

# **Monthly Report**

# September 2017



# **Table of Contents**

- Operations Performance Metrics Report
- Market Operation's Report
- Daily Loads
- Regulatory Filings

# Operations Performance Metrics Monthly Report



#### September 2017 Report

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



## Table of Contents

- Highlights
  - Operations Performance

#### • Reliability Performance Metrics

- Alert State Declarations
- Major Emergency State Declarations
- IROL Exceedance Times
- Balancing Area Control Performance
- Reserve Activations
- Disturbance Recovery Times
- Load Forecasting Performance
- Wind Forecasting Performance
- Wind Performance and Curtailments
- Lake Erie Circulation and ISO Schedules

#### Broader Regional Market Performance Metrics

- PAR Interconnection Congestion Coordination Monthly Value
- PAR Interconnection Congestion Coordination Daily Value
- Regional Generation Congestion Coordination Monthly Value
- Regional Generation Congestion Coordination Daily Value
- Regional RT Scheduling PJM Monthly Value
- Regional RT Scheduling PJM Daily Value

#### Market Performance Metrics

- Monthly Statewide Uplift Components and Rate
- RTM Congestion Residuals Monthly Trend
- RTM Congestion Residuals Daily Costs
- RTM Congestion Residuals Event Summary
- RTM Congestion Residuals Cost Categories
- DAM Congestion Residuals Monthly Trend
- DAM Congestion Residuals Daily Costs
- DAM Congestion Residuals Cost Categories
- NYCA Unit Uplift Components Monthly Trend
- NYCA Unit Uplift Components Daily Costs
- Local Reliability Costs Monthly Trend & Commitment Hours
- TCC Monthly Clearing Price with DAM Congestion
- ICAP Spot Market Clearing Price
- UCAP Awards



#### **September 2017 Operations Performance Highlights**

- Peak load of 27,442 MW occurred on 09/27/2017 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 0 hours of Thunder Storm Alerts were declared however, on 09/07/2017 and 09/08/2017, the NYISO declared Alert states and reduced power flows to 90% of ratings due to a level K-9 intensity solar storm.
- 0 hours of NERC TLR level 3 curtailment
- On 09/14/2017 the Ramapo PAR 3500 was returned to service. The Ramapo PAR scheduling ratio is now 32% with both PARs in service, as detailed in the *NY-NJ PAR interchange & OBF* web posting.
- On 09/05/2017 the Dolson Ave. station was cut in. It replaces the Coopers Corners-Rock Tavern 345kV (CCRT-42) line with Coopers Corners-Dolson Ave. 345 (CCDA42) line and the Dolson Ave.-Rock Tavern 345kV (DART44) line
- NYISO and PJM have agreed to reduce the initial Operational Base Flow (OBF), which is applied to the ABC and JK Interfaces, from 400 MW to zero MW as of 10/31/2019.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.35	\$9.12
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.18)	(\$1.01)
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.21)	(\$0.87)
Total NY Savings	(\$0.04)	\$7.24
	<b>*</b> 0.22	<b>*</b> 2.20
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.23	\$2.39
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.19	\$0.95
Total Regional Savings	\$0.42	\$3.34

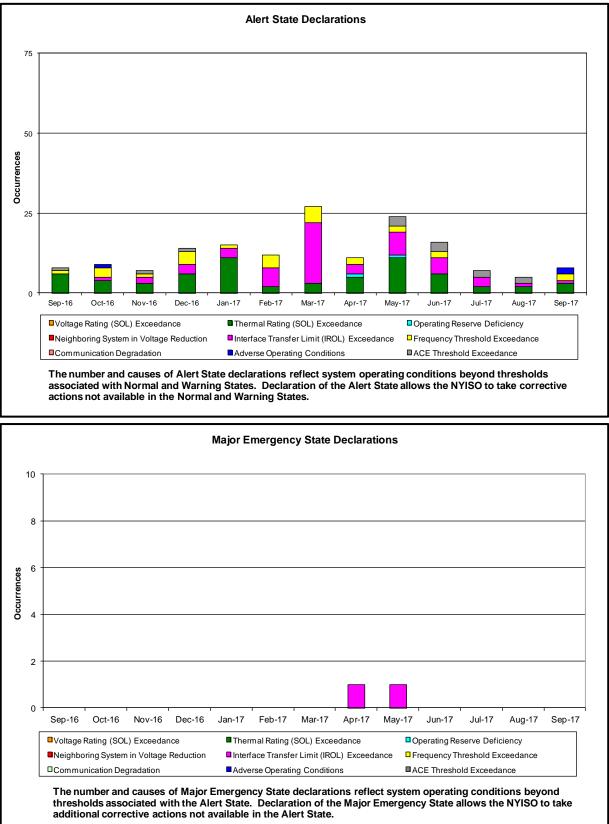
- Statewide uplift cost monthly average was (\$0.50)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
October 2017 Spot Price	\$1.84	\$9.47	\$9.55	\$6.60
September 2017 Spot Price	\$2.18	\$9.90	\$10.19	\$6.59
Delta	(\$0.34)	(\$0.43)	(\$0.64)	\$0.01

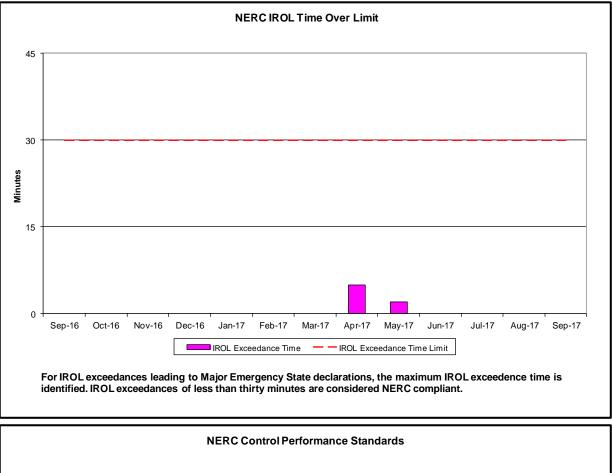
- NYC Price decreases by \$0.64 due to an increase in SCRs and a decrease in unoffered MW
- LHV Price decreases by \$0.43 due to an increase in SCRs and a decrease in unoffered MW.
- NYCA Price decreases by \$0.34 due to reduced Imports & Exports, an increase in SCRs and a decrease in unoffered MW.

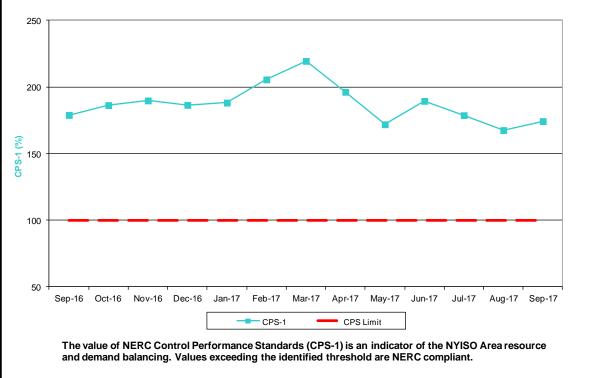


#### • Reliability Performance Metrics

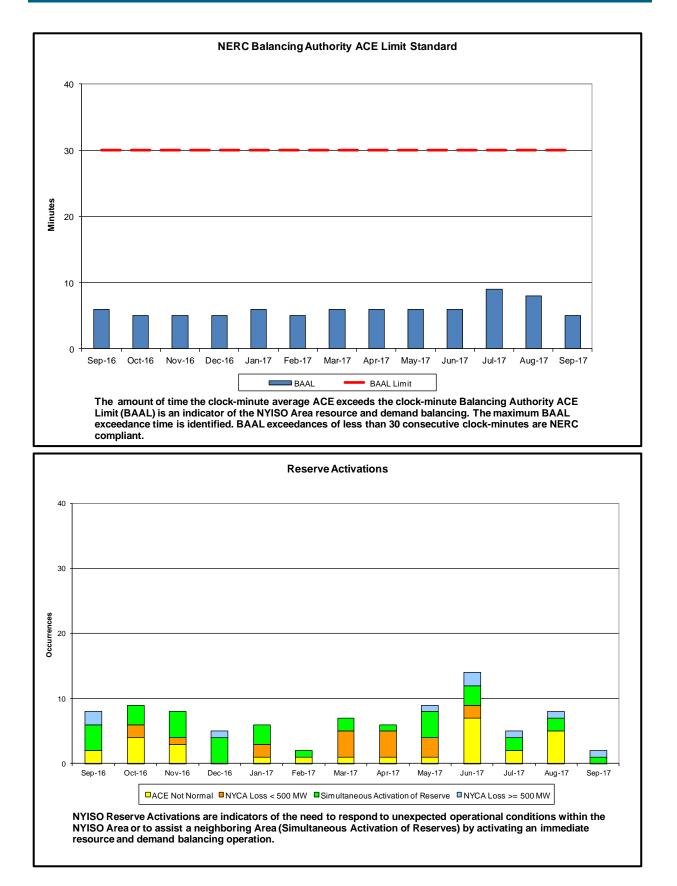




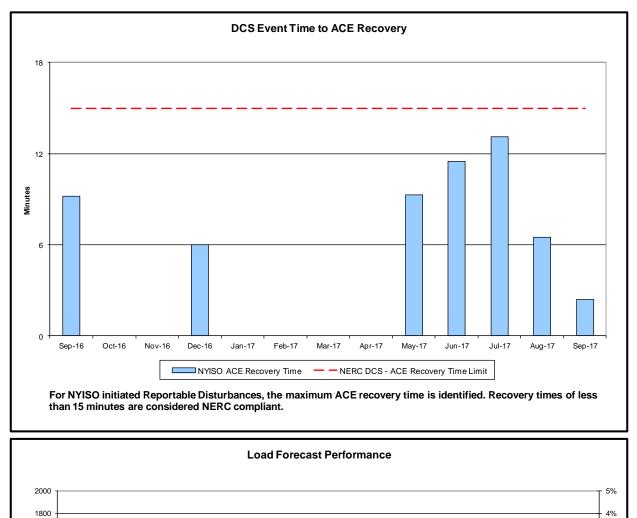


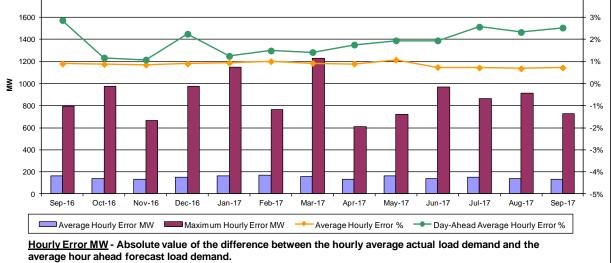








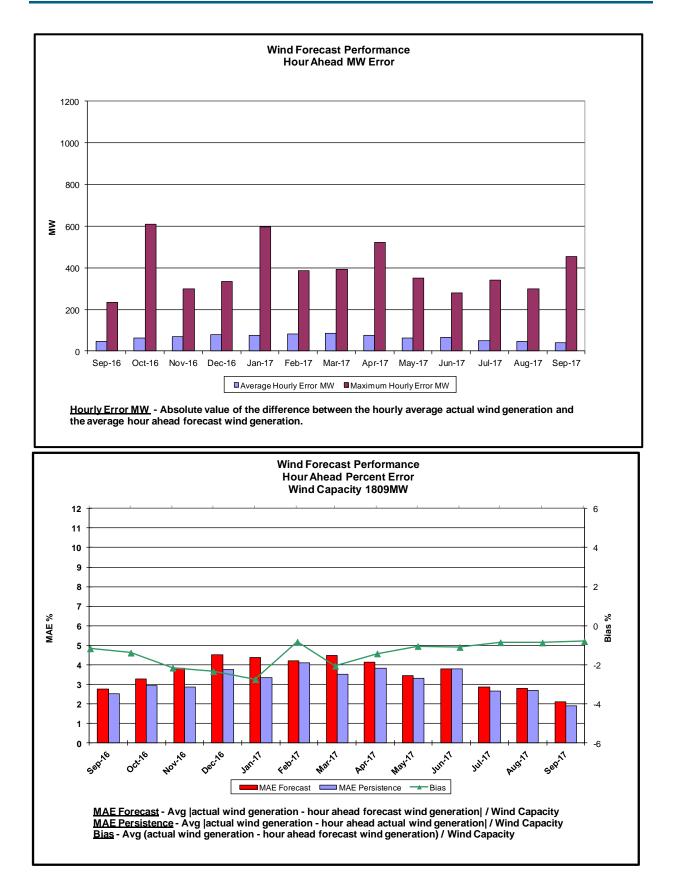




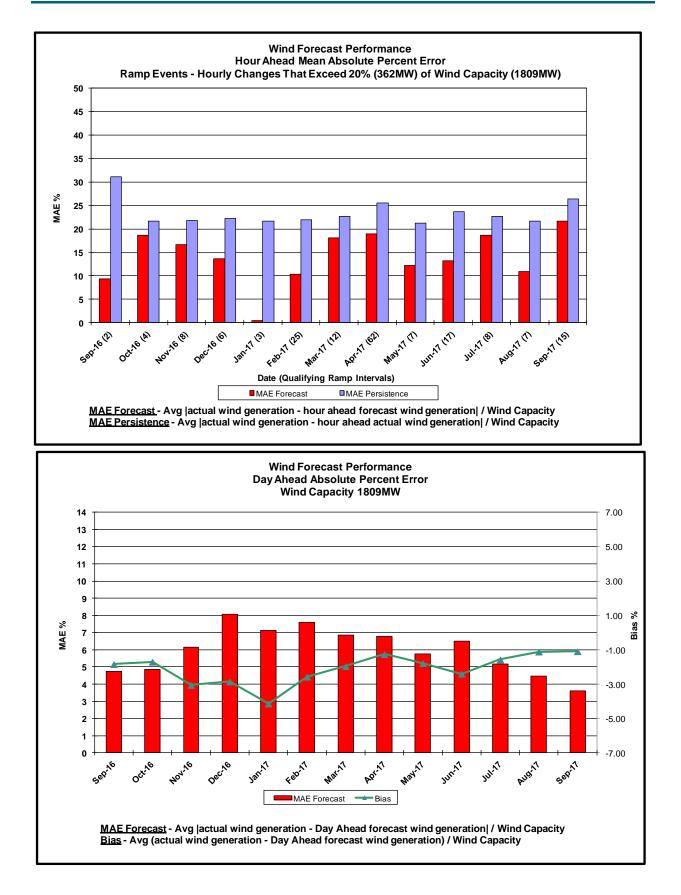
Average Hourly Error % - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

Day-Ahead Average Hourly Error % - 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.

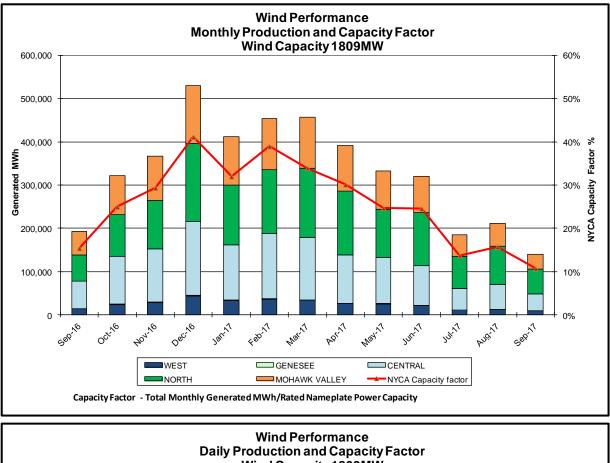


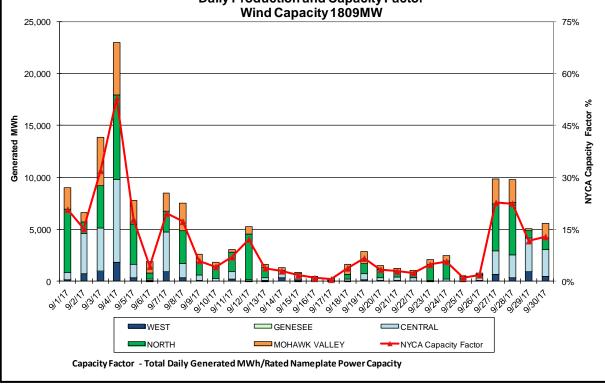




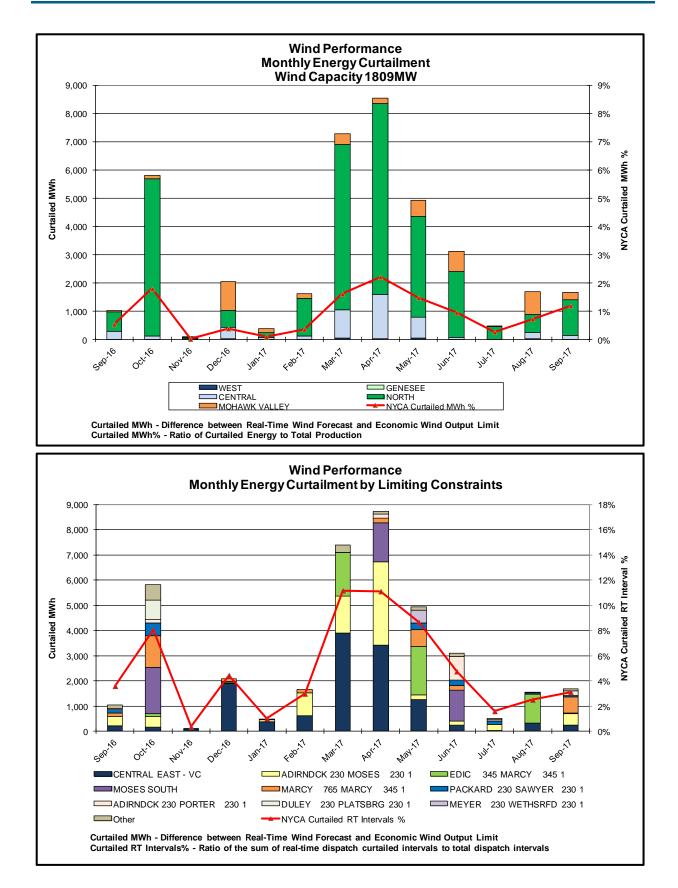




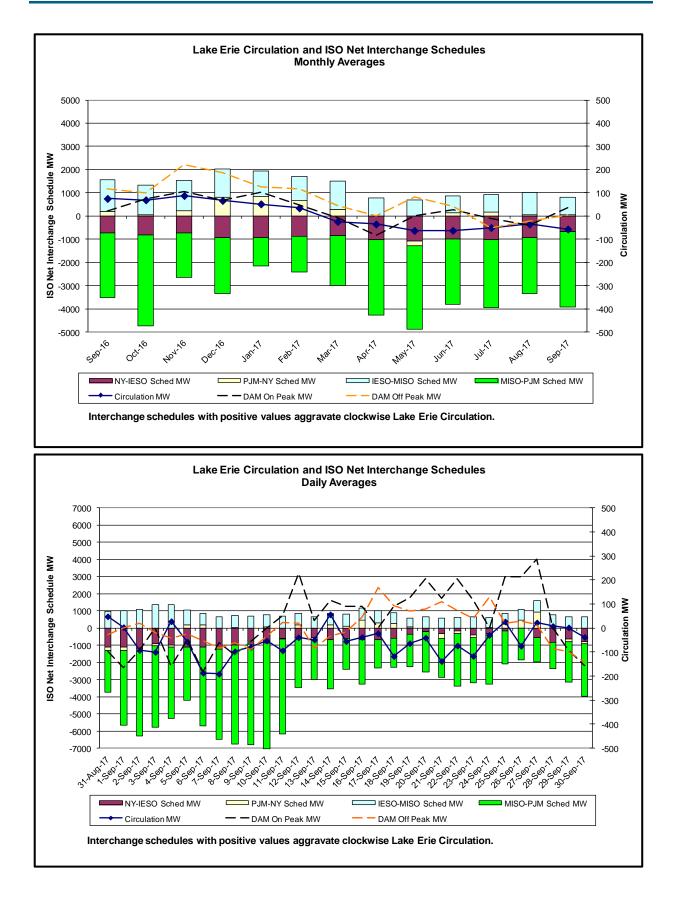




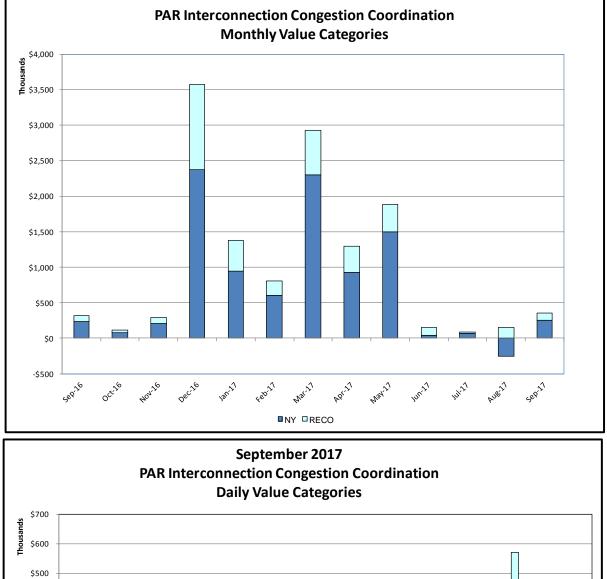




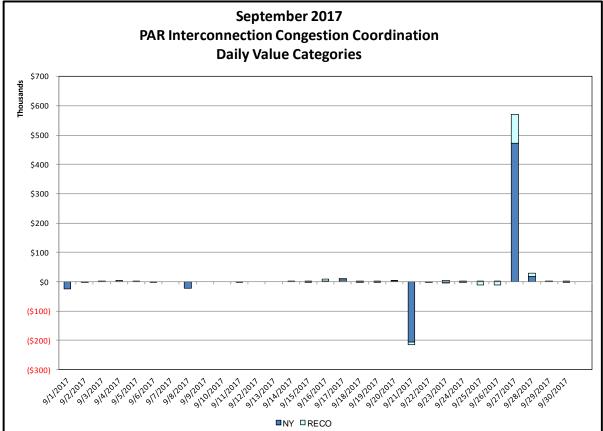








#### **Broader Regional Market Performance Metrics**





#### PAR Interconnection Congestion Coordination

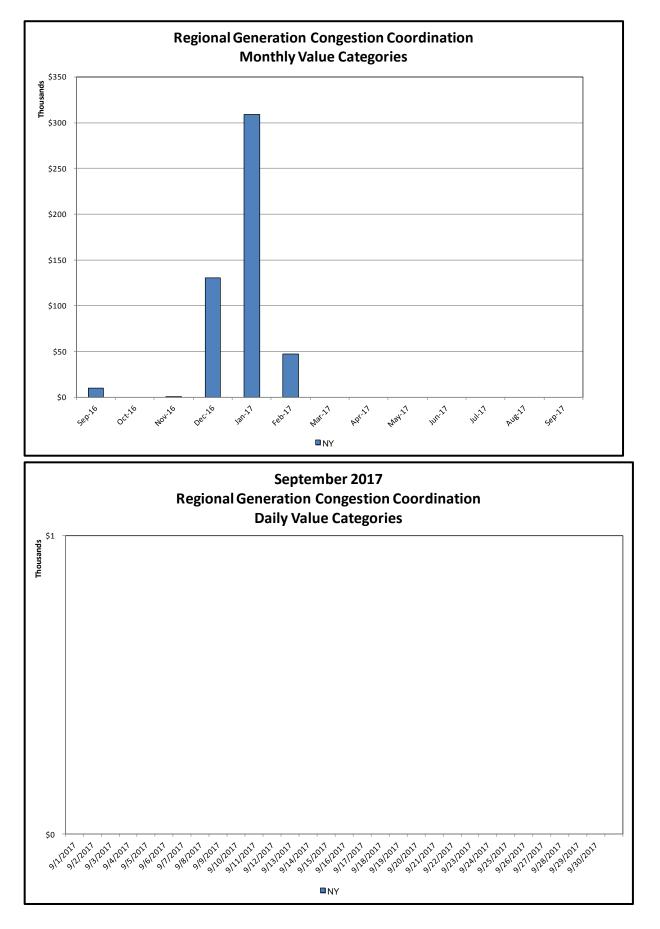
 Category
 Description

 NY
 Represents the value experiencing congered to the Interpretent of any set of any

Represents the value NY realizes from Market-to-Market PAR 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 Interconnection PAR Target levels, excluding RECO on the Ramapo PARs). 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.







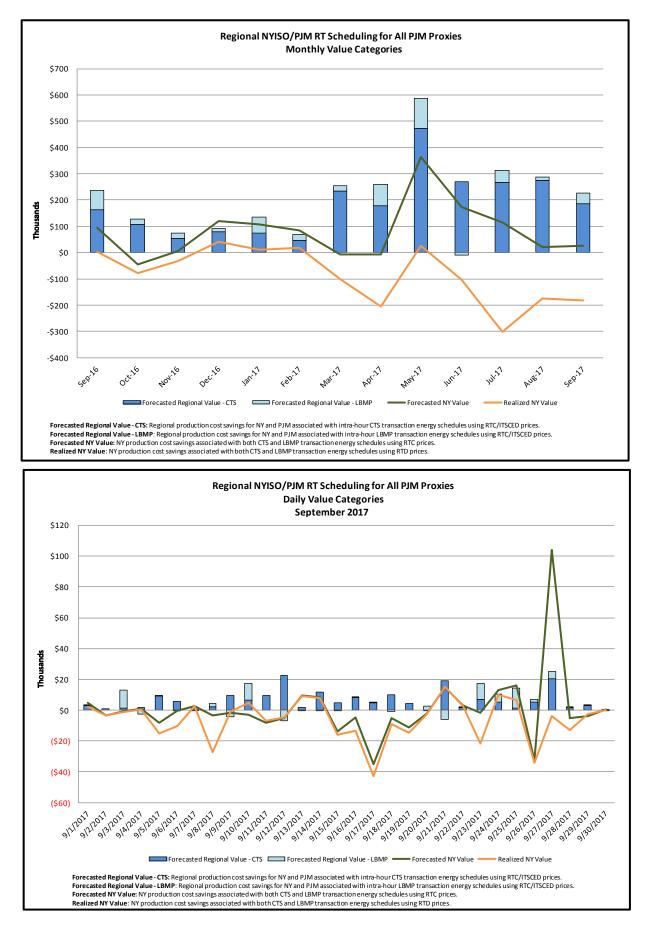
#### **Regional Generation Congestion Coordination**

<u>Category</u> NY

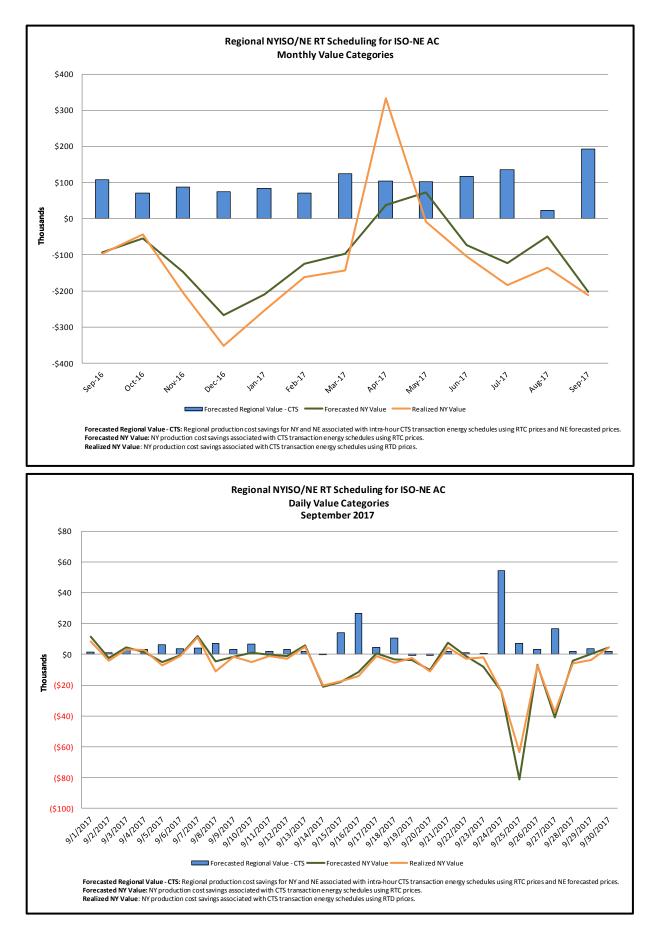
#### **Description**

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



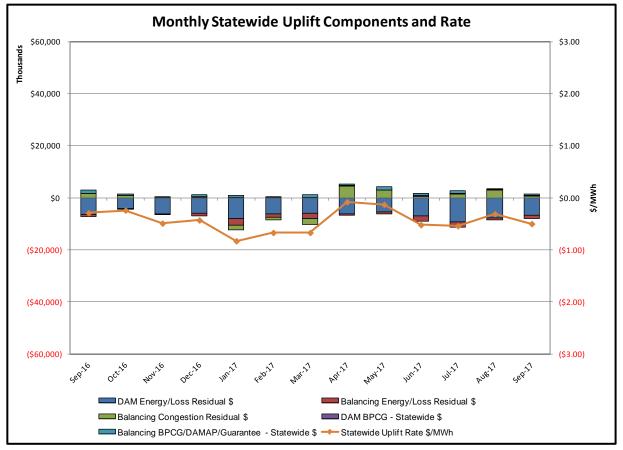




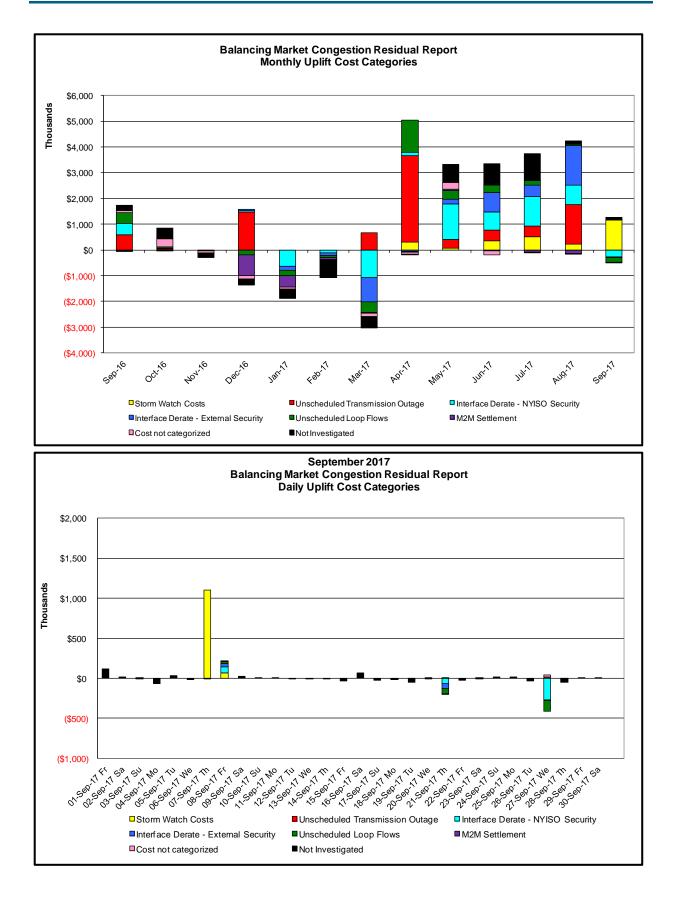




#### Market Performance Metrics









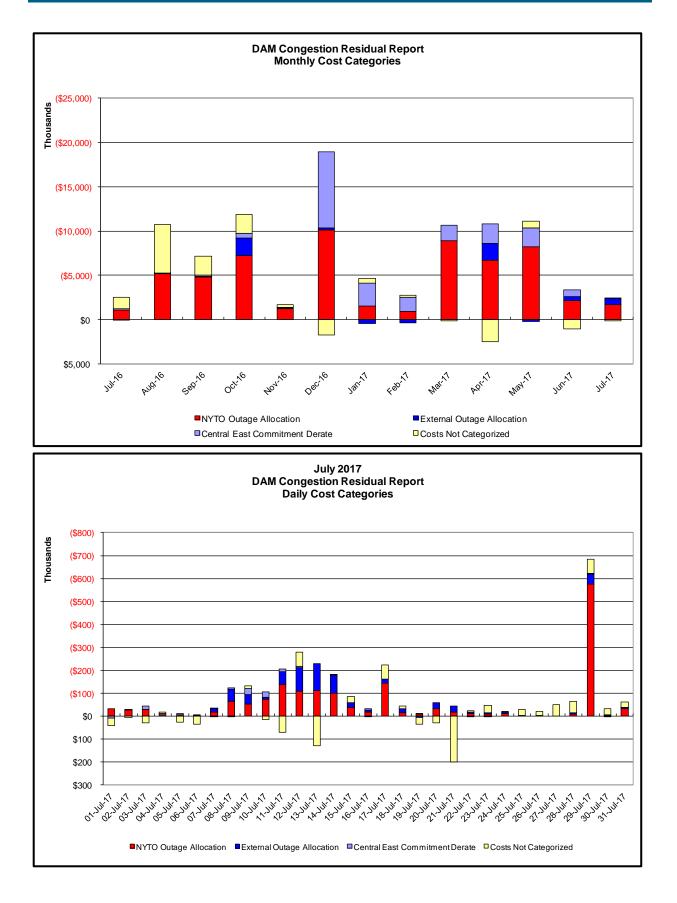
Day's in	vestigated in Septembe	er: 7,8,21,27	
Event		Hours	Description
	9/7/2017	21-23	Thunderstorm Alert
	9/8/2017	2,3,10	Thunderstorm Alert
	9/8/2017	8,12,15-17	Derate Marcy 765/345kV (#AT1) for I/o TWR:MOSES MA1 & MA2
	9/8/2017	8,12	NYCA DNI RAMP Limit
	9/8/2017	3,12	NE_AC DNI Ramp Limit
	9/8/2017		PJM AC-NY Scheduling Limit
	9/8/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Packard
	9/21/2017		Derate Motthaven-Dunwoodie 345kV (#71)
	9/21/2017		Uprate Scriba-Volney 345kV (#20) for I/o Scriba-Volney 345kV (#21)
	9/21/2017		Uprate E179th Street-Hellgate 138kV (#15055)
	9/21/2017	/ -	NYCA DNI RAMP Limit
	9/21/2017		HQ_CHAT Scheduling Limit
	9/21/2017		NE-NY Scheduling Limit
	9/21/2017		NE_AC DNI Ramp Limit
	9/21/2017		PJM AC-NY Scheduling Limit
	9/21/2017	,	Lake Erie Circulation, DAM-RTM exceeds +/-125MW: West Central
	9/27/2017		Forced outage of Marcy South Series Compensation
	9/27/2017		Forced outage East Garden City-Newbridge 138kV (#467)
	9/27/2017	-•	NYCA DNI RAMP Limit
	9/27/2017	19,21	Uprate Central East
	9/27/2017	19	Uprate Freshkills 345kV/138kV Bank (#TA1)
	9/27/2017	22,23	Uprate Malone-Willis 115kV (1-910) for I/o TWR:MOSES MW2 & MAL4
	9/27/2017	17,19,22,23	Uprate Scriba-Volney 345kV (#20) for I/o Scriba-Volney 345kV (#21)
	9/27/2017	11	Derate Dunwoodie-Sprainbrook 345kV (#W75) for I/o TWR:PVLLE F38&F39&Y86&Y87&BK1
	9/27/2017	22-23	Uprate Leeds-Pleasant Valley 345kV (#92) for I/o Athens-Pleasant Valley 345kV (#91)
	9/27/2017	12,17,19,22,23	Uprate Scriba-Volney 345kV (#20) for I/o Scriba-Volney 345kV (#21)
	9/27/2017	15	NE_AC DNI Ramp Limit
	9/27/2017	12,19	Lake Erie Circulation, DAM-RTM exceeds +/-125MW: Packard-Sawyer
	9/27/2017	19,21	Lake Erie Circulation, DAM-RTM exceeds +/-125MW: Central-East

<u>Real-Time Balan</u>	cing Market Con	gestion Residual (Uplift Cost) Cate	gories
<u>Category</u> Storm Watch	<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	<u>Event Examples</u> TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Lake Erie Loop Flows exceeding +/- 125 MW
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates	
Monthly Balancing Market Congestio	on Report Assumpti	ons/Notes	
1) Storm Watch Costs are identified as da	ily total uplift costs		

2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.

3) Uplift costs associated with multiple event types are apportioned equally by hour

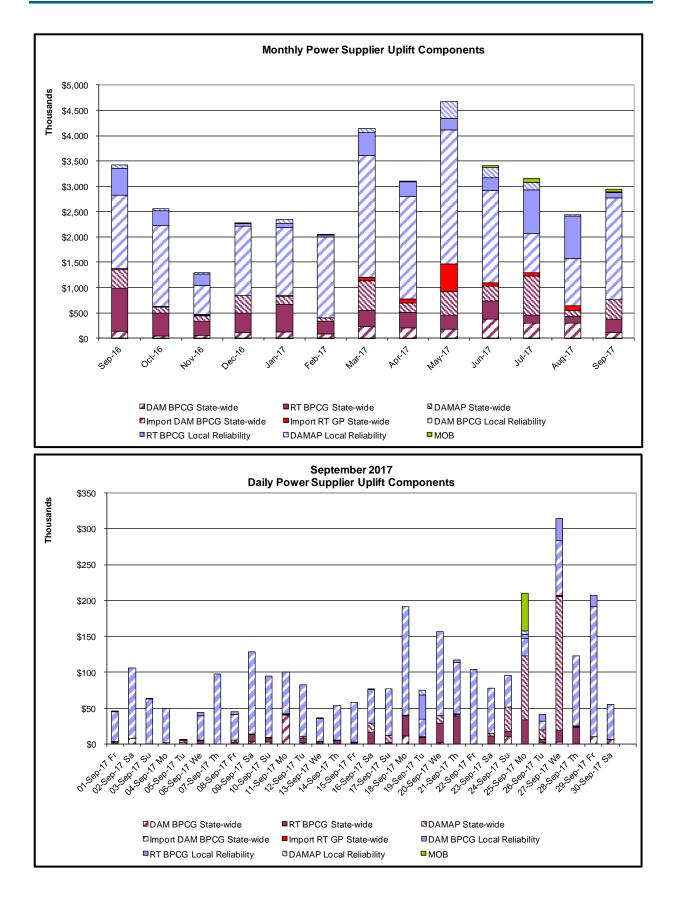




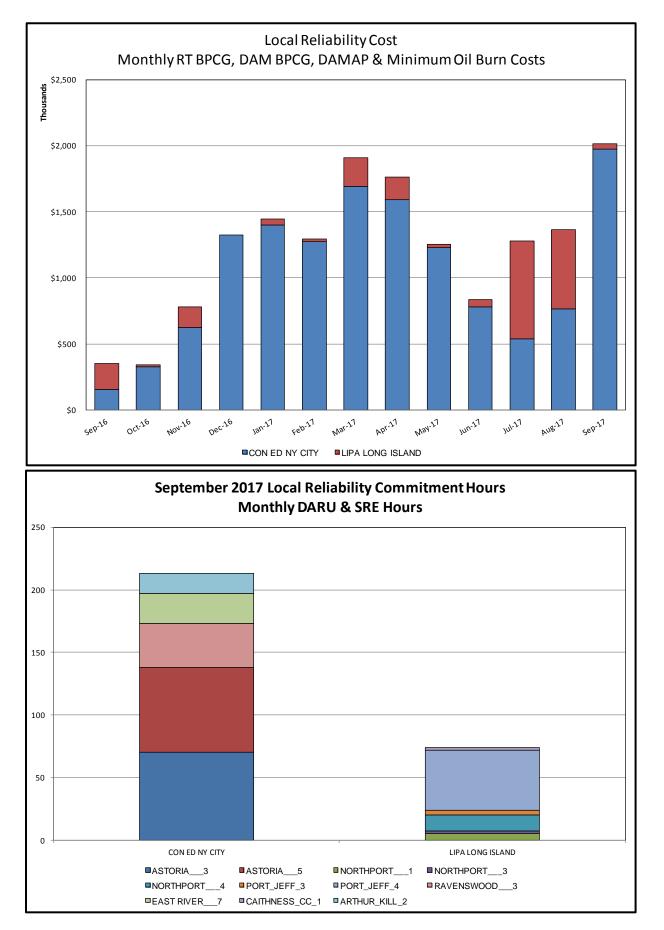


Day	Ahead Market Co	ngestion Residual Categories	
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	<u>Event Examples</u> DAM scheduled outage for equipment modeled in- service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

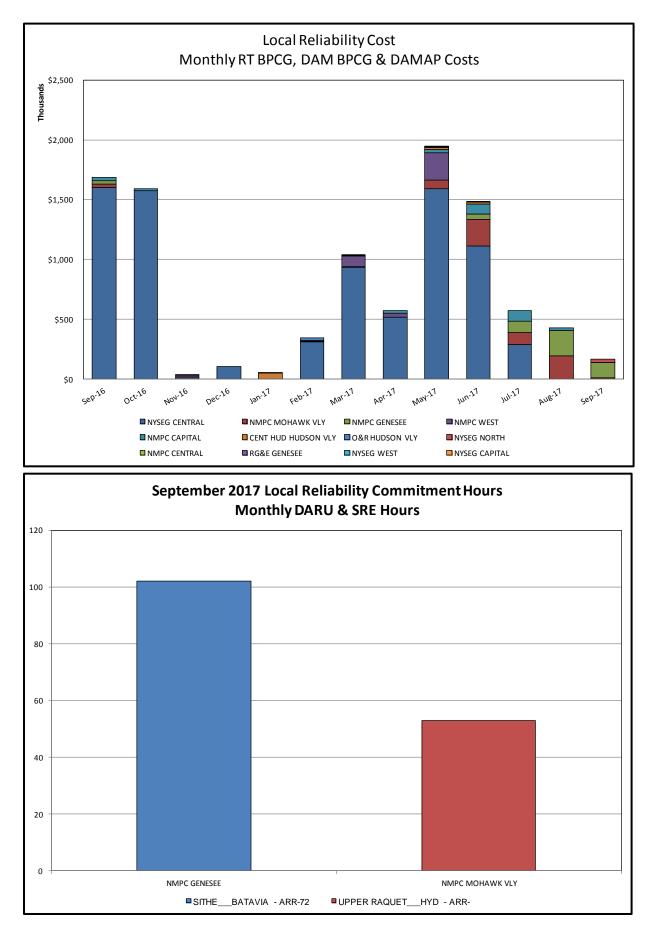




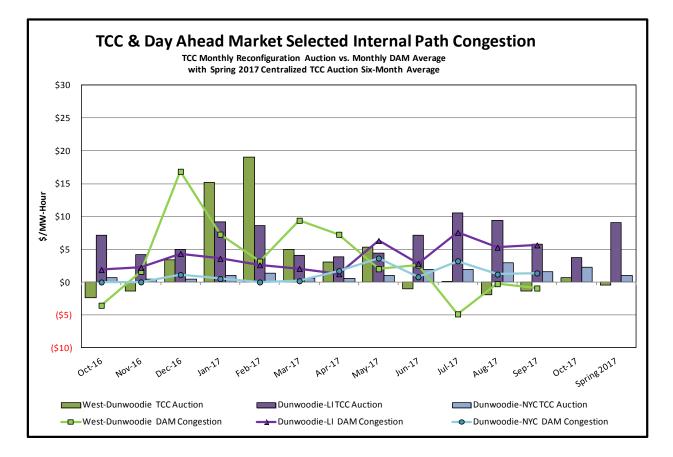


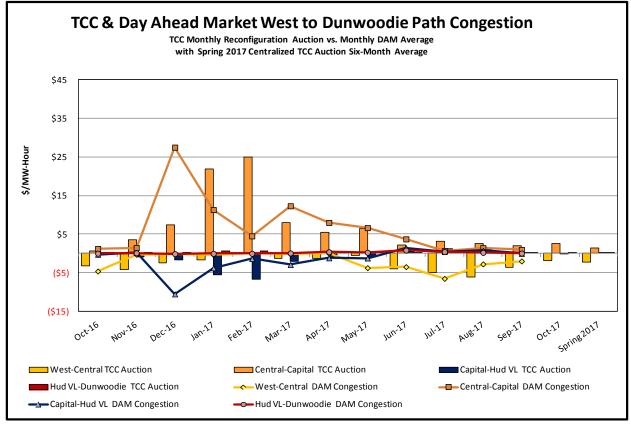




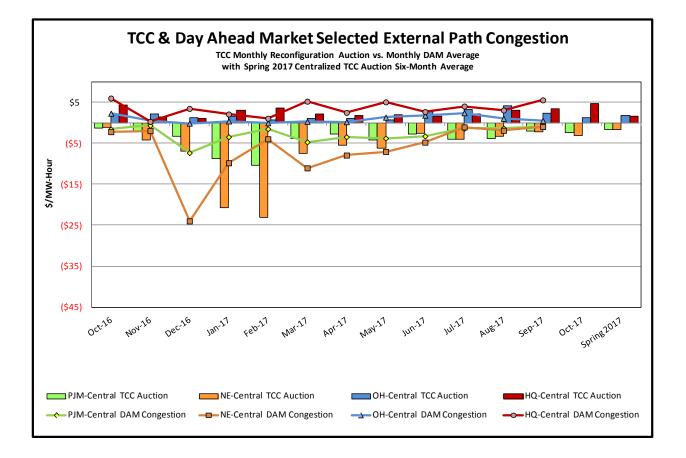




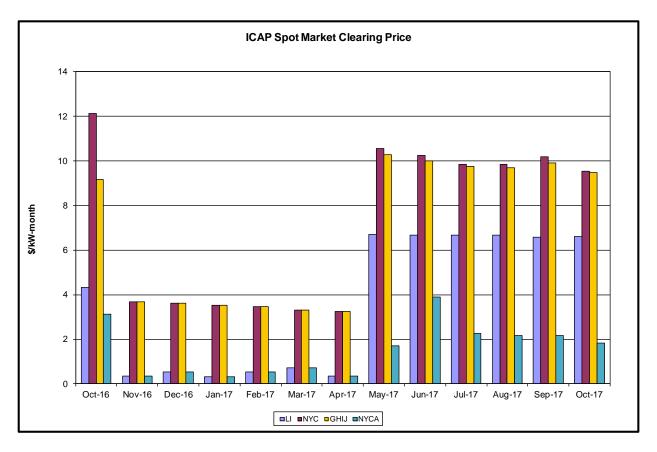


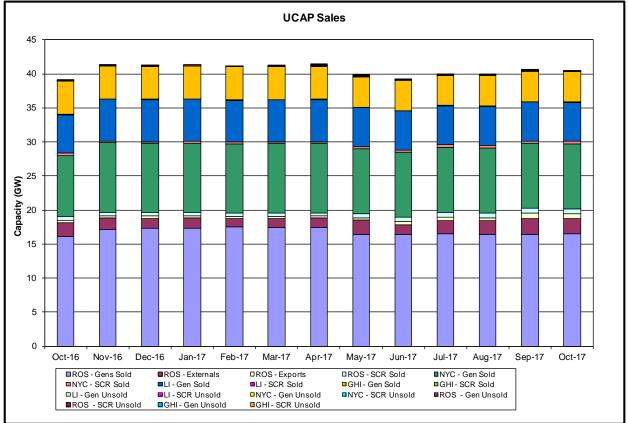






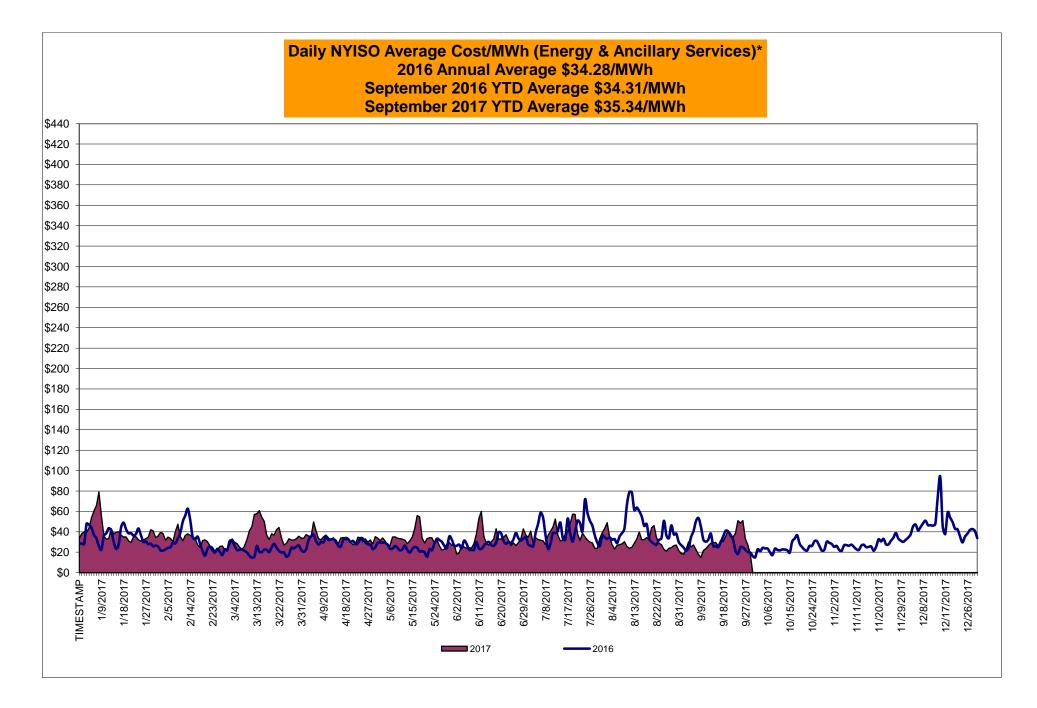






# Market Performance Highlights September 2017

- LBMP for September is \$29.57/MWh; lower than \$30.57/MWh in August 2017 and \$30.89/MWh in September 2016.
  - Day Ahead Load Weighted LBMPs are lower and Real Time Load Weighted LBMPs are higher compared to August.
- September 2017 average year-to-date monthly cost of \$35.34/MWh is a 3% increase from \$34.31/MWh in September 2016.
- Average daily sendout is 437 GWh/day in September; lower than 477 GWh/day in August 2017 and 458 GWh/day in September 2016.
- Natural gas prices and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.27/MMBtu, up from \$2.16/MMBtu in August.
  - Natural gas prices are up 72.2% year-over-year.
  - Jet Kerosene Gulf Coast was \$13.40/MMBtu, up from \$11.53/MMBtu in August.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$12.80/MMBtu, up from \$11.65/MMBtu in August.
  - Distillate prices are up 32.3% year-over-year.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.34)/MWh; lower than (\$0.19)/MWh in August.
    - Local Reliability Share is \$0.16/MWh, higher than \$0.12/MWh in August.
    - Statewide Share is (\$0.50)/MWh, lower than (\$0.31)/MWh in August.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than August.



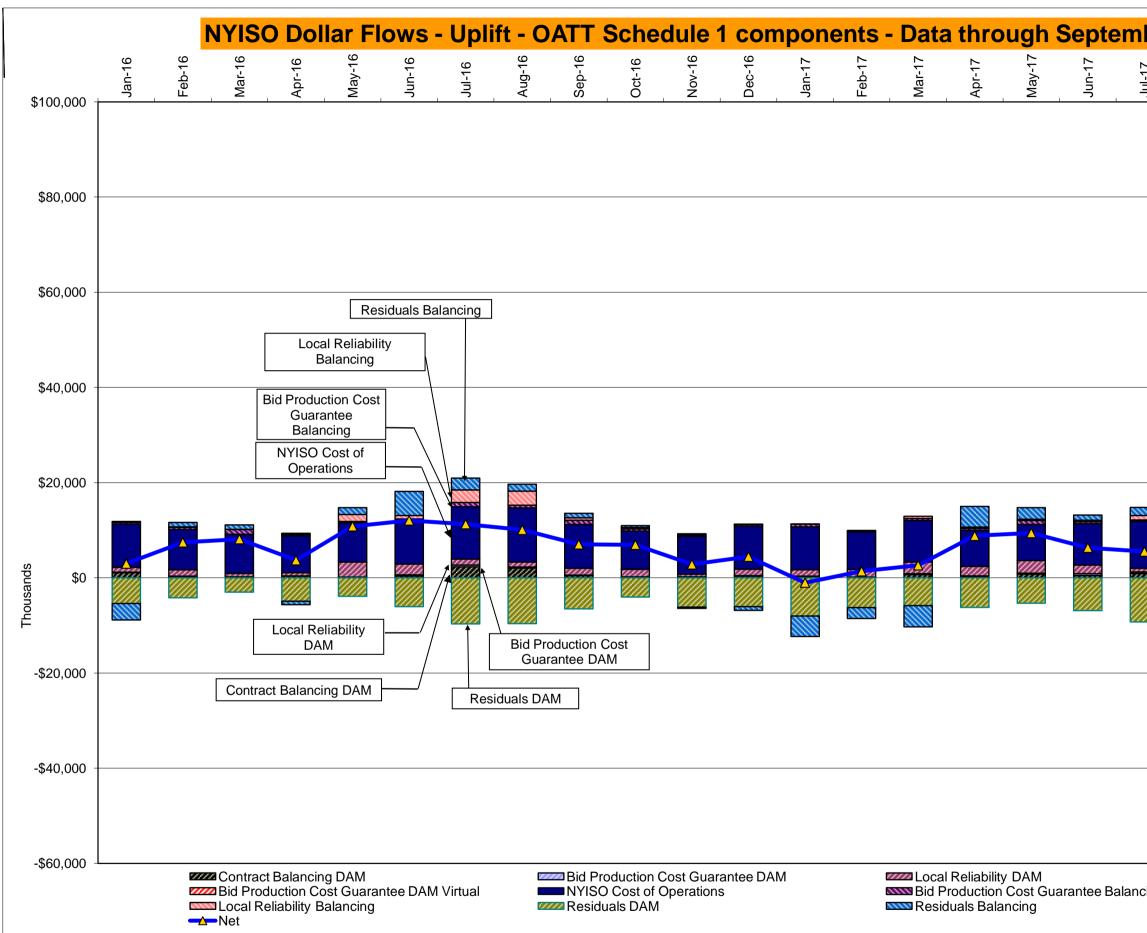
\* Excludes ICAP payments.

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

2017	<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
LBMP	40.07	30.95	34.97	31.06	31.74	31.76	35.84	30.57	29.57			
NTAC	0.66	1.11	0.86	1.05	0.79	0.62	0.87	0.59	0.62			
Reserve	0.70	0.67	0.74	0.70	0.61	0.55	0.48	0.44	0.47			
Regulation	0.14	0.12	0.13	0.17	0.16	0.13	0.10	0.10	0.11			
NYISO Cost of Operations	0.65	0.65	0.65	0.65	0.62	0.63	0.63	0.63	0.63			
FERC Fee Recovery	0.09	0.10	0.10	0.12	0.10	0.09	0.07	0.08	0.09			
Uplift	(0.73)	(0.54)	(0.46)	0.12	0.10	(0.37)	(0.43)	(0.19)	(0.34)			
Uplift: Local Reliability Share	0.10 <sup>´</sup>	0.13	0.21	0.20	0.24	0.15	0.11	0.12	0.16			
Uplift: Statewide Share	(0.83)	(0.67)	(0.67)	(0.08)	(0.13)	(0.52)	(0.54)	(0.31)	(0.50)			
Voltage Support and Black Start	0.37 <sup>´</sup>	0.37	0.38	0.38	0.38	0.38 <sup>´</sup>	0.38	0.38	0.38			
Avg Monthly Cost	41.96	33.44	37.38	34.26	34.52	33.80	37.94	32.60	31.54			
Avg montiny cost	41.00	00.44	07.00	04.20	04.02	00.00	07.04	02.00	01.04			
Avg YTD Cost	41.96	38.02	37.81	37.05	36.54	36.01	36.35	35.80	35.34			
TSA \$ per NYC MWh	0.00	0.00	0.00	0.08	0.12	0.56	0.42	0.23	0.00			
2016	January	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
LBMP	34.29	28.71	20.66	27.96	23.31	27.35	40.01	42.99	<u>30.89</u>	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	43.90 0.97
Reserve	0.39	0.78	0.02	0.87	0.71	0.59	0.78	0.54	0.69	0.80	0.79	0.63
Regulation	0.17	0.73	0.73	0.87	0.71	0.59	0.07	0.08	0.09	0.17	0.08	0.03
NYISO Cost of Operations	0.12	0.12	0.12	0.12	0.11	0.12	0.10	0.10	0.10	0.13	0.13	0.17
•												
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	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	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	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)	0.20	(0.12)
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

\* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 10/6/2017 10:38 AM

As of Jan. 2016, the annual FERC fee is recovered separately from Cost of Ops.



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.

be	r 30, 2	2017				
Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	
7	4		0	۷.,		
cing						

### NYISO Markets Transactions

												<b>D</b>
2017	<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>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695			
DAM LSE Internal LBMP Energy Sales	57%	57%	55%	54%	58%	60%	62%	61%	57%			
DAM External TC LBMP Energy Sales	2%	2%	1%	1%	1%	1%	1%	1%	1%			
DAM Bilateral - Internal Bilaterals	32%	32%	34%	35%	33%	31%	29%	29%	32%			
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	4%	5%	4%	5%	5%			
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%			
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	3%	3%	4%			
Balancing Energy Market MWh	-256,448	-407,284	-509,053	-466,426	-666,048	-564,312	-747,473	-853,898	-633,990			
Balancing Energy LSE Internal LBMP Energy Sales	-157%	-132%	-148%	-115%	-120%	-114%	-100%	-87%	-76%			
Balancing Energy External TC LBMP Energy Sales	64%	39%	44%	22%	28%	23%	18%	13%	12%			
Balancing Energy Bilateral - Internal Bilaterals	15%	8%	12%	5%	1%	4%	3%	2%	3%			
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	4%	0%	0%	0%	0%	0%	0%	0%			
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	10%	7%	5%	4%	3%	3%	1%	1%	1%			
Balancing Energy Bilateral - Wheel Through Bilaterals	-32%	-26%	-13%	-15%	-12%	-16%	-22%	-29%	-40%			
Transactions Summary												
LBMP	58%	57%	55%	54%	58%	60%	62%	61%	58%			
Internal Bilaterals	33%	34%	36%	37%	34%	32%	30%	31%	33%			
Import Bilaterals	5%	5%	5%	6%	4%	5%	5%	5%	5%			
Export Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%	2%			
Wheels Through	2%	2%	2%	2%	2%	1%	2%	2%	2%			
Market Share of Total Load_												
Day Ahead Market	101.8%	103.3%	103.8%	104.0%	105.4%	104.1%	104.7%	105.7%	104.7%			
Balancing Energy +	-1.8%	-3.3%	-3.8%	-4.0%	-5.4%	-4.1%	-4.7%	-5.7%	-4.7%			
Total MWH	13,878,571	12,157,922	13,474,812	11,595,049	12,300,933	13,841,868	15,758,328	15,095,029	13,466,705			
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437			
2016	lanuary	Fobruary	March	April	Mov	luno	lukz	August	Sontombor	Octobor	Novombor	Docombor
2016 Day Alcord Market MM/h	January	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	October	November	December
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	14,760,915 54% 4% 34% 5% 2%	13,614,754 55% 2% 34% 5% 1%	13,413,781 55% 1% 35% 5% 2%	12,496,141 57% 5% 28% 6% 2%	12,959,886 58% 2% 31% 5% 2%	14,095,904 60% 1% 30% 5% 2%	16,950,819 64% 1% 28% 4% 1%	17,413,898 63% 3% 27% 4% 1%	14,563,318 60% 3% 30% 5% 1%	13,014,354 56% 2% 33% 5% 2%	12,770,775 56% 2% 32% 5% 2%	14,245,185 58% 3% 31% 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	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% 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% 2%	12,770,775 56% 2% 32% 5% 2% 3%	14,245,185 58% 3% 31% 5% 2% 2%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWh	14,760,915 54% 4% 34% 5% 2% 2% 2% -522,919	13,614,754 55% 2% 34% 5% 1% 2% -580,900	13,413,781 55% 1% 35% 5% 2% 2% 2% -741,701	12,496,141 57% 5% 28% 6% 2% 2% 2% -303,313	12,959,886 58% 2% 31% 5% 2% 2% 2% -180,848	14,095,904 60% 1% 30% 5% 2% 2% 2% -143,015	16,950,819 64% 1% 28% 4% 1% 2% -86,025	17,413,898 63% 3% 27% 4% 1% 2% 224,316	14,563,318 60% 3% 30% 5% 1% 2% -250,802	13,014,354 56% 2% 33% 5% 2% 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 MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy Sales	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 MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy LSE Internal LBMP Energy SalesBalancing 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% 2% -180,848 -147% 55%	14,095,904 60% 1% 30% 5% 2% 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% 2% 224,316 42% 56%	14,563,318 60% 3% 30% 5% 1% 2% -250,802	13,014,354 56% 2% 33% 5% 2% 2% 2% -477,109 -111% 21%	12,770,775 56% 2% 32% 5% 2% 2% 3% -394,575 -102% 28%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal Bilaterals	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19%		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% 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% 2% 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% 2% 3% -394,575 -102% 28% 9%	14,245,185 58% 3% 31% 5% 2% 2% 2% -127,836 -269% 138% 65%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy LSE Internal LBMP Energy SalesBalancing 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% 9% 0%	13,413,781 55% 1% 35% 5% 2% 2% -741,701 -118% 19%	12,496,141 57% 5% 28% 6% 2% 2% 2% -303,313 -76% -13% 8% 0%	12,959,886 58% 2% 31% 5% 2% 2% 2% -180,848 -147% 55%	14,095,904 60% 1% 30% 5% 2% 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% 2% 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% 2% -477,109 -111% 21%	12,770,775 56% 2% 32% 5% 2% 2% 3% -394,575 -102% 28%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal Bilaterals	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19%		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% 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% 2% 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% 2% 3% -394,575 -102% 28% 9%	14,245,185 58% 3% 31% 5% 2% 2% 2% -127,836 -269% 138% 65%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	14,760,915 54% 4% 34% 5% 2% 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% 2% -741,701 -118% 19% 4% 0%	12,496,141 57% 5% 28% 6% 2% 2% 2% -303,313 -76% -13% 8% 0%	12,959,886 58% 2% 31% 5% 2% 2% 2% -180,848 -147% 55% 27% 0%	14,095,904 60% 1% 30% 5% 2% 2% 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% 2% -477,109 -111% 21% 6% 0%	12,770,775 56% 2% 32% 5% 2% 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 MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 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% 2% -303,313 -76% -13% 8% 0% 5%	12,959,886 58% 2% 31% 5% 2% 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% 2% 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% 2% -477,109 -111% 21% 6% 0% 4%	12,770,775 56% 2% 32% 5% 2% 2% 3% -394,575 -102% 28% 9% 0% 6%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 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% 2% -303,313 -76% -13% 8% 0% 5%	12,959,886 58% 2% 31% 5% 2% 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% 2% 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% 2% -477,109 -111% 21% 6% 0% 4%	12,770,775 56% 2% 32% 5% 2% 2% 3% -394,575 -102% 28% 9% 0% 6%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Sport/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Sport/Non-LBMP Market BilateralsBalancing Energy Bilateral - Sport/Non-LBMP Market BilateralsBalancing Energy Bilateral - Sport/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Wheel Through Bilaterals	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% 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% 2% -477,109 -111% 21% 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 MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through Bilaterals<	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 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% 2% -180,848 -147% 55% 27% 0% 7% -42%	14,095,904 60% 1% 30% 5% 2% 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% 21% 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 - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Sport/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bila	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12% 56% 36%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36%	13,413,781 55% 1% 35% 5% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 35% 54% 37%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% 5% -24%	12,959,886 58% 2% 31% 5% 2% 2% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32%	14,095,904 60% 1% 30% 5% 2% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -31% 66% 27%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% 5% -32% 62% 30%	13,014,354 56% 2% 33% 5% 2% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -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         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy LSE Internal LBMP Energy Sales         Balancing Energy External TC LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Internal Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Mheel Through Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals <td>14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5%</td> <td>13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5%</td> <td>13,413,781 55% 1% 35% 5% 2% 2% 2% -741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6%</td> <td>12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6%</td> <td>12,959,886 58% 2% 31% 5% 2% 2% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5%</td> <td>14,095,904 60% 1% 30% 5% 2% 2% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5%</td> <td>16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4%</td> <td>17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 56% 28% 0% 5% -31% 66% 27% 4%</td> <td>14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5%</td> <td>13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5%</td> <td>12,770,775 56% 2% 32% 5% 2% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6%</td> <td>14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5%</td>	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5%	13,413,781 55% 1% 35% 5% 2% 2% 2% -741,701 -118% 19% 4% 0% 3% -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% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5%	14,095,904 60% 1% 30% 5% 2% 2% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 56% 28% 0% 5% -31% 66% 27% 4%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5%	12,770,775 56% 2% 32% 5% 2% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 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 Market MWh         Balancing Energy ISE 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 - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilaterals - Wheel Through Bilaterals         Balancing Energy Bilaterals         Import Bilaterals <td>14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 2%</td> <td>13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2%</td> <td>13,413,781 55% 1% 35% 2% 2% 2% -741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2%</td> <td>12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% 5% -24% 62% 29% 6% 2%</td> <td>12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2%</td> <td>14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2%</td> <td>16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1%</td> <td>17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4% 1%</td> <td>14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1%</td> <td>13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2%</td> <td>12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2%</td> <td>14,245,185 58% 3% 31% 5% 2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32% 5% 2%</td>	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 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% 2% 2% 2% -741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% 5% -24% 62% 29% 6% 2%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 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% 2% 224,316 42% 56% 28% 0% 5% -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% 21% 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% -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         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 - Internal Bilaterals         Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral - Wheel Through Bilaterals         Balancing Energy Bilateral S         Internal Bilaterals         Import Bilaterals         Import Bilaterals         Kopt Bilaterals         Kopt Bilaterals         Balancing Energy Bilateral S         Balancing Energy Bilateral S         Balancing Energy Bilateral S <td< td=""><td>14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 2%</td><td>13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2%</td><td>13,413,781 55% 1% 35% 2% 2% 2% -741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2%</td><td>12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% 5% -24% 62% 29% 6% 2%</td><td>12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2%</td><td>14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2%</td><td>16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1%</td><td>17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4% 1%</td><td>14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1%</td><td>13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2%</td><td>12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2%</td><td>14,245,185 58% 3% 31% 5% 2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32% 5% 2%</td></td<>	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 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% 2% 2% 2% -741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2%	12,496,141 57% 5% 28% 6% 2% 2% -303,313 -76% -13% 8% 0% 5% 5% -24% 62% 29% 6% 2%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 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% 2% 224,316 42% 56% 28% 0% 5% -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% 21% 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% -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         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy Market MWh         Balancing Energy Market MWh         Balancing Energy Bilateral - Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         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         Wheels Through         Market Share of Total Load	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 12% 19% 0% 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% 2% -303,313 -76% -13% 8% 0% 5% -24% 6% 29% 6% 29% 6% 2% 1%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2% 2% 2%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2% 2%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1% 1%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -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%	14,245,185 58% 3% 31% 5% 2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5% 2% 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         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy Market MWh         Balancing Energy Market MWh         Balancing Energy Market MWh         Balancing Energy Bilateral - Uthrough Bilaterals         Balancing Energy Bilateral - Internal 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         Balancing Energy Bilaterals         Import Bilaterals         Import Bilaterals         Wheels Through         Marke	14,760,915 54% 4% 34% 5% 2% 2% -522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 2% 1% 103.7% -3.7%	13,614,754 55% 2% 34% 5% 1% 2% -580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 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% 2% -303,313 -76% -13% 8% 0% 5% -24% 6% 29% 6% 29% 6% 29% 6% 29% 1%	12,959,886 58% 2% 31% 5% 2% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2% 2% 2% 2% 2%	14,095,904 60% 1% 30% 5% 2% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2% 2% 2%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 4% 15% 28% 4% 1% 1% 1%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4% 1% 1% 1% 1%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2% 101.8% -1.8%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1% 103.8% -3.8%	12,770,775 56% 2% 32% 5% 2% 3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2% 2% 2%	14,245,185 58% 3% 31% 5% 2% 2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5% 2% 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         DAM Bilateral - Wheel Through Bilaterals         DAM Bilateral - Wheel Through Bilaterals         Balancing Energy Market MWh         Balancing Energy Market MWh         Balancing Energy Market MWh         Balancing Energy Bilateral - Internal LBMP Energy Sales         Balancing Energy Bilateral - Internal Bilaterals         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         Wheels Through         Market Share of Total Load	14,760,915 54% 4% 34% 5% 2% -522,919 -125% 12% 19% 0% 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% 2% -303,313 -76% -13% 8% 0% 5% -24% 6% 29% 6% 29% 6% 2% 1%	12,959,886 58% 2% 31% 5% 2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 59% 32% 5% 2% 2%	14,095,904 60% 1% 30% 5% 2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2% 2%	16,950,819 64% 1% 28% 4% 1% 2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1% 1%	17,413,898 63% 3% 27% 4% 1% 2% 224,316 42% 56% 28% 0% 56% 28% 0% 5% -31% 66% 27% 4% 1% 1% 1%	14,563,318 60% 3% 30% 5% 1% 2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2% 101.8% -1.8%	13,014,354 56% 2% 33% 5% 2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 55% 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% 32% 5% 2% 2% 2%

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

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

Market Mitigation and Analysis Prepared: 10/6/2017 10:39 AM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

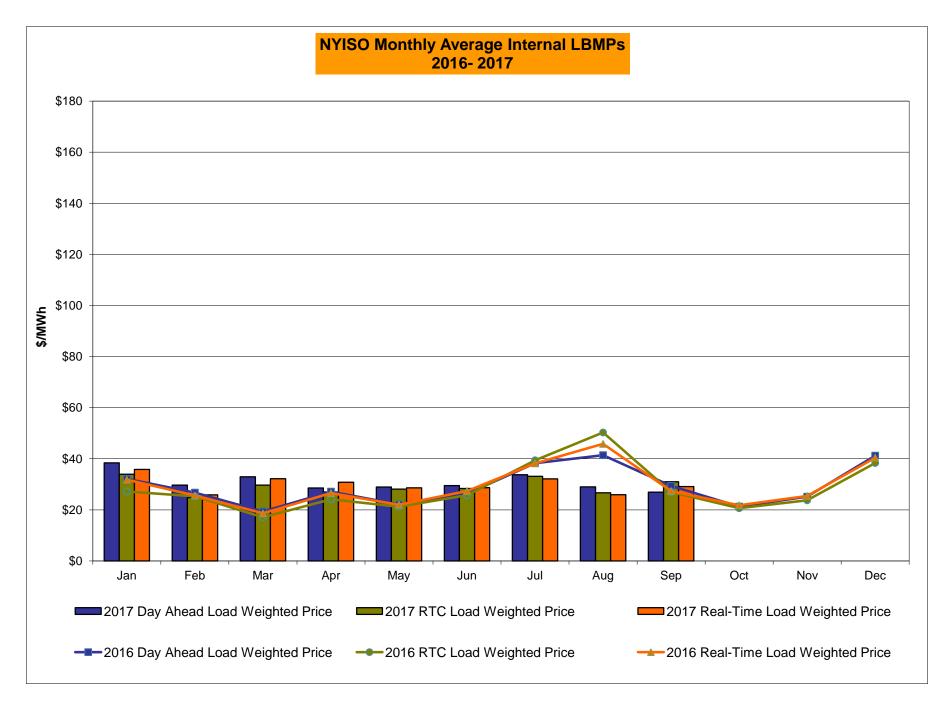
#### NYISO Markets 2017 Energy Statistics

	<u>January</u>	<b>February</b>	March	<u>April</u>	May	June	July	August	<u>September</u>	October November December
DAY AHEAD LBMP										
Price *	\$37.22	\$28.84	\$32.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	\$25.05	
Standard Deviation	\$13.20	\$7.97	\$11.95	\$7.66	\$9.47	\$12.37	\$13.51	\$10.60	\$12.09	
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95	
RTC LBMP										
Price *	\$32.87	\$24.09	\$28.86	\$26.19	\$26.19	\$26.40	\$30.84	\$25.26	\$27.97	
Standard Deviation	\$14.57	\$9.52	\$13.70	\$10.36	\$21.29	\$14.76	\$18.14	\$13.08	\$27.14	
Load Weighted Price **	\$33.96	\$24.81	\$29.67	\$26.98	\$28.10	\$28.39	\$33.13	\$26.65	\$30.98	
REAL TIME LBMP										
Price *	\$34.61	\$25.14	\$31.21	\$29.61	\$26.56	\$26.16	\$29.47	\$24.36	\$26.08	
Standard Deviation	\$18.20	\$14.21	\$25.02	\$39.82	\$26.11	\$19.00	\$20.25	\$14.03	\$25.72	
Load Weighted Price **	\$35.80	\$25.84	\$32.21	\$30.81	\$28.64	\$28.67	\$32.11	\$25.95	\$29.13	
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437	

#### NYISO Markets 2016 Energy Statistics

	January	<b>February</b>	March	<u>April</u>	May	<u>June</u>	July	August S	<u>September</u>	October	November [	<u>December</u>
DAY AHEAD LBMP												
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

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

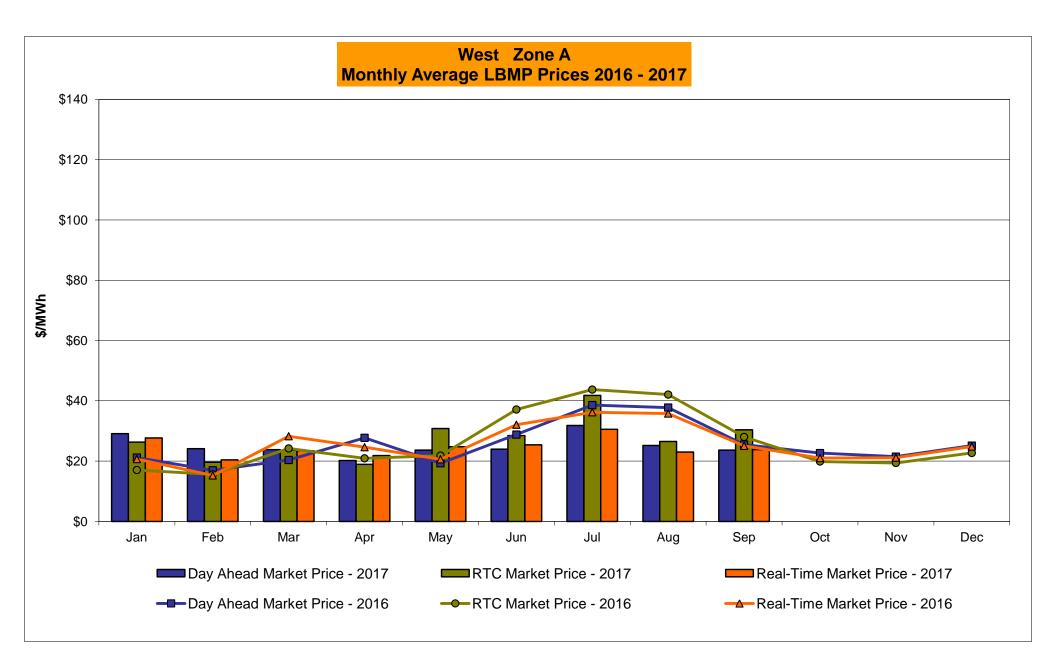


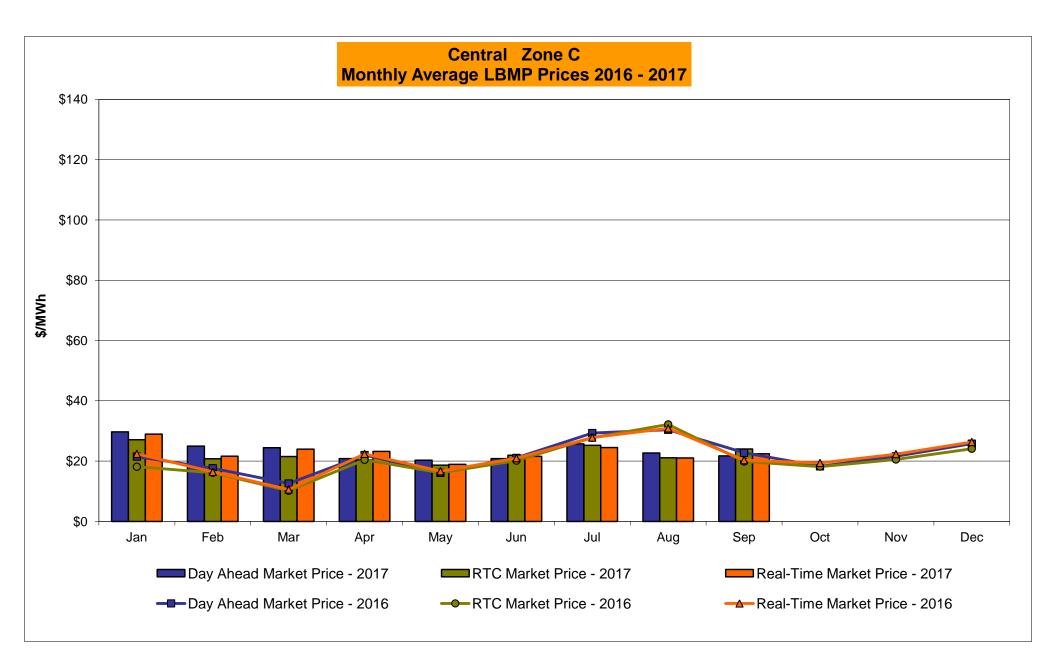
#### September 2017 Zonal LBMP Statistics for NYISO (\$/MWh)

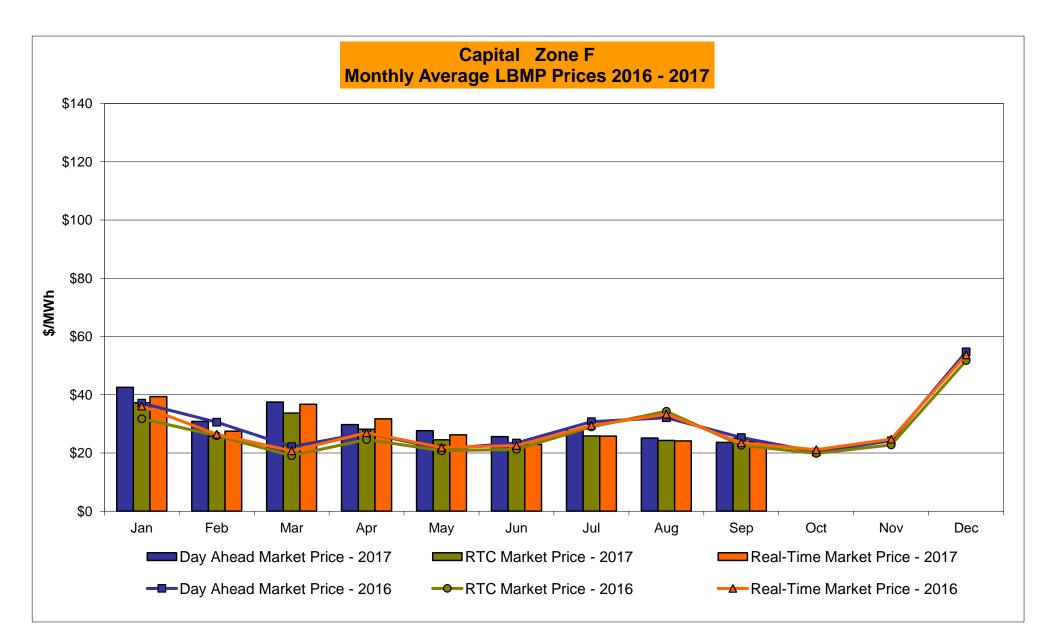
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	<u>Zone A</u>	Zone B	Zone D	Zone C	<u>Zone E</u>	Zone F	Zone G	<u>Zone H</u>	<u>Zone I</u>	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	23.64	21.28	14.08	21.72	21.16	23.65	24.42	24.62	24.65	26.26	31.04
Standard Deviation	15.84	11.06	11.48	11.35	11.33	10.75	11.54	11.62	11.59	12.01	14.39
RTC LBMP											
Unweighted Price *	30.39	23.83	17.92	24.01	23.45	25.07	26.52	26.92	27.04	27.74	36.81
Standard Deviation	79.62	25.94	68.19	20.22	23.17	19.78	25.03	27.31	27.58	28.03	49.46
REAL TIME LBMP											
Unweighted Price *	23.83	22.24	12.86	22.42	21.70	23.90	25.64	26.12	26.37	27.16	33.59
Standard Deviation	19.81	16.88	108.47	16.77	26.03	17.09	26.39	30.55	31.21	31.59	45.88

	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		(	(			Controllable	Controllable	Controllable	Controllable	Controllable	<u>Controllable</u>
	Zone O	Zone M	Zone M	Zone P	Zone N	Line	Line	Line	Line	Line	Line
DAY AHEAD LBMP											
Unweighted Price *	20.57	15.07	15.07	23.32	23.78	28.28	26.18	27.50	26.33	26.32	14.60
Standard Deviation	10.67	10.49	10.49	11.86	10.97	12.06	11.39	11.48	12.03	12.07	11.16
RTC LBMP											
Unweighted Price *	21.65	17.71	17.71	28.63	27.99	32.72	32.03	31.81	27.33	27.43	18.65
Standard Deviation	18.43	75.33	75.33	45.45	40.09	43.82	42.30	42.81	27.27	27.55	66.26
REAL TIME LBMP											
Unweighted Price *	21.47	12.09	12.09	26.99	25.53	30.59	28.94	29.93	26.68	26.76	12.59
Standard Deviation	16.42	121.60	121.60	47.08	27.11	40.52	39.56	39.26	30.86	31.28	104.52

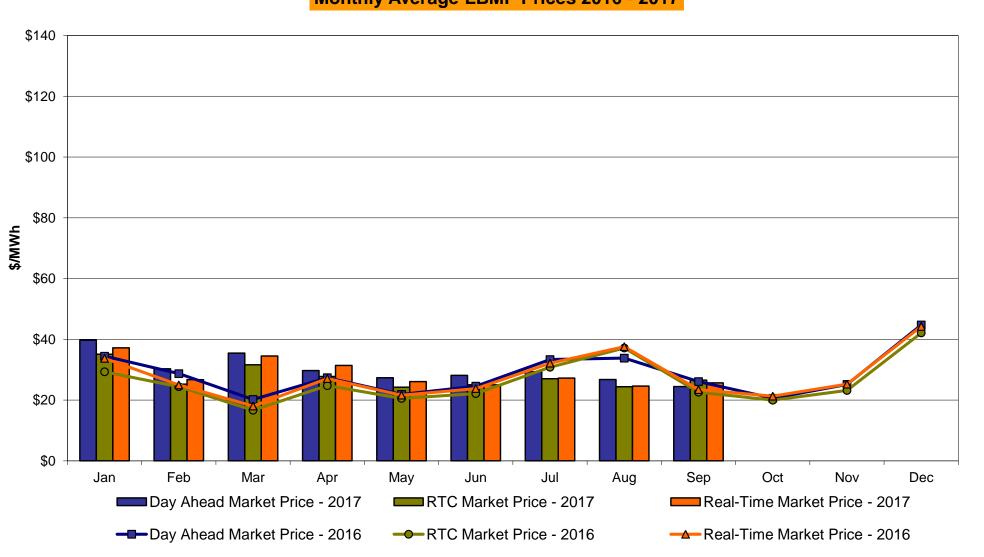
\* Straight LBMP averages

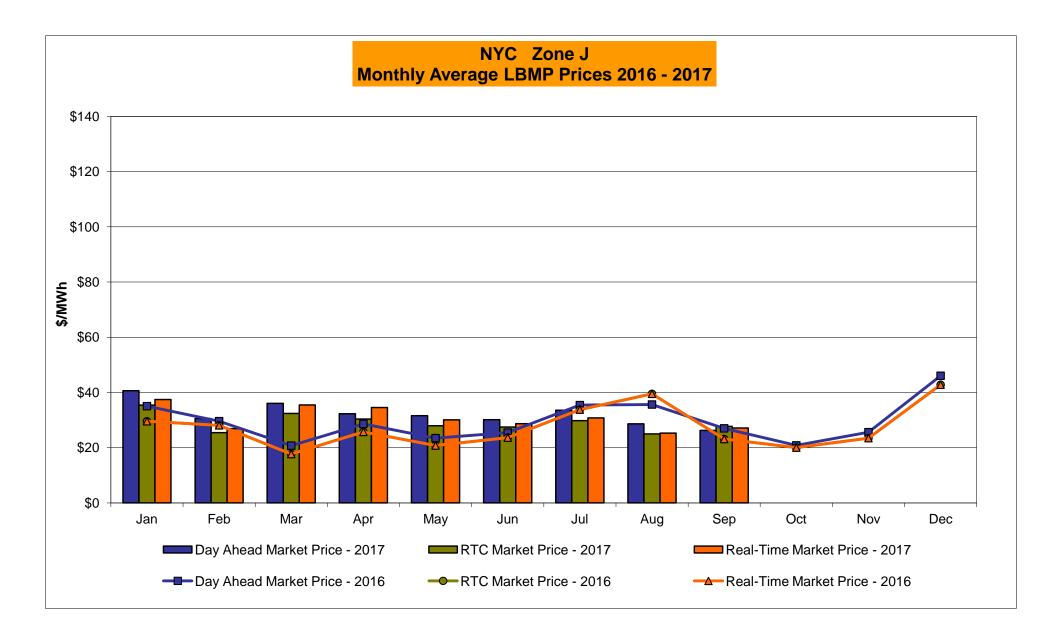


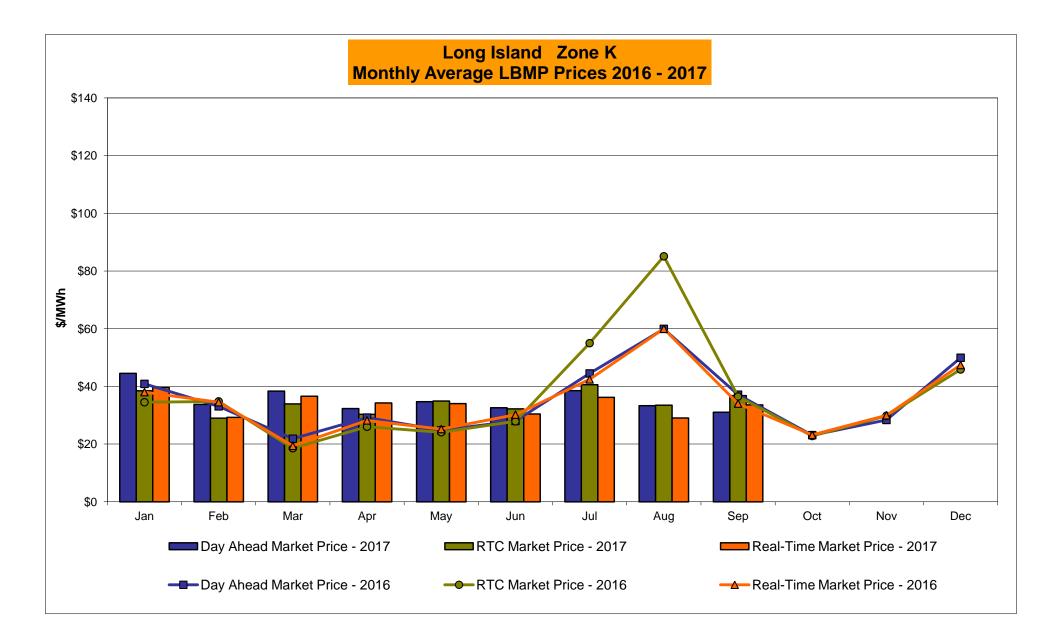


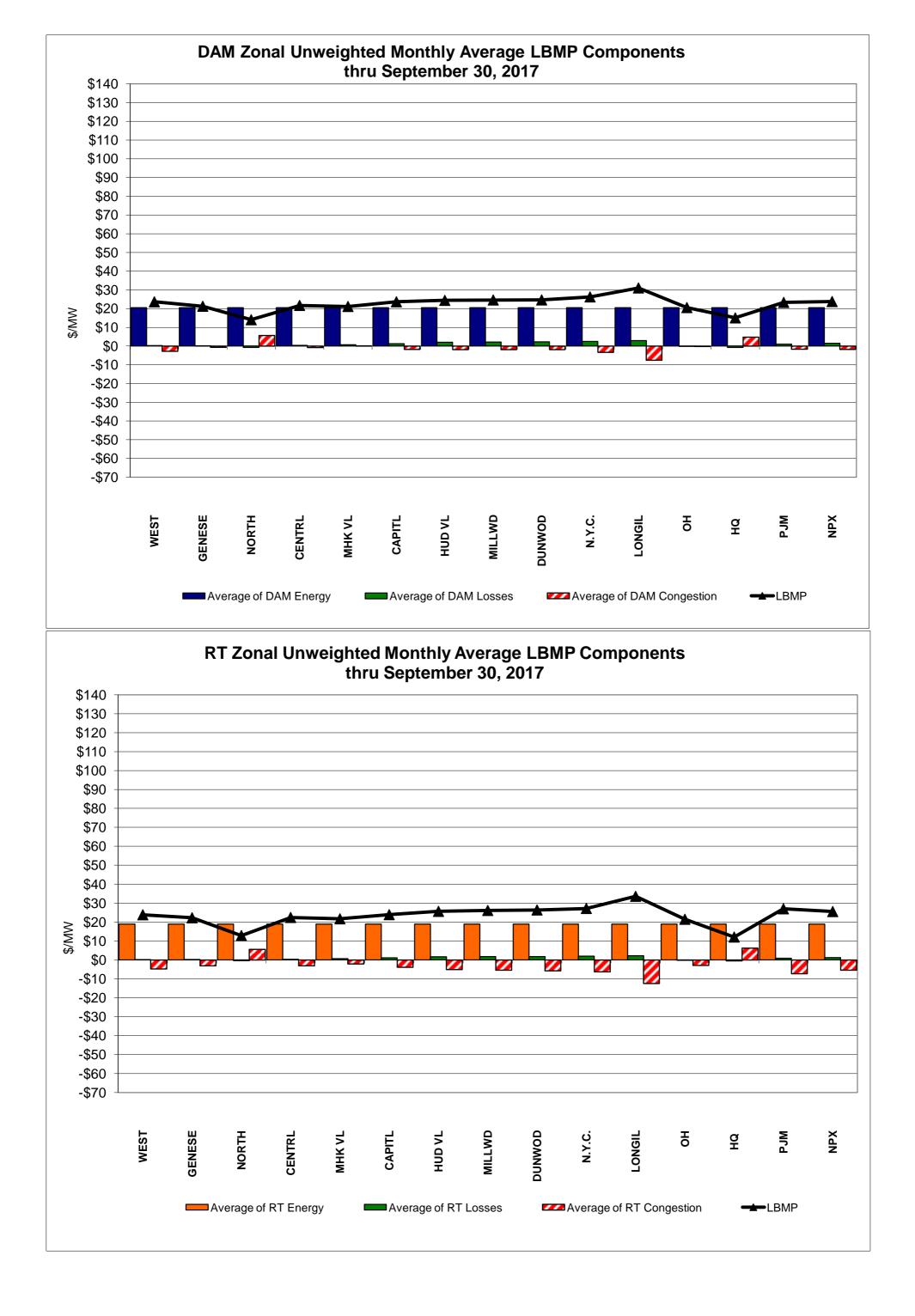


#### Hudson Valley Zone G Monthly Average LBMP Prices 2016 - 2017

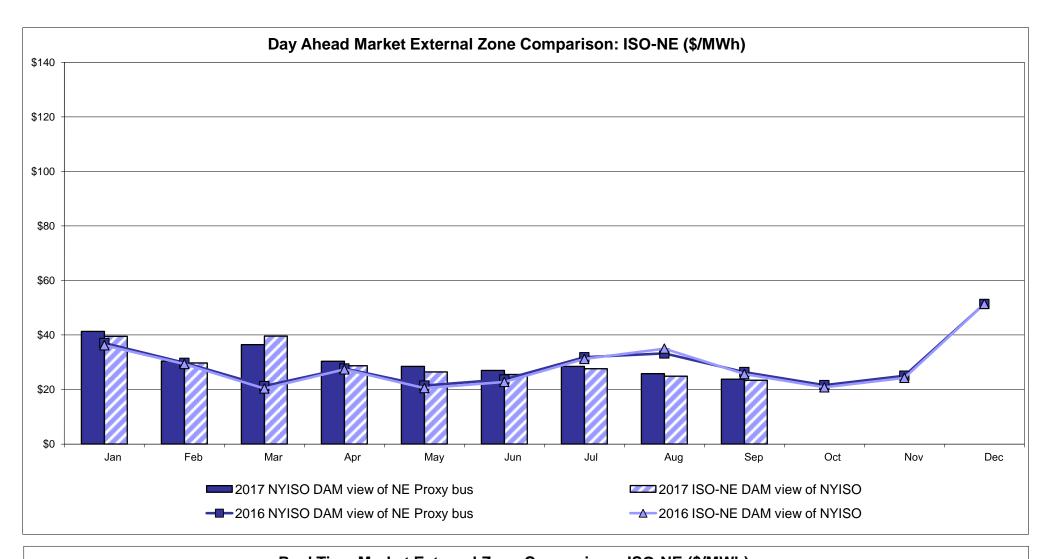




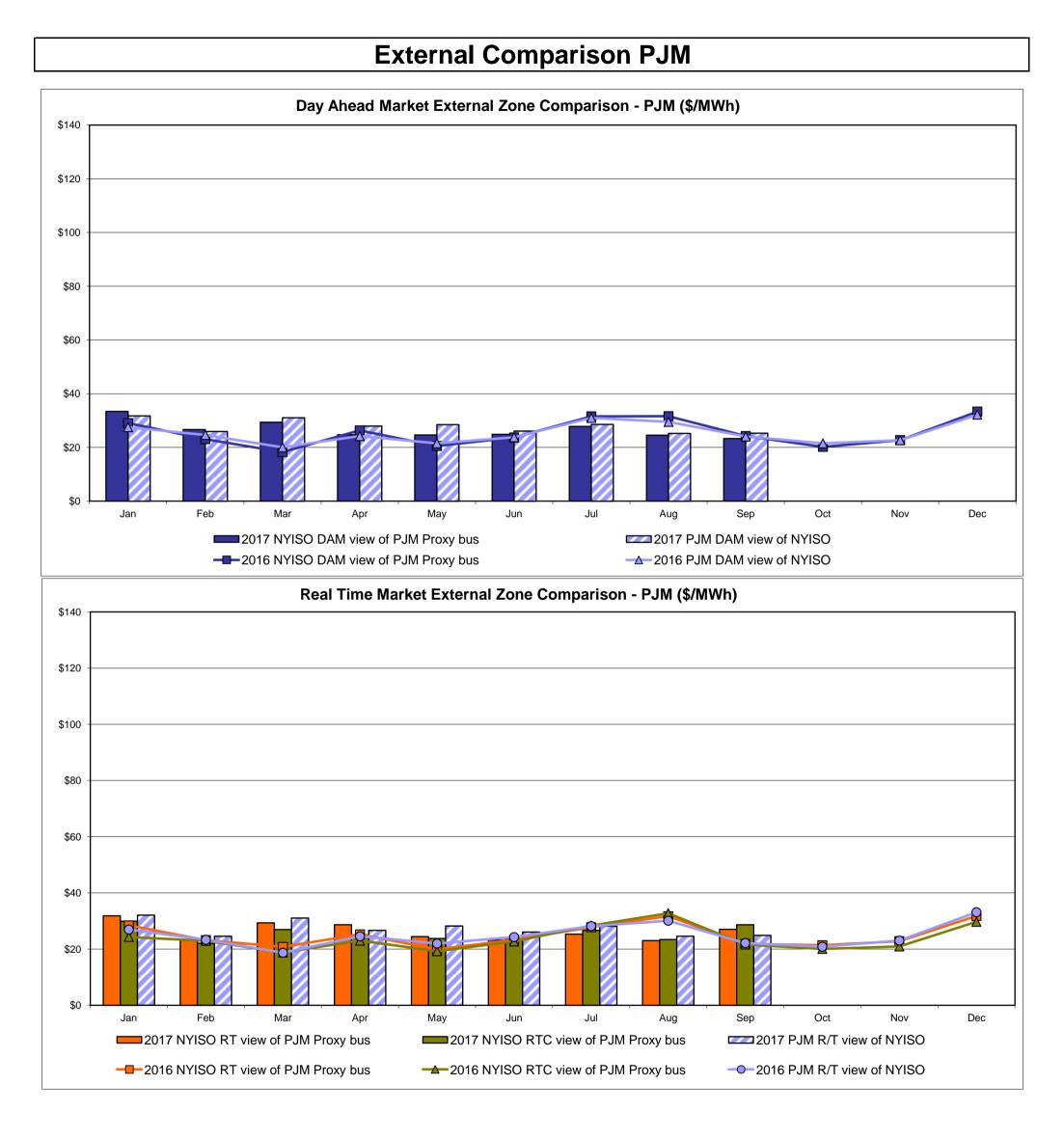




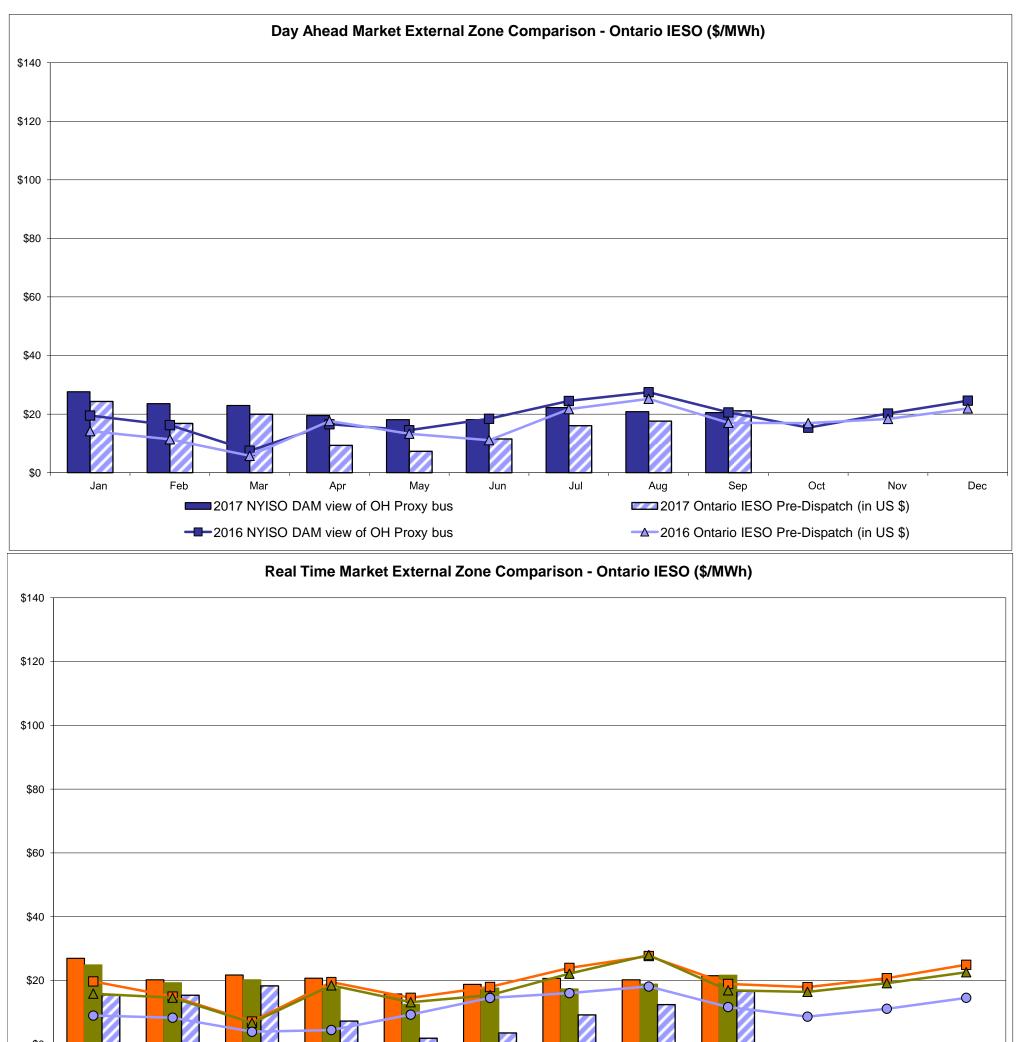
# External Comparison ISO-New England



Real Time Market External Zone Comparison: ISO-NE (\$/MWh) \$140 \$120 \$100 \$80 \$60 \$40 \$20 \$0 Sep Feb Mar Jun Jul Oct Nov Dec Jan Apr May Aug 2017 NYISO RT view of NE Proxy bus 2017 NYISO RTC view of NE Proxy bus 2017 ISO-NE R/T view of NYISO → 2016 NYISO RTC view of NE Proxy bus 2016 NYISO RT view of NE Proxy bus -O-2016 ISO-NE R/T view of NYISO

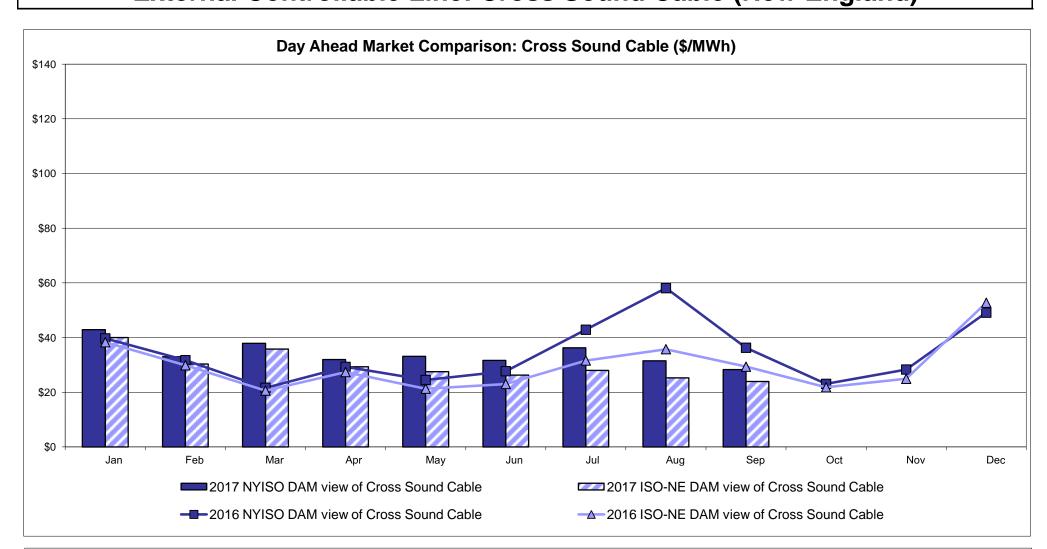


# **External Comparison Ontario IESO**

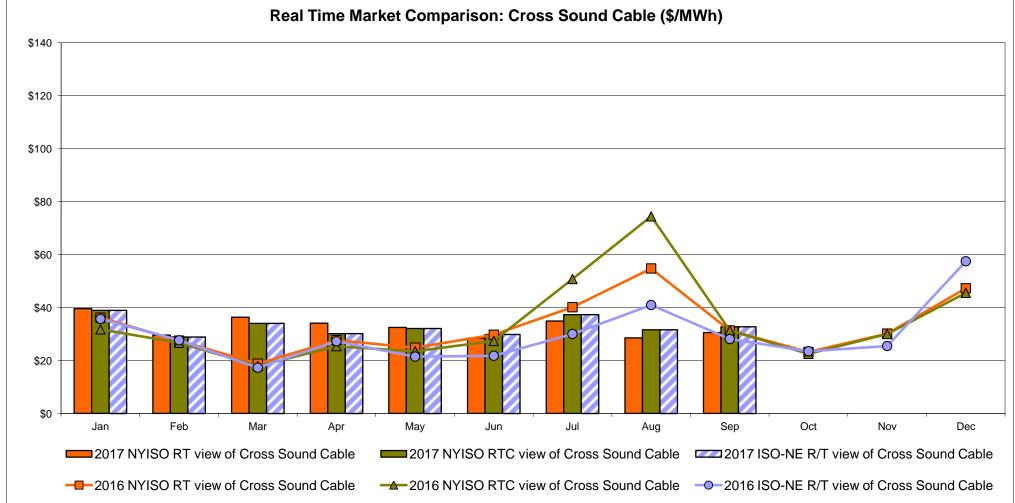




Notes: Exchange factor used for September 2017 was 0.814398566658523 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



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



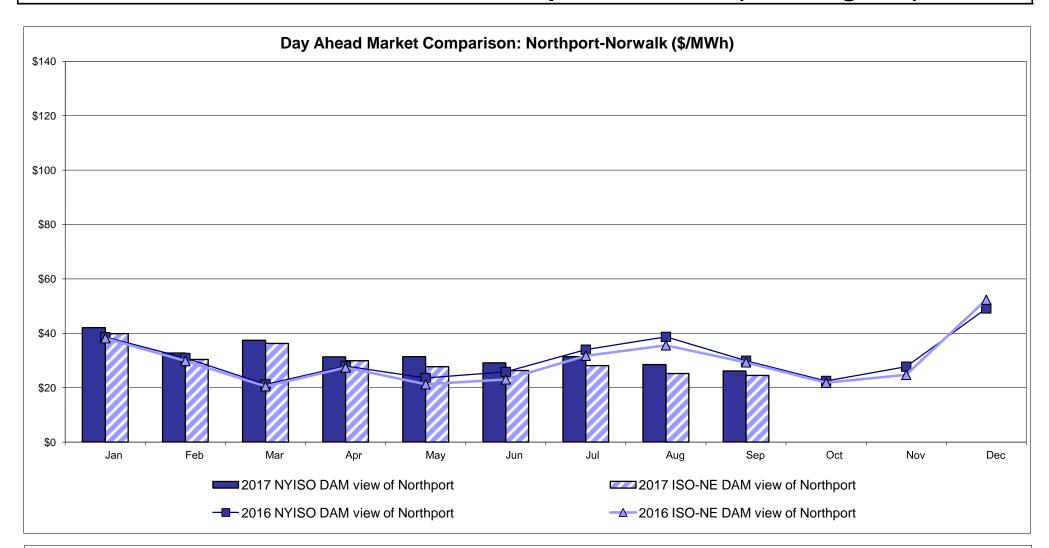
Note:

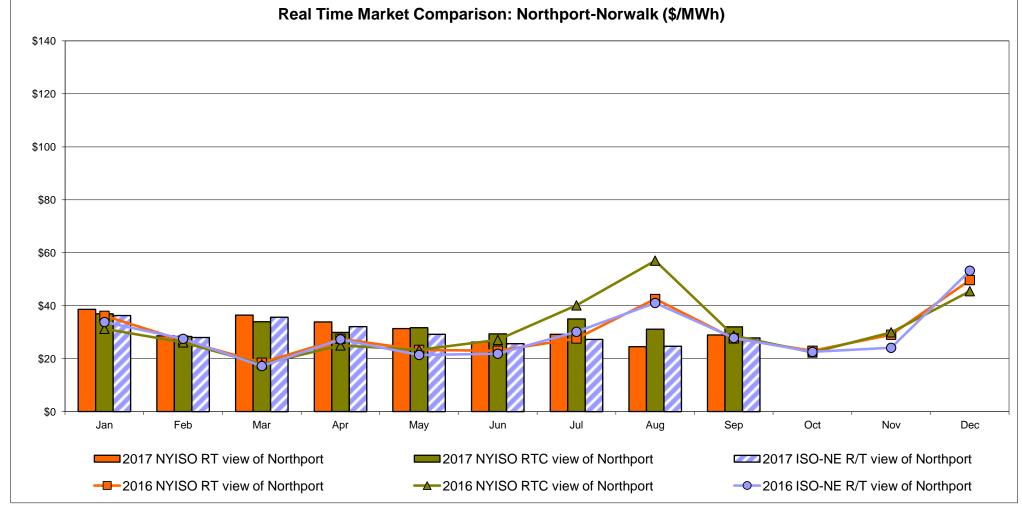
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

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





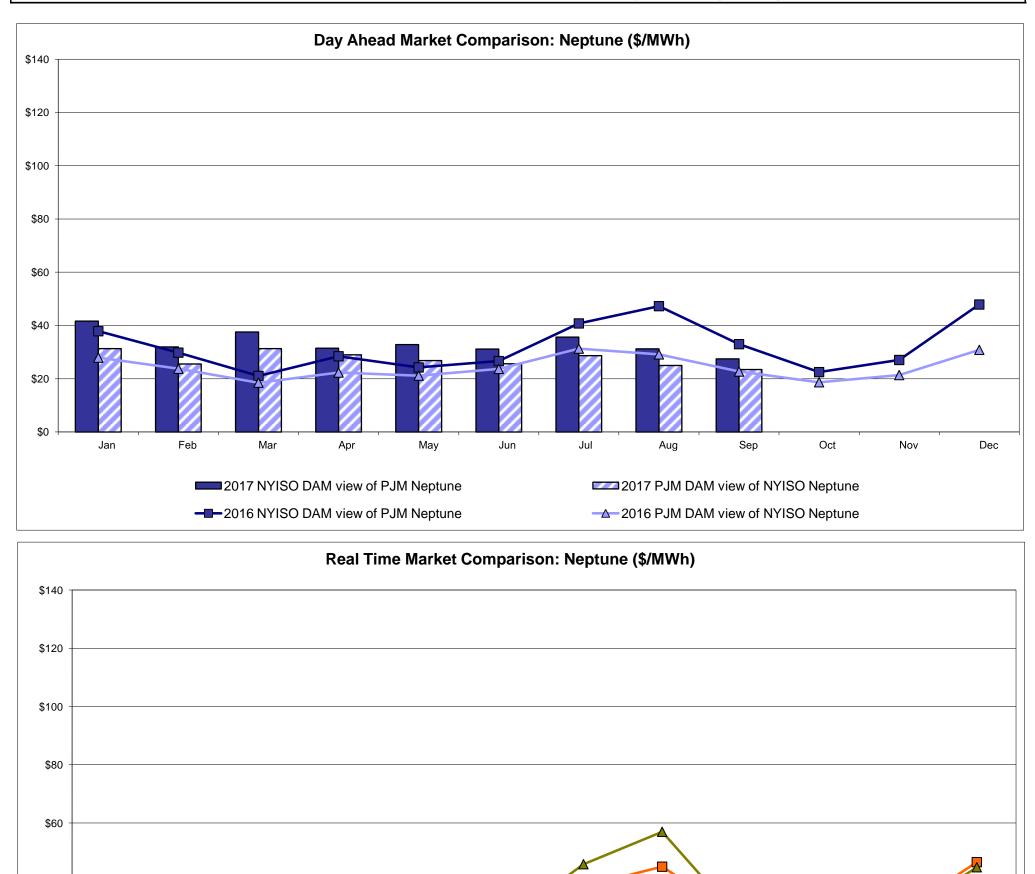
Note:

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

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

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

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



Feb

2017 NYISO RT view of PJM Neptune

-D-2016 NYISO RT view of PJM Neptune

Mar

Apr

May

\$40

\$20

\$0

Jan

Jun

2017 NYISO RTC view of PJM Neptune

-2016 NYISO RTC view of PJM Neptune

Jul

Sep

Aug

Oct

2017 PJM R/T view of NYISO Neptune

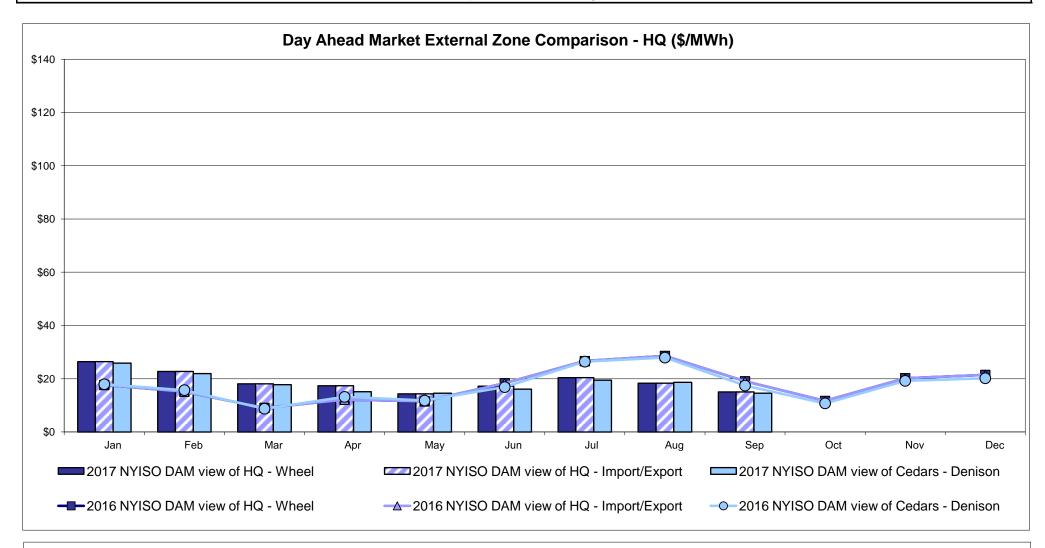
-O-2016 PJM R/T view of NYISO Neptune

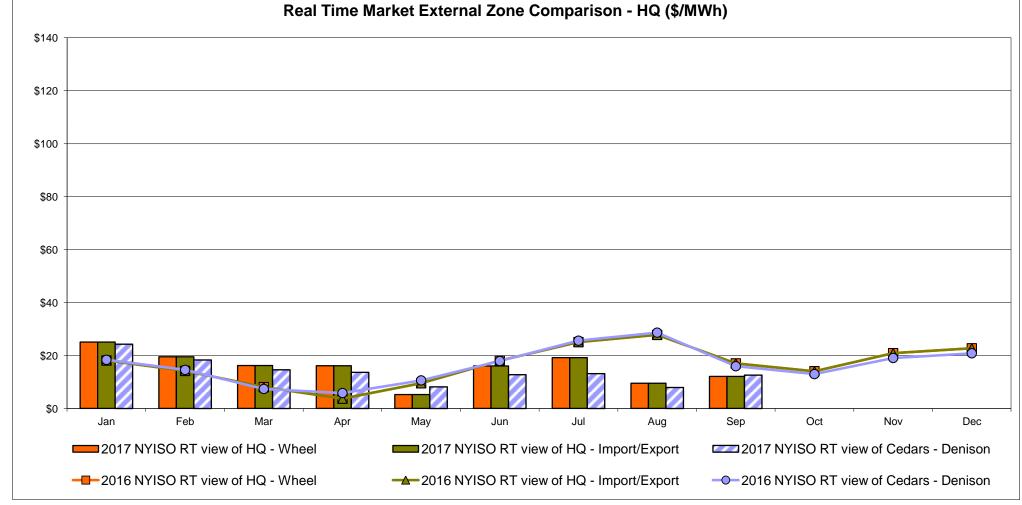
Nov

 $\bigcirc$ 

Dec

# External Comparison Hydro-Quebec

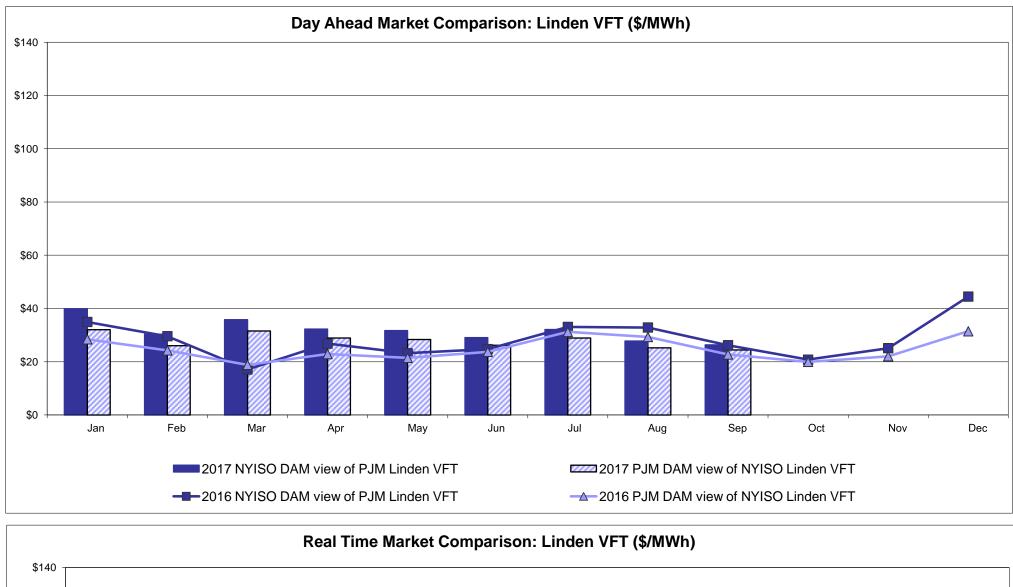


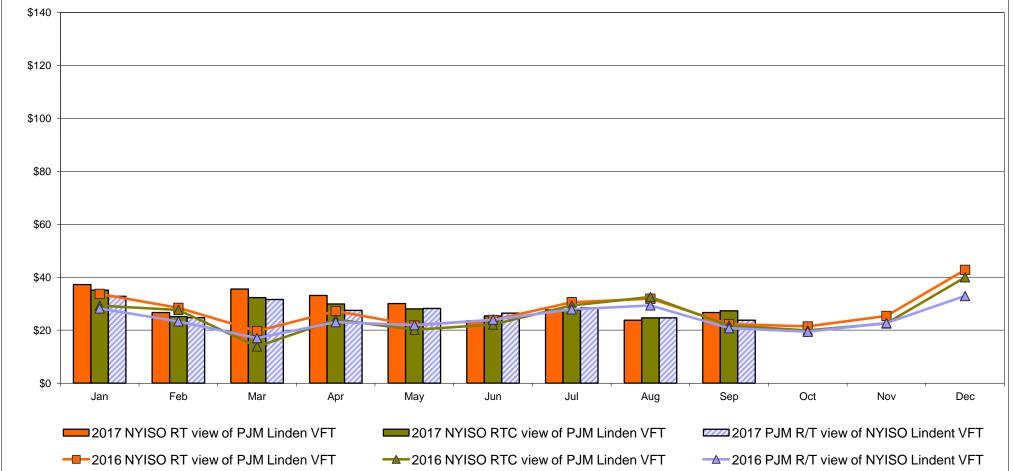


Note:

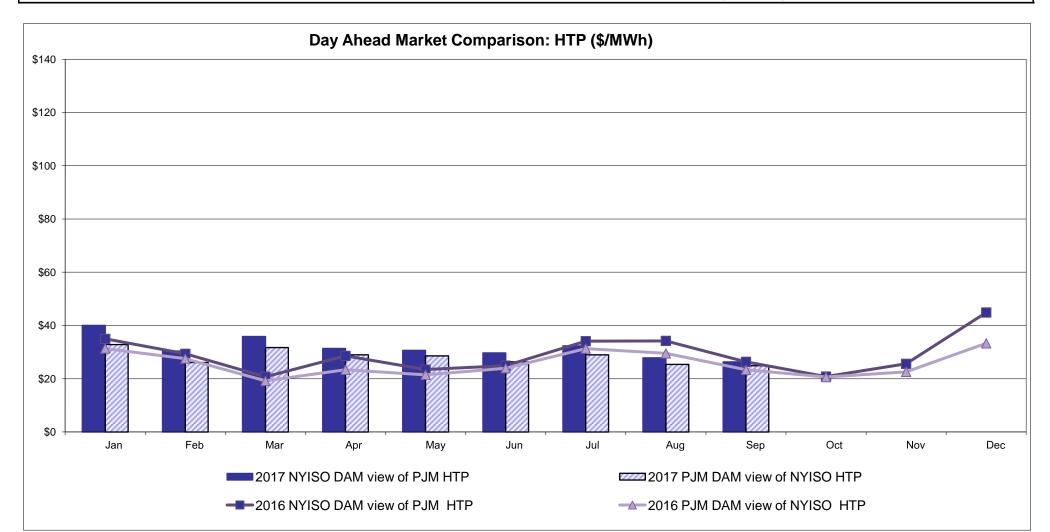
Hydro-Quebec Prices are unavailable.

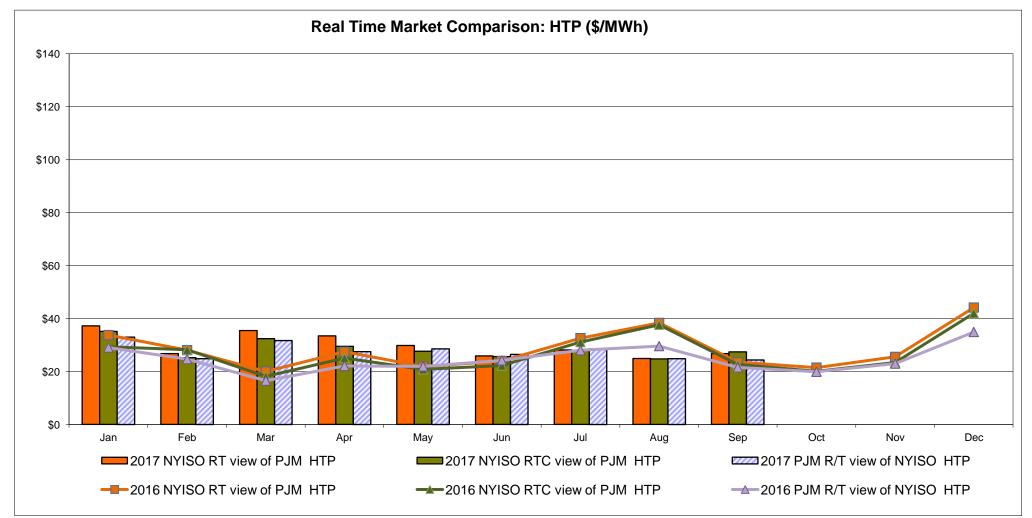
# **External Controllable Line: Linden VFT (PJM)**





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



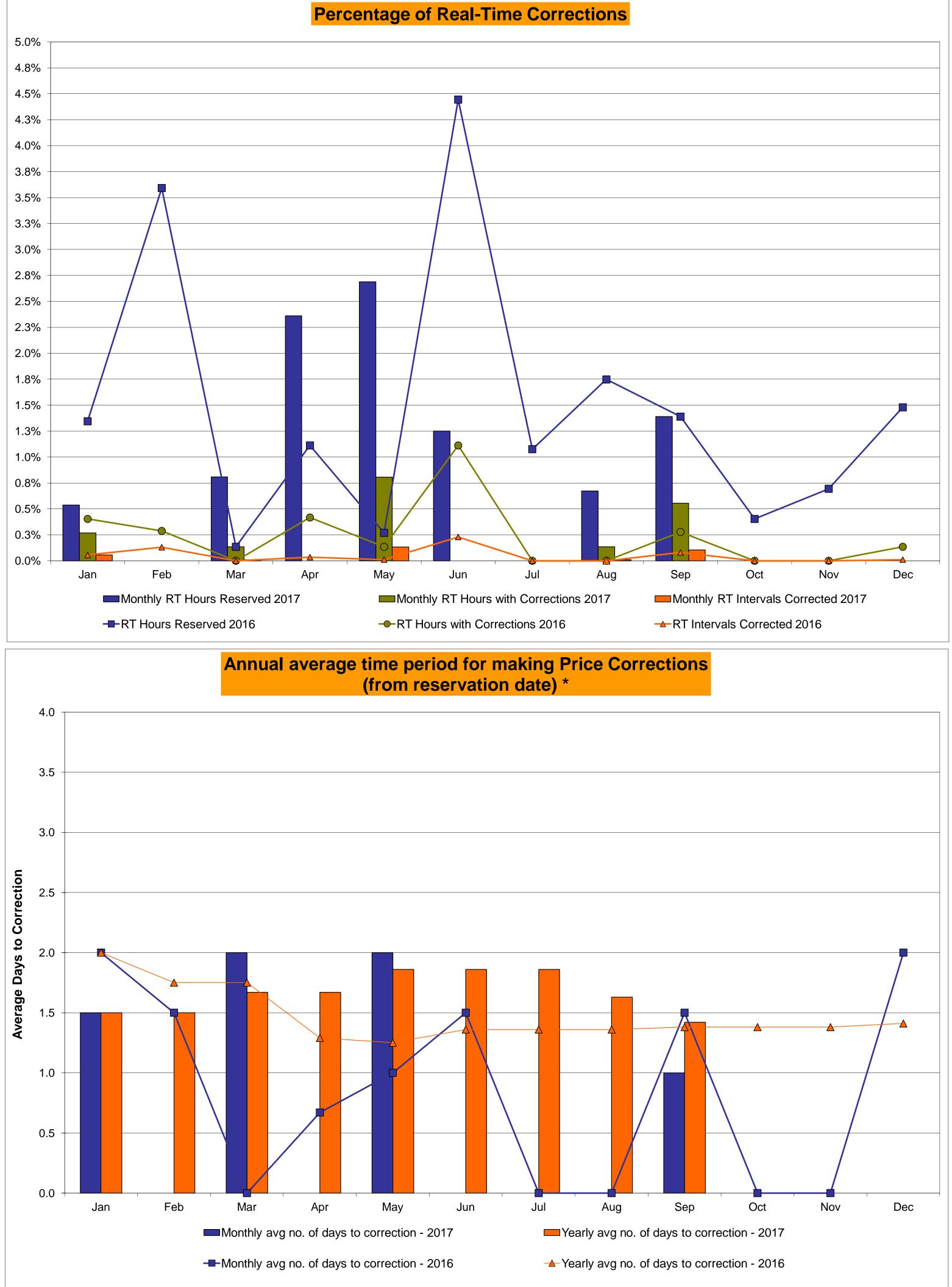


#### **NYISO Real Time Price Correction Statistics**

2017 Hour Corrections		January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	July	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Number of hours with corrections	in the month	2	0	1	0	6	0	0	1	4			
Number of hours	in the month	744	672	743	720	744	720	744	744	720			
% of hours with corrections	in the month	0.27%	0.00%	0.13%	0.00%	0.81%	0.00%	0.00%	0.13%	0.56%			
% of hours with corrections	year-to-date	0.27%	0.14%	0.14%	0.10%	0.25%	0.21%	0.18%	0.17%	0.21%			
Interval Corrections	your to duto	0.2170	0.1170	0.1170	011070	0.2070	0.2170	0.1070	0.117/0	0.2170			
Number of intervals corrected	in the month	5	0	1	0	12	0	0	1	9			
Number of intervals	in the month	8,983	8,101	9,026	8,745	9,004	8,712	8,968	8,980	8,701			
% of intervals corrected	in the month	0.06%	0.00%	0.01%	0.00%	0.13%	0.00%	0.00%	0.01%	0.10%			
% of intervals corrected	year-to-date	0.06%	0.03%	0.02%	0.02%	0.04%	0.03%	0.03%	0.03%	0.04%			
Hours Reserved													
Number of hours reserved	in the month	4	0	6	17	20	9	0	5	10			
Number of hours	in the month	744	672	743	720	744	720	744	744	720			
% of hours reserved	in the month	0.54%	0.00%	0.81%	2.36%	2.69%	1.25%	0.00%	0.67%	1.39%			
% of hours reserved	year-to-date	0.54%	0.28%	0.46%	0.94%	1.30%	1.29%	1.10%	1.05%	1.08%			
Days to Correction *													
Avg. number of days to correction	in the month	1.50	0.00	2.00	0.00	2.00	0.00	0.00	0.00	1.00			
Avg. number of days to correction	year-to-date	1.50	1.50	1.67	1.67	1.86	1.86	1.86	1.63	1.42			
Days Without Corrections													
Days without corrections	in the month	29	28	30	30	27	30	31	30	26			
Days without corrections	year-to-date	29	57	87	117	144	174	205	235	261			
<u>2016</u>		<u>January</u>	<b>February</b>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
2016 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
	in the month	<u>January</u> 3	<u>February</u> 2	<u>March</u> 0	<u>April</u> 3	<u>May</u> 1	<u>June</u> 8	<u>July</u> 0	<u>August</u> 0	<u>September</u> 2	<u>October</u> 0	<u>November</u> 0	<u>December</u> 1
Hour Corrections	in the month in the month					<u>May</u> 1 744		-					<u>December</u> 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 in the month	3 744 0.40%	2 696	0 743	3 720 0.42%	1 744	8 720	0 744 0.00%	0 744	2 720 0.28%	0 744	0 721 0.00%	1 744 0.13%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month	3 744	2 696 0.29%	0 743 0.00%	3 720	1 744 0.13%	8 720 1.11%	0 744	0 744 0.00%	2 720	0 744 0.00%	0 721	1 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with 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	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%	0 744 0.00% 0.33%	0 744 0.00% 0.29%	2 720 0.28%	0 744 0.00% 0.26%	0 721 0.00% 0.24%	1 744 0.13%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected	in the month in the month year-to-date in the month	3 744 0.40% <u>0.40%</u> 5	2 696 0.29% <u>0.35%</u> 11	0 743 0.00% <u>0.23%</u> 0	3 720 0.42% 0.28% 3	1 744 0.13% <u>0.25%</u> 1	8 720 1.11% <u>0.39%</u> 20	0 744 0.00% <u>0.33%</u> 0	0 744 0.00% <u>0.29%</u> 0	2 720 0.28% 0.29% 7	0 744 0.00% <u>0.26%</u> 0	0 721 0.00% <u>0.24%</u> 0	1 744 0.13% <u>0.23%</u> 1
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals	in the month in the month year-to-date in the month in the month	3 744 0.40% <u>0.40%</u> 5 9,000	2 696 0.29% 0.35% 11 8,440	0 743 0.00% <u>0.23%</u> 0 8,995	3 720 0.42% 0.28% 3 8,724	1 744 0.13% <u>0.25%</u> 1 8,987	8 720 1.11% 0.39% 20 8,725	0 744 0.00% <u>0.33%</u> 0 9,038	0 744 0.00% <u>0.29%</u> 0 9,048	2 720 0.28% 0.29% 7 8,713	0 744 0.00% <u>0.26%</u> 0 8,960	0 721 0.00% 0.24% 0 8,724	1 744 0.13% <u>0.23%</u> 1 9,034
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month in the month	3 744 0.40% <u>0.40%</u> 5 9,000 0.06%	2 696 0.29% 0.35% 11 8,440 0.13%	0 743 0.00% <u>0.23%</u> 0 8,995 0.00%	3 720 0.42% 0.28% 3 8,724 0.03%	1 744 0.13% <u>0.25%</u> 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% <u>0.26%</u> 0 8,960 0.00%	0 721 0.00% 0.24% 0 8,724 0.00%	1 744 0.13% <u>0.23%</u> 1 9,034 0.01%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected	in the month in the month year-to-date in the month in the month in the month	3 744 0.40% <u>0.40%</u> 5 9,000 0.06%	2 696 0.29% 0.35% 11 8,440 0.13%	0 743 0.00% <u>0.23%</u> 0 8,995 0.00%	3 720 0.42% 0.28% 3 8,724 0.03%	1 744 0.13% <u>0.25%</u> 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% <u>0.26%</u> 0 8,960 0.00%	0 721 0.00% 0.24% 0 8,724 0.00%	1 744 0.13% <u>0.23%</u> 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         % 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% <u>0.35%</u> 11 8,440 0.13% <u>0.09%</u>	0 743 0.00% <u>0.23%</u> 0 8,995 0.00%	3 720 0.42% 0.28% 3 8,724 0.03% 0.05%	1 744 0.13% <u>0.25%</u> 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% <u>0.29%</u> 0 9,048 0.00% 0.06%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06%	0 744 0.00% <u>0.26%</u> 0 8,960 0.00% 0.05%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05%	1 744 0.13% <u>0.23%</u> 1 9,034 0.01% <u>0.05%</u>
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% number of intervals corrected% number of intervals corrected% number of intervals corrected% number of hours reserved	in the month in the month year-to-date 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	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8	1 744 0.13% <u>0.25%</u> 1 8,987 0.01% <u>0.05%</u> 2	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5	1 744 0.13% <u>0.23%</u> 1 9,034 0.01% <u>0.05%</u> 11
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber of hours reservedNumber of hours reservedNumber of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721	1 744 0.13% <u>0.23%</u> 1 9,034 0.01% <u>0.05%</u> 11 744
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reservedNumber of hours% of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	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% <u>0.23%</u> 1 9,034 0.01% <u>0.05%</u> 11 744 1.48%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	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% <u>0.23%</u> 1 9,034 0.01% <u>0.05%</u> 11 744 1.48%
Hour CorrectionsNumber of hours with correctionsNumber of hours with corrections% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month 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% 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% <u>0.23%</u> 1 9,034 0.01% <u>0.05%</u> 11 744 1.48% 1.46%
Hour CorrectionsNumber of hours with correctionsNumber of hours with corrections% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34% 1.34% 1.34% 2.00	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43% 1.50	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65% 0.00	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52% 0.67	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26% 1.00	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% 0.00	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69% 0.00	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66% 1.50	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53% 0.00	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46% 0.00	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46% 2.00 1.41
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved <tr< td=""><td>in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month</td><td>3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34% 1.34% 1.34% 2.00</td><td>2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43% 1.50</td><td>0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65% 0.00</td><td>3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52% 0.67</td><td>1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26% 1.00</td><td>8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720 4.44% 1.79% 1.50</td><td>0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744 1.08% 1.68% 0.00</td><td>0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69% 0.00</td><td>2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66% 1.50</td><td>0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53% 0.00</td><td>0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46% 0.00</td><td>1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46% 2.00</td></tr<>	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	3 744 0.40% 0.40% 5 9,000 0.06% 0.06% 10 744 1.34% 1.34% 1.34% 2.00	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43% 1.50	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65% 0.00	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52% 0.67	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26% 1.00	8 720 1.11% 0.39% 20 8,725 0.23% 0.08% 32 720 4.44% 1.79% 1.50	0 744 0.00% 0.33% 0 9,038 0.00% 0.06% 8 744 1.08% 1.68% 0.00	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69% 0.00	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66% 1.50	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53% 0.00	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46% 0.00	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46% 2.00

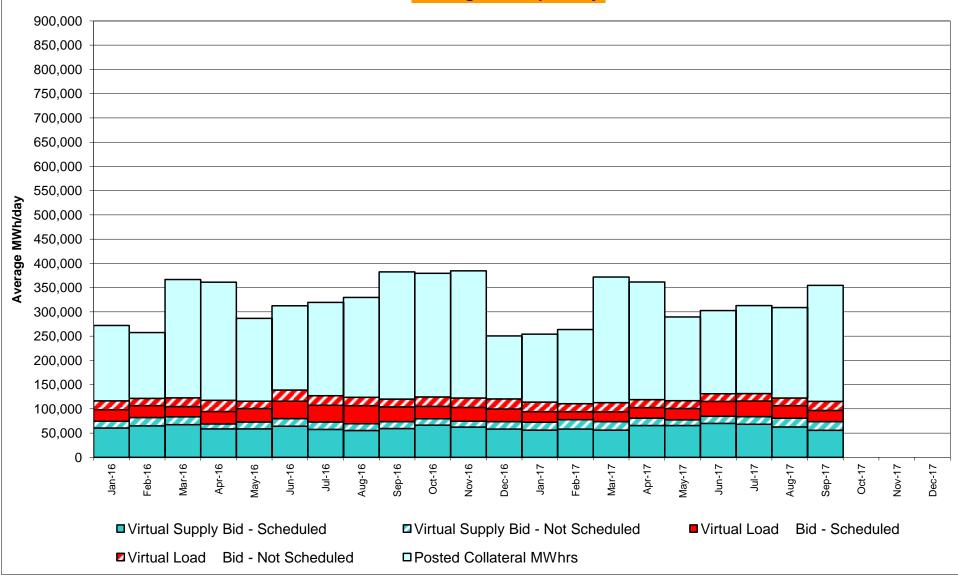
\* Calendar days from reservation date.

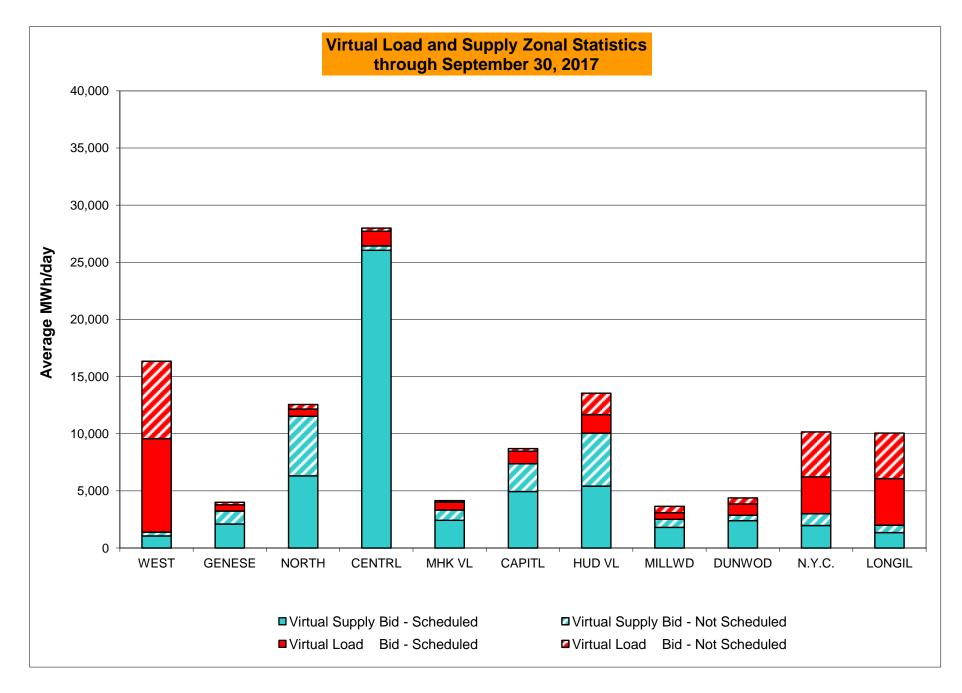
May and June 2017 Hours Reserved data has been updated for the July 2017 Monthly Market Operations Report.



\* Calendar days from reservation date.

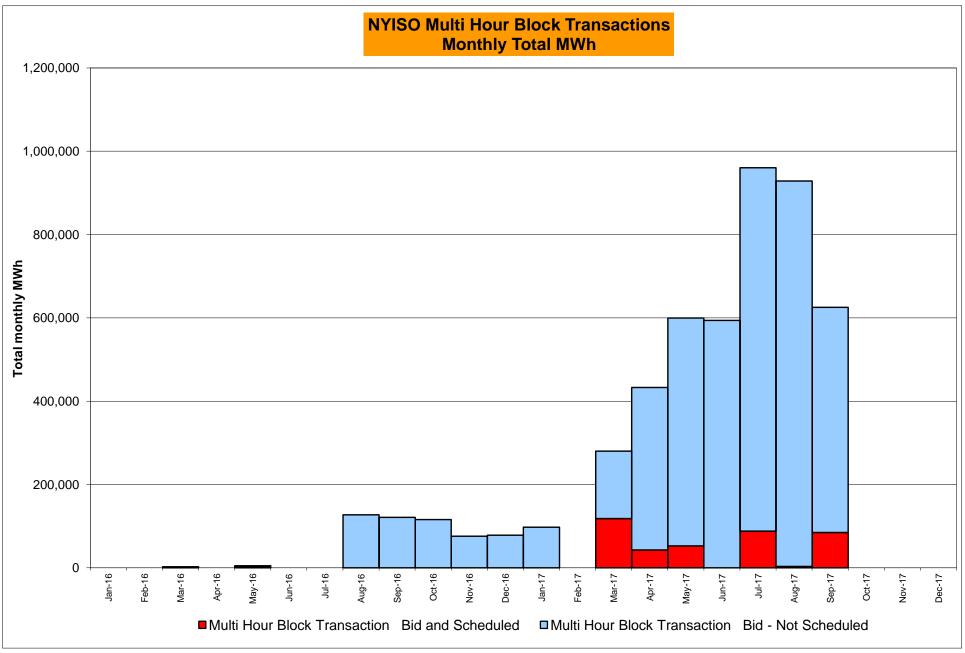
#### NYISO Virtual Trading Average MWh per day

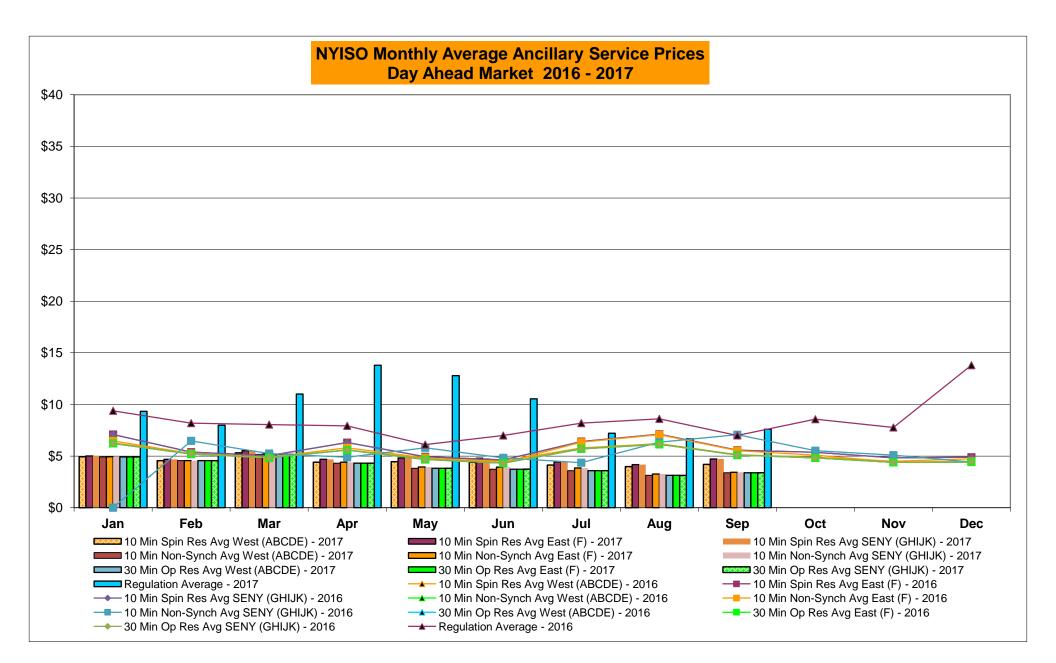


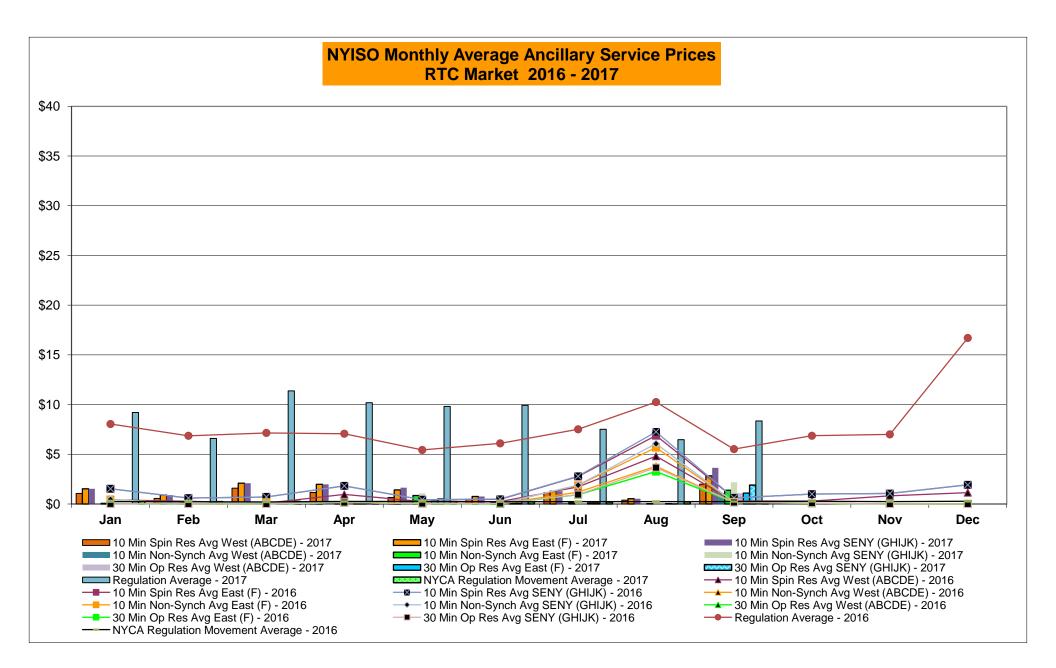


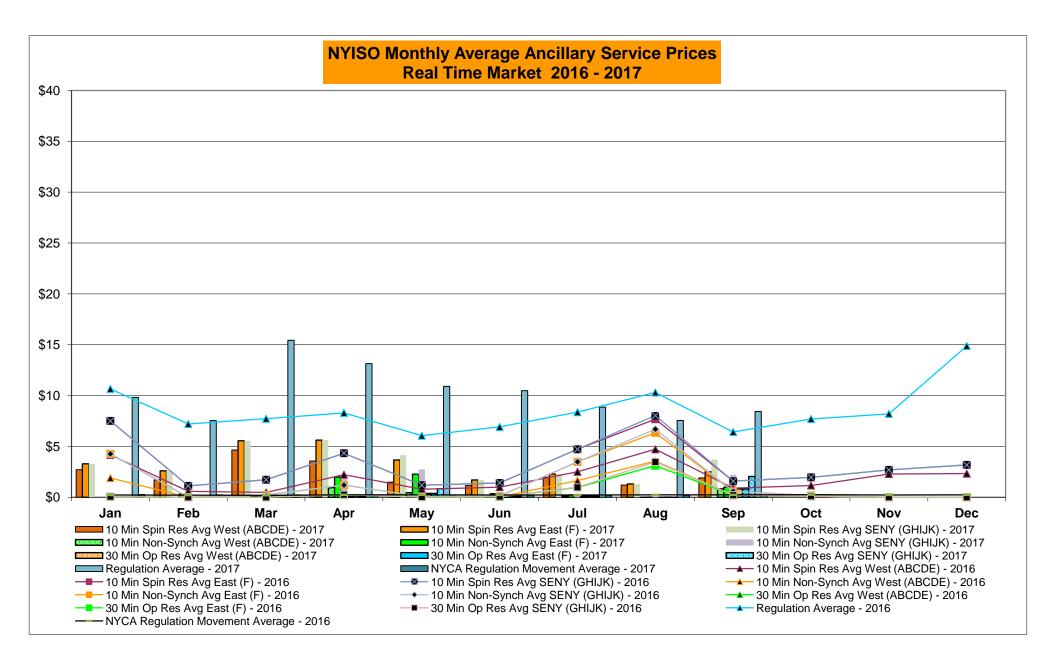
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2017

					<u>virtual i</u>		Supp	<u>Diy Zonai</u>	Statistic	s (Avera	ge www.	day) - 201	<u> </u>				
		Virtual L		Virtual Su			1	Virtual L	oad Bid	Virtual Su				Virtual L	oad Bid	Virtual Su	
7000	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
Zone WEST	Jan-17		5,795	2,019	337	MHK VL	Jan-17			2,022		DUNWOD			832	5,708	389
WEST	Feb-17		4,772	3,346	567		Feb-17			2,022		DOINWOL	Feb-17		585	5,966	424
	Mar-17		4,960	2,386	616		Mar-17			3,594			Mar-17	436	763	4,871	439
	Apr-17			1,934	699		Apr-17			2,856			Apr-17		406	3,517	232
	May-17			1,261	546		May-17			2,786			May-17		155	1,863	232 276
	Jun-17	10,776	5,128	1,497	512		Jun-17	516	149	2,492	586		Jun-17	1,117	287	3,281	383
	Jul-17	10,883	6,588	2,341	538		Jul-17			3,324			Jul-17		281	2,848	246
	Aug-17			3,043	595		Aug-17			2,915			Aug-17		500	2,611	160
	Sep-17		6,774	1,056	334		Sep-17		125	2,432	892		Sep-17		526	2,397	469
	Oct-17						Oct-17						Oct-17				
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				
GENESE	Jan-17		1,282	3,652	2,482	CAPITL	Jan-17	1,291	666	3,990	3,861	N.Y.C.	Jan-17		5,474	1,543	1,008
	Feb-17			3,782	3,206		Feb-17	,		3,432			Feb-17	,	5,309	1,712	1,219
	Mar-17			3,806	3,419		Mar-17	,		5,186			Mar-17		5,826	1,561	1,058
	Apr-17			4,074	2,880		Apr-17			5,589			Apr-17		4,331	1,161	529
	May-17			4,096	2,027		May-17			5,697	1,635		May-17		4,679	1,434	569
	Jun-17			2,920	2,119		Jun-17			6,479			Jun-17		4,163	1,050	608
	Jul-17			3,494	1,622		Jul-17			5,972			Jul-17		2,726	1,728	902
	Aug-17			3,186 2,105	1,912 1,132		Aug-17			6,112 4,943			Aug-17		2,890 3,937	1,284 1,972	430 1,027
	Sep-17 Oct-17		230	2,105	1,132		Sep-17 Oct-17		240	4,943	2,420		Sep-17 Oct-17		3,937	1,972	1,027
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				
NORTH	Jan-17	655	316	6,415	3,473	HUD VL	Jan-17	911	817	5,317	3,064	LONGIL	Jan-17	3,559	3,788	1,354	1,367
	Feb-17			7,504	4,006		Feb-17			6,266		LONGIE	Feb-17		3,100	1,653	1,667
	Mar-17			7,227	4,576		Mar-17			5,427			Mar-17				1,463
	Apr-17		-	7,520	4,435		Apr-17		,	5,708	,		Apr-17	,	3,309	1,748	1,232
	May-17		280	7,848	2,436		May-17		1,006	6,608			May-17		2,893	1,740	
	Jun-17	552	468	6,955	2,920		Jun-17	836	823	6,861	3,317		Jun-17	4,848	2,532	1,402	1,398
	Jul-17			6,883	2,889		Jul-17			6,184			Jul-17		2,137	1,320	1,535
	Aug-17			7,799	4,744		Aug-17			7,576			Aug-17		2,711	1,379	1,012
	Sep-17		396	6,315	5,216		Sep-17		1,874	5,422	4,625		Sep-17		3,980	1,355	645
	Oct-17						Oct-17						Oct-17				
	Nov-17						Nov-17 Dec-17						Nov-17 Dec-17				
	Dec-17						Dec-17						Dec-17				
CENTRL	Jan-17	1,482		22,561	196	MILLWD	Jan-17			1,422		NYISO	Jan-17	21,713	19,719	56,001	16,436
	Feb-17		177	20,639	320		Feb-17			1,555			Feb-17		16,406	58,312	19,537
	Mar-17			18,610	518		Mar-17			1,452			Mar-17	,	19,002	56,078	17,759
	Apr-17				519		Apr-17			1,228			Apr-17		16,586	65,484	15,411
	May-17				312		May-17			1,474			May-17		16,222	65,531	11,774
	Jun-17				380		Jun-17			2,019			Jun-17		15,820	70,160	14,480
	Jul-17		435		303		Jul-17			1,865			Jul-17		15,396	68,136	15,732
	Aug-17 Sep-17			25,045 26,053	258 381		Aug-17 Sep-17			1,923 1,815			Aug-17 Sep-17		15,550 18,933	62,874 55,865	17,809 17,846
	Oct-17		291	20,000	501		Oct-17		501	1,013	701		Oct-17		10,900	55,005	17,040
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				





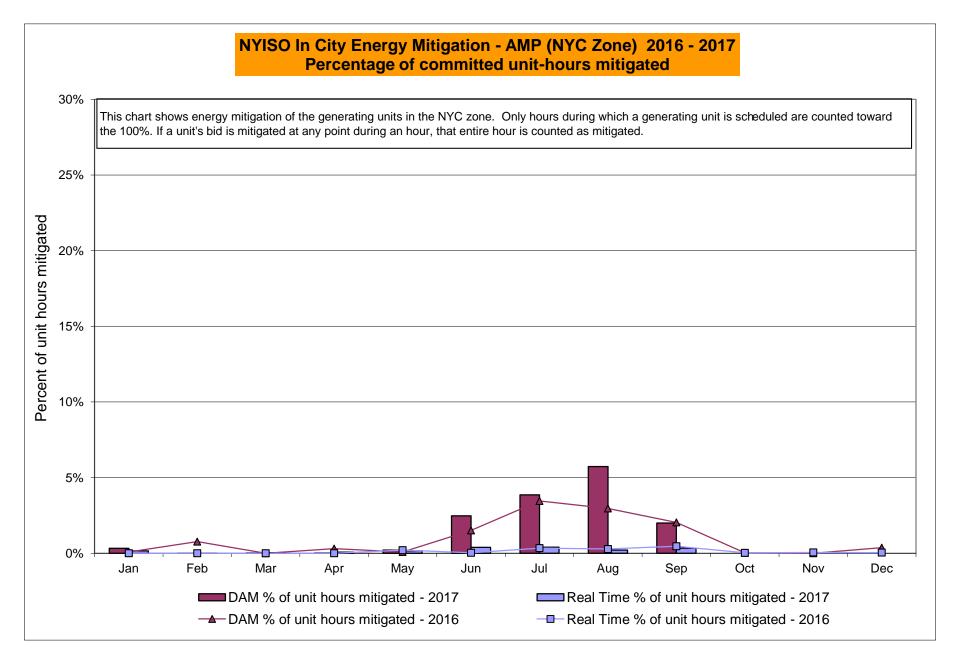


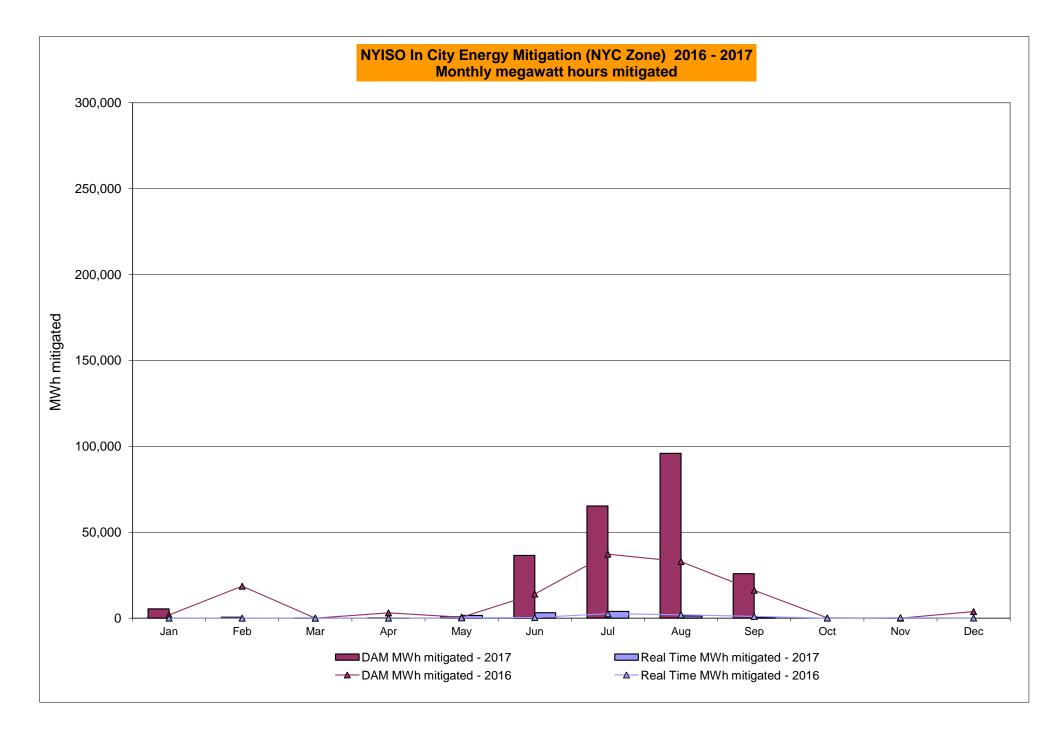


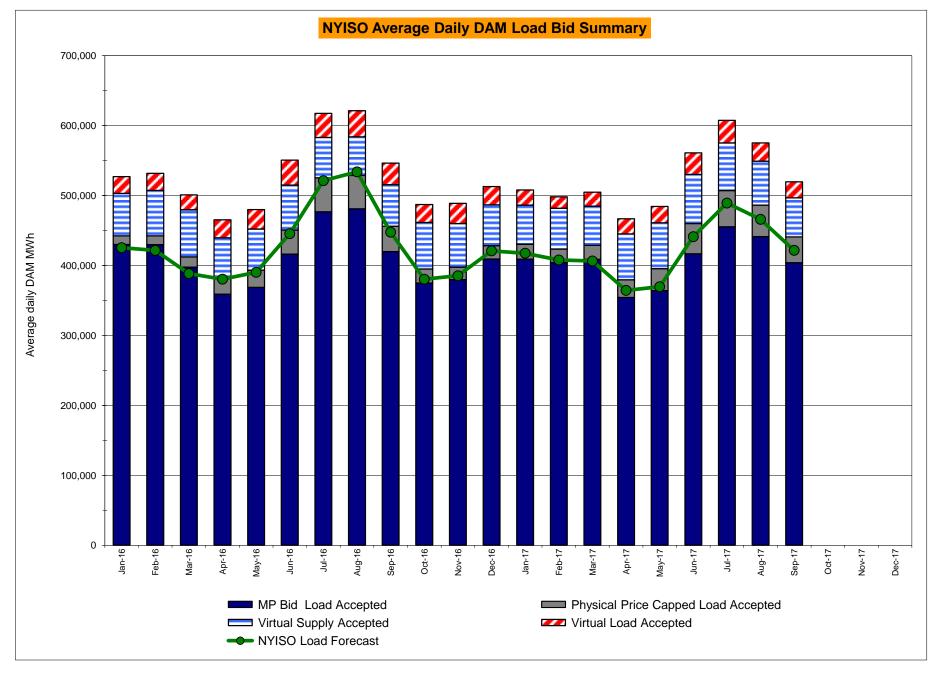
# NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

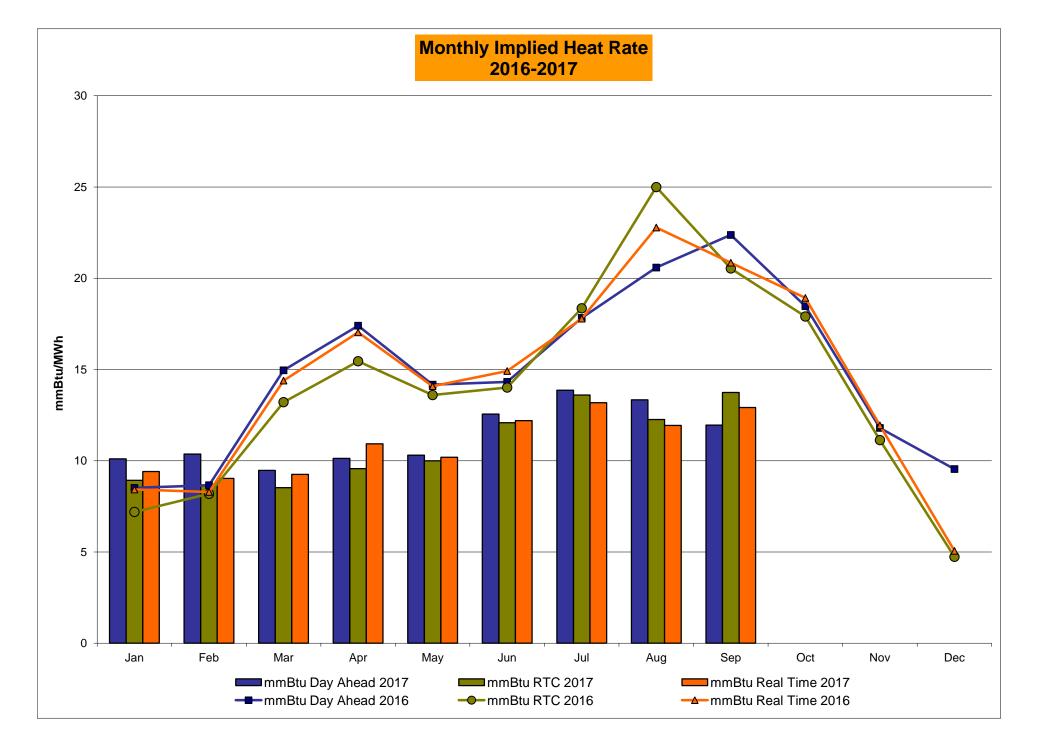
			,		<u> 3181151165</u>	011110	
2017	<u>January</u>	February	March	<u>April</u>	May	June	July
Day Ahead Market	<u></u>	<u> </u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
10 Min Spin SENY (GHIJK)	5.01	4.68	5.53	4.68	4.82	4.79	4.44
10 Min Spin East (F)	5.01	4.68	5.53	4.68	4.82	4.79	4.44
10 Min Spin West (ABCDE)	4.94	4.56	5.31	4.41	4.45	4.39	4.13
10 Min Non Synch SENY (GHIJK)	4.94	4.57	5.20	4.41	3.95	3.92	3.85
10 Min Non Synch East (F)	4.94	4.57	5.20	4.41	3.95	3.92	3.85
10 Min Non Synch West (ABCDE)	4.92	4.56	5.17	4.31	3.82	3.73	3.59
30 Min SENY (GHIJK)	4.92	4.56	5.17	4.31	3.82	3.73	3.59
30 Min East (F)	4.92	4.56	5.17	4.31	3.82	3.73	3.59
30 Min West (ABCDE)	4.92	4.56	5.17	4.31	3.82	3.73	3.59
Regulation	9.34	7.99	11.01	13.80	12.79	10.55	7.22
•	3.54	1.55	11.01	15.00	12.79	10.55	1.22
RTC Market							
10 Min Spin SENY (GHIJK)	1.53	0.89	2.08	1.97	1.64	0.75	1.28
10 Min Spin East (F)	1.53	0.89	2.08	1.97	1.41	0.75	1.28
10 Min Spin West (ABCDE)	1.06	0.55	1.58	1.16	0.65	0.47	1.13
10 Min Non Synch SENY (GHIJK)	0.06	0.06	0.10	0.14	1.08	0.13	0.13
10 Min Non Synch East (F)	0.06	0.06	0.10	0.14	0.85	0.13	0.13
10 Min Non Synch West (ABCDE)	0.00	0.00	0.10	0.07	0.31	0.05	0.11
30 Min SENY (GHIJK)	0.00	0.00	0.10	0.03	0.50	0.05	0.11
30 Min East (F)	0.00	0.00	0.10	0.03	0.27	0.05	0.11
30 Min West (ABCDE)	0.00	0.00	0.10	0.03	0.27	0.05	0.11
Regulation	9.21	6.59	11.37	10.18	9.82	9.92	7.51
NYCA Regulation Movement	0.27	0.24	0.25	0.22	0.24	0.21	0.19
NTCA Regulation movement	0.27	0.24	0.25	0.22	0.24	0.21	0.19
Real Time Market							
10 Min Spin SENY (GHIJK)	3.29	2.61	5.56	5.62	4.14	1.71	2.29
10 Min Spin East (F)	3.29	2.61	5.56	5.62	3.67	1.71	2.29
10 Min Spin West (ABCDE)	2.71	1.71	4.65	3.56	1.48	1.15	1.98
10 Min Non Synch SENY (GHIJK)	0.00	0.31	0.17	1.99	2.75	0.36	0.23
10 Min Non Synch East (F)	0.00	0.31	0.17	1.99	2.28	0.36	0.23
10 Min Non Synch West (ABCDE)	0.00	0.00	0.13	0.95	0.44	0.10	0.13
30 Min SENY (GHIJK)	0.00	0.00	0.12	0.06	0.85	0.10	0.13
30 Min East (F)	0.00	0.00	0.12	0.06	0.38	0.10	0.13
30 Min West (ABCDE)	0.00	0.00	0.12	0.06	0.38	0.10	0.13
Regulation	9.83	7.54	15.44	13.15	10.91	10.48	8.87
NYCA Regulation Movement				0.20			
NFCA Regulation Movement	0.27	0.24	0.25	0.20	0.22	0.19	0.19
2016	January	<u>February</u>	March	<u>April</u>	May	June	July
Day Ahead Market	January	rebruary	<u>Iviai cri</u>	April	iviay	June	July
	7.00	E 20	E 04	6.04	4.02	4.60	C 11
10 Min Spin SENY (GHIJK)	7.09	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin East (F)	7.09	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin East (F) 10 Min Spin West (ABCDE)	7.09 6.28	5.38 5.25	5.04 4.84	6.31 5.60	4.93 4.77	4.62 4.52	6.41 5.78
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	7.09 6.28 6.47	5.38 5.25 5.25	5.04 4.84 4.88	6.31 5.60 5.80	4.93 4.77 4.83	4.62 4.52 4.36	6.41 5.78 6.34
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	7.09 6.28 6.47 6.47	5.38 5.25 5.25 5.25	5.04 4.84 4.88 4.88	6.31 5.60 5.80 5.80	4.93 4.77 4.83 4.83	4.62 4.52 4.36 4.36	6.41 5.78 6.34 6.34
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 6.28 6.47 6.47 6.23	5.38 5.25 5.25 5.25 5.25 5.20	5.04 4.84 4.88 4.88 4.88	6.31 5.60 5.80 5.80 5.58	4.93 4.77 4.83 4.83 4.68	4.62 4.52 4.36 4.36 4.32	6.41 5.78 6.34 6.34 5.72
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 6.28 6.47 6.47 6.23 6.23	5.38 5.25 5.25 5.25 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84	6.31 5.60 5.80 5.80 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.52 4.36 4.36 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70
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 6.28 6.47 6.47 6.23 6.23 6.23 6.23	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84	6.31 5.60 5.80 5.80 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70 5.70
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 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67	4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70
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 6.28 6.47 6.47 6.23 6.23 6.23 6.23	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84	6.31 5.60 5.80 5.80 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70 5.70
<ul> <li>10 Min Spin East (F)</li> <li>10 Min Spin West (ABCDE)</li> <li>10 Min Non Synch SENY (GHIJK)</li> <li>10 Min Non Synch East (F)</li> <li>10 Min Non Synch West (ABCDE)</li> <li>30 Min SENY (GHIJK)</li> <li>30 Min East (F)</li> <li>30 Min West (ABCDE)</li> <li>Regulation</li> </ul>	7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67	4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70
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 <u>RTC Market</u>	7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 5.58 7.93	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32 7.00	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19
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 <u>RTC Market</u> 10 Min Spin SENY (GHIJK)	7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79
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 <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 5.58 7.93	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77
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 <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	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 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14	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	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	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	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17	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	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 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	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	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00	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	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 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 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 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00	$\begin{array}{c} 6.31 \\ 5.60 \\ 5.80 \\ 5.80 \\ 5.58 \\ 5.58 \\ 5.58 \\ 5.58 \\ 5.58 \\ 7.93 \\ \end{array}$ $\begin{array}{c} 1.81 \\ 1.81 \\ 0.95 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \end{array}$	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 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04	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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 SENY (GHIJK) 30 Min East (F)	$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 5.25 5.25 5.20 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	$\begin{array}{c} 6.31 \\ 5.60 \\ 5.80 \\ 5.80 \\ 5.58 \\ 5.58 \\ 5.58 \\ 5.58 \\ 7.93 \\ \end{array}$ $\begin{array}{c} 1.81 \\ 1.81 \\ 0.95 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \\ 0.14 \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$ $\begin{array}{c} 0.43 \\ 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02	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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 East (F) 30 Min West (ABCDE)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 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 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.08 0.17 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93\\ 4.77\\ 4.83\\ 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ \end{array}$	4.62 4.52 4.36 4.32 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	6.41 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93\\ 4.77\\ 4.83\\ 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ \end{array}$	4.62 4.52 4.36 4.32 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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 East (F) 30 Min West (ABCDE)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 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 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.08 0.17 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93\\ 4.77\\ 4.83\\ 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ \end{array}$	4.62 4.52 4.36 4.32 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	6.41 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93\\ 4.77\\ 4.83\\ 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ \end{array}$	4.62 4.52 4.36 4.32 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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 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 <b>Real Time Market</b>	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93\\ 4.77\\ 4.83\\ 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ \end{array}$	4.62 4.52 4.36 4.32 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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement <b>Real Time Market</b> 10 Min Spin SENY (GHIJK)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.04 0.04 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.52 4.36 4.32 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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 <b>Real Time Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}$ $\begin{array}{c} 7.51\\ 7.51\\ 7.51\end{array}$	5.38 5.25 5.25 5.20 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$ $\begin{array}{c} 0.43 \\ 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 5.43 \\ 0.25 \\ \end{array}$ $\begin{array}{c} 1.19 \\ 1.19 \\ 1.19 \end{array}$	4.62 4.52 4.36 4.32 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 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 4.73 4.72
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 <b>Real Time Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (ABCDE)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}$ $\begin{array}{c} 7.51\\ 7.51\\ 4.17\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\ 0.58\\ 0.21\\ 1.12\\ 1.12\\ 0.58\\ \end{array}$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.71 0.08 0.17 0.71 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$ $\begin{array}{c} 0.43 \\ 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 5.43 \\ 0.25 \\ \end{array}$ $\begin{array}{c} 1.19 \\ 1.19 \\ 1.19 \\ 0.79 \\ \end{array}$	4.62 4.52 4.36 4.32 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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement <b>Real Time Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.07 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 1.73 1.73 0.48 0.22	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement <b>Real Time Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 1.73 1.73 0.48 0.22 0.22	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>ETC Market</b> 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 SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement <b>Exel Time Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement <b>Exel Time Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 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 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$ $\begin{array}{c} 0.43 \\ 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 5.43 \\ 0.25 \\ \end{array}$ $\begin{array}{c} 1.19 \\ 1.19 \\ 1.19 \\ 0.79 \\ 0.06 \\ 0.06 \\ 0.03 \\ \end{array}$	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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>ETC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min West (ABCDE) Regulation NYCA Regulation Movement <b>Exel Time Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement <b>Exel Time Market</b> 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 Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.00\\ 0.01\\ 0.00\\ 0.$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.20 0.22 0.00 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0	$ \begin{array}{c} 6.41 \\ 5.78 \\ 6.34 \\ 6.34 \\ 5.72 \\ 5.70 \\ 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 \\ \end{array} $
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 NYCA Regulation Movement <b>Real Time Market</b> 10 Min Spin East (F) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 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 East (F) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SE	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 1.73 1.73 0.48 0.22 0.22 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 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 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
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 <b>Real Time Market</b> 10 Min Spin West (ABCDE) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement <b>Real Time Market</b> 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 SENY (GHIJK) 30 Min SENY (GHIJK)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 1.73 1.73 1.73 0.48 0.22 0.22 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 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 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 0.97
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 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 <b>Real Time Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement <b>Real Time Market</b> 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 SENY (GHIJK) 30 Min Non Synch West (ABCDE) 30 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 0.00 1.73 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.715 0.20	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 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 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 0.97 0.97 8.37
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <b>RTC Market</b> 10 Min Spin SENY (GHIJK) 10 Min Spin 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 <b>Real Time Market</b> 10 Min Spin West (ABCDE) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement <b>Real Time Market</b> 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 SENY (GHIJK) 30 Min SENY (GHIJK)	$\begin{array}{c} 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 1.73 1.73 1.73 0.48 0.22 0.22 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 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 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 0.97

<u>ice (\$/</u>	<u>MWH)</u>			
<u>August</u>	September	<u>October</u>	November	December
4.18 4.18 3.98 3.26 3.26 3.13 3.13 3.13 3.13 3.13 6.67	4.72 4.72 4.19 3.43 3.43 3.39 3.39 3.39 3.39 3.39 7.60			
0.52 0.52 0.38 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	3.63 2.83 1.99 2.18 1.38 1.09 1.09 1.09 1.09 8.35 0.21			
$   \begin{array}{r}     1.31 \\     1.31 \\     1.20 \\     0.01 \\     0.01 \\     0.01 \\     0.01 \\     0.01 \\     7.56 \\     0.20 \\   \end{array} $	$\begin{array}{c} 3.72 \\ 2.51 \\ 1.91 \\ 2.21 \\ 1.00 \\ 0.83 \\ 2.05 \\ 0.83 \\ 0.83 \\ 8.44 \\ 0.21 \end{array}$			
<u>August</u>	<u>September</u>	<u>October</u>	November	December
7.12 7.12 6.20 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 5.10 7.00	5.37 5.37 4.89 5.09 5.09 4.82 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 4.39 7.77	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43 13.80
7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24	0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 0.15 5.52 0.24	0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.26	$   \begin{array}{r}     1.05 \\     1.05 \\     0.82 \\     0.00 \\     0.00 \\     0.00 \\     0.00 \\     0.00 \\     0.00 \\     7.00 \\     0.24 \\   \end{array} $	$     1.92 \\     1.92 \\     1.14 \\     0.00 \\     0.00 \\     0.00 \\     0.00 \\     0.00 \\     16.70 \\     0.26     $
8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 3.12 10.31 0.24	$\begin{array}{c} 1.59 \\ 1.59 \\ 0.90 \\ 0.59 \\ 0.59 \\ 0.21 \\ 0.21 \\ 0.21 \\ 0.21 \\ 0.21 \\ 6.42 \\ 0.24 \end{array}$	1.96 1.96 1.16 0.18 0.18 0.11 0.11 0.11 0.11 7.70 0.26	2.69 2.69 2.29 0.00 0.00 0.00 0.00 0.00 0.00 8.21 0.23	$\begin{array}{c} 3.18\\ 3.18\\ 2.33\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 14.88\\ 0.24 \end{array}$

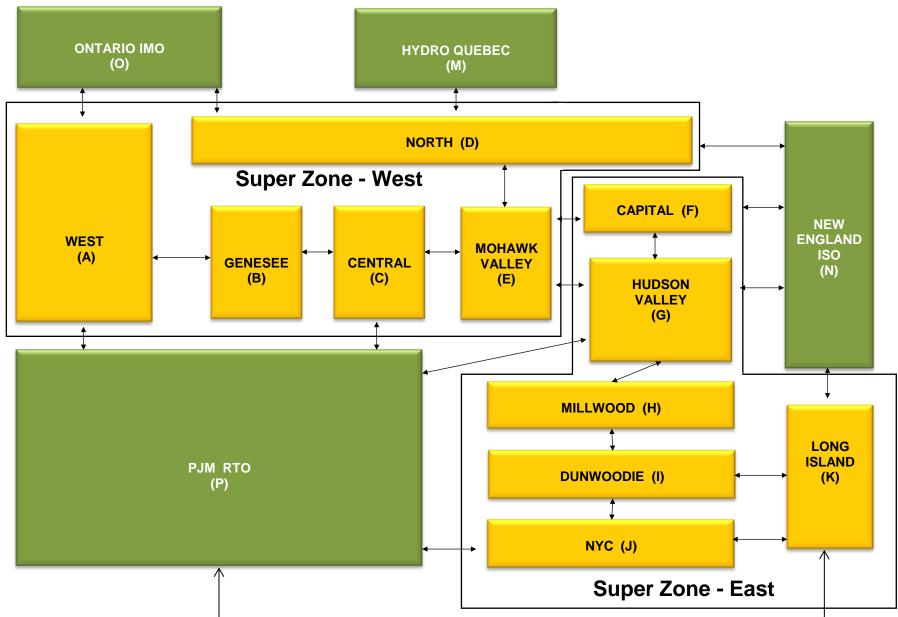






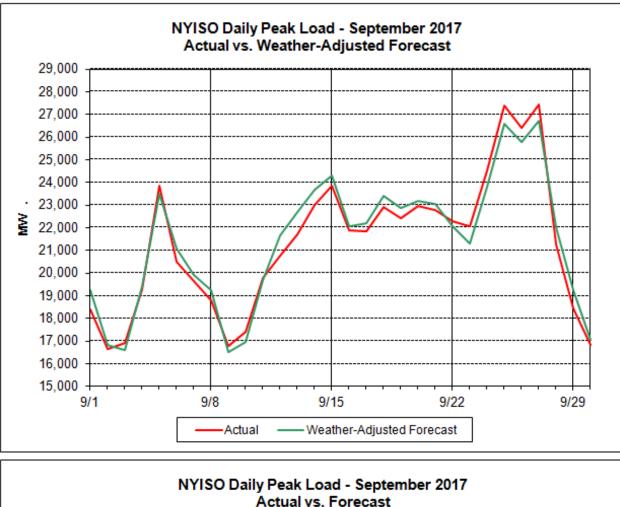


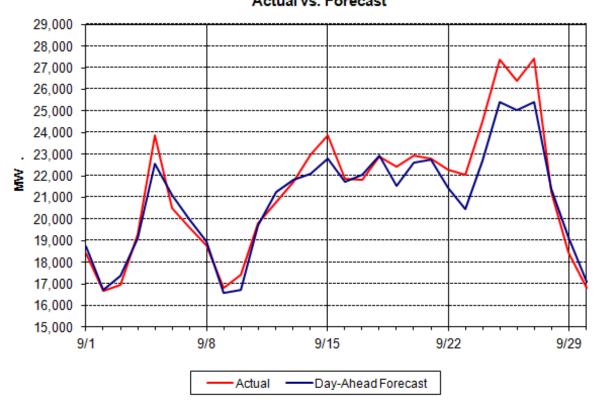
# NYISO LBMP ZONES

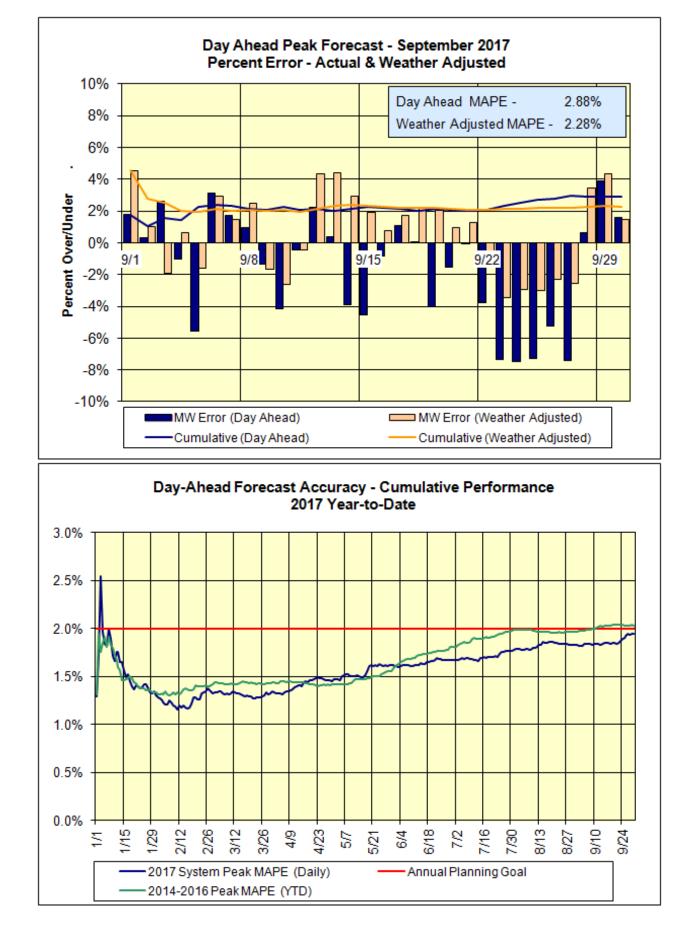


#### **Billing Codes for Chart C**

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







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

Filing Date	Filing Summary	Docket	Order Date	Order Summary
01/06/2017	NYISO tariff waiver request re: transmission constraint pricing and the definition of Transmission Shortage Cost	ER17-758-000	09/27/2017	Order granted the waiver request effective from 02/11/2016 to 06/20/2017, as requested
06/08/2017	NYISO compliance filing re: two week advance notice of the effective date to implement i) a balance-of-period Transmission Congestion Contract ("TCC") auction structure; and (ii) enhancements to the credit requirements for TCCs	ER17-1167-001	09/12/2017	Order accepted revisions effective 06/22/2017 and 08/01/2017, as requested
06/21/2017 08/11/2017	NYISO 205 filing re: OATT Rate Schedule 1 revisions for Ramapo Phase Angle Regulator cost recovery	ER17-1879-000 ER17-1879-001	09/15/2017	Order accepted revisions effective 07/01/2017, as requested
07/14/2017	NYISO 205 filing re: revisions to the Buyer Side Mitigation ("BSM") rules governing the forecasts determined & used by the NYISO in the course of making determinations under the BSM Rules	ER17-2096-000	09/11/2017	Order accepted revisions effective 09/12/2017, as requested
07/18/2017	NYISO compliance filing re: notice of effective date re: tariff revisions to implement balance-of-period TCC auctions	ER17-1167-002	09/12/2017	Order accepted revisions effective 06/22/2017 and 08/01/2017, as requested
07/26/2017	NYISO 205 filing re: an executed large generator interconnection agreement (SA 2344) among the NYISO, LIPA and Shoreham Solar Commons LLC	ER17-2151-000	09/08/2017	Order accepted the agreement effective 07/11/2017, as requested
08/04/2017	NYISO 205 filing re: OATT Rate Schedule 1 amendments to remove the cost recovery mechanism for the Bunce Creek Phase Angle Regulators	ER17-2240-000	09/20/2017	Order accepted revisions effective 10/03/2017, as requested
08/11/2017	NYISO 205 filing re: tariff revisions addressing the testing of automated fuel swap capability	ER17-2286-000	09/20/2017	Order accepted revisions effective 11/01/2017, as requested
09/01/2017	NYISO filing motion to intervene & protest re: PJM filing proposing "Tariff and Operating Agreement Revisions Regarding Dynamic Transfers" (pseudo-tie arrangements)	ER17-2291-000		
09/14/2017	NYISO confidential filing to the NYPSC re: NYISO's three- month Reliability Commitment Data Report for the period ending 08/31/2017	PSC Matter No. 10-002007		

	NYISO filing of an answer to NRG's limited protest re: tariff revisions concerning the testing requirements for generating units participating in the Consolidated Edison		
09/14/2017	System Restoration Plan	ER17-2271-000	