

Monthly Report

December 2017



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Operations Performance Metrics Monthly Report



December 2017 Report

Operations & Reliability Department New York Independent System Operator



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December 2017 Operations Performance Highlights

- Peak load of 24,256 MW occurred on 12/28/2017 HB 17
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 0 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- 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	\$3.31	\$15.93
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.18	(\$0.96)
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.05)	(\$1.22)
Total NY Savings	\$3.44	\$13.75
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.25	\$3.08
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.01	\$1.04
Total Regional Savings	\$0.26	\$4.12

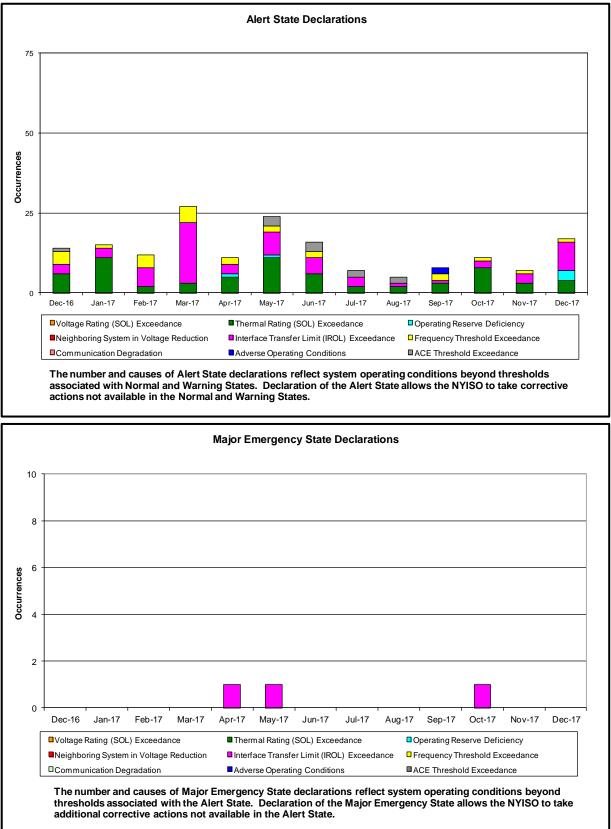
- Statewide uplift cost monthly average was (\$0.78)/MWh
- The following table identifies the Monthly ICAP Spot Market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
January 2018 Spot Price	\$0.44	\$3.19	\$3.19	\$0.70
December 2017 Spot Price	\$0.25	\$3.38	\$3.38	\$0.68
Delta	\$0.19	(\$0.19)	(\$0.19)	\$0.02

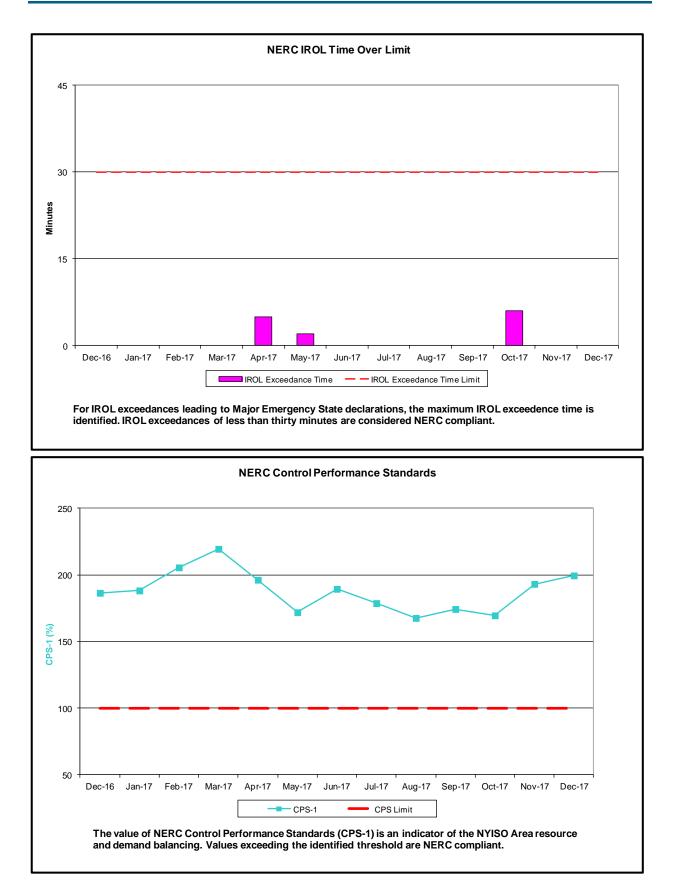
- NYC Price decrease by \$0.19 due to decreases in unoffered capacity
- GHIJ Price decrease by \$0.19 due to decreases in unoffered capacity
- NYCA Price increase by \$0.19 due to changes in unoffered capacity, imports, and exports.



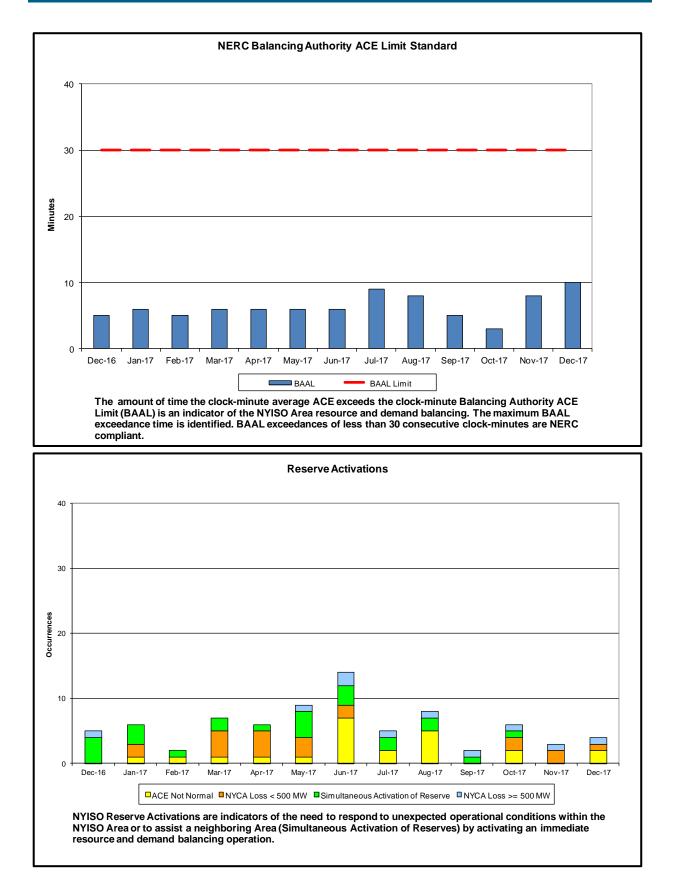
• Reliability Performance Metrics



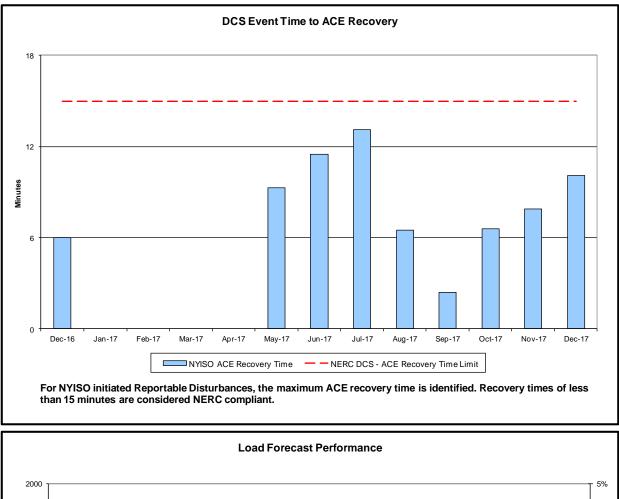


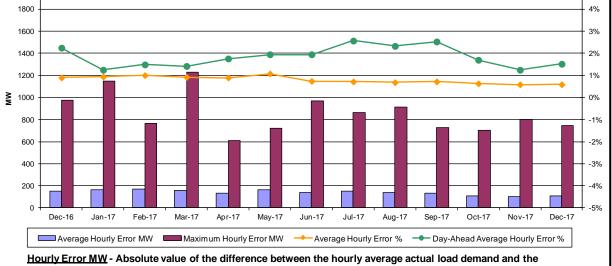








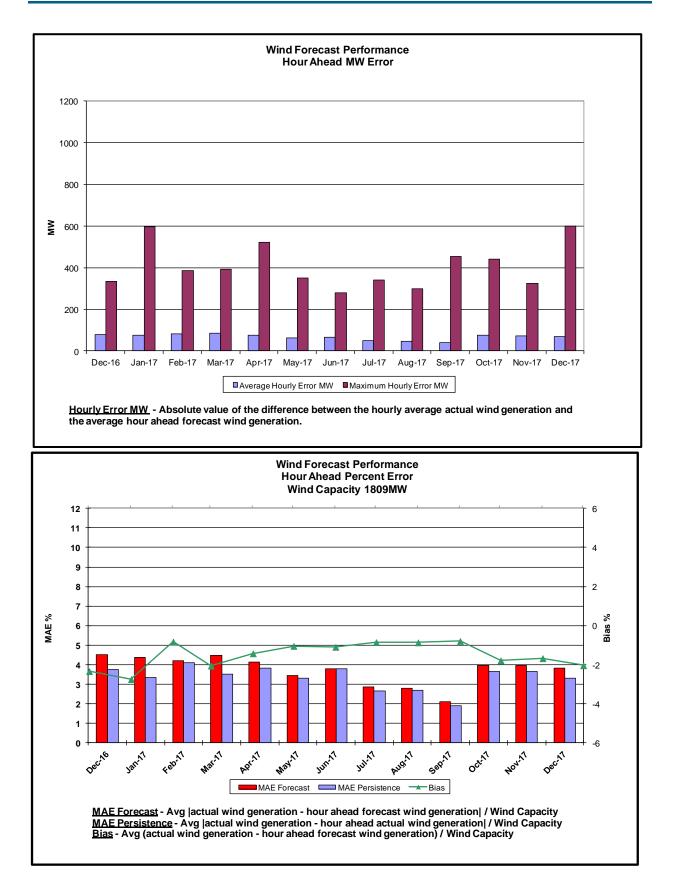




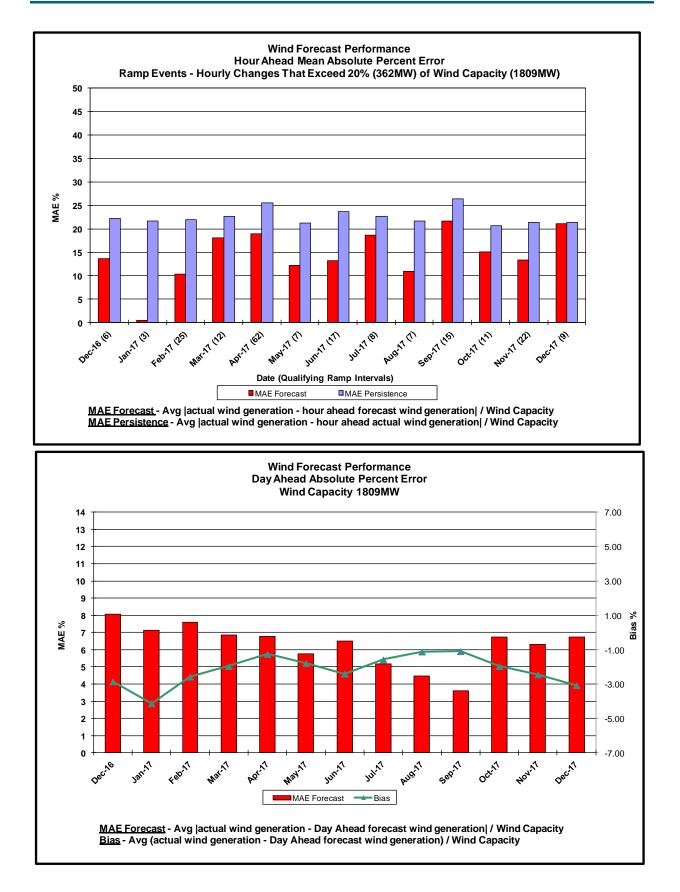
average hour ahead forecast load demand. <u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

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.

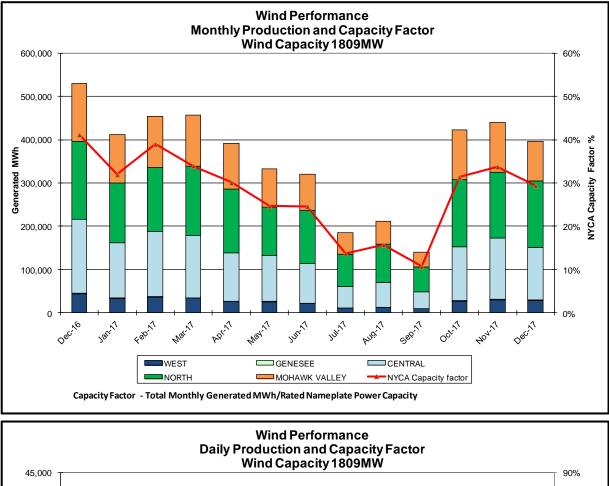


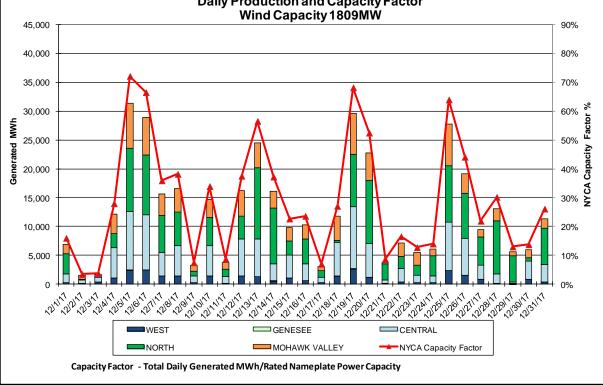




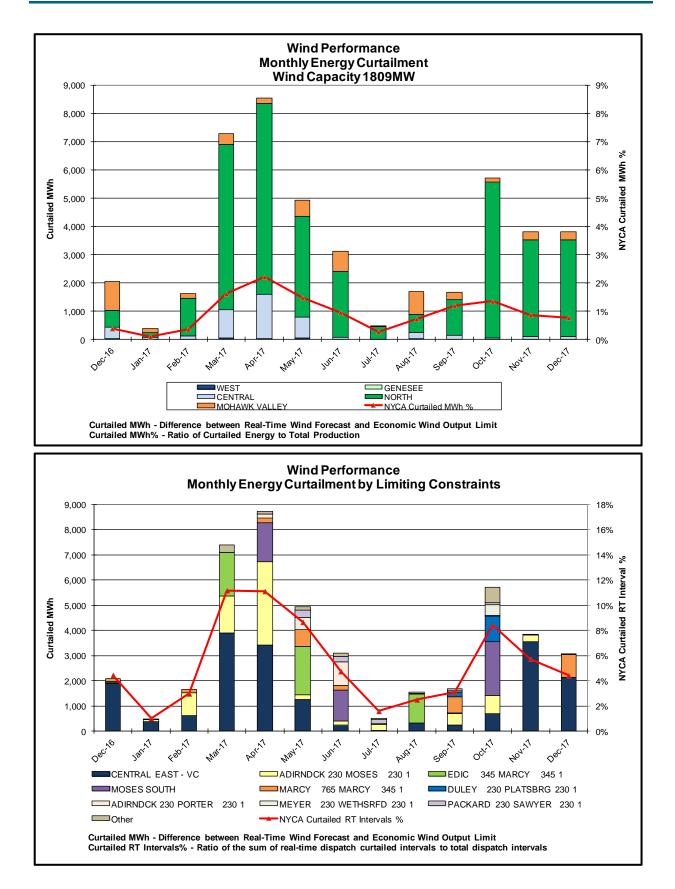




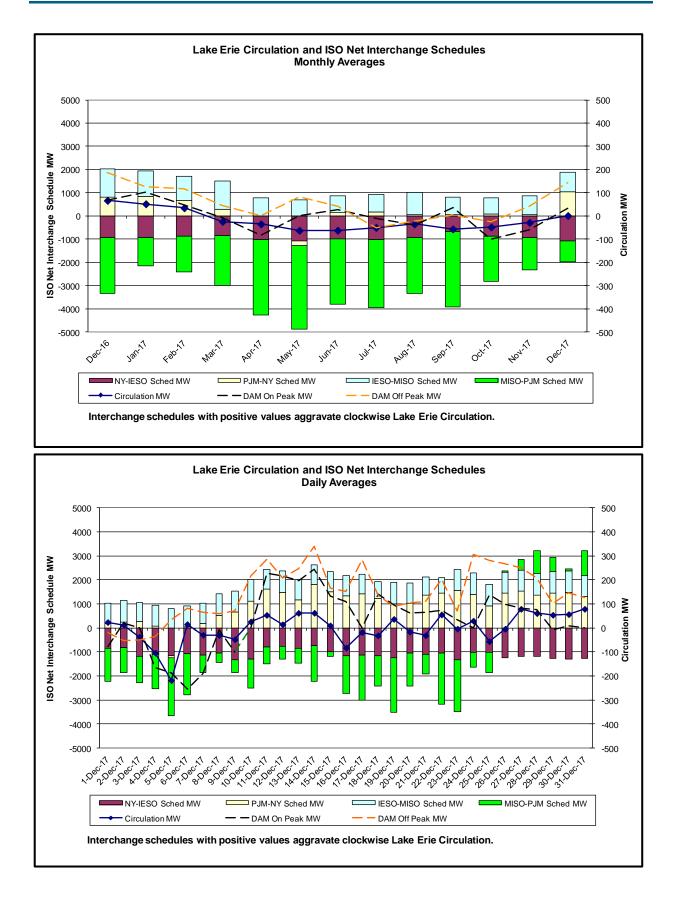




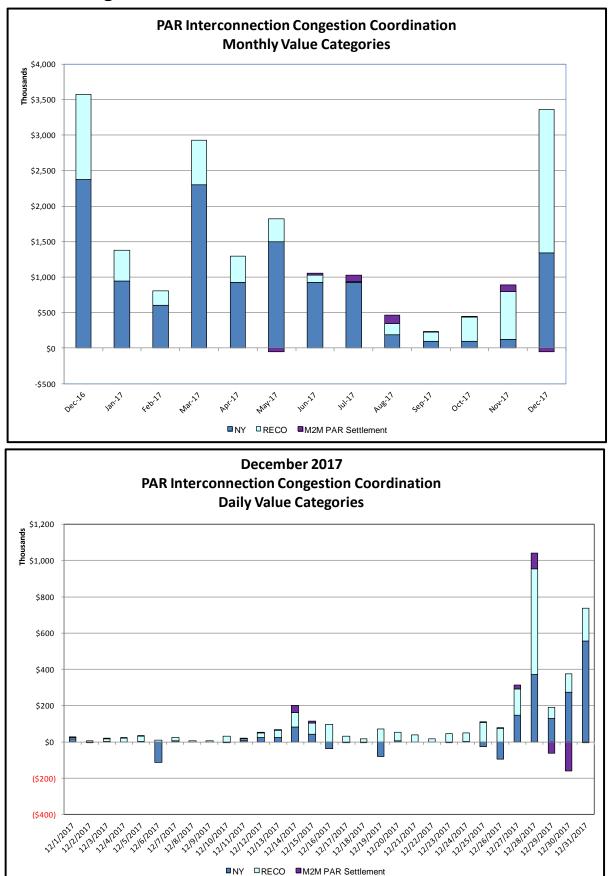










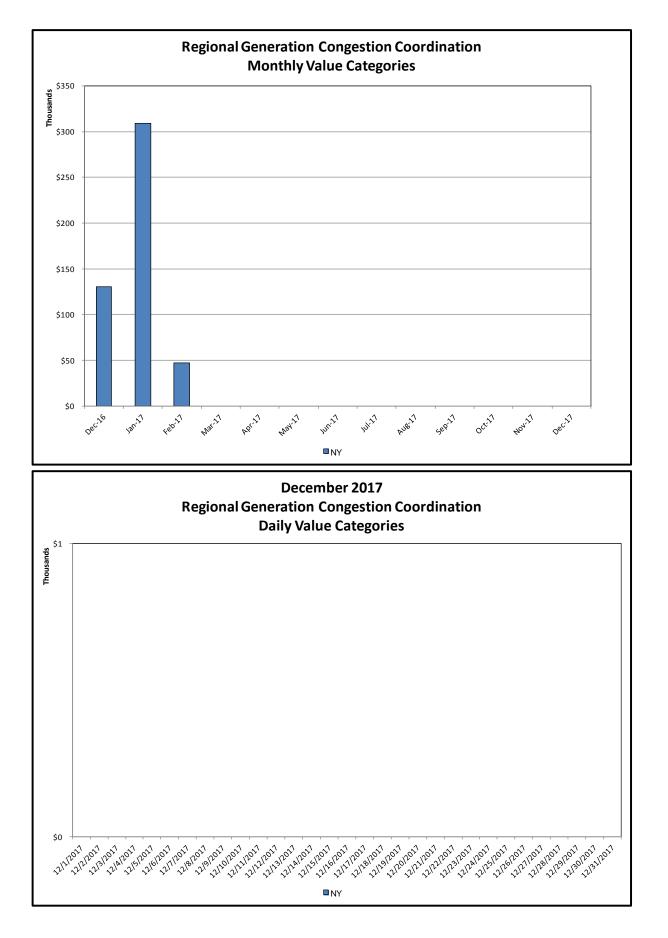


Broader Regional Market Performance Metrics



PAR Interconnection Congestion Coordination Category Description NY Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY RECO Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 5018. This is the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018. M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017 this value was included in the NY and RECO categories. The positive sign convention indicates settlement to NY while the negative indicates settlement to PJM.







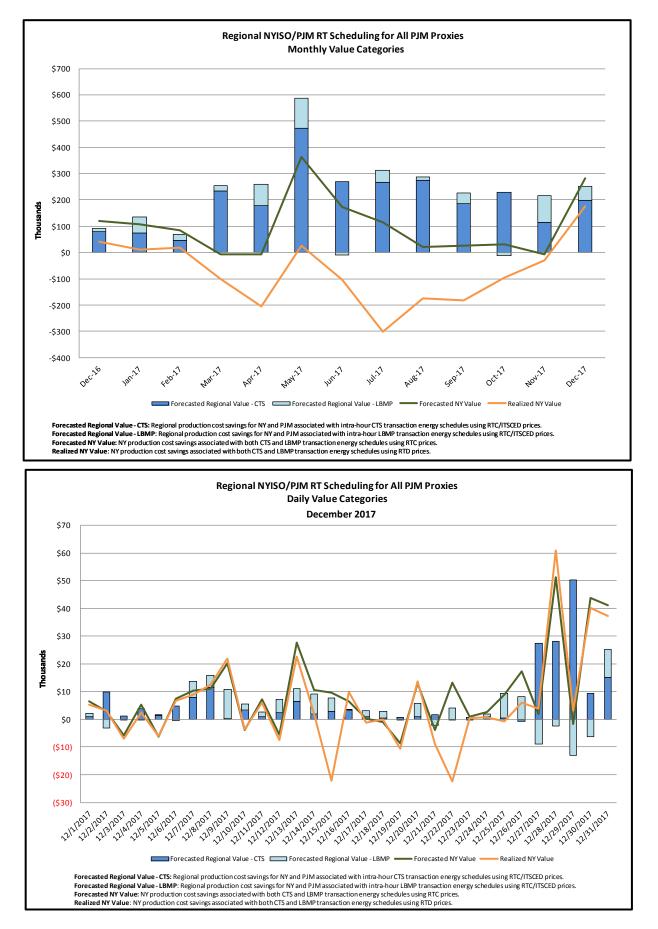
Regional Generation Congestion Coordination

<u>Category</u> NY

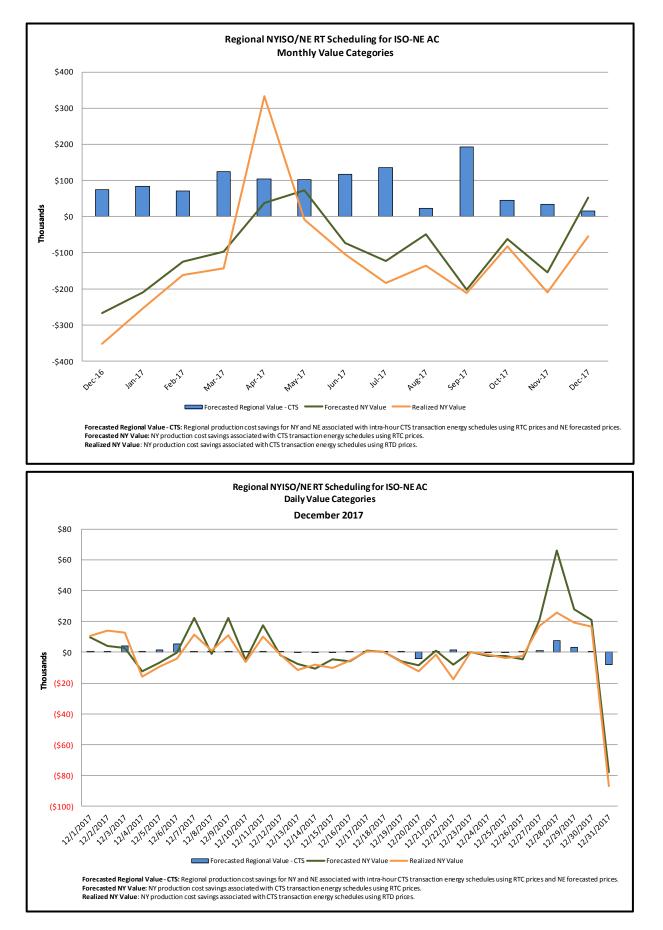
Description

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.



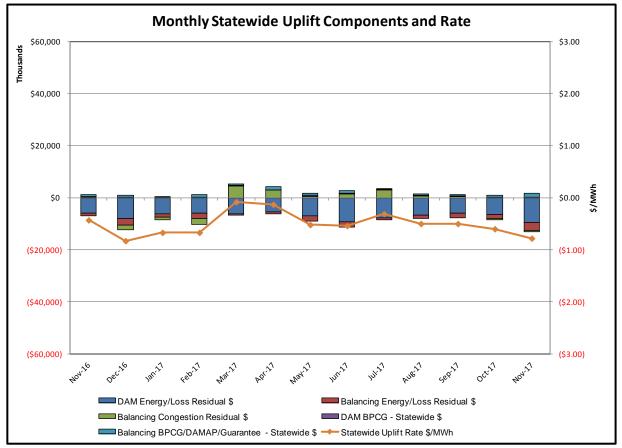




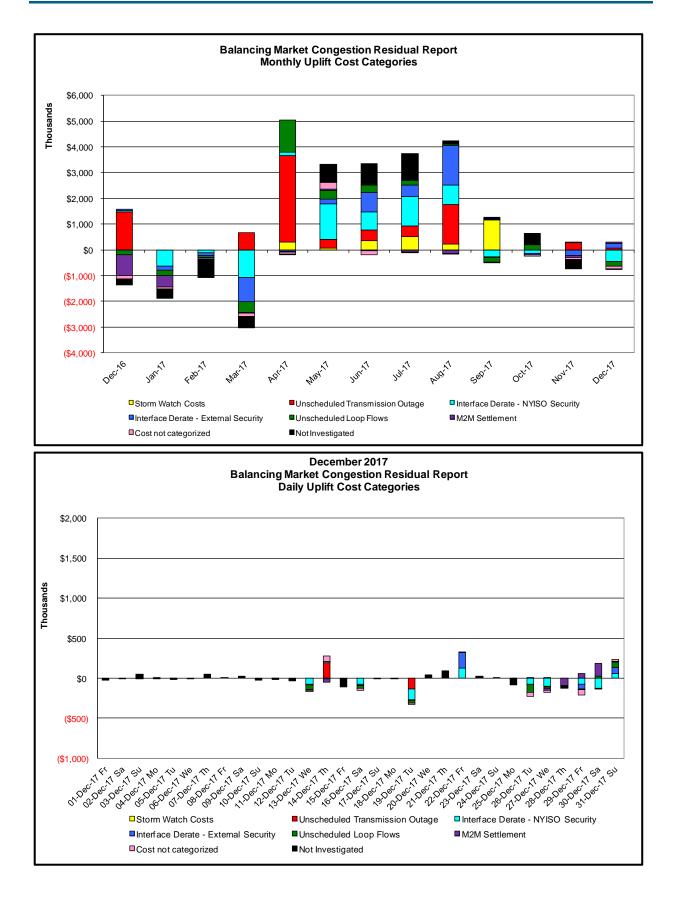




Market Performance Metrics









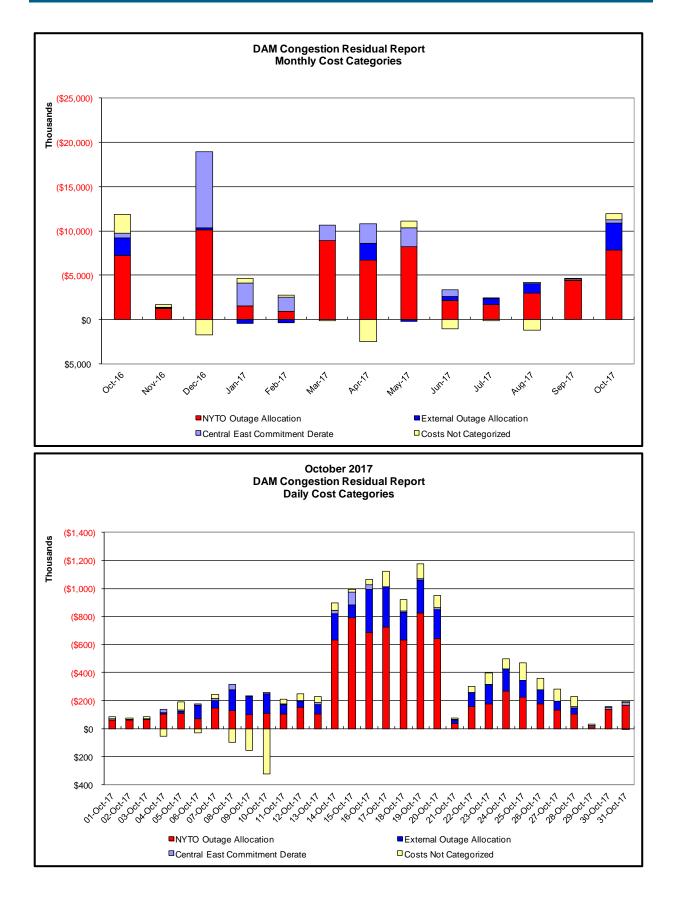
ent	Date (yyyymmdd)	r:,13,14,16,19,22,26,27, Hours	Description					
ent	12/13/2017		Uprate Central East					
	12/13/2017		Uprate East 179th Street - Heligate 138kV (#15055)					
	12/13/2017		Derate Gowanus-Greenwood 138kV (#42231) for TWR:GOETHALS 22 & 21					
			Derate Athens-Pleasant Valley 345kV (#91) for TWR:UCC2-41&FCC-33					
	12/13/2017							
	12/13/2017		HQ_CHAT Active DNI Ramp Limit					
	12/13/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Athens-Pleasant Valley					
	12/14/2017		Forced Outage of Freeport-Newbridge 138kV (#461)					
	12/14/2017		NYCA DNI Ramp Limit					
	12/14/2017		Jprate East 179th Street - Heligate 138kV (#15055)					
	12/14/2017		Derate Athens-Pleasant Valley 345kV (#91) for TWR:UCC2-41&FCC-33					
	12/14/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					
	12/16/2017		Uprate Central East					
	12/16/2017	9,13,14,16	NE_AC-NY Scheduling Limit					
	12/16/2017	5	NE_AC Active DNI Ramp Limit					
	12/16/2017	2-5,7,13-16	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					
	12/19/2017		Early return to service of Marion-Farragut 345kV (#C3403)					
	12/19/2017		Uprate Central East					
	12/19/2017		NE_AC-NY Scheduling Limit					
	12/19/2017		NE_AC Active DNI Ramp Limit					
	12/19/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					
	12/22/2017		NYCA DNI Ramp Limit					
	12/22/2017		HQ_Cedars-NY Scheduling Limit					
	12/22/2017		HQ CHAT-NY Scheduling Limit					
	12/22/2017		HQ_CHAT Active DNI Ramp Limit					
	12/22/2017		PJM_AC-NY Scheduling Limit					
	12/22/2017		PJM_AC Active DNI Ramp Limit					
			NE_AC Active DNI Ramp Limit					
	12/22/2017							
	12/26/2017		Uprate Central East					
	12/26/2017		HQ_CHAT-NY Scheduling Limit					
	12/26/2017		PJM_AC-NY Scheduling Limit					
	12/26/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					
	12/27/2017		Forced outage of Marion-Farragut 345kV (#C3403)					
	12/27/2017	7,11,13-15,19-21,23						
	12/27/2017		Uprate East 179th Street-Hellgate 138kV (#15055)					
	12/27/2017		NYCA DNI Ramp Limit					
	12/27/2017		Derate Central East					
	12/27/2017		IESO-NY Scheduling Limit					
	12/27/2017		IESO Active DNI Ramp Limit					
	12/27/2017		NE-NY Scheduling Limit					
	12/27/2017		PJM_AC-NY Scheduling Limit					
	12/27/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					
	12/29/2017		Uprate Central East					
	12/29/2017		NE_AC-NY Scheduling Limit					
	12/29/2017	23	NE_AC Active DNI Ramp Limit					
	12/29/2017	8,10-12	PJM_AC-NY Scheduling Limit					
	12/29/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					
		0,7,10-12,15,16,18-21						
	12/30/2017		HQ_CHAT-NY Scheduling Limit					
	12/30/2017		NE-NY Scheduling Limit					
	12/30/2017		PJM_AC-NY Scheduling Limit					
	12/30/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					
	12/31/2017		Uprate Central East					
	12/31/2017		Derate Central East					
	12/31/2017		NYCA DNI Ramp Limit					
	12/31/2017		NE_AC DNI Ramp Limit					
			NE-NY Scheduling Limit					
	12/31/2017 12/31/2017		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					



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

ategory <u>Cost Assignmen</u> orm Watch 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 							

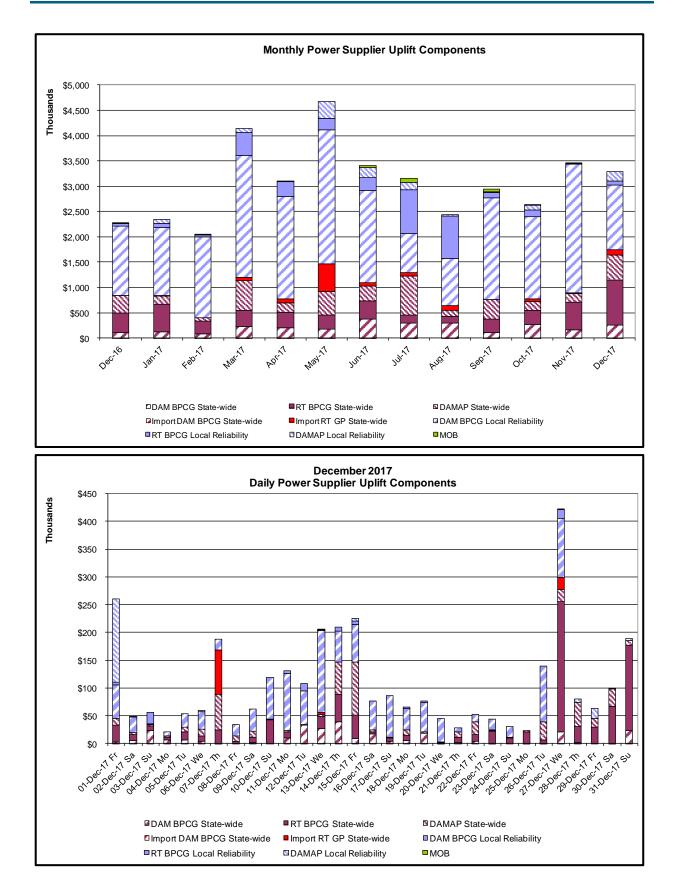




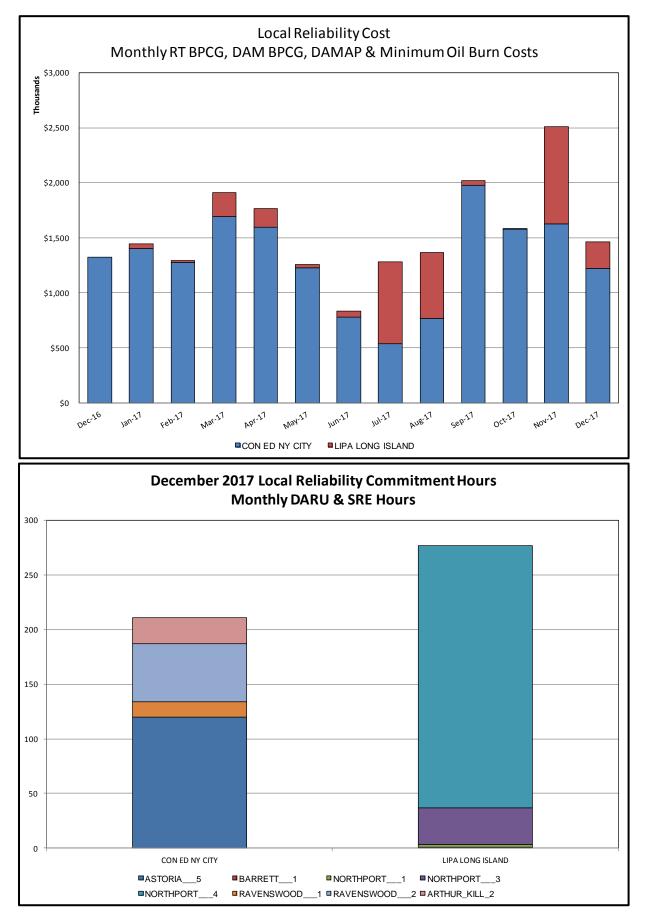


Day-Ahead Market Congestion Residual Categories								
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	<u>Event Examples</u> DAM scheduled outage for equipment modeled in-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

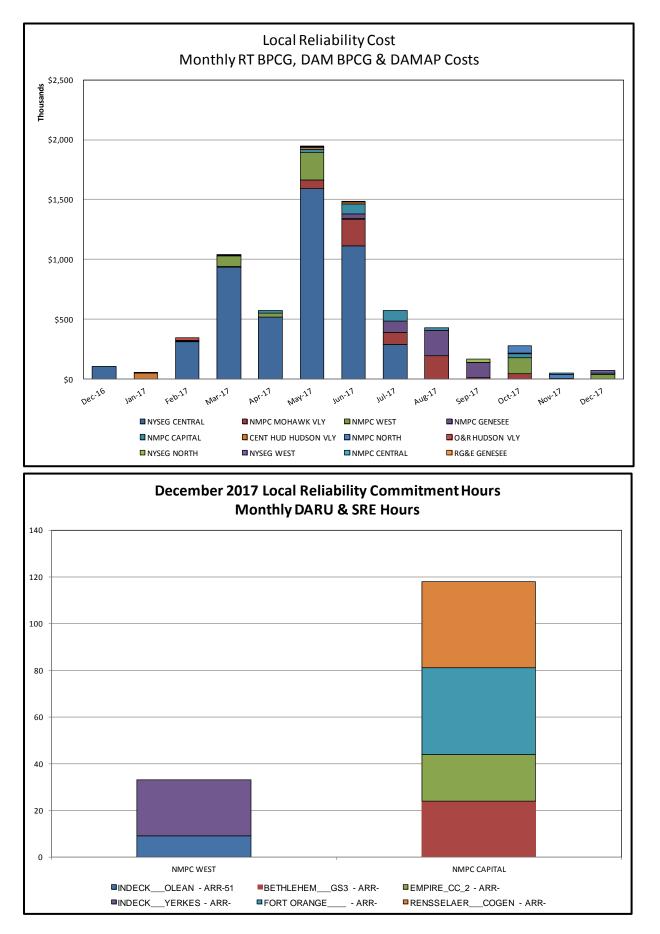




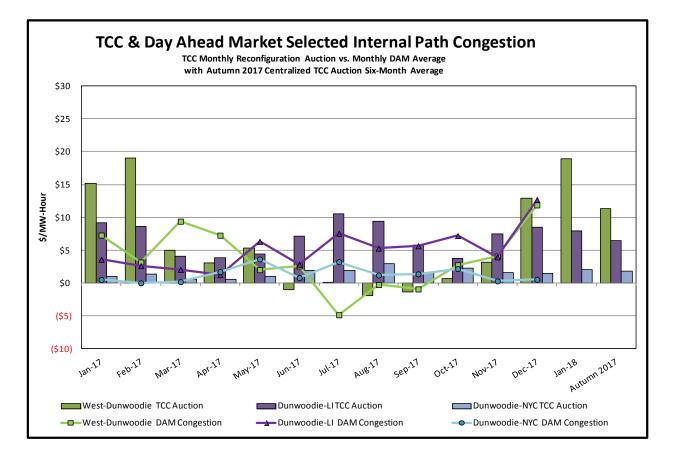


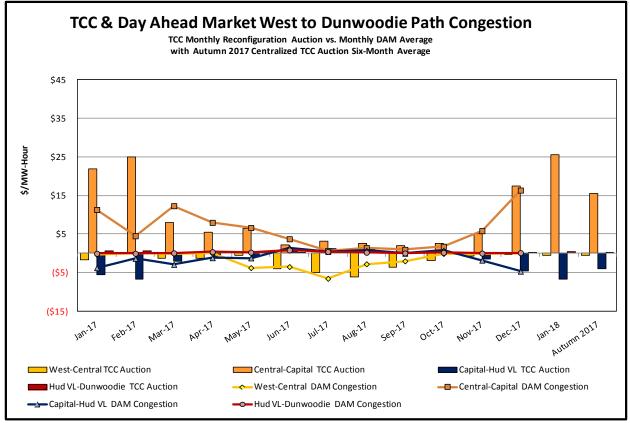




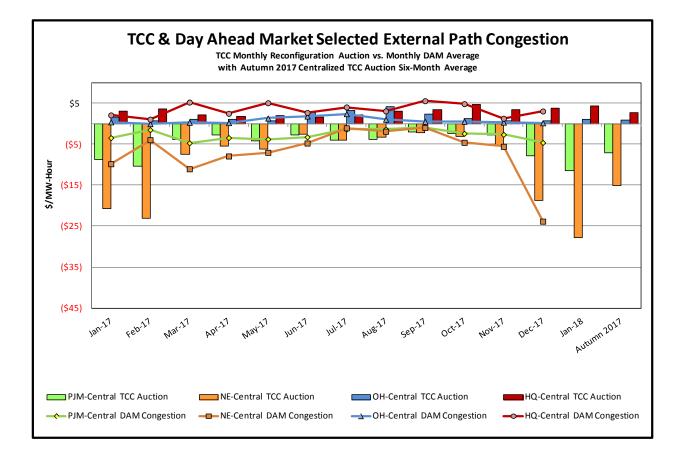




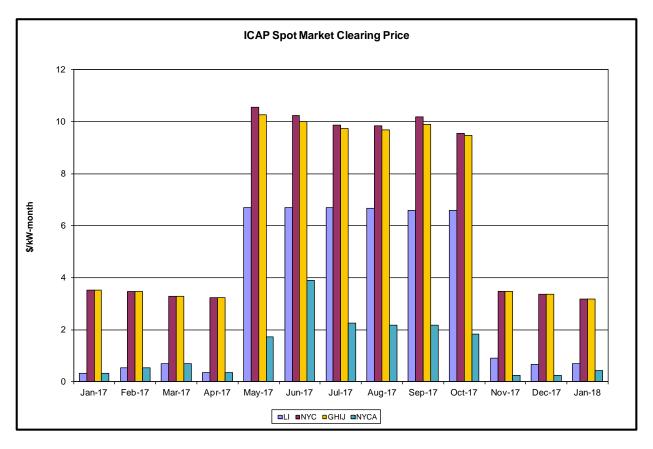


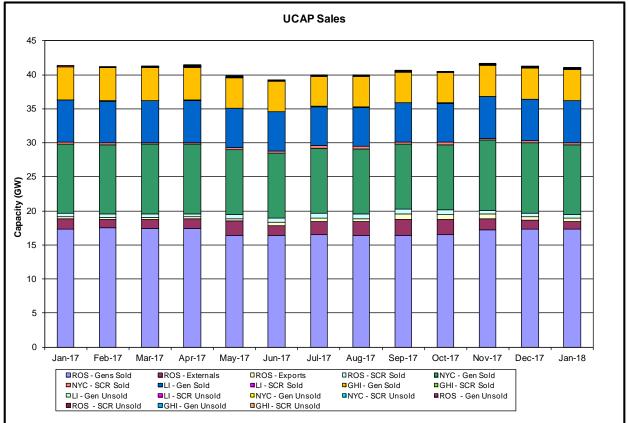






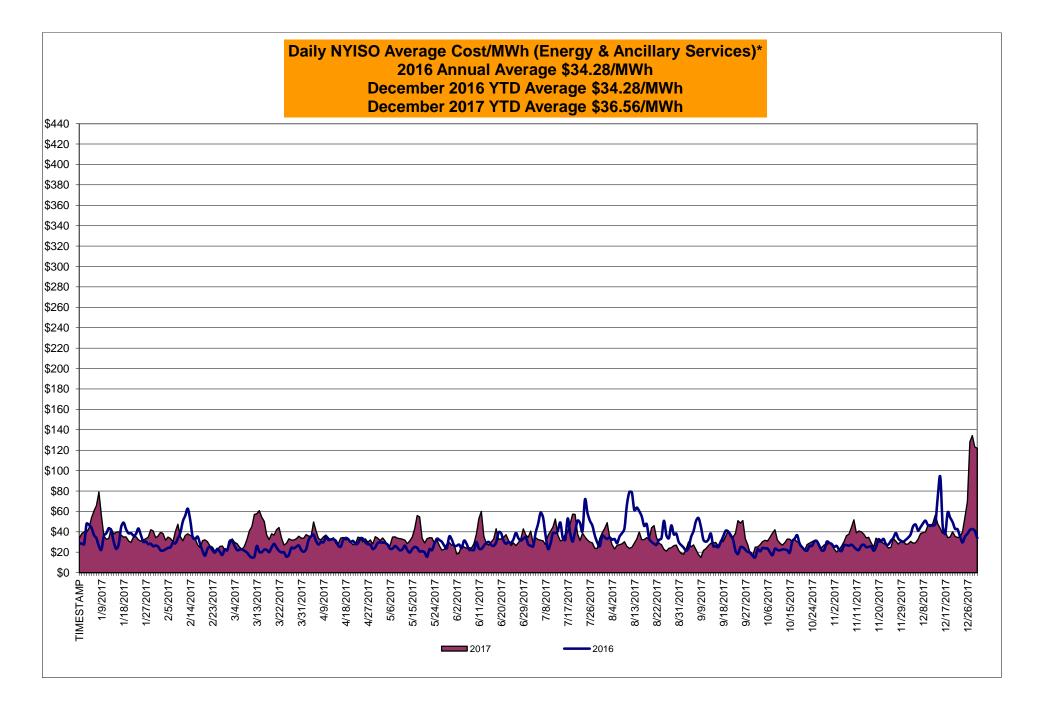






Market Performance Highlights December 2017

- LBMP for December is \$52.63/MWh; higher than \$30.60/MWh in November 2017 and higher than \$43.90/MWh in December 2016.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to November.
- December 2017 average year-to-date monthly cost of \$36.56/MWh is a 7% increase from \$34.28/MWh in December 2016.
- Average daily sendout is 444 GWh/day in December; higher than 403 GWh/day in November 2017 and 433 GWh/day in December 2016.
- Natural gas and distillate prices were higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$7.59/MMBtu, up from \$2.92/MMBtu in November.
 - Natural gas prices for the month peaked at \$31.16/MMBtu on December 29, 2017
 - Natural gas prices are up 73.0% year-over-year.
 - Jet Kerosene Gulf Coast was \$13.47/MMBtu, up from \$13.04/MMBtu in November.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$13.91/MMBtu, up from \$13.70/MMBtu in November.
 - Distillate prices are up 20.1% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.68)/MWh; lower than (\$0.40)/MWh in November.
 - Local Reliability Share is \$0.09/MWh, lower than \$0.20/MWh in November.
 - Statewide Share is (\$0.78)/MWh, lower than (\$0.60)/MWh in November.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than November.



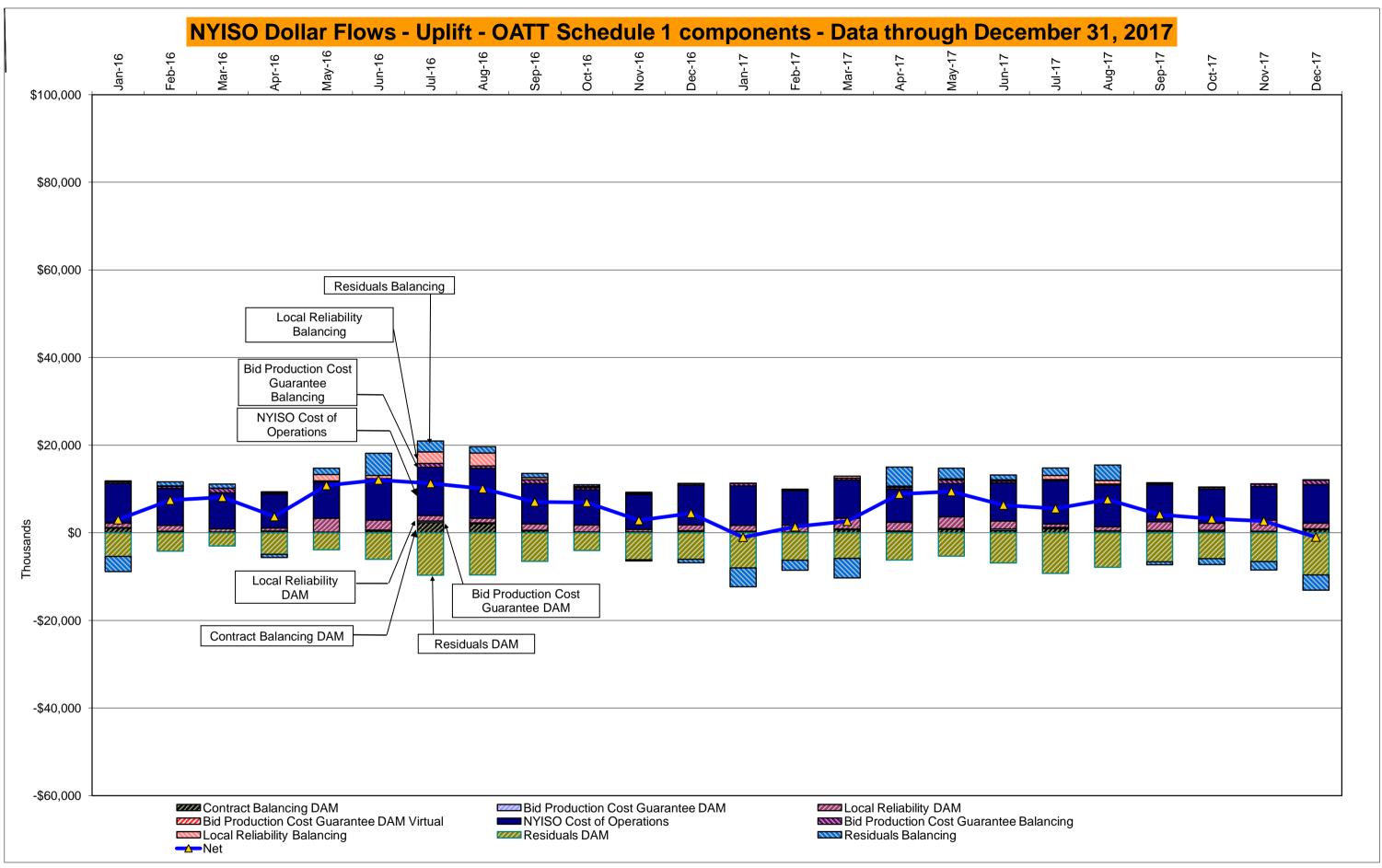
* Excludes ICAP payments.

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

2017	January	February	March	<u>April</u>	May	June	<u>July</u>	August	September	October	November	December
LBMP	40.07	30.95	34.97	31.06	31.74	31.76	35.84	30.57	29.57	28.35	30.60	52.63
NTAC	0.66	1.11	0.86	1.05	0.79	0.62	0.87	0.59	0.62	0.50	0.75	0.81
Reserve	0.70	0.67	0.74	0.70	0.61	0.55	0.48	0.44	0.47	0.59	0.55	0.71
Regulation	0.14	0.12	0.13	0.17	0.16	0.13	0.10	0.10	0.11	0.13	0.20	0.15
NYISO Cost of Operations	0.65	0.65	0.65	0.65	0.62	0.63	0.63	0.63	0.63	0.62	0.61	0.60
FERC Fee Recovery	0.09	0.10	0.10	0.12	0.10	0.09	0.07	0.08	0.09	0.10	0.10	0.08
Uplift	(0.73)	(0.54)	(0.46)	0.12	0.10	(0.37)	(0.43)	(0.19)	(0.34)	(0.36)	(0.40)	(0.68)
Uplift: Local Reliability Share	0.10	0.13	0.21	0.20	0.24	0.15	0.11	0.12	0.16	0.14	0.20	0.09
Uplift: Statewide Share	(0.83)	(0.67)	(0.67)	(0.08)	(0.13)	(0.52)	(0.54)	(0.31)	(0.50)	(0.50)	(0.60)	(0.78)
Voltage Support and Black Start	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37
Avg Monthly Cost	41.96	33.44	37.38	34.26	34.52	33.80	37.94	32.60	31.54	30.31	32.79	54.67
Avg montiny cost	41.00	00.44	07.00	04.20	04.02	00.00	07.04	02.00	01.04	00.01	02.10	04.07
Avg YTD Cost	41.96	38.02	37.81	37.05	36.54	36.01	36.35	35.80	35.34	34.89	34.72	36.56
TSA \$ per NYC MWh	0.00	0.00	0.00	0.08	0.12	0.56	0.42	0.23	0.00	0.00	0.00	0.00
2016	January	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	lubz	<u>August</u>	<u>September</u>	<u>October</u>	November	December
LBMP	34.29	28.71	20.66	27.96	23.31	27.35	<u>July</u> 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	0.59	0.78	0.02	0.87	0.71	0.59	0.78	0.68	0.69	0.00	0.79	0.63
Regulation	0.12	0.73	0.12	0.07	0.71	0.39	0.07	0.00	0.09	0.17	0.00	0.03
NYISO Cost of Operations	0.64	0.65	0.12	0.12	0.65	0.66	0.65	0.65	0.64	0.13	0.13	0.64
FERC Fee Recovery	0.09	0.00	0.00	0.10	0.09	0.00	0.03	0.06	0.04	0.10	0.10	0.08
Uplift	(0.43)	(0.07)	(0.03)	(0.34)	0.00	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	0.20	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 Montiny Cost	50.42	51.57	23.23	50.04	20.52	50.23	42.40	44.75	55.10	20.12	20.01	40.42
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>	May	<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	0.00	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 monthly oust	00.31	110.21	00.00	00.41	00.07	00.13	00.04	00.14	00.00	02.10	21.07	20.71
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: 1/8/2018 2:34 PM

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.

NYISO Markets Transactions

<u>2017</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<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	13,252,368	13,042,826	14,829,403
DAM LSE Internal LBMP Energy Sales	57%	57%	55%	54%	58%	60%	62%	61%	57%	55%	53%	55%
DAM External TC LBMP Energy Sales	2%	2%	1%	1%	1%	1%	1%	1%	1%	2%	3%	5%
DAM Bilateral - Internal Bilaterals	32%	32%	34%	35%	33%	31%	29%	29%	32%	34%	34%	32%
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	6%	4%	5%	4%	5%	5%	5%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2%	2%	3%	3%	4%	2%	3%	2%
Balancing Energy Market MWh	-256,448	-407,284	-509,053	-466,426	-666,048	-564,312	-747,473	-853,898	-633,990	-510,721	-410,072	-254,003
Balancing Energy LSE Internal LBMP Energy Sales	-157%	-132%	-148%	-115%	-120%	-114%	-100%	-87%	-76%	-102%	-108%	-99%
Balancing Energy External TC LBMP Energy Sales	64%	39%	44%	22%	28%	23%	18%	13%	12%	26%	45%	25%
Balancing Energy Bilateral - Internal Bilaterals	15%	8%	12%	5%	1%	4%	3%	2%	3%	5%	5%	-1%
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	10%	7%	5%	4%	3%	3%	1%	1%	1%	4%	7%	9%
Balancing Energy Bilateral - Wheel Through Bilaterals	-32%	-26%	-13%	-15%	-12%	-16%	-22%	-29%	-40%	-33%	-49%	-34%
Transactions Summary												
LBMP	58%	57%	55%	54%	58%	60%	62%	61%	58%	56%	56%	60%
Internal Bilaterals	33%	34%	36%	37%	34%	32%	30%	31%	33%	36%	36%	32%
Import Bilaterals	5%	5%	5%	6%	4%	5%	5%	5%	5%	5%	5%	5%
Export Bilaterals	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Wheels Through	2%	2%	2%	2%	2%	1%	2%	2%	2%	1%	1%	1%
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%	104.0%	103.2%	101.7%
Balancing Energy +	-1.8%	-3.3%	-3.8%	-4.0%	-5.4%	-4.1%	-4.7%	-5.7%	-4.7%	-4.0%	-3.2%	-1.7%
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	12,741,647	12,632,754	14,575,400
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437	398	403	444
						_		_	_			_
<u>2016</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	June	<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%			40/					
DAM Bilateral - Wheel Through Bilaterals	2%				2%	2%	1%	1%	1%	2%	2%	2%
	2 70	2%	2%	2 % 2%	2% 2%	2% 2%	1% 2%	1% 2%	1% 2%		2% 3%	2% 2%
Balancing Energy Market MWh	-522,919	<u>2%</u> -580,900	<u>2%</u> -741,701							2%		
Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales				2%	2%	2%	2%	2%	2%	2% 2%	3%	2%
	-522,919	-580,900	-741,701	<u>2%</u> -303,313	<u>2%</u> -180,848	<u>2%</u> -143,015	<u>2%</u> -86,025	<u>2%</u> 224,316	<u>2%</u> -250,802	2% 2% -477,109	<u>3%</u> -394,575	<u>2%</u> -127,836
Balancing Energy LSE Internal LBMP Energy Sales	-522,919 -125%	-580,900 -114%	-741,701 -118%	<u>2%</u> -303,313 -76%	2% -180,848 -147%	2% -143,015 -203%	2% -86,025 -347%	2% 224,316 42%	2% -250,802 -139%	2% <u>2%</u> -477,109 -111%	<u>3%</u> -394,575 -102%	<u>2%</u> -127,836 -269%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales	-522,919 -125% 12%	-580,900 -114% 13%	-741,701 -118% 19%	2% -303,313 -76% -13%	2% -180,848 -147% 55%	2% -143,015 -203% 77%	2% -86,025 -347% 204%	2% 224,316 42% 56%	2% -250,802 -139% 49%	2% 2% -477,109 -111% 21%	3% -394,575 -102% 28%	<u>2%</u> -127,836 -269% 138%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	-522,919 -125% 12% 19%	-580,900 -114% 13% 9%	-741,701 -118% 19% 4%	2% -303,313 -76% -13% 8%	2% -180,848 -147% 55% 27%	2% -143,015 -203% 77% 47%	2% -86,025 -347% 204% 62%	2% 224,316 42% 56% 28%	2% -250,802 -139% 49% 18%	2% 2% -477,109 -111% 21% 6%	3% -394,575 -102% 28% 9%	2% -127,836 -269% 138% 65%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	-522,919 -125% 12% 19% 0%	-580,900 -114% 13% 9% 0%	-741,701 -118% 19% 4% 0%	2% -303,313 -76% -13% 8% 0%	2% -180,848 -147% 55% 27% 0%	2% -143,015 -203% 77% 47% 0%	2% -86,025 -347% 204% 62% 0%	2% 224,316 42% 56% 28% 0%	2% -250,802 -139% 49% 18% 0%	2% 2% -477,109 -111% 21% 6% 0%	3% -394,575 -102% 28% 9% 0%	2% -127,836 -269% 138% 65% 4%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	-522,919 -125% 12% 19% 0% 6%	-580,900 -114% 13% 9% 0% 5%	-741,701 -118% 19% 4% 0% 3%	2% -303,313 -76% -13% 8% 0% 5%	2% -180,848 -147% 55% 27% 0% 7%	2% -143,015 -203% 77% 47% 0% 10%	2% -86,025 -347% 204% 62% 0% 15%	2% 224,316 42% 56% 28% 0% 5%	2% -250,802 -139% 49% 18% 0% 5%	2% 2% -477,109 -111% 21% 6% 0% 4%	3% -394,575 -102% 28% 9% 0% 6%	2% -127,836 -269% 138% 65% 4% 27%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals	-522,919 -125% 12% 19% 0% 6%	-580,900 -114% 13% 9% 0% 5%	-741,701 -118% 19% 4% 0% 3%	2% -303,313 -76% -13% 8% 0% 5%	2% -180,848 -147% 55% 27% 0% 7%	2% -143,015 -203% 77% 47% 0% 10%	2% -86,025 -347% 204% 62% 0% 15%	2% 224,316 42% 56% 28% 0% 5%	2% -250,802 -139% 49% 18% 0% 5%	2% 2% -477,109 -111% 21% 6% 0% 4%	3% -394,575 -102% 28% 9% 0% 6%	2% -127,836 -269% 138% 65% 4% 27%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary	-522,919 -125% 12% 19% 0% 6% -12%	-580,900 -114% 13% 9% 0% 5% -12%	-741,701 -118% 19% 4% 0% 3% -8%	2% -303,313 -76% -13% 8% 0% 5% -24%	2% -180,848 -147% 55% 27% 0% 7% -42%	2% -143,015 -203% 77% 47% 0% 10% -32%	2% -86,025 -347% 204% 62% 0% 15% -34%	2% 224,316 42% 56% 28% 0% 5% -31%	2% -250,802 -139% 49% 18% 0% 5% -32%	2% 2% -477,109 -111% 21% 6% 0% 4% -21%	3% -394,575 -102% 28% 9% 0% 6% -40%	2% -127,836 -269% 138% 65% 4% 27% -66%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Irransactions Summary LBMP	-522,919 -125% 12% 19% 0% 6% -12%	-580,900 -114% 13% 9% 0% 5% -12%	-741,701 -118% 19% 4% 0% 3% -8%	2% -303,313 -76% -13% 8% 0% 5% -24%	2% -180,848 -147% 55% 27% 0% 7% -42%	2% -143,015 -203% 77% 47% 0% 10% -32%	2% -86,025 -347% 204% 62% 0% 15% -34%	2% 224,316 42% 56% 28% 0% 5% -31%	2% -250,802 -139% 49% 18% 0% 5% -32%	2% 2% -477,109 -111% 21% 6% 0% 4% -21%	3% -394,575 -102% 28% 9% 0% 6% -40%	2% -127,836 -269% 138% 65% 4% 27% -66%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals	-522,919 -125% 12% 19% 0% 6% -12% 56% 36%	-580,900 -114% 13% 9% 0% 5% -12% 56% 36%	-741,701 -118% 19% 4% 0% 3% -8% 54% 37%	2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29%	2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32%	2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31%	2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28%	2% 224,316 42% 56% 28% 0% 5% -31% 66% 27%	2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30%	2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35%	3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34%	2% -127,836 -269% 138% 65% 4% 27% -66% 60% 32%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals LBMP Internal Bilaterals Import Bilaterals	-522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5%	-580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5%	-741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6%	2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6%	2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5%	2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5%	2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4%	2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4%	2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5%	2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5%	3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6%	2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals	-522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 2%	-580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2%	-741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2%	2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6% 29% 6% 2%	2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2%	2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2%	2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1%	2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4% 1%	2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1%	2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2%	3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2%	2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5% 2%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals BMP Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through	-522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 2% 1%	-580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2% 1%	-741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2% 1%	2% -303,313 -76% -13% 8% 0% 5% -24% 6% 29% 6% 29% 6% 2% 1%	2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2% 2% 2%	2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2% 2%	2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1% 1%	2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4% 1% 1%	2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2%	2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1%	3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2% 2%	2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5% 2% 2%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals BMP Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market	-522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 2% 1%	-580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2% 1% 104.5%	-741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2% 1% 105.9%	2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6% 29% 6% 2% 1%	2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2%	2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2% 2% 2%	2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1% 1% 1%	2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4% 1% 1% 1%	2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2% 101.8%	2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1% 103.8%	3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2% 2%	2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5% 2% 2% 2% 2%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals Import Bilaterals Export Bilaterals Export Bilaterals Wheels Through Day Ahead Market Balancing Energy +	-522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 2% 1% 103.7% -3.7%	-580,900 -114% 13% 9% 0% 5% 5% -12% 56% 36% 5% 2% 1% 104.5% -4.5%	-741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2% 1% 105.9% -5.9%	2% -303,313 -76% -13% 8% 0% 5% -24% 6% 29% 6% 29% 6% 2% 1% 102.5% -2.5%	2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2% 2% 2% 2% 2% 101.4% -1.4%	2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2% 2% 2% 2% 101.0% -1.0%	2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1% 1% 1% 1% 1%	2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4% 1% 1% 1% 1% 1% 1%	2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2% 101.8% -1.8%	2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1% 103.8% -3.8%	3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2% 2% 2% 2% 103.2% -3.2%	2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5% 2% 2% 2% 100.9% -0.9%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals BMP Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market	-522,919 -125% 12% 19% 0% 6% -12% 56% 36% 5% 2% 1%	-580,900 -114% 13% 9% 0% 5% -12% 56% 36% 5% 2% 1% 104.5%	-741,701 -118% 19% 4% 0% 3% -8% 54% 37% 6% 2% 1% 105.9%	2% -303,313 -76% -13% 8% 0% 5% -24% 62% 29% 6% 29% 6% 2% 1%	2% -180,848 -147% 55% 27% 0% 7% -42% 59% 32% 5% 2% 2% 2%	2% -143,015 -203% 77% 47% 0% 10% -32% 61% 31% 5% 2% 2% 2% 2%	2% -86,025 -347% 204% 62% 0% 15% -34% 65% 28% 4% 1% 1% 1%	2% 224,316 42% 56% 28% 0% 5% -31% 66% 27% 4% 1% 1% 1%	2% -250,802 -139% 49% 18% 0% 5% -32% 62% 30% 5% 1% 2% 101.8%	2% 2% -477,109 -111% 21% 6% 0% 4% -21% 57% 35% 5% 2% 1% 103.8%	3% -394,575 -102% 28% 9% 0% 6% -40% 57% 34% 6% 2% 2% 2%	2% -127,836 -269% 138% 65% 4% 27% -66% 32% 5% 2% 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: 1/8/2018 2:35 PM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

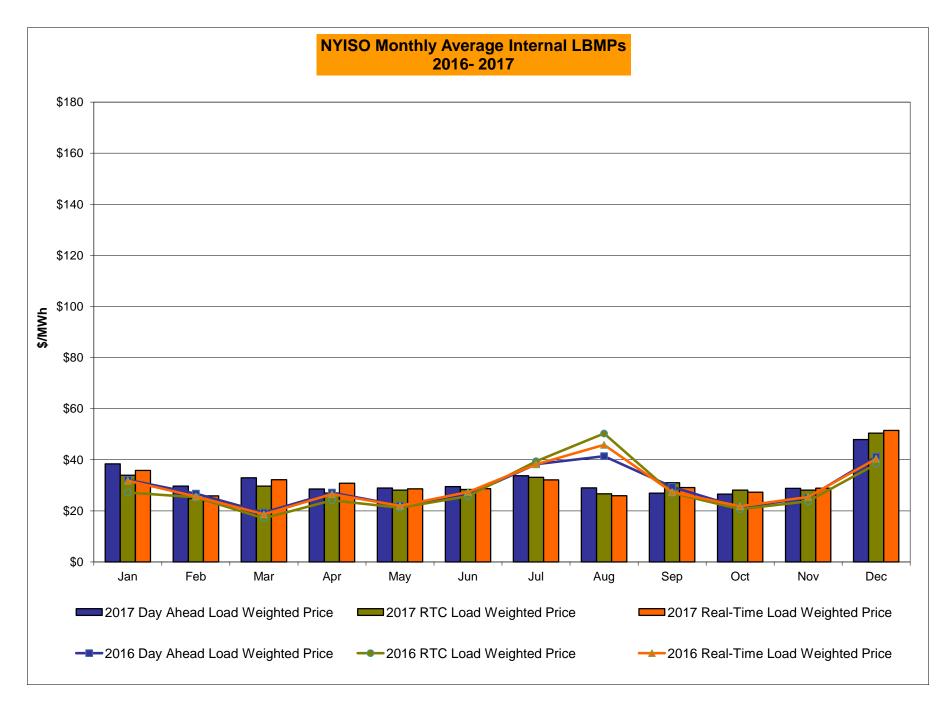
NYISO Markets 2017 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	June	July	August	<u>September</u>	<u>October</u>	November	<u> December</u>
DAY AHEAD LBMP												
Price *	\$37.22	\$28.84	\$32.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	\$25.05	\$25.49	\$27.88	\$45.46
Standard Deviation	\$13.20	\$7.97	\$11.95	\$7.66	\$9.47	\$12.37	\$13.51	\$10.60	\$12.09	\$8.53	\$9.87	\$31.56
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95	\$26.57	\$28.83	\$47.90
RTC LBMP												
Price *	\$32.87	\$24.09	\$28.86	\$26.19	\$26.19	\$26.40	\$30.84	\$25.26	\$27.97	\$26.91	\$27.35	\$47.75
Standard Deviation	\$14.57	\$9.52	\$13.70	\$10.36	\$21.29	\$14.76	\$18.14	\$13.08	\$27.14	\$13.40	\$10.54	\$37.33
Load Weighted Price **	\$33.96	\$24.81	\$29.67	\$26.98	\$28.10	\$28.39	\$33.13	\$26.65	\$30.98	\$28.13	\$28.15	\$50.39
REAL TIME LBMP												
Price *	\$34.61	\$25.14	\$31.21	\$29.61	\$26.56	\$26.16	\$29.47	\$24.36	\$26.08	\$25.95	\$27.91	\$48.42
Standard Deviation	\$18.20	\$14.21	\$25.02	\$39.82	\$26.11	\$19.00	\$20.25	\$14.03	\$25.72	\$14.49	\$15.86	\$42.66
Load Weighted Price **	\$35.80	\$25.84	\$32.21	\$30.81	\$28.64	\$28.67	\$32.11	\$25.95	\$29.13	\$27.33	\$28.90	\$51.49
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437	398	403	444

NYISO Markets 2016 Energy Statistics

	<u>January</u>	February	March	April	May	June	July	August S	<u>September</u>	<u>October</u>	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.

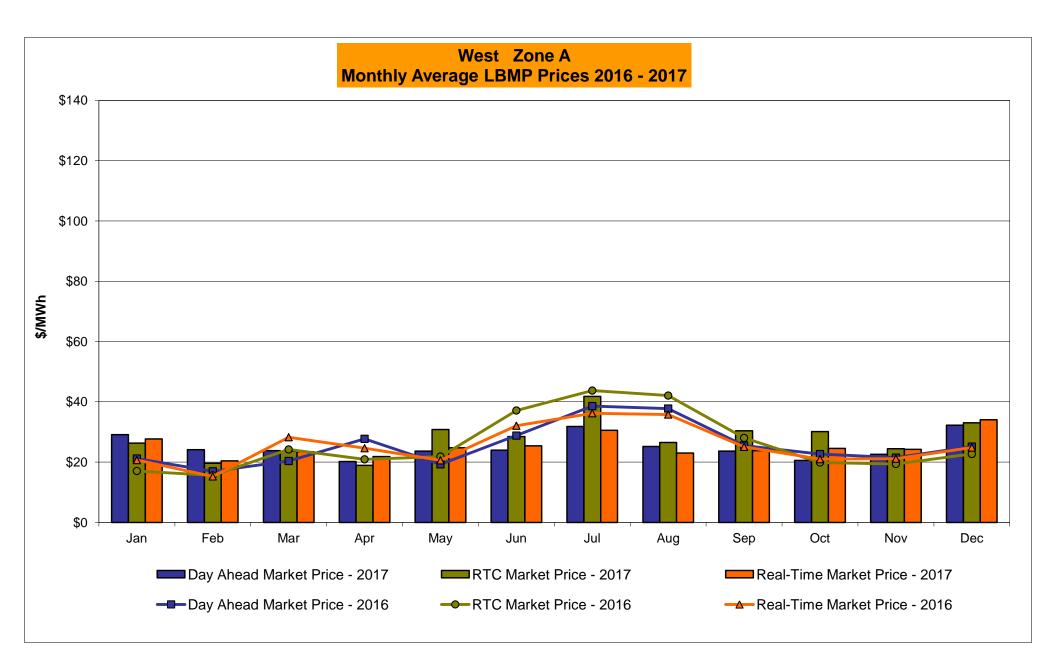


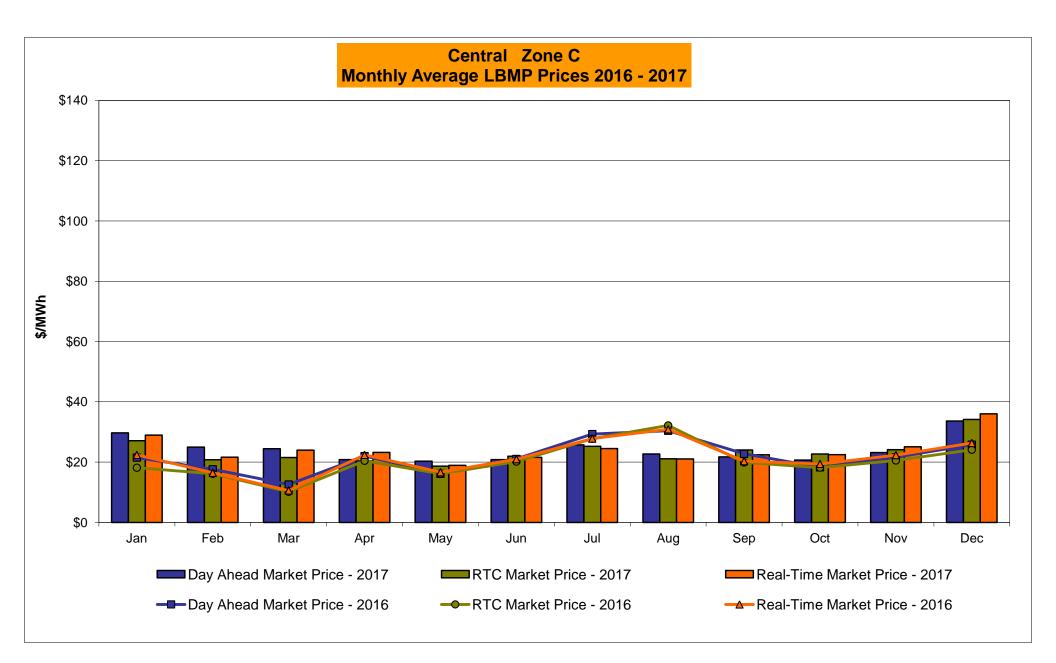
December 2017 Zonal LBMP Statistics for NYISO (\$/MWh)

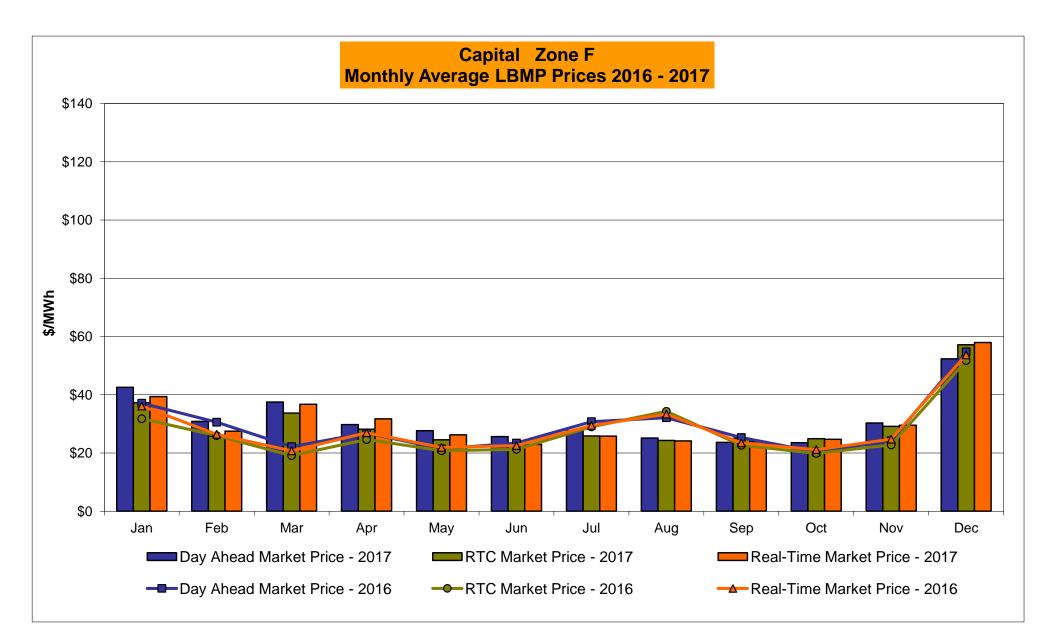
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	<u>Zone E</u>	Zone F	Zone G	<u>Zone H</u>	<u>Zone I</u>	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	32.24	32.08	30.39	33.62	34.63	52.35	48.35	48.89	48.70	49.54	62.31
Standard Deviation	22.66	23.31	24.81	24.45	25.93	40.41	35.14	35.47	35.26	36.21	38.82
RTC LBMP											
Unweighted Price *	33.07	32.04	30.82	34.16	35.87	57.16	51.57	51.94	51.63	52.02	66.24
Standard Deviation	32.16	28.37	32.02	30.00	32.87	48.27	41.24	41.54	41.23	41.40	71.92
REAL TIME LBMP											
Unweighted Price *	34.07	33.95	32.48	36.00	37.58	57.93	52.89	53.27	52.98	53.49	63.19
Standard Deviation	34.71	35.29	38.10	36.97	39.19	53.49	47.42	47.79	47.49	47.84	56.39

	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	Controllable
	<u>Zone O</u>	<u>Zone M</u>	Zone M	Zone P	<u>Zone N</u>	Line	Line	Line	Line	Line	Line
DAY AHEAD LBMP											
Unweighted Price *	31.31	29.86	29.86	39.35	60.19	59.98	59.48	53.23	49.23	49.08	30.09
Standard Deviation	22.30	24.92	24.92	26.79	38.62	35.96	35.60	34.96	36.11	35.84	24.72
RTC LBMP											
Unweighted Price *	30.93	26.56	26.55	39.74	74.13	62.15	61.69	54.78	51.45	49.84	31.71
Standard Deviation	25.92	30.42	30.42	33.01	54.84	68.49	68.23	45.71	40.88	39.86	41.21
REAL TIME LBMP											
Unweighted Price *	33.25	28.97	28.95	41.20	65.44	59.70	59.18	54.17	52.97	53.02	31.58
Standard Deviation	34.07	37.29	37.29	40.10	52.43	53.88	53.43	48.10	47.70	47.65	40.21

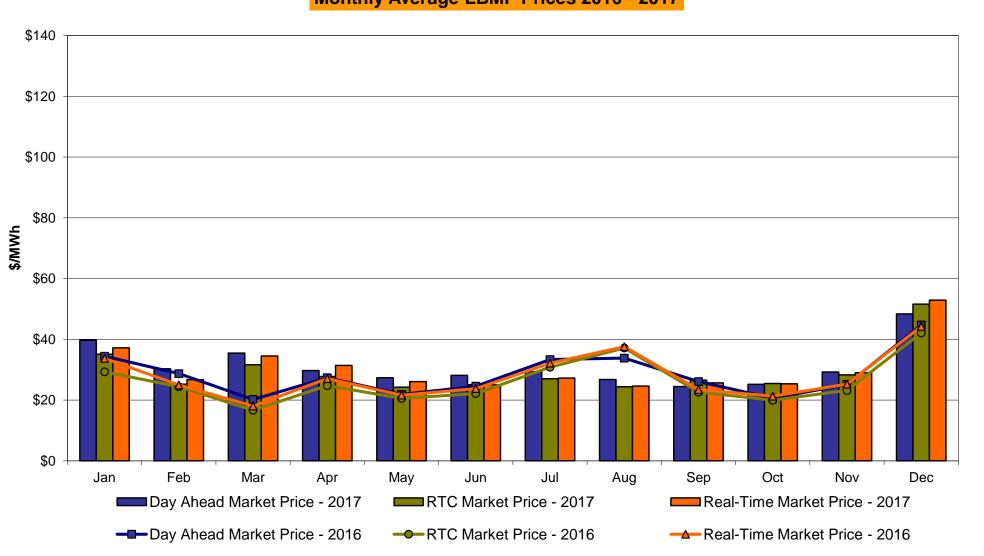
* Straight LBMP averages

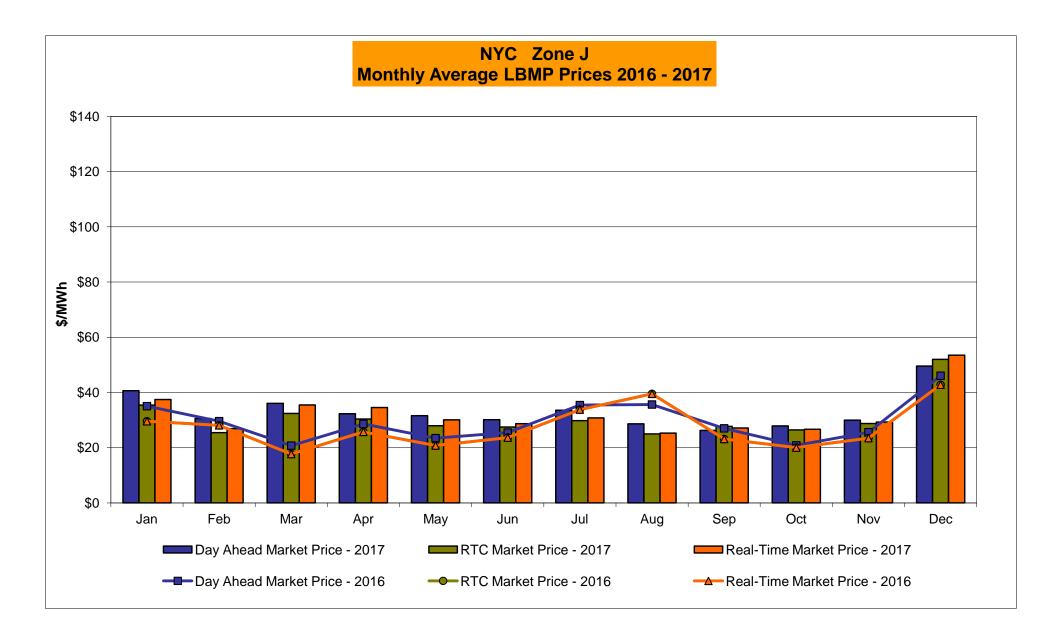


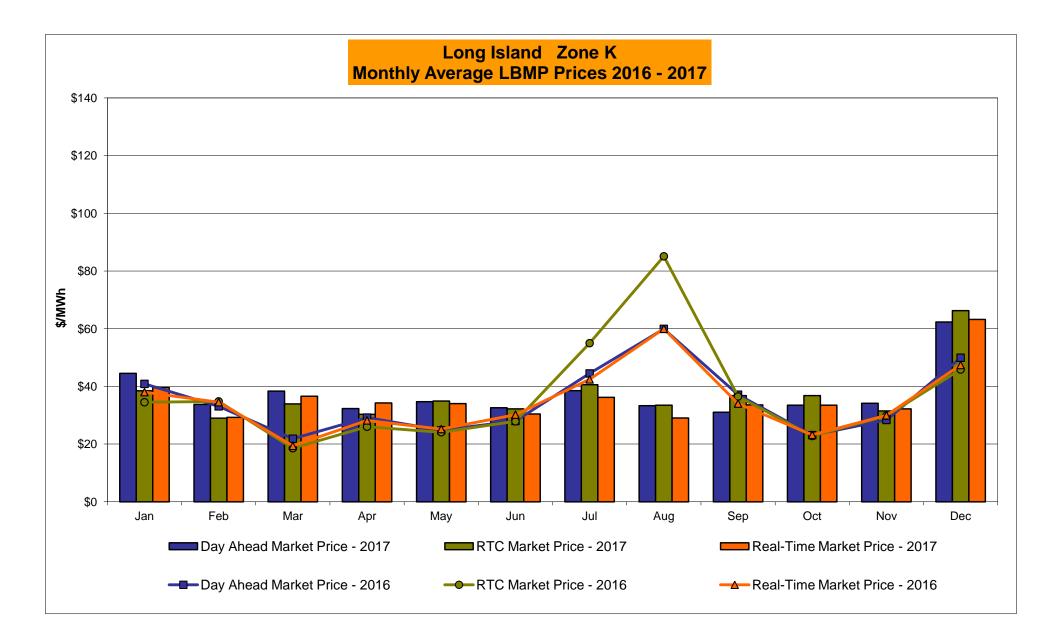


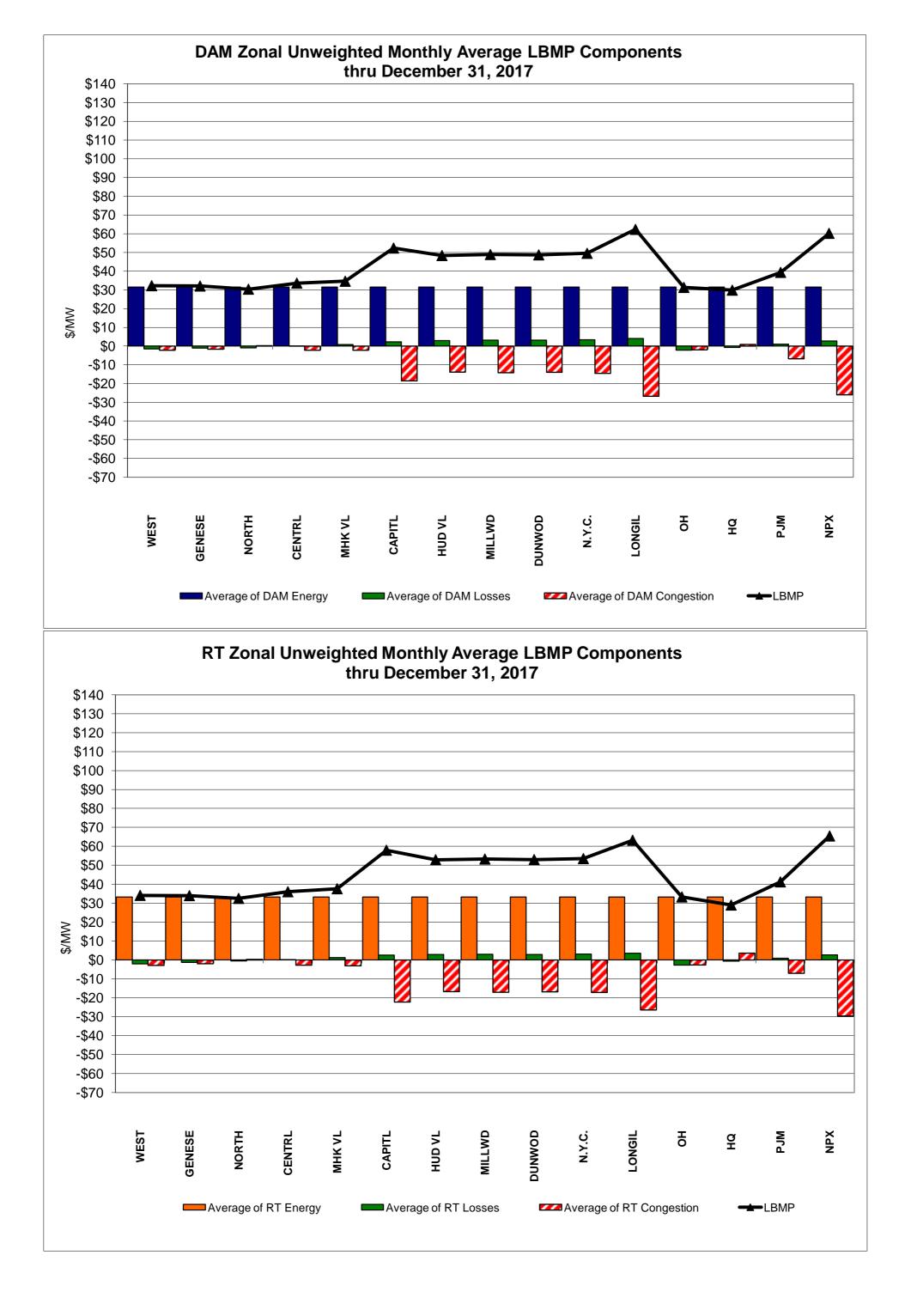


Hudson Valley Zone G Monthly Average LBMP Prices 2016 - 2017

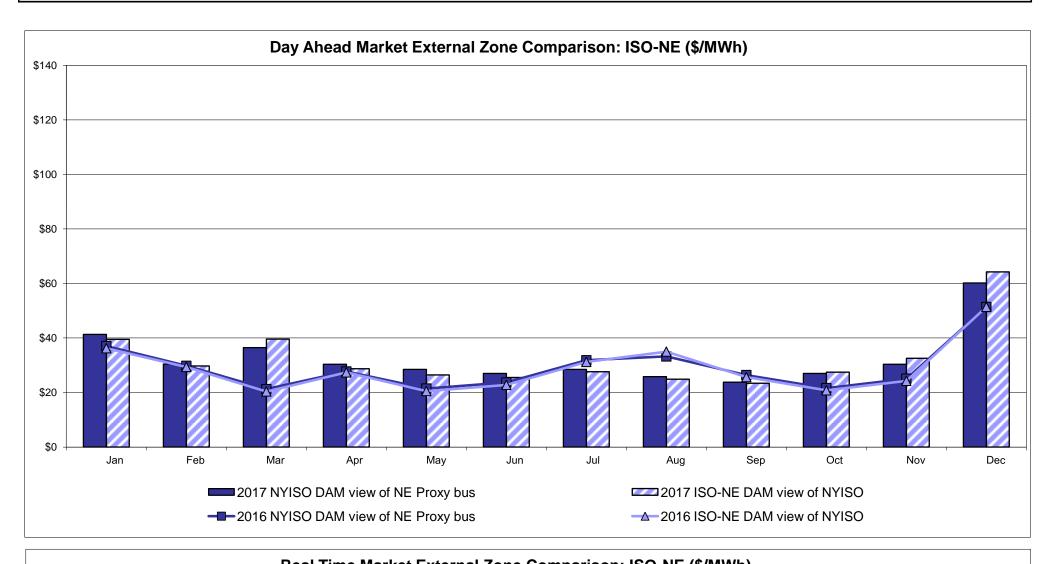




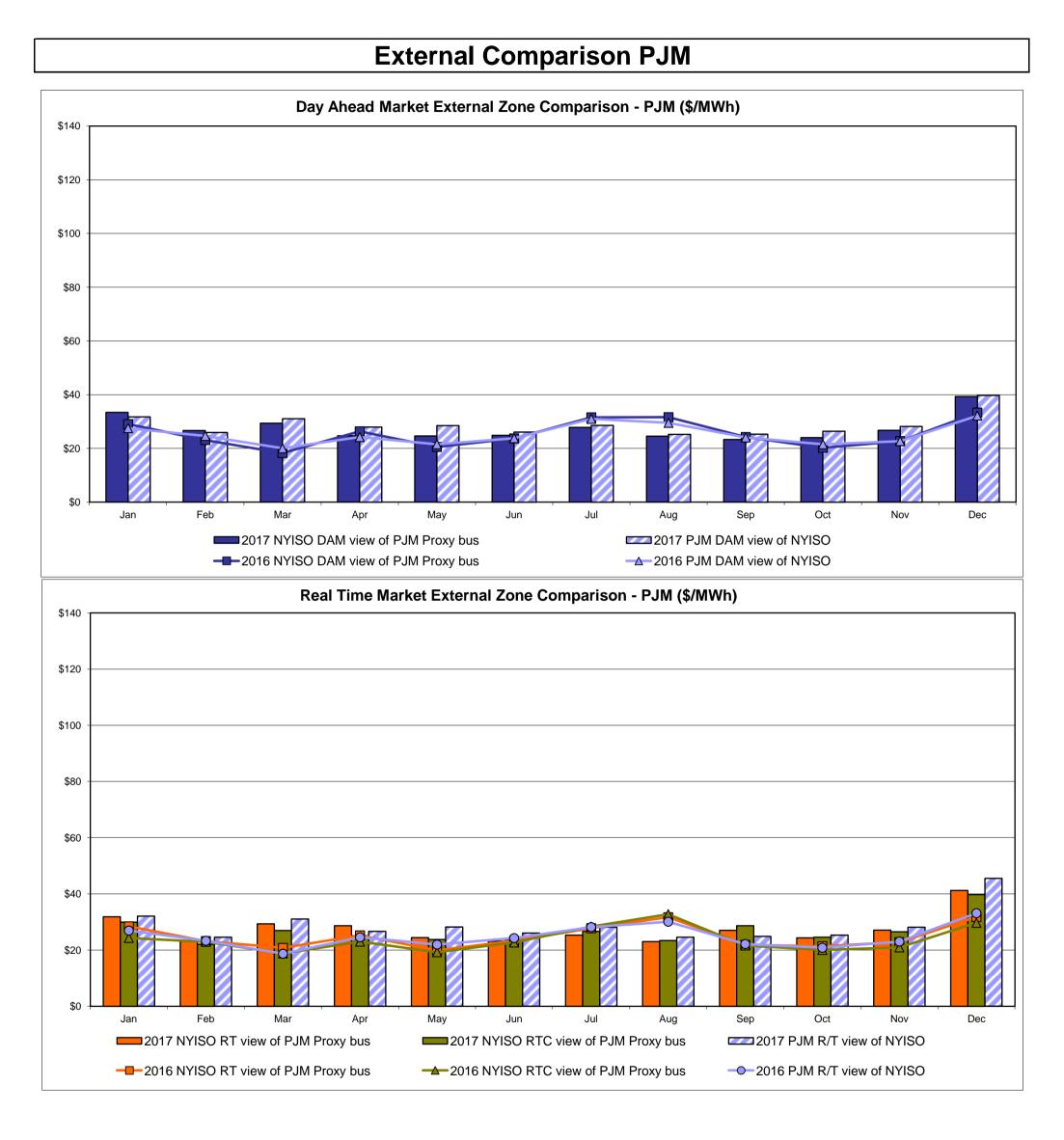




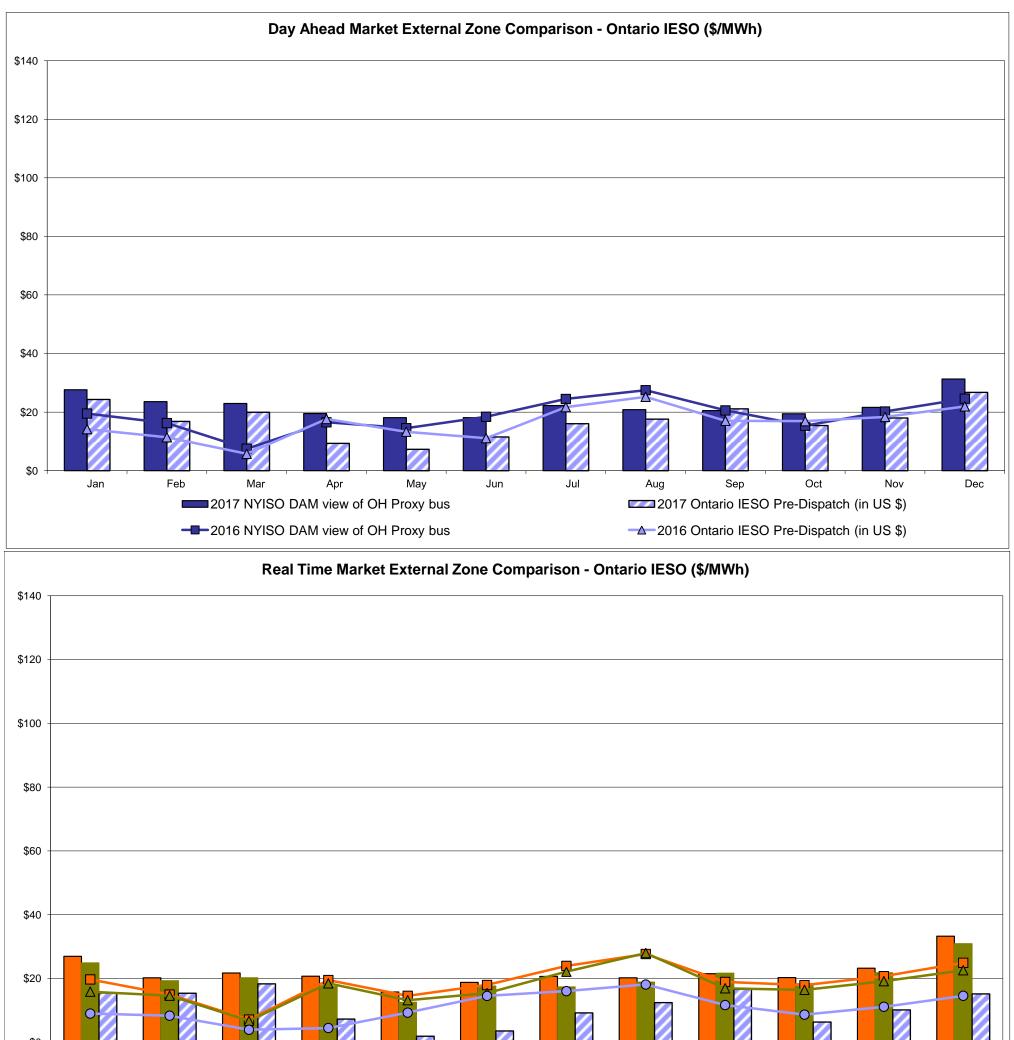
External Comparison ISO-New England



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

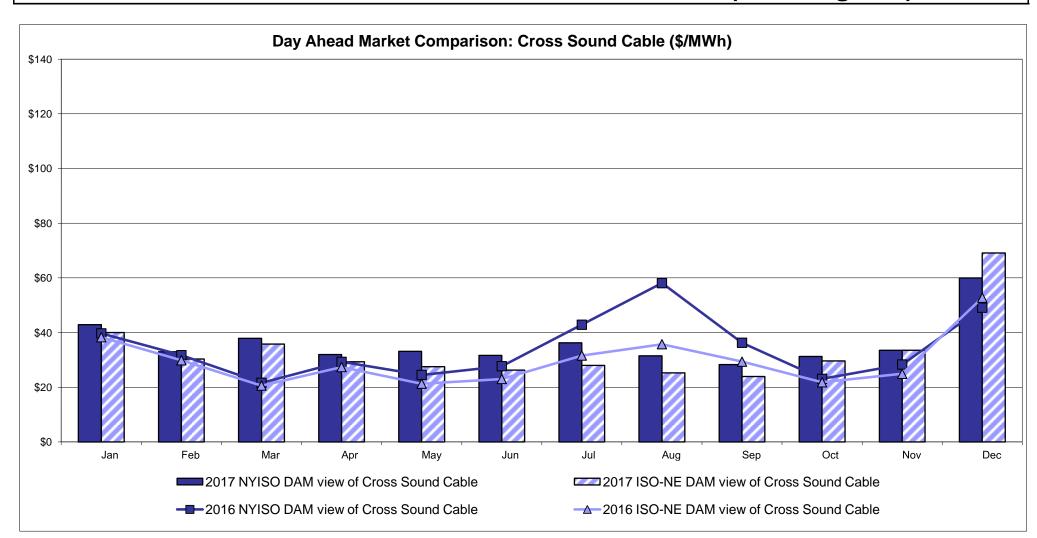


External Comparison Ontario IESO

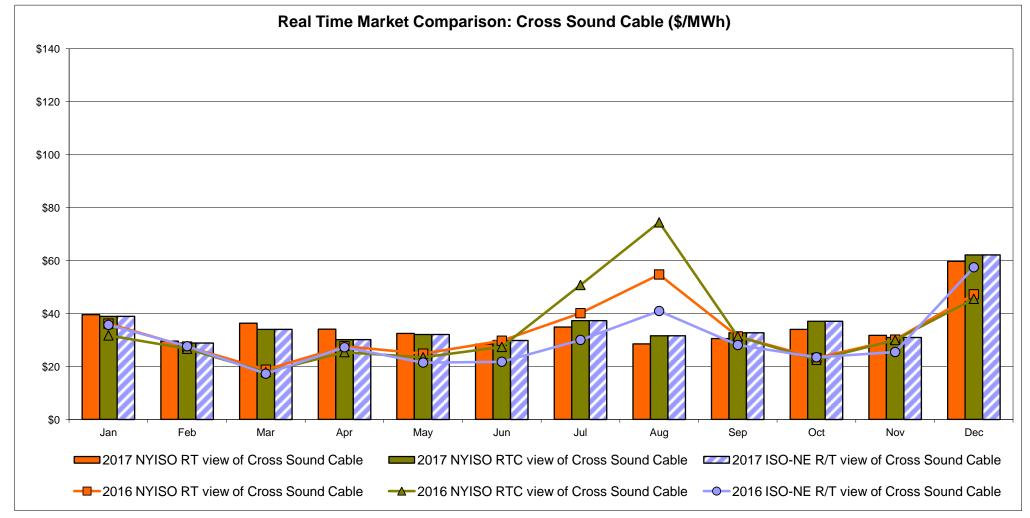




Notes: Exchange factor used for December 2017 was 0.783146683373796 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



External Controllable Line: Cross Sound Cable (New England)



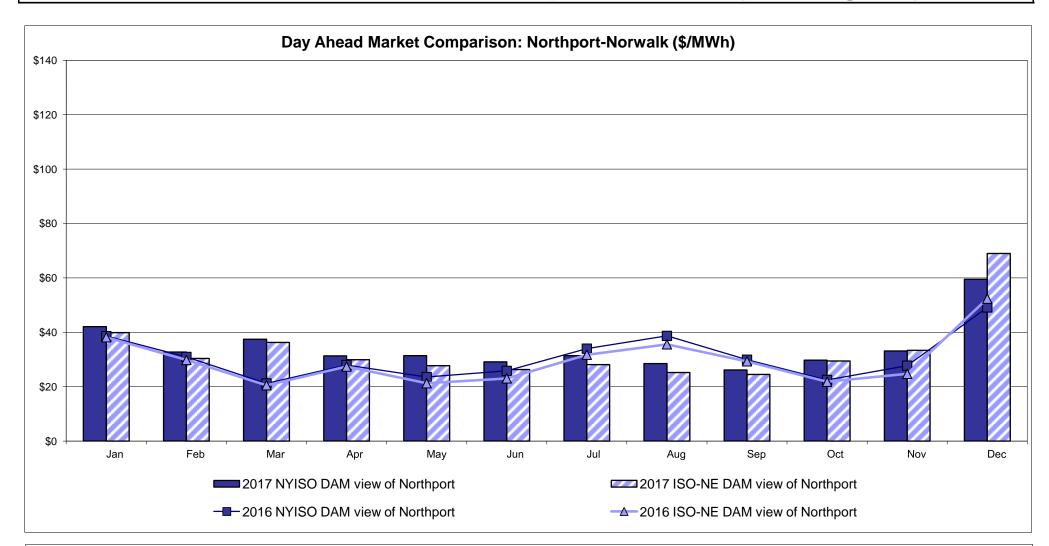
Note:

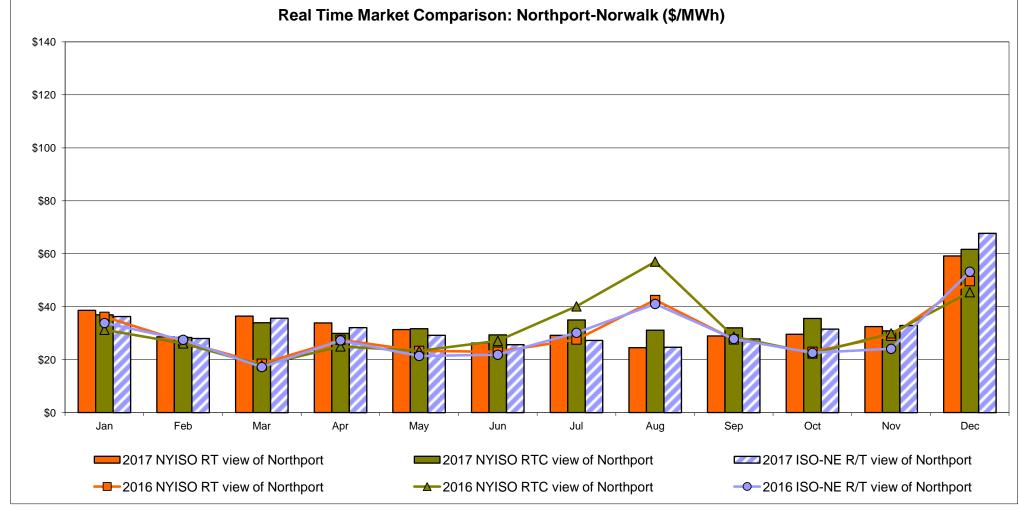
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)





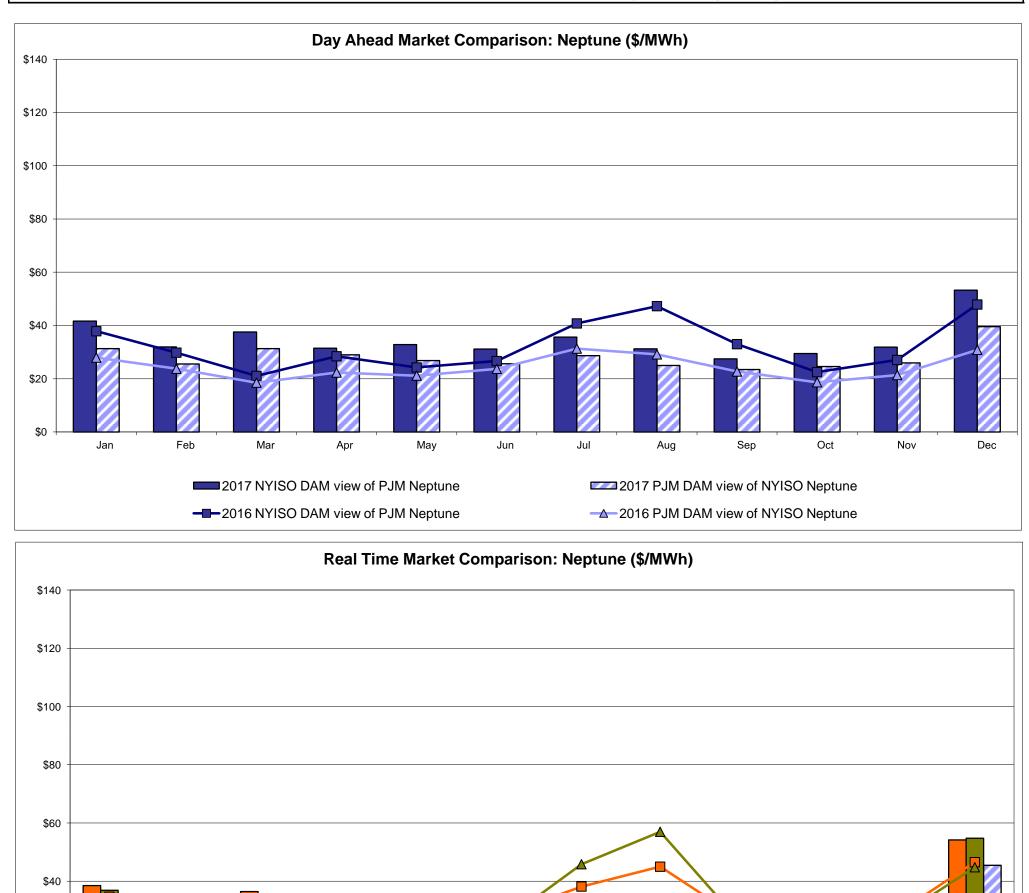
Note:

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

\$20

\$0

Jan

Jun

2017 NYISO RTC view of PJM Neptune

-2016 NYISO RTC view of PJM Neptune

Jul

Aug

Sep

Oct

2017 PJM R/T view of NYISO Neptune

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

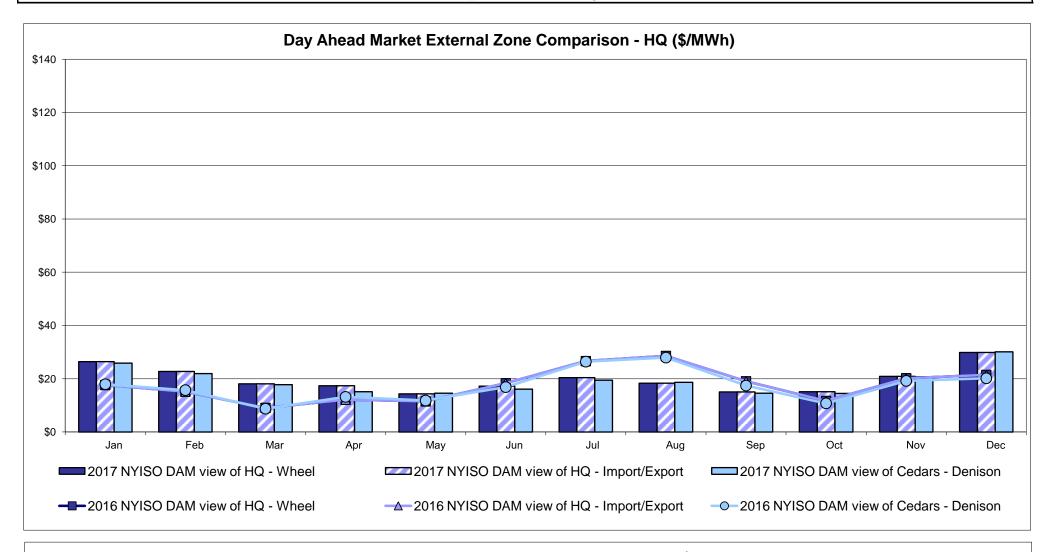
Nov

Dec

May

Apr

External Comparison Hydro-Quebec

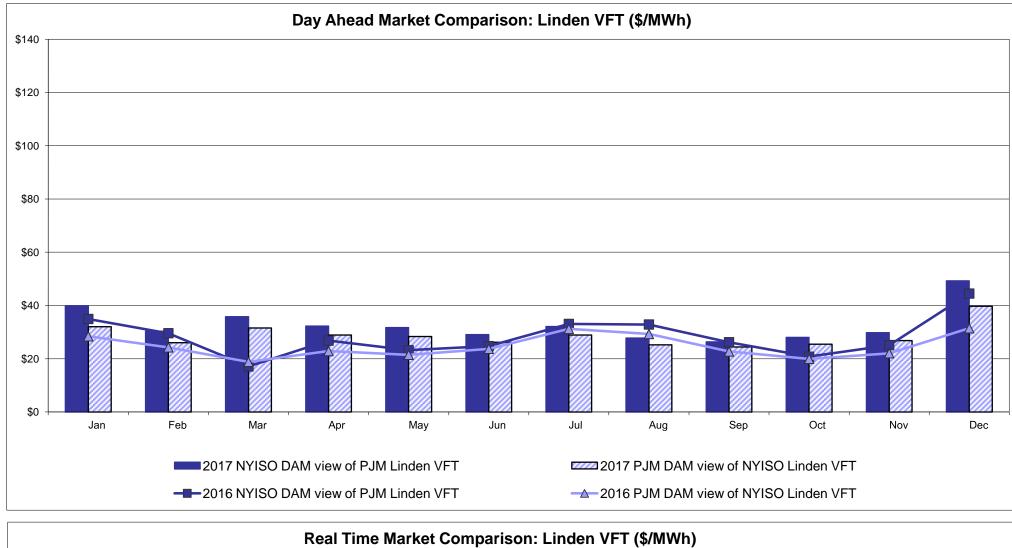


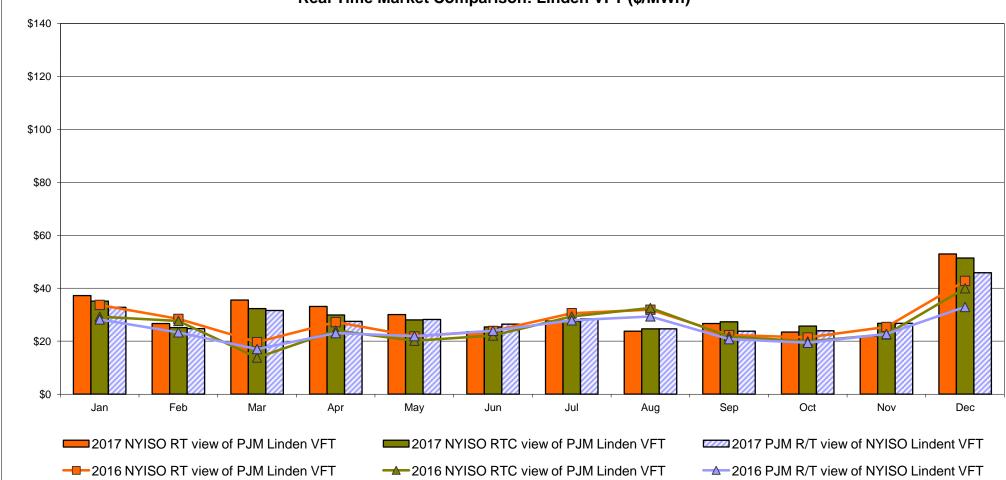
Real Time Market External Zone Comparison - HQ (\$/MWh) \$140 \$120 \$100 \$80 \$60 \$40 \$20 \bigcirc \$0 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2017 NYISO RT view of HQ - Wheel 2017 NYISO RT view of HQ - Import/Export 2017 NYISO RT view of Cedars - Denison -O-2016 NYISO RT view of Cedars - Denison - 2016 NYISO RT view of HQ - Wheel 2016 NYISO RT view of HQ - Import/Export

Note:

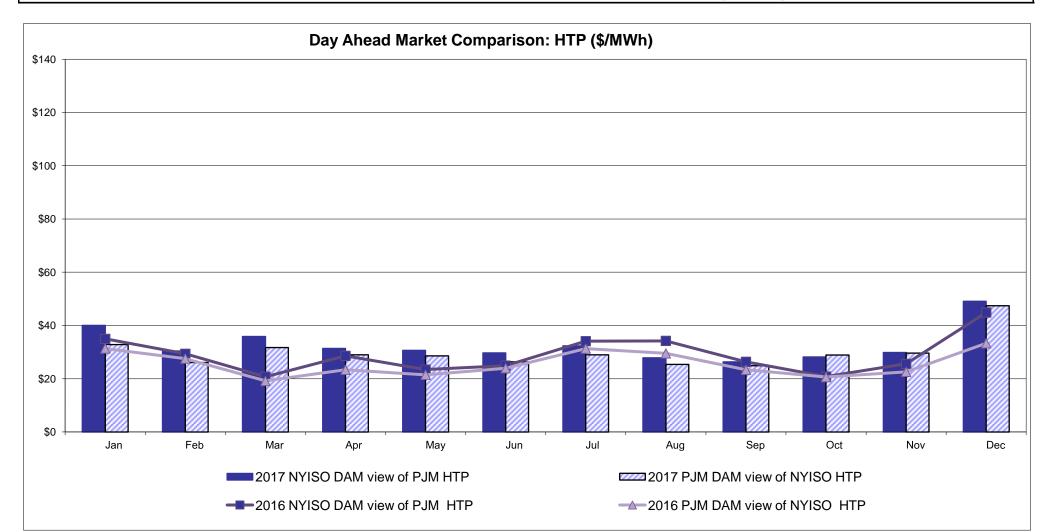
Hydro-Quebec Prices are unavailable.

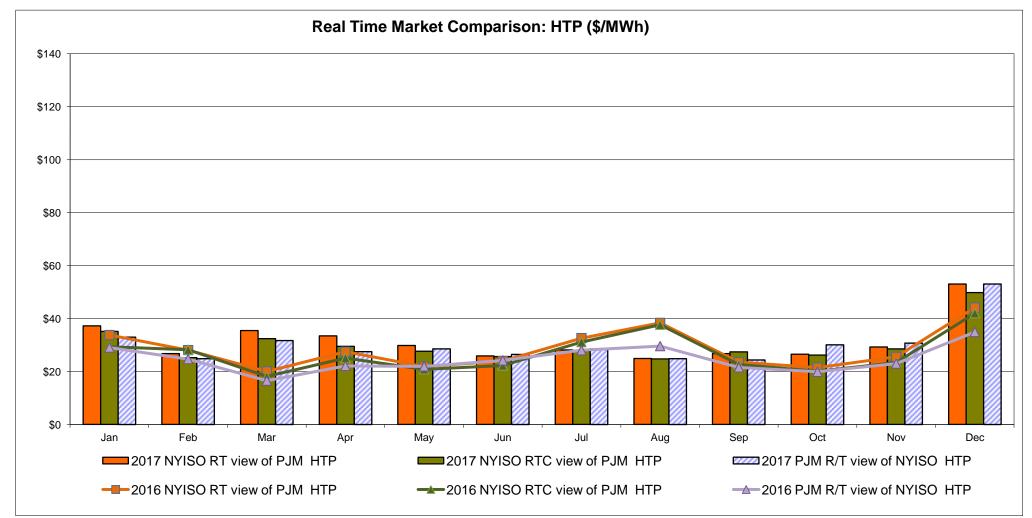
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)



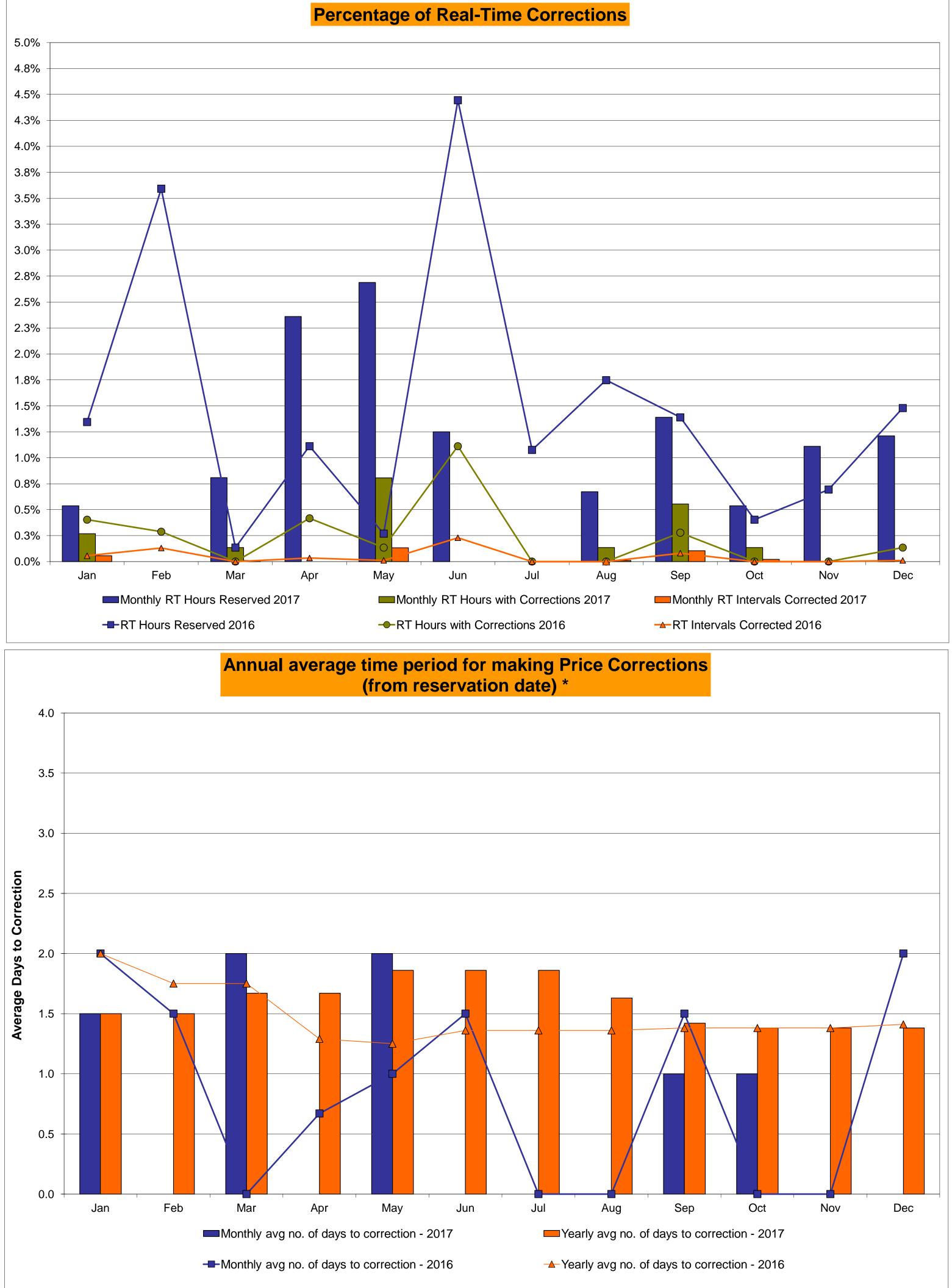


NYISO Real Time Price Correction Statistics

2017		January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	2	0	1	0	6	0	0	1	1	1	0	0
Number of hours	in the month	2 744	672	743	720	744	720	744	744	720	744	721	744
% 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%	0.13%	0.00%	0.00%
% of hours with corrections Interval Corrections	year-to-date	0.27%	0.14%	0.14%	0.10%	0.25%	0.21%	0.18%	0.17%	0.21%	0.21%	0.19%	0.17%
Number of intervals corrected	in the month	5	0	1	0	12	0	0	1	9	2	0	0
Number of intervals	in the month	8,983	8,101	9,026	8,745	9,004	8,712	8,968	8,980	8,701	9,006	8,712	9,063
% of intervals corrected	in the month	0.06%	0.00%	0.01%	0.00%	0.13%	0.00%	0.00%	0.01%	0.10%	0.02%	0.00%	0.00%
% of intervals corrected	year-to-date	0.06%	0.03%	0.02%	0.02%	0.04%	0.03%	0.03%	0.03%	0.04%	0.03%	0.03%	0.03%
Hours Reserved	j e e. 10 e e e e			0.0270	0.0270	010170	010070	0.0070	0.0070	010170	010070	010070	010070
Number of hours reserved	in the month	4	0	6	17	20	9	0	5	10	4	8	9
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	0.54%	0.00%	0.81%	2.36%	2.69%	1.25%	0.00%	0.67%	1.39%	0.54%	1.11%	1.21%
% of hours reserved	year-to-date	0.54%	0.28%	0.46%	0.94%	1.30%	1.29%	1.10%	1.05%	1.08%	1.03%	1.04%	1.05%
Days to Correction *	<u> </u>												
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	1.00	0.00	0.00
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	1.38	1.38	1.38
Days Without Corrections													
Days without corrections	in the month	29	28	30	30	27	30	31	30	26	30	30	31
Days without corrections	year-to-date	29	57	87	117	144	174	205	235	261	291	321	352
2016		January	February	March	April	May	June	July	August	September	October	November	December
2016 Hour Corrections		January	<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>	<u>November</u>	<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 0.29%	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	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	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% 0.39% 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% <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% 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% <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% 0.39% 20 8,725 0.23%	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%	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 % 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% 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% <u>0.25%</u> 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% <u>0.29%</u> 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 CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedMumber 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 correctionsMumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	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% <u>0.25%</u> 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% <u>0.29%</u> 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 corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% 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% 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% of hours reserved% 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% 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 correctedMumber of hours reservedNumber of hours reserved% of	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% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reserved% of hours reservedDays to Correction *Avg. number of days to correctionAvg. number of days to correctionDays Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date 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 2.00	2 696 0.29% 0.35% 11 8,440 0.13% 0.09% 25 696 3.59% 2.43% 1.50 1.75	0 743 0.00% 0.23% 0 8,995 0.00% 0.06% 1 743 0.13% 1.65% 0.00 1.75	3 720 0.42% 0.28% 3 8,724 0.03% 0.05% 8 720 1.11% 1.52% 0.67 1.29	1 744 0.13% 0.25% 1 8,987 0.01% 0.05% 2 744 0.27% 1.26% 1.00 1.25	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 1.36	0 744 0.00% 0.29% 0 9,048 0.00% 0.06% 13 744 1.75% 1.69% 0.00 1.36	2 720 0.28% 0.29% 7 8,713 0.08% 0.06% 10 720 1.39% 1.66% 1.50 1.38	0 744 0.00% 0.26% 0 8,960 0.00% 0.05% 3 744 0.40% 1.53% 0.00 1.38	0 721 0.00% 0.24% 0 8,724 0.00% 0.05% 5 721 0.69% 1.46% 0.00 1.38	1 744 0.13% 0.23% 1 9,034 0.01% 0.05% 11 744 1.48% 1.46% 2.00 1.41
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reserved% of hours 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% 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% <u>0.23%</u> 1 9,034 0.01% <u>0.05%</u> 11 744 1.48% <u>1.46%</u> 2.00

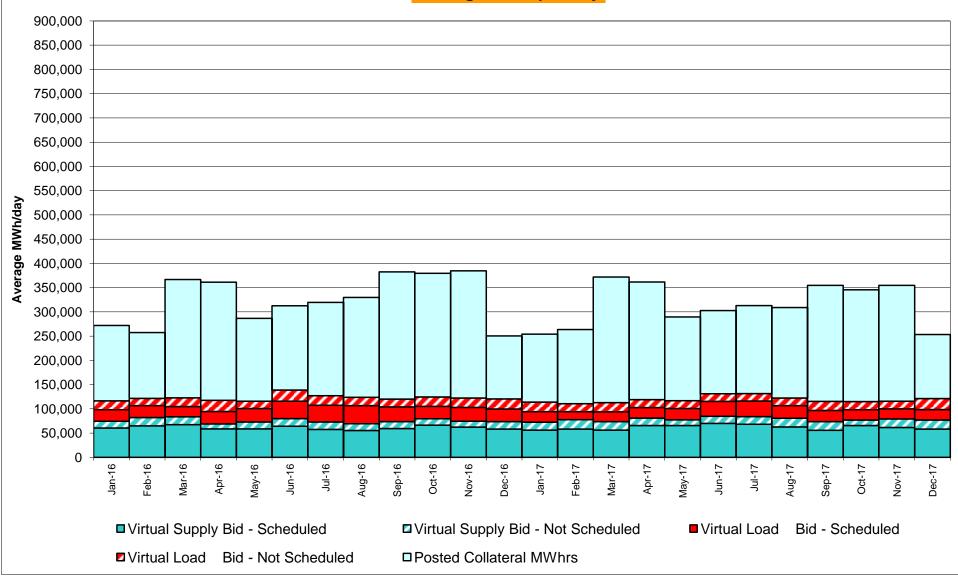
* Calendar days from reservation date.

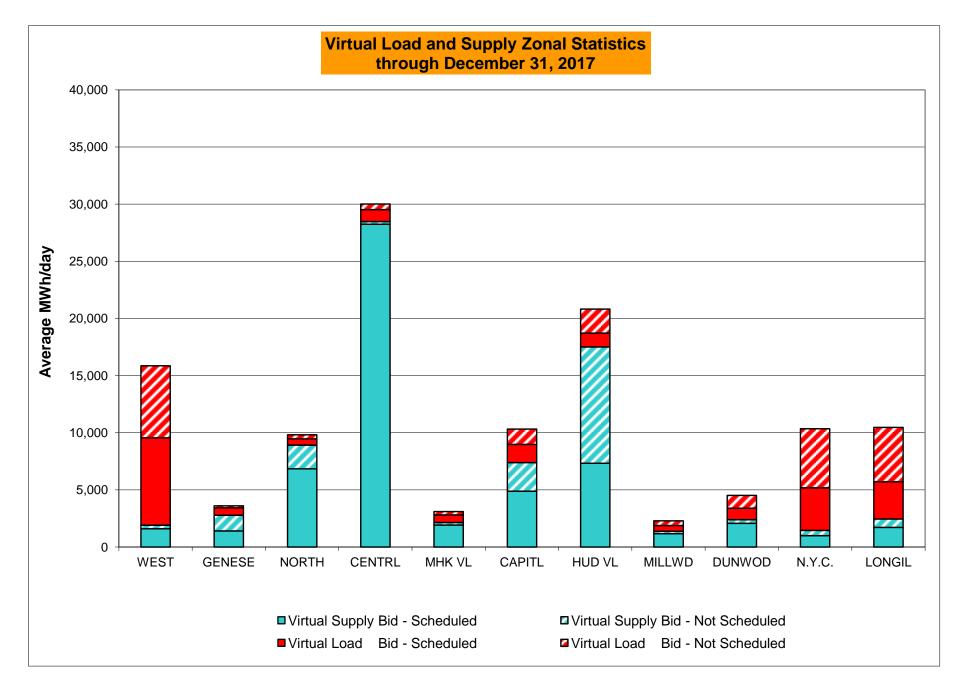
May and June 2017 Hours Reserved data has been updated for the July 2017 Monthly Market Operations Report.



* Calendar days from reservation date.

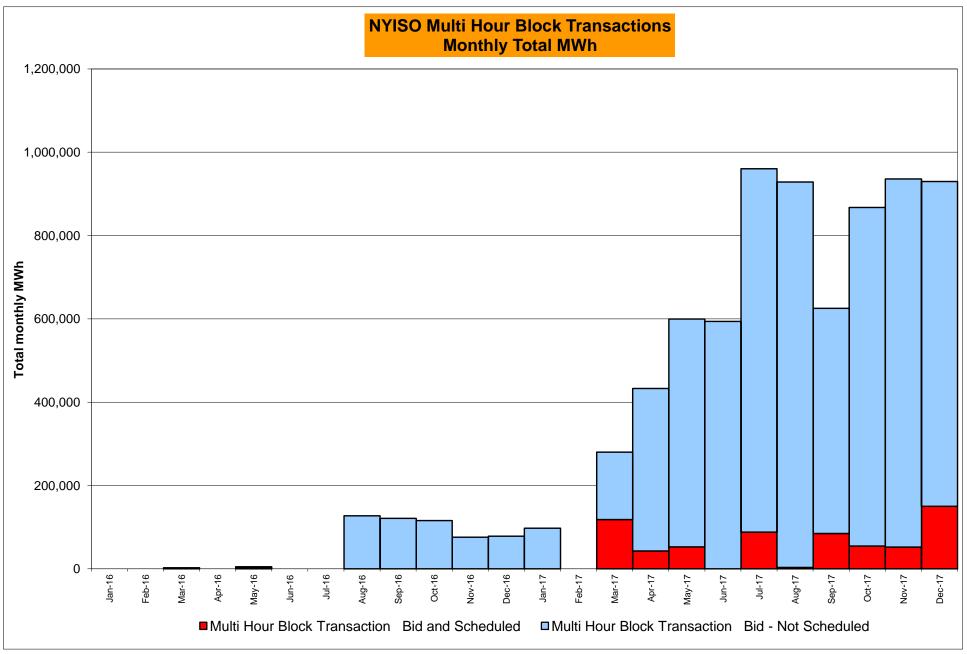
NYISO Virtual Trading Average MWh per day

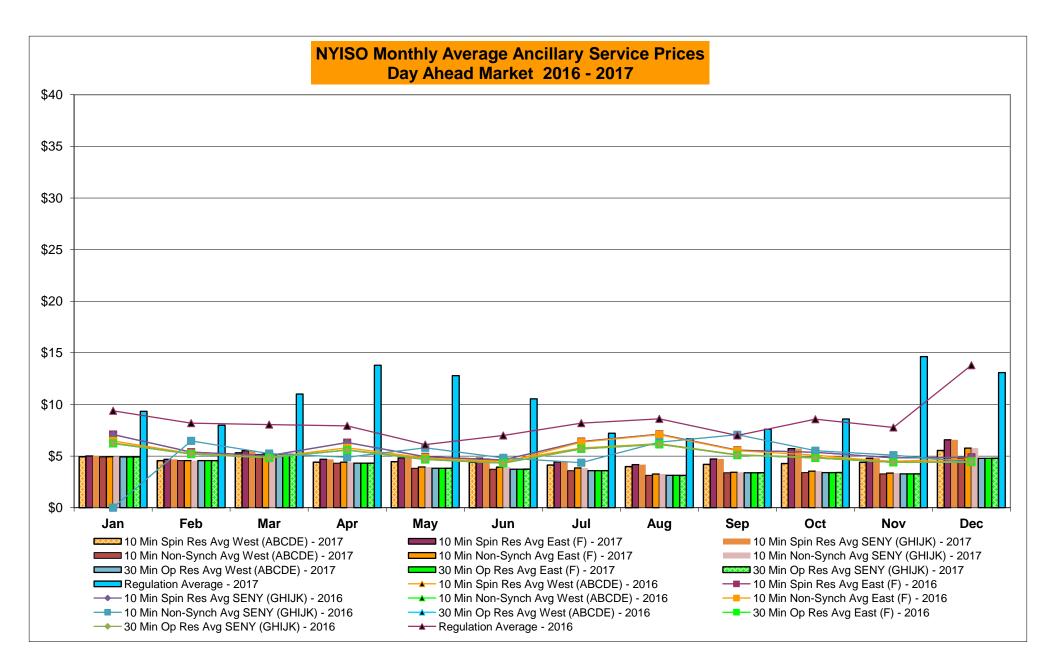


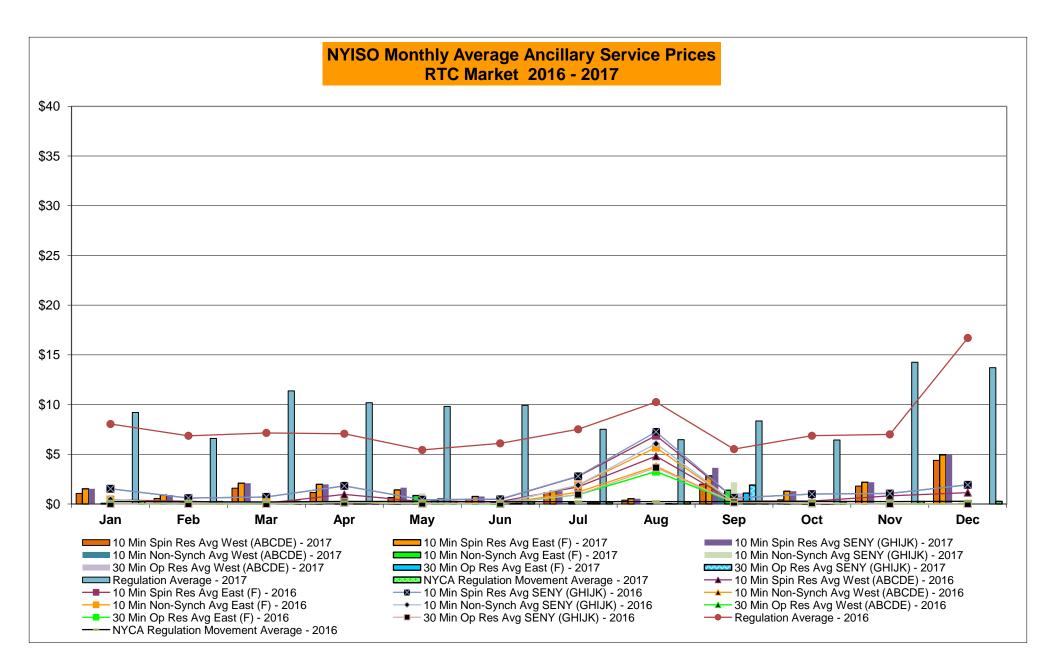


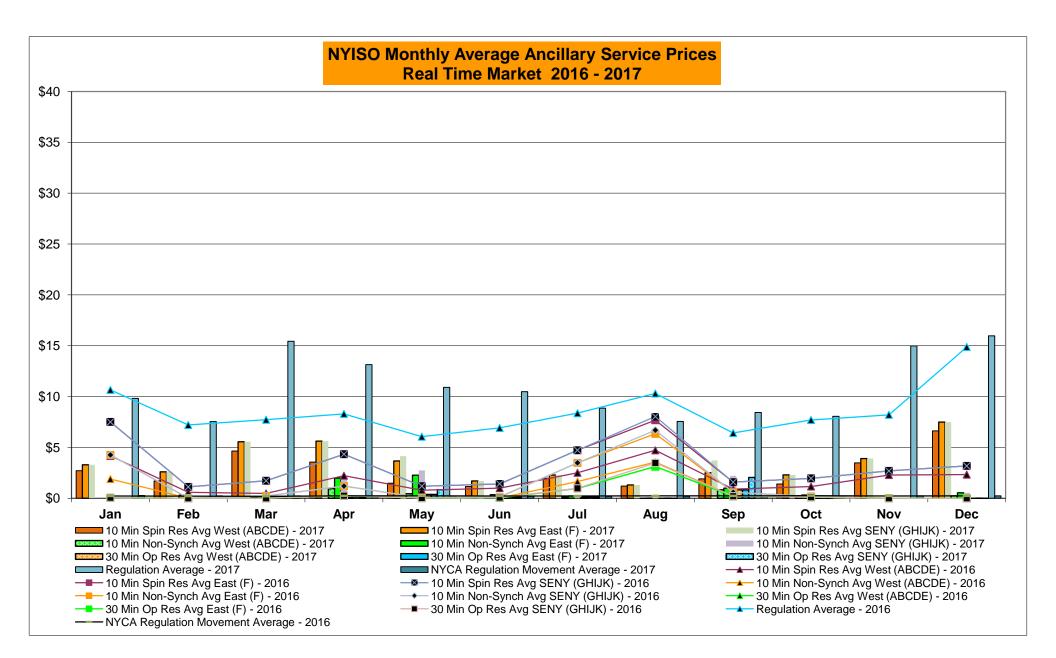
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2017

		Virtual L	oad Bid	Virtual S	upply Bid			Virtual I	_oad Bid	Virtual Su	Ipply Bid			Virtual I	oad Bid	Virtual Su	upply Bid
			Not		Not			- Thuar L	Not		Not				Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-17	6,094	5,795	2,019	337	MHK VL	Jan-17			2,022	131	DUNWOD	Jan-17	304	832	5,708	389
	Feb-17		4,772	3,346	567		Feb-17			2,459	293		Feb-17	193	585	5,966	424
	Mar-17	6,522	4,960	2,386	616		Mar-17			3,594	378		Mar-17	436	763	4,871	439 232
	Apr-17	6,956		1,934	699		Apr-17			2,856	430		Apr-17	1,097	406	3,517	232
	May-17	8,468		1,261	546		May-17			2,786	401		May-17	1,215		1,863	276
	Jun-17	10,776		1,497	512		Jun-17			2,492	586		Jun-17	1,117		3,281	383
	Jul-17	10,883		2,341	538		Jul-17			3,324	468		Jul-17	2,287	281	2,848	246
	Aug-17	9,289		3,043	595		Aug-17			2,915			Aug-17	875		2,611	160
	Sep-17			1,056	334		Sep-17			2,432	892		Sep-17	987	526	2,397	469
	Oct-17	6,899		1,404	341		Oct-17			2,429	316		Oct-17	2,900	990	2,337	193
	Nov-17	8,471	5,925	1,255	447		Nov-17			1,920	437		Nov-17	804	602	2,097	191
	Dec-17	7,637	6,302	1,605	308		Dec-17	664	296	1,931	212		Dec-17	998	1,125	2,074	324
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	600	3,782	3,206		Feb-17	1,115	409	3,432	3,798		Feb-17	4,622	5,309	1,712	1,219
	Mar-17	480	838	3,806	3,419		Mar-17	1,409	528	5,186	2,484		Mar-17	4,052	5,826	1,561	1,058
	Apr-17	353	656	4,074	2,880		Apr-17			5,589	1,973		Apr-17	4,374	4,331	1,161	529
	May-17	393		4,096	2,027		May-17			5,697	1,635		May-17	3,357	4,679	1,434	569
	Jun-17			2,920	2,119		Jun-17			6,479	1,916		Jun-17	8,293	4,163	1,050	
	Jul-17	335		3,494	1,622		Jul-17			5,972	2,754		Jul-17	8,732	2,726	1,728	902
	Aug-17	505		3,186	1,912		Aug-17			6,112	2,682		Aug-17	5,911	2,890	1,284	430
	Sep-17	541		2,105	1,132		Sep-17			4,943	2,426		Sep-17	3,224	3,937	1,972	1,027
	Oct-17			3,393	1,130		Oct-17			5,055	1,578		Oct-17	2,251	3,626	6,178	1,547
	Nov-17	542		2,741	1,193		Nov-17	,		5,858	2,645		Nov-17	2,734	3,637	1,659	672
	Dec-17	644	183	1,416	1,364		Dec-17	1,587	1,348	4,887	2,505		Dec-17	3,714	5,174	998	462
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	465		7,504	4,006		Feb-17			6,266	3,873		Feb-17	3,341	3,127	1,653	1,667
	Mar-17			7,227	4,576		Mar-17		,	5,427	,		Mar-17	4,133	3,779	1,958	
	Apr-17			7,520	4,435		Apr-17			5,708			Apr-17	3,706		1,748	
	May-17	555		7,848	2,436		May-17			6,608	2,378		May-17	4,232		1,740	
	Jun-17	552		6,955	2,920		Jun-17			6,861	3,317		Jun-17	4,848		1,402	
	Jul-17			6,883	2,889		Jul-17			6,184	4,114		Jul-17	4,846		1,320	
	Aug-17	625		7,799	4,744		Aug-17			7,576			Aug-17		2,711	1,379	
	Sep-17			6,315	5,216		Sep-17			5,422			Sep-17	4,083		1,355	
	Oct-17	533		7,470	3,864		Oct-17		1,116	6,240	1,414		Oct-17	3,842		1,676	
	Nov-17 Dec-17			7,726 6,845	2,190 2,079		Nov-17 Dec-17			7,281 7,335	8,210		Nov-17 Dec-17		2,757 4,750	1,643 1,721	507 739
	Dec-17	541	359	0,043	2,079		Dec-17	1,210	2,100	7,335	10,170		Dec-17	3,251	4,750	1,721	735
CENTRL	Jan-17	1,482	455	22,561	196	MILLWD	Jan-17	435	91	1,422	128	NYISO	Jan-17	21,713	19,719	56,001	16,436
	Feb-17			20,639	320		Feb-17	202		1,555	164		Feb-17	16,405	16,406	58,312	
	Mar-17			18,610	518		Mar-17			1,452	158		Mar-17	19,956	,	56,078	· · · · · · · · · · · · · · · · · · ·
	Apr-17	1,079		30,148	519		Apr-17			1,228	149		Apr-17	21,767	16,586	65,484	15,411
	May-17	1,472		30,724	312		May-17			1,474	195		May-17	23,320	16,222	65,531	11,774
	Jun-17			35,205	380		Jun-17			2,019			Jun-17	30,736		70,160	
	Jul-17			32,177	303		Jul-17			1,865	361		Jul-17	32,377	15,396	68,136	
	Aug-17	1,566		25,045	258		Aug-17			1,923	272		Aug-17	26,086		62,874	17,809
	Sep-17			26,053	381		Sep-17			1,815			Sep-17	22,912		55,865	
	Oct-17			27,605	188		Oct-17			1,956	212		Oct-17	21,430		65,743	
	Nov-17	1,151	290	27,934	440		Nov-17	573	283	1,653	401		Nov-17	20,922	15,591	61,766	17,332





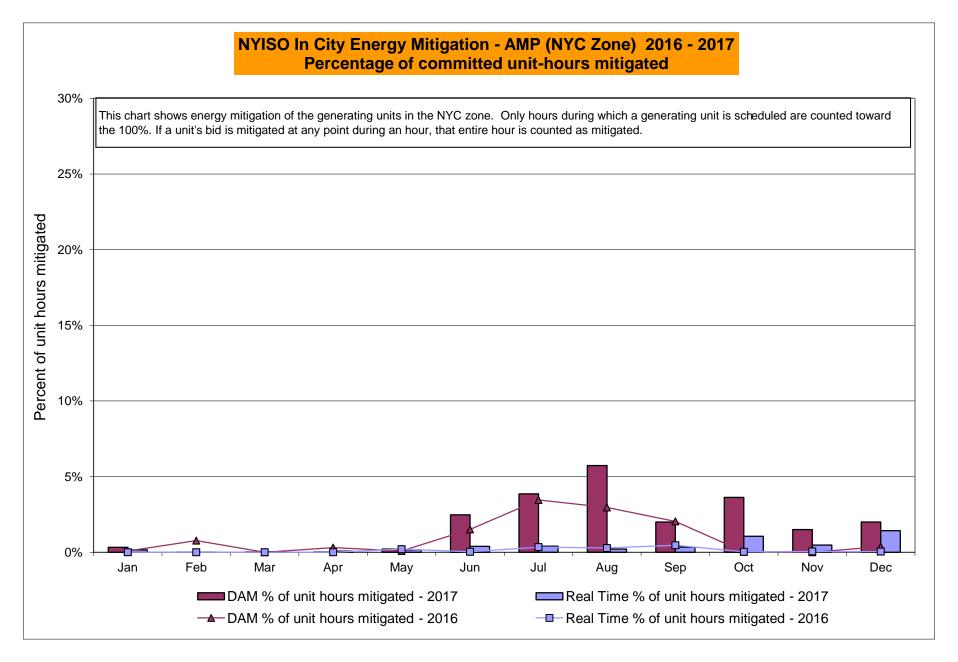


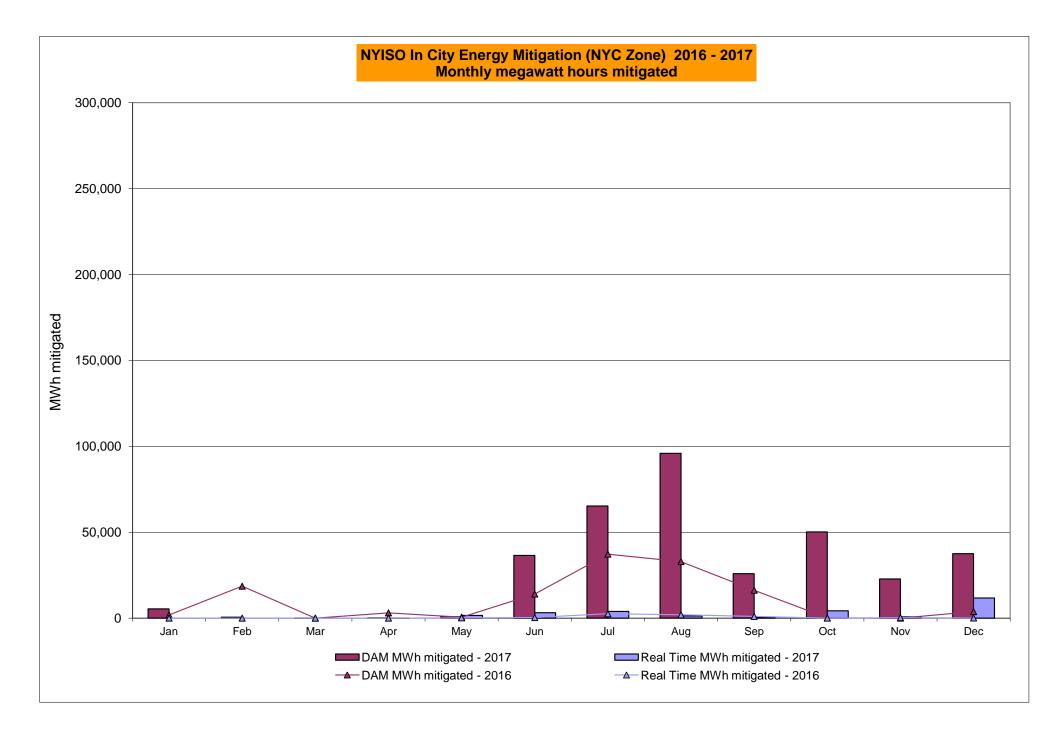


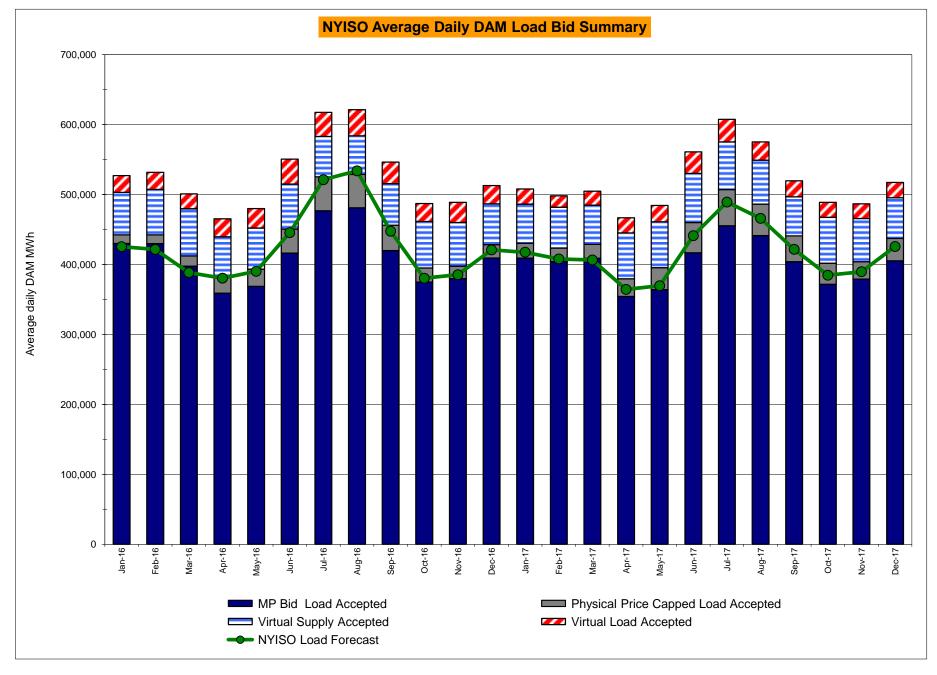
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

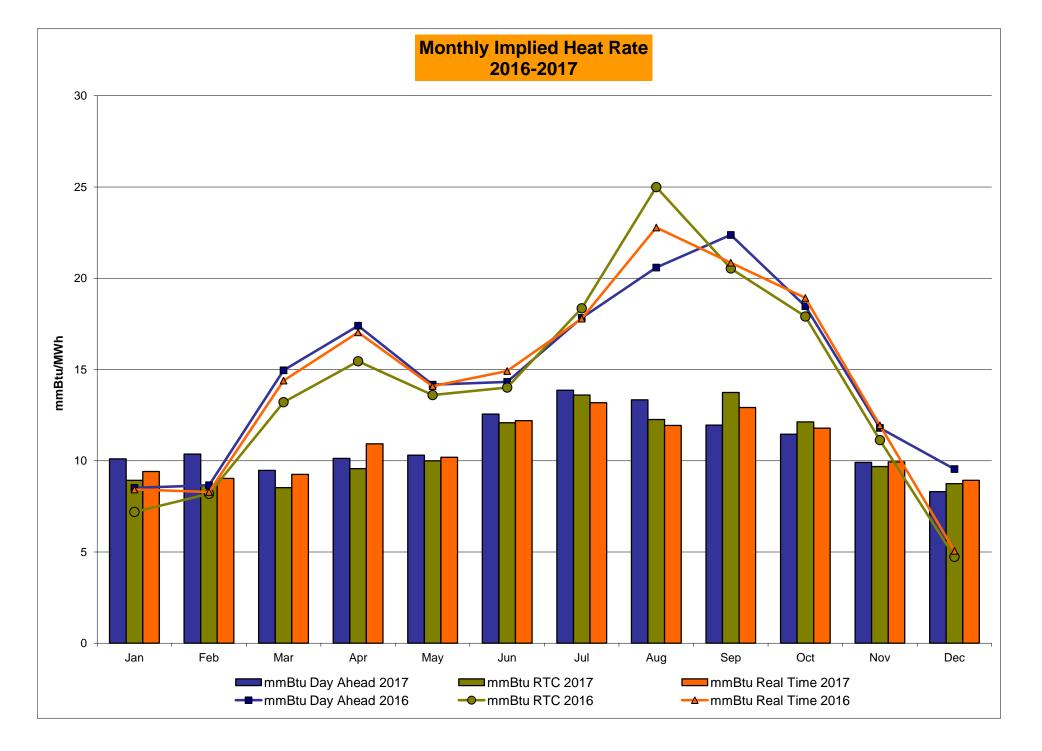
		Iai nels A	i oniai y				
2017	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	July
Day Ahead Market	<u>e cantel can y</u>	<u> </u>		<u></u>	<u></u>	<u>•••••</u>	<u>•••·</u>
10 Min Spin SENY (GHIJK)	5.01	4.68	5.53	4.68	4.82	4.79	4.44
10 Min Spin East (F)	5.01	4.68	5.53	4.68	4.82	4.79	4.44
10 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
•	9.04	7.55	11.01	13.00	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)			0.10	0.03	0.27	0.05	
, ,	0.00	0.00					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
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	0.27	0.24	0.25	0.20	0.22	0.19	0.19
			N 4 1-	A	N 4	1	1 I
2016	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>
Day Ahead Market							
Day Ahead Market 10 Min Spin SENY (GHIJK)	7.09	5.38	5.04	6.31	4.93	4.62	6.41
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	7.09 7.09	5.38 5.38	5.04 5.04	6.31 6.31	4.93 4.93	4.62 4.62	6.41 6.41
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	7.09 7.09 6.28	5.38 5.38 5.25	5.04 5.04 4.84	6.31 6.31 5.60	4.93 4.93 4.77	4.62 4.62 4.52	6.41 6.41 5.78
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	7.09 7.09 6.28 6.47	5.38 5.38 5.25 5.25	5.04 5.04 4.84 4.88	6.31 6.31 5.60 5.80	4.93 4.93 4.77 4.83	4.62 4.62 4.52 4.36	6.41 6.41 5.78 6.34
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	7.09 7.09 6.28	5.38 5.38 5.25	5.04 5.04 4.84	6.31 6.31 5.60	4.93 4.93 4.77	4.62 4.62 4.52	6.41 6.41 5.78
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	7.09 7.09 6.28 6.47	5.38 5.38 5.25 5.25	5.04 5.04 4.84 4.88	6.31 6.31 5.60 5.80	4.93 4.93 4.77 4.83	4.62 4.62 4.52 4.36	6.41 6.41 5.78 6.34
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	7.09 7.09 6.28 6.47 6.47	5.38 5.38 5.25 5.25 5.25	5.04 5.04 4.84 4.88 4.88	6.31 6.31 5.60 5.80 5.80	4.93 4.93 4.77 4.83 4.83	4.62 4.62 4.52 4.36 4.36	6.41 6.41 5.78 6.34 6.34
Day Ahead Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	7.09 7.09 6.28 6.47 6.47 6.23 6.23	5.38 5.38 5.25 5.25 5.25 5.25 5.20	5.04 5.04 4.84 4.88 4.88 4.88	6.31 6.31 5.60 5.80 5.80 5.58	4.93 4.93 4.77 4.83 4.83 4.68	4.62 4.62 4.52 4.36 4.36 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.88 4.84 4.84 4.84	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min East (F)30 Min West (ABCDE)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.88 4.84 4.84 4.84 4	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)Regulation	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.88 4.84 4.84 4.84	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 $1.531.530.42$	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 4.67 6.11 0.43 0.43 0.23	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)	7.097.096.286.476.476.236.236.236.236.239.391.531.531.530.420.45	5.38 5.38 5.25 5.25 5.25 5.20 0.59 0.26 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17	6.31 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 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin Kest (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45	5.38 5.38 5.25 5.25 5.20 0.59 0.26 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17	$\begin{array}{c} 6.31 \\ 6.31 \\ 5.60 \\ 5.80 \\ 5.80 \\ 5.58 \\ 5.58 \\ 5.58 \\ 5.58 \\ 5.58 \\ 7.93 \\ \end{array}$	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.62 4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)	7.097.096.286.476.476.236.236.236.236.239.391.531.531.530.420.45	5.38 5.38 5.25 5.25 5.25 5.20 0.59 0.26 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17	6.31 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 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin Kest (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45	5.38 5.38 5.25 5.25 5.20 0.59 0.26 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17	$\begin{array}{c} 6.31 \\ 6.31 \\ 5.60 \\ 5.80 \\ 5.80 \\ 5.58 \\ 5.58 \\ 5.58 \\ 5.58 \\ 5.58 \\ 7.93 \\ \end{array}$	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.62 4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min 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)10 Min Non Synch West (ABCDE)10 Min Non Synch West (ABCDE)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04	5.38 5.38 5.25 5.25 5.20 8.19 0.26 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ 0.43 \\ 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.04 \\ \end{array}$	4.62 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 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
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin 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 West (ABCDE)30 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)	7.09 7.09 6.28 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04 0.01	5.38 5.38 5.25 5.25 5.25 5.20 0.59 0.26 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 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 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
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01	5.38 5.38 5.25 5.25 5.20 0.59 0.26 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.62 4.52 4.36 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 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
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE) <td>$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$</td> <td>5.38 5.38 5.25 5.25 5.20 0.59 0.26 0.00</td> <td>5.04 5.04 4.84 4.88 4.88 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 7.15</td> <td>$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$</td> <td>$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$ $\begin{array}{c} 0.43 \\ 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 5.43 \end{array}$</td> <td>4.62 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<math>0.02 0</math></td> <td>6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51</td>	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	5.38 5.38 5.25 5.25 5.20 0.59 0.26 0.00	5.04 5.04 4.84 4.88 4.88 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 7.15	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$ $\begin{array}{c} 0.43 \\ 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.04 \\ 0.04 \\ 0.04 \\ 0.04 \\ 5.43 \end{array}$	4.62 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 0.020	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)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 West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation Movement	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 0.01	5.38 5.38 5.25 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	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.85 0.71 0.71 0.71 0.708 0.17 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.62 4.52 4.36 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	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)Regulation RTC Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)30 Min Kest (ABCDE)30 Min SENY (GHIJK)30 Min Kest (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation MovementReal Time Market	7.09 7.09 6.28 6.47 6.47 6.23 6.23 6.23 6.23 6.23 9.39 1.53 1.53 0.42 0.45 0.45 0.04 0.01 0.01 0.01 8.04 0.23	5.38 5.38 5.25 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 0.21	5.04 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 4.85 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 7.15 0.20	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.020	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin 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 East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation MovementReal Time Market10 Min Spin SENY (GHIJK)	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.11\\ 1.12\end{array}$	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)Regulation RTC Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.11\\ 1.12\\ 1.12\end{array}$	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 0.04	$\begin{array}{c} 4.62\\ 4.62\\ 4.52\\ 4.36\\ 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ 0.49\\ 0.46\\ 0.24\\ 0.05\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 6.09\\ 0.23\\ 1.43\\ 1.40\\ \end{array}$	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.73 4.72
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)Regulation RTC Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch Kast (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)30 Min West (ABCDE)RegulationNYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.26\\ 0.00\\$	5.04 5.04 4.84 4.84 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 6.05 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 0.00 0.00 0.17 0.20 1.73 1.73 0.48	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	$\begin{array}{c} 4.62\\ 4.62\\ 4.52\\ 4.36\\ 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ 0.49\\ 0.46\\ 0.24\\ 0.05\\ 0.02\\$	6.41 6.41 5.78 6.34 6.34 5.72 5.70 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
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationNYCA Regulation MovementReal Time Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 0.59\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\$	5.04 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 4.84 4.84 6.05 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 0.00 0.00 0.17 0.20 1.73 1.73 0.48 0.22	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	$\begin{array}{c} 4.62\\ 4.62\\ 4.52\\ 4.36\\ 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ 0.49\\ 0.46\\ 0.24\\ 0.05\\ 0.02\\ 0.015\\ \end{array}$	6.41 6.41 5.78 6.34 6.34 5.72 5.70 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
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)Regulation RTC Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationNYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}$ $\begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 4.26\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\$	5.04 5.04 4.84 4.84 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.00 0.22 0.22	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	$\begin{array}{c} 4.62\\ 4.62\\ 4.52\\ 4.36\\ 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ 0.49\\ 0.46\\ 0.24\\ 0.05\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.01\\ 0.15\\ 0.11\\ \end{array}$	6.41 6.41 5.78 6.34 6.34 5.72 5.70 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
Day Ahead Market10 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 East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min Spin East (F)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Spin East (F)30 Min Non Synch SENY (GHIJK)30 M	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.26\\ 0.00\\$	5.04 5.04 4.84 4.84 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 6.05 0.71 0.71 0.08 0.17 0.00 0.22 0.22 0.00	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	$\begin{array}{c} 4.62\\ 4.62\\ 4.52\\ 4.36\\ 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	6.41 6.41 5.78 6.34 6.34 5.72 5.70 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
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min East (F)30 Min West (ABCDE)Regulation RTC Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationNYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}$ $\begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 4.26\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\$	5.04 5.04 4.84 4.84 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.00 0.22 0.22	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	$\begin{array}{c} 4.62\\ 4.62\\ 4.52\\ 4.36\\ 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ 0.49\\ 0.46\\ 0.24\\ 0.05\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.01\\ 0.15\\ 0.11\\ \end{array}$	6.41 6.41 5.78 6.34 6.34 5.72 5.70 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
Day Ahead Market10 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 East (F)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min Spin East (F)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)30 Min Spin East (F)30 Min Non Synch SENY (GHIJK)30 M	$\begin{array}{c} 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.26\\ 0.00\\$	5.04 5.04 4.84 4.84 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 6.05 0.71 0.71 0.08 0.17 0.00 0.22 0.22 0.00	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	$\begin{array}{c} 4.62\\ 4.62\\ 4.52\\ 4.36\\ 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	6.41 6.41 5.78 6.34 6.34 5.72 5.70 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
Day Ahead Market10 Min Spin SENY (GHIJK)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 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min SENY (GHIJK)30 Min Spin East (F)30 Min Non Synch SENY (GHIJK)30 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)	$\begin{array}{c} 7.09\\ 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.00\\ 0.01\\ 0.00\\ 0.$	$\begin{array}{c} 5.38\\ 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.26\\ 0.00\\$	5.04 5.04 4.84 4.84 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 6.05 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 0.00 0.00 0.00 0.02	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	$\begin{array}{c} 4.62\\ 4.62\\ 4.52\\ 4.36\\ 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	$ \begin{array}{c} 6.41\\ 6.41\\ 5.78\\ 6.34\\ 6.34\\ 5.72\\ 5.70\\ 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\\ \end{array} $
Day Ahead Market10 Min Spin SENY (GHIJK)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 Min SENY (GHIJK)30 Min West (ABCDE)RegulationRTC Market10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min SENY (GHIJK)30 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)30 Min S	$\begin{array}{c} 7.09\\ 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}$ $\begin{array}{c} 7.51\\ 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 1.89\\ 0.06\\ 0.06\\ 0.06\\ \end{array}$	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 0.59 0.26 0.00	5.04 5.04 4.84 4.84 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 6.05 0.71 0.71 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48 0.22 0.00	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.03 0.11 0.04 0.07 0.04	$ \begin{array}{c} 6.41\\ 6.41\\ 5.78\\ 6.34\\ 6.34\\ 6.34\\ 5.72\\ 5.70\\ 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\\ 0.97\\ \end{array} $
Day Ahead Market10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch East (F)10 Min Non Synch West (ABCDE)30 Min SENY (GHIJK)30 Min SENY (GHIJK)30 Min West (ABCDE)Regulation RTC Market 10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin West (ABCDE)10 Min Spin West (ABCDE)10 Min Non Synch SENY (GHIJK)10 Min Non Synch SENY (GHIJK)10 Min Non Synch West (ABCDE)30 Min East (F)30 Min East (F)30 Min East (F)30 Min SENY (GHIJK)30 Min East (F)30 Min SENY (GHIJK)30 Min East (F)30 Min Spin SENY (GHIJK)30 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin SENY (GHIJK)10 Min Spin East (F)10 Min Spin East (F)10 Min Spin SENY (GHIJK)10 Min Non Synch Kest (ABCDE)30 Min SENY (GHIJK)30	$\begin{array}{c} 7.09\\ 7.09\\ 7.09\\ 6.28\\ 6.47\\ 6.47\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 6.23\\ 9.39\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 0.42\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.45\\ 0.04\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 8.04\\ 0.23\\ \end{array}$ $\begin{array}{c} 7.51\\ 7.51\\ 4.17\\ 4.26\\ 4.26\\ 1.89\\ 0.06\\ 0.06\\ 0.06\\ 0.06\\ 0.06\\ \end{array}$	5.38 5.38 5.25 5.25 5.25 5.20 0.59 0.26 0.00	5.04 5.04 4.84 4.84 4.88 4.84 0.71 0.71 0.71 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 1.73 0.48 0.22 0.00	$\begin{array}{c} 6.31\\ 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \hline 0.43 \\ 0.23 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.05 \\ 0.06 \\ 0.04 \\ 0.04 \\ 5.43 \\ 0.25 \\ \hline 1.19 \\ 1.19 \\ 1.19 \\ 0.79 \\ 0.06 \\ 0.06 \\ 0.03 $	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.03 0.15 0.11 0.04 0.07 0.04 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97

<u>August</u>	September	October	November	December
4.18 4.18 3.98 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	5.73 5.73 4.27 3.54 3.54 3.40 3.40 3.40 3.40 8.59	4.80 4.80 4.39 3.35 3.35 3.27 3.27 3.27 3.27 3.27 14.64	6.57 6.57 5.54 5.77 5.77 4.79 4.78 4.78 4.78 4.78 13.09
0.52 0.52 0.38 0.02 0.02 0.02 0.02 0.02 0.02 0.02 6.47 0.20	3.63 2.83 1.99 2.18 1.38 1.09 1.89 1.09 1.09 8.35 0.21	$\begin{array}{c} 1.28 \\ 1.28 \\ 0.42 \\ 0.11 \\ 0.11 \\ 0.07 \\ 0.05 \\ 0.05 \\ 0.05 \\ 6.44 \\ 0.22 \end{array}$	$\begin{array}{c} 2.19\\ 2.19\\ 1.79\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 14.26\\ 0.24 \end{array}$	$\begin{array}{c} 4.93 \\ 4.93 \\ 4.39 \\ 0.05 \\ 0.05 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 13.71 \\ 0.25 \end{array}$
$\begin{array}{c} 1.31 \\ 1.31 \\ 1.20 \\ 0.01 \\ 0.01 \\ 0.01 \\ 0.01 \\ 0.01 \\ 7.56 \\ 0.20 \end{array}$	3.72 2.51 1.91 2.21 1.00 0.83 2.05 0.83 0.83 8.44 0.21	2.30 2.30 1.40 0.32 0.32 0.22 0.09 0.09 0.09 8.06 0.22	$\begin{array}{c} 3.91 \\ 3.91 \\ 3.49 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 14.99 \\ 0.24 \end{array}$	7.50 7.50 6.63 0.54 0.23 0.01 0.01 15.97 0.24
<u>August</u>	<u>September</u>	<u>October</u>	November	December
7 4 0				
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 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 4.39 7.77	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43 4.43 13.80
7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15	5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10	5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82	4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 4.39	4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43

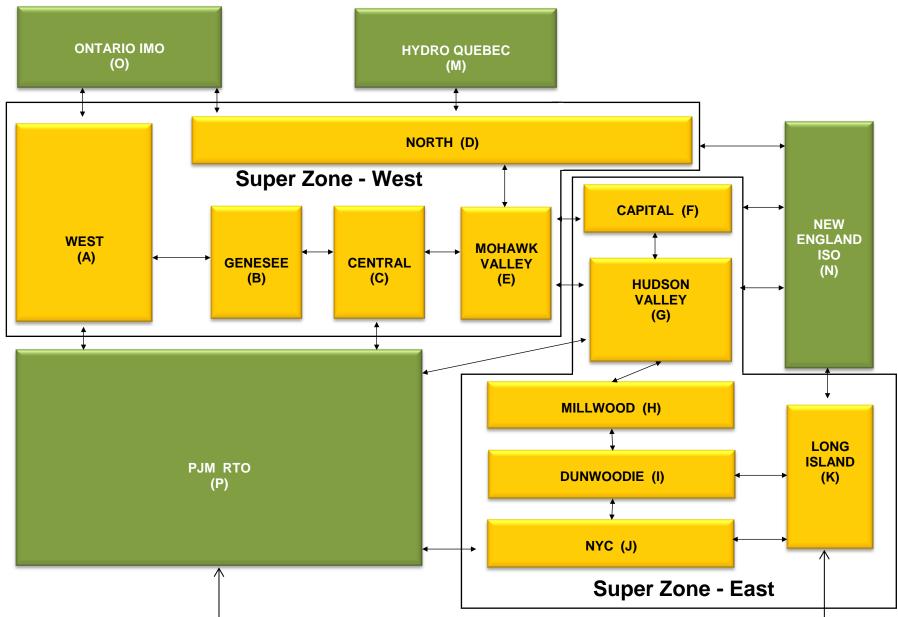






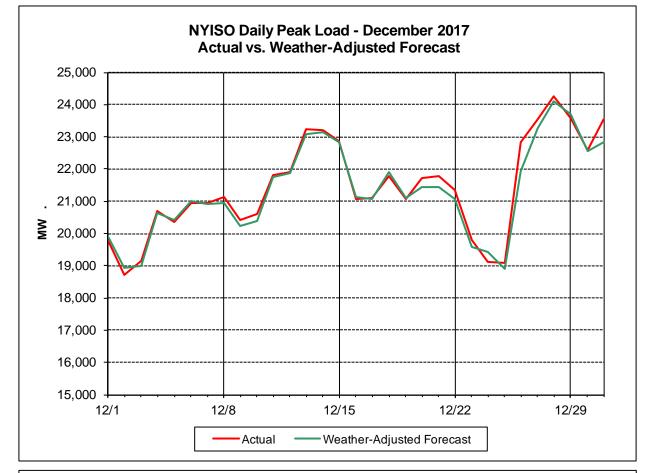


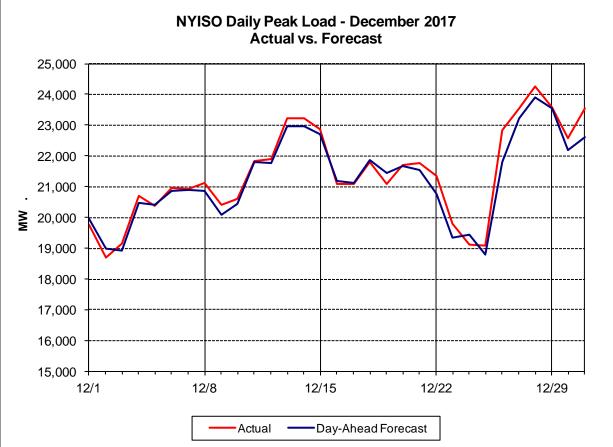
NYISO LBMP ZONES

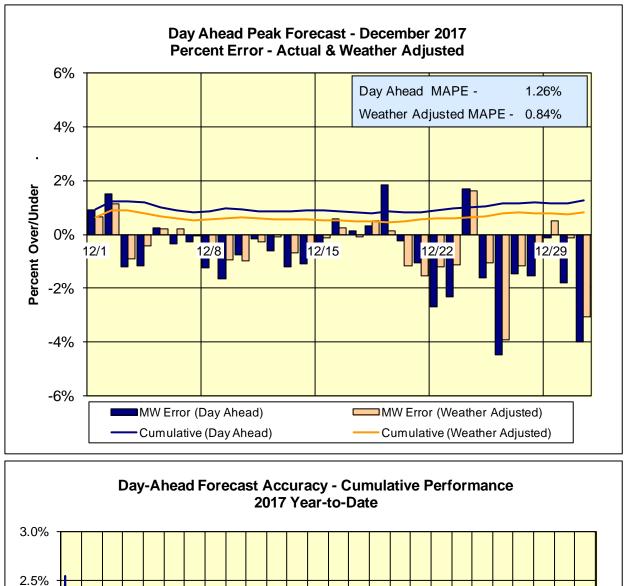


Billing Codes for Chart C

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 – December 2017

Filing Date	Filing Summary	Docket	Order Date	Order Summary
10/16/2017	NYISO 205 filing re: comprehensive interconnection queue process revisions	ER18-80-000	12/07/2017	Order accepted filing as filed with a to be determined 2018 effective date
10/27/2017	NYISO 205 filing re: incorporate an accepted revision that corrects an erroneous data entry for Contract No. 218 in Table 1A of Attachment L of the OATT	ER18-173-000	12/13/2017	Order accepted filing as filed effective 12/27/2017, as requested
12/01/2017	NYISO filing re: answer to the NJBPU and PSE&G requests for rehearing of the 10/06/17 order accepting tariff revisions and denying request for rehearing and clarification	ER17-905-000 ER17-905-001		
12/08/2017	NYISO compliance filing re: offer cap revisions per Order No. 831	ER17-1561-001		
12/15/2017	NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 11/30/2017	PSC Matter No. 10-02007		
12/15/2017	NYISO confidential filing to the NYPSC re: disclosure of five-year capital plan for 2018-2022	PSC Case No. 12-E-0168		
12/15/2017	NYISO filing re: annual installed capacity report on the NYISO's capacity market, possible withholding, new generation projects,and net revenue analysis	ER01-3001-000 ER04-647-000		
12/19/2017	NYISO confidential filing to the NYPSC re: the 2017 transmission planning assessment	PSC Matter No. 10-02007		
12/28/2017	NYISO, <i>et. al.</i> filing re: request for extension of time to answer the NJBPU complaint v. PJM, NYISO, Consolidated Edison, Linden VFT, Hudson Transmission Partners and NYPA	EL18-54-000		