

# Monthly Report

February 2017

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## Operations Performance Metrics Monthly Report









### February 2017 Report

## Operations & Reliability Department New York Independent System Operator



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### **February 2017 Operations Performance Highlights**

- Peak load of 22,215 MW occurred on 02/09/2017 HB 18
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 2.2 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- NYISO and PJM mutually agreed to deactivate 5 M2M Re-dispatch flow gates on 02/08/2017. The deactivations are reflected on the Coordinated Flowgates and Entitlements web posting.
- Implementation of Hybrid GT Pricing Improvements on 02/28/2017 that will allow GTs to be eligible to set price in more instances by discontinuing the practice of block-loading GTs in the pricing pass when those units are within their minimum run time and uneconomic.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

	<b>Current Month</b>	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.85	\$2.54
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.02	\$0.03
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.16)	(\$0.42)
Total NY Savings	\$0.71	\$2.15
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.07	\$0.20
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.07	\$0.15
Total Regional Savings	\$0.14	\$0.35

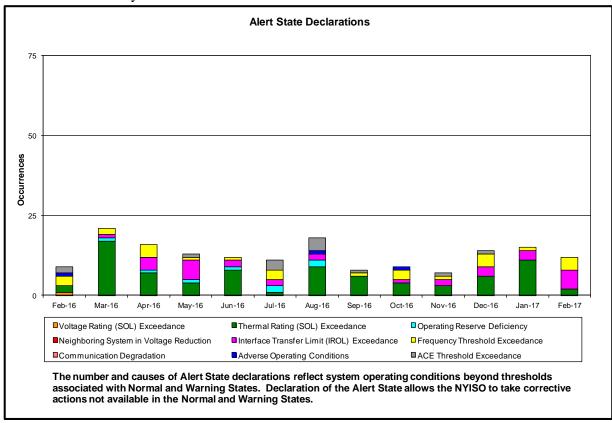
- Statewide uplift cost monthly average was (\$0.67)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and price delta

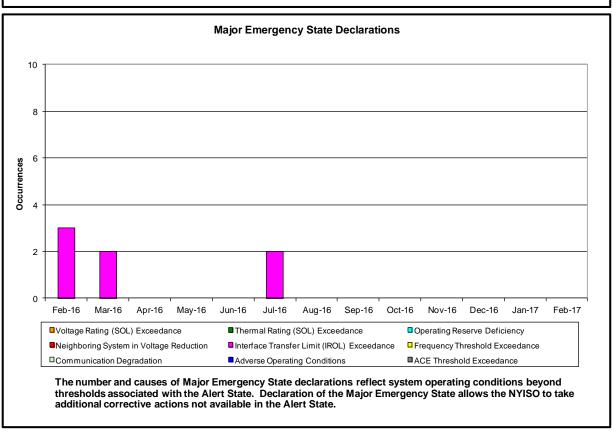
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
March 2017 Spot Price	\$0.71	\$3.30	\$3.30	\$0.71
February 2017 Spot Price	\$0.54	\$3.47	\$3.47	\$0.54
Delta	\$0.17	(\$0.17)	(\$0.17)	\$0.17

- NYCA Price converged with the LI Price
- LHV Price converged with the NYC Price

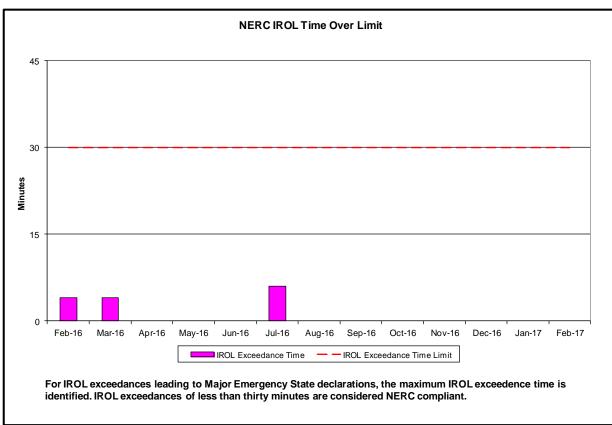


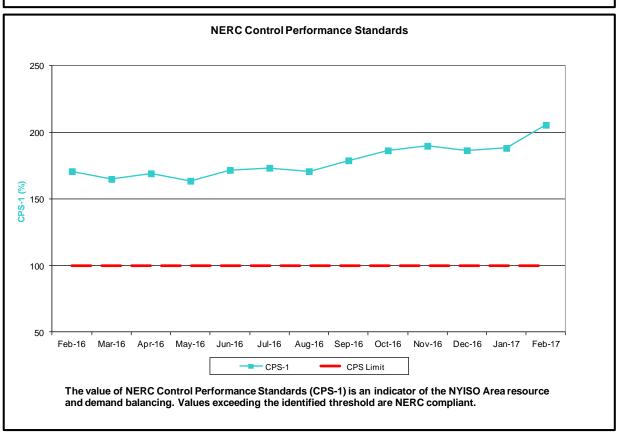
#### • Reliability Performance Metrics



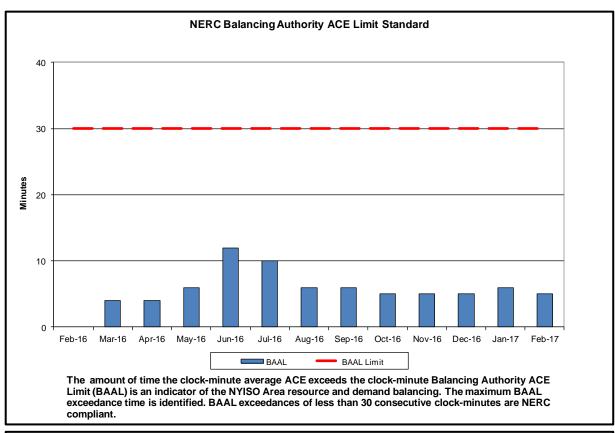


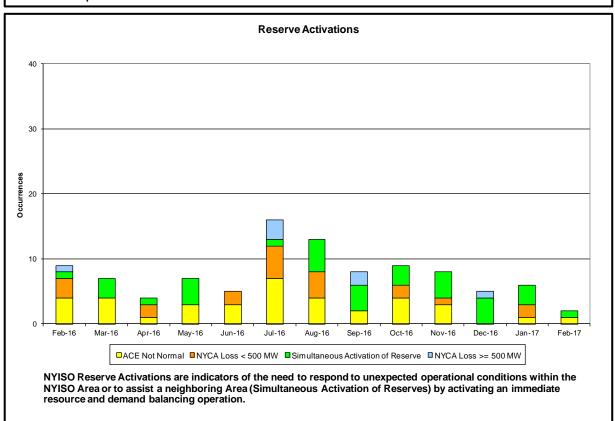




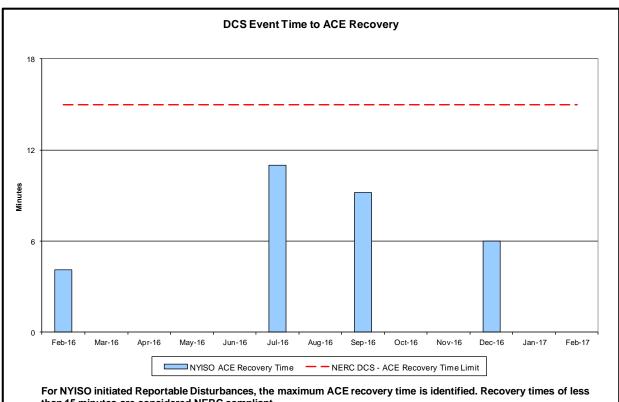


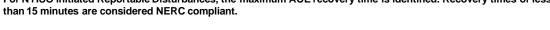


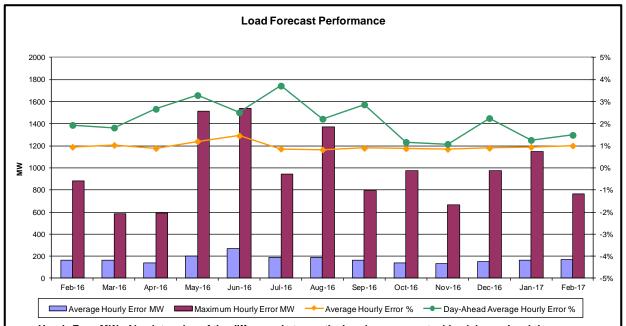










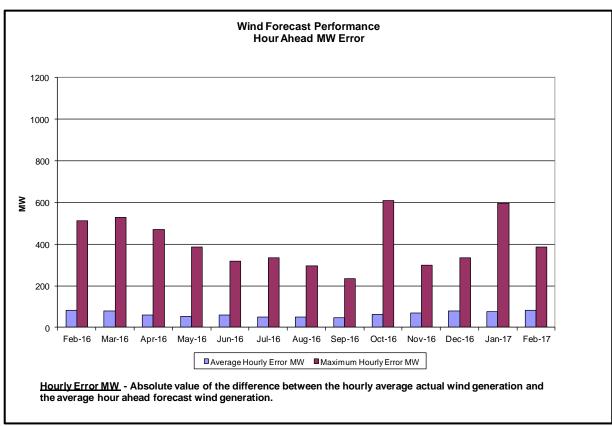


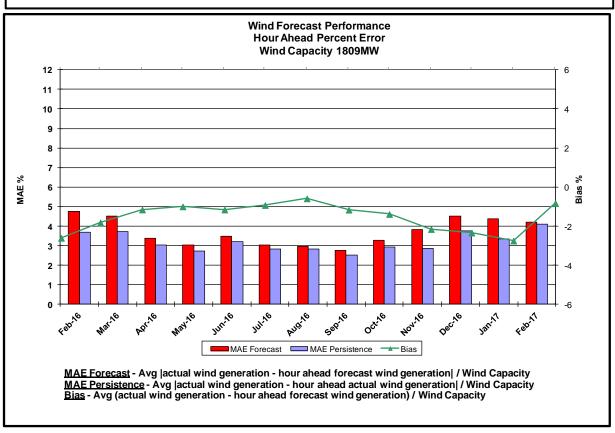
<u>Hourly Error MW</u> - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

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

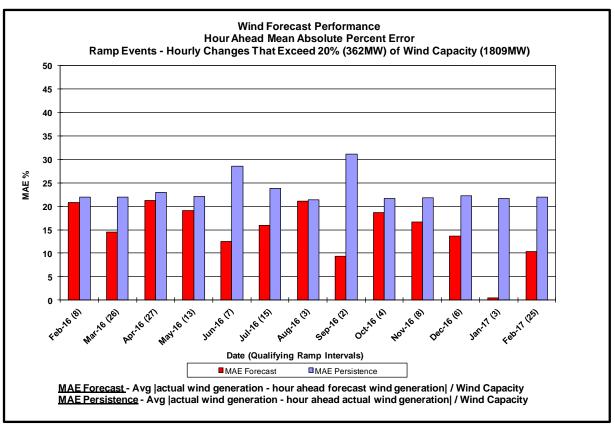
<u>Day-Ahead Average Hourly Error %</u> - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

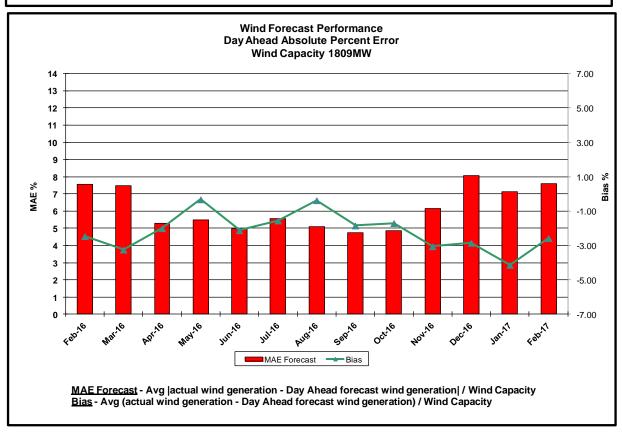




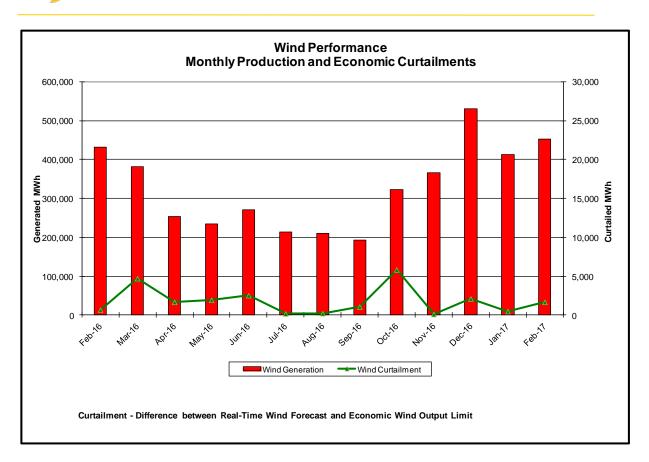




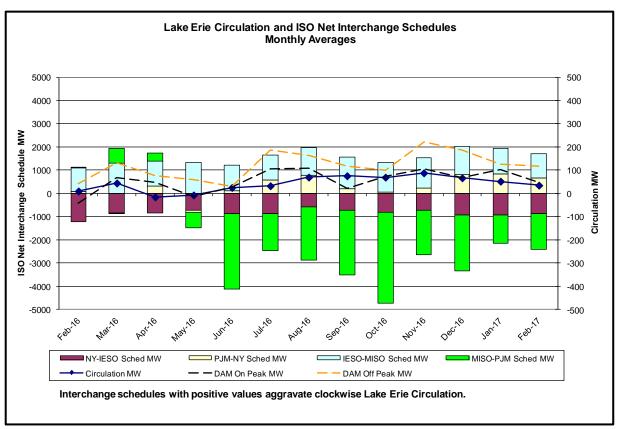


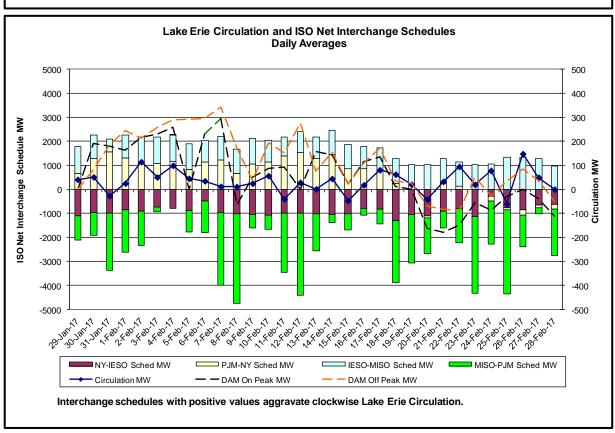






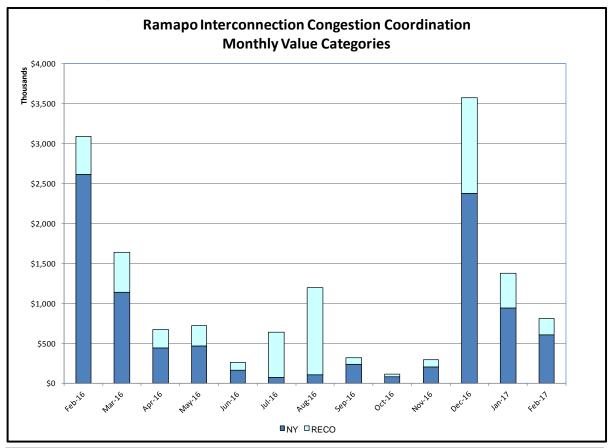


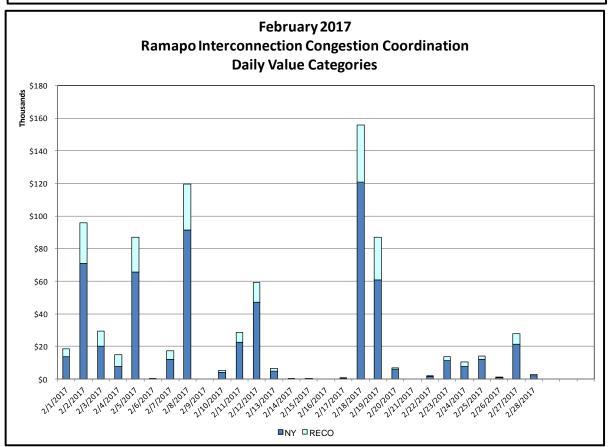






#### **Broader Regional Market Performance Metrics**







RECO

#### Ramapo Interconnection Congestion Coordination

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

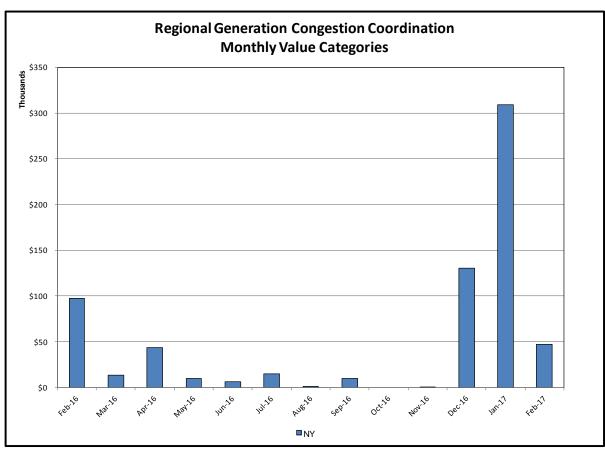
Represents the value NY realizes from Market-to-Market Ramapo Coordination. When experiencing congestion, this includes (1) the estimated savings to NY for additional deliveries into NY, plus (2) PJM compensation to NY for additional deliveries into PJM (as compared to the Ramapo Target level, excluding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

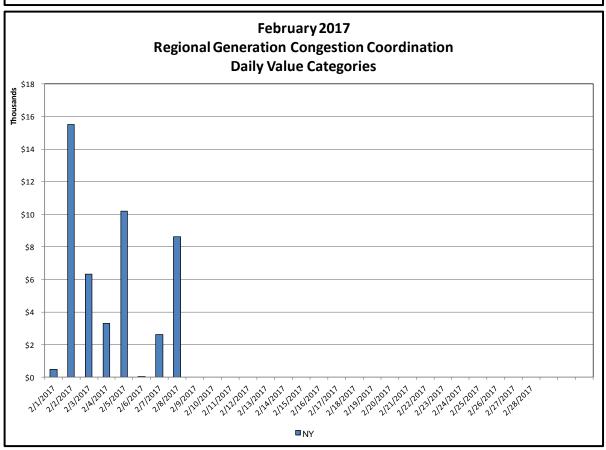
PJM when they are congested.

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.









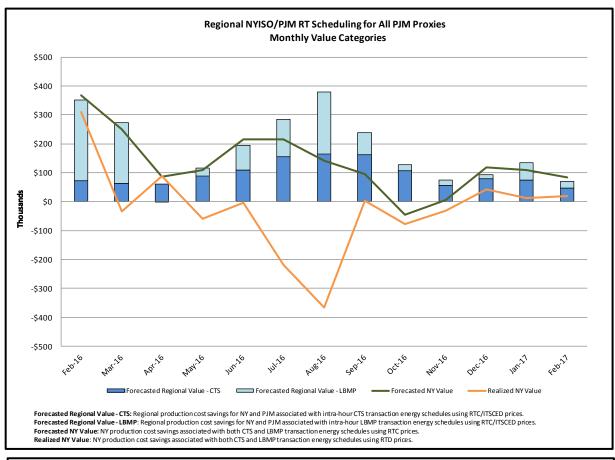
#### **Regional Generation Congestion Coordination**

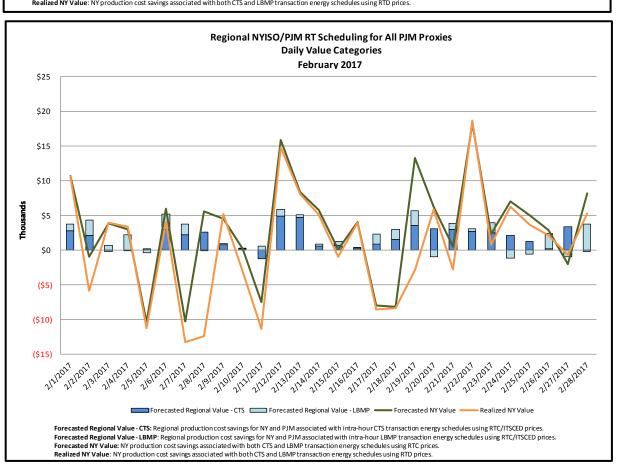
<u>Category</u> NY

#### <u>Description</u>

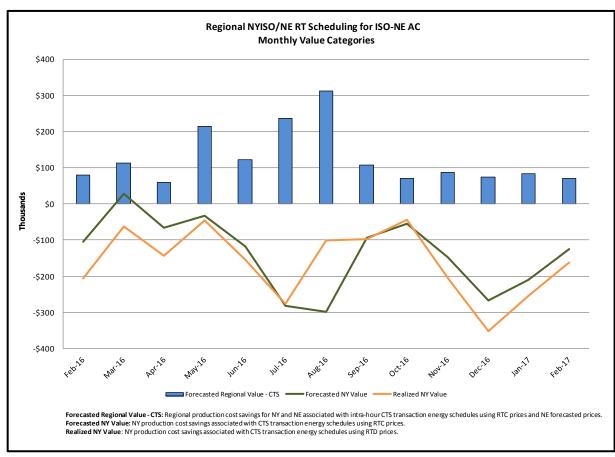
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization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

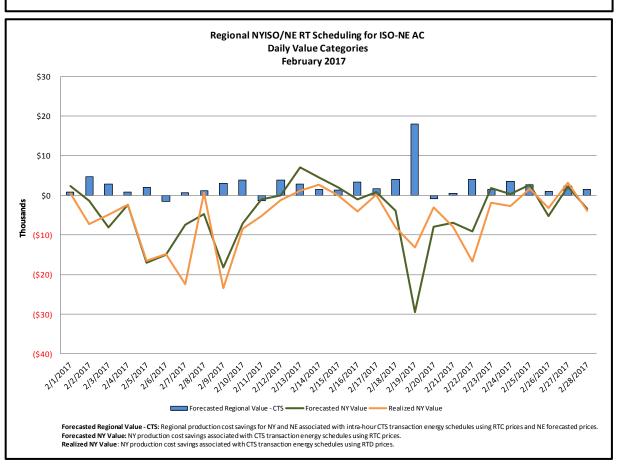






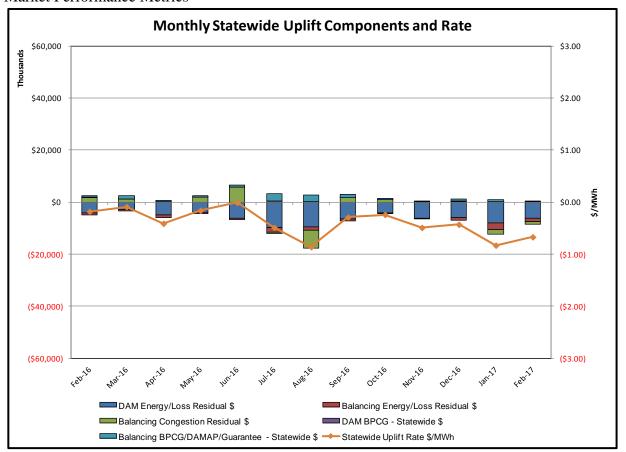




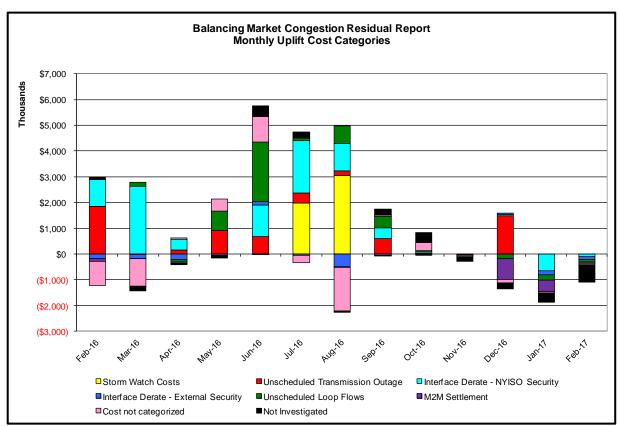


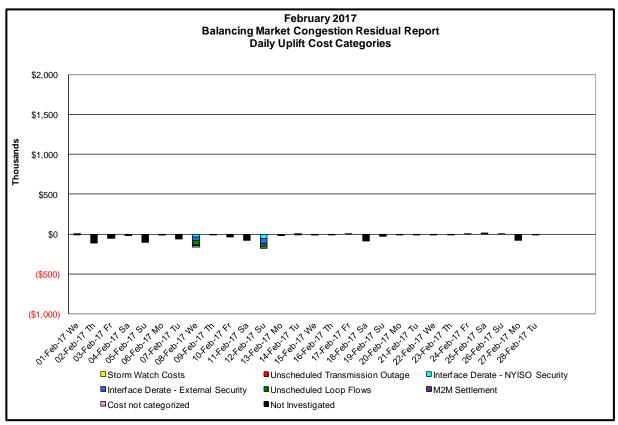


#### Market Performance Metrics







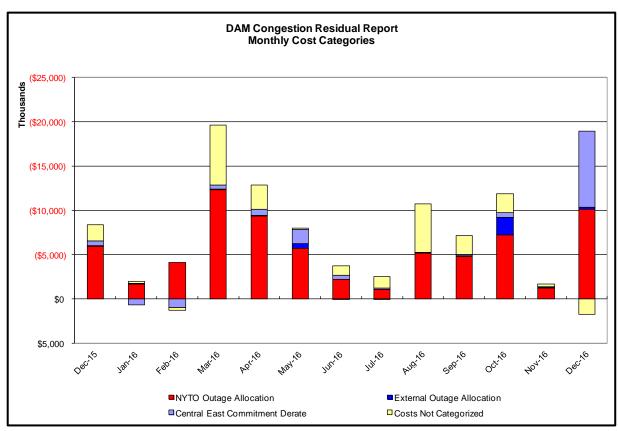


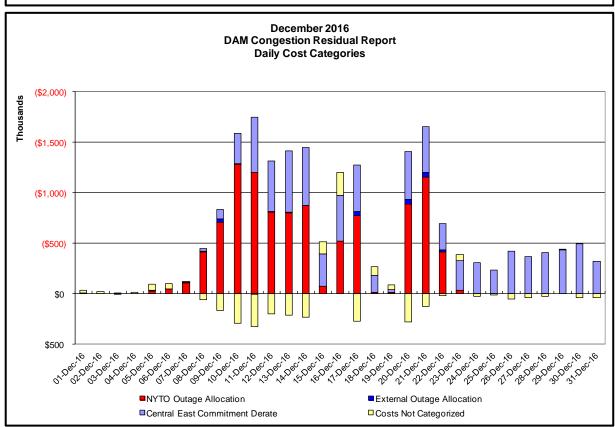


Day's	investigated in Februa	ry:8,12	
Event	Date (yyyymmdd)	Hours	Description
	2/8/2017	2-4,6,7	Uprate Central East
	2/8/2017	1	NYCA DNI Ramp Limit
	2/8/2017	0-2	NE_AC DNI Ramp Limit
	2/8/2017	6,7,9	NE_AC - NY Scheduling Limit
	2/8/2017	0-4,6,7,9	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	2/12/2017	3,4,10-12,15-19	Uprate Central East
	2/12/2017	1-4,11,12,15-19	NE_AC - NY Scheduling Limit
	2/12/2017	11,12,15,16	PJM_AC-NY Scheduling Limit
	2/12/2017	3,4,11,15-19	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East

<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	<u>Event Examples</u> TSA Activations
Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages
Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
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
Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates	
n Report Assumpti	ons/Notes	
	Market-wide  Market-wide  Market-wide  Market-wide	Market-wide Reduction in DAM to RTM transfers related to unscheduled transmission outage  Market-wide Reduction in DAM to RTM transfers not related to transmission outage  Market-wide Reduction in DAM to RTM transfers related to External Control Area Security Events  Market-wide Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints  Market-wide Settlement result inclusive of coordinated redispatch and



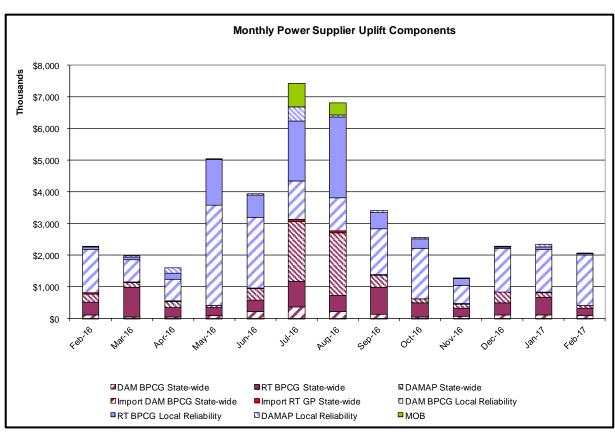


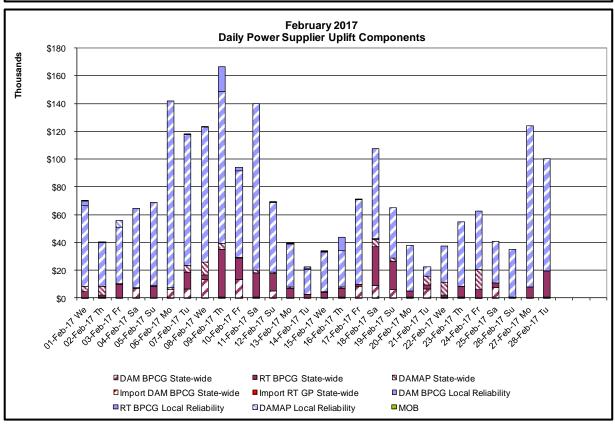




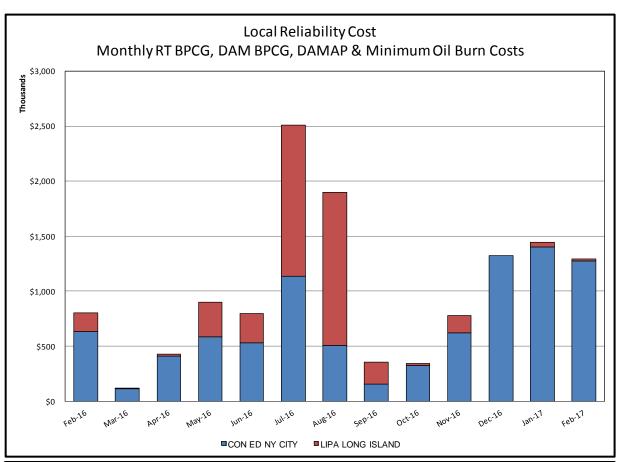
Day-Ahead Market Congestion Residual Categories									
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	Events Types Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples  DAM scheduled outage for equipment modeled inservice for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

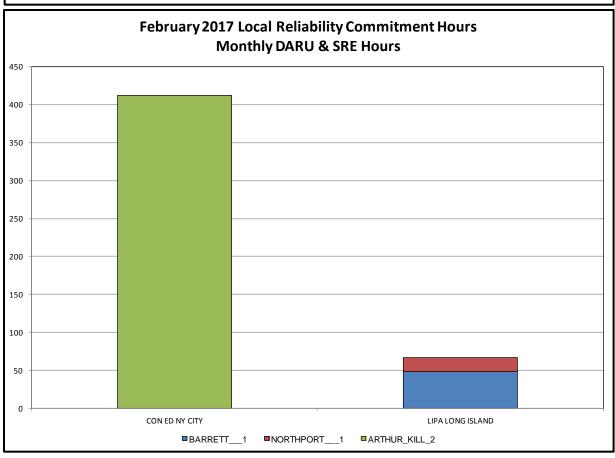




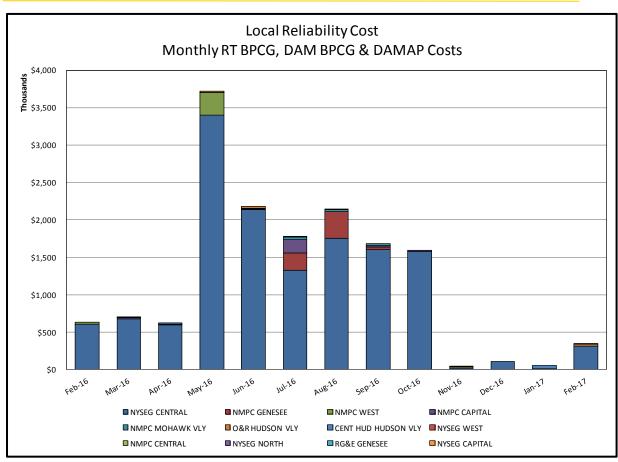


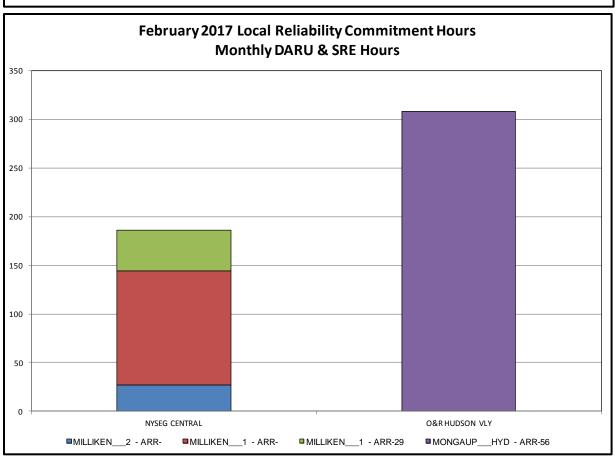




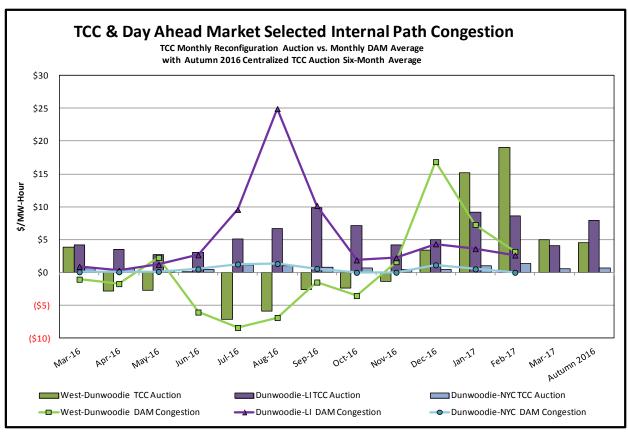


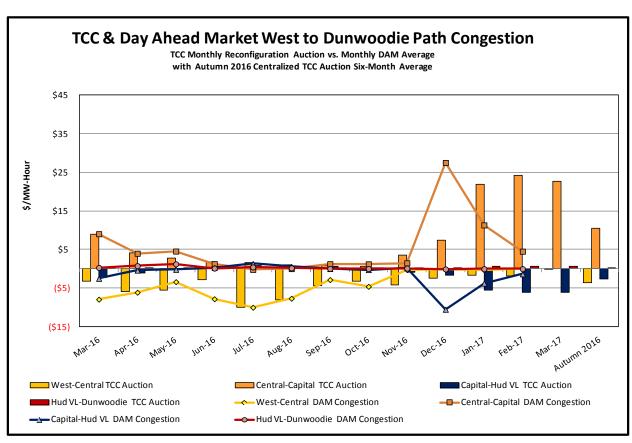




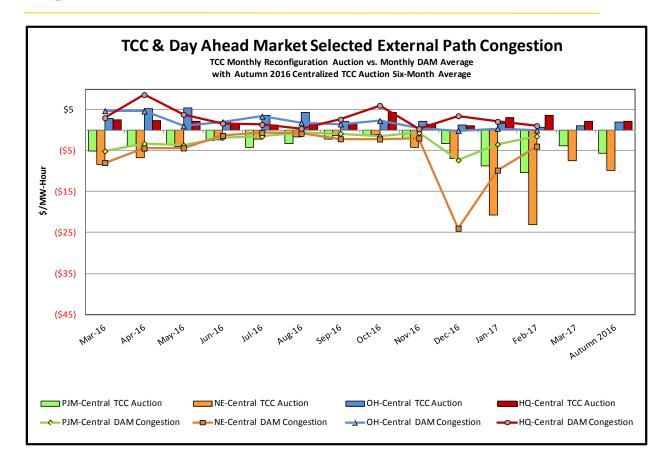




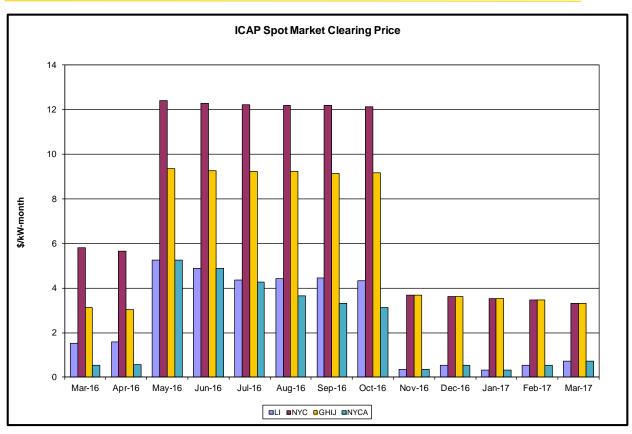


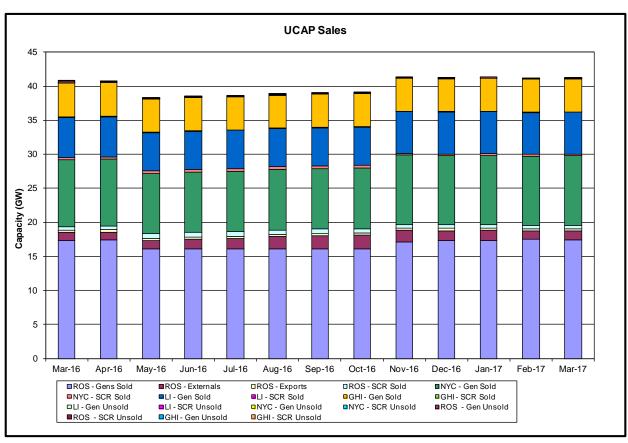








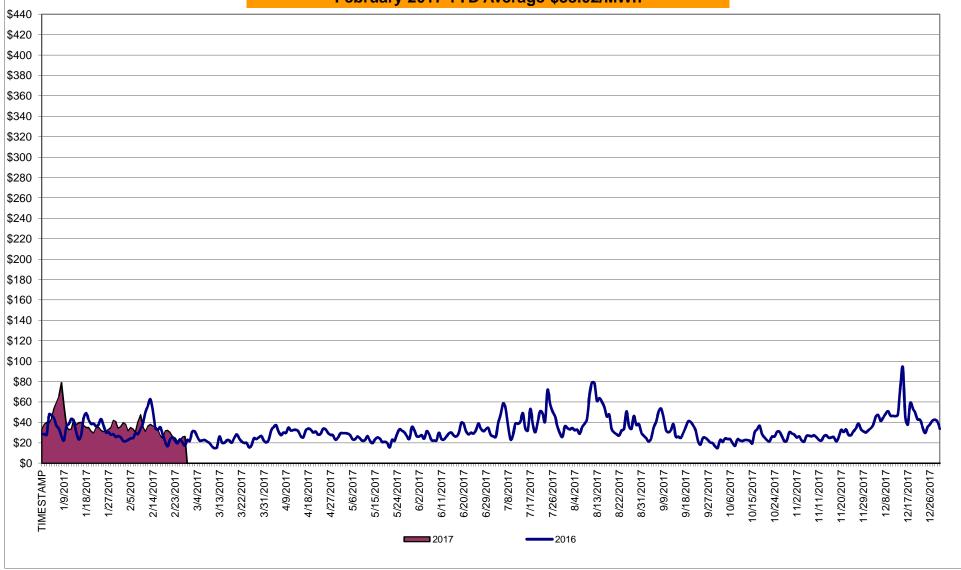




## Market Performance Highlights for February 2017

- LBMP for February is \$30.95/MWh; lower than \$40.07/MWh in January 2017 and higher than \$28.71/MWh in February 2016.
  - Day Ahead and Real Time Load Weighted LBMPs are lower compared to January.
- February 2017 average year-to-date monthly cost of \$38.02/MWh is a 12% increase from \$34.02/MWh in February 2016.
- Average daily sendout is 418 GWh/day in February; lower than 431 GWh/day in January 2017 and 436 GWh/day in February 2016.
- Natural gas prices were lower and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.83/MMBtu, down from \$3.82/MMBtu in January.
  - Natural gas prices are down 6.1% year-over-year.
  - Jet Kerosene Gulf Coast was \$11.48/MMBtu, up from \$11.24/MMBtu in January.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$11.63/MMBtu, up from \$11.61/MMBtu in January.
  - Distillate prices are up 57.9% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.54)/MWh; higher than (\$0.73)/MWh in January.
    - Local Reliability Share is \$0.13/MWh, higher than \$0.10/MWh in January.
    - Statewide Share is (\$0.67)/MWh, higher than (\$0.83)/MWh in January.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than January.

## Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\* 2016 Annual Average \$34.28/MWh February 2016 YTD Average \$34.02/MWh February 2017 YTD Average \$38.02/MWh

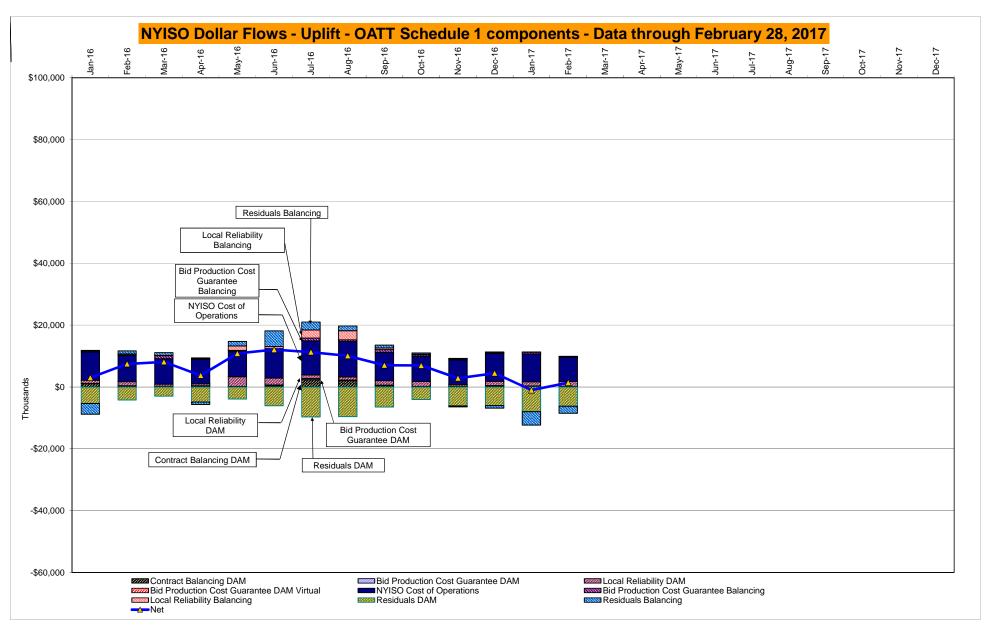


<sup>\*</sup> Excludes ICAP payments.

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

2017	January	<u>February</u>	March	April	May	June	<u>July</u>	August	September	October	November	December
LBMP	40.07	30.95		<del></del>	<del></del>							
NTAC	0.66	1.11										
Reserve	0.70	0.67										
Regulation	0.14	0.12										
NYISO Cost of Operations	0.65	0.65										
FERC Fee Recovery	0.09	0.10										
Uplift	(0.73)	(0.54)										
Uplift: Local Reliability Share	0.10	0.13										
Uplift: Statewide Share	(0.83)	(0.67)										
Voltage Support and Black Start	0.37	0.37										
Avg Monthly Cost	41.96	33.44										
Avg YTD Cost	41.96	38.02										
TSA \$ per NYC MWh	0.00	0.00										
2016	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
LBMP	34.29	28.71	20.66	27.96	23.31	27.35	40.01	42.99	30.89	22.33	26.31	43.90
NTAC	0.59	0.78	0.62	1.14	1.10	0.93	0.78	0.54	0.55	0.86	0.79	0.97
Reserve	0.77	0.73	0.73	0.87	0.71	0.59	0.67	0.68	0.69	0.77	0.68	0.63
Regulation	0.12	0.12	0.12	0.12	0.11	0.12	0.10	0.10	0.10	0.15	0.13	0.17
NYISO Cost of Operations	0.64	0.65	0.65	0.64	0.65	0.66	0.65	0.65	0.64	0.64	0.64	0.64
FERC Fee Recovery	0.09	0.10	0.11	0.10	0.09	0.09	0.07	0.06	0.08	0.10	0.10	0.08
Uplift	(0.43)	(0.07)	(0.03)	(0.34)	0.19	0.20	(0.26)	(0.63)	(0.15)	(0.09)	(0.42)	(0.33)
Uplift: Local Reliability Share	0.09	0.11	0.06	0.07	0.35	0.21	0.23	0.22	0.14	0.15	0.07	0.10
Uplift: Statewide Share	(0.52)	(0.18)	(0.09)	(0.41)	(0.16)	(0.01)	(0.49)	(0.86)	(0.29)	(0.24)	(0.49)	(0.43)
Voltage Support and Black Start	0.35	0.36	0.36	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35
Avg Monthly Cost	36.42	31.37	23.23	30.84	26.52	30.29	42.40	44.75	33.16	25.12	28.61	46.42
Avg YTD Cost	36.42	34.02	30.68	30.71	29.85	29.93	32.32	34.43	34.31	33.54	33.16	34.28
TSA \$ per NYC MWh	0.00	0.00	0.05	0.00	0.00	0.02	0.84	1.64	0.00	0.00	0.00	0.00
2015	January	February	March	April	May	June	<u>July</u>	August	September	October	November	December
LBMP	59.61	114.37	52.09	28.36	32.98	28.20	34.77	33.09	34.40	30.05	24.83	20.91
NTAC	0.32	0.35	0.41	0.64	0.56	0.80	0.54	0.60	0.63	0.53	0.68	1.05
Reserve	0.27	0.37	0.56	0.36	0.38	0.24	0.27	0.20	0.28	0.28	0.47	0.60
Regulation	0.10	0.18	0.11	0.12	0.10	0.13	0.12	0.12	0.10	0.12	0.13	0.13
NYISO Cost of Operations	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.69	0.70	0.69
Uplift	(0.48)	(1.08)	(0.68)	(0.15)	0.26	0.33	0.04	0.03	(0.15)	0.10	0.44	(0.07)
Uplift: Local Reliability Share	0.25	0.33	0.13 <sup>°</sup>	0.27	0.30	0.37	0.35	0.36	0.22	0.33	0.20	0.12
Uplift: Statewide Share	(0.73)	(1.41)	(0.81)	(0.42)	(0.05)	(0.04)	(0.30)	(0.33)	(0.37)	(0.23)	0.25	(0.18)
Voltage Support and Black Start	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38
Avg Monthly Cost	60.91	115.27	53.58	30.41	35.37	30.79	36.84	35.14	36.35	32.18	27.64	23.71
,												
Avg YTD Cost	60.91	87.74	76.64	66.82	60.96	56.02	52.77	50.20	48.59	47.17	45.66	44.10
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.17	0.50	0.07	0.06	0.01	0.00	0.00	0.00

<sup>\*</sup> Excludes ICAP payments. Market Mitigation and Analysis Prepared: 3/9/2017 11:14 AM



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

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

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

#### **NYISO Markets Transactions**

<u>2017</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
Day Ahead Market MWh	14,135,019	12,565,206										
DAM LSE Internal LBMP Energy Sales	57%	57%										
DAM External TC LBMP Energy Sales	2%	2%										
DAM Bilateral - Internal Bilaterals	32%	32%										
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%										
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%										
DAM Bilateral - Wheel Through Bilaterals	2%	2%										
Balancing Energy Market MWh	-256,448	-407,284										
Balancing Energy LSE Internal LBMP Energy Sales	-157%	-132%										
Balancing Energy External TC LBMP Energy Sales	64%	39%										
Balancing Energy Bilateral - Internal Bilaterals	15%	8%										
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	4%										
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	10%	7%										
Balancing Energy Bilateral - Wheel Through Bilaterals	-32%	-26%										
Transactions Summary												
LBMP	58%	57%										
Internal Bilaterals	33%	34%										
Import Bilaterals	5%	5%										
Export Bilaterals	2%	2%										
Wheels Through	2%	2%										
Market Share of Total Load												
Day Ahead Market	101.8%	103.3%										
Balancing Energy +	-1.8%	-3.3%										
Total MWH	13,878,571	12.157.922										
Average Daily Energy Sendout/Month GWh	431	418										
												-
2016	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
2016 Day Ahead Market MWh	<u>January</u> 14,760,915	<u>February</u> 13,614,754	March 13,413,781	<u>April</u> 12,496,141	<u>May</u> 12,959,886	<u>June</u> 14,095,904	<u>July</u> 16,950,819		<u>September</u> 14,563,318	October 13,014,354	November 12,770,775	<u>December</u> 14,245,185
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	14,563,318	13,014,354	12,770,775	14,245,185
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	14,760,915 54%	13,614,754 55%	13,413,781 55%	12,496,141 57%	12,959,886 58%	14,095,904 60%	16,950,819 64%	17,413,898 63%	14,563,318 60%	13,014,354 56%	12,770,775 56%	14,245,185 58%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales	14,760,915 54% 4%	13,614,754 55% 2%	13,413,781 55% 1%	12,496,141 57% 5%	12,959,886 58% 2%	14,095,904 60% 1%	16,950,819 64% 1%	17,413,898 63% 3%	14,563,318 60% 3%	13,014,354 56% 2%	12,770,775 56% 2%	14,245,185 58% 3%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	14,760,915 54% 4% 34%	13,614,754 55% 2% 34%	13,413,781 55% 1% 35%	12,496,141 57% 5% 28%	12,959,886 58% 2% 31%	14,095,904 60% 1% 30%	16,950,819 64% 1% 28%	17,413,898 63% 3% 27%	14,563,318 60% 3% 30%	13,014,354 56% 2% 33%	12,770,775 56% 2% 32%	14,245,185 58% 3% 31%
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	14,760,915 54% 4% 34% 5%	13,614,754 55% 2% 34% 5%	13,413,781 55% 1% 35% 5%	12,496,141 57% 5% 28% 6%	12,959,886 58% 2% 31% 5%	14,095,904 60% 1% 30% 5%	16,950,819 64% 1% 28% 4%	17,413,898 63% 3% 27% 4%	14,563,318 60% 3% 30% 5%	13,014,354 56% 2% 33% 5%	12,770,775 56% 2% 32% 5%	14,245,185 58% 3% 31% 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	14,760,915 54% 4% 34% 5% 2% 2%	13,614,754 55% 2% 34% 5% 1% 2%	13,413,781 55% 1% 35% 5% 2% 2%	12,496,141 57% 5% 28% 6% 2% 2%	12,959,886 58% 2% 31% 5% 2% 2%	14,095,904 60% 1% 30% 5% 2% 2%	16,950,819 64% 1% 28% 4% 1% 2%	17,413,898 63% 3% 27% 4% 1% 2%	14,563,318 60% 3% 30% 5% 1% 2%	13,014,354 56% 2% 33% 5% 2% 2%	12,770,775 56% 2% 32% 5% 2% 3%	14,245,185 58% 3% 31% 5% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh	14,760,915 54% 4% 34% 5% 2% 2% -522,919	13,614,754 55% 2% 34% 5% 1% 2%	13,413,781 55% 1% 35% 5% 2% 2% -741,701	12,496,141 57% 5% 28% 6% 2% 2% -303,313	12,959,886 58% 2% 31% 5% 2% 2% -180,848	14,095,904 60% 1% 30% 5% 2% 2% -143,015	16,950,819 64% 1% 28% 4% 1% 2%	17,413,898 63% 3% 27% 4% 1% 2% 224,316	14,563,318 60% 3% 30% 5% 1% 2%	13,014,354 56% 2% 33% 5% 2% 2% -477,109	12,770,775 56% 2% 32% 5% 2% 3% -394,575	14,245,185 58% 3% 31% 5% 2% 2% -127,836
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147%	14,095,904 60% 1% 30% 5% 2% 2% -143,015 -203%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55%	14,095,904 60% 1% 30% 5% 2% 2% -143,015 -203% 77%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204%	17,413,898 63% 3% 27% 4% 1% 226 224,316 42% 56%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62%	17,413,898 63% 3% 27% 4% 1% 22% 224,316 42% 56% 28%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 12% 19% 0%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0%	12,496,141 57% 5% 28% 6% 2% -303,313 -76% -13% 8% 0%	12,959,886 58% 2% 31% 5% 2% -180,848 -147% 55% 27% 0%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 12% 0% 6%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% 3%	12,496,141 57% 5% 28% 6% 2% -303,313 -76% -13% 8% 0% 5%	12,959,886 58% 2% 31% 5% 2% -180,848 -147% 55% 27% 0% 7%	14,095,904 60% 1% 30% 5% 2% 2% -143,015 -203% 77% 47% 0% 10%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15%	17,413,898 63% 3% 27% 4% 1% 224,316 42% 56% 28% 0% 5%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6%	-127,836 -269% -138% -269% -127,836 -269% -40,40% -27%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 12% 19% 0%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0%	12,496,141 57% 5% 28% 6% 2% -303,313 -76% -13% 8% 0%	12,959,886 58% 2% 31% 5% 2% -180,848 -147% 55% 27% 0%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 0% 6% -12%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12%	13,413,781 55% 1% 35% 5% 2% 2% 2-741,701 -118% 19% 4% 0% 3% -8%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% -24%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% 7% -42%	14,095,904 60% 1% 30% 5% 2% 2-143,015 -203% 47% 0% 10% -32%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -31%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 6% 6% 0% 4% -21%	-394,575 -102% -38% -394,575 -102% -6% -40%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66%
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  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 0% 6% -12%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% 3% -8%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% -24%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% 7% -42%	14,095,904 60% 1% 30% 5% 2% 2-143,015 -203% 77% 47% 0% 10% -32%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -31%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 6% 6% 0% 4% -21%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66%
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  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 0% 6% -12%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% 3% -8%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 0% 7% -42% 59% 32%	14,095,904 60% 1% 30% 5% 2% 2-143,015 -203% 77% 47% 0% 10% -32%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% -31% 66% 27%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 6% 4% -21%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% -66% 60% 32%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals	14,760,915 54% 4% 34% 5% 2% 2-522,919 -125% 12% 0% 6% -12%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% -8% 54% 37% 6%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6%	12,959,886 58% 2% 31% 5% 2% 2-4 -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5%	14,095,904 60% 1% 30% 5% 2% 2-143,015 -203% 77% 47% 0% 10% -32%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -31%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 0% 5% -32%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 6% 0% 4% -21% 57% 35% 5%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 6% -522,919 56% 36% 55% 2%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% -8% 54% 37% 6% 2%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 66% 2%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% -42% 59% 32% 59% 32% 5% 2%	14,095,904 60% 1% 30% 5% 2% 2-143,015 -203% 77% 47% 0% 10% -32%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% -35% 28% 4% 1%	17,413,898 63% 3% 27% 4% 1% 224,316 42% 56% 28% 0% -31% 66% 27% 4% 1%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 6% 0% 4% -21% 57% 35% 5% 2%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32% 5% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  BAIANCING Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through	14,760,915 54% 4% 34% 5% 2% 2-522,919 -125% 12% 0% 6% -12%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% -8% 54% 37% 6%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6%	12,959,886 58% 2% 31% 5% 2% 2-4 -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5%	14,095,904 60% 1% 30% 5% 2% 2-143,015 -203% 77% 47% 0% 10% -32%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -31%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 0% 5% -32%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 6% 0% 4% -21% 57% 35% 5%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 19% 6% -12% 56% 36% 5% 2% 1%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 2% 1%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% -8% 54% 37% 6% 2% 1%	12,496,141 57% 5% 28% 6% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6% 2% 1%	12,959,886 58% 2% 31% 5% 2% -180,848 -147% 55% 27% 0% -42% 59% 32% 5% 2% 2%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 47% 0% 10% -32% 61% 31% 5% 2% 2%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1%	17,413,898 63% 3% 27% 4% 1% 224,316 42% 56% 28% 0% -31% 66% 27% 4% 1%	14,563,318 60% 3% 30% 5% 1% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 11% 2%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2%	14,245,185 58% 3% 31% 5% 2% -127,836 -269% 138% 65% 4% -27% -66% 60% 32% 5% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy Market MWh  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 19% 6% -12% 56% 36% 5% 2% 1%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2% 1%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2% 1%	12,496,141 57% 5% 28% 6% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6% 2% 1%	12,959,886 58% 2% 31% 5% 2% -180,848 -147% 55% 27% 0% -42% 59% 32% 59% 32% 2% 2%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 4% 1% 1%	17,413,898 63% 3% 27% 4% 1% 224,316 42% 56% 58% 0% 531% 66% 27% 4% 1%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32% 5% 2% 2% 100.9%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 19% 6% -12% 56% 36% 5% 2% 1%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 36% 2% 1% 104.5% -4.5%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2% 1% 105.9% -5.9%	12,496,141 57% 5% 28% 6% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6% 2% 1% 102.5% -2.5%	12,959,886 58% 2% 31% 5% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2% 2% 101.4% -1.4%	14,095,904 60% 1% 30% 5% 2% 2-443,015 -203% 77% 47% 0% 10% -32% 61% 31% 2% 2% 2%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 4% 1% 1%	17,413,898 63% 3% 27% 4% 1% 224,316 42% 56% 28% 0% -31% 66% 27% 4% 1% 1%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2% 103.2% -3.2%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32% 5% 2% 2% 100.9% -0.9%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy Market MWh  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 19% 6% -12% 56% 36% 5% 2% 1%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2% 1%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2% 1%	12,496,141 57% 5% 28% 6% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6% 2% 1%	12,959,886 58% 2% 31% 5% 2% -180,848 -147% 55% 27% 0% -42% 59% 32% 59% 32% 2% 2%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 4% 1% 1%	17,413,898 63% 3% 27% 4% 1% 224,316 42% 56% 58% 0% 531% 66% 27% 4% 1%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32% 5% 2% 2% 100.9%

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

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

Virtual Transactions are not reflected in this chart.

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

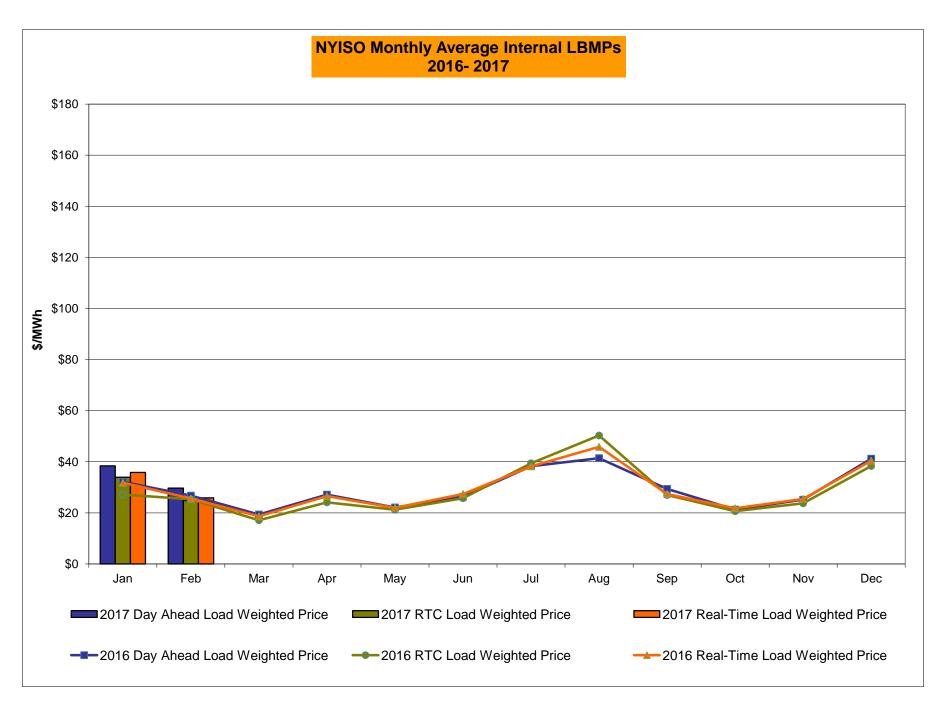
## NYISO Markets 2017 Energy Statistics

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August September	October November December
DAY AHEAD LBMP									
Price *	\$37.22	\$28.84							
Standard Deviation	\$13.20	\$7.97							
Load Weighted Price **	\$38.42	\$29.66							
RTC LBMP									
Price *	\$32.87	\$24.09							
Standard Deviation	\$14.57	\$9.52							
Load Weighted Price **	\$33.96	\$24.81							
REAL TIME LBMP									
Price *	\$34.61	\$25.14							
Standard Deviation	\$18.20	\$14.21							
Load Weighted Price **	\$35.80	\$25.84							
Average Daily Energy Sendout/Month GWh	431	418							

### **NYISO Markets 2016 Energy Statistics**

	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August S	September	October	November [	<u>December</u>
DAY AHEAD LBMP	004.04	<b>405.70</b>	<b>#</b> 40.00	<b>#</b> 00.00	004.07	<b>#</b> 04.00	005.04	<b>#</b> 00.05	<b>007.45</b>	<b>400.0</b>	<b>#</b> 04.05	<b>#</b> 00.00
Price *	\$31.01	\$25.76	\$18.63	\$26.39	\$21.07	\$24.83	\$35.24	\$38.25	\$27.15	\$20.37	\$24.35	\$39.83
Standard Deviation	\$10.86	\$12.46	\$6.99	\$6.95	\$7.04	\$9.21	\$18.37	\$20.59	\$13.55	\$7.48	\$7.32	\$15.08
Load Weighted Price **	\$32.13	\$26.75	\$19.37	\$27.14	\$22.12	\$26.30	\$38.29	\$41.41	\$29.38	\$21.29	\$25.15	\$41.22
RTC LBMP												
Price *	\$26.12	\$24.10	\$16.41	\$23.41	\$19.96	\$24.29	\$36.22	\$45.03	\$24.70	\$19.76	\$23.02	\$37.08
Standard Deviation	\$16.06	\$17.89	\$11.32	\$9.09	\$11.44	\$16.58	\$38.04	\$70.57	\$17.46	\$8.96	\$9.49	\$16.72
Load Weighted Price **	\$27.16	\$25.29	\$17.11	\$24.10	\$21.23	\$25.73	\$39.42	\$50.28	\$26.97	\$20.64	\$23.73	\$38.35
REAL TIME LBMP												
Price *	\$30.15	\$24.28	\$17.84	\$25.71	\$20.67	\$25.87	\$34.40	\$40.87	\$24.90	\$20.91	\$24.72	\$39.00
Standard Deviation	\$60.09	\$18.19	\$15.06	\$16.59	\$12.84	\$19.27	\$38.56	\$52.85	\$20.70	\$12.15	\$12.71	\$20.92
Load Weighted Price **	\$31.80	\$25.61	\$18.64	\$26.57	\$21.99	\$27.39	\$38.20	\$45.82	\$27.38	\$21.81	\$25.45	\$40.42
Average Daily Energy Sendout/Month GWh	439	436	397	385	397	456	532	548	458	391	398	433

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

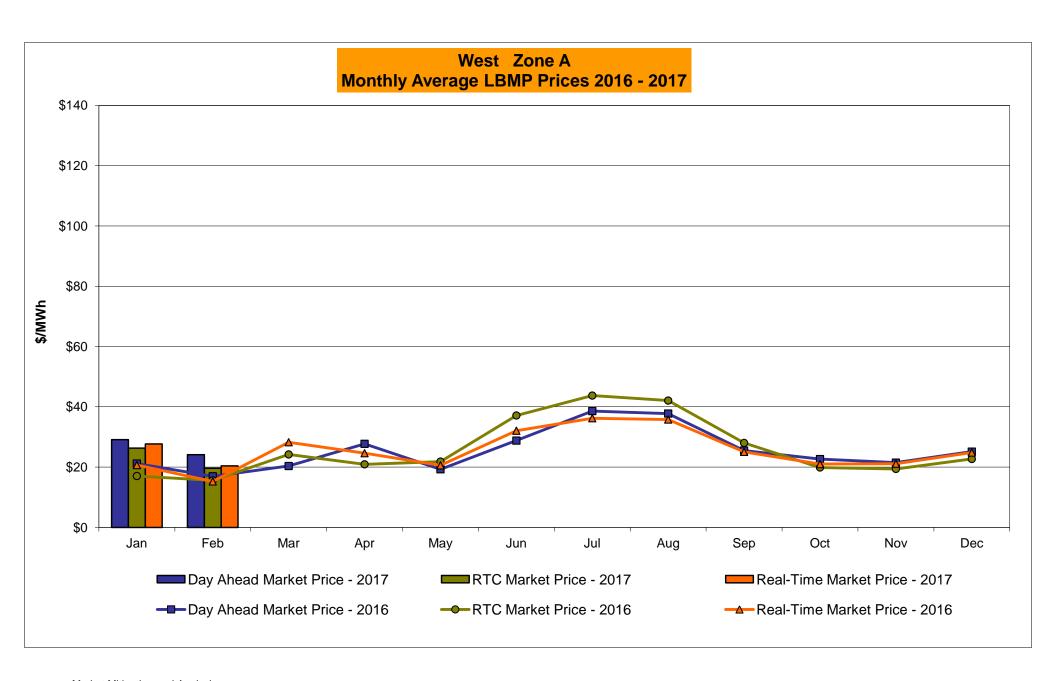


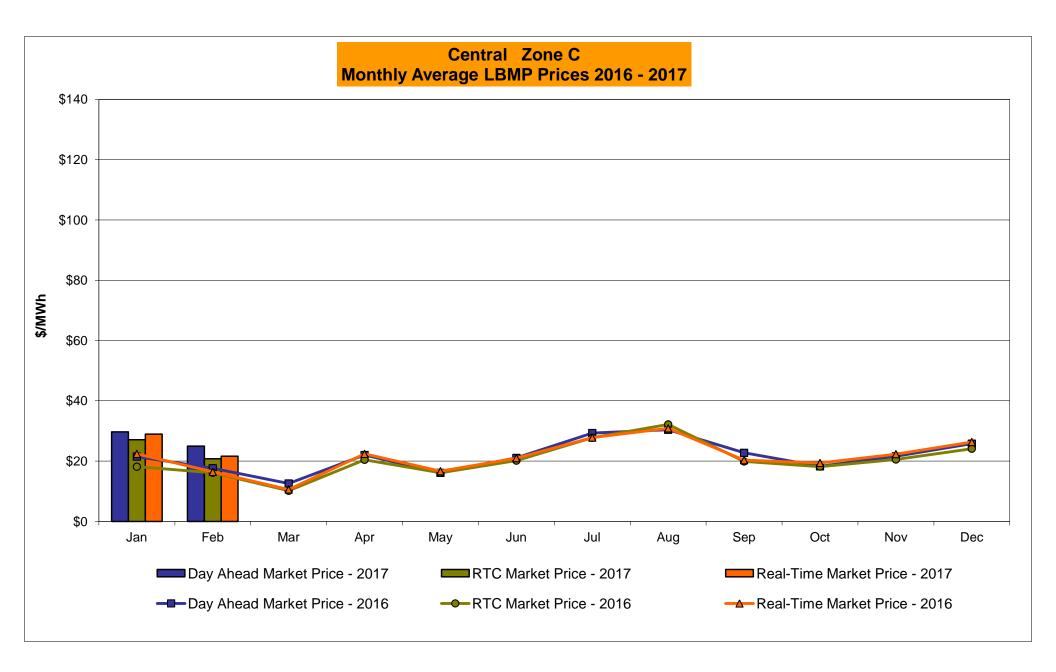
#### February 2017 Zonal LBMP Statistics for NYISO (\$/MWh)

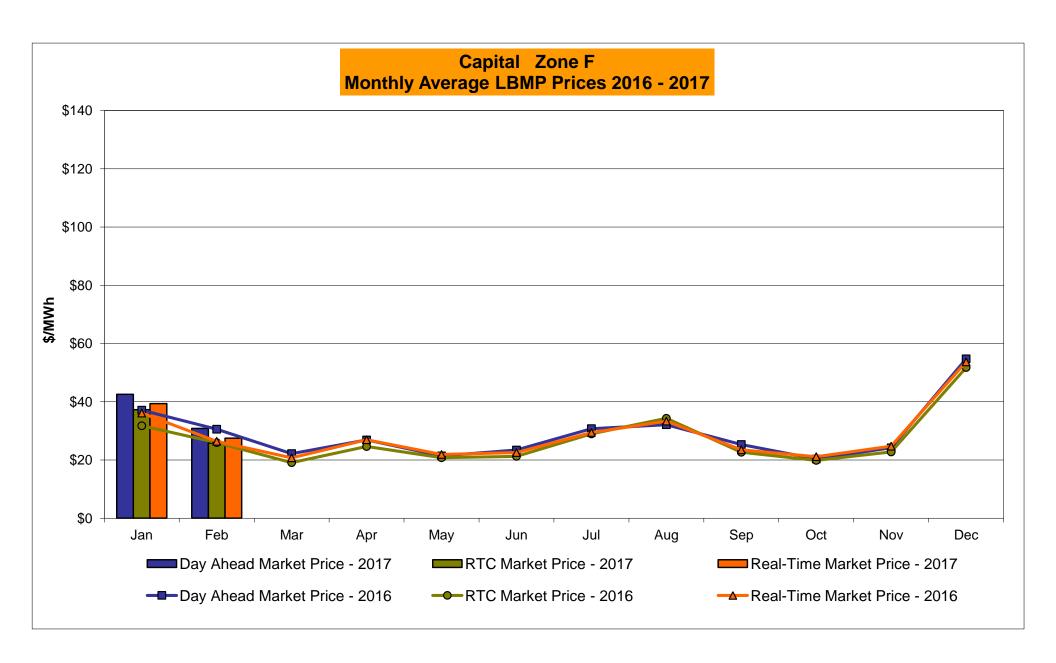
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	24.14	24.22	22.45	24.98	25.46	30.83	30.29	30.38	30.31	30.55	33.77
Standard Deviation	6.93	7.21	7.45	7.40	7.66	8.32	8.17	8.18	8.13	8.20	10.66
RTC LBMP											
Unweighted Price *	19.59	20.10	18.76	20.81	21.29	25.79	25.24	25.27	25.20	25.44	28.99
Standard Deviation	8.61	9.12	10.34	9.29	9.56	10.42	9.64	9.65	9.59	9.66	20.57
REAL TIME LBMP											
Unweighted Price *	20.42	20.91	19.29	21.64	22.13	27.50	26.71	26.75	26.69	26.92	29.26
Standard Deviation	12.33	12.93	14.16	13.20	13.52	18.27	15.87	15.92	15.82	15.88	19.10
		HVDDO	HVDDO			CDOCC					
	ONTADIO	HYDRO	HYDRO		NEW	CROSS	NODTUDODT				
	ONTARIO	QUEBEC	QUEBEC	P.IM	NEW ENGLAND	SOUND	NORTHPORT-	NEPTLINE	I INDEN VET	HUDSON	Dennison
	ONTARIO IESO	QUEBEC		РЈМ	NEW ENGLAND	SOUND CABLE	NORWALK	NEPTUNE Controllable	LINDEN VFT	HUDSON	Dennison Controllable
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND		NEPTUNE Controllable Line	LINDEN VFT Controllable Line	HUDSON Controllable Line	Dennison <u>Controllable</u> <u>Line</u>
DAY AHEAD LBMP	IESO	QUEBEC (Wheel) (	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	<u>Controllable</u>	Controllable
<b>DAY AHEAD LBMP</b> Unweighted Price *	IESO	QUEBEC (Wheel) (	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	Controllable Line 30.39	<u>Controllable</u>	Controllable
·	IESO Zone O	QUEBEC (Wheel) ( Zone M	QUEBEC (Import/Export) Zone M	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	<b>Zone O</b> 23.59	QUEBEC (Wheel) ( Zone M 22.75	QUEBEC (Import/Export)  Zone M  22.75	<b>Zone P</b> 26.70	ENGLAND  Zone N  30.45	SOUND CABLE Controllable Line	NORWALK Controllable Line 32.75	Controllable Line 31.93	Controllable Line 30.39	Controllable Line 30.45	Controllable Line 21.95
Unweighted Price * Standard Deviation	<b>Zone O</b> 23.59	QUEBEC (Wheel) (  Zone M  22.75 7.47	QUEBEC (Import/Export)  Zone M  22.75 7.47	Zone P  26.70 7.15	ENGLAND  Zone N  30.45	SOUND CABLE Controllable Line 33.02 10.43	NORWALK Controllable Line 32.75 10.17	27.59	25.17	Controllable Line 30.45 8.17	Controllable Line 21.95
Unweighted Price * Standard Deviation  RTC LBMP	Zone O 23.59 6.71	QUEBEC (Wheel) ( <u>Zone M</u> 22.75 7.47	QUEBEC (Import/Export)  Zone M  22.75 7.47	<b>Zone P</b> 26.70 7.15	<b>Zone N</b> 30.45 8.14	SOUND CABLE Controllable Line 33.02 10.43	NORWALK Controllable Line 32.75 10.17	Controllable Line 31.93 9.79	Controllable Line 30.39 8.12	Controllable Line 30.45 8.17	Controllable Line 21.95 7.21
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	23.59 6.71 19.32 8.45	QUEBEC (Wheel) (  Zone M  22.75 7.47  19.04 9.63	QUEBEC (Import/Export)  Zone M  22.75 7.47  19.04 9.63	Zone P  26.70 7.15  22.03 8.32	Zone N 30.45 8.14 26.91 13.80	SOUND CABLE Controllable Line 33.02 10.43 28.87 21.51	NORWALK Controllable Line 32.75 10.17 28.36 20.24	27.59 18.72	25.17 9.55	25.28 9.61	21.95 7.21 18.33 10.05
Unweighted Price * Standard Deviation  RTC LBMP  Unweighted Price * Standard Deviation	Zone O 23.59 6.71	QUEBEC (Wheel) (  Zone M  22.75 7.47	QUEBEC (Import/Export)  Zone M  22.75 7.47	Zone P  26.70 7.15	<b>Zone N</b> 30.45 8.14	SOUND CABLE Controllable Line 33.02 10.43	NORWALK Controllable Line 32.75 10.17	27.59	25.17	Controllable Line 30.45 8.17	Controllable Line 21.95 7.21

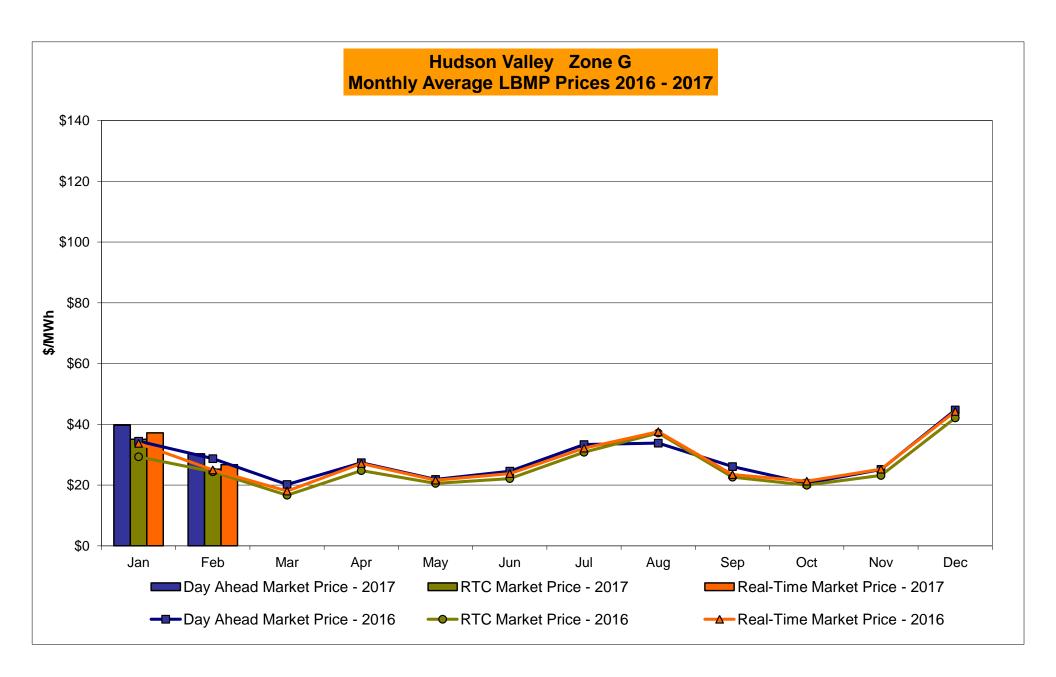
Market Mitigation and Analysis Prepared: 3/8/2017 10:14 AM

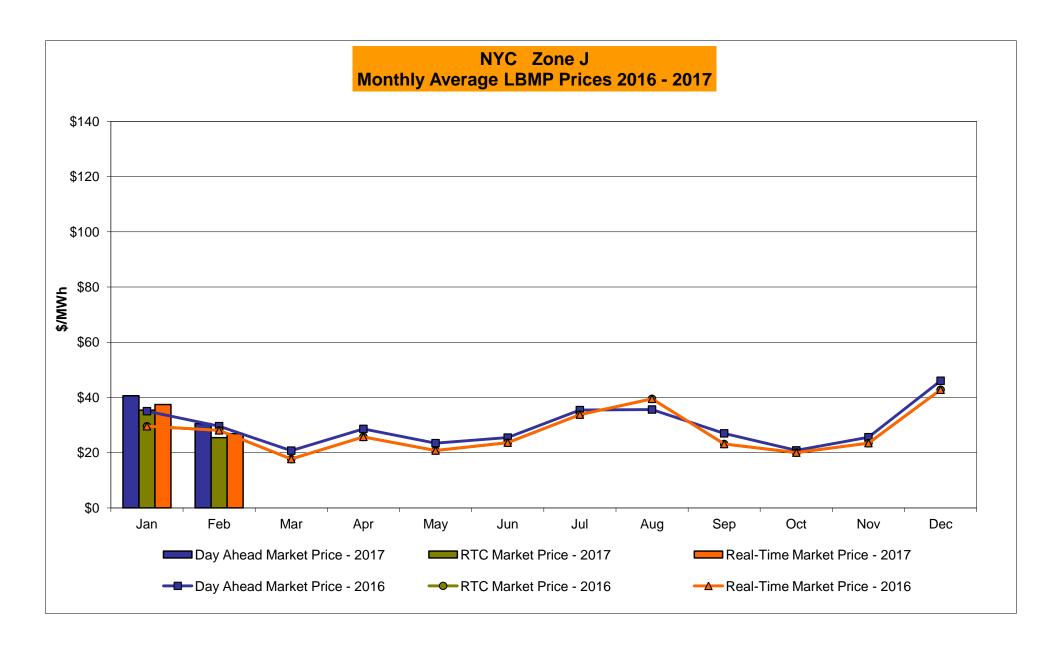
<sup>\*</sup> Straight LBMP averages

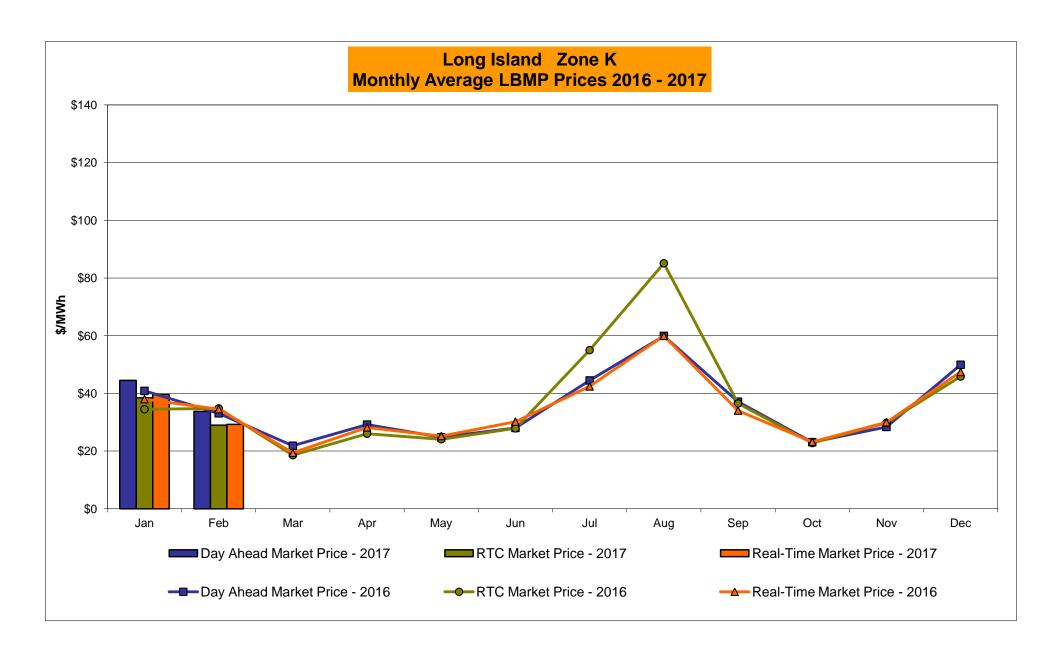


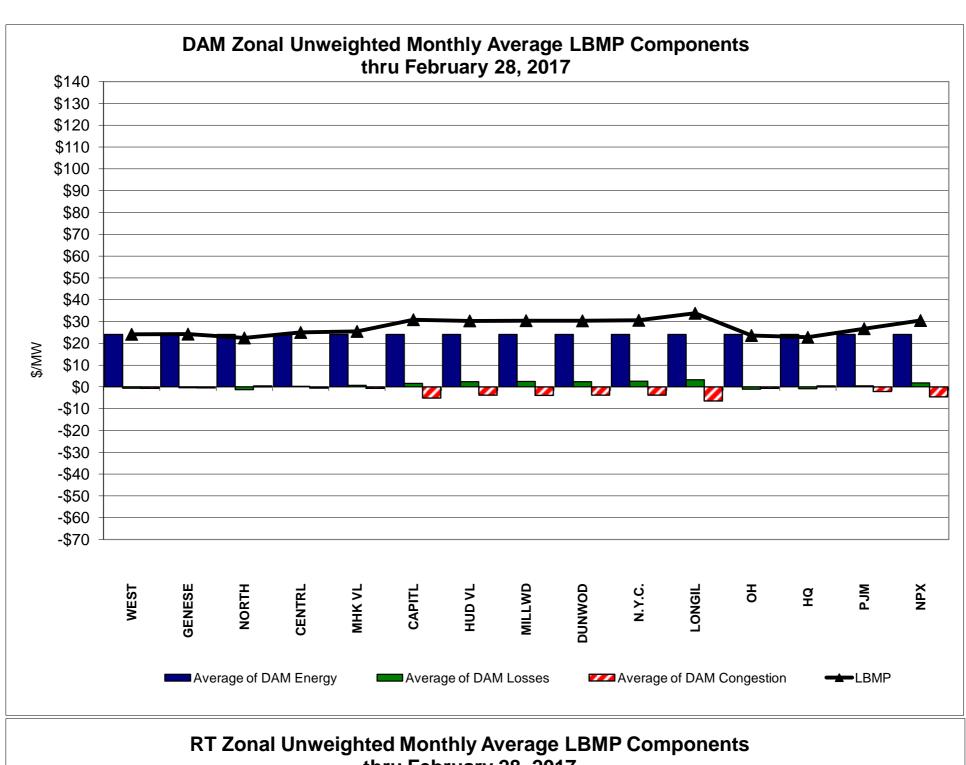


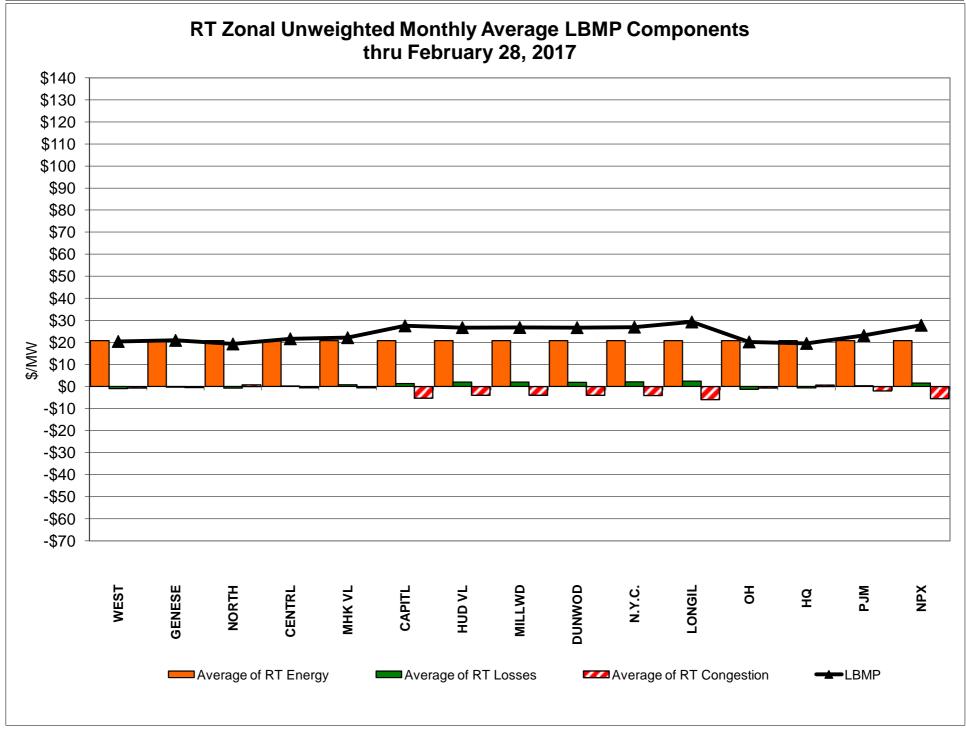




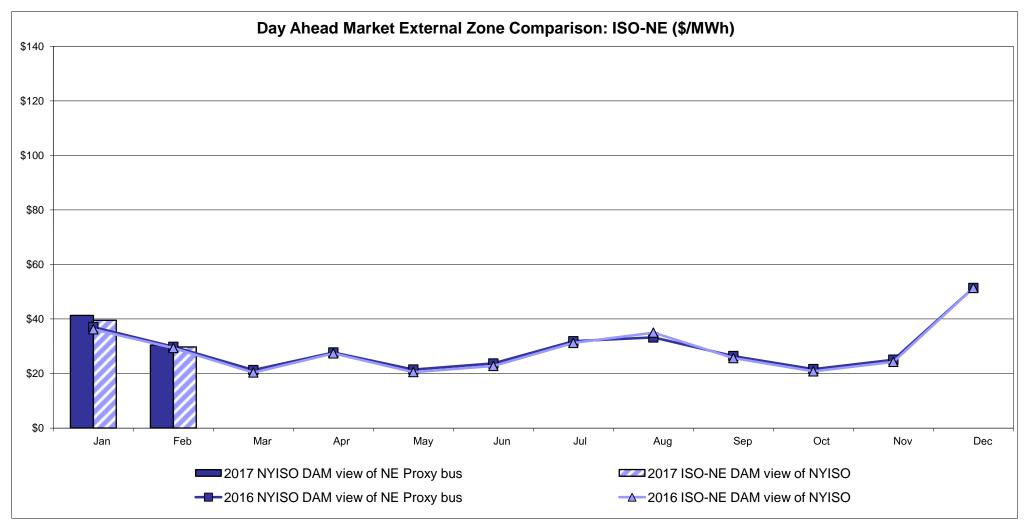


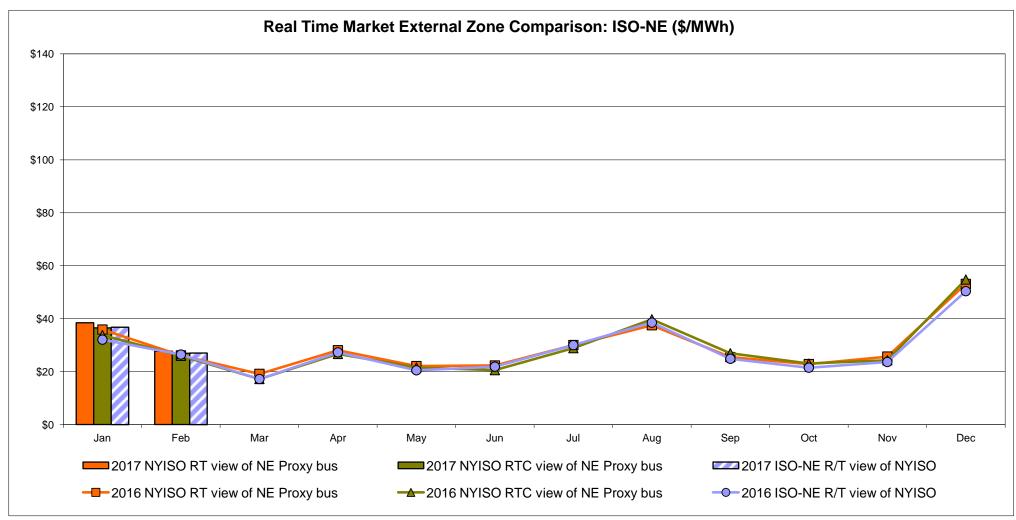


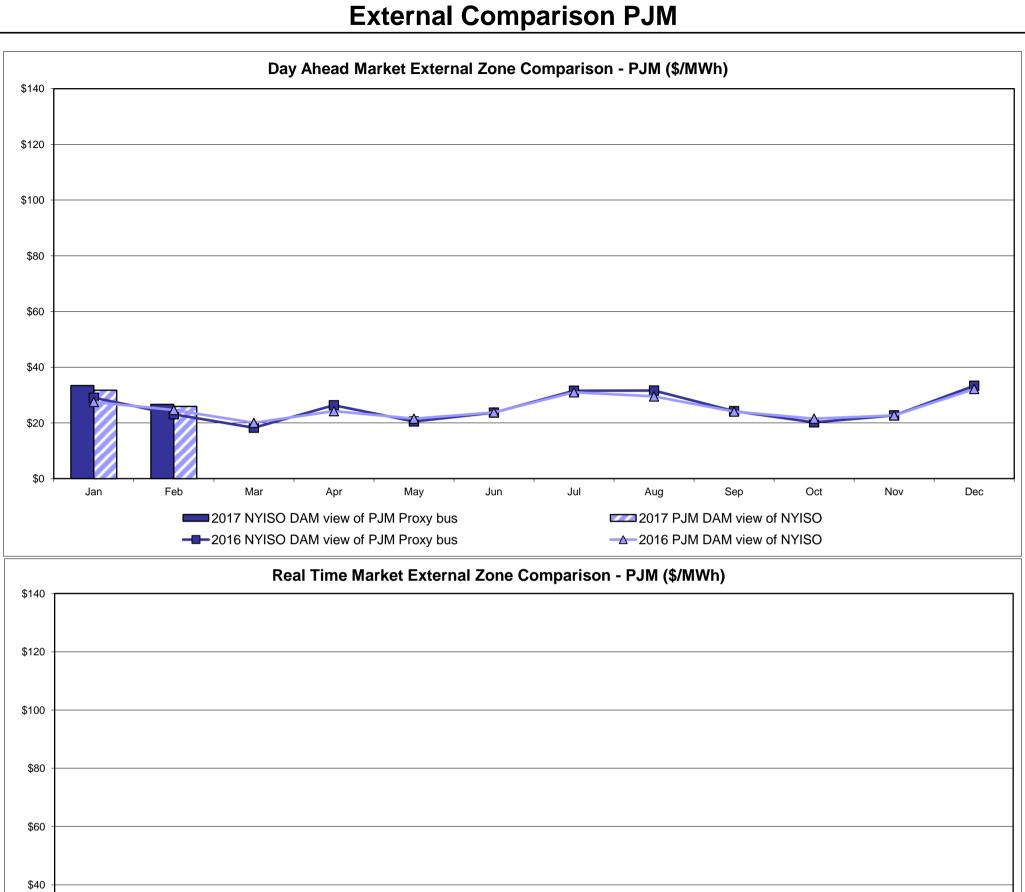




### **External Comparison ISO-New England**







■2017 NYISO RT view of PJM Proxy bus

----2016 NYISO RT view of PJM Proxy bus

\$20

\$0

2017 NYISO RTC view of PJM Proxy bus

→ 2016 NYISO RTC view of PJM Proxy bus

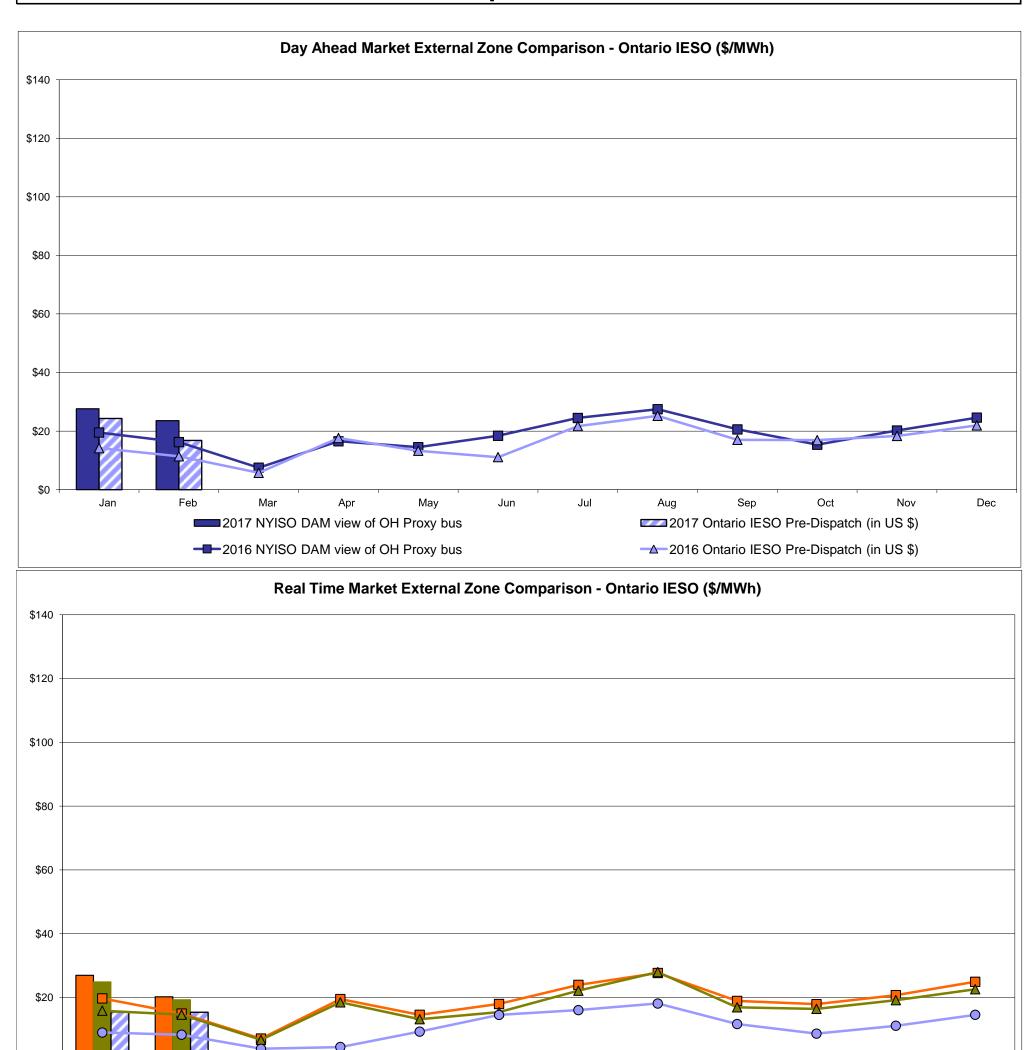
Sep

2017 PJM R/T view of NYISO

-0-2016 PJM R/T view of NYISO

May

# **External Comparison Ontario IESO**



Notes: Exchange factor used for February 2017 was 0.763242253 to US

May

Jun

2017 NYISO RTC view of OH Proxy bus

→ 2016 NYISO RTC view of OH Proxy bus

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

2017 NYISO RT view of OH Proxy bus

—2016 NYISO RT view of OH Proxy bus

Feb

Jan

Aug

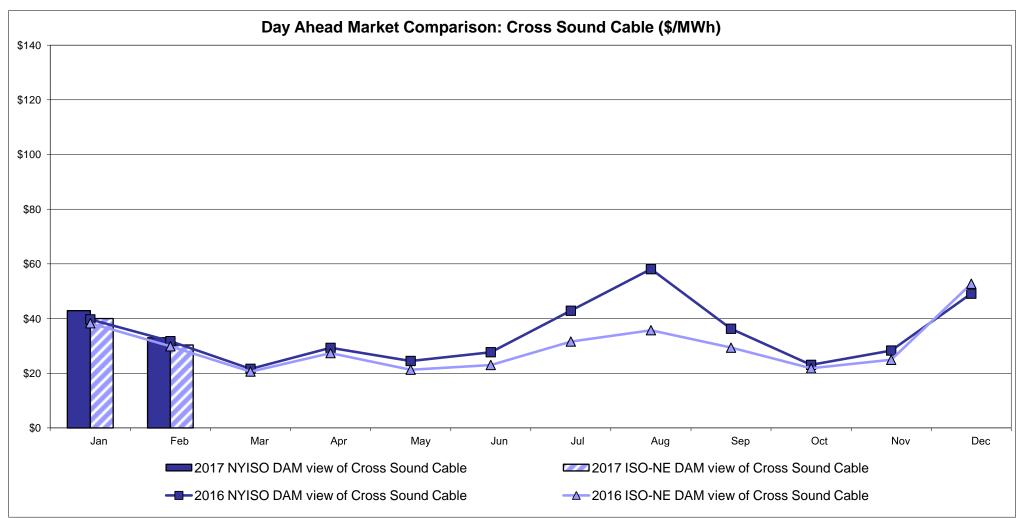
Sep

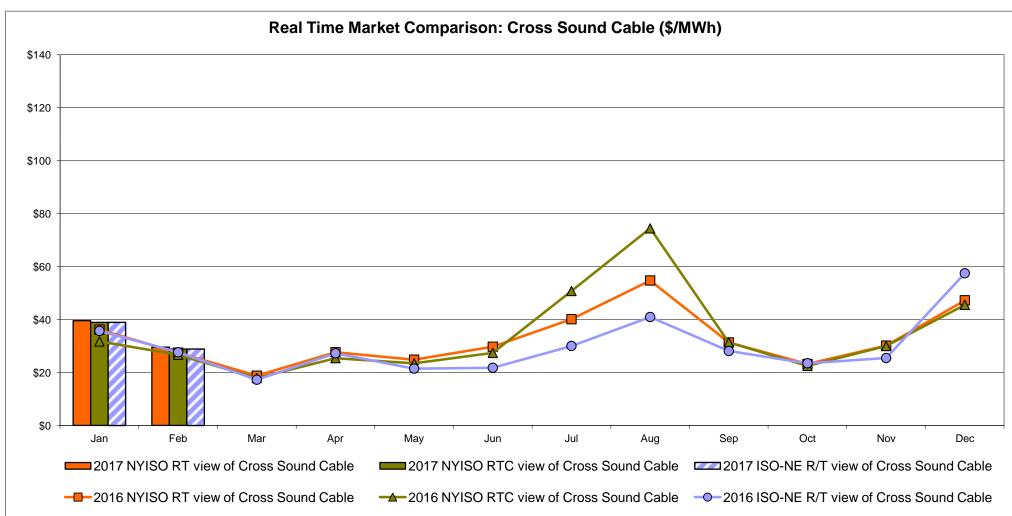
2017 Ontario IESO HOEP (in US \$)

-O-2016 Ontario IESO HOEP (in US \$)

Dec

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





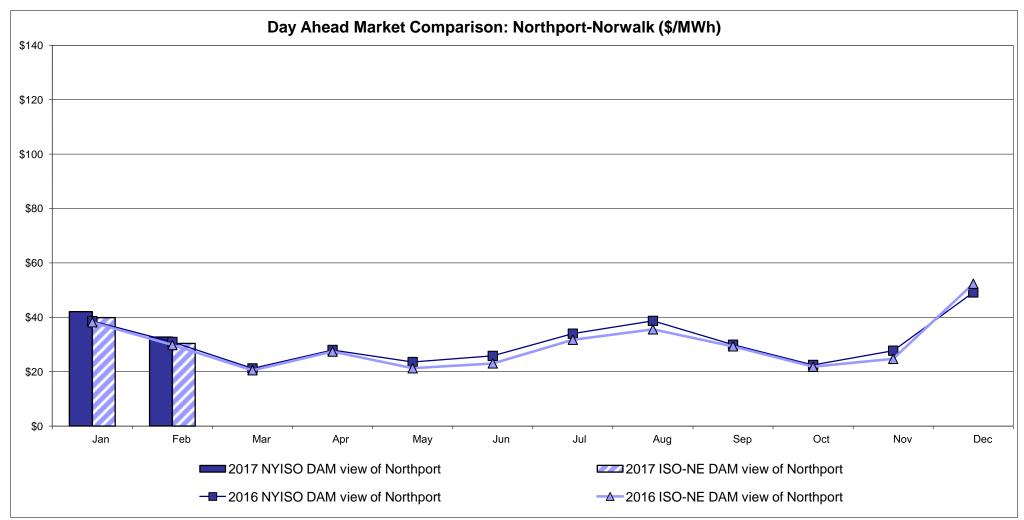
#### Note:

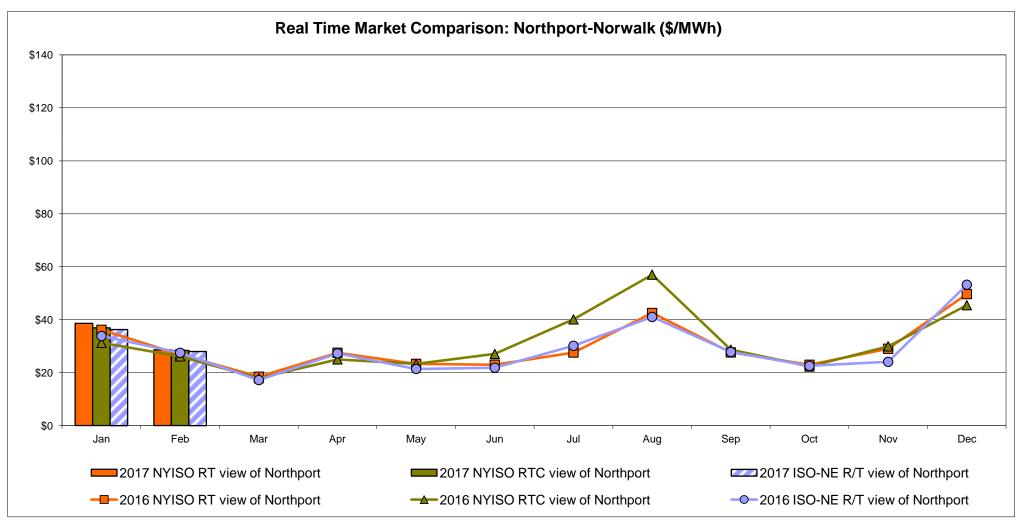
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)**





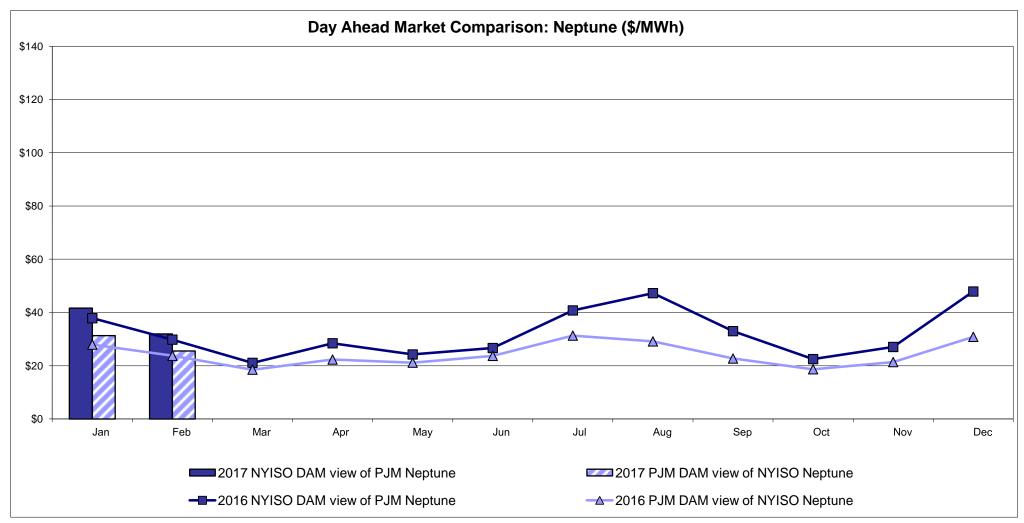
#### Note:

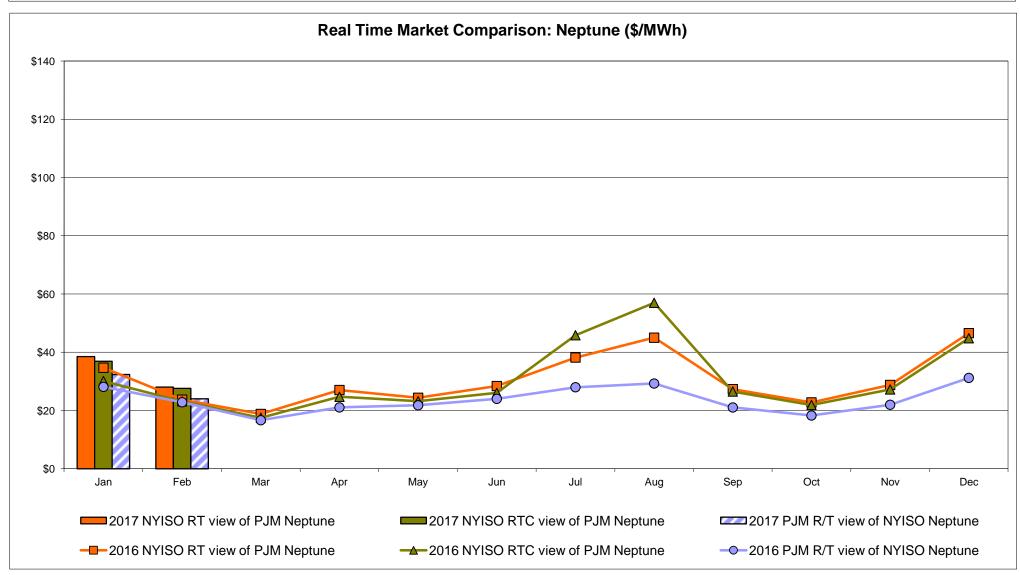
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

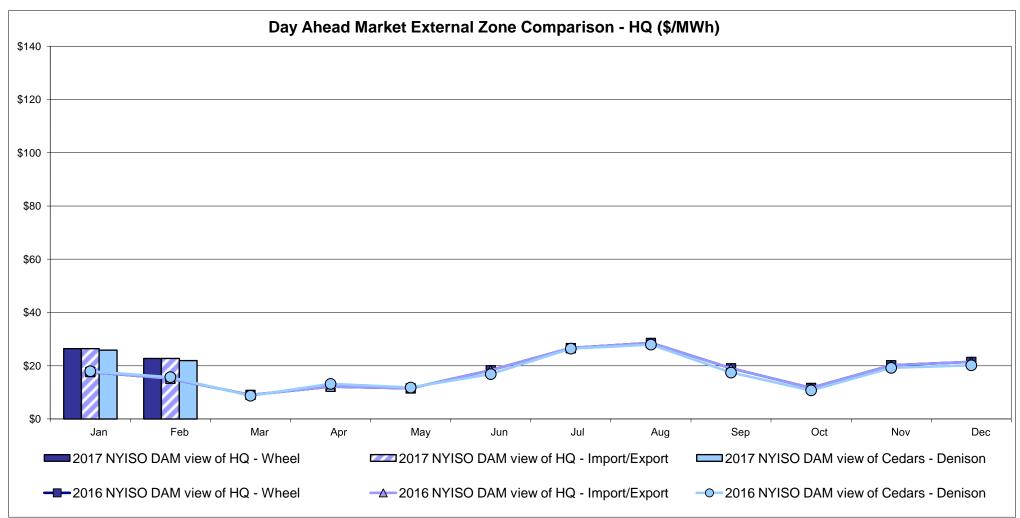
The DAM and R/T prices at the 1385 interface are used for NYISO.

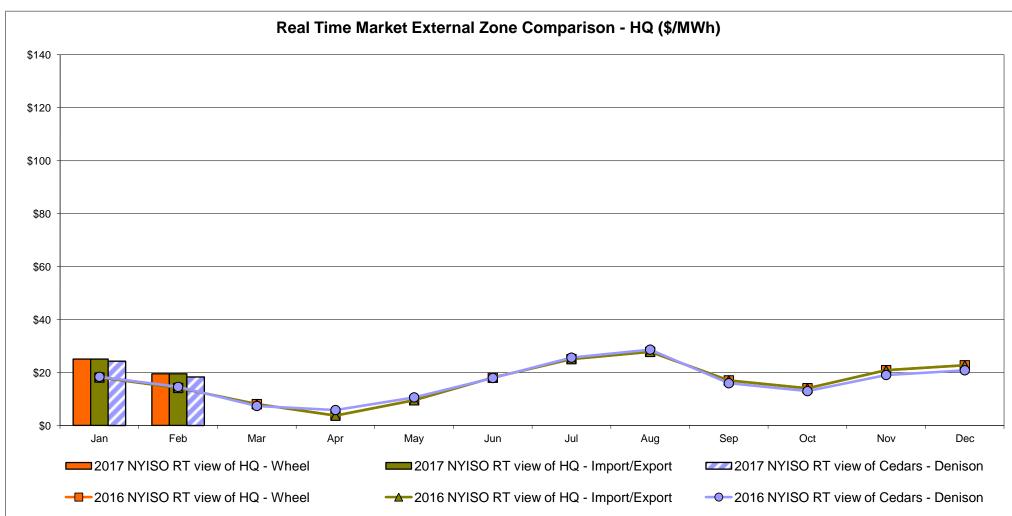
### **External Controllable Line: Neptune (PJM)**





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

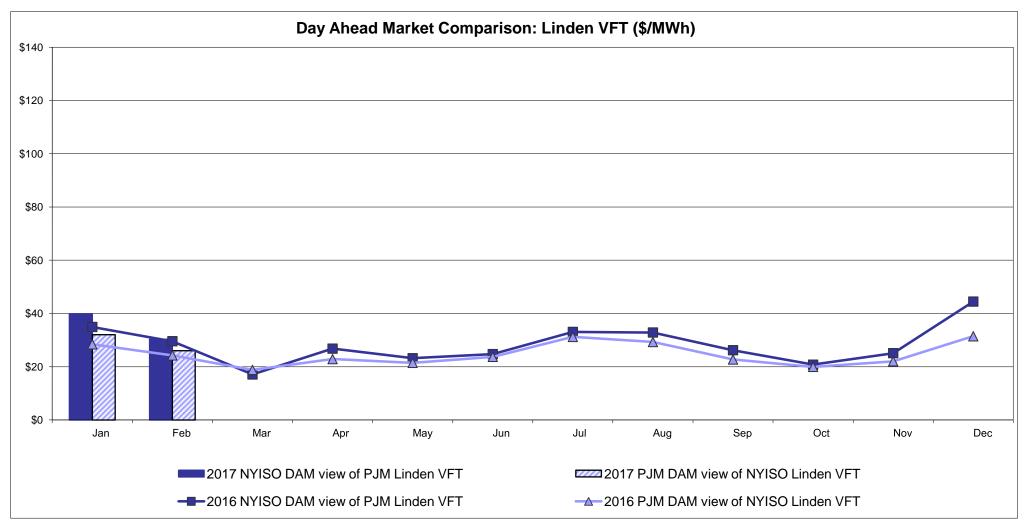


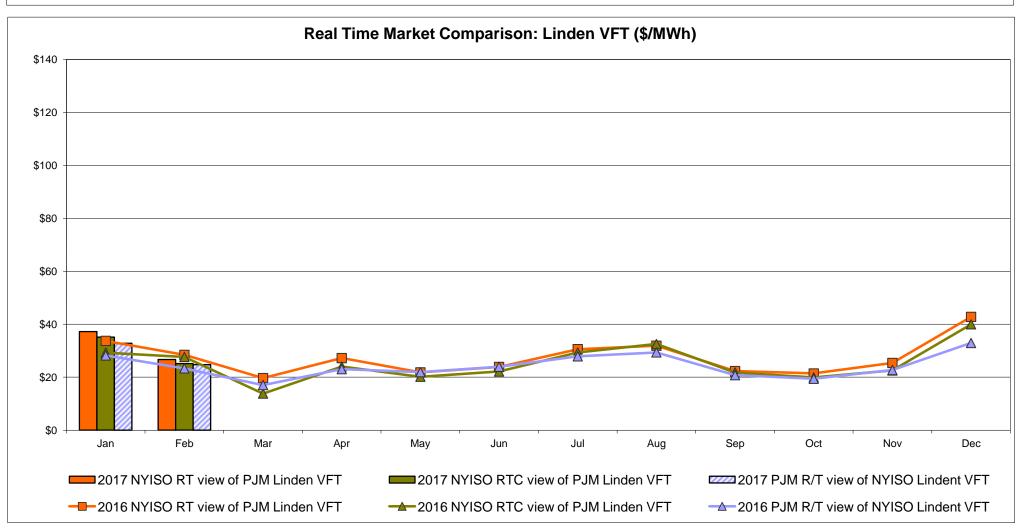


Note:

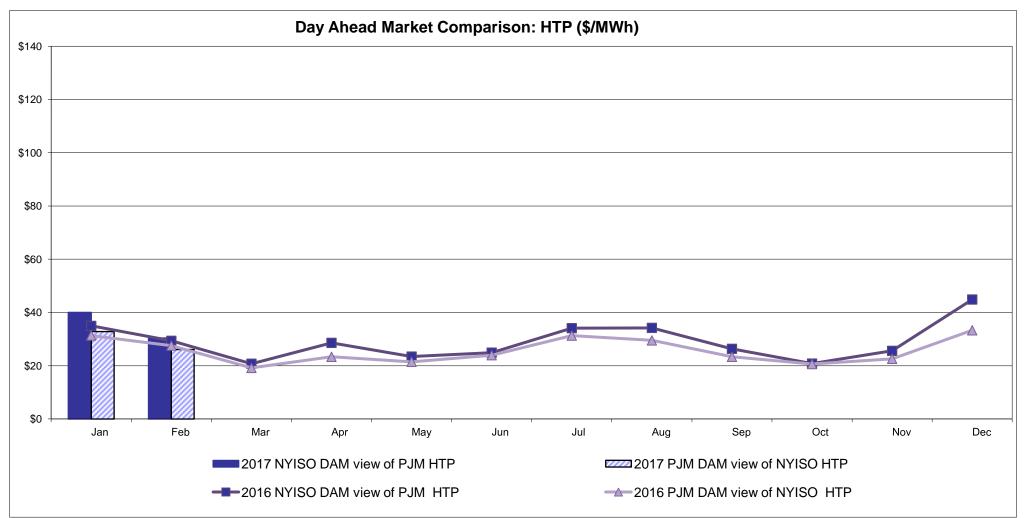
Hydro-Quebec Prices are unavailable.

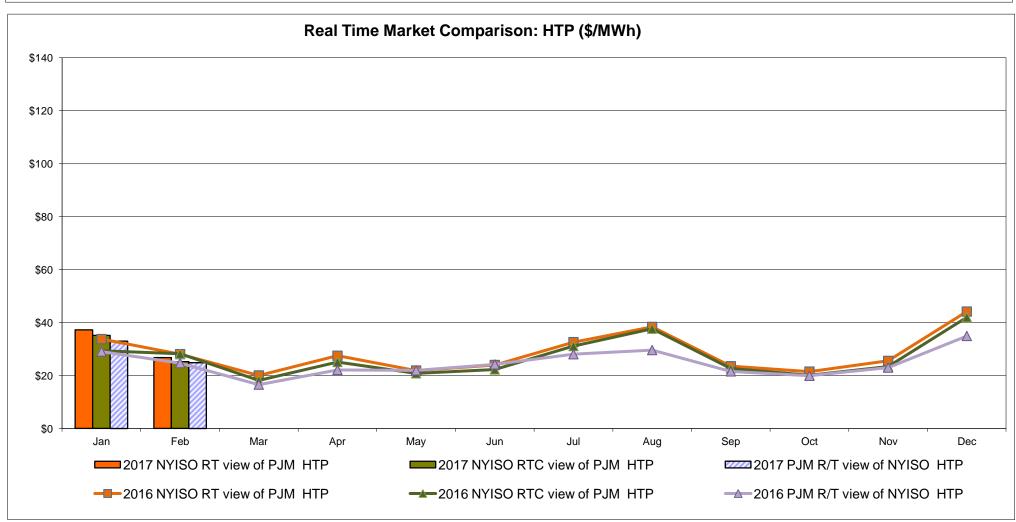
#### **External Controllable Line: Linden VFT (PJM)**





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



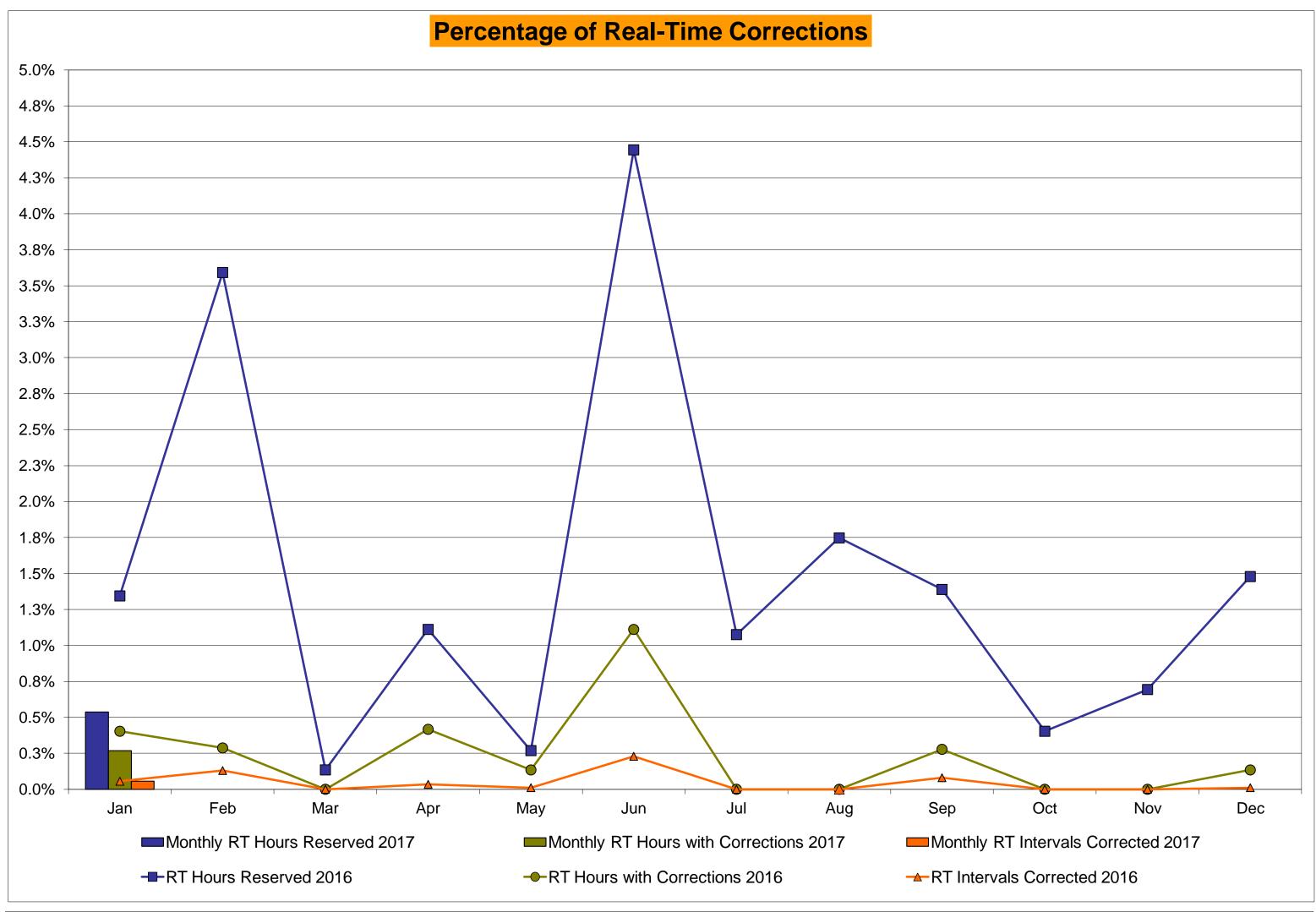


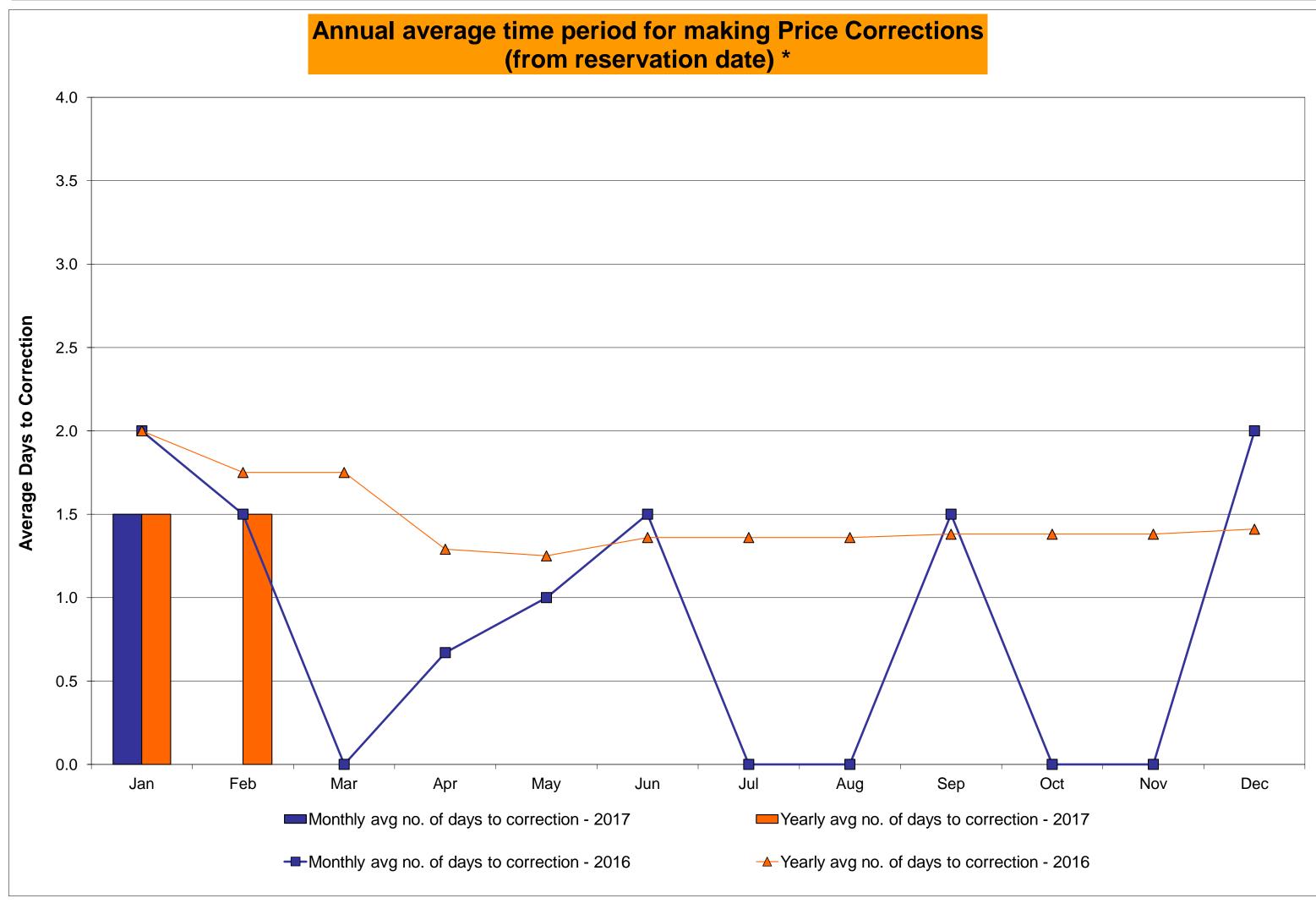
#### **NYISO Real Time Price Correction Statistics**

<u>2017</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	<u>December</u>
<b>Hour Corrections</b>													
Number of hours with corrections	in the month	2	0										
Number of hours	in the month	744	672										
% of hours with corrections	in the month	0.27%	0.00%										
% of hours with corrections	year-to-date	0.27%	0.14%										
Interval Corrections													
Number of intervals corrected	in the month	5	0										
Number of intervals	in the month	8,983	8,101										
% of intervals corrected	in the month	0.06%	0.00%										
% of intervals corrected	year-to-date	0.06%	0.03%										
Hours Reserved													
Number of hours reserved	in the month	4	0										
Number of hours	in the month	744	672										
% of hours reserved	in the month	0.54%	0.00%										
% of hours reserved	year-to-date	0.54%	0.28%										
Days to Correction *	,												_
Avg. number of days to correction	in the month	1.50	0.00										
Avg. number of days to correction	year-to-date	1.50	1.50										
Days Without Corrections	•												
Days without corrections	in the month	29	28										
Days without corrections	year-to-date	29	57										
<u>2016</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Hour Corrections						May	<del></del>						<u>December</u>
Hour Corrections  Number of hours with corrections	in the month	3	2	0	3	1	8	0	0	2	0	0	1
Hour Corrections  Number of hours with corrections  Number of hours	in the month	3 744	2 696	0 743	3 720	1 744	8 720	0 744	0 744	2 720	0 744	0 721	1 744
Hour Corrections  Number of hours with corrections		3	2	0	3	1	8	0	0	2	0	0	1
Hour Corrections  Number of hours with corrections  Number of hours	in the month	3 744	2 696	0 743	3 720	1 744	8 720	0 744	0 744	2 720	0 744	0 721	1 744
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	3 744 0.40%	2 696 0.29%	0 743 0.00%	3 720 0.42%	1 744 0.13%	8 720 1.11%	0 744 0.00%	0 744 0.00%	2 720 0.28%	0 744 0.00%	0 721 0.00%	1 744 0.13%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month	3 744 0.40%	2 696 0.29%	0 743 0.00%	3 720 0.42%	1 744 0.13%	8 720 1.11%	0 744 0.00%	0 744 0.00%	2 720 0.28%	0 744 0.00%	0 721 0.00%	1 744 0.13%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	3 744 0.40% 0.40%	2 696 0.29% 0.35%	0 743 0.00% 0.23%	3 720 0.42% 0.28%	1 744 0.13%	8 720 1.11% 0.39% 20 8,725	0 744 0.00% 0.33%	0 744 0.00% 0.29%	2 720 0.28% 0.29%	0 744 0.00% 0.26% 0 8,960	0 721 0.00% 0.24%	1 744 0.13%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	3 744 0.40% 0.40%	2 696 0.29% 0.35%	0 743 0.00% 0.23%	3 720 0.42% 0.28%	1 744 0.13% 0.25%	8 720 1.11% 0.39%	0 744 0.00% 0.33%	0 744 0.00% 0.29%	2 720 0.28% 0.29%	0 744 0.00% 0.26%	0 721 0.00% 0.24%	1 744 0.13% 0.23%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals	in the month in the month year-to-date in the month in the month	3 744 0.40% 0.40% 5 9,000	2 696 0.29% 0.35% 11 8,440	0 743 0.00% 0.23% 0 8,995	3 720 0.42% 0.28% 3 8,724	1 744 0.13% 0.25% 1 8,987	8 720 1.11% 0.39% 20 8,725	0 744 0.00% 0.33% 0 9,038	0 744 0.00% 0.29% 0 9,048	2 720 0.28% 0.29% 7 8,713 0.08%	0 744 0.00% 0.26% 0 8,960	0 721 0.00% 0.24% 0 8,724	1 744 0.13% 0.23% 1 9,034 0.01%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date  in the month in the month in the month in the month	3 744 0.40% 0.40% 5 9,000 0.06%	2 696 0.29% 0.35% 11 8,440 0.13%	0 743 0.00% 0.23% 0 8,995 0.00%	3 720 0.42% 0.28% 3 8,724 0.03%	1 744 0.13% 0.25% 1 8,987 0.01%	8 720 1.11% 0.39% 20 8,725 0.23%	0 744 0.00% 0.33% 0 9,038 0.00%	0 744 0.00% 0.29% 0 9,048 0.00%	2 720 0.28% 0.29% 7 8,713	0 744 0.00% 0.26% 0 8,960 0.00%	0 721 0.00% 0.24% 0 8,724 0.00%	1 744 0.13% 0.23% 1 9,034
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected	in the month in the month year-to-date  in the month in the month in the month in the month	3 744 0.40% 0.40% 5 9,000 0.06%	2 696 0.29% 0.35% 11 8,440 0.13%	0 743 0.00% 0.23% 0 8,995 0.00%	3 720 0.42% 0.28% 3 8,724 0.03%	1 744 0.13% 0.25% 1 8,987 0.01%	8 720 1.11% 0.39% 20 8,725 0.23%	0 744 0.00% 0.33% 0 9,038 0.00%	0 744 0.00% 0.29% 0 9,048 0.00%	2 720 0.28% 0.29% 7 8,713 0.08%	0 744 0.00% 0.26% 0 8,960 0.00%	0 721 0.00% 0.24% 0 8,724 0.00%	1 744 0.13% 0.23% 1 9,034 0.01%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date	3 744 0.40% 0.40% 5 9,000 0.06% 0.06%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09%	0 743 0.00% 0.23% 0 8,995 0.00%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05%	1 744 0.13% 0.25% 1 8,987 0.01% 0.05%	8 720 1.11% 0.39% 20 8,725 0.23% 0.08%	0 744 0.00% 0.33% 0 9,038 0.00% 0.06%	0 744 0.00% 0.29% 0 9,048 0.00% 0.06%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	3 744 0.40% 0.40% 5 9,000 0.06% 0.06%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09%	0 743 0.00% 0.23% 0 8,995 0.00% 0.06%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05%	1 744 0.13% 0.25% 1 8,987 0.01% 0.05%	8 720 1.11% 0.39% 20 8,725 0.23% 0.08%	0 744 0.00% 0.33% 0 9,038 0.00% 0.06%	0 744 0.00% 0.29% 0 9,048 0.00% 0.06%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59%	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11%	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27%	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720 4.44%	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744 1.08%	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	3 744 0.40% 0.40% 5 9,000 0.06% 0.06%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09%	0 743 0.00% 0.23% 0 8,995 0.00% 0.06%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05%	1 744 0.13% 0.25% 1 8,987 0.01% 0.05%	8 720 1.11% 0.39% 20 8,725 0.23% 0.08%	0 744 0.00% 0.33% 0 9,038 0.00% 0.06%	0 744 0.00% 0.29% 0 9,048 0.00% 0.06%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34% 1.34%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43%	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52%	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26%	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720 4.44% 1.79%	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744 1.08% 1.68%	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46%
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  Wo of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  More to Correction % of hours reserved  Days to Correction Avg. number of days to correction	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34% 1.34%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43%	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52%	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26%	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720 4.44% 1.79%	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744 1.08% 1.68%	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved Days to Correction *	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34% 1.34%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43%	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52%	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26%	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720 4.44% 1.79%	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744 1.08% 1.68%	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections  % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected  % of intervals corrected  Hours Reserved  Number of hours reserved Number of hours % of hours reserved  % of hours reserved  % of hours reserved  Avg. number of days to correction Avg. number of days to correction  Days Without Corrections	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34% 1.34% 2.00 2.00	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43% 1.50 1.75	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52%	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26% 1.00 1.25	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720 4.44% 1.79%	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744 1.08% 1.68% 0.00 1.36	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69% 0.00 1.36	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66% 1.50 1.38	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46% 0.00 1.38	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46% 2.00 1.41
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved  Number of days to correction Avg. number of days to correction	in the month in the month year-to-date  in the month in the month in the month year-to-date  in the month year-to-date  in the month year-to-date	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34% 1.34%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43%	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65% 0.00 1.75	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52% 0.67 1.29	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26%	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720 4.44% 1.79% 1.50 1.36	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744 1.08% 1.68%	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53% 0.00 1.38	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46%

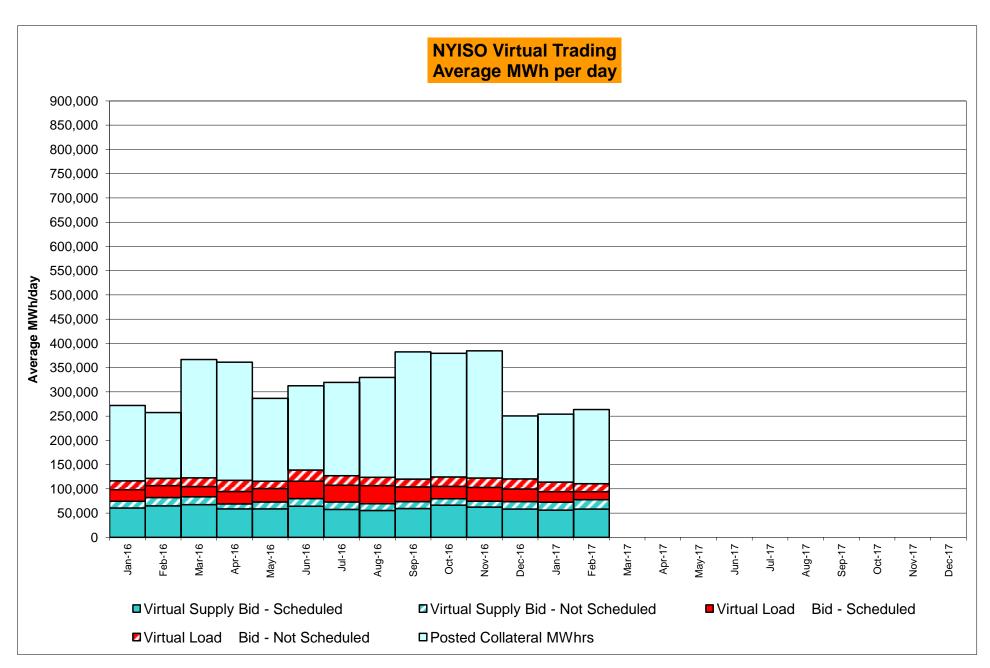
<sup>\*</sup> Calendar days from reservation date.

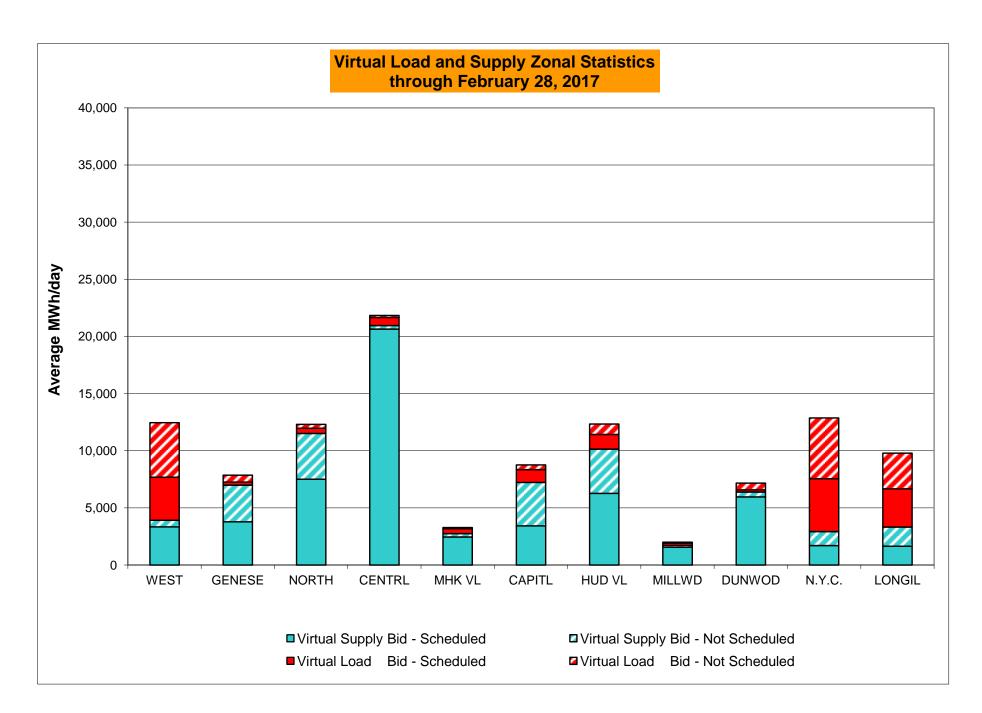
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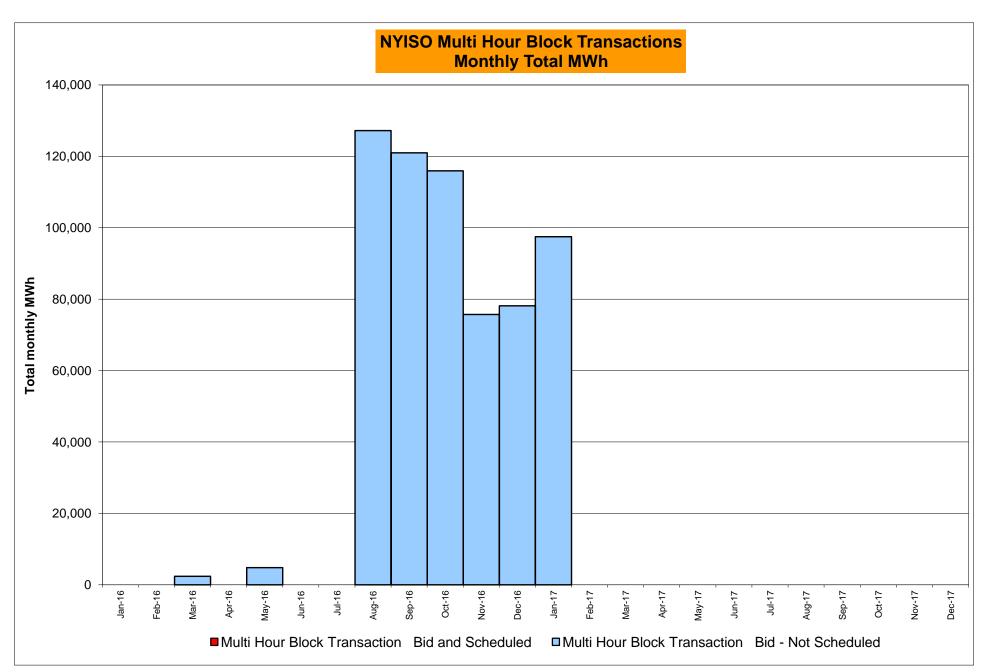


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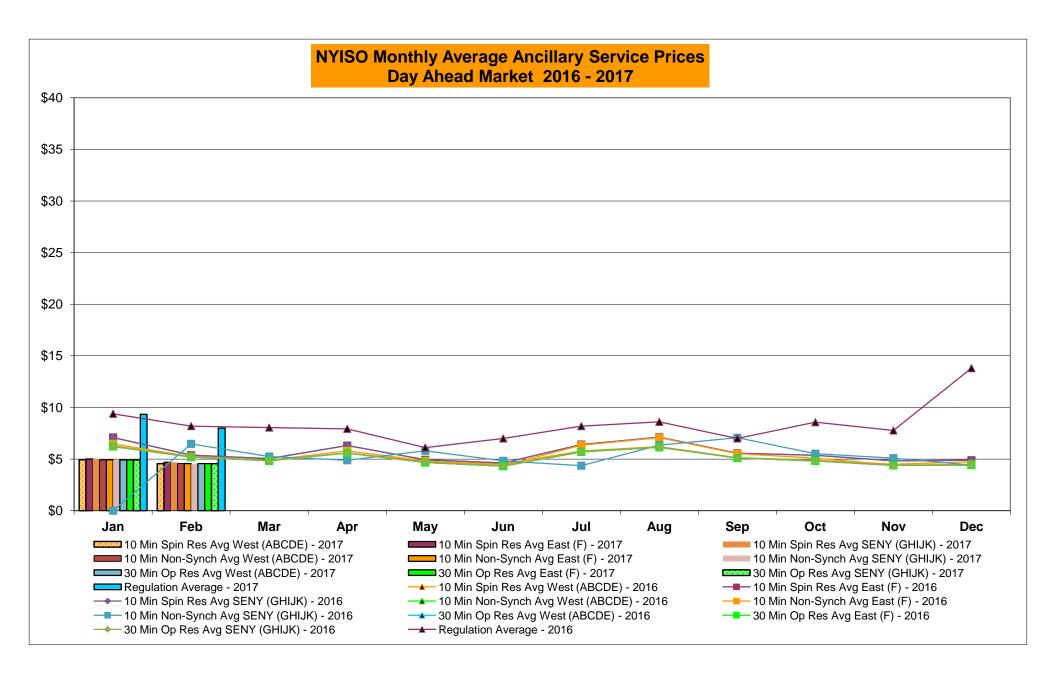


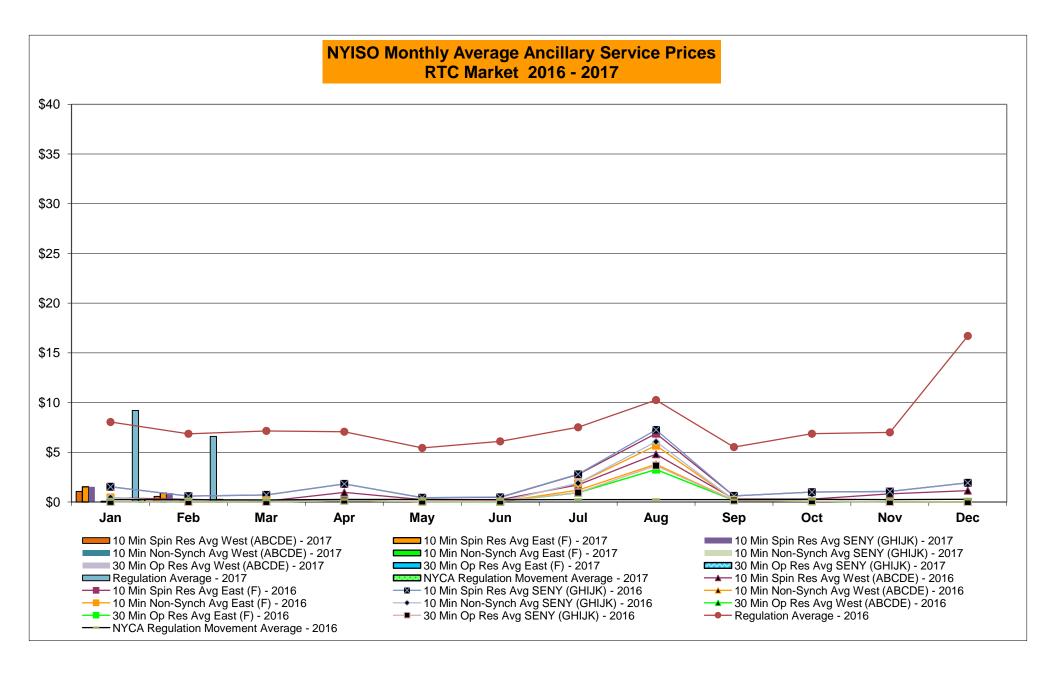


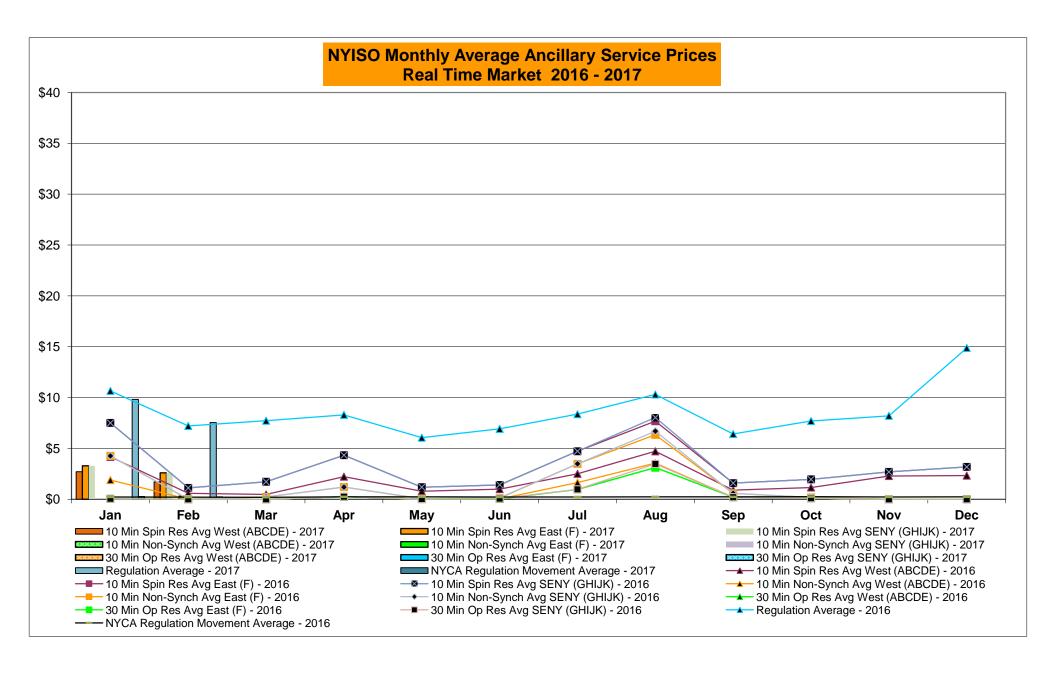
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2017 **Virtual Supply Bid Virtual Load Bid Virtual Supply Bid Virtual Load Bid Virtual Supply Bid Virtual Load Bid** Not Not Not Not Not Not Date Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled Zone DUNWOD WEST MHK VL 6,094 2,019 337 Jan-17 2,022 Jan-17 304 832 5,708 Jan-17 5,795 566 202 131 389 5,966 Feb-17 3,771 4,772 3,346 567 Feb-17 422 100 2,459 293 Feb-17 193 585 424 Mar-17 Mar-17 Mar-17 Apr-17 Apr-17 Apr-17 May-17 May-17 May-17 Jun-17 Jun-17 Jun-17 Jul-17 Jul-17 Jul-17 Aug-17 Aug-17 Aug-17 Sep-17 Sep-17 Sep-17 Oct-17 Oct-17 Oct-17 Nov-17 Nov-17 Nov-17 Dec-17 Dec-17 Dec-17 GENESE Jan-17 654 1,282 3,652 2,482 CAPITL Jan-17 666 N.Y.C. Jan-17 5,474 1,291 3,990 3,861 5,761 1,543 1,008 1,115 Feb-17 276 3,782 3,206 Feb-17 3,432 Feb-17 600 409 3,798 4,622 5,309 1,712 1,219 Mar-17 Mar-17 Mar-17 Apr-17 Apr-17 Apr-17 May-17 May-17 May-17 Jun-17 Jun-17 Jun-17 Jul-17 Jul-17 Jul-17 Aug-17 Aug-17 Aug-17 Sep-17 Sep-17 Sep-17 Oct-17 Oct-17 Oct-17 Nov-17 Nov-17 Nov-17 Dec-17 Dec-17 Dec-17 NORTH 655 HUD VL Jan-17 817 3,064 LONGIL 3,788 Jan-17 316 6,415 3,473 911 5,317 Jan-17 3,559 1,354 1,367 1,292 Feb-17 465 338 7,504 4,006 Feb-17 915 6,266 3,873 Feb-17 3,341 3,127 1,653 1,667 Mar-17 Mar-17 Mar-17 Apr-17 Apr-17 Apr-17 May-17 May-17 May-17 Jun-17 Jun-17 Jun-17 Jul-17 Jul-17 Jul-17 Aug-17 Aug-17 Aug-17 Sep-17 Sep-17 Sep-17 Oct-17 Oct-17 Oct-17 Nov-17 Nov-17 Nov-17 Dec-17 Dec-17 Dec-17 CENTRL Jan-17 1,482 455 22,561 196 MILLWD Jan-17 435 91 1,422 128 NYISO Jan-17 21,713 19,719 56,001 16,436 Feb-17 707 177 20,639 320 Feb-17 202 74 1,555 164 Feb-17 16,405 16,406 58,312 19,537 Mar-17 Mar-17 Mar-17 Apr-17 Apr-17 Apr-17 May-17 May-17 May-17 Jun-17 Jun-17 Jun-17 Jul-17 Jul-17 Jul-17 Aug-17 Aug-17 Aug-17 Sep-17 Sep-17 Sep-17 Oct-17 Oct-17 Oct-17 Nov-17 Nov-17 Nov-17 Dec-17 Dec-17 Dec-17



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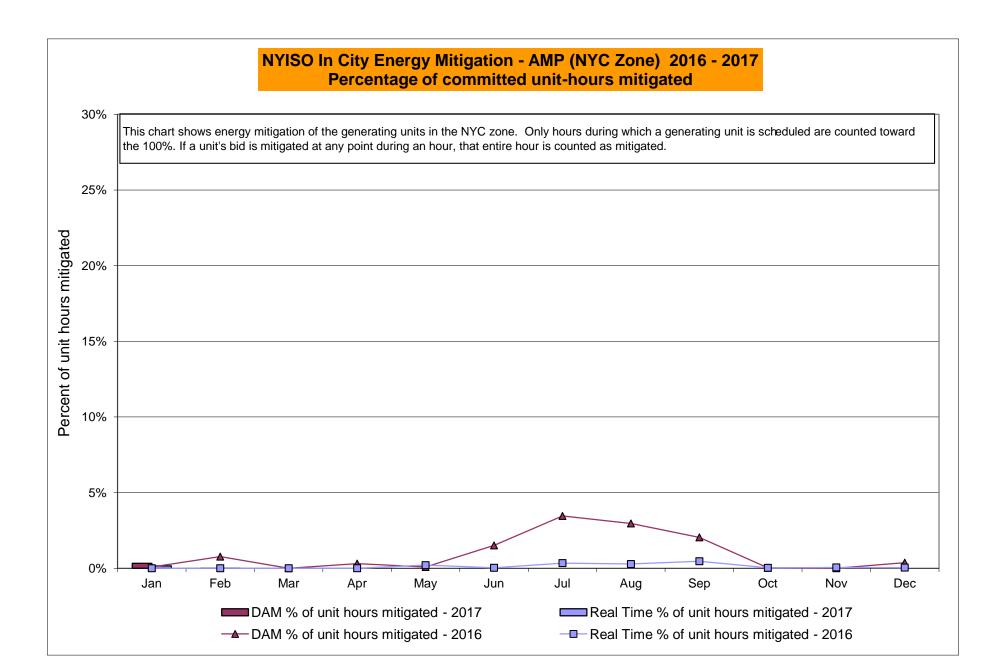


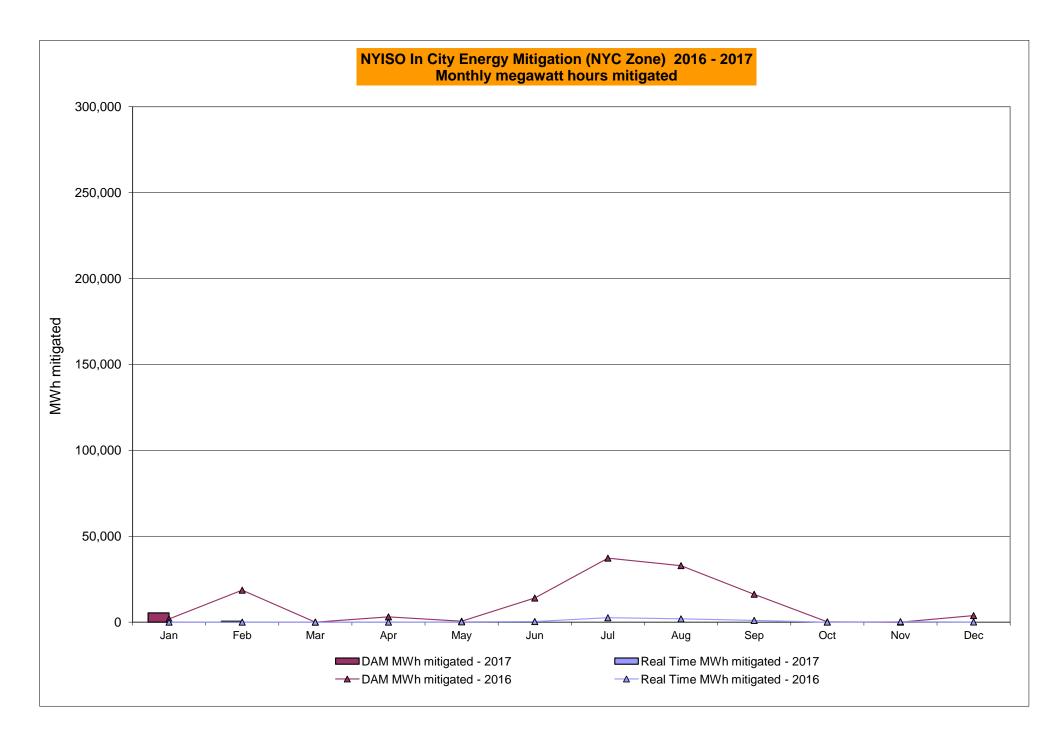


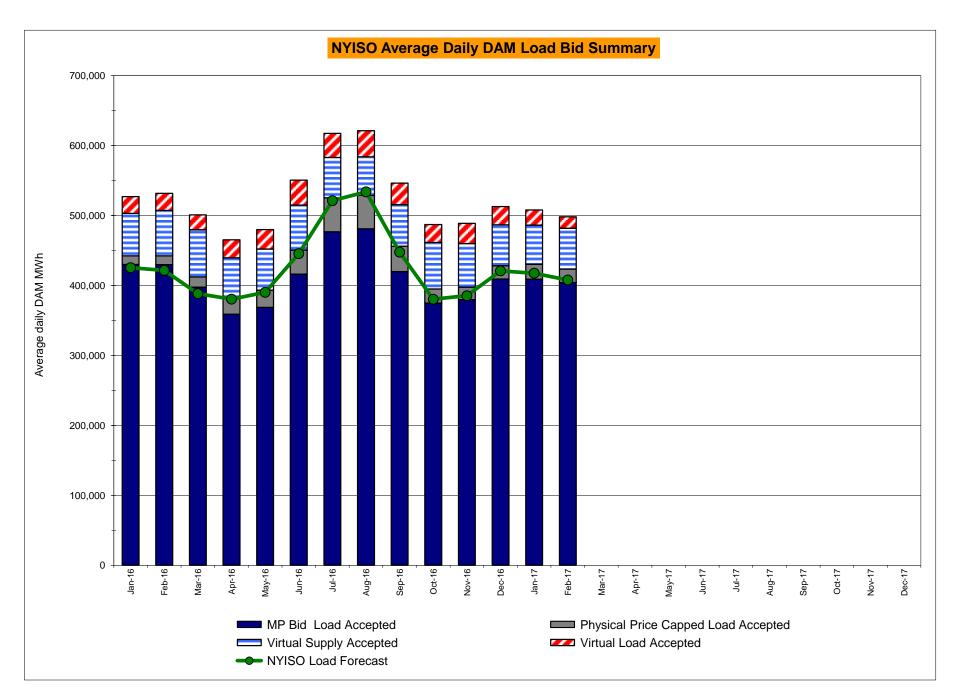


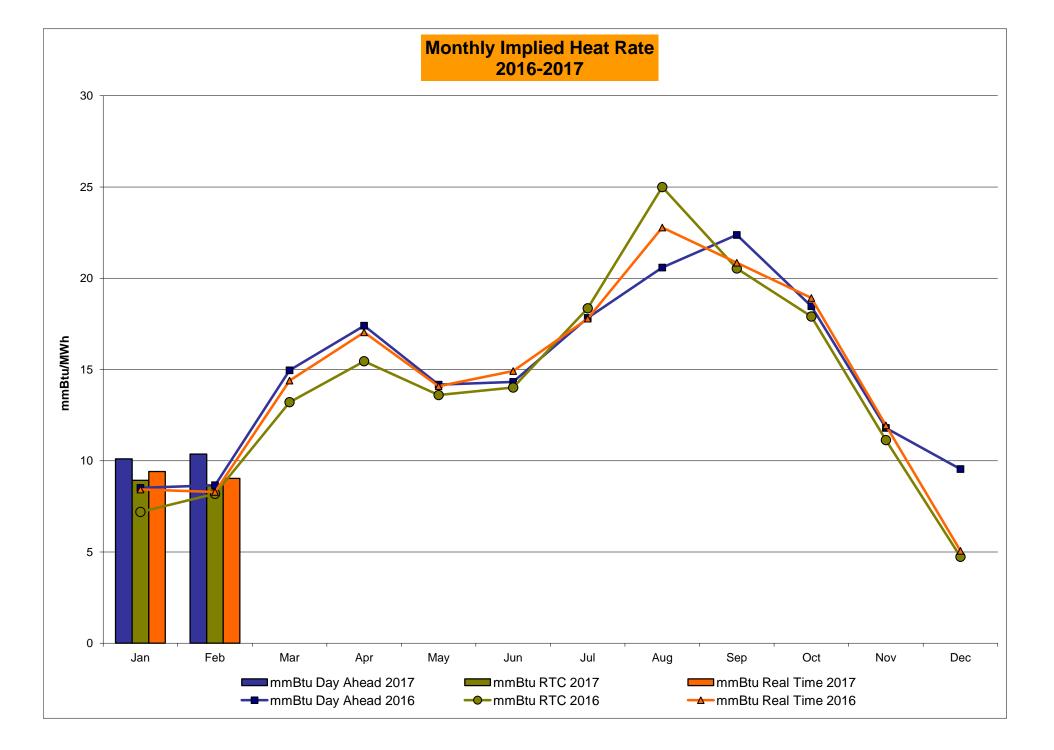
# NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

2017	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	<u>December</u>
Day Ahead Market												
10 Min Spin SENY (GHIJK)	5.01	4.68										
10 Min Spin East (F)	5.01	4.68										
10 Min Spin West (ABCDE)	4.94	4.56										
10 Min Non Synch SENY (GHIJK)	4.94	4.57										
10 Min Non Synch East (F)	4.94	4.57										
10 Min Non Synch West (ABCDE)	4.92	4.56										
30 Min SENY (GHIJK)	4.92	4.56										
30 Min East (F)	4.92	4.56										
30 Min West (ABCDE)	4.92	4.56										
Regulation	9.34	7.99										
RTC Market												
10 Min Spin SENY (GHIJK)	1.53	0.89										
10 Min Spin SENT (GHISK)	1.53	0.89										
10 Min Spin West (ABCDE)	1.06	0.55										
10 Min Non Synch SENY (GHIJK)	0.06	0.06										
10 Min Non Synch East (F)	0.06	0.06										
	0.00	0.00										
10 Min Non Synch West (ABCDE)												
30 Min SENY (GHIJK)	0.00	0.00										
30 Min East (F)	0.00	0.00										
30 Min West (ABCDE)	0.00	0.00										
Regulation	9.21	6.59										
NYCA Regulation Movement	0.27	0.24										
Real Time Market												
10 Min Spin SENY (GHIJK)	3.29	2.61										
10 Min Spin East (F)	3.29	2.61										
10 Min Spin West (ABCDE)	2.71	1.71										
10 Min Non Synch SENY (GHIJK)	0.00	0.31										
10 Min Non Synch East (F)	0.00	0.31										
10 Min Non Synch West (ABCDE)	0.00	0.00										
30 Min SENY (GHIJK)	0.00	0.00										
30 Min East (F)	0.00	0.00										
30 Min West (ABCDE)	0.00	0.00										
Regulation	9.83	7.54										
NYCA Regulation Movement	0.27	0.24										
NTOA Regulation Movement	0.27	0.24										
2016	January	February	March	April	Mav	June	Julv	August	September	October	November	December
2016 Day Ahead Market	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
Day Ahead Market									-			
Day Ahead Market  10 Min Spin SENY (GHIJK)	7.09	5.38	5.04	6.31	4.93	4.62	6.41	7.12	5.57	5.37	4.83	4.89
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)	7.09 7.09	5.38 5.38	5.04 5.04	6.31 6.31	4.93 4.93	4.62 4.62	6.41 6.41	7.12 7.12	5.57 5.57	5.37 5.37	4.83 4.83	4.89 4.89
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)	7.09 7.09 6.28	5.38 5.38 5.25	5.04 5.04 4.84	6.31 6.31 5.60	4.93 4.93 4.77	4.62 4.62 4.52	6.41 6.41 5.78	7.12 7.12 6.20	5.57 5.57 5.14	5.37 5.37 4.89	4.83 4.83 4.50	4.89 4.89 4.73
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)	7.09 7.09 6.28 6.47	5.38 5.38 5.25 5.25	5.04 5.04 4.84 4.88	6.31 6.31 5.60 5.80	4.93 4.93 4.77 4.83	4.62 4.62 4.52 4.36	6.41 6.41 5.78 6.34	7.12 7.12 6.20 7.07	5.57 5.57 5.14 5.52	5.37 5.37 4.89 5.09	4.83 4.83 4.50 4.43	4.89 4.89 4.73 4.49
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)	7.09 7.09 6.28 6.47 6.47	5.38 5.38 5.25 5.25 5.25	5.04 5.04 4.84 4.88 4.88	6.31 6.31 5.60 5.80 5.80	4.93 4.93 4.77 4.83 4.83	4.62 4.62 4.52 4.36 4.36	6.41 6.41 5.78 6.34 6.34	7.12 7.12 6.20 7.07 7.07	5.57 5.57 5.14 5.52 5.52	5.37 5.37 4.89 5.09 5.09	4.83 4.83 4.50 4.43 4.43	4.89 4.89 4.73 4.49 4.49
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)	7.09 7.09 6.28 6.47 6.47 6.23	5.38 5.38 5.25 5.25 5.25 5.20	5.04 5.04 4.84 4.88 4.88 4.84	6.31 6.31 5.60 5.80 5.80 5.58	4.93 4.93 4.77 4.83 4.83 4.68	4.62 4.62 4.52 4.36 4.36 4.32	6.41 6.41 5.78 6.34 6.34 5.72	7.12 7.12 6.20 7.07 7.07 6.15	5.57 5.57 5.14 5.52 5.52 5.10	5.37 5.37 4.89 5.09 5.09 4.82	4.83 4.83 4.50 4.43 4.43 4.39	4.89 4.89 4.73 4.49 4.49 4.43
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)	7.09 7.09 6.28 6.47 6.47 6.23 6.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	6.31 6.31 5.60 5.80 5.80 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43
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)  30 Min East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	6.31 6.31 5.60 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43
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)  30 Min East (F)  30 Min West (ABCDE)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation	7.09 7.09 6.28 6.47 6.47 6.23 6.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	6.31 6.31 5.60 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	7.12 7.12 6.20 7.07 7.07 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43
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)  30 Min East (F)  30 Min East (F)  Regulation  RTC Market	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 13.80
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.87 0.71 0.71 0.08 0.17	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 6.45 8.61 7.26 6.88 4.80 6.06	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  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 East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57 0.99 0.99 0.29 0.09 0.09 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  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 West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  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 East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93	7.12 7.12 6.20 7.07 7.07 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  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 West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	6.31 5.60 5.80 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC 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 SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93	7.12 7.12 6.20 7.07 7.07 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC 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 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 SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 8.04	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51	7.12 7.12 6.20 7.07 7.07 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 6.86	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  Regulation  NYCA Regulation Movement	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 8.04 0.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00 0.24	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC 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 Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 8.04 0.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00 0.24	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC 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 SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.0	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 7.00 0.24	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC 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 SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51 4.17	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 1.43 1.40 1.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.08 0.08 0.08 0.08 0.08 0.08 1.96 1.96 1.16	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC 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)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51 4.17 4.26	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16 0.16 0.16 0.16 0.17 0.17 0.25	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 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 East (F)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51 4.17 4.26 4.26	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22	6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.18 0.19 0.19 0.19 0.10	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.09 0.08 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 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 East (F)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 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)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51 4.17 4.26 4.26 1.89	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.19	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.06 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 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 West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51 4.17 4.26 4.26 1.89 0.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.19 0.25	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24 1.59 1.59 0.59 0.59 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  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 East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  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 West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51 4.17 4.26 4.26 1.89 0.06 0.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.15 0.16 0.17 0.25 4.34 4.35 6.25	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 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 East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 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 East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  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 West (ABCDE)  30 Min SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51 4.17 4.26 4.26 1.89 0.06 0.06 0.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 0.25	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97	7.12 7.12 6.20 7.07 7.07 6.15 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.08 0.08 0.08 0.08 0.08 0.26 1.96 1.16 0.18 0.11 0.11	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80  1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  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 East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  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 West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39  1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01 8.04 0.23  7.51 7.51 4.17 4.26 4.26 1.89 0.06 0.06	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.15 0.16 0.17 0.25 4.34 4.35 6.25	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00

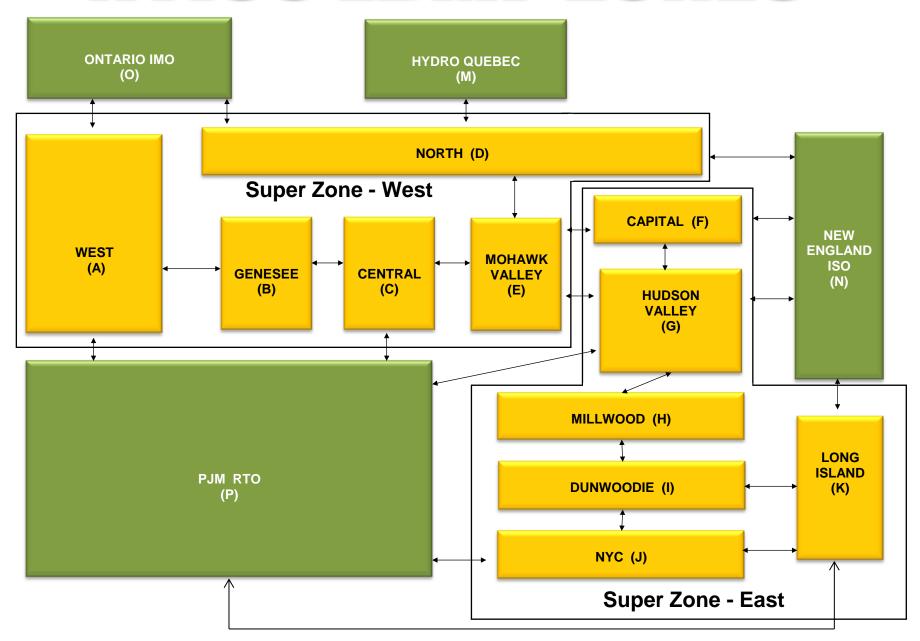








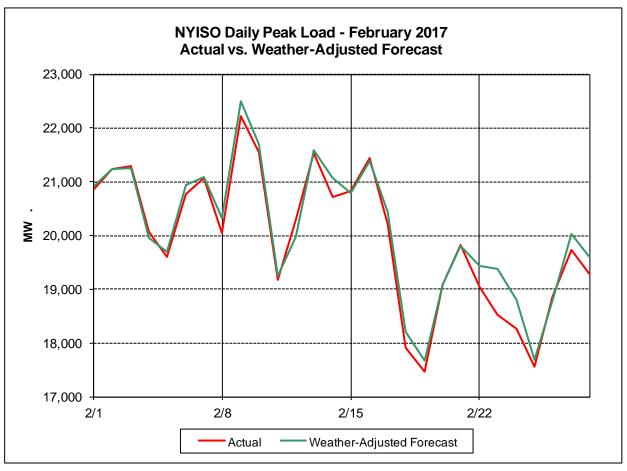
# NYISO LBMP ZONES

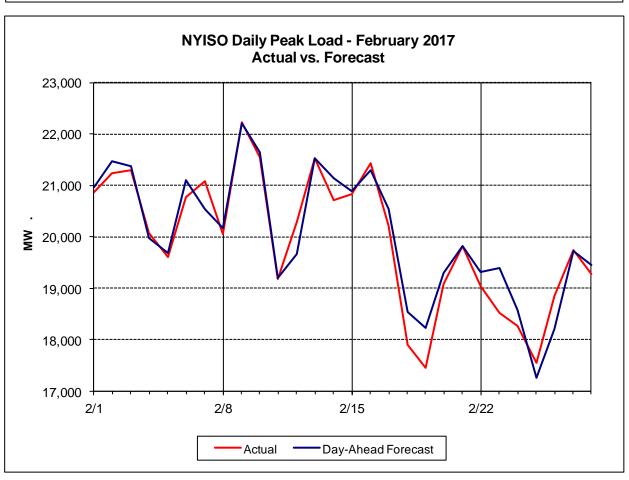


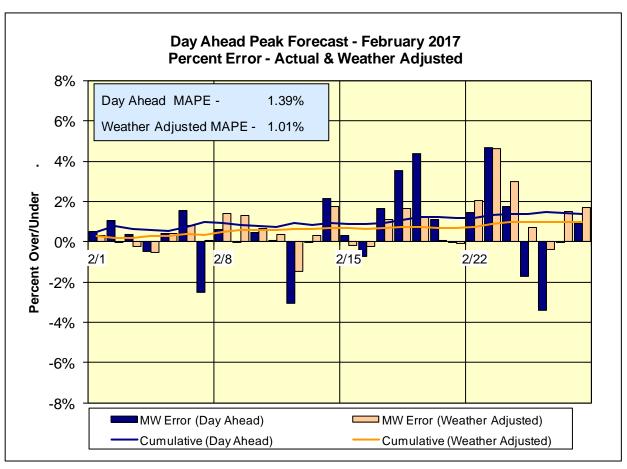
#### **Billing Codes for Chart C**

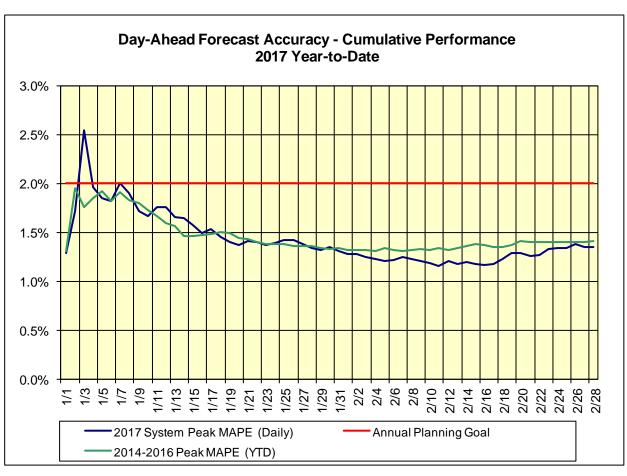
Chart - C Category Name	<b>Billing Code</b>	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost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

Market Mitigation and Analysis Prepared: 3/8/2017 10:14 AM









# Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – February 2017

Filing Date	Filing Summary	Docket	Order Date	Order Summary
03/30/2015 04/20/2015	03/30/2015 NYISO request for clarification of 03/19/2015 order re: whether treatment of rebates/benefits from state programs received by SCRs is applicable to Mitigated Capacity Zones other than NYC 04/20/2015 NYISO compliance filing re: provide that the change in the Offer Floor calculation is only applicable to SCRs in NYC	EL07-39-007 EL07-39-008 ER08-695-005 ER08-695-006 ER10-2371-001 ER10-2371-002 ER10-2371-003	02/03/2017	FERC order dismissed as moot the requests for rehearing and clarification and dismissed as moot NYISO's compliance filing, with no substitute tariff filing required
06/24/2016 07/21/2016	06/24/2016 NYPSC, et. al. complaint v. NYISO re: application of buyer-side market power mitigation rules limits Special Case Resource participation in the ICAP market 07/21/2016 NYISO filing re: answer to the complaint	EL16-92-000	02/03/2017	FERC order granted the complaint in part and denied in part, and required NYISO to make a compliance filing within 30 days (i.e., 03/06/2017) to exempt prospective SCRs from the buyer-side market power mitigation rules
12/16/2016	NYISO filing on behalf of Niagara Mohawk Power Corporation re: Cost Reimbursement Agreement (SA 2324) between Niagara Mohawk and Erie Boulevard Hydropower	ER15-566-000	02/10/2017	FERC letter order accepted filing effective 10/18/2016, as requested
01/11/2017	NYISO filing re: explanation of tariff compliance with Order No. 825: Settlement Intervals and Shortage Pricing in Markets Operated by RTOs and ISOs	RM15-24-000 ER17-782-000	02/24/2017	FERC letter order accepted compliance filing
01/23/2017	NYISO 205 filing re: interconnection process improvements related to regulatory milestone requirements	ER17-830-000	02/21/2017	FERC letter order accepted filing effective 02/22/2017, as requested
02/02/2017	NYISO compliance filing re: notice of the effective date for the ICAP Demand Curve reset process revisons	ER16-1751-001		
02/02/2017	NYISO filing on behalf of NYPA re: tariff records reflecting the approved settlement of NYPA's formula rate template and formula rate implementation protocols	ER16-835-001		
02/03/2017	NYISO compliance filing re: effective date designation for UDR related tariff revisions	ER16-959-001		
02/06/2017	NYISO compliance filing re: removal of the proposed one- year transition mechanism for the Locality Exchange factor for capacity exports	ER17-446-001		

02/06/2017	NYISO 205 filing re: amend MST 23.4.5.5 governing the circumstances under which a Market Party will be deemed to be a Pivotal Supplier in a Mitigated Capacity Zone	ER17-941-000		
02/06/2017	IRC filing with DOE re: comments on the US DOE's proposed procedural regulations concerning the Secretary of Energy's issuance of an emergency order following the declaration of a Grid Security Emergency by the President	RIN 1901-AB40		
02/10/2017	NYISO filing re: amendment to its 02/06/2017 compliance filing concerning the removal of the proposed one-year transition mechanism for the Locality Exchange factor for capacity exports	ER17-446-001		
02/10/2017	IRC filing re: request for extension of time to file NOPR comments concerning reforms to the <i>pro forma</i> large generator interconnection procedures and <i>pro forma</i> large generator interconnection agreement	RM17-8-000	02/23/2017	FERC notice extended the comment submission deadline up to and including 04/13/2017
02/13/2017	NYISO NOPR comments re: electric storage participation in markets operated by RTOs and ISOs	RM16-23-000 AD16-20-000		
02/13/2017	IRC NOPR comments re: electric storage participation in markets operated by RTOs and ISOs	RM16-23-000 AD16-20-000		
02/13/2017	NYISO motion to intervene and protest re: NRG Curtailment Solutions request for tariff waiver concerning penalties on responsible interface parties who enroll ineligible special case resources and fail to deliver their full UCAP sold in the ICAP auctions	ER17-834-000		
02/14/2017	NYISO compliance filing re: notice of effective date for revised fixed block unit pricing logic	ER17-549-001		
02/15/2017	NYISO compliance filing re: to remove inclusion of SCR emissions controls in the peaking plant design for the NYCA ICAP Demand Curve	ER17-386-001		
02/15/2017	NYISO confidential filing to the NYPSC re: three-month report for the period ending 01/31/2017 related to generators committed to ensure compliance with reliability requirements	PSC Matter No. 10-02007		
02/15/2017	NYISO filing on behalf of Niagara Mohawk Power Corporation re: amendment filing to correct typographical errors in the 01/30/2017 filing of revisions to the transmission service charge formula rate template	ER17-884-001		

02/17/2017	NYISO confidential filing to the NYPSC re: Quarterly Project Tracking Report charting the current development status of proposed generation and transmission projects	PSC Matter No. 10-02007	
02/17/2017	NYISO compliance filing re: exempt new Special Case Resources from the buyer-side market power mitigation rules	ER17-996-000	
02/22/2017	NYISO 205 filing on behalf of NYPA re: updated depreciation rates to be used in the calculation of NYPA's transmission service charges under Attachment H of the NYISO OATT	ER17-1010-000	
02/28/2017	NYISO comment filing re: NOPR to revise regulations to require each RTO and ISO to incorporate market rules that meet certain requirements when pricing fast-start resources	RM17-3-000	