N/A</td><td>N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 19.65 N/A 3.27 1.61 N/A 0.48 0.00 N/A 0.00 0.00 11.32 0.21 N/A 5.31 3.11 N/A 5.31 3.11 N/A 1.03 0.00 N/A</td><td>N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64 0.86 N/A 0.01 0.00 N/A 0.00 0.00 8.13 0.16 N/A 3.84 1.83 N/A 0.17 0.00 N/A 0.01 0.00 N/A</td><td>N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77 0.81 N/A 0.00 0.00 N/A 0.00 0.00 N/A 0.00 0.00 7.56 0.22 N/A 3.44 1.46 N/A 0.01 0.00 N/A 3.44 1.46 N/A</td><td>N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36 1.48 N/A 1.54 0.00 N/A 0.00 0.00 7.06 0.16 N/A 4.59 0.81 N/A 4.59 0.81 N/A 4.59 0.81 N/A 0.00 N/A 3.84</td><td>N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18 0.04 N/A 0.00 N/A 0.00 N/A 0.00 N/A 0.00 0.00 7.24 0.24 N/A 2.56 0.38 N/A 2.56 0.38 N/A 2.01 0.19 N/A 0.02 0.02 7.97</td><td>N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 0.43 8.20 N/A 1.44 0.69 N/A 0.28 0.00 N/A 0.00 0.00 7.97 0.25 N/A 2.47 1.04 N/A 0.83 0.00 N/A 0.00 0.00 8.80</td></td<>	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20 0.74 N/A 0.01 0.00 0.74 N/A 0.01 0.00 N/A 0.00 7.45 0.21 N/A 2.12 1.44 N/A 0.12 0.00 N/A 0.12 0.00 N/A	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 19.65 N/A 3.27 1.61 N/A 0.48 0.00 N/A 0.00 0.00 11.32 0.21 N/A 5.31 3.11 N/A 5.31 3.11 N/A 1.03 0.00 N/A	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64 0.86 N/A 0.01 0.00 N/A 0.00 0.00 8.13 0.16 N/A 3.84 1.83 N/A 0.17 0.00 N/A 0.01 0.00 N/A	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77 0.81 N/A 0.00 0.00 N/A 0.00 0.00 N/A 0.00 0.00 7.56 0.22 N/A 3.44 1.46 N/A 0.01 0.00 N/A 3.44 1.46 N/A	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36 1.48 N/A 1.54 0.00 N/A 0.00 0.00 7.06 0.16 N/A 4.59 0.81 N/A 4.59 0.81 N/A 4.59 0.81 N/A 0.00 N/A 3.84	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18 0.04 N/A 0.00 N/A 0.00 N/A 0.00 N/A 0.00 0.00 7.24 0.24 N/A 2.56 0.38 N/A 2.56 0.38 N/A 2.01 0.19 N/A 0.02 0.02 7.97	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 0.43 8.20 N/A 1.44 0.69 N/A 0.28 0.00 N/A 0.00 0.00 7.97 0.25 N/A 2.47 1.04 N/A 0.83 0.00 N/A 0.00 0.00 8.80
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SE	N/A 5.92 4.07 N/A 2.30 0.90 N/A 0.77 0.77 8.84 N/A 1.20 0.74 N/A 0.01 0.00 N/A 0.01 0.00 N/A 0.00 0.00 7.45 0.21 N/A 2.12 1.44 N/A 0.12 0.00 N/A	N/A 7.69 5.40 N/A 3.89 1.79 N/A 1.38 1.38 19.65 N/A 3.27 1.61 N/A 0.48 0.00 N/A 0.00 0.00 11.32 0.21 N/A 5.31 3.11 N/A 5.31 3.11 N/A 0.00 N/A	N/A 11.09 5.68 N/A 5.40 1.97 N/A 1.91 1.91 9.27 N/A 2.64 0.86 N/A 0.01 0.00 N/A 0.00 0.00 8.13 0.16 N/A 3.84 1.83 N/A 0.17 0.00 N/A 0.00 0.00	N/A 5.53 4.16 N/A 3.22 1.91 N/A 1.26 1.26 7.94 N/A 2.77 0.81 N/A 0.00 0.00 N/A 0.00 0.00 7.56 0.22 N/A 3.44 1.46 N/A 0.01 0.00 N/A 0.01 0.00 N/A	N/A 6.31 3.69 N/A 3.84 1.45 N/A 0.93 0.93 7.48 N/A 4.36 1.48 N/A 1.54 0.00 N/A 0.00 0.00 7.06 0.16 N/A 4.59 0.81 N/A 2.41 0.00 N/A 2.41 0.00 N/A	N/A 4.53 2.84 N/A 2.42 0.77 N/A 0.64 0.64 8.20 N/A 1.18 0.04 N/A 0.00 N/A 0.00 N/A 0.00 N/A 0.00 0.00 7.24 0.24 N/A 2.56 0.38 N/A 2.56 0.38 N/A 2.01 0.19 N/A 0.02 0.02	N/A 5.62 2.26 N/A 3.66 0.45 N/A 0.43 0.43 0.43 8.20 N/A 0.43 8.20 N/A 0.43 0.43 8.20 N/A 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.28 0.00 N/A 0.28 0.00 7.97 0.25 N/A 0.25 N/A 0.43 0.45 N/A 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43

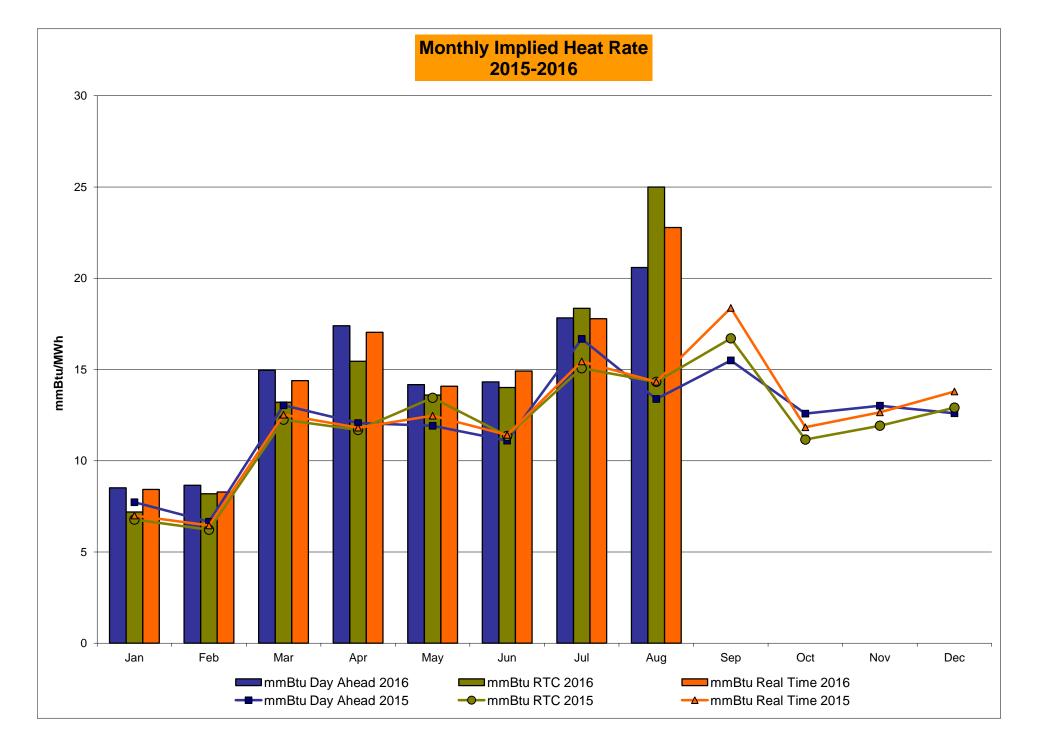
<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61				
7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24				
8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 3.12 3.12 10.31 0.24				

<u>August</u>	<u>September</u>	<u>October</u>	November	December
N/A	N/A	N/A	4.06	4.36
4.54	5.60	5.02	4.03	4.36
2.36	2.20	2.68	3.47	4.22
N/A	N/A	N/A	3.44	4.03
2.51	3.74	2.75	3.27	4.03
0.36	0.49	0.45	2.77	4.02
N/A	N/A	N/A	2.95	4.02
0.24	0.37	0.18	2.69	4.02
0.24	0.37	0.18	2.69	4.02
8.61	7.71	7.29	9.10	9.30
N/A	N/A	N/A	1.33	2.62
1.86	2.76	0.67	1.35	2.62
0.70	1.53	0.20	0.81	1.68
N/A	N/A	N/A	0.17	0.01
0.57	0.84	0.01	0.16	0.01
0.00	0.02	0.00	0.00	0.00
N/A	N/A	N/A	0.00	0.00
0.00	0.02	0.00	0.00	0.00
0.00	0.02	0.00	0.00	0.00
8.07	8.49	6.73	8.12	8.83
0.23	0.24	0.23	0.22	0.22
N/A	N/A	N/A	2.06	4.57
2.59	4.79	1.32	2.40	4.57
0.59	2.65	0.59	1.20	3.53
N/A	N/A	N/A	0.35	0.09
1.19	1.97	0.09	0.61	0.09
0.02	0.33	0.00	0.00	0.05
N/A	N/A	N/A	0.00	0.03
0.00	0.00	0.00	0.00	0.03
0.00	0.00	0.00	0.00	0.03
8.60	9.69	7.32	8.98	10.73
0.24	0.24	0.23	0.22	0.21

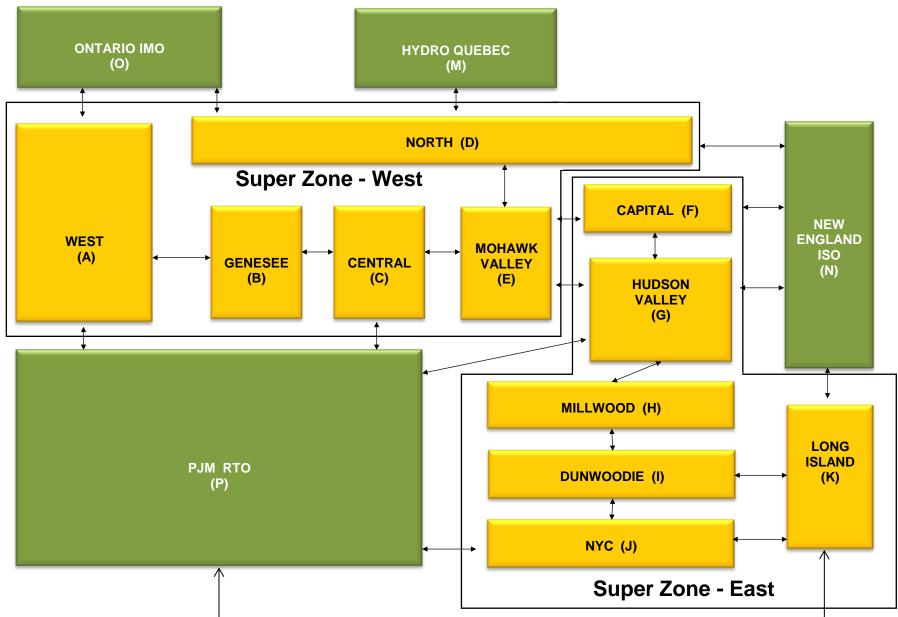






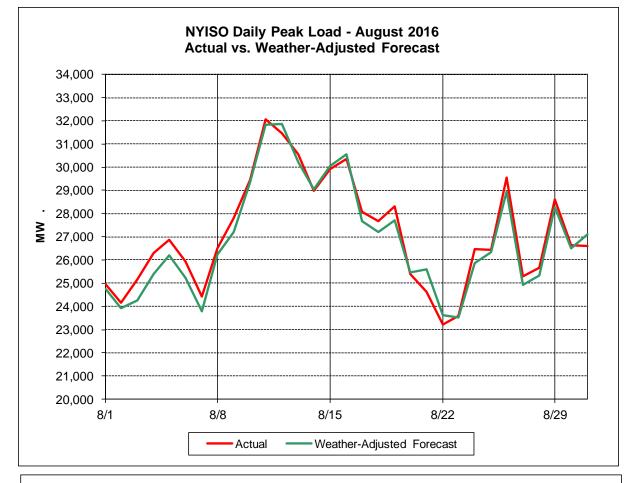


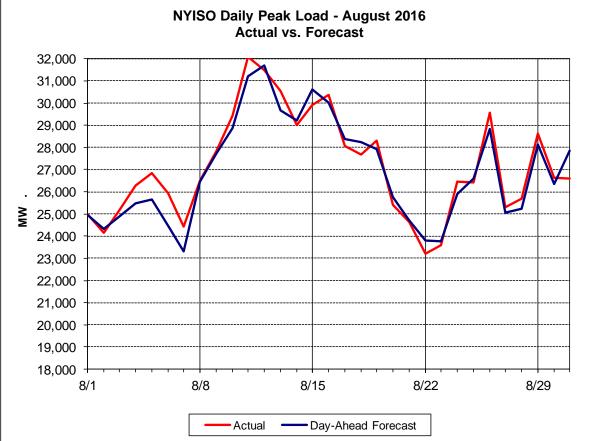
# NYISO LBMP ZONES

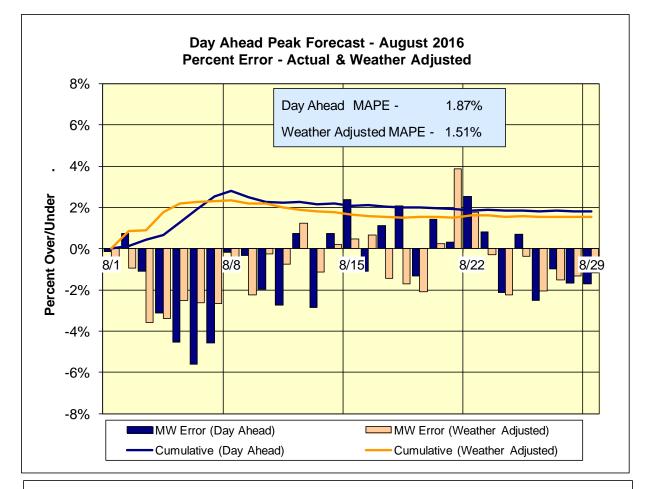


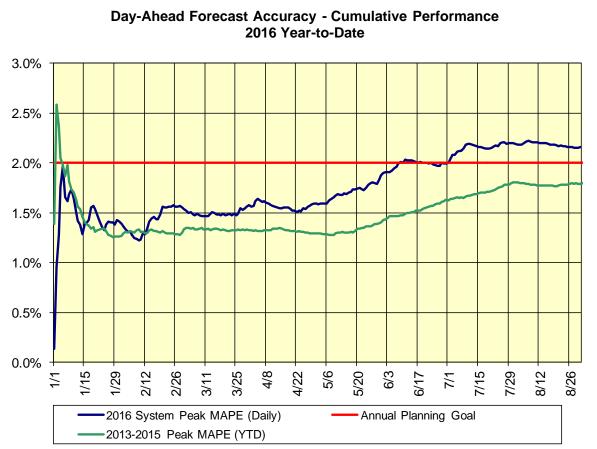
#### Billing Codes for Chart C

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









#### Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – August 2016

Filing Date	Filing Summary	Docket	Order Date	Order Summary
06/20/2016	NYISO filing re: proposed tariff revisions concerning NYISO's cost allocation methodology for its reliability planning process	ER16-1968-000	08/12/2016	FERC letter order accepted the revisions effective 08/19/2016 , as requested
07/12/2016	NYISO and NYPA joint filing re: executed Large Generator Interconnection Agreement (SA 2276) among NYISO, NYPA and Jericho Rise Wind Farm	ER16-2183-000	08/17/2016	FERC letter order accepted the agreement effective 06/29/2016, as requested
08/01/2016	NYISO filing re: Major Emergency Report notifying FERC that an Emergency State existed in the NYCA on 07/30/2016	EY16-6-000		
08/08/2016	NYISO filing re: comments in response to the 06/22/2016 State Register NOPR in Consideration of NYISO's Western New York Proposed Public Policy Transmission Need Viability and Sufficiency Assessment	PSC Case No. 14-E-0454		
08/09/2016	NYISO 205 filing re: recovery of shortfalls in annual operating costs	ER16-2396-000		
08/11/2016	NYISO confidential filing to the NYPSC re: Quarterly Reliability Project Tracking Report (April 2016) that charts the current development status of proposed generation and transmission projects	PSC Matter No. 10-02007		
08/11/2016	NYISO confidential filing to the NYPSC re: Quarterly Reliability Project Tracking Report (July 2016) that charts the current development status of proposed generation and transmission projects	PSC Matter No. 10-02007		
08/12/2016	NYISO confidential filing to the NYPSC re: Reliability Commitment Data for the three-month period ending 07/31/2016	PSC Matter No. 10-02007		
08/19/2016	NYISO compliance filing re: establish procedures for allocating revenues received from the sale of Historic Fixed Price Transmission Congestion Contracts	ER16-2444-000		
08/25/2016	NYISO filing re: FERC Form 3-Q Quarterly Financial Report of electric utilities, licensees, and natural gas companies for 2016/Q2	No Docket No.		
08/30/2016	NYISO confidential filing to the NYPSC re: nuclear generator data	PSC Matter No. 10-02007		

NYISO filing to the NYPSC re: response to data request concerning the proposed AC transmission upgrade public policy requirements projects PSC Case No. 00-E-1380	
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