

Monthly Report

March 2017



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Operations Performance Metrics Monthly Report



March 2017 Report

Operations & Reliability Department New York Independent System Operator



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March 2017 Operations Performance Highlights

- Peak load of 21,689 MW occurred on 03/15/2017 HB 19
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 2.3 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- On 03/08/2017 there was a high wind storm event that led to multiple transmission line outages. West Zone generation and Ontario imports were reduced to manage system reliability.
- NYISO achieved a wind energy record of 1,574 MW on 03/02/2017 HB12 providing 9% of the state's power generation.
- 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	\$2.93	\$5.46
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.10)	(\$0.07)
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.14)	(\$0.56)
Total NY Savings	\$2.69	\$4.83
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.26	\$0.46
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.12	\$0.28
Total Regional Savings	\$0.38	\$0.74

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

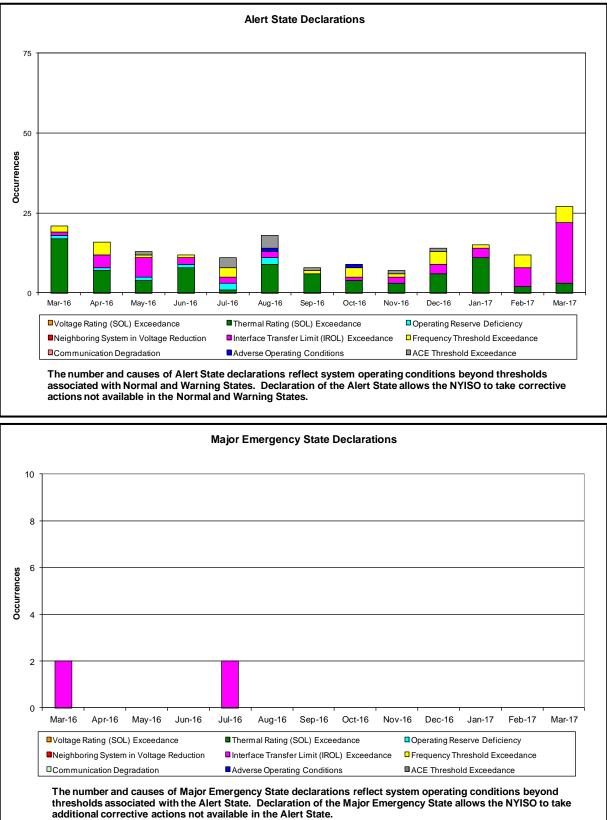
delta

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
April 2017 Spot Price	\$0.35	\$3.25	\$3.25	\$0.35
March 2017 Spot Price	\$0.71	\$3.30	\$3.30	\$0.71
Delta	(\$0.36)	(\$0.05)	(\$0.05)	(\$0.36)

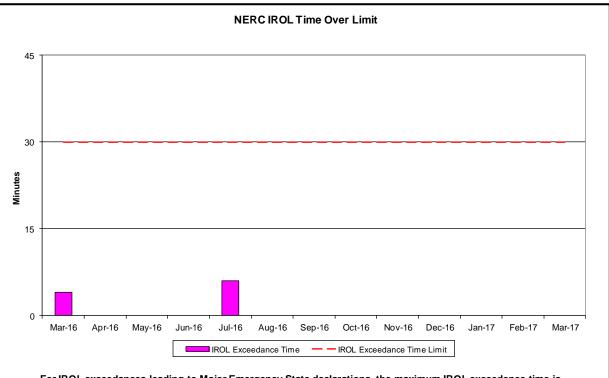
- NYCA Price decreases by \$0.36 due to increase in generator UCAP available and imports.
- NYCA Price converged with the LI Price
- LHV Price converged with the NYC Price



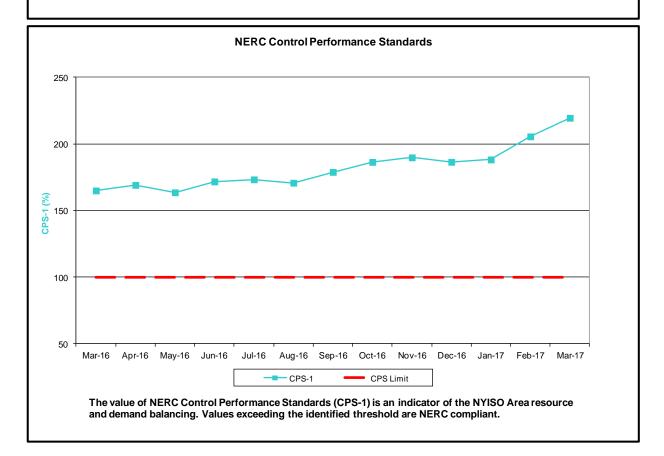
• Reliability Performance Metrics



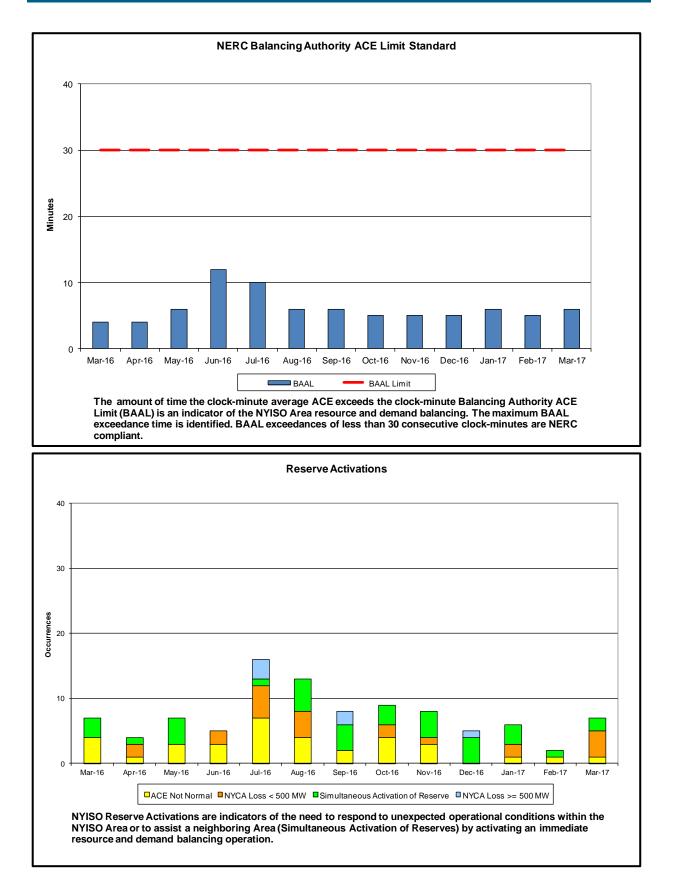




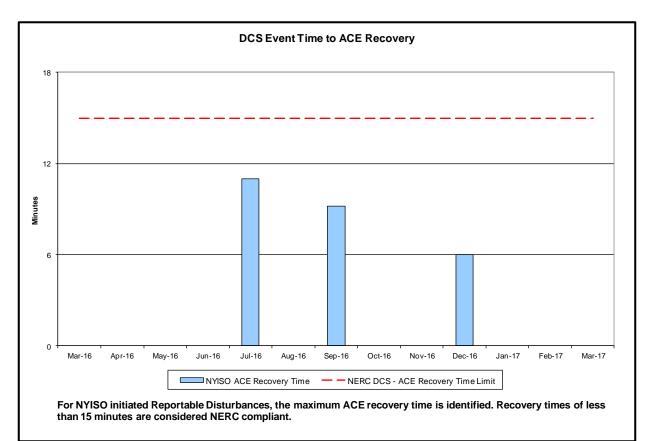
For IROL exceedances leading to Major Emergency State declarations, the maximum IROL exceedence time is identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

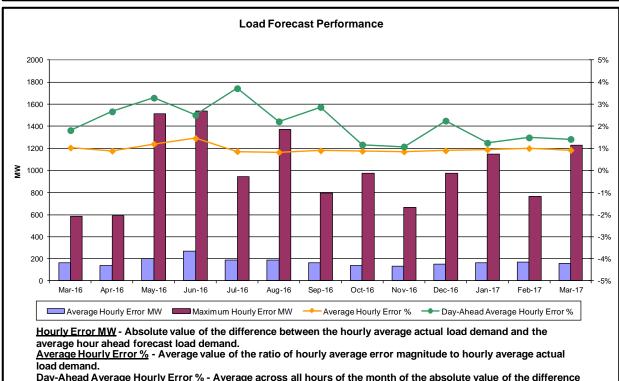






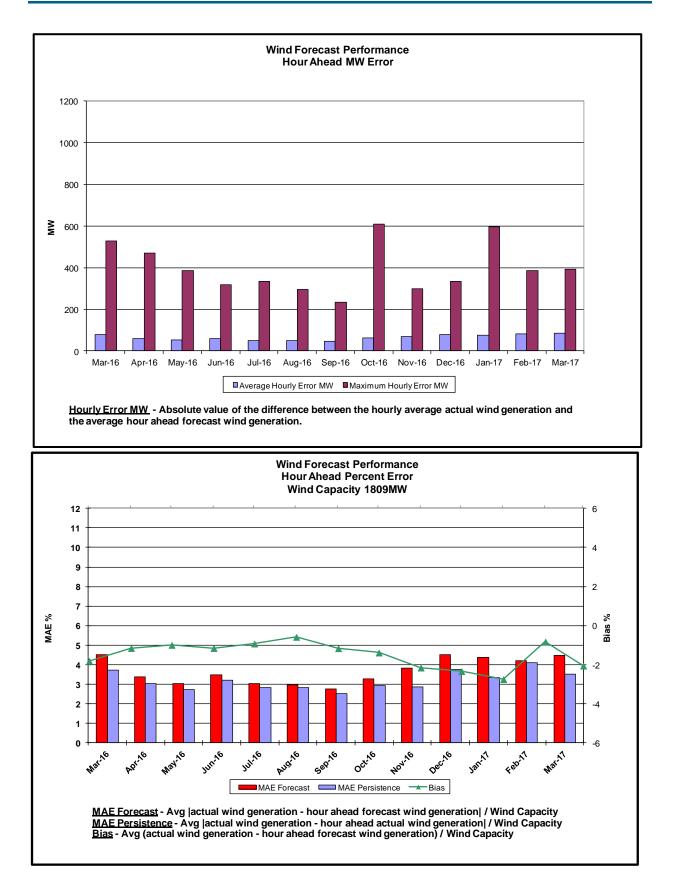




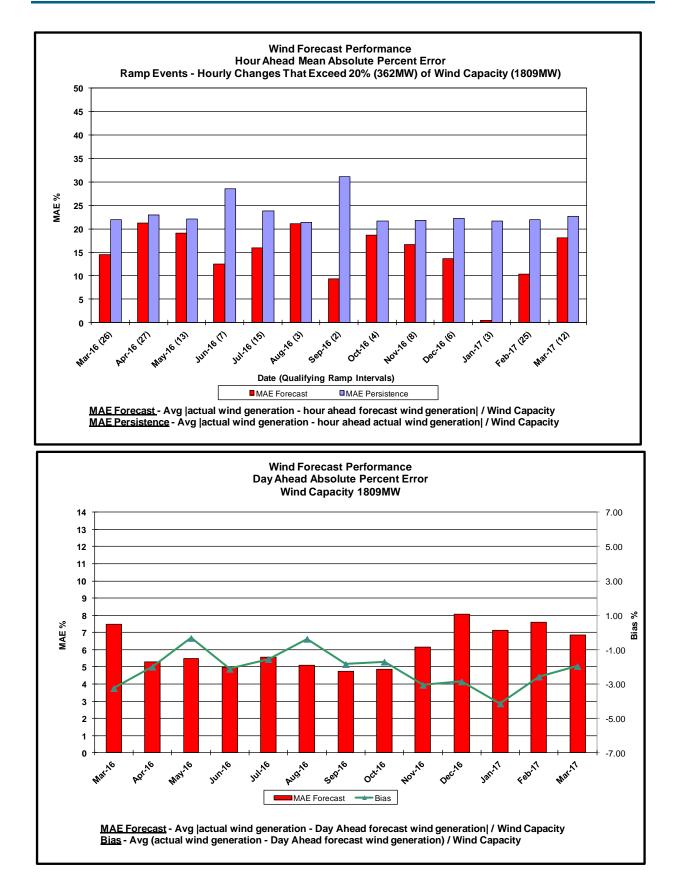


Day-Ahead Average Hourly Error % - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

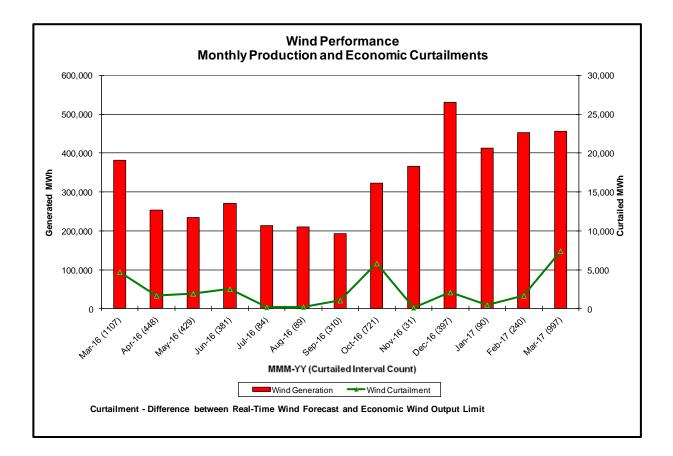




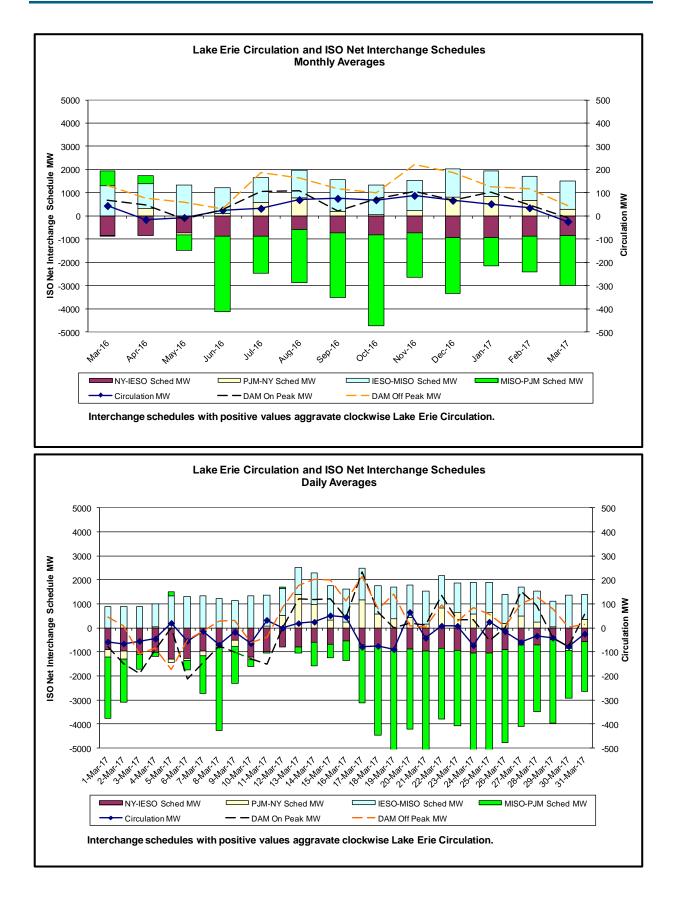














\$100

\$0

3/1/2017

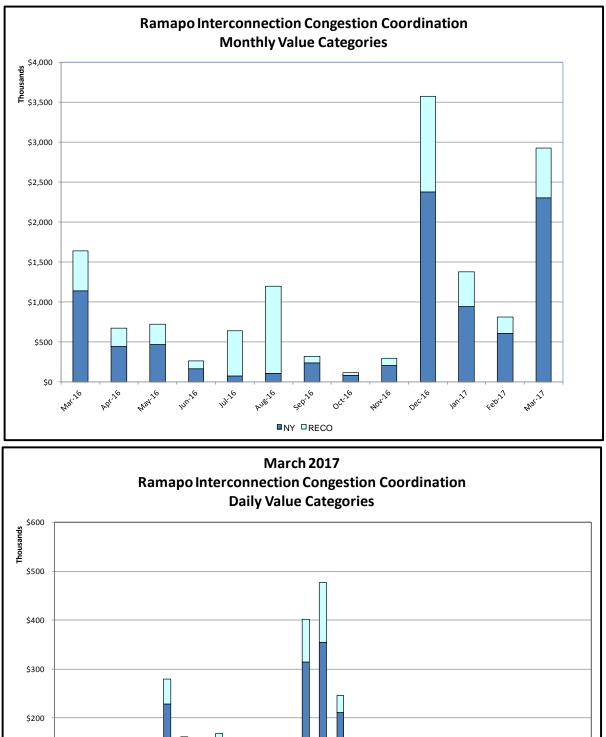
3/2/2017 3/3/2017 3142017 3/5/2017

3/7/2017 1-3/8/2017

362017

3/10/2017 JIL 31212021 31222027 313201 3142027

13/9/2017



Broader Regional Market Performance Metrics

■NY ■RECO

-"311712017 1/2/18/2017 31912017

3/21/2017

32012017

11 312212017 212312312027

-"-"312512017 3/26/2027 3/27/2027 · '2/28/2027

312912017

313012017

3/31/2017

"31512017 311512017 3/16/2017



Ramapo Interconnection Congestion Coordination

Category NY

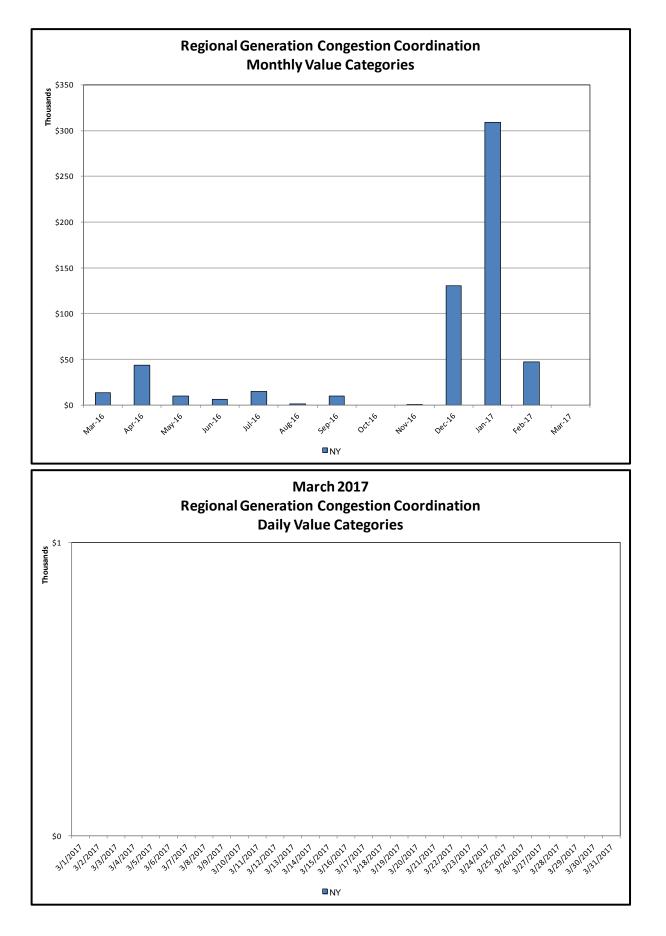
RECO

Description

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

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







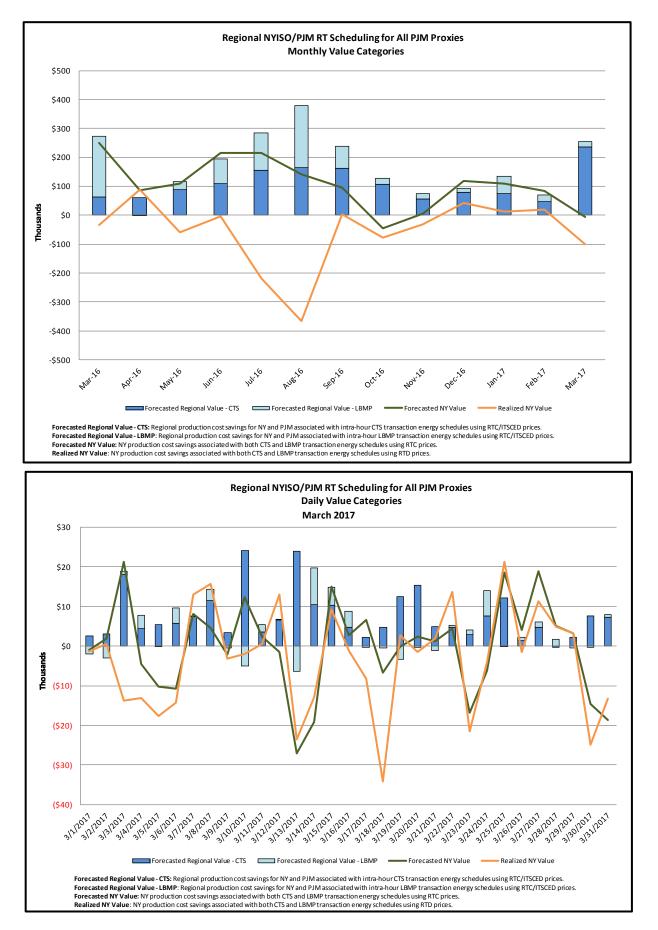
Regional Generation Congestion Coordination

<u>Category</u> NY

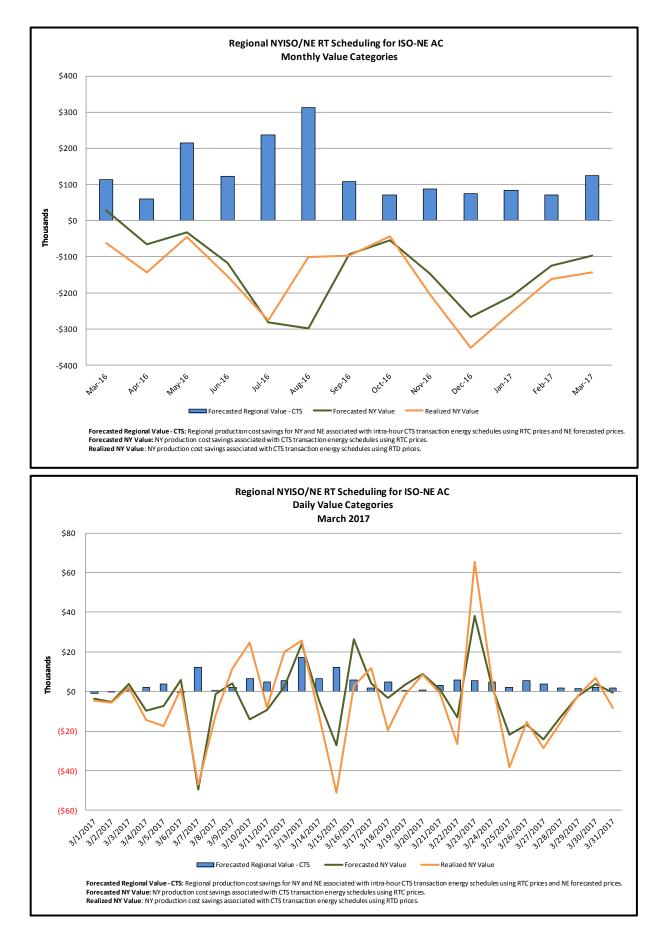
Description

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.



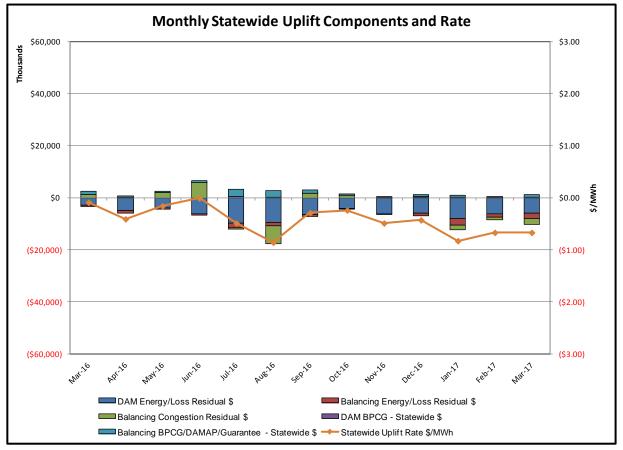




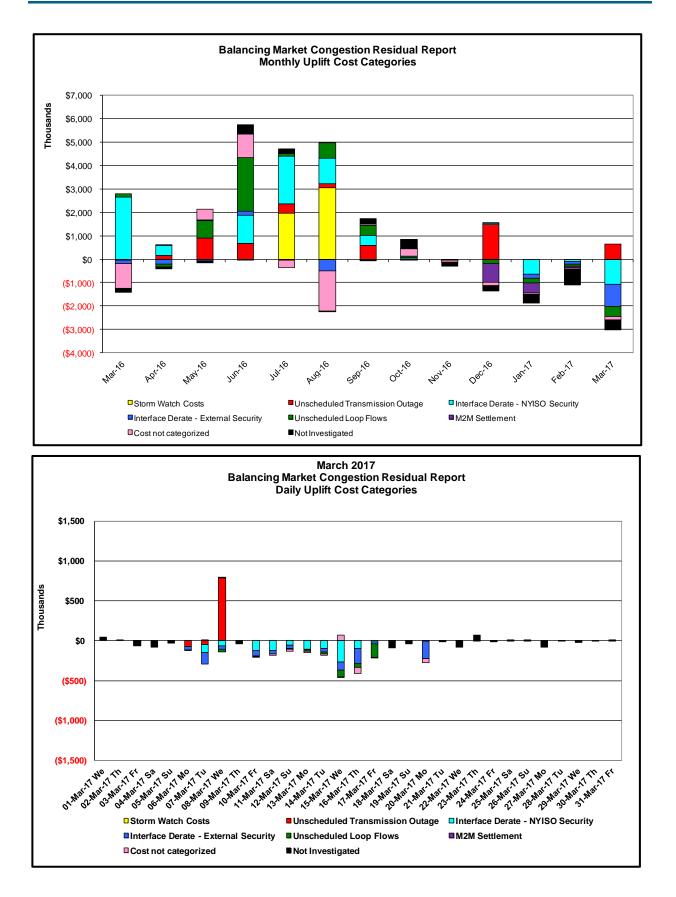




Market Performance Metrics









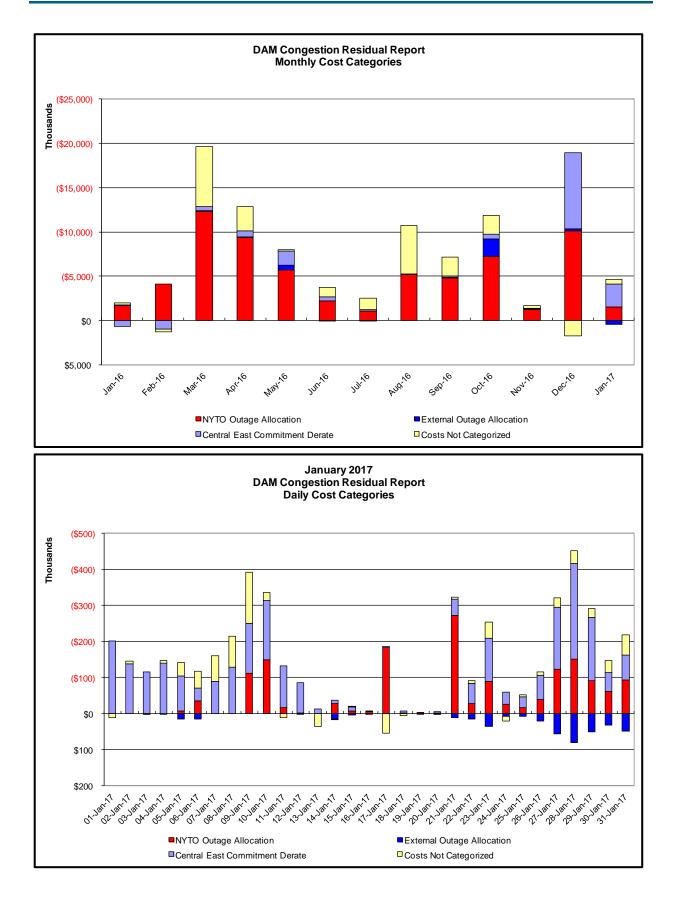
	5,7,8,10,11,12,13,14,15, Hours	Description
3/6/2017		Early return to service Edic - Fraser 345kV (#EF24-40)
3/6/2017		NE_AC DNI Ramp Limit
3/7/2017		Early return to service Edic - Fraser 345kV (#EF24-40)
3/7/2017		Uprate Central East
3/7/2017	,	NYCA DNI Ramp Limit
3/7/2017		NE_AC DNI Ramp Limit
3/8/2017		Early return to service Edic - Fraser 345kV (#EF24-40)
3/8/2017		Forced outage West Wind Event for multiple line outges
3/8/2017	0-4,8-11,13,23	Uprate Central East
3/8/2017	14,16	Derate MottHaven-Dunwoodie 345kV (#71) for I/o MottHaven-Dunwoodie 345kV (#
3/8/2017		IESO_AC-NY Schduling Limit HB16:\$5k, HB17:\$774k]
3/8/2017	0,3,4,9-11,23	NE_AC DNI Ramp Limit
3/8/2017	0,1,9-11	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
3/8/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kV (#
3/10/2017		NYCA DNI Ramp Limit
3/10/2017		Uprate Central East
3/10/2017		NE_AC DNI Ramp Limit
3/10/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
3/11/2017		NYCA DNI Ramp Limit
3/11/2017		Uprate Central East
3/11/2017		NE_AC DNI Ramp Limit
3/11/2017		NE_AC-NY Scheduling Limit
3/12/2017		NYCA DNI Ramp Limit
3/12/2017	0,1,3,4,13-15	Uprate Central East
3/12/2017	12-15	NE_AC-NY Scheduling Limit
3/12/2017	4	HQ_CHAT-NY Scheduling Limit
3/12/2017	0	PJM_AC DNI Ramp Limit
3/12/2017	13,14	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
3/13/2017	1.22.23	Uprate Central East
3/13/2017		NYCA DNI Ramp Limit
3/13/2017		HQ_CHAT-NY Scheduling Limit
3/13/2017		HQ_CEDARS-NY Scheduling Limit
3/13/2017		NE_AC-NY Scheduling Limit
3/13/2017		NE_AC DNI Ramp Limit
3/13/2017		PJM_AC DNI Ramp Limit
3/13/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
3/13/2017		NYCA DNI Ramp Limit
3/14/2017	0,1,3,11-16,19,21-23	
3/14/2017		NE_AC DNI Ramp Limit
3/14/2017		PJM_AC DNI Ramp Limit
3/14/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
3/15/2017		Uprate Central East
3/15/2017		NYCA DNI Ramp Limit
3/15/2017	4,15-23	NE_AC DNI Ramp Limit
3/15/2017	9	PJM_AC Scheduling Limit
3/15/2017		PJM_AC DNI Ramp Limit
		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
3/16/2017	0,1,4,6,7,15-17,23	
3/16/2017		NYCA DNI Ramp Limit
3/16/2017		NE AC DNI Ramp Limit
3/16/2017		PJM_AC DNI Ramp Limit
3/16/2017		
		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
3/17/2017		NYCA DNI Ramp Limit
3/17/2017		Uprate Central East
3/17/2017		NE_AC DNI Ramp Limit
3/17/2017		PJM_AC DNI Ramp Limit
3/17/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
3/20/2017	23	NYCA DNI Ramp Limit
3/20/2017	13-15,23	NE_AC-NY Scheduling Limit



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

<u>Category</u> Storm Watch	<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	<u>Event Examples</u> TSA Activations				
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages				
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages				
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments				
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Lake Erie Loop Flows exceeding +/- 125 MW				
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates					
Monthly Balancing Market Congestion Report Assumptions/Notes							
 Storm Watch Costs are identified as daily total uplift costs 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. Uplift costs associated with multiple event types are apportioned equally by hour 							

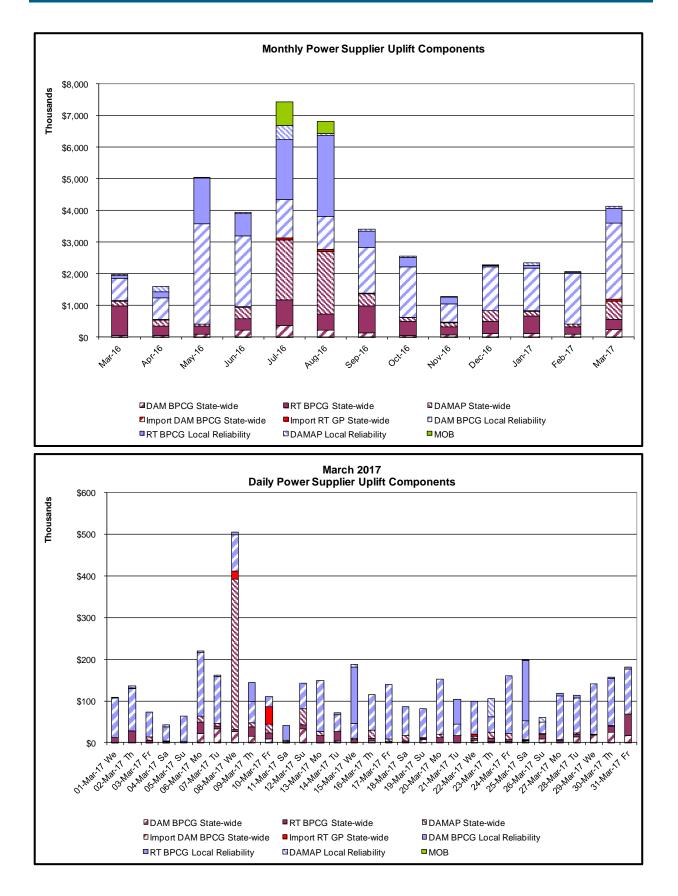




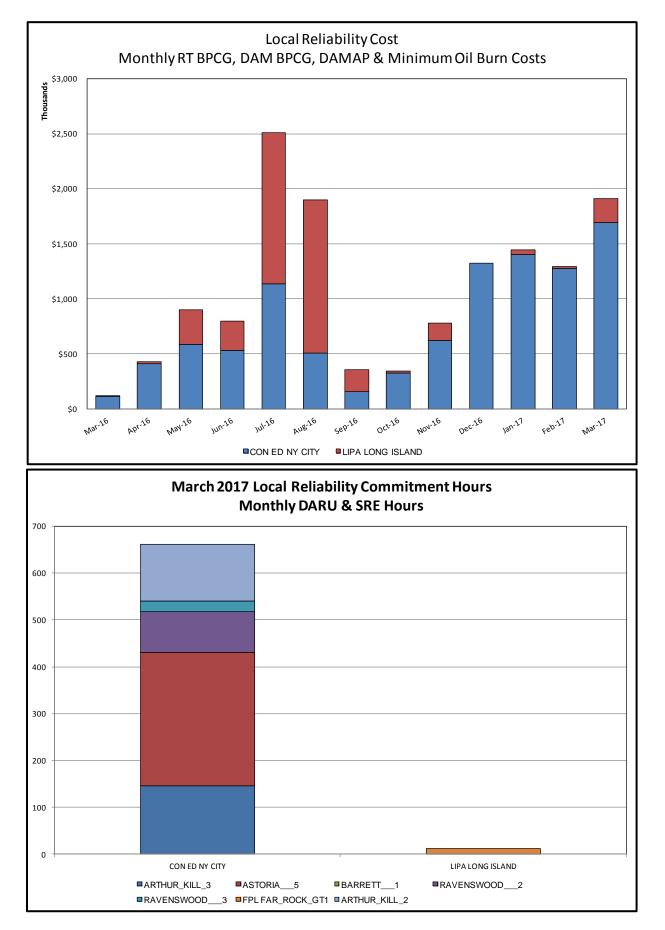


Day	Ahead Market Co	ngestion Residual Categories	
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	<u>Event Examples</u> DAM scheduled outage for equipment modeled in- service 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.	

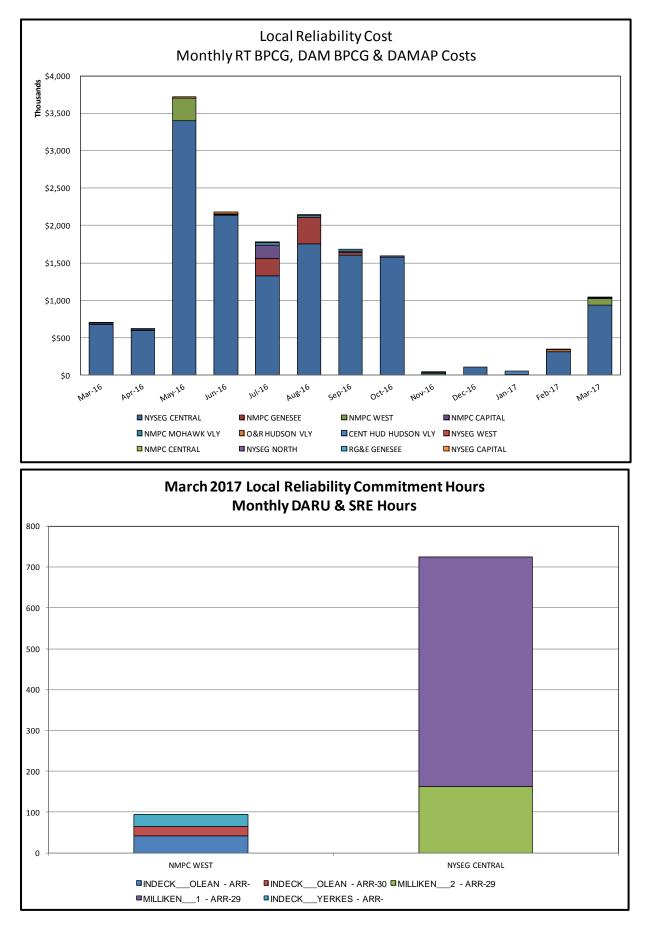




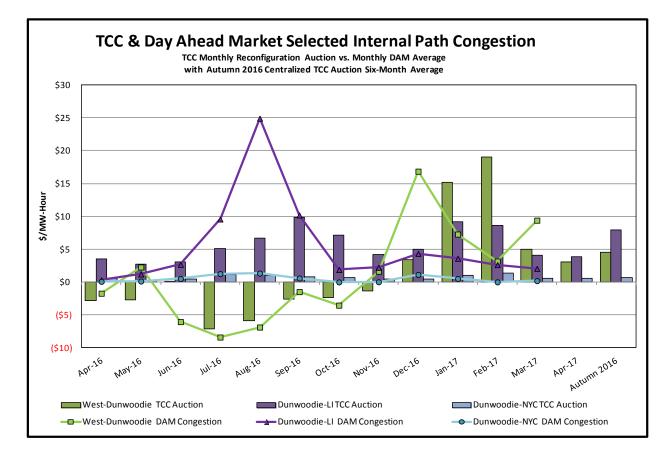


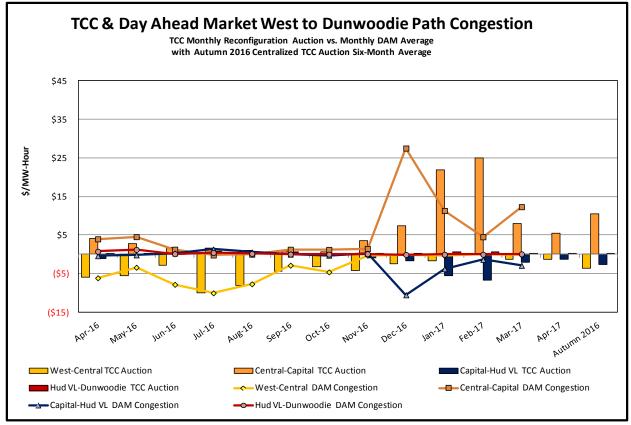




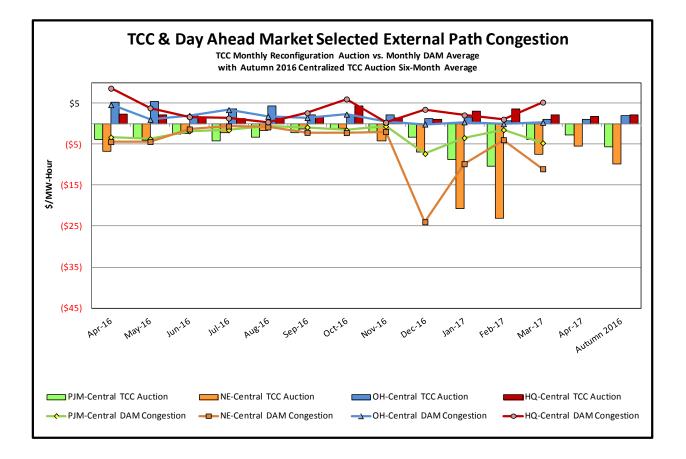




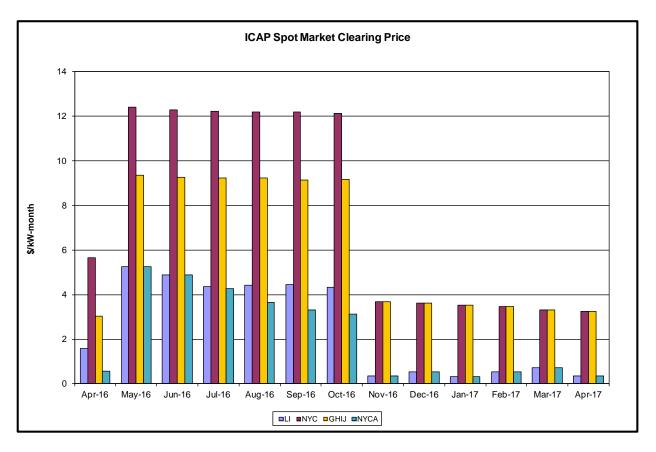


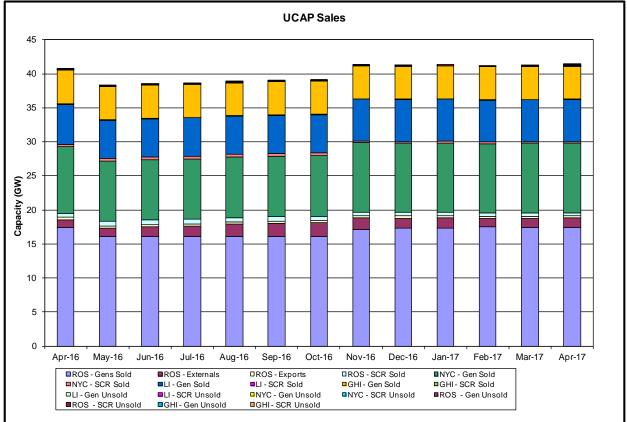






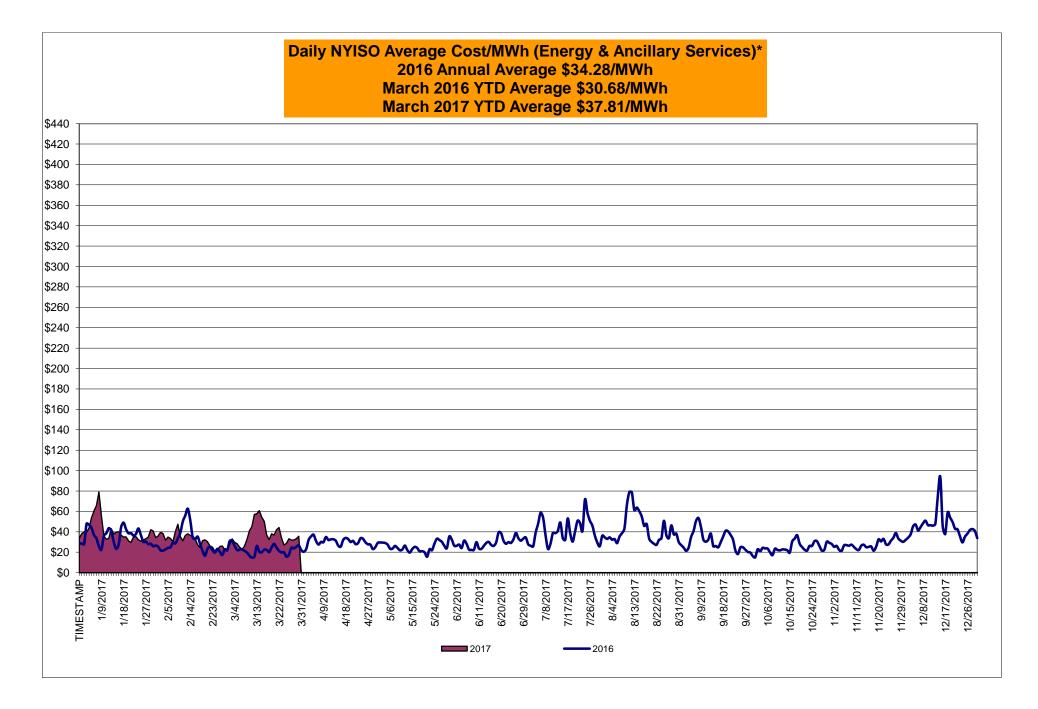






Market Performance Highlights March 2017

- LBMP for March is \$34.97/MWh; higher than \$30.95/MWh in February 2017 and \$20.66/MWh in March 2016.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to February.
- March 2017 average year-to-date monthly cost of \$37.81/MWh is a 23% increase from \$30.68/MWh in March 2016.
- Average daily sendout is 419 GWh/day in March; higher than 418 GWh/day in February 2017 and 397 GWh/day in March 2016.
- Natural gas prices were higher and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$3.49/MMBtu, up from \$2.83/MMBtu in February.
 - · Monthly average was driven up by five days of cold weather in March
 - Natural gas prices are up 169.4% year-over-year.
 - Jet Kerosene Gulf Coast was \$10.69/MMBtu, down from \$11.48/MMBtu in February.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$10.90/MMBtu, down from \$11.63/MMBtu in February.
 - Distillate prices are up 31% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.46)/MWh; higher than (\$0.54)/MWh in February.
 - Local Reliability Share is \$0.21/MWh, higher than \$0.13/MWh in February.
 - Statewide Share is (\$0.67)/MWh, unchanged from (\$0.67)/MWh in February.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than February.



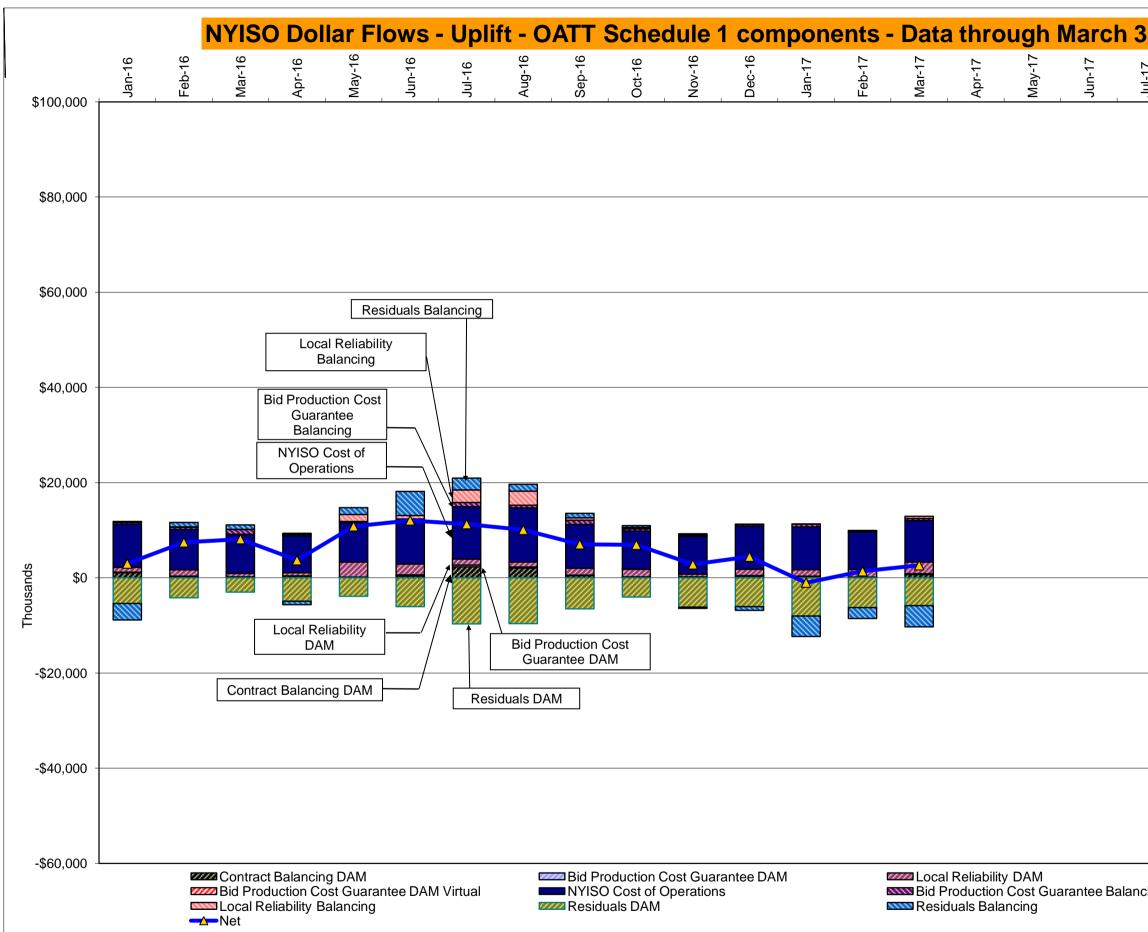
* Excludes ICAP payments.

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

2017 LBMP NTAC Reserve Regulation NYISO Cost of Operations	<u>January</u> 40.07 0.66 0.70 0.14 0.65	<u>February</u> 30.95 1.11 0.67 0.12 0.65	<u>March</u> 34.97 0.86 0.74 0.13 0.65	<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>
FERC Fee Recovery Uplift	0.09 (0.73)	0.10 (0.54)	0.10 (0.46)									
Uplift: Local Reliability Share	0.10	0.13	0.21									
Uplift: Statewide Share Voltage Support and Black Start	(0.83) 0.37	(0.67) 0.37	(0.67) 0.38									
Avg Monthly Cost	41.96	33.44	37.38									
Avg YTD Cost	41.96	38.02	37.81									
TSA \$ per NYC MWh	0.00	0.00	0.00									
2016	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
LBMP	34.29	28.71	20.66	27.96	23.31	27.35	40.01	42.99	30.89	22.33	26.31	43.90
NTAC	0.59	0.78	0.62	1.14	1.10	0.93	0.78	0.54	0.55	0.86	0.79	0.97
Reserve	0.77	0.73	0.73	0.87	0.71	0.59	0.67	0.68	0.69	0.77	0.68	0.63
Regulation	0.12	0.12	0.12	0.12	0.11	0.12	0.10	0.10	0.10	0.15	0.13	0.17
NYISO Cost of Operations	0.64	0.65	0.65	0.64	0.65	0.66	0.65	0.65	0.64	0.64	0.64	0.64
FERC Fee Recovery Uplift	0.09	0.10	0.11	0.10	0.09 0.19	0.09 0.20	0.07	0.06	0.08	0.10	0.10	0.08
Uplift: Local Reliability Share	(0.43) 0.09	(0.07) 0.11	(0.03) 0.06	(0.34) 0.07	0.19	0.20	(0.26) 0.23	(0.63) 0.22	(0.15) 0.14	(0.09) 0.15	(0.42) 0.07	(0.33) 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 monthly cost	00.42	01.07	20.20	00.04	20.02	00.20	72.70		33.10	20.12	20.01	70.72
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	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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)	0.25	(0.18)
Voltage Support and Black Start	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38
Avg Monthly Cost	60.91	115.27	53.58	30.41	35.37	30.79	36.84	35.14	36.35	32.18	27.64	23.71
Avg YTD Cost	60.91	87.74	76.64	66.82	60.96	56.02	52.77	50.20	48.59	47.17	45.66	44.10
TSA \$ per NYC MWh	0.00	0.00	0.00	0.00	0.17	0.50	0.07	0.06	0.01	0.00	0.00	0.00

* Excludes ICAP payments. Market Mitigation and Analysis Prepared: 4/7/2017 10:28 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.

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NYISO Markets Transactions

<u>17</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>
Day Ahead Market MWh	14,135,019	12,565,206	13,983,865			
DAM LSE Internal LBMP Energy Sales	57%	57%	55%			
DAM External TC LBMP Energy Sales	2%	2%	1%			
DAM Bilateral - Internal Bilaterals	32%	32%	34%			
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%			
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%			
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%			
Balancing Energy Market MWh	-256,448	-407,284	-509,053			
Balancing Energy LSE Internal LBMP Energy Sales	-157%	-132%	-148%			
Balancing Energy External TC LBMP Energy Sales	64%	39%	44%			
Balancing Energy Bilateral - Internal Bilaterals	15%	8%	12%			
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	4%	0%			
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	10%	7%	5%			
Balancing Energy Bilateral - Wheel Through Bilaterals	-32%	-26%	-13%			
Transactions Summary						
LBMP	58%	57%	55%			
Internal Bilaterals	33%	34%	36%			
Import Bilaterals	5%	5%	5%			
Export Bilaterals	2%	2%	2%			
Wheels Through	2%	2%	2%			
Market Share of Total Load						
Day Ahead Market	101.8%	103.3%	103.8%			
Balancing Energy +	-1.8%	-3.3%	-3.8%			
Total MWH	13,878,571	12,157,922	13,474,812			
Average Daily Energy Sendout/Month GWh	431	418	419			

<u>2016</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	14,760,915	13,614,754	13,413,781	12,496,141	12,959,886	14,095,904	16,950,819	17,413,898	14,563,318	13,014,354	12,770,775	14,245,185
DAM LSE Internal LBMP Energy Sales	54%	55%	55%	57%	58%	60%	64%	63%	60%	56%	56%	58%
DAM External TC LBMP Energy Sales	4%	2%	1%	5%	2%	1%	1%	3%	3%	2%	2%	3%
DAM Bilateral - Internal Bilaterals	34%	34%	35%	28%	31%	30%	28%	27%	30%	33%	32%	31%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	5%	5%	4%	4%	5%	5%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	1%	2%	2%	2%	2%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	3%	2%
Balancing Energy Market MWh	-522,919	-580,900	-741,701	-303,313	-180,848	-143,015	-86,025	224,316	-250,802	-477,109	-394,575	-127,836
Balancing Energy LSE Internal LBMP Energy Sales	-125%	-114%	-118%	-76%	-147%	-203%	-347%	42%	-139%	-111%	-102%	-269%
Balancing Energy External TC LBMP Energy Sales	12%	13%	19%	-13%	55%	77%	204%	56%	49%	21%	28%	138%
Balancing Energy Bilateral - Internal Bilaterals	19%	9%	4%	8%	27%	47%	62%	28%	18%	6%	9%	65%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	6%	5%	3%	5%	7%	10%	15%	5%	5%	4%	6%	27%
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%	-12%	-8%	-24%	-42%	-32%	-34%	-31%	-32%	-21%	-40%	-66%
Transactions Summary												
LBMP	56%	56%	54%	62%	59%	61%	65%	66%	62%	57%	57%	60%
Internal Bilaterals	36%	36%	37%	29%	32%	31%	28%	27%	30%	35%	34%	32%
Import Bilaterals	5%	5%	6%	6%	5%	5%	4%	4%	5%	5%	6%	5%
Export Bilaterals	2%	2%	2%	2%	2%	2%	1%	1%	1%	2%	2%	2%
Wheels Through	1%	1%	1%	1%	2%	2%	1%	1%	2%	1%	2%	2%
Market Share of Total Load												
Day Ahead Market	103.7%	104.5%	105.9%	102.5%	101.4%	101.0%	100.5%	98.7%	101.8%	103.8%	103.2%	100.9%
Balancing Energy +	-3.7%	-4.5%	-5.9%	-2.5%	-1.4%	-1.0%	-0.5%	1.3%	-1.8%	-3.8%	-3.2%	-0.9%
Total MWH	14,237,996	13,033,853	12,672,080	12,192,828	12,779,038	13,952,889	16,864,794	17,638,213	14,312,516	12,537,245	12,376,200	14,117,349
Average Daily Energy Sendout/Month GWh	439	436	397	385	397	456	532	548	458	391	398	433

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

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

<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

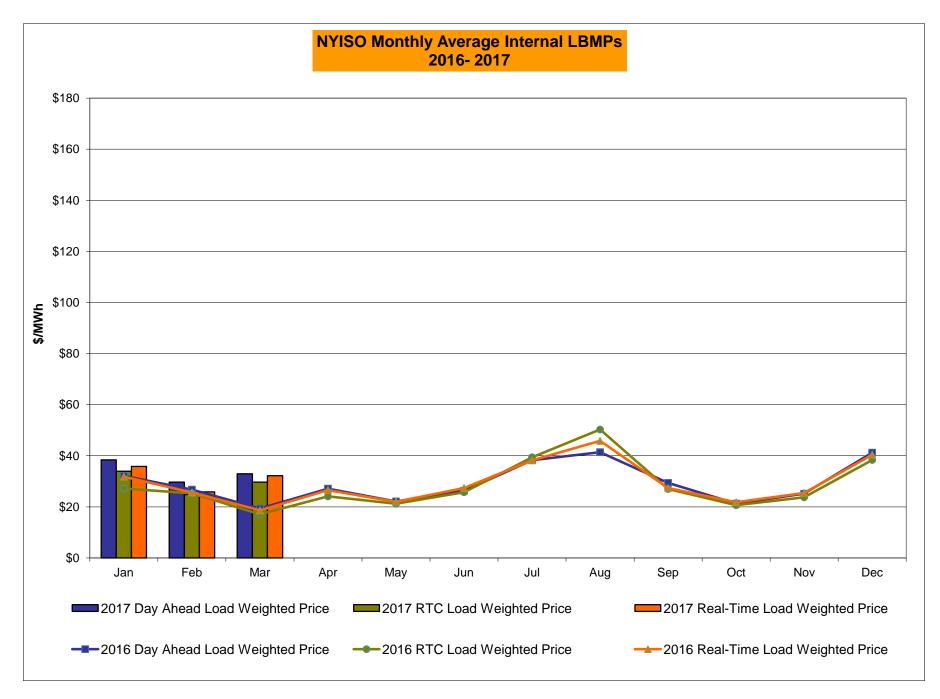
NYISO Markets 2017 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	July	August	<u>September</u>	October Nov	vember [<u>December</u>
DAY AHEAD LBMP												
Price *	\$37.22	\$28.84	\$32.04									
Standard Deviation	\$13.20	\$7.97	\$11.95									
Load Weighted Price **	\$38.42	\$29.66	\$32.96									
RTC LBMP												
Price *	\$32.87	\$24.09	\$28.86									
Standard Deviation	\$14.57	\$9.52	\$13.70									
Load Weighted Price **	\$33.96	\$24.81	\$29.67									
REAL TIME LBMP												
Price *	\$34.61	\$25.14	\$31.21									
Standard Deviation	\$18.20	\$14.21	\$25.02									
Load Weighted Price **	\$35.80	\$25.84	\$32.21									
Average Daily Energy Sendout/Month GWh	431	418	419									

NYISO Markets 2016 Energy Statistics

	January	February	March	<u>April</u>	May	June	July	August	September	<u>October</u>	November [December
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.



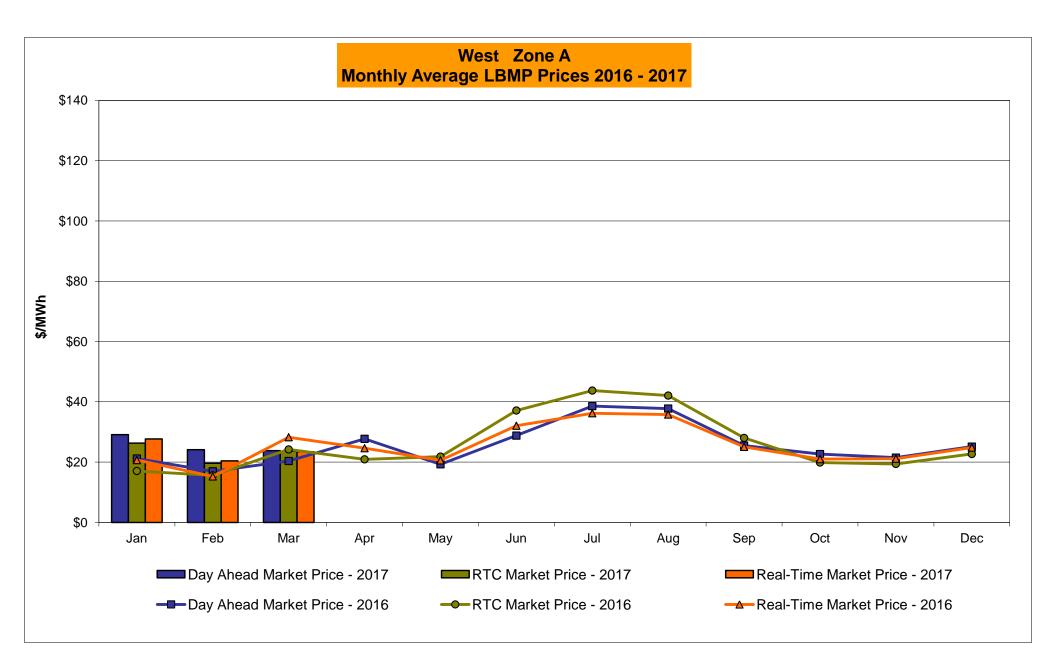
Market Mitigation and Analysis Prepared: 4/7/2017 10:25 AM

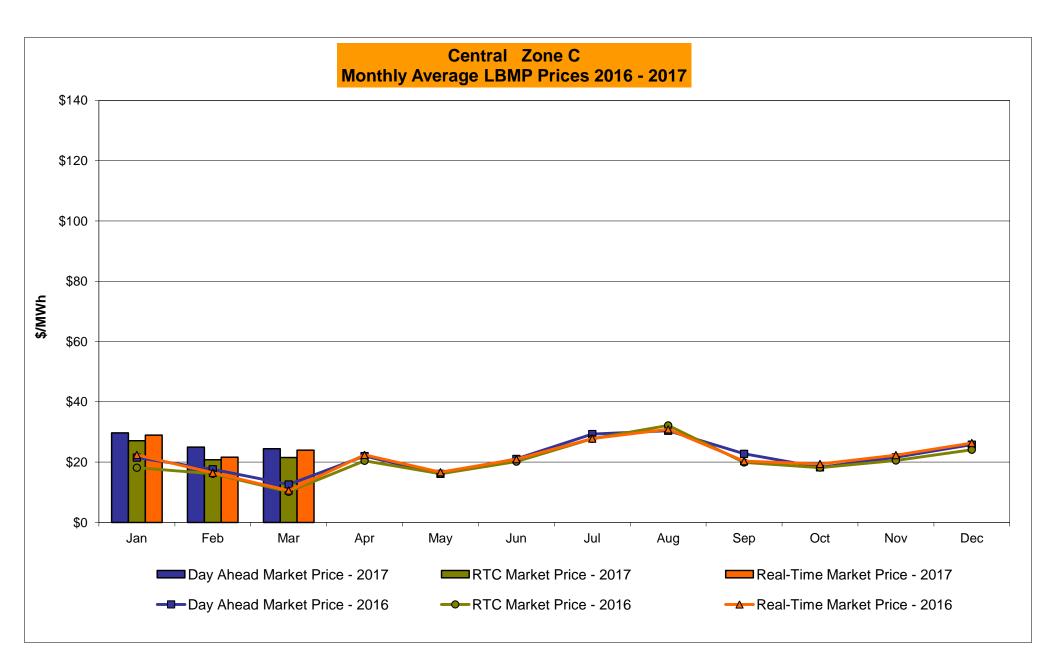
March 2017 Zonal LBMP Statistics for NYISO (\$/MWh)

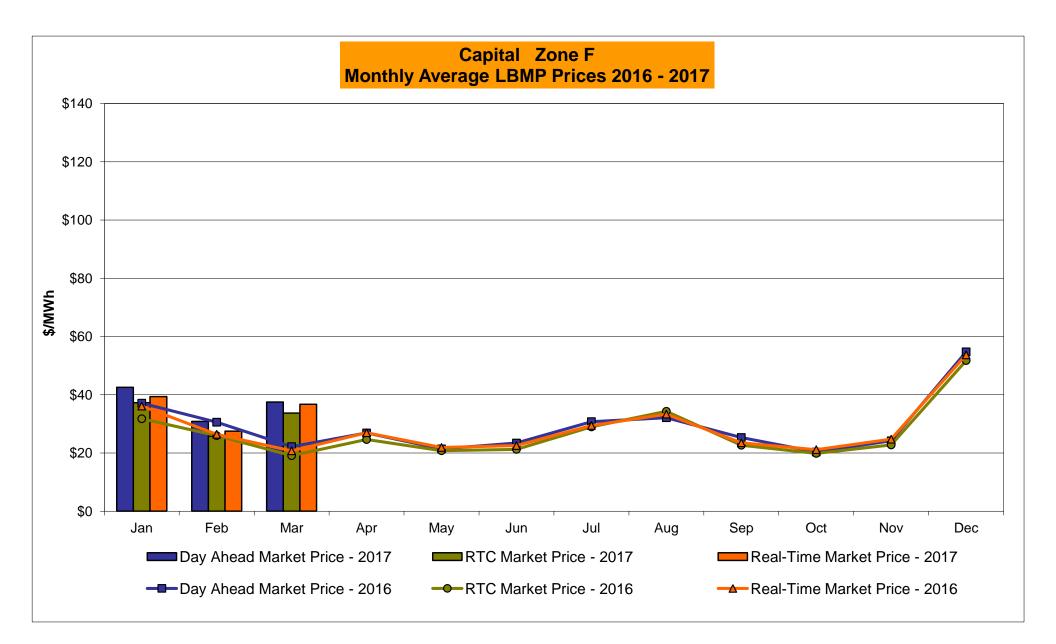
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	<u>Zone H</u>	Zone I	Zone J	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	23.80	23.32	17.83	24.47	24.65	37.52	35.43	35.73	35.65	36.04	38.34
Standard Deviation	8.68	8.72	8.42	8.95	9.10	15.92	14.10	14.23	14.14	14.23	15.30
RTC LBMP											
Unweighted Price *	23.61	20.55	16.10	21.55	21.90	33.72	31.60	31.88	31.76	32.39	33.91
Standard Deviation	35.04	13.75	18.40	13.94	14.04	16.89	14.89	15.07	14.98	14.86	16.35
REAL TIME LBMP											
Unweighted Price *	23.46	22.96	16.68	23.95	24.37	36.71	34.52	34.80	34.68	35.48	36.59
Standard Deviation	24.71	24.55	36.44	25.08	25.49	27.15	26.38	26.58	26.45	26.67	27.10

	ONTARIO	HYDRO QUEBEC	HYDRO QUEBEC		NEW	CROSS SOUND	NORTHPORT-				
	IESO		(Import/Export)	PJM	ENGLAND	CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						Controllable	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>
	<u>Zone O</u>	<u>Zone M</u>	<u>Zone M</u>	<u>Zone P</u>	<u>Zone N</u>	<u>Line</u>	Line	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	22.92	18.06	18.06	29.35	36.50	37.92	37.45	37.58	35.83	35.85	17.77
Standard Deviation	8.15	8.81	8.81	10.82	14.99	15.15	14.97	14.98	14.05	14.11	8.03
RTC LBMP											
Unweighted Price *	20.26	15.55	15.55	26.91	32.00	34.06	33.94	33.80	32.35	32.43	16.15
Standard Deviation	17.25	21.78	21.78	16.18	17.60	18.93	18.79	18.76	17.77	17.67	20.21
REAL TIME LBMP											
Unweighted Price *	21.71	16.24	16.24	29.34	35.50	36.40	36.45	36.50	35.55	35.47	14.63
Standard Deviation	41.52	42.04	42.04	27.74	27.85	27.09	26.97	29.78	29.55	29.61	34.23

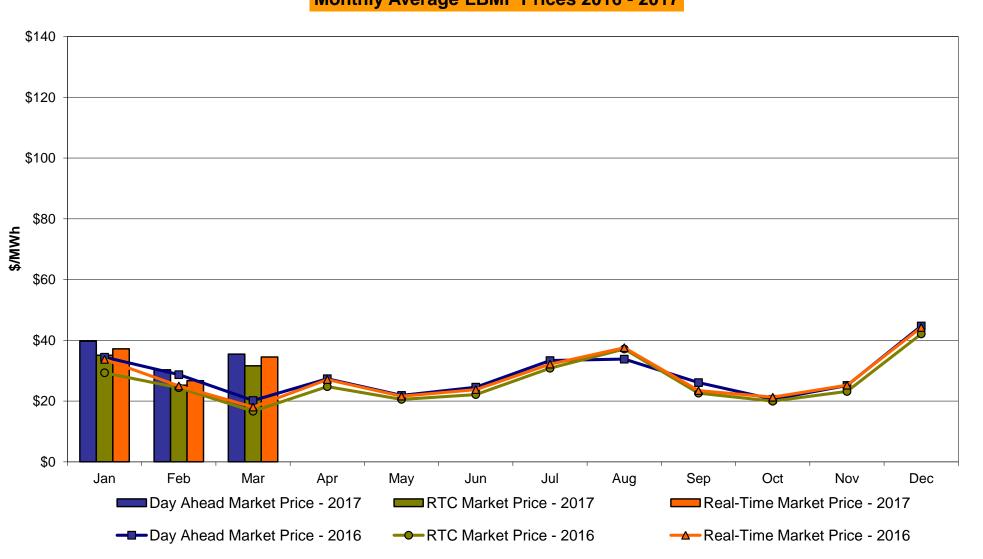
* Straight LBMP averages



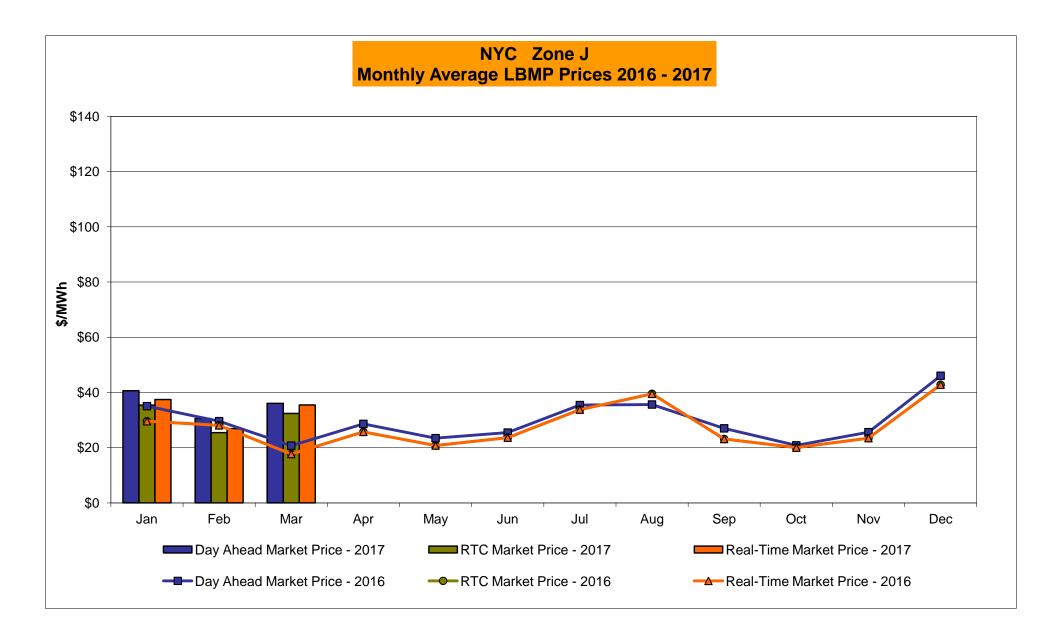




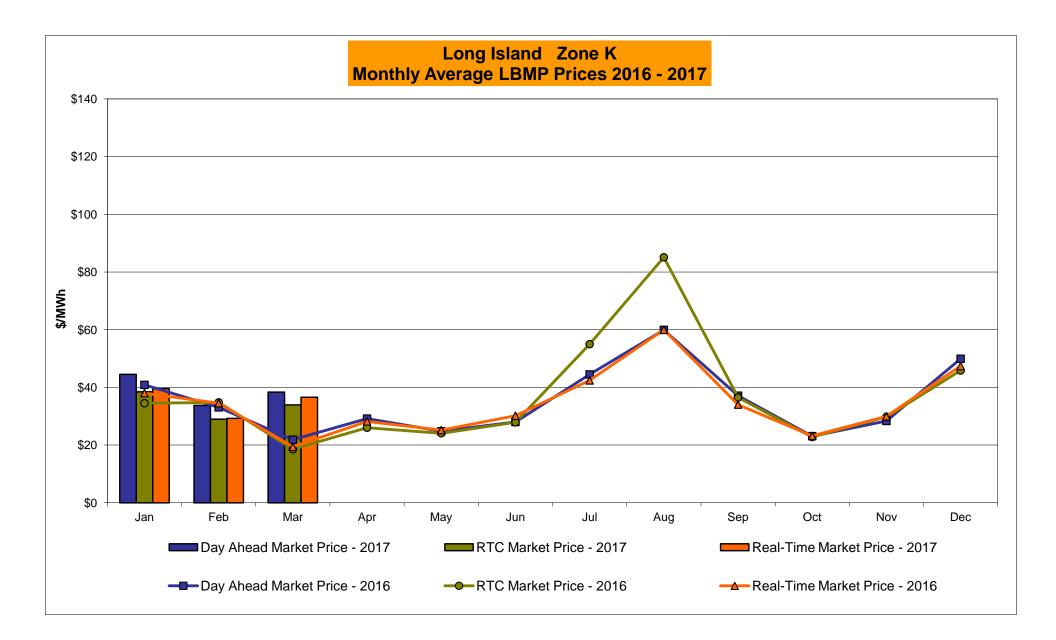
Hudson Valley Zone G Monthly Average LBMP Prices 2016 - 2017

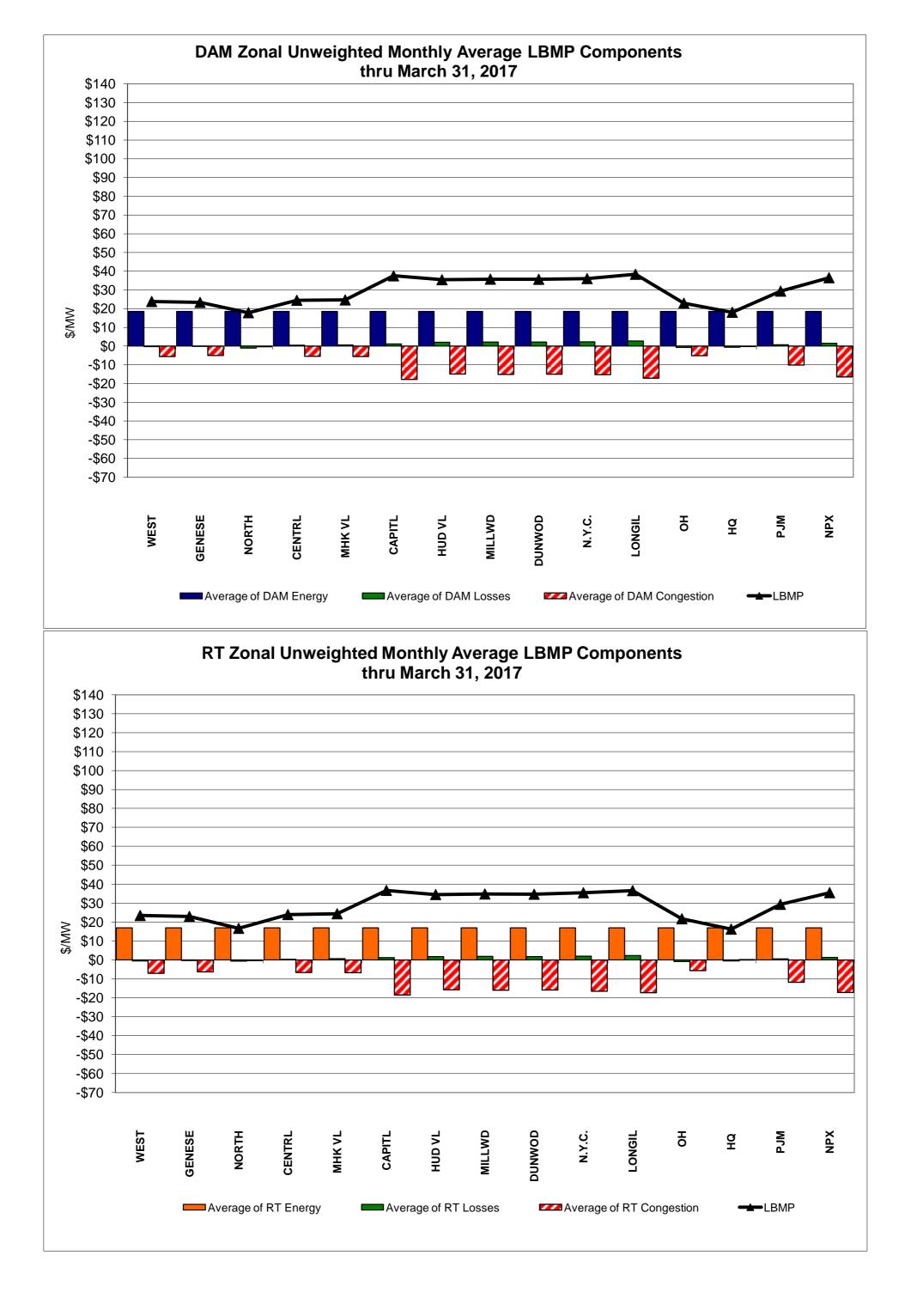


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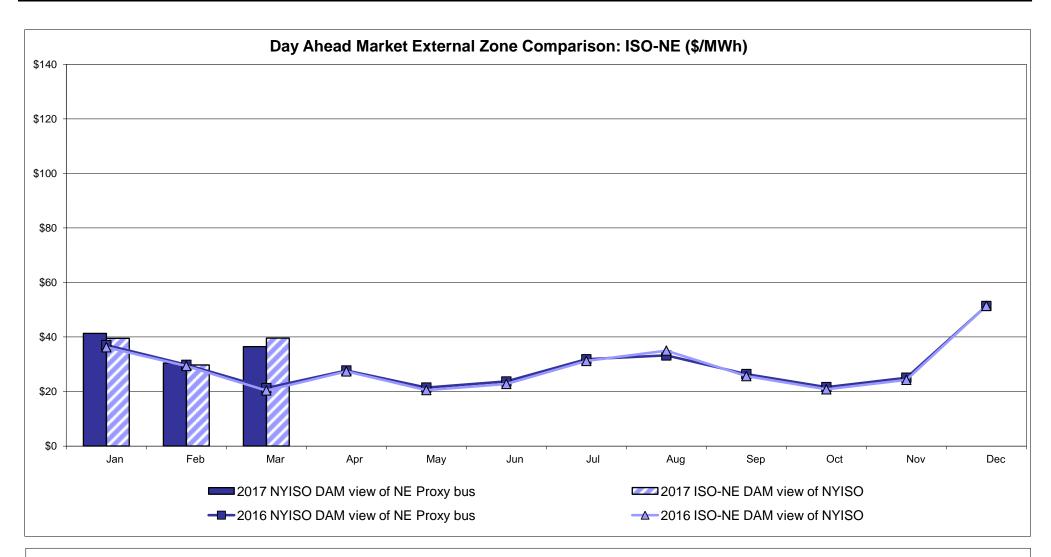
Market Mitigation and Analysis Prepared:4/7/2017 10:26 AM

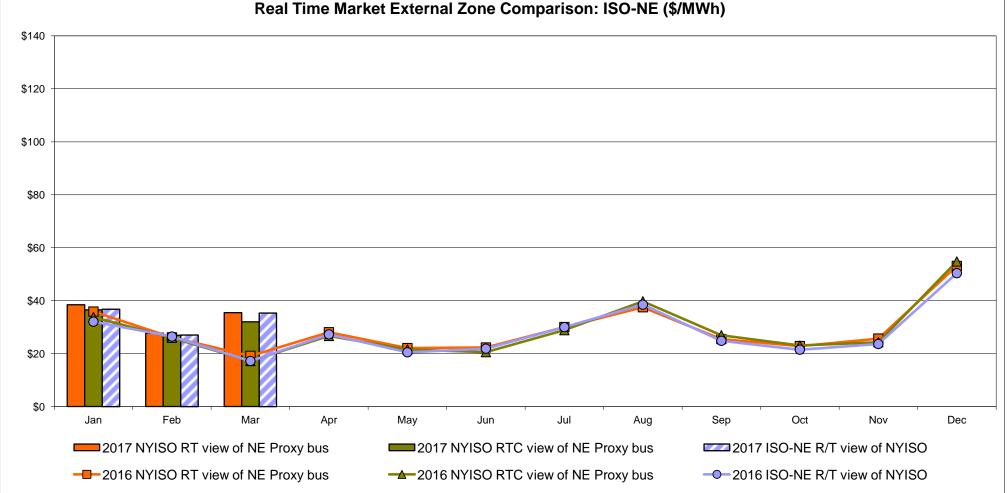




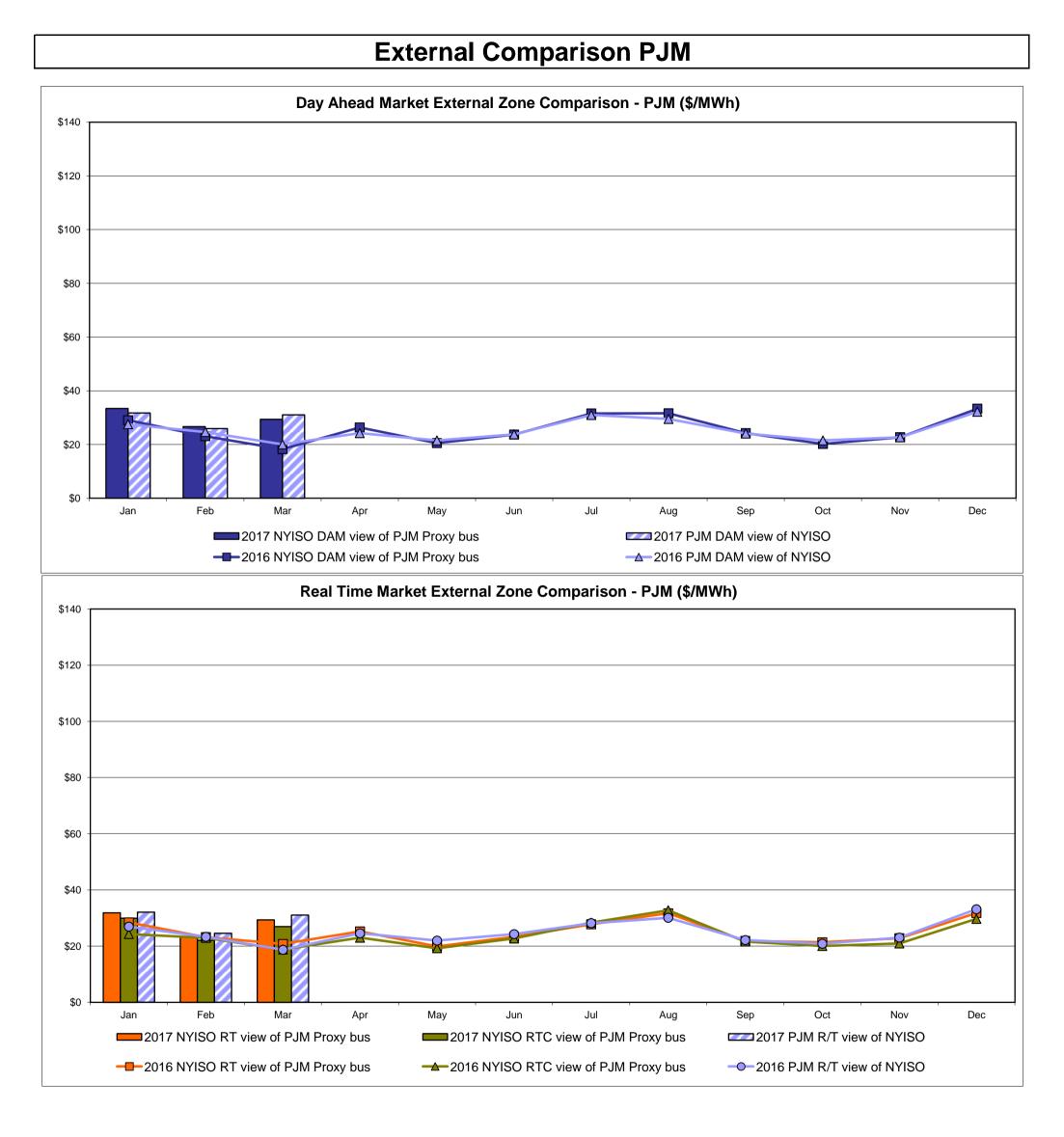
Market Mitigation and Analysis Prepared:4/7/2017 10:26 AM

External Comparison ISO-New England



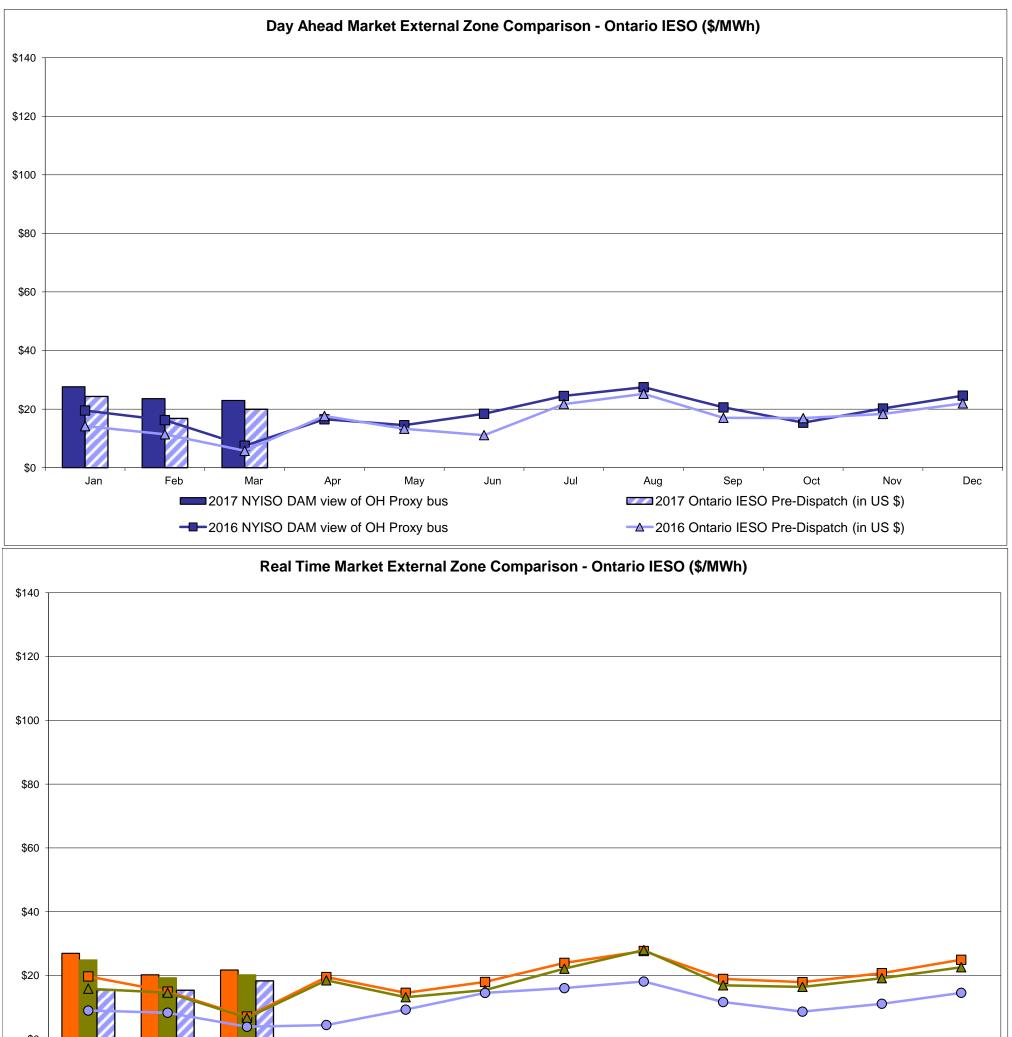


Market Mitigation and Analysis Prepared: 4/7/2017 10:26 AM



Market Mitigation and Analysis Prepared: 4/7/2017 10:27 AM

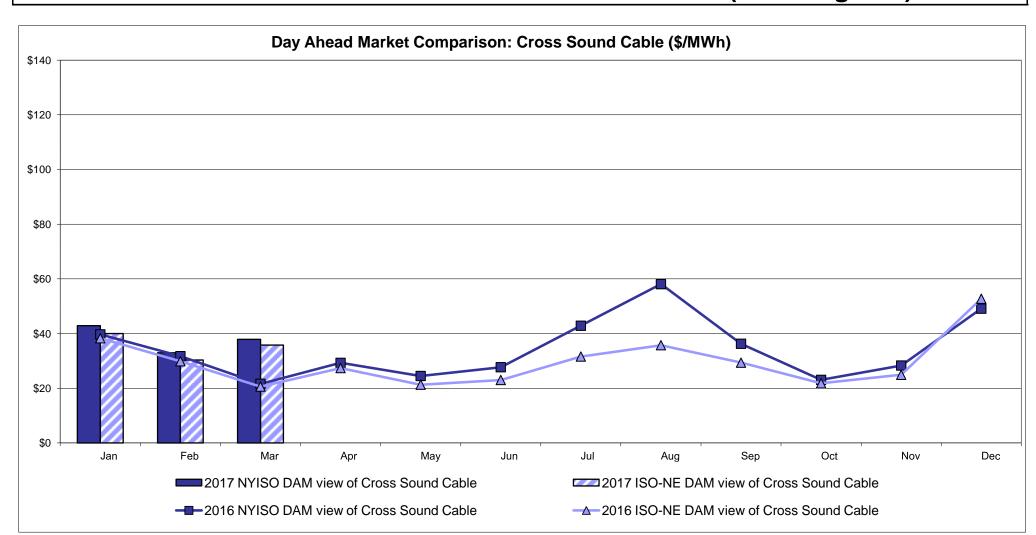
External Comparison Ontario IESO



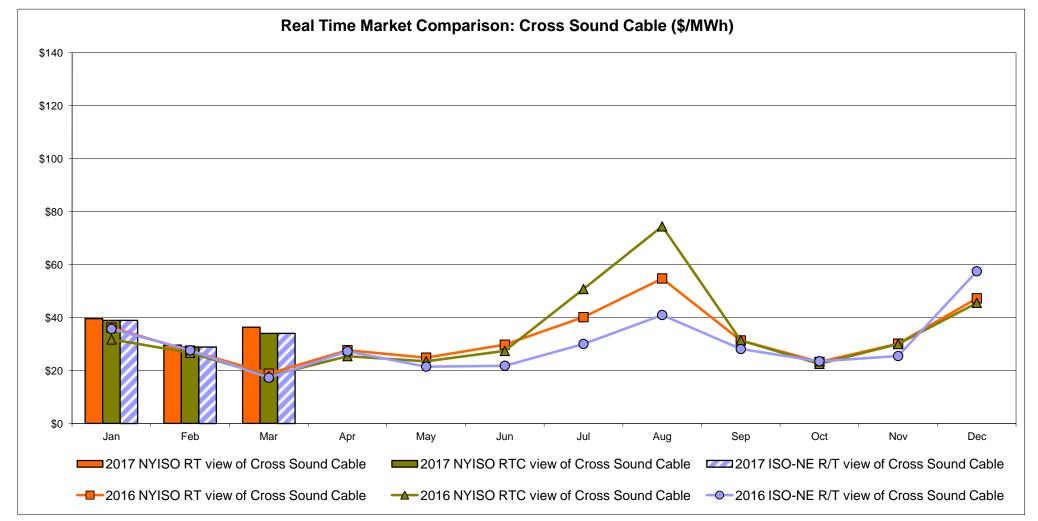
\$0 +	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	201	7 NYISO RT v	riew of OH Pr	oxy bus	2017	NYISO RTC	view of OH P	roxy bus	2017 (Ontario IESC	HOEP (in US	\$ \$)
	-201	6 NYISO RT v	riew of OH Pr	oxy bus	 2016	NYISO RTC	view of OH P	roxy bus	-0-2016 (Ontario IESC	HOEP (in US	S \$)

Notes: Exchange factor used for March 2017 was 0.746993352 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

> Market Mitigation and Analysis Prepared: 4/7/2017 10:27 AM



External Controllable Line: Cross Sound Cable (New England)



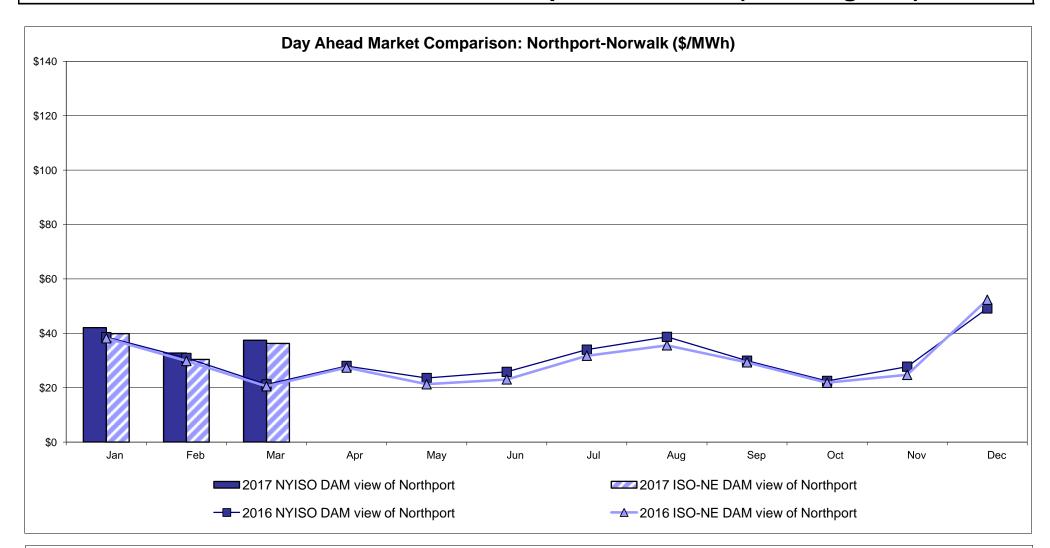
Note:

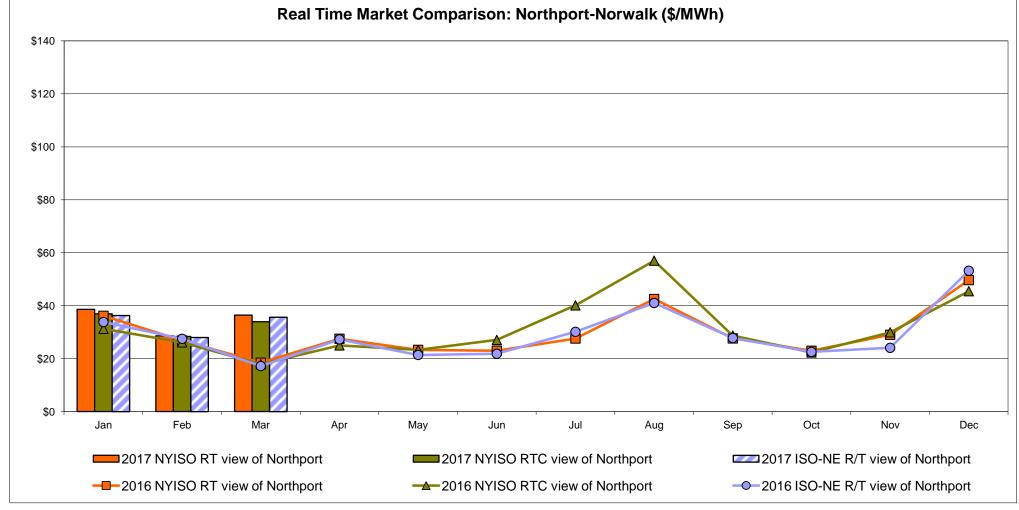
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

External Controllable Line: Northport - Norwalk (New England)





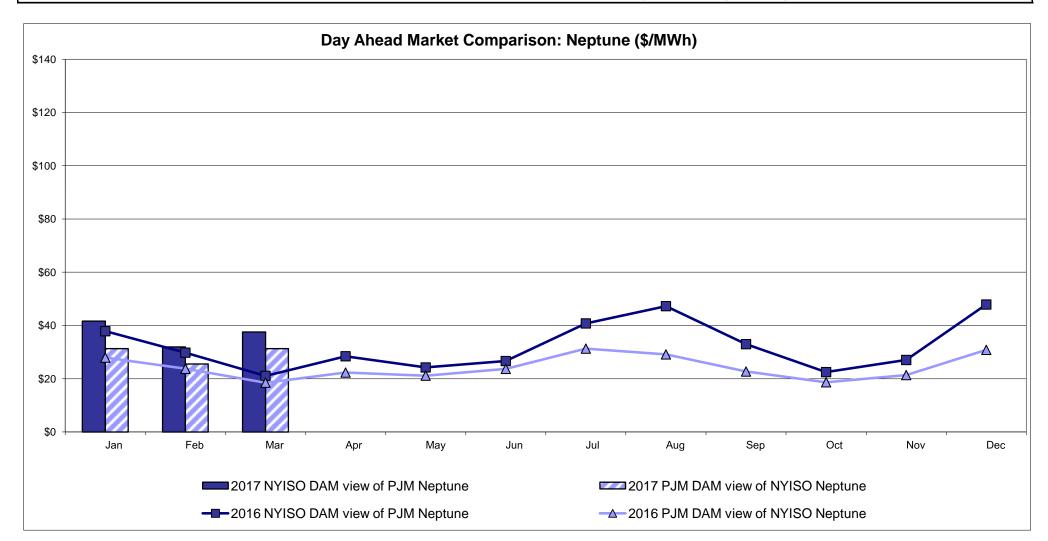
Note:

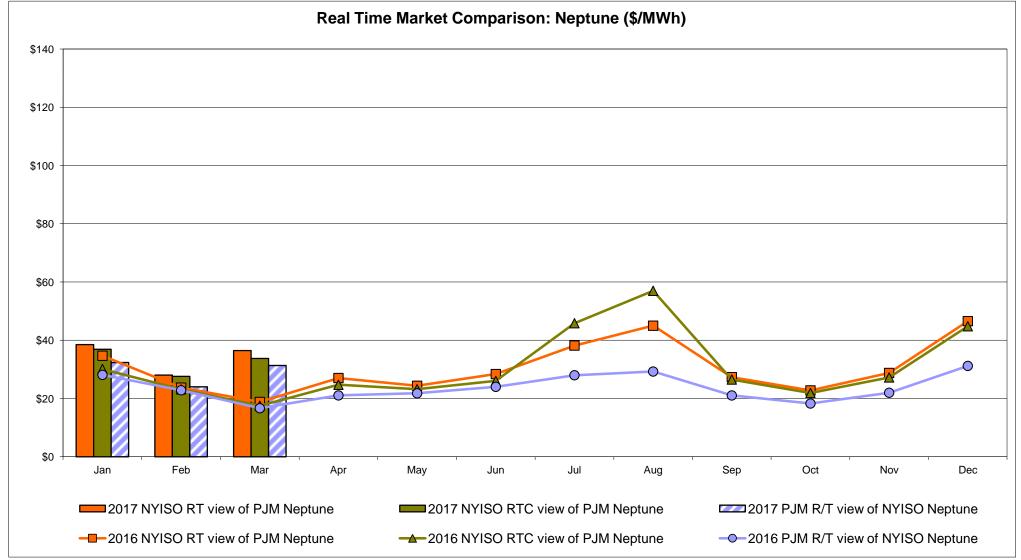
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

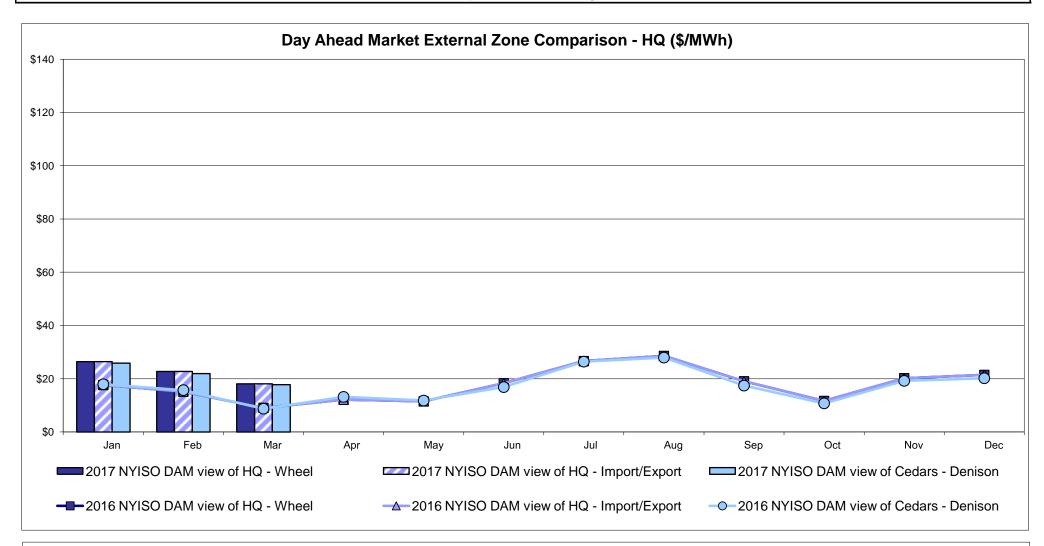
The DAM and R/T prices at the 1385 interface are used for NYISO.

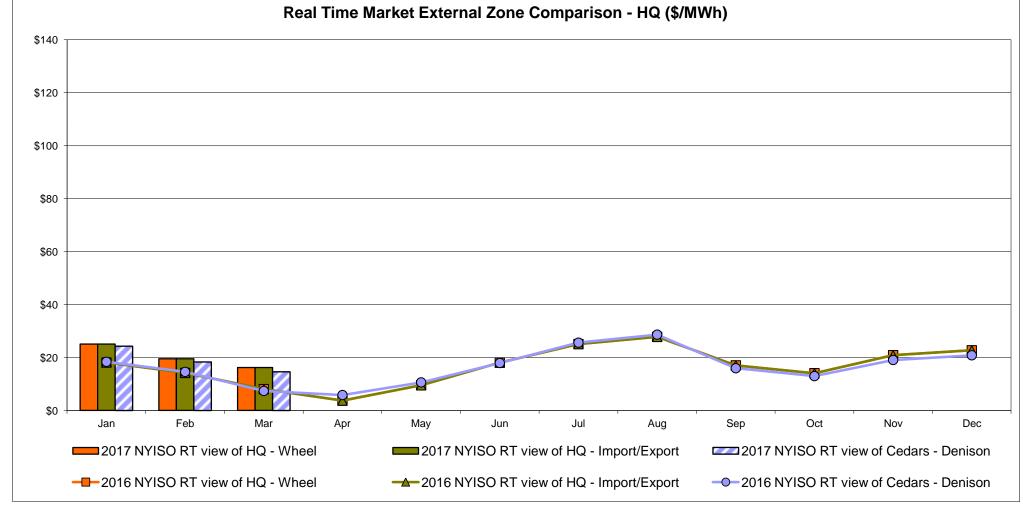
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

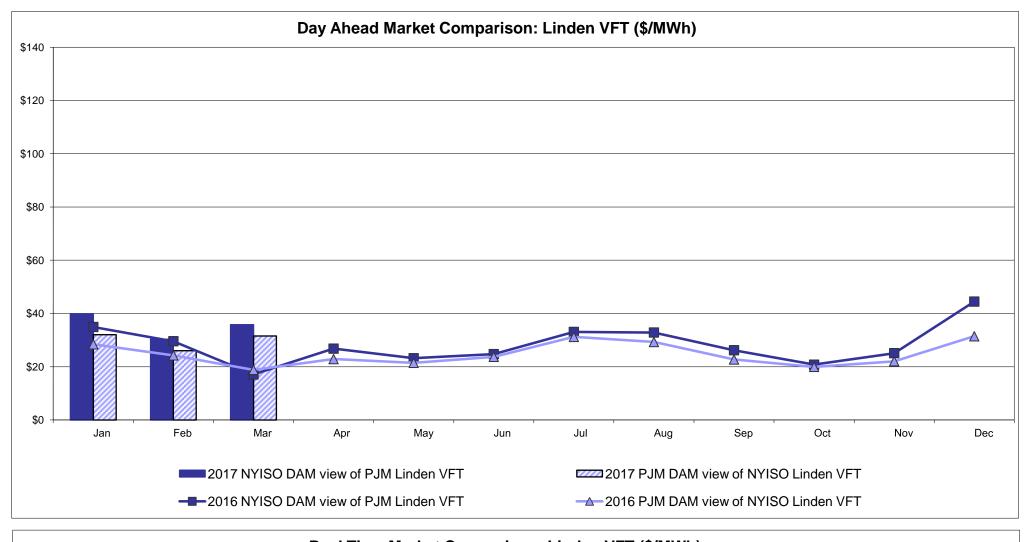


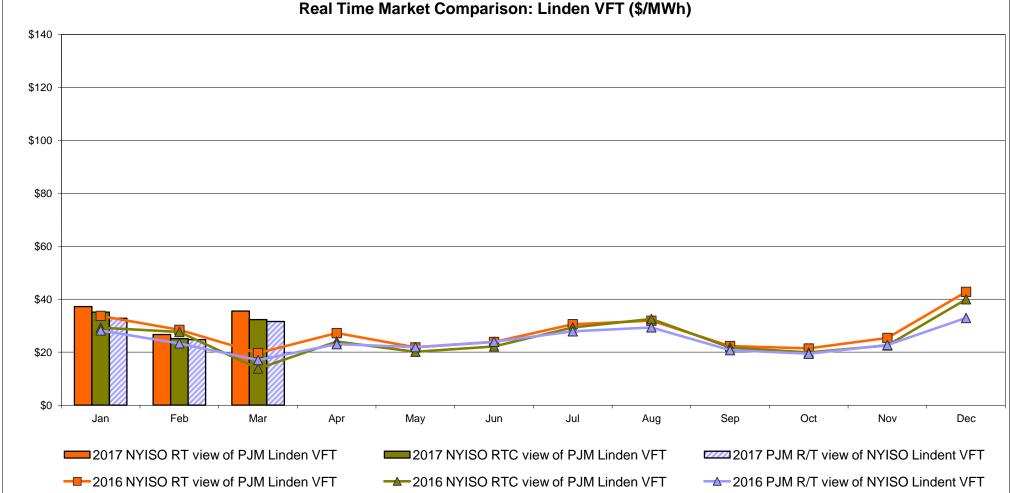


Note:

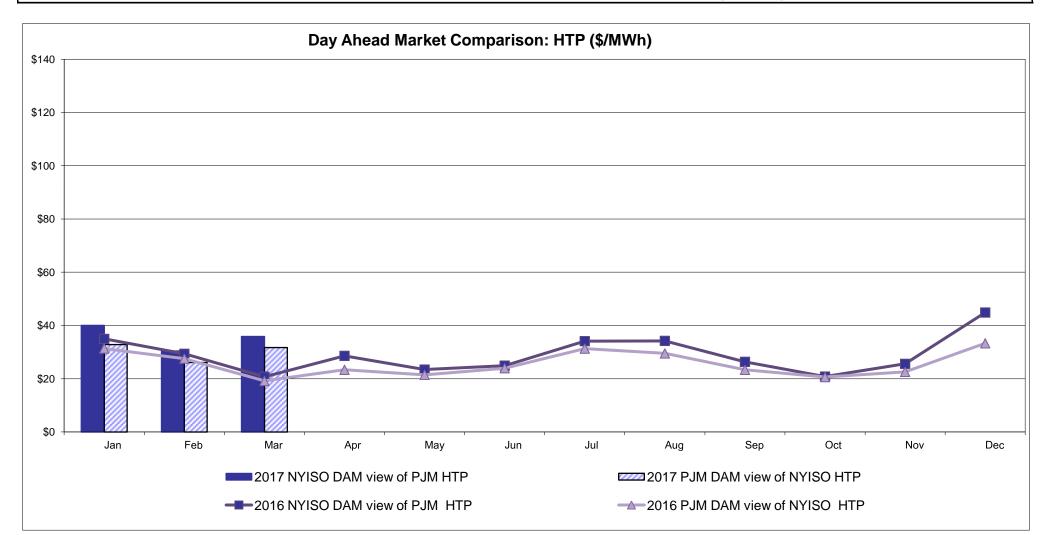
Hydro-Quebec Prices are unavailable.

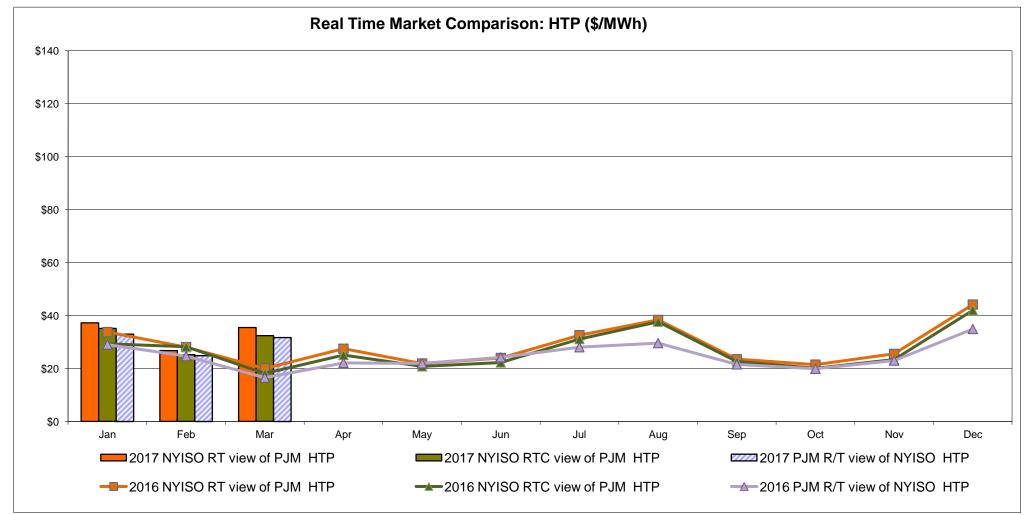
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)

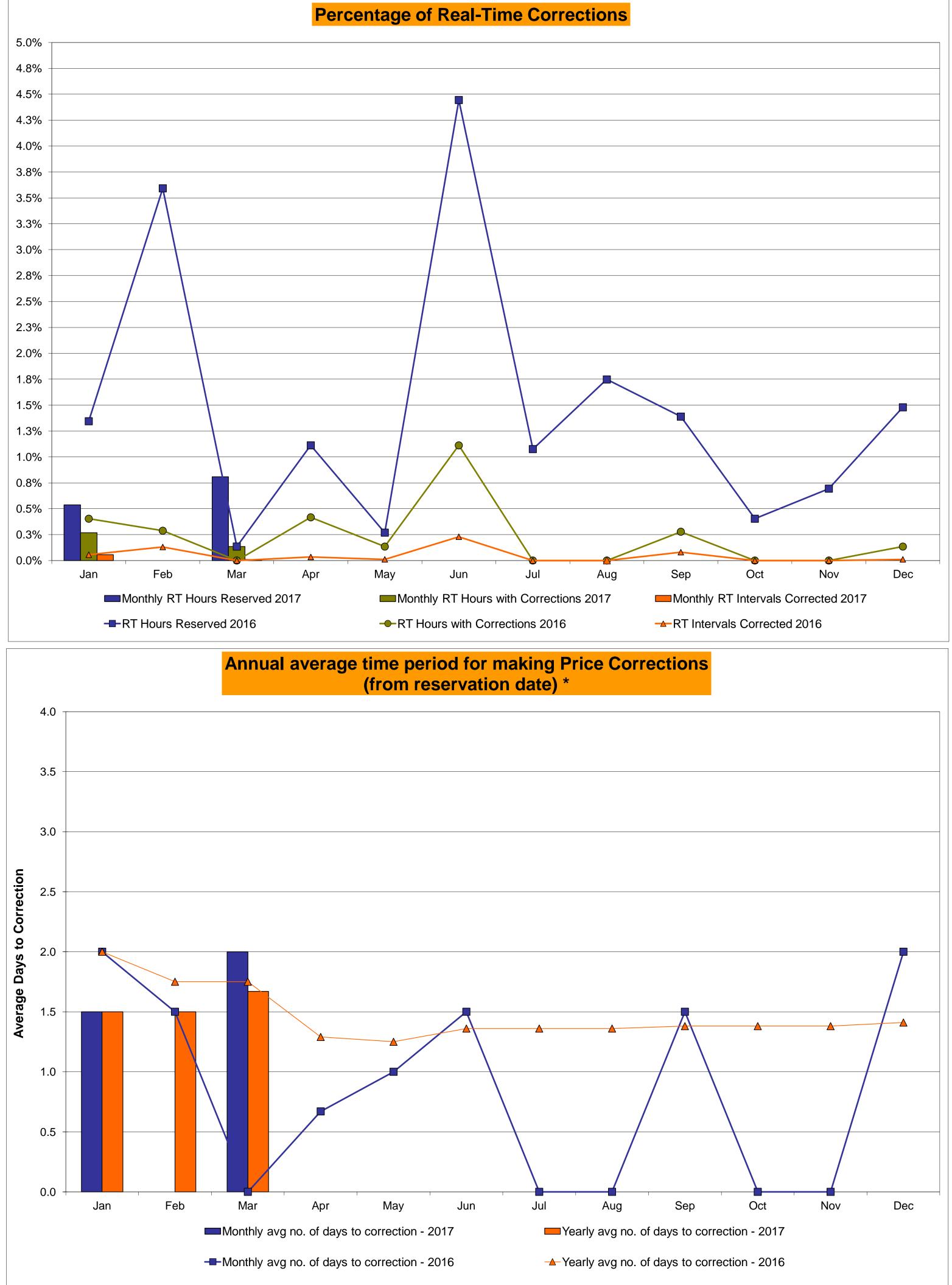




NYISO Real Time Price Correction Statistics

<u>2017</u>		<u>January</u>	February	March	<u>April</u>	May	June	July	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections	in the meanth	0	0	4									
Number of hours with corrections	in the month	2	0	1									
Number of hours	in the month	744	672	743									
% of hours with corrections	in the month	0.27%	0.00%	0.13%									
% of hours with corrections	year-to-date	0.27%	0.14%	0.14%									
Interval Corrections													
Number of intervals corrected	in the month	5	0	1									
Number of intervals	in the month	8,983	8,101	9,026									
% of intervals corrected	in the month	0.06%	0.00%	0.01%									
% of intervals corrected	year-to-date	0.06%	0.03%	0.02%									
Hours Reserved													
Number of hours reserved	in the month	4	0	6									
Number of hours	in the month	744	672	743									
% of hours reserved	in the month	0.54%	0.00%	0.81%									
% of hours reserved	year-to-date	0.54%	0.28%	0.46%									
Days to Correction *	2												
Avg. number of days to correction	in the month	1.50	0.00	2.00									
Avg. number of days to correction	year-to-date	1.50	1.50	1.67									
Days Without Corrections													
Days without corrections	in the month	29	28	30									
Days without corrections	year-to-date	29	57	87									
2016		lanuary	Fobruary	March	April	Mov	luno	lukz	August	Sontombor	Octobor	Novombor	December
2016 Hour Corrections		<u>January</u>	February	March	<u>April</u>	May	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections	in the month					<u>May</u>				<u>September</u>			December
Hour Corrections Number of hours with corrections	in the month	3	2	0	3	1	8	0	0	2	0	0	1
Hour Corrections Number of hours with corrections Number of hours	in the month	3 744	2 696	0 743	3 720	1 744	8 720	0 744	0 744	2 720	0 744	0 721	1 744
Hour Corrections Number of hours with corrections		3 744 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	in the month	3 744	2 696	0 743	3 720	1 744	8 720	0 744	0 744	2 720	0 744	0 721	1 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month 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%	0 721 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% 0.23% 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 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% 0.23% 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% <u>0.35%</u> 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% <u>0.39%</u> 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% 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>	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 Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month in the month year-to-date	3 744 0.40% 0.40% 5 9,000 0.06% 0.06%	2 696 0.29% 0.35% 11 8,440 0.13% 0.09%	0 743 0.00% <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% 0.29% 0 9,048 0.00% 0.06%	2 720 0.28% 0.29% 7 8,713 0.08% 0.06%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05%	1 744 0.13% <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	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% 0.25% 1 8,987 0.01% 0.05% 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
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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	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	3 744 0.40% 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 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 in the month year-to-date	3 744 0.40% 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%	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%	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53%	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46%	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46% 2.00
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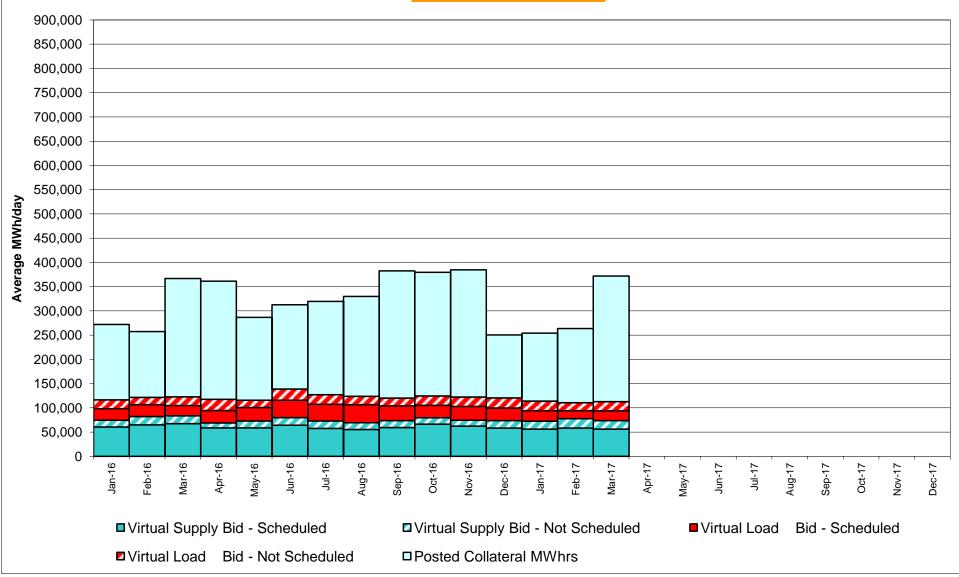
* Calendar days from reservation date.



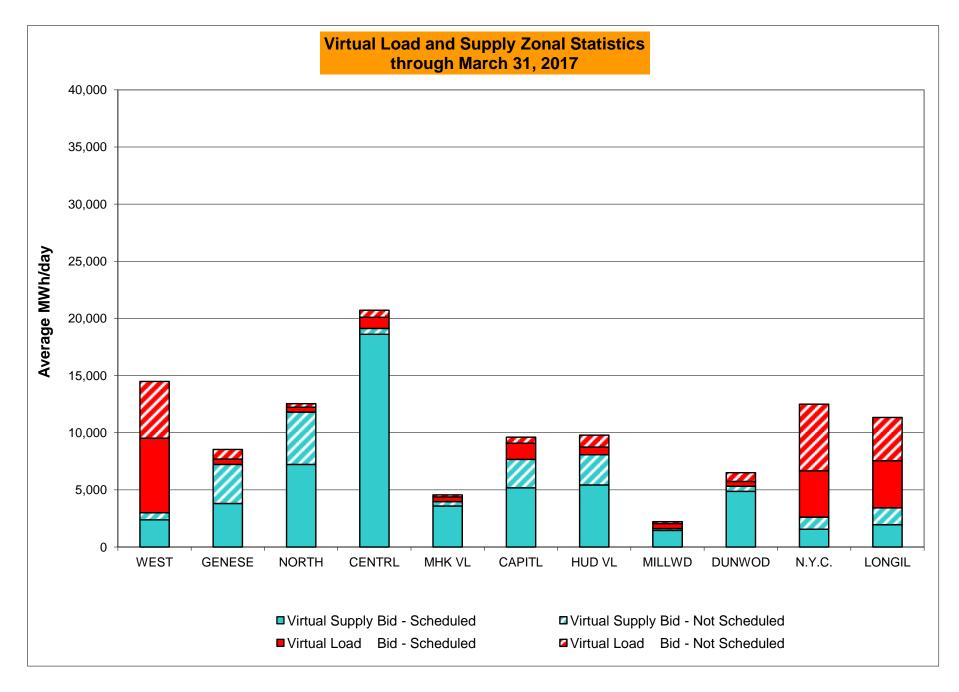
* Calendar days from reservation date.

Market Mitigation and Analysis Prepared: 4/7/2017 10:27 AM

NYISO Virtual Trading Average MWh per day



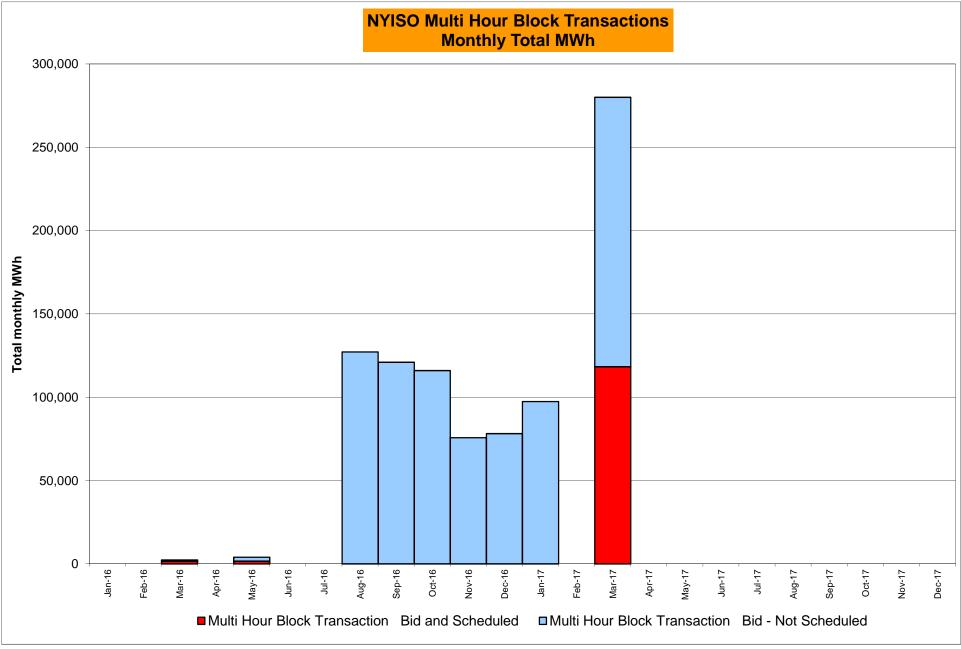
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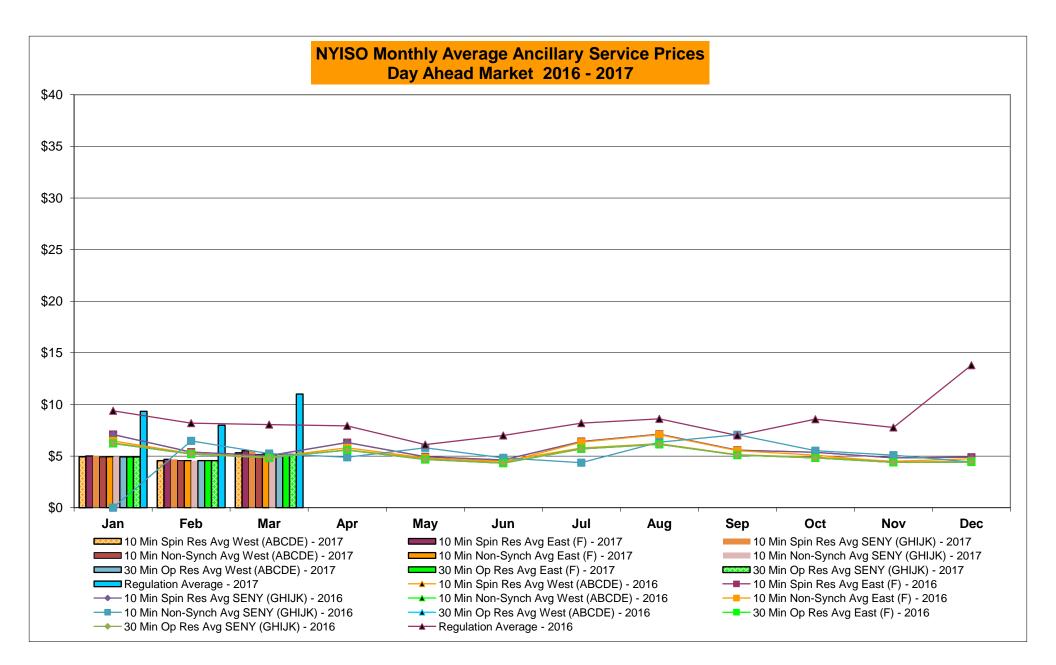
Market Mitigation and Analysis Prepared: 4/7/2017 10:26 AM

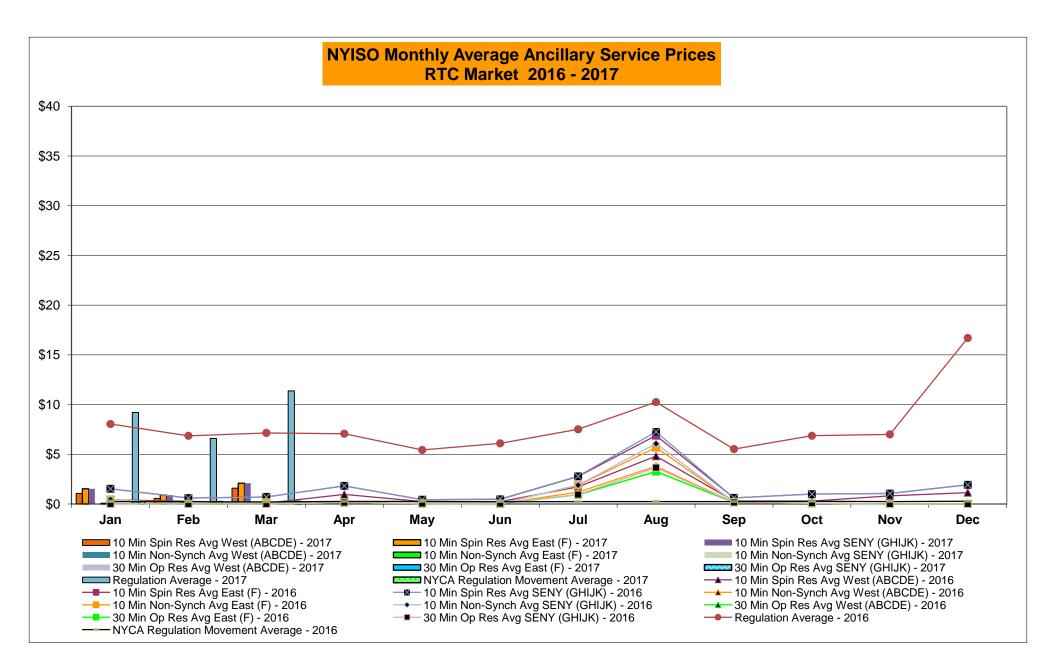
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2017

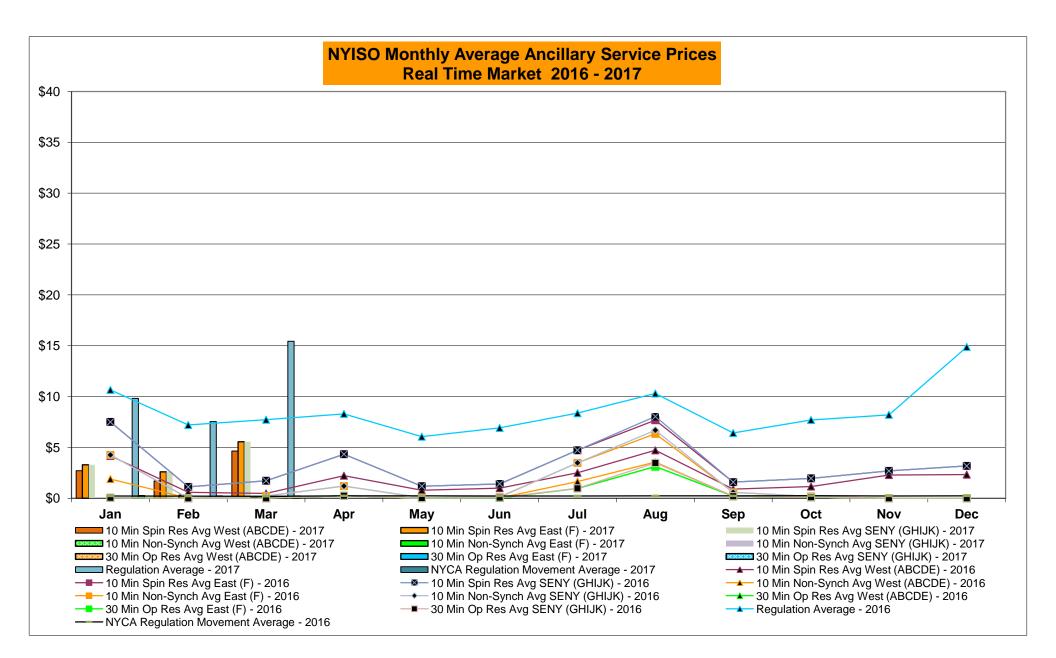
		Virtual L	oad Bid	Virtual Su				Virtual L	oad Bid	Virtual Su			1	Virtual L		Virtual S	upply Bid
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
WEST	Jan-17	6,094	5,795	2,019	337	MHK VL	Jan-17			2,022		DUNWOD	Jan-17	304	832	5,708	
	Feb-17	3,771	4,772	3,346	567		Feb-17			2,459			Feb-17	193	585	5,966	
	Mar-17	6,522		2,386	616		Mar-17			3,594			Mar-17	436	763	4,871	
	Apr-17			,			Apr-17						Apr-17				
	May-17						May-17						May-17				
	Jun-17						Jun-17						Jun-17				
	Jul-17						Jul-17						Jul-17				
	Aug-17						Aug-17						Aug-17				
	Sep-17						Sep-17						Sep-17				
	Oct-17						Oct-17						Oct-17				
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				
GENESE	Jan-17	654	1,282	3,652	2,482	CAPITL	Jan-17	1,291	666	3,990	3,861	N.Y.C.	Jan-17	5,761	5,474	1,543	1,008
	Feb-17	276		3,782	3,206		Feb-17			3,432			Feb-17	4,622	5,309	1,712	
	Mar-17	480		3,806	3,419		Mar-17			5,186			Mar-17	4,052	5,826	1,561	1,058
	Apr-17						Apr-17						Apr-17			<u>-</u>	
	May-17						May-17						May-17				
	Jun-17						Jun-17						Jun-17				
	Jul-17						Jul-17						Jul-17				
	Aug-17						Aug-17						Aug-17				
	Sep-17						Sep-17						Sep-17				
	Oct-17						Oct-17						Oct-17				
	Nov-17						Nov-17						Nov-17				
	Dec-17						Dec-17						Dec-17				
NORTH	Jan-17	655		6,415	3,473	HUD VL	Jan-17		817	5,317		LONGIL	Jan-17	3,559	3,788	1,354	
	Feb-17	465		7,504	4,006		Feb-17			6,266			Feb-17	3,341	3,127	1,653	
	Mar-17	426	311	7,227	4,576		Mar-17		1,048	5,427	2,652		Mar-17	4,133	3,779	1,958	1,463
	Apr-17						Apr-17						Apr-17				
	May-17						May-17						May-17				
	Jun-17						Jun-17						Jun-17				
	Jul-17						Jul-17						Jul-17				
	Aug-17						Aug-17						Aug-17				
	Sep-17						Sep-17						Sep-17				
	Oct-17						Oct-17						Oct-17				
	Nov-17 Dec-17						Nov-17 Dec-17						Nov-17 Dec-17				
	Dec-17						Dec-17						Dec-17				
CENTRL	Jan-17	1,482		22,561	196	MILLWD				1,422		NYISO	Jan-17	21,713	19,719	56,001	
	Feb-17	707		20,639	320		Feb-17			1,555			Feb-17	16,405	16,406	58,312	
	Mar-17	979	605	18,610	518		Mar-17		157	1,452	158		Mar-17	19,956	19,002	56,078	17,759
	Apr-17						Apr-17						Apr-17				
	May-17						May-17						May-17				
	Jun-17						Jun-17						Jun-17				
	Jul-17						Jul-17						Jul-17				
	Aug-17						Aug-17						Aug-17				
	Sep-17						Sep-17						Sep-17				
	Oct-17 Nov-17						Oct-17						Oct-17				
			ı – – – – – – – – – – – – – – – – – – –			1	Nov-17	1			I	1	Nov-17				1



Market Mitigation and Analysis Prepared: 4/11/2017 3:14 PM







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

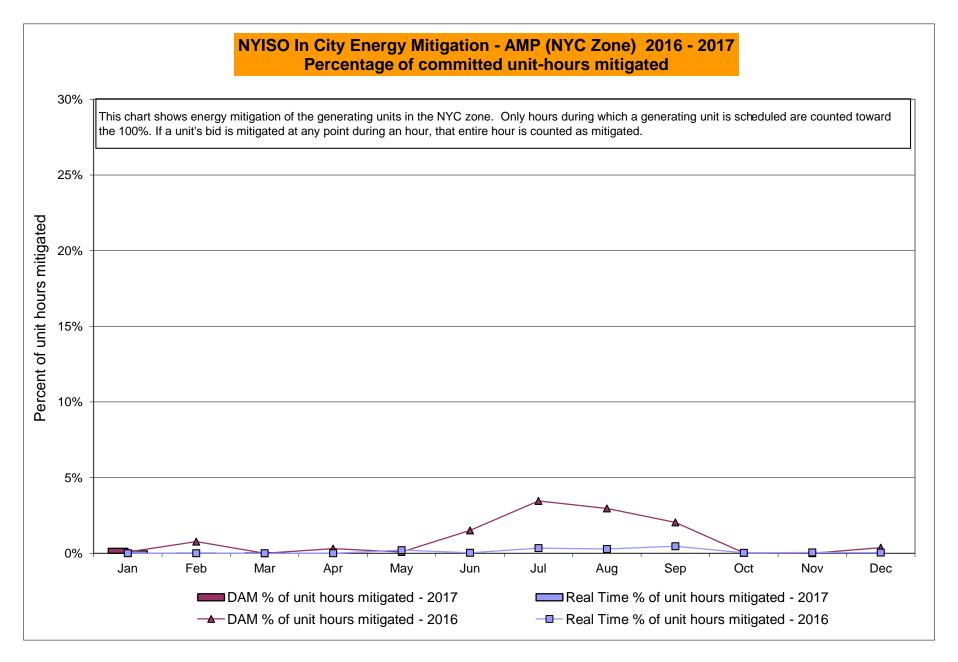
2017	January	February	March	<u>April</u>	May	<u>June</u>	July
Day Ahead Market	<u>oundary</u>	rebruary	Maron	<u>April</u>	<u>ividy</u>	<u>ounc</u>	<u>oury</u>
	E 01	4 69	F F 2				
10 Min Spin SENY (GHIJK)	5.01	4.68	5.53				
10 Min Spin East (F)	5.01	4.68	5.53				
10 Min Spin West (ABCDE)	4.94	4.56	5.31				
10 Min Non Synch SENY (GHIJK)	4.94	4.57	5.20				
10 Min Non Synch East (F)	4.94	4.57	5.20				
10 Min Non Synch West (ABCDE)	4.92	4.56	5.17				
30 Min SENY (GHIJK)	4.92	4.56	5.17				
30 Min East (F)	4.92	4.56	5.17				
30 Min West (ABCDE)	4.92	4.56	5.17				
Regulation	9.34	7.99	11.01				
Regulation	9.54	1.99	11.01				
RTC Market							
10 Min Spin SENY (GHIJK)	1.53	0.89	2.08				
10 Min Spin East (F)	1.53	0.89	2.08				
10 Min Spin West (ABCDE)	1.06	0.55	1.58				
10 Min Non Synch SENY (GHIJK)							
	0.06	0.06	0.10				
10 Min Non Synch East (F)	0.06	0.06	0.10				
10 Min Non Synch West (ABCDE)	0.00	0.00	0.10				
30 Min SENY (GHIJK)	0.00	0.00	0.10				
30 Min East (F)	0.00	0.00	0.10				
30 Min West (ABCDE)	0.00	0.00	0.10				
Regulation	9.21	6.59	11.37				
NYCA Regulation Movement	0.27	0.24	0.25				
NTCA Regulation movement	0.27	0.24	0.25				
<u>Real Time Market</u>							
10 Min Spin SENY (GHIJK)	3.29	2.61	5.56				
10 Min Spin East (F)	3.29	2.61	5.56				
10 Min Spin West (ABCDE)	2.71	1.71					
· · · · ·			4.65				
10 Min Non Synch SENY (GHIJK)	0.00	0.31	0.17				
10 Min Non Synch East (F)	0.00	0.31	0.17				
10 Min Non Synch West (ABCDE)	0.00	0.00	0.13				
30 Min SENY (GHIJK)	0.00	0.00	0.12				
30 Min East (F)	0.00	0.00	0.12				
30 Min West (ABCDE)	0.00	0.00	0.12				
Regulation	9.83	7.54	15.44				
NYCA Regulation Movement	0.27	0.24	0.25				
0010	La comercia	F 1	Manah	A	Maria	1	
<u>2016</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>
Day Ahead Market							
10 Min Spin SENY (GHIJK)	7.09	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin East (F)	7.09	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin West (ABCDE)	6.28	5.25	4.84	5.60	4.77	4.52	5.78
10 Min Non Synch SENY (GHIJK)	6.47	5.25	4.88	5.80	4.83	4.36	6.34
10 Min Non Synch East (F)	6.47	5.25	4.88	5.80	4.83	4.36	6.34
10 Min Non Synch West (ABCDE)	0.47				4.00		0.04
	6.00				1 69		
	6.23	5.20	4.84	5.58	4.68	4.32	5.72
30 Min SENY (GHIJK)	6.23	5.20 5.20	4.84 4.84	5.58 5.58	4.67	4.32 4.32	5.72 5.70
30 Min SENY (GHIJK) 30 Min East (F)	6.23 6.23	5.20 5.20 5.20	4.84 4.84 4.84	5.58 5.58 5.58	4.67 4.67	4.32 4.32 4.32	5.72 5.70 5.70
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	6.23 6.23 6.23	5.20 5.20 5.20 5.20	4.84 4.84 4.84 4.84	5.58 5.58 5.58 5.58	4.67 4.67 4.67	4.32 4.32 4.32 4.32	5.72 5.70 5.70 5.70
30 Min SENY (GHIJK) 30 Min East (F)	6.23 6.23	5.20 5.20 5.20	4.84 4.84 4.84	5.58 5.58 5.58	4.67 4.67	4.32 4.32 4.32	5.72 5.70 5.70
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	6.23 6.23 6.23	5.20 5.20 5.20 5.20	4.84 4.84 4.84 4.84	5.58 5.58 5.58 5.58	4.67 4.67 4.67	4.32 4.32 4.32 4.32	5.72 5.70 5.70 5.70
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u>	6.23 6.23 6.23 9.39	5.20 5.20 5.20 5.20 8.19	4.84 4.84 4.84 4.84 8.05	5.58 5.58 5.58 5.58 7.93	4.67 4.67 4.67 6.11	4.32 4.32 4.32 4.32 7.00	5.72 5.70 5.70 5.70 8.19
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK)	6.23 6.23 6.23 9.39 1.53	5.20 5.20 5.20 5.20 8.19 0.59	4.84 4.84 4.84 4.84 8.05	5.58 5.58 5.58 5.58 7.93 1.81	4.67 4.67 4.67 6.11 0.43	4.32 4.32 4.32 4.32 7.00	5.72 5.70 5.70 5.70 8.19 2.79
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)	6.23 6.23 6.23 9.39 1.53 1.53	5.20 5.20 5.20 5.20 8.19 0.59 0.59	4.84 4.84 4.84 4.84 8.05 0.71 0.71	5.58 5.58 5.58 7.93 1.81 1.81	4.67 4.67 4.67 6.11 0.43 0.43	4.32 4.32 4.32 4.32 7.00 0.49 0.46	5.72 5.70 5.70 5.70 8.19 2.79 2.77
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)	6.23 6.23 6.23 9.39 1.53 1.53 0.42	5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26	4.84 4.84 4.84 8.05 0.71 0.71 0.08	5.58 5.58 5.58 7.93 1.81 1.81 0.95	4.67 4.67 6.11 0.43 0.43 0.23	4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72
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)	6.23 6.23 6.23 9.39 1.53 1.53	5.20 5.20 5.20 5.20 8.19 0.59 0.59	4.84 4.84 4.84 4.84 8.05 0.71 0.71	5.58 5.58 5.58 7.93 1.81 1.81	4.67 4.67 4.67 6.11 0.43 0.43	4.32 4.32 4.32 4.32 7.00 0.49 0.46	5.72 5.70 5.70 5.70 8.19 2.79 2.77
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)	6.23 6.23 6.23 9.39 1.53 1.53 0.42	5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26	4.84 4.84 4.84 8.05 0.71 0.71 0.08	5.58 5.58 5.58 7.93 1.81 1.81 0.95	4.67 4.67 6.11 0.43 0.43 0.23	4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72
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) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45	5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00	4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87
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 West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04	5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00	4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04 0.01	5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00	4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94
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 Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01	5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00	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	5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14	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	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	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min 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)	6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01	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	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 0.00	5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14	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	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 0.02 0.02	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation	$\begin{array}{c} 6.23 \\ 6.23 \\ 6.23 \\ 9.39 \end{array}$ $\begin{array}{c} 1.53 \\ 1.53 \\ 0.42 \\ 0.45 \\ 0.45 \\ 0.04 \\ 0.01 \\ 0.01 \\ 0.01 \\ 0.01 \\ 8.04 \end{array}$	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 0.00 0.00 0.00 0.00 0.00 0.00 0.686	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	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.67 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	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	5.72 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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min 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)	6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01	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	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 0.00	5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14	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	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 0.02 0.02	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min 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	$\begin{array}{c} 6.23 \\ 6.23 \\ 6.23 \\ 9.39 \end{array}$ $\begin{array}{c} 1.53 \\ 1.53 \\ 0.42 \\ 0.45 \\ 0.45 \\ 0.04 \\ 0.01 \\ 0.01 \\ 0.01 \\ 0.01 \\ 8.04 \end{array}$	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 0.00 0.00 0.00 0.00 0.00 0.00 0.686	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	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.67 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	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	5.72 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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market	$\begin{array}{c} 6.23 \\ 6.23 \\ 6.23 \\ 9.39 \\ \end{array}$ $\begin{array}{c} 1.53 \\ 1.53 \\ 0.42 \\ 0.45 \\ 0.45 \\ 0.04 \\ 0.01 \\ 0.01 \\ 0.01 \\ 0.01 \\ 8.04 \\ 0.23 \end{array}$	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 0.00 0.00 0.00 0.21	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 7.15 0.20	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.25	$\begin{array}{c} 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ 0.43 \\ 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 5.43 \\ 0.25 \end{array}$	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	5.72 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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)	6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.45 0.04 0.01 0.01 0.01 8.04 0.23 7.51	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	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	5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	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	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	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	6.23 6.23 9.39 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 7.51 7.51	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 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12	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 0.00 0.00 0.00	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.67 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	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40	5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.73
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}$ $\begin{array}{c} 7.51\\ 7.51\\ 4.17\\ \end{array}$	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 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 0.58	4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.25 4.34 4.34 2.23	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ \end{array}$	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	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}\\ \begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ \end{array}$	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 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 0.58 0.00	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 7.15 0.20 1.73 1.73 1.73 0.48 0.22	5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 2.23 1.20	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ \end{array}$	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	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}\\ \begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 4.26\\ \end{array}$	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 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 1.12 0.58 0.00 0.00 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$ $\begin{array}{c} 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.06\\ \end{array}$	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	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}\\ \begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ \end{array}$	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 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 0.58 0.00	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 7.15 0.20 1.73 1.73 1.73 0.48 0.22	5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 2.23 1.20	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ \end{array}$	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	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}\\ \begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 4.26\\ \end{array}$	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 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 1.12 0.58 0.00 0.00 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$ $\begin{array}{c} 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.06\\ \end{array}$	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	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.1\\ 0.$	5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \hline 0.71\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \hline 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ 0.00\\ \hline \end{array}$	5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 4.34 2.23 1.20 1.20 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$ $\begin{array}{c} 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.03\\ 0.03\\ 0.03\\ \end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}\\ \begin{array}{c} 7.51\\ 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 1.89\\ 0.06\\ 0.06\\ 0.06\\ \end{array}$	5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \hline 0.71\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \hline 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$ $\begin{array}{c} 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ \end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation PTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}\\ \begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 1.89\\ 0.06\\ 0.06\\ 0.06\\ 0.06\\ \end{array}$	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 0.00 0.00 0.00 0.21 1.12 1.12 1.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \hline 0.71\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \hline 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0$	5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 1.20 0.25 0.25 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation PTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min S	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.00\\ 1.80\\ 0.06\\ 0.06\\ 0.06\\ 10.66\\ \end{array}$	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 0.00 0.00 0.21 1.12 1.12 1.12 1.12 1.12 0.58 0.00 0.00 0.00 0.00 0.00 0.00 0.21	$\begin{array}{c} 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \hline 0.71\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \hline 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.73\\ \end{array}$	5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.25 1.20 1.20 0.25 0.25 0.25 0.25 8.30	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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 8.37
30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation PTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK	$\begin{array}{c} 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}\\ \begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}\\ \begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 1.89\\ 0.06\\ 0.06\\ 0.06\\ 0.06\\ \end{array}$	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 0.00 0.00 0.00 0.21 1.12 1.12 1.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \hline 0.71\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \hline 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0$	5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 1.20 0.25 0.25 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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

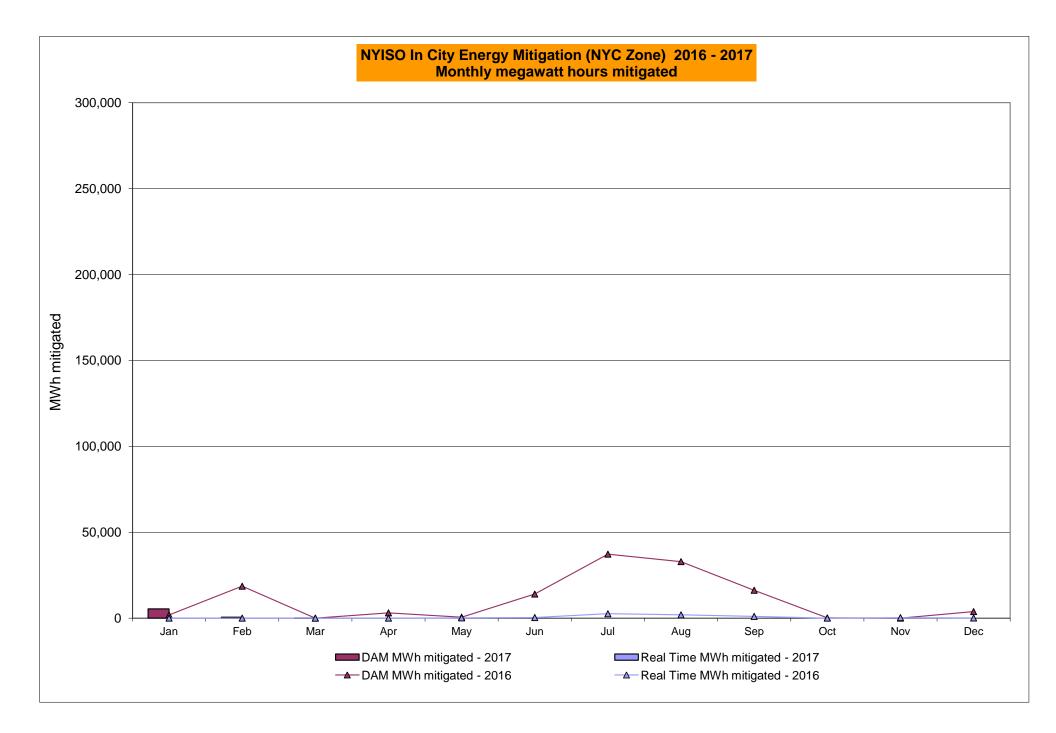
<u>August</u> September

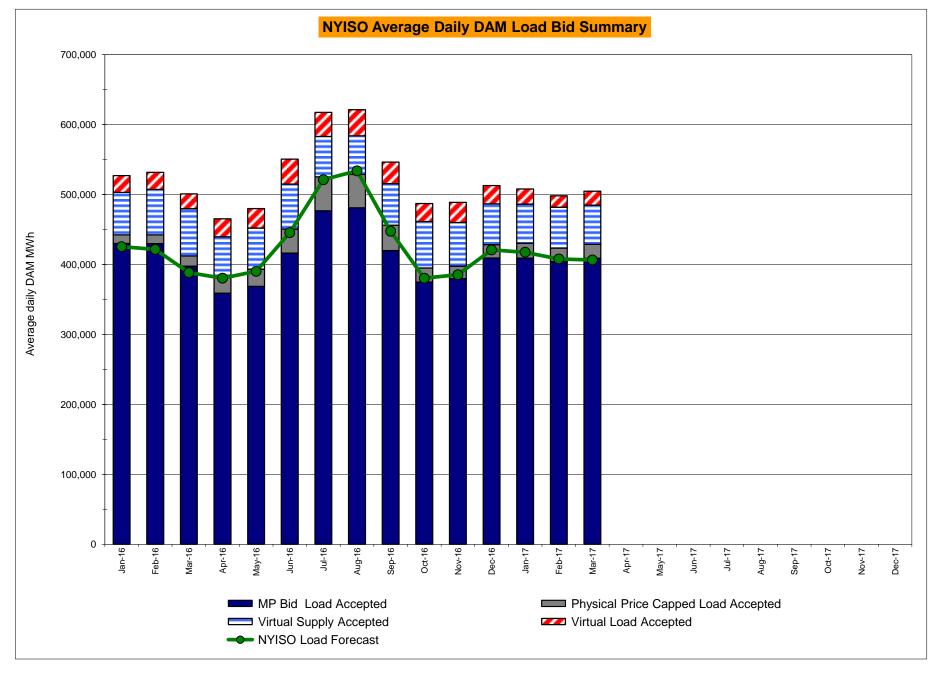
October November December

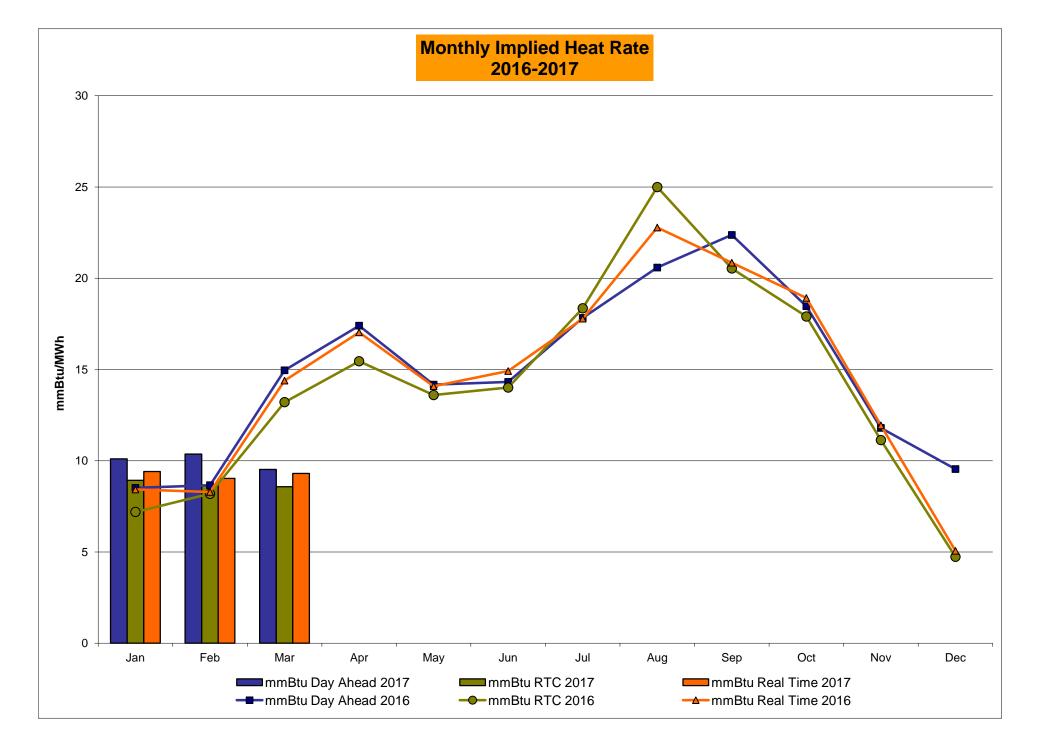
<u>August</u>	<u>September</u>	October	November	December
7.12	5.57	5.37	4.83	4.89
7.12	5.57	5.37	4.83	4.89
6.20	5.14	4.89	4.50	4.73
7.07	5.52	5.09	4.43	4.49
7.07	5.52	5.09	4.43	4.49
6.15	5.10	4.82	4.39	4.43
6.15	5.10	4.82	4.39	4.43
6.15	5.10	4.82	4.39	4.43
6.15	5.10	4.82	4.39	4.43
8.61	7.00	8.57	7.77	13.80
7.26	0.61	0.99	1.05	1.92
6.88	0.61	0.99	1.05	1.92
4.80	0.30	0.29	0.82	1.14
6.06	0.21	0.09	0.00	0.00
5.67	0.21	0.09	0.00	0.00
3.80	0.16	0.08	0.00	0.00
3.65	0.15	0.08	0.00	0.00
3.27	0.15	0.08	0.00	0.00
3.27	0.15	0.08	0.00	0.00
10.25	5.52	6.86	7.00	16.70
0.24	0.24	0.26	0.24	0.26
8.04	1.59	1.96	2.69	3.18
7.68	1.59	1.96	2.69	3.18
4.72	0.90	1.16	2.29	2.33
6.70	0.59	0.18	0.00	0.00
6.34	0.59	0.18	0.00	0.00
3.56	0.21	0.11	0.00	0.00
3.48	0.21	0.11	0.00	0.00
3.12	0.21	0.11	0.00	0.00
3.12	0.21	0.11	0.00	0.00
10.31	6.42	7.70	8.21	14.88
0.24	0.24	0.26	0.23	0.24

Changes have been made to this table due to Comprehensive Scarcity Pricing activation in June 2016.

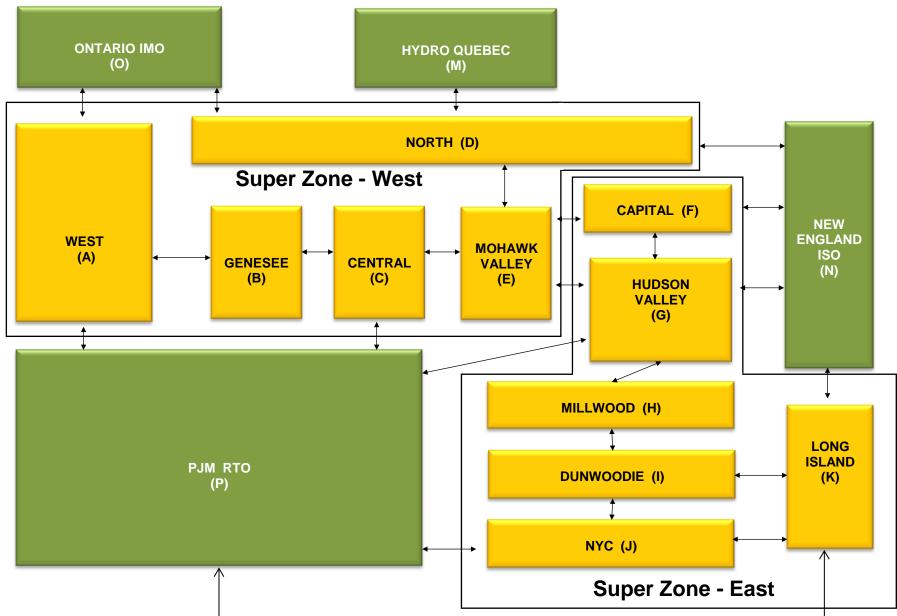








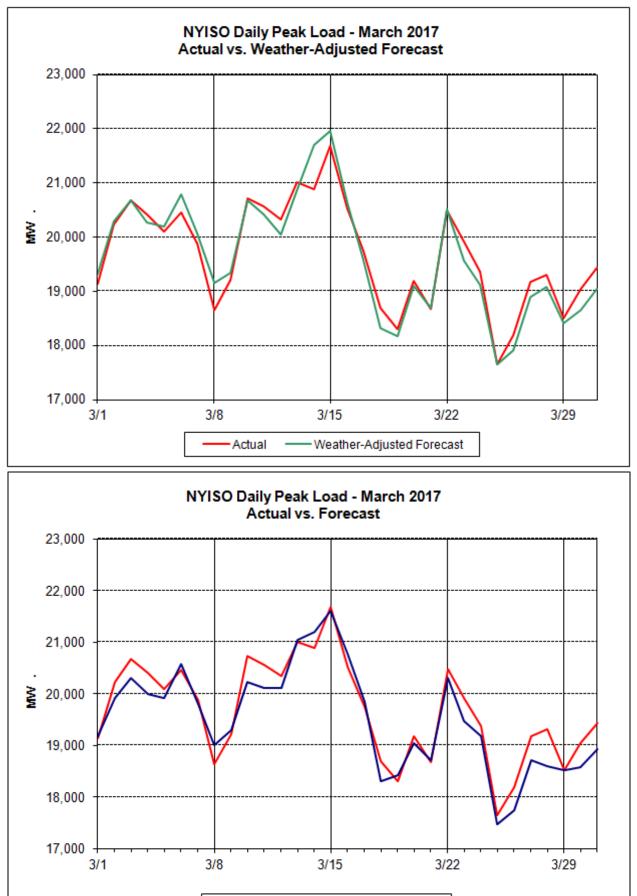
NYISO LBMP ZONES

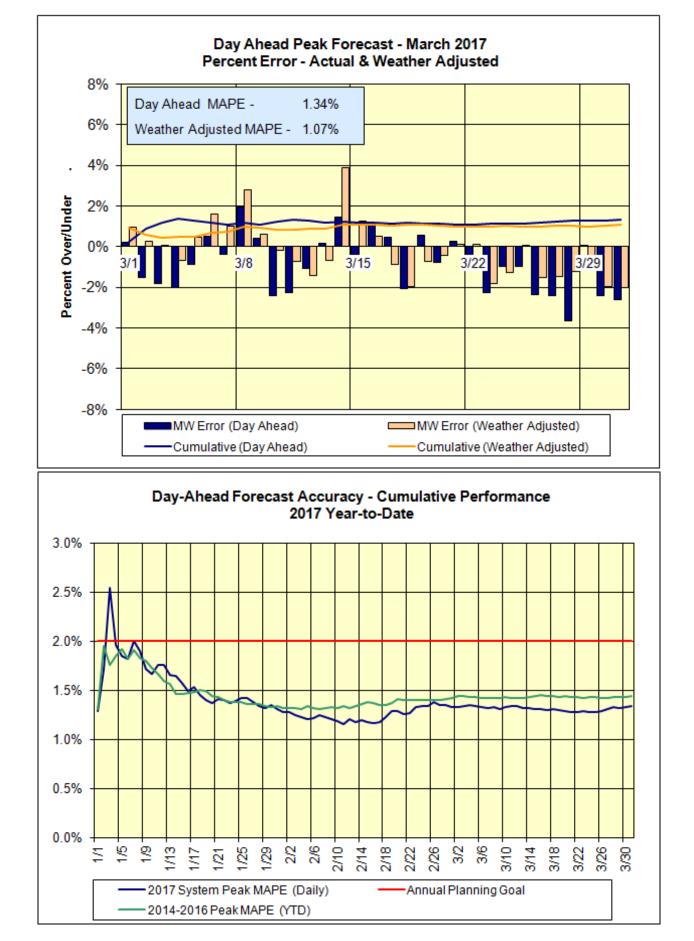


Market Mitigation and Analysis Prepared: 4/7/2017 10:26 AM

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 – March 2017

Filing Date	Filing Summary	Docket	Order Date	Order Summary
01/31/2017	NYISO and PJM joint 205 filing re: revisions to the Joint Operating Agreement addressing Interchange Scheduling and Market-to-Market Coordination on the ABC Interface and JK Interface after the 1,000 MW Wheel concludes	ER17-905-000	03/31/2017	FERC order accepted (effective 05/01/2017, as requested) and suspended the filing, subject to refund and further FERC order
02/02/2017	NYISO compliance filing re: notice of the effective date for the ICAP Demand Curve reset process revisons	ER16-1751-001	03/24/2017	FERC letter order accepted notice of effective date (i.e., 02/16/2017), as requested
02/03/2017	NYISO compliance filing re: effective date designation for UDR related tariff revisions	ER16-959-001	03/02/2017	FERC letter order accepted filing effective 02/17/2017, as requested
02/06/2017	NYISO 205 filing re: amend MST 23.4.5.5 governing the circumstances under which a Market Party will be deemed to be a Pivotal Supplier in a Mitigated Capacity Zone	ER17-941-000	03/24/2017	FERC letter order accepted revisions effective 04/07/2017, as requested
02/14/2017	NYISO compliance filing re: notice of effective date for revised fixed block unit pricing logic	ER17-549-001	03/28/2017	FERC letter order accepted notice of effective date (i.e., 02/28/2017), as requested
03/06/2017	NYISO request for clarification of 02/03/2017 order re: statement concerning mitigation redeterminations and implications on the retesting provisions of the buyer-side market power mitigation rules	EL16-92-001		
03/10/2017	NYISO and PJM joint filing re: answer to third party comments concerning the Joint Operating Agreement revisions addressing interchange scheduling and market- to-market coordination at certain interfaces after the 1000 MW Wheel concludes	ER17-905-000		
03/13/2017	NYISO 205 filing re: OATT and Services Tariff revisions to implement (i) a monthly balance-of-period Transmission Congestion Contract ("TCC") auction structure; and (ii) enhancements to the credit requirements for TCCs	ER17-1167-000		
03/15/2017	NYISO filing to the NYS Joint Commission on Public Ethics re: bimonthly report for January – February 2017	No Docket No.		

03/15/2017	NYISO confidential filing to the NY Public Service Commission re: three-month Reliability Commitment Data Report for the period ending 02/28/2017	PSC Matter No. 10-02007
03/20/2017	NYISO compliance filing re: Fourth Broader Regional Markets Informational Report	ER08-1281-000
03/20/2017	NYISO compliance refiling re: Fourth Broader Regional Markets Informational Report to include a certificate of service	ER08-1281-000
03/21/2017	NYISO 205 filing re: enhancements to the Day-Ahead Margin Assurance Payment program rules	ER17-1279-000
03/22/2017	IRC late filed motion to intervene and supporting comments re: the NERC compliance monitoring and enforcement program ("CMEP") filing	RR15-2-000
03/27/2017	NYISO filing re: motion to terminate annual informational reporting obligation concerning broader regional markets	ER08-1281-006
03/27/2017	NYISO filing on behalf of the NYSPSC re: cost allocation under the OATT consistent with public policy transmission planning process	ER17-1310-000
03/28/2017	NYISO filing re: annual compliance report on unreserved use and late study penalty assessments and distributions	OA08-109-000
03/29/2017	NYISO and PJM joint filing re: out of time motion to intervene and answer to the Linden VFT motion concerning the NYISO and PJM joint filing addressing interchange scheduling and the implementation of Market- to-Market coordination	ER17-905-000
03/31/2017	NYISO filing re: annual submission of FERC Form 715 – Annual Transmission Planning and Evaluation Report (CEII status)	No Docket No.
03/31/2017	NYISO courtesy filing to the NYSPSC re: annual submission of FERC Form 715 – Annual Transmission Planning and Evaluation Report (CEII status)	No Docket No.
03/31/2017	NYISO late filed motion to intervene and protest re: PJM's proposed external capacity enhancements to its OATT and Reliability Assurance Agreement	ER17-1138-000
03/31/2017	NYISO compliance filing re: demand response compensation provisions in response to FERC's 01/30/2017 order	ER11-4388-001, et. al.