

Monthly Report

March 2018



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Operations Performance Metrics Monthly Report



March 2018 Report

Operations & Reliability Department New York Independent System Operator



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March 2018 Operations Performance Highlights

- Peak load of 20,756 MW occurred on 03/07/2018 HB 18
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 6 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- A Major Emergency was declared on 03/08/2018 in HB00 for the loss of 1,600MW of generation in ISONE causing the Central East interface flow to exceed its voltage collapse limit.
- A Major Emergency was declared on 03/14/2018 in HB08 for the loss of 2,000MW of generation in ISONE causing the Central East interface flow to exceed its voltage collapse limit.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.45	\$7.99
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.13)	\$0.65
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.01	(\$0.48)
Total NY Savings	\$0.33	\$8.16
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.48	\$0.88
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.02	\$0.16
Total Regional Savings	\$0.50	\$1.04

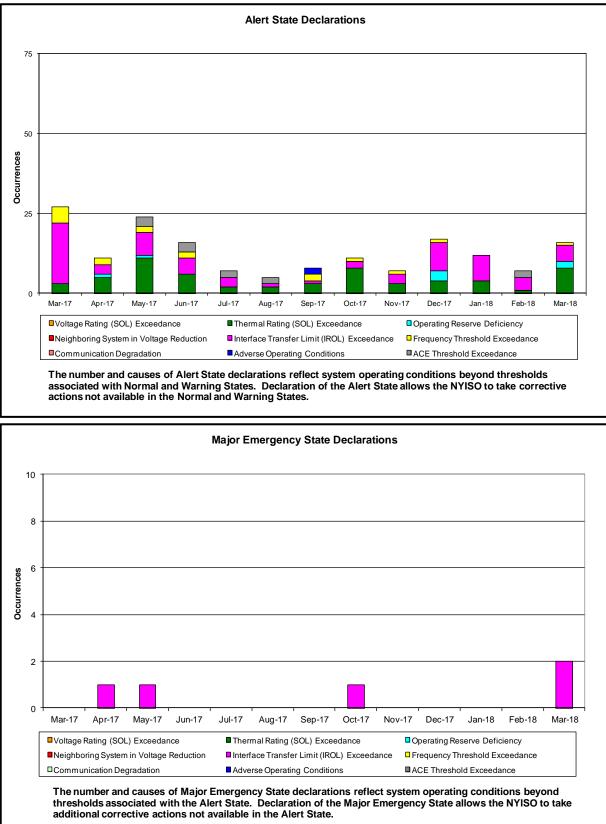
- Statewide uplift cost monthly average was (\$0.51)/MWh
- The following table identifies the Monthly ICAP Spot Market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
April 2018 Spot Price	\$0.25	\$4.71	\$4.71	\$0.70
March 2018 Spot Price	\$0.15	\$3.12	\$3.12	\$0.70
Delta	\$0.10	\$1.59	\$1.59	\$0.00

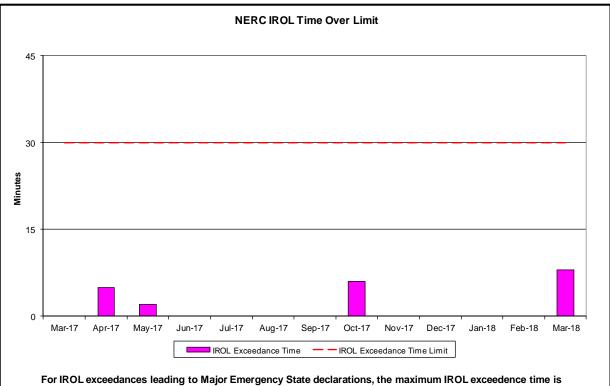
- NYC Price increase by \$1.59 due to decreases in Generation UCAP Available
- GHIJ Price increase by \$1.59 due to decreases in Generation UCAP Available
- NYCA Price increase by \$0.10 due to changes in Generation UCAP Available, imports, and exports.



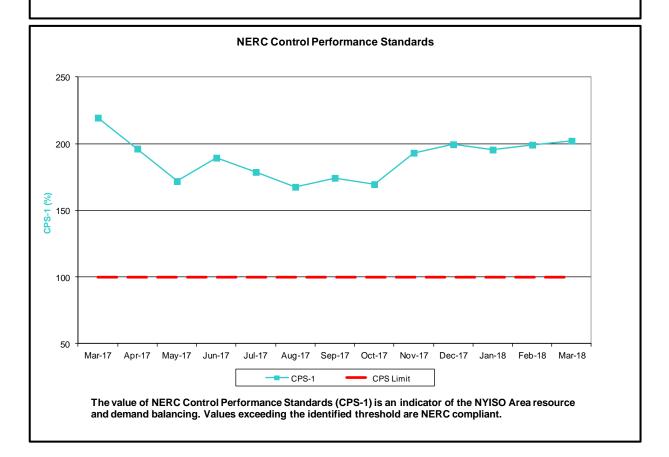
• Reliability Performance Metrics



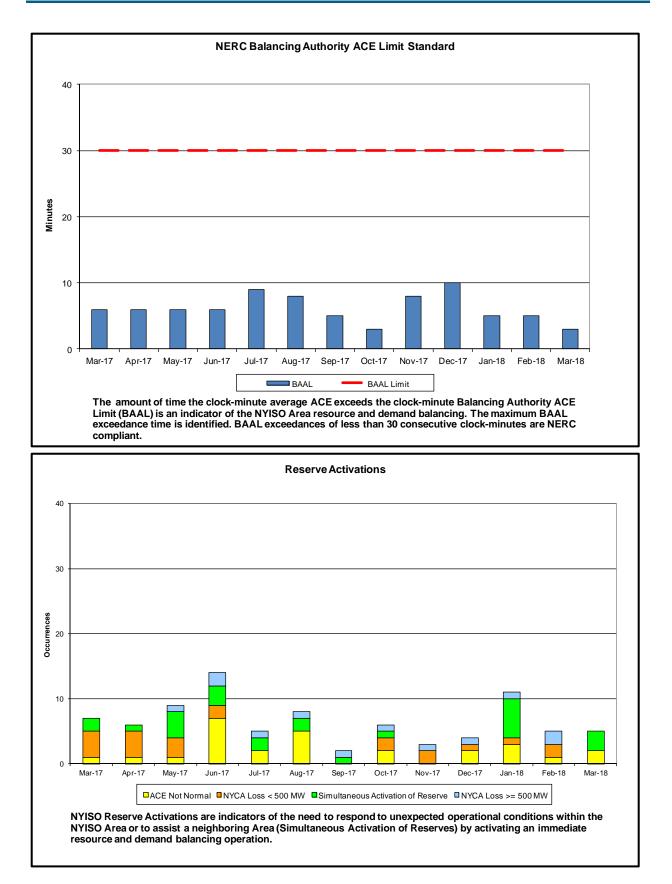




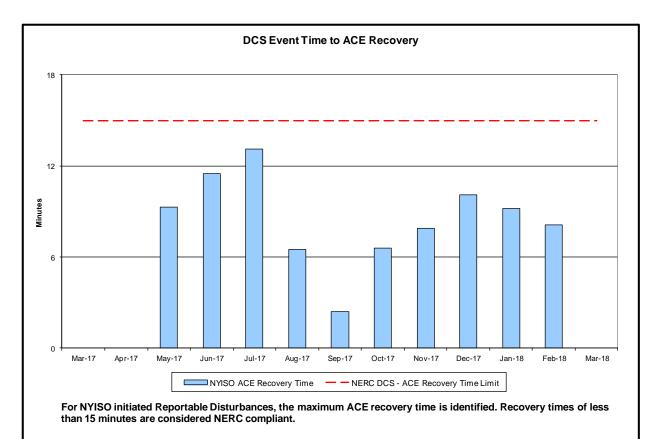
identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

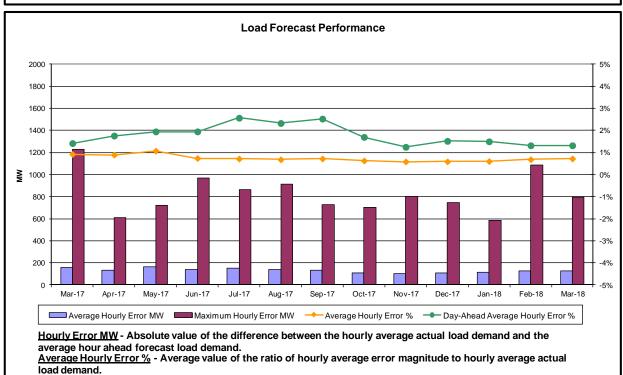






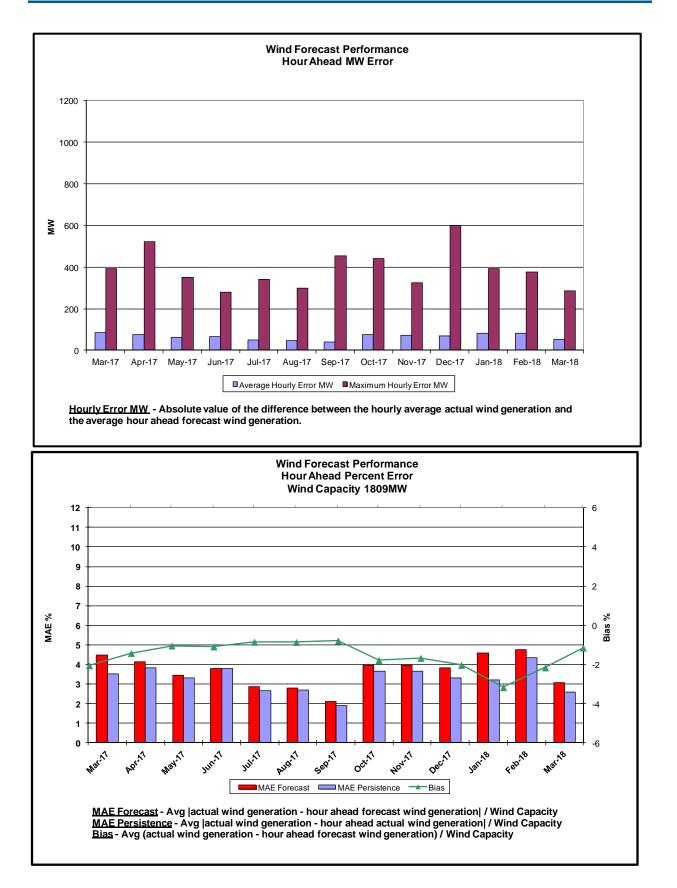




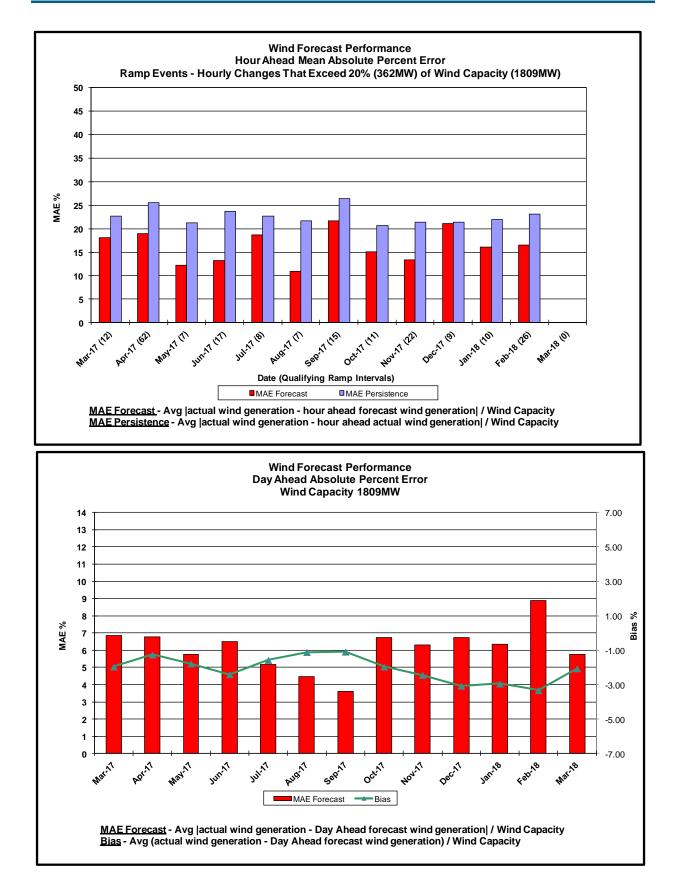


<u>Day-Ahead Average Hourly Error %</u> - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

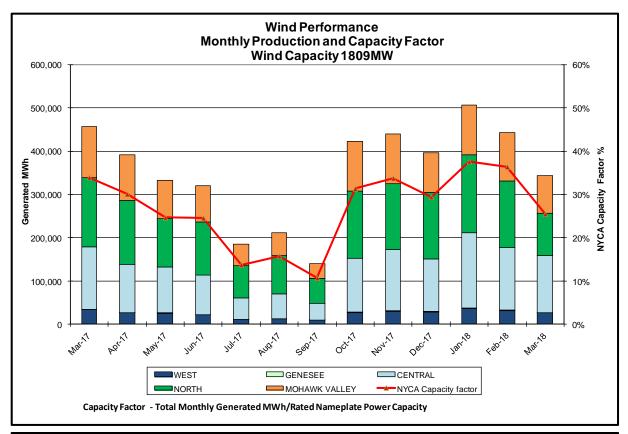


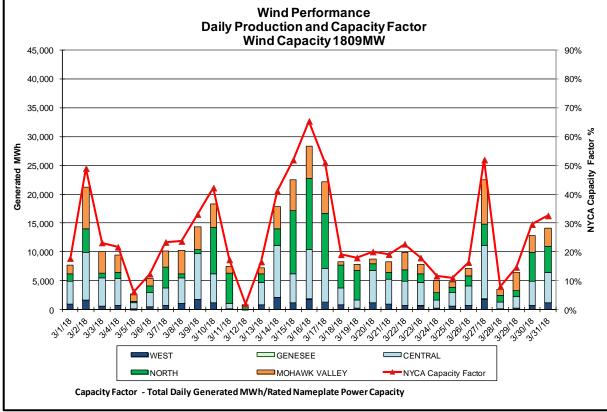




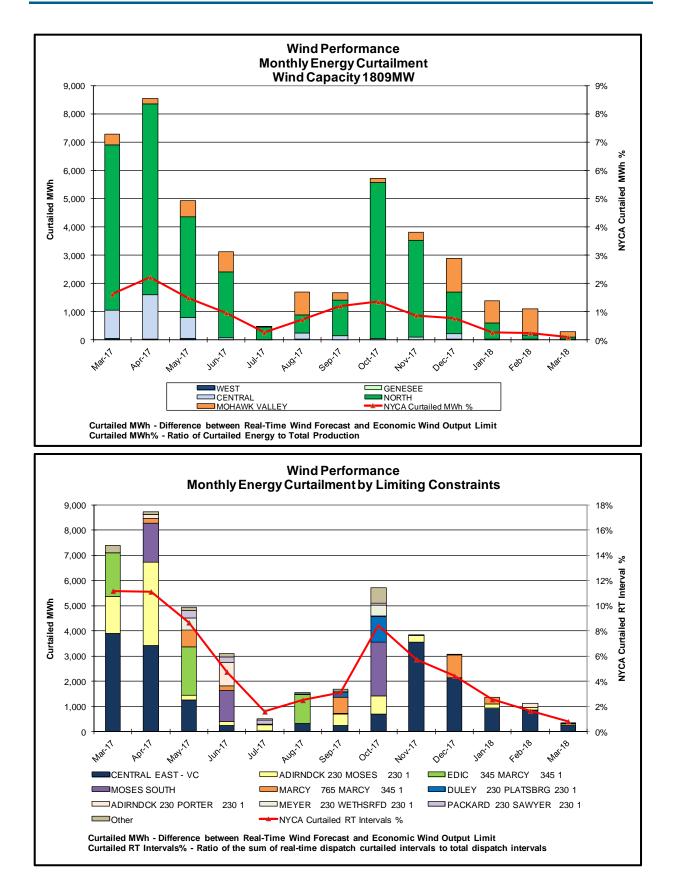




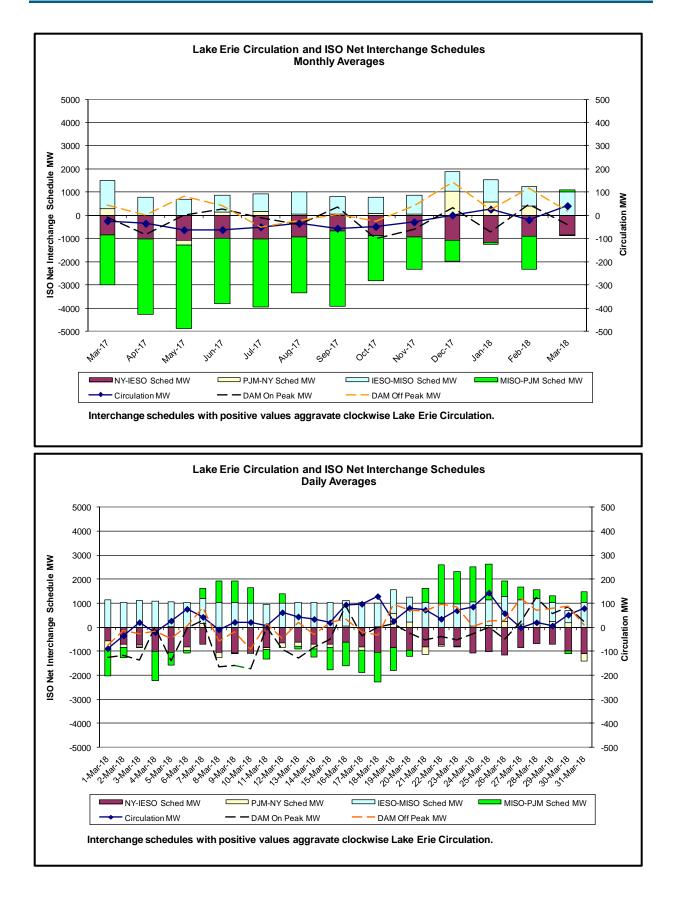




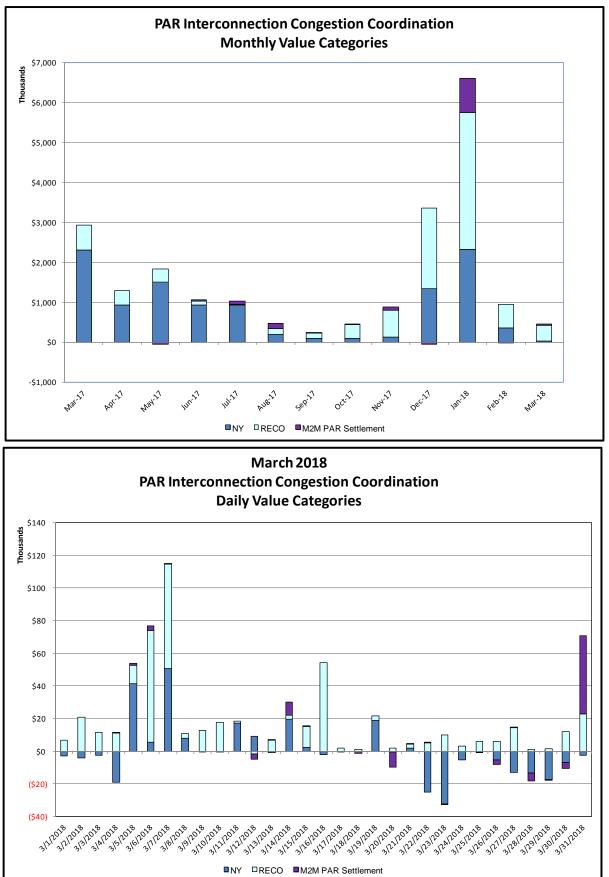










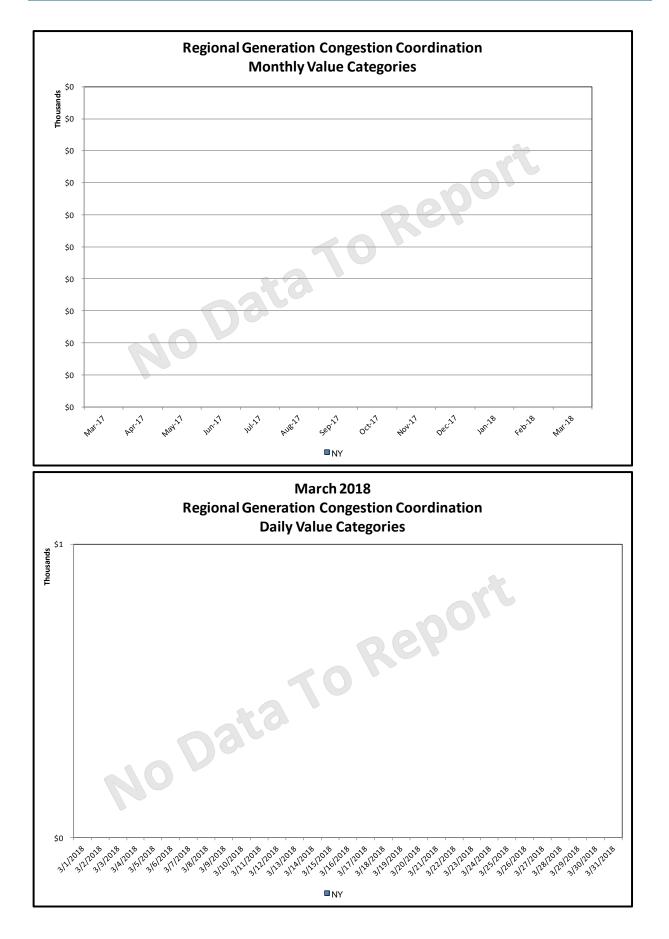


Broader Regional Market Performance Metrics



	PAR Interconnection Congestion Coordination					
<u>Category</u> NY	<u>Description</u> 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.					







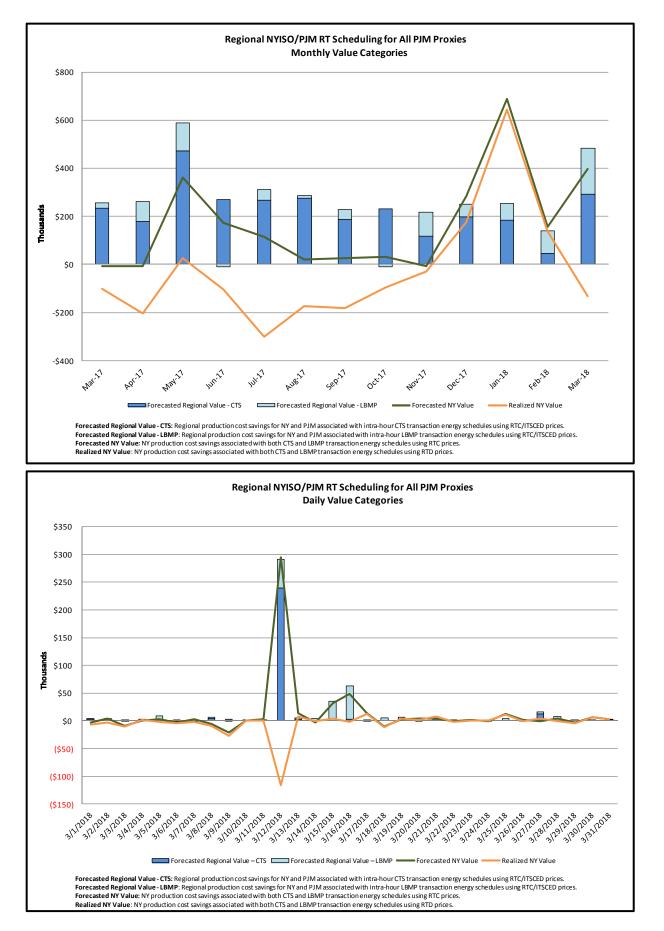
Regional Generation Congestion Coordination

<u>Category</u> NY

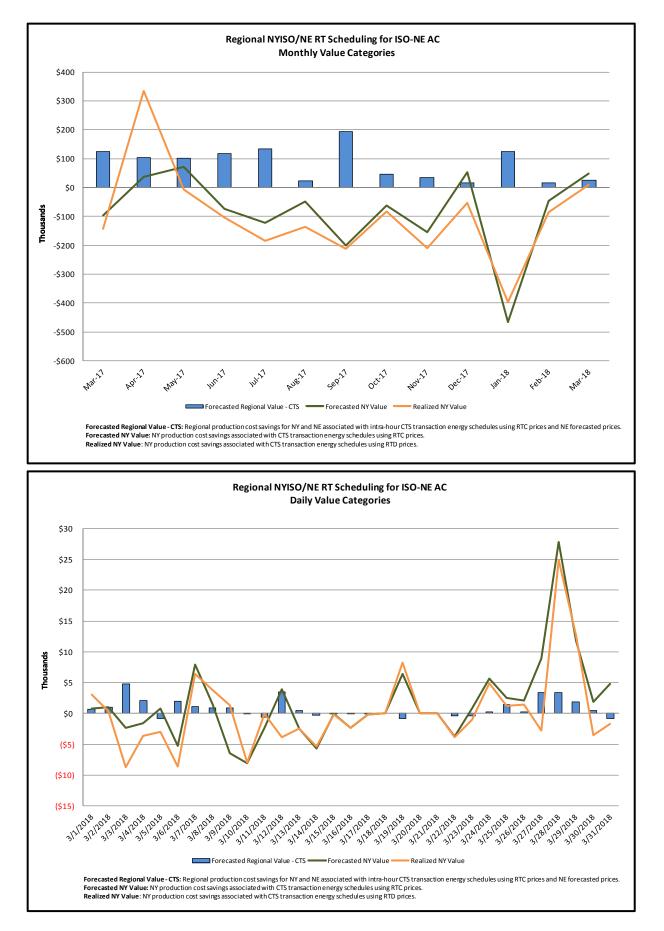
Description

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.



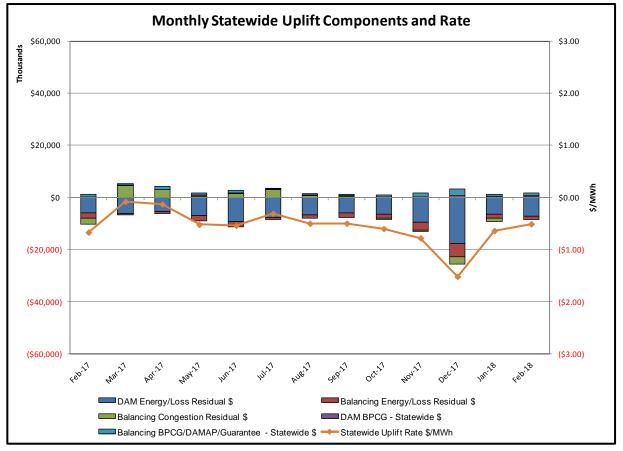




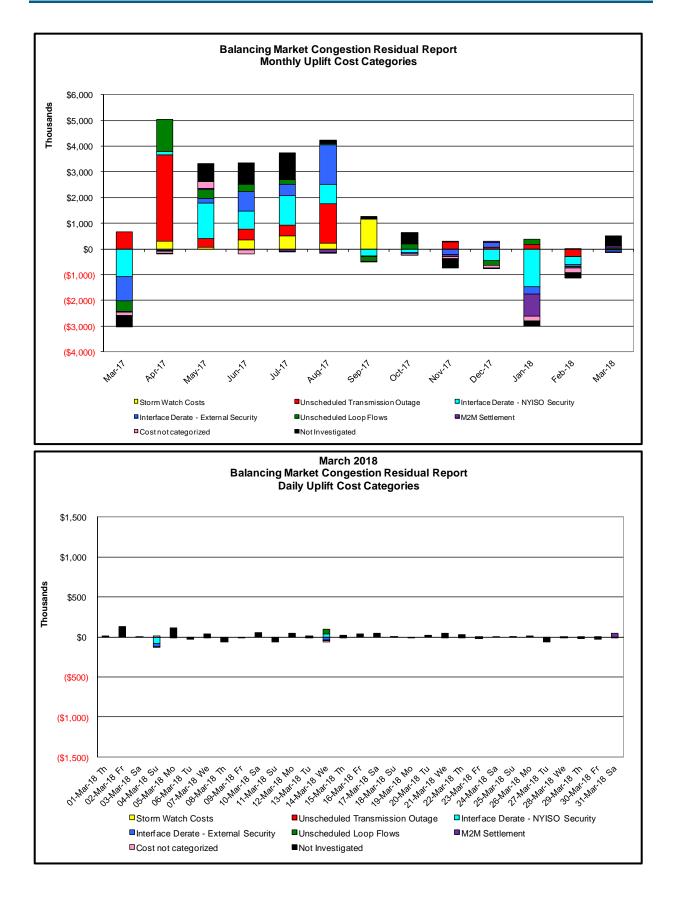




Market Performance Metrics





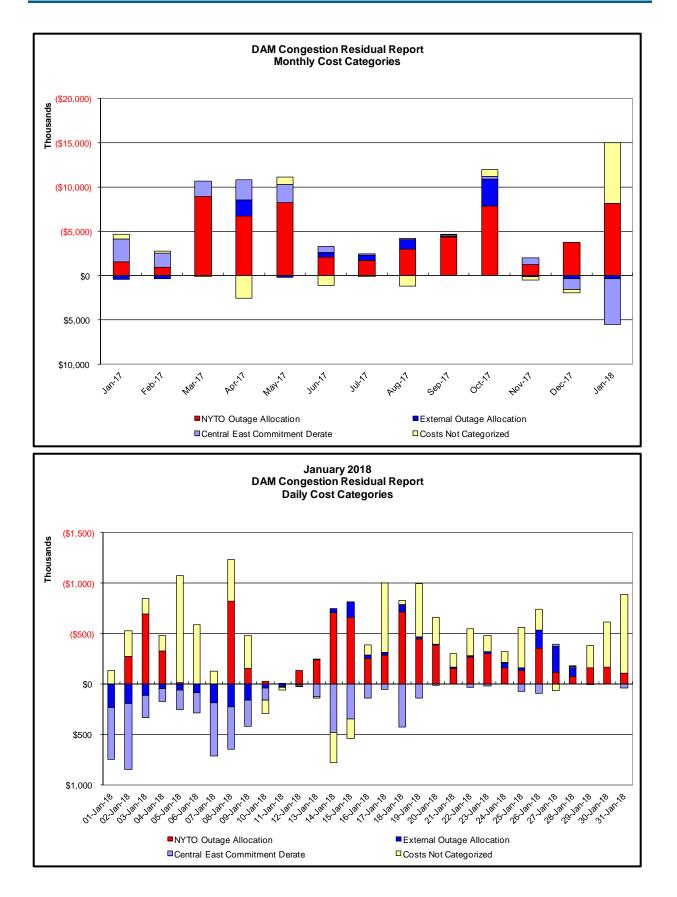




vent	vestigated in March: 4, Date (yyyymmdd)	Hours	Description
vent			
	3/4/2018	,	Uprate Farragut-Gowanus 345kV (#41)
	3/4/2018	- / -	Uprate Greewood-Vernon 138kV (#31231) I/o TWR:GOETHALS 22 & 21
	3/4/2018	19,20	Uprate Motthaven-Dunwoodie 345kV (#71)
	3/4/2018	9	Derate Central East
	3/4/2018	9	Derate Gowanus-Greenwood 138kV (#42232) I/o TWR:GOETHALS 22 & 21
	3/4/2018	19	NE_AC-NY Scheduling Limit
	3/4/2018	9	NE_AC DNI Ramp Limit
	3/14/2018	23	Uprate Central East
	3/14/2018	8	Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o SCB:SPBK(RNS2):Y49&M29&Y49_ST
	3/14/2018	8,21	Derate East 179th Street-HellGate East 138kV (#15055)
	3/14/2018	21	Derate East 179th Street-HellGate East 138kV (#15054)
	3/14/2018	11,13,19,23	Uprate Farragut-Hudson Avenue 138kV (#32078)
	3/14/2018	8,21	Derate Gowanus-Greenwood 138kV (#42232) I/o TWR:GOETHALS 22 & 21
	3/14/2018	8,21	Derate Greewood-Vernon 138kV (#31231) I/o TWR:GOETHALS 22 & 21
	3/14/2018	8	Derate Gowanus-Greenwood 345kV (#26) I/o SCB:GOETH(3):25&22&R25
	3/14/2018	8	Derate Gowanus-Greenwood 345kV (#25) I/o SCB:GOETH(9):G23L&26&R26
	3/14/2018	11,13,14	Uprate MottHaven-Dunwoodie 345kV (#71)
	3/14/2018	8,21	Derate MottHaven-Dunwoodie 345kV (#71) for I/o SIN: E13THSTA M55 & BK13
	3/14/2018	23	NE_AC-NY Scheduling Limit
	3/14/2018	11,13-16	NE_NNC1385-NY Scheduling Limit
	3/14/2018	8,23	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	3/14/2018	8	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer 230kV
	3/14/2018	8	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Niagara-Robinson-Road 230kV

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

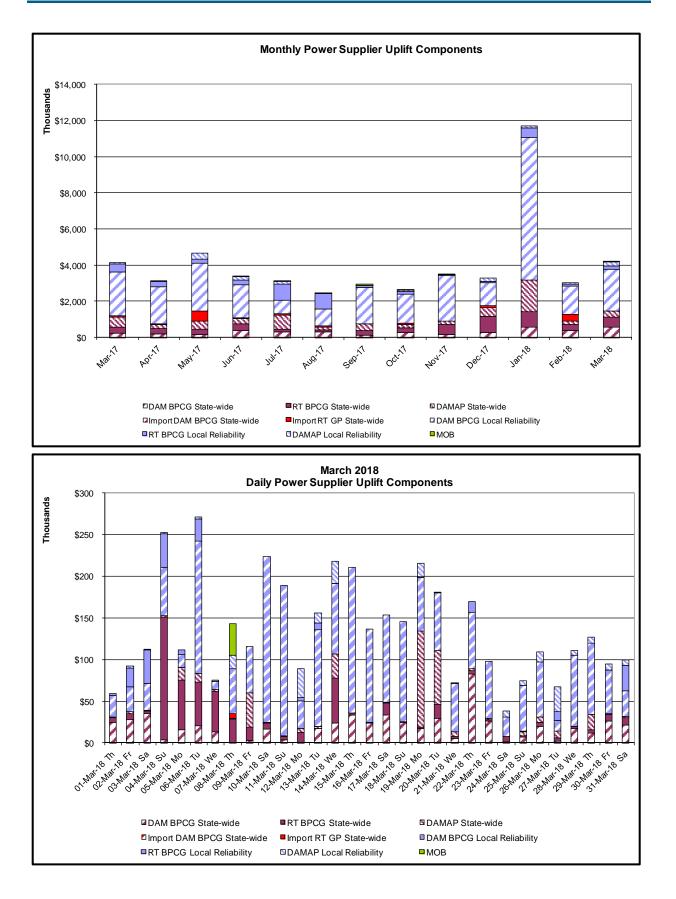




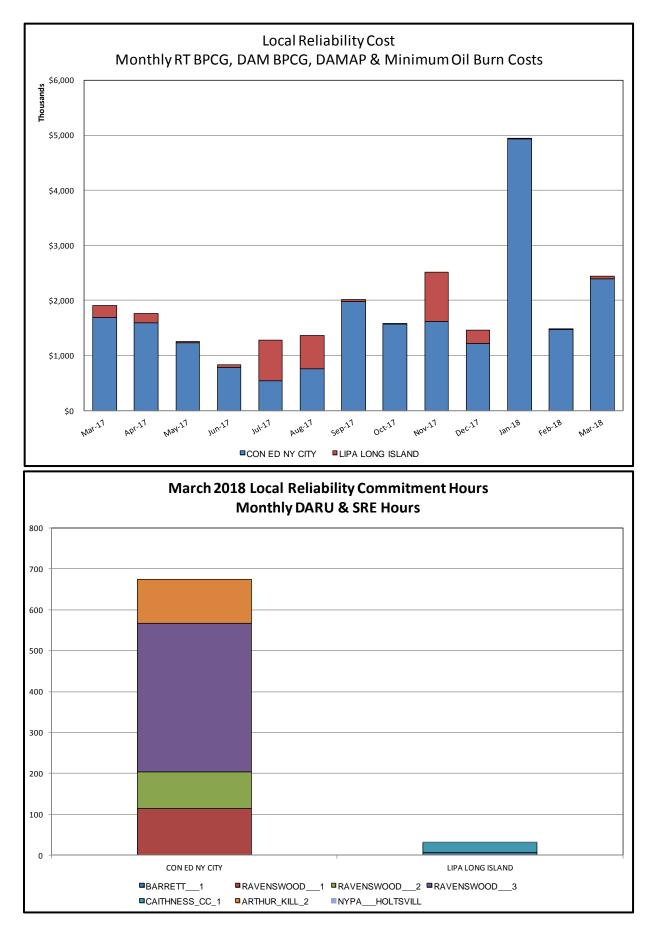


Day	-Ahead Market Co	ngestion Residual Categories	
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	<u>Event Examples</u> DAM scheduled outage for equipment modeled in- service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

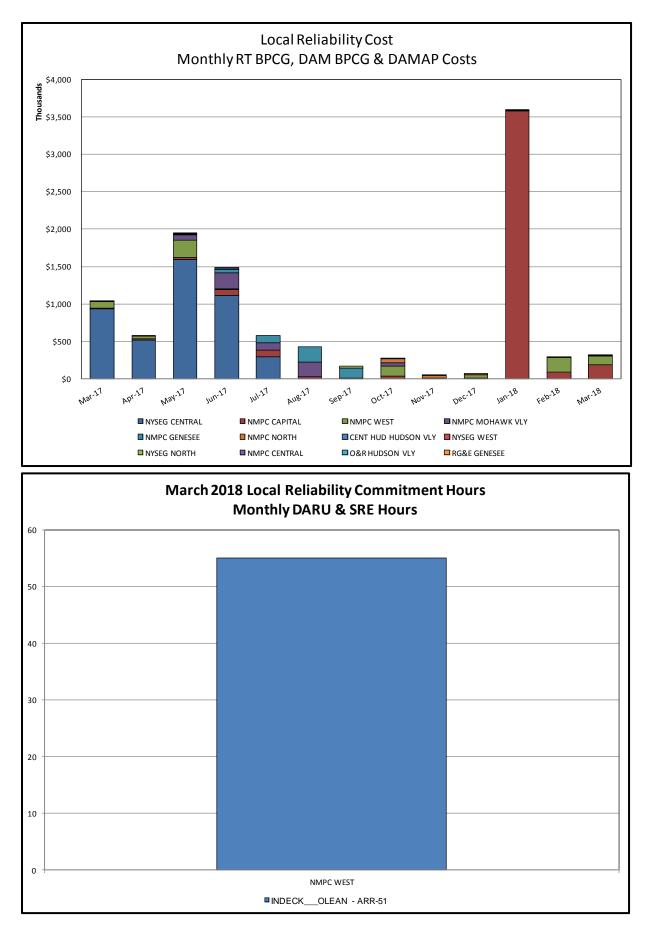




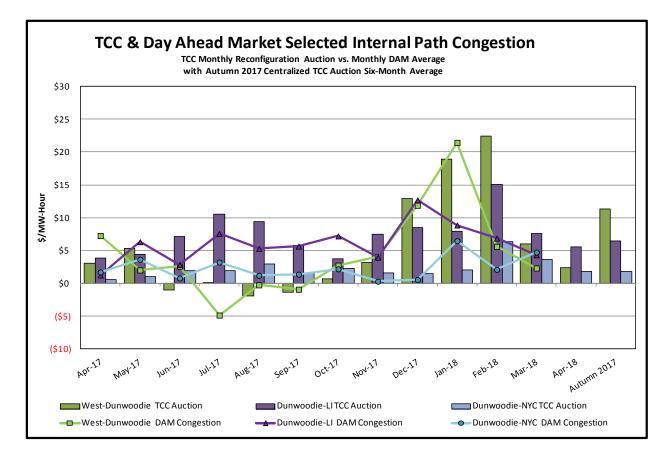


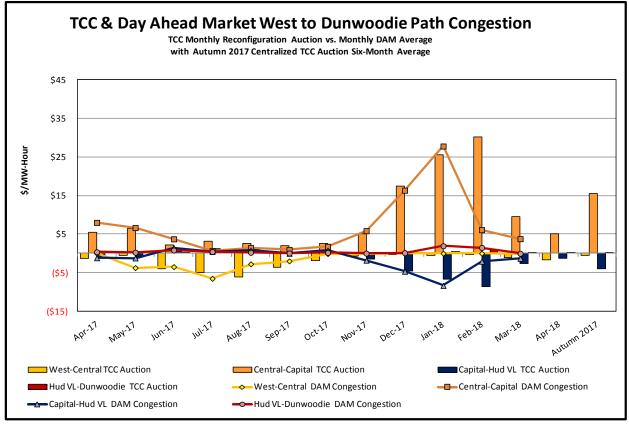




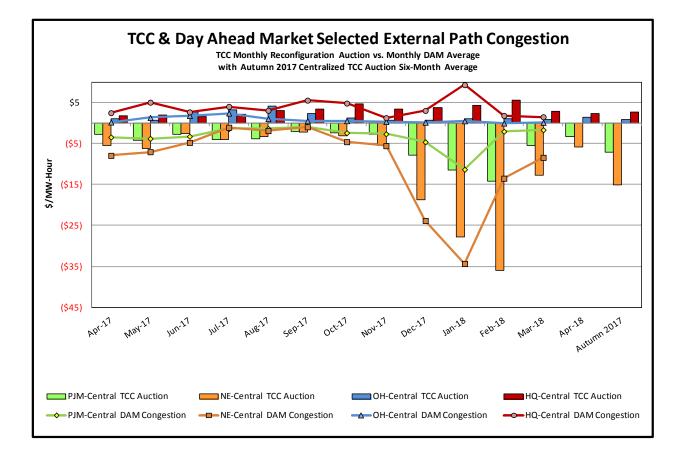




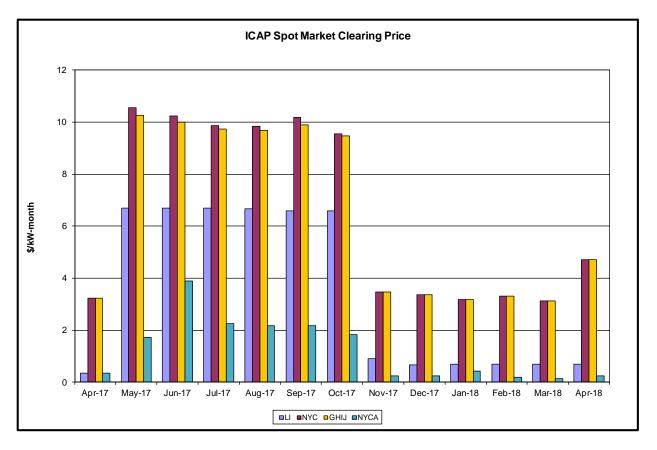


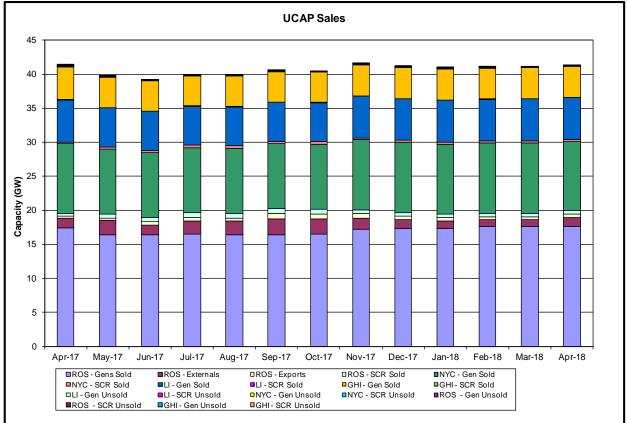






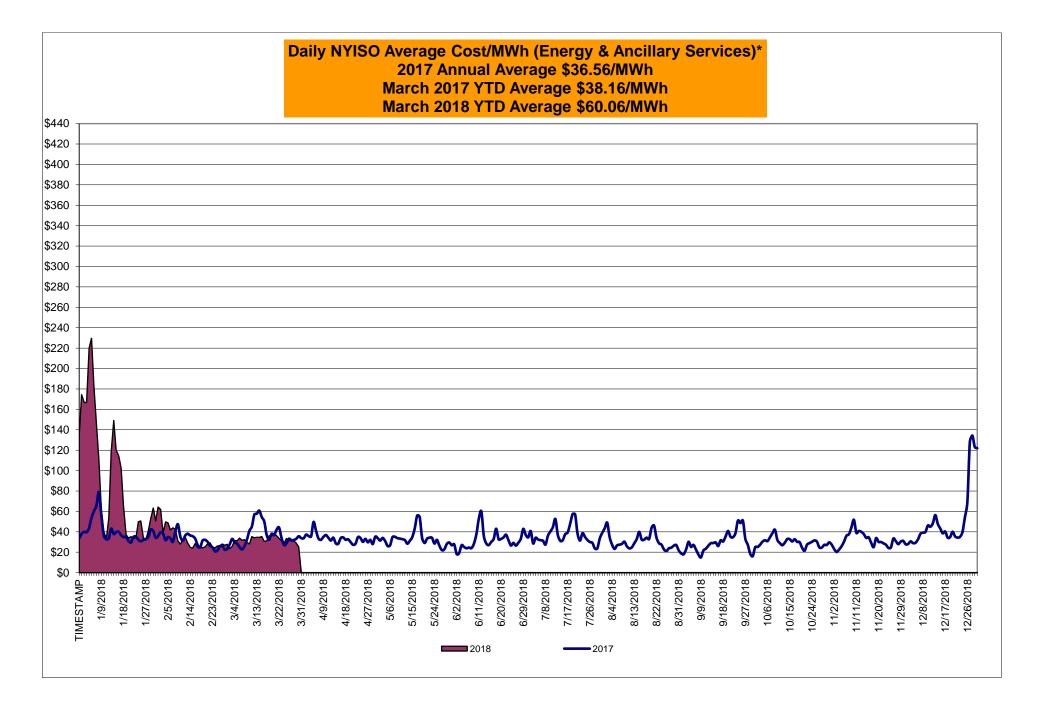






Market Performance Highlights March 2018

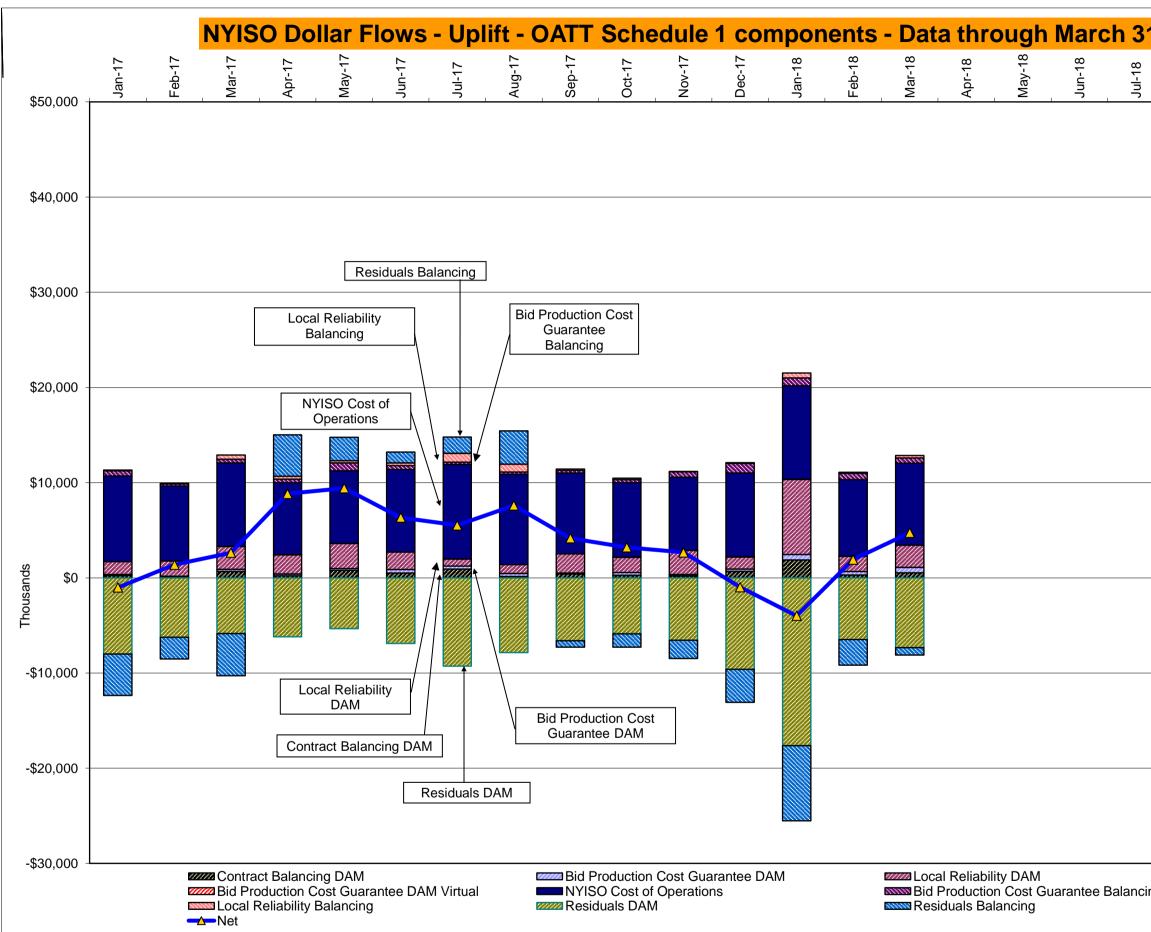
- LBMP for March is \$29.91/MWh; lower than \$33.83/MWh in February 2018 and \$34.97/MWh in March 2017.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to February.
- March 2018 average year-to-date monthly cost of \$60.06/MWh is a 59% increase from \$37.81/MWh in March 2017.
- Average daily sendout is 413 GWh/day in March; lower than 426 GWh/day in February 2018 and 419 GWh/day in March 2017.
- Natural gas prices were lower and distillate prices were mixed compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$2.85/MMBtu, down from \$3.14/MMBtu in February.
 - Natural gas prices are down 18.2% year-over-year.
 - Jet Kerosene Gulf Coast was \$13.76/MMBtu, up from \$13.72/MMBtu in February.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$13.78/MMBtu, down from \$13.86/MMBtu in February.
 - Distillate prices are up 19.3% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.31)/MWh; higher than (\$0.50)/MWh in February.
 - Local Reliability Share is \$0.19/MWh, higher than \$0.14/MWh in February.
 - Statewide Share is (\$0.51)/MWh, higher than (\$0.64)/MWh in February.
 - TSA \$ per NYC MWh is \$0.04/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than February.



* Excludes ICAP payments.

Irom the LBMP Customer point of view												
2018	January	February	March	<u>April</u>	May	<u>June</u>	July	August	<u>September</u>	October	November	December
LBMP	99.55	33.83	29.91	<u>//pm</u>	way		oury	Mugust			November	December
NTAC	0.71	0.58	0.88									
Reserve	0.92	0.65	0.64									
Regulation	0.15	0.15	0.16									
NYISO Cost of Operations	0.65	0.65	0.66									
FERC Fee Recovery	0.08	0.10	0.09									
Uplift	(0.92)	(0.50)	(0.31)									
Uplift: Local Reliability Share	0.59	0.14	0.19									
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)									
Voltage Support and Black Start	0.40	0.41	0.42									
Avg Monthly Cost	101.54	35.87	32.45									
Avg YTD Cost	101.54	72.85	60.06									
Avg TTD Cost	101.54	72.00	00.00									
TSA \$ per NYC MWh	0.00	0.00	0.04									
2017	January	February	March	<u>April</u>	May	June	<u>July</u>	August	<u>September</u>	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 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

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



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.

1,	2018					
	2018 Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	
1	Au	Se	õ	No		
ng						

NYISO Markets Transactions

<u>2018</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	15,153,751	12,643,854	13,521,386									
DAM LSE Internal LBMP Energy Sales	59%	57%	58%									
DAM External TC LBMP Energy Sales	4%	3%	2%									
DAM Bilateral - Internal Bilaterals	29%	31%	32%									
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%									
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%									
DAM Bilateral - Wheel Through Bilaterals	1%	2%	2%									
Balancing Energy Market MWh	-149,619	-299,377	-386,811									
Balancing Energy LSE Internal LBMP Energy Sales	-147%	-101%	-128%									
Balancing Energy External TC LBMP Energy Sales	74%	24%	37%									
Balancing Energy Bilateral - Internal Bilaterals	9%	24 <i>%</i> 5%	0%									
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	9 % 0%	0%	0%									
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%	0 % 9%	6%									
		-36%	-15%									
Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-30%	-15%									
Transactions Summary	000/	= 0.07	= 0.07									
LBMP	63%	59%	59%									
Internal Bilaterals	30%	32%	33%									
Import Bilaterals	5%	5%	6%									
Export Bilaterals	2%	2%	2%									
Wheels Through	1%	1%	1%									
Market Share of Total Load												
Day Ahead Market	101.0%	102.4%	102.9%									
Balancing Energy +	-1.0%	-2.4%	-2.9%									
Total MWH	15,004,132	12,344,477	13,134,575									
Average Daily Energy Sendout/Month GWh	463	426	413									
2017 Day Ahead Market MWh	<u>January</u> 14,135,019	<u>February</u> 12,565,206	<u>March</u> 13,983,865	<u>April</u> 12,061,475	<u>May</u> 12,966,981	<u>June</u> 14,406,180	<u>July</u> 16,505,801	<u>August</u> 15,948,927	<u>September</u> 14,100,695	<u>October</u> 13,252,368	<u>November</u> 13,042,826	<u>December</u> 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 - Importi/Non-LBMP Market Bilaterals	5%				0070	0170					0470	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals		5%	5%	6%	4%	5%	4%	5%	5%	5%	5%	
DAM Bilateral - Wheel Through Bilaterals		5% 2%	5% 2%	6% 2%	4% 2%	5% 2%	4% 1%	5% 2%	5% 2%	5% 2%	5% 2%	
	2%	2%	2%	2%	2%	2%	1%	2%	2%	2%	2%	2%
Balancing Energy Market MWb	2% 2%	2% 2%	2% 2%	2% 2%	2% 2%	2% 2%	1% 3%	2% 3%	2% 4%	2% 2%	2% 3%	2% 2%
Balancing Energy Market MWh	2% 2% -256,448	2% 2% -407,284	2% 2% -509,053	2% 2% -466,426	2% 2% -666,048	2% 2% -564,312	1% <u>3%</u> -747,473	2% 3% -853,898	2% 4% -633,990	2% 2% -510,721	2% 3% -410,072	2% 2% -254,003
Balancing Energy LSE Internal LBMP Energy Sales	2% 2% -256,448 -157%	2% 2% -407,284 -132%	2% 2% -509,053 -148%	2% <u>2%</u> -466,426 -115%	2% 2% -666,048 -120%	2% <u>2%</u> -564,312 -114%	1% <u>3%</u> -747,473 -100%	2% <u>3%</u> -853,898 -87%	2% 4% -633,990 -76%	2% 2% -510,721 -102%	2% <u>3%</u> -410,072 -108%	2% <u>2%</u> -254,003 -99%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales	2% 2% -256,448 -157% 64%	2% 2% -407,284 -132% 39%	2% 2% -509,053 -148% 44%	2% 2% -466,426 -115% 22%	2% 2% -666,048 -120% 28%	2% 2% -564,312 -114% 23%	1% <u>3%</u> -747,473 -100% 18%	2% 3% -853,898 -87% 13%	2% 4% -633,990 -76% 12%	2% 2% -510,721 -102% 26%	2% 3% -410,072 -108% 45%	2% 2% -254,003 -99% 25%
Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	2% 2% -256,448 -157% 64% 15%	2% 2% -407,284 -132% 39% 8%	2% 2% -509,053 -148% 44% 12%	2% 2% -466,426 -115% 22% 5%	2% 2% -666,048 -120% 28% 1%	2% 2% -564,312 -114% 23% 4%	1% <u>3%</u> -747,473 -100% 18% 3%	2% <u>3%</u> -853,898 -87% 13% 2%	2% 4% -633,990 -76% 12% 3%	2% 2% -510,721 -102% 26% 5%	2% <u>3%</u> -410,072 -108% 45% 5%	2% <u>2%</u> -254,003 -99% 25% -1%
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	2% 2% -256,448 -157% 64% 15% 0%	2% 2% -407,284 -132% 39% 8% 4%	2% 2% -509,053 -148% 44% 12% 0%	2% 2% -466,426 -115% 22% 5% 0%	2% 2% -666,048 -120% 28% 1% 0%	2% 2% -564,312 -114% 23% 4% 0%	1% <u>3%</u> -747,473 -100% 18% 3% 0%	2% 3% -853,898 -87% 13% 2% 0%	2% 4% -633,990 -76% 12% 3% 0%	2% 2% -510,721 -102% 26% 5% 0%	2% 3% -410,072 -108% 45% 5% 0%	2% 2% -254,003 -99% 25% -1% 0%
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	2% 2% -256,448 -157% 64% 15% 0% 10%	2% 2% -407,284 -132% 39% 8% 4% 7%	2% 2% -509,053 -148% 44% 12% 0% 5%	2% 2% -466,426 -115% 22% 5% 0% 4%	2% 2% -666,048 -120% 28% 1% 0% 3%	2% 2% -564,312 -114% 23% 4% 0% 3%	1% <u>3%</u> -747,473 -100% 18% 3% 0% 1%	2% <u>3%</u> -853,898 -87% 13% 2% 0% 1%	2% 4% -633,990 -76% 12% 3% 0% 1%	2% 2% -510,721 -102% 26% 5% 0% 4%	2% <u>3%</u> -410,072 -108% 45% 5% 0% 7%	2% 2% -254,003 -99% 25% -1% 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	2% 2% -256,448 -157% 64% 15% 0%	2% 2% -407,284 -132% 39% 8% 4%	2% 2% -509,053 -148% 44% 12% 0%	2% 2% -466,426 -115% 22% 5% 0%	2% 2% -666,048 -120% 28% 1% 0%	2% 2% -564,312 -114% 23% 4% 0%	1% <u>3%</u> -747,473 -100% 18% 3% 0%	2% 3% -853,898 -87% 13% 2% 0%	2% 4% -633,990 -76% 12% 3% 0%	2% 2% -510,721 -102% 26% 5% 0%	2% 3% -410,072 -108% 45% 5% 0%	2% 2% -254,003 -99% 25% -1% 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 Transactions Summary	2% 2% -256,448 -157% 64% 15% 0% 10% -32%	2% 2% -407,284 -132% 39% 8% 4% 7% -26%	2% 2% -509,053 -148% 44% 12% 0% 5% -13%	2% 2% -466,426 -115% 22% 5% 0% 4% -15%	2% 2% -666,048 -120% 28% 1% 0% 3% -12%	2% 2% -564,312 -114% 23% 4% 0% 3% -16%	1% <u>3%</u> -747,473 -100% 18% 3% 0% 1% -22%	2% 3% -853,898 -87% 13% 2% 0% 1% -29%	2% 4% -633,990 -76% 12% 3% 0% 1% -40%	2% 2% -510,721 -102% 26% 5% 0% 4% -33%	2% 3% -410,072 -108% 45% 5% 0% 7% -49%	2% 2% -254,003 -99% 25% -1% 0% 9% -34%
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	2% 2% -256,448 -157% 64% 15% 0% 10% -32%	2% 2% -407,284 -132% 39% 8% 4% 7% -26%	2% 2% -509,053 -148% 44% 12% 0% 5% -13%	2% 2% -466,426 -115% 22% 5% 0% 4% -15%	2% 2% -666,048 -120% 28% 1% 0% 3% -12%	2% 2% -564,312 -114% 23% 4% 0% 3% -16%	1% <u>3%</u> -747,473 -100% 18% 3% 0% 1% -22%	2% 3% -853,898 -87% 13% 2% 0% 1% -29%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58%	2% 2% -510,721 -102% 26% 5% 0% 4% -33%	2% 3% -410,072 -108% 45% 5% 0% 7% -49%	2% 2% -254,003 -99% 25% -1% 0% 9% -34%
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	2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33%	2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34%	2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36%	2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37%	2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34%	2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32%	1% <u>3%</u> -747,473 -100% 18% 3% 0% 1% -22% 62% 30%	2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33%	2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36%	2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36%	2% 2% -254,003 -99% 25% -1% 0% 9% -34% 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 Transactions Summary LBMP Internal Bilaterals Import Bilaterals	2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5%	2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5%	2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5%	2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6%	2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4%	2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5%	1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5%	2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5%	2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5%	2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5%	2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 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 Balancing Energy Bilateral - Wheel Through Bilaterals Internal Bilaterals Import Bilaterals Export Bilaterals	2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2%	2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2%	2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2%	2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2%	2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2%	2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2%	1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2%	2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2%	2% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2%	2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2%	2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 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 Transactions Summary LBMP Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through	2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5%	2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5%	2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5%	2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6%	2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4%	2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5%	1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5%	2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5%	2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5%	2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5%	2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 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 Balancing Energy Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load	2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2%	2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2%	2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 2%	2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2%	2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
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 Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market	2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2%	2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% 2%	2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% 2%	2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 2%	2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2% 2%	2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 2%	2% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
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 Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market Balancing Energy +	2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2% 2% 2%	2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% 2% 2% 2%	2% 2% -509,053 -148% 44% 12% 0% 5% 5% -13% 55% 36% 5% 2% 2% 2% 2% 2% 2%	2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 2% 2% 2%	2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2% 2% 2%	2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1% 1% 104.1% -4.1%	1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2% 2% 2% 2%	2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2% 2% 2%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 2% 2% 2%	2% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 5% 36% 5% 2% 1% 104.0% -4.0%	2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1% 103.2% -3.2%	2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1% 101.7% -1.7%
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 Internal Bilaterals Import Bilaterals Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market	2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2%	2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% 2%	2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% 2%	2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 2%	2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2% 2%	2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 2%	2% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	2% 2% -254,003 -99% 25% -1% 0%

+ 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: 4/9/2018 12:04 PM

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

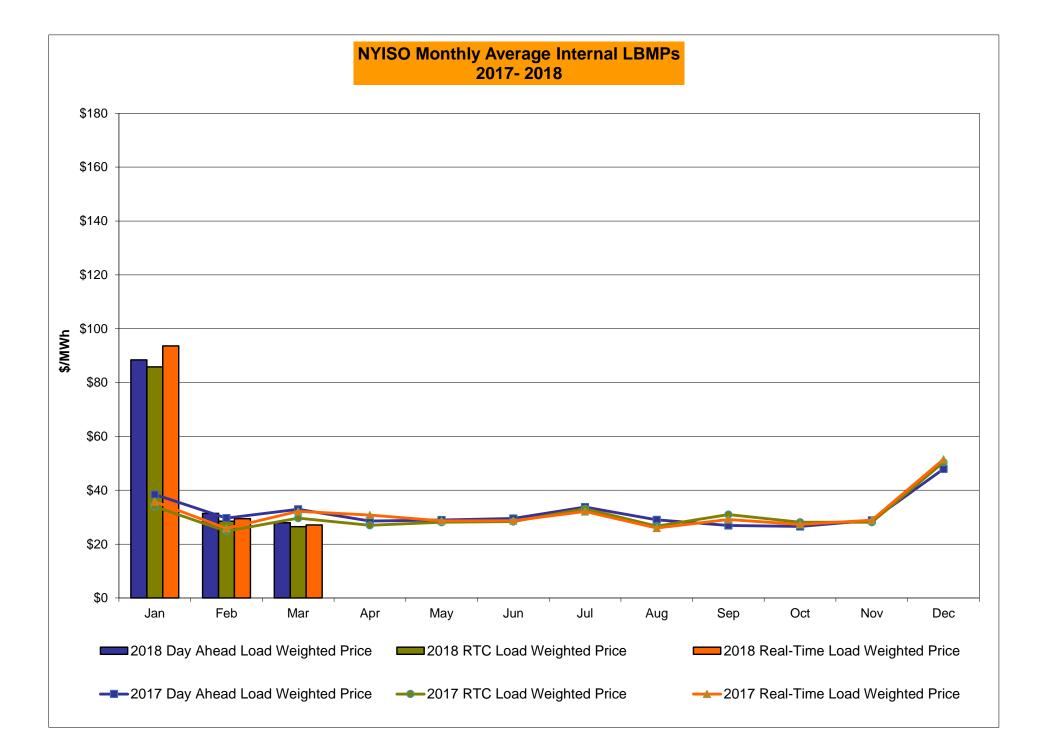
NYISO Markets 2018 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	July	August September	October November December
DAY AHEAD LBMP									
Price *	\$83.53	\$30.37	\$27.37						
Standard Deviation	\$58.94	\$12.38	\$6.34						
Load Weighted Price **	\$88.42	\$31.44	\$27.95						
RTC LBMP									
Price *	\$81.65	\$27.73	\$25.99						
Standard Deviation	\$60.83	\$11.96	\$8.99						
Load Weighted Price **	\$85.85	\$28.54	\$26.46						
REAL TIME LBMP									
Price *	\$87.94	\$28.50	\$26.49						
Standard Deviation	\$87.41	\$17.36	\$12.25						
Load Weighted Price **	\$93.59	\$29.49	\$27.09						
Average Daily Energy Sendout/Month GWh	463	426	413						

NYISO Markets 2017 Energy Statistics

	<u>January</u>	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>
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

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

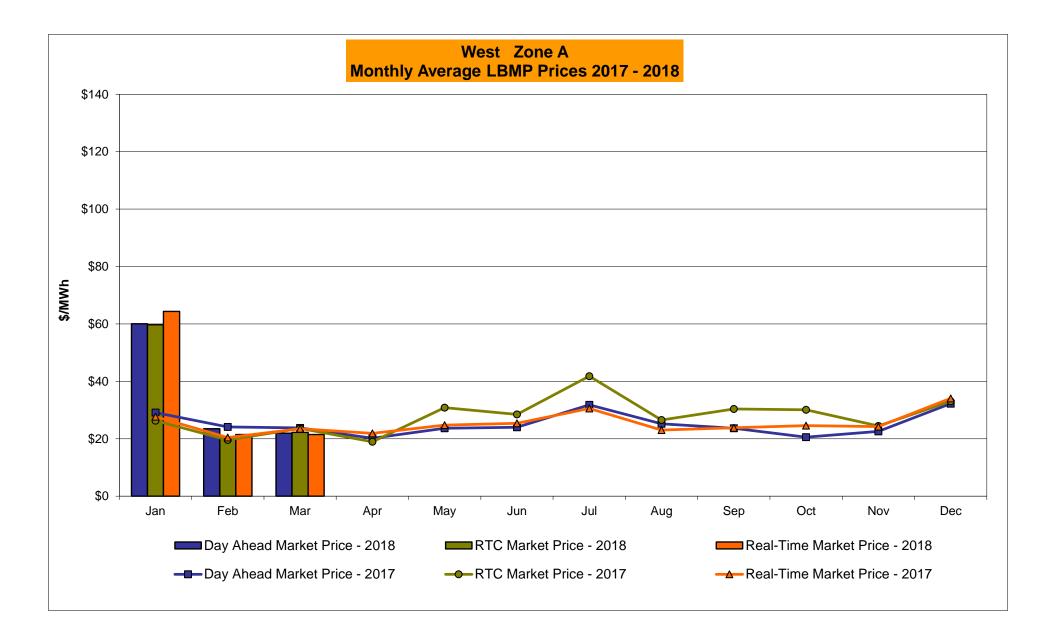


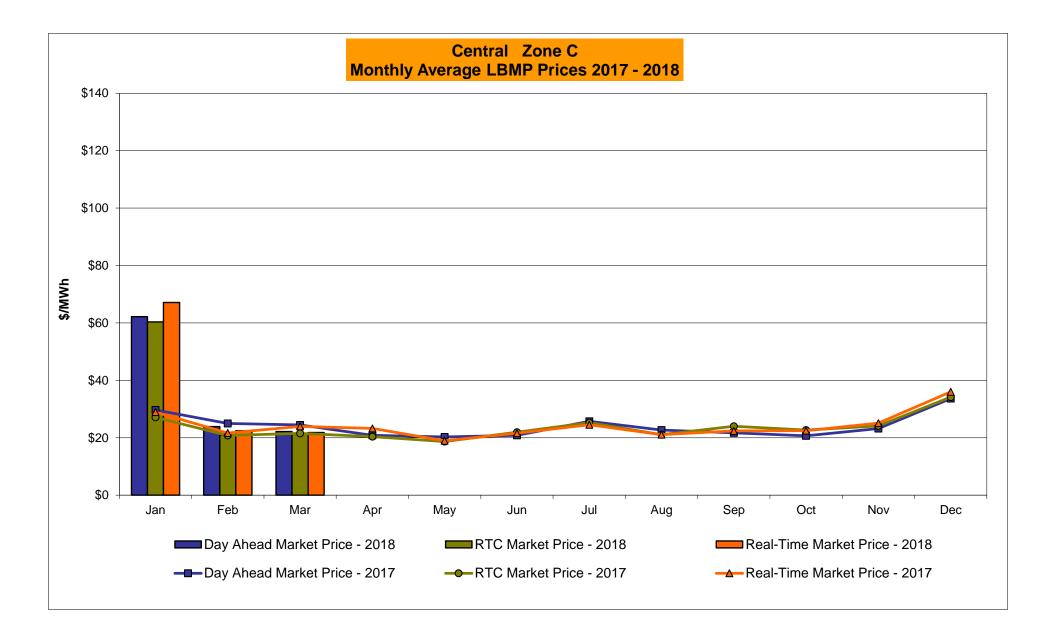
March 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

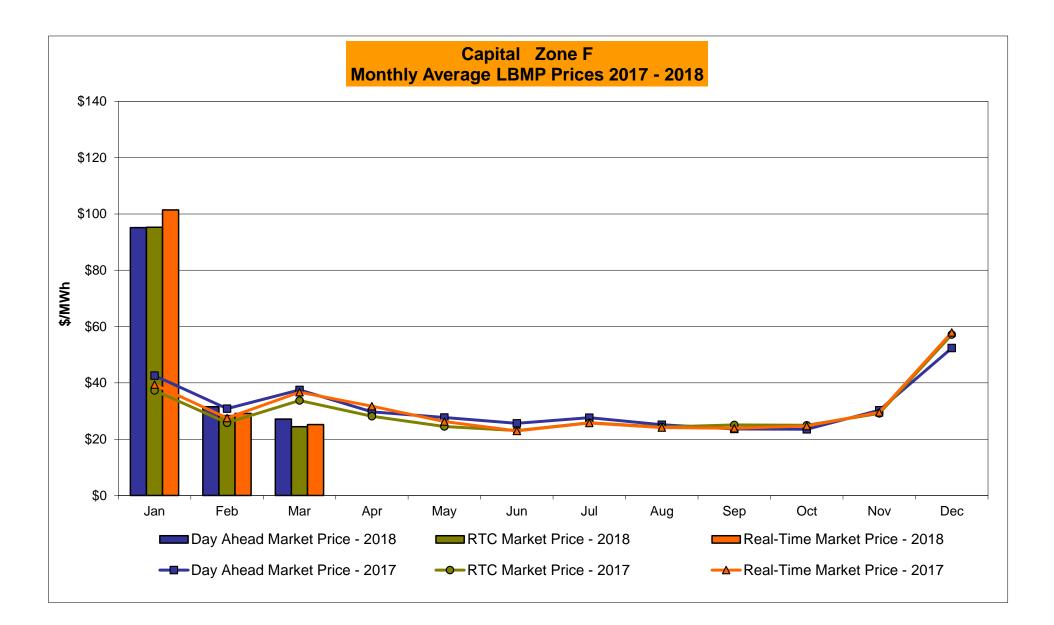
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	<u>Zone I</u>	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	21.91	21.31	19.22	22.14	22.12	27.13	26.46	26.69	26.66	31.98	31.89
Standard Deviation	6.47	6.12	6.82	6.34	6.42	6.15	6.00	6.08	6.05	7.44	7.63
RTC LBMP											
Unweighted Price *	22.20	20.30	19.37	21.33	21.32	24.45	24.32	24.48	24.49	29.92	31.19
Standard Deviation	18.39	8.53	9.59	9.00	8.79	8.15	8.28	8.33	8.28	13.37	19.47
REAL TIME LBMP											
Unweighted Price *	21.45	20.95	19.96	21.84	21.96	25.21	25.07	25.22	25.23	31.24	30.62
Standard Deviation	12.63	11.63	12.25	11.98	12.02	13.90	13.04	13.13	13.06	14.64	16.25

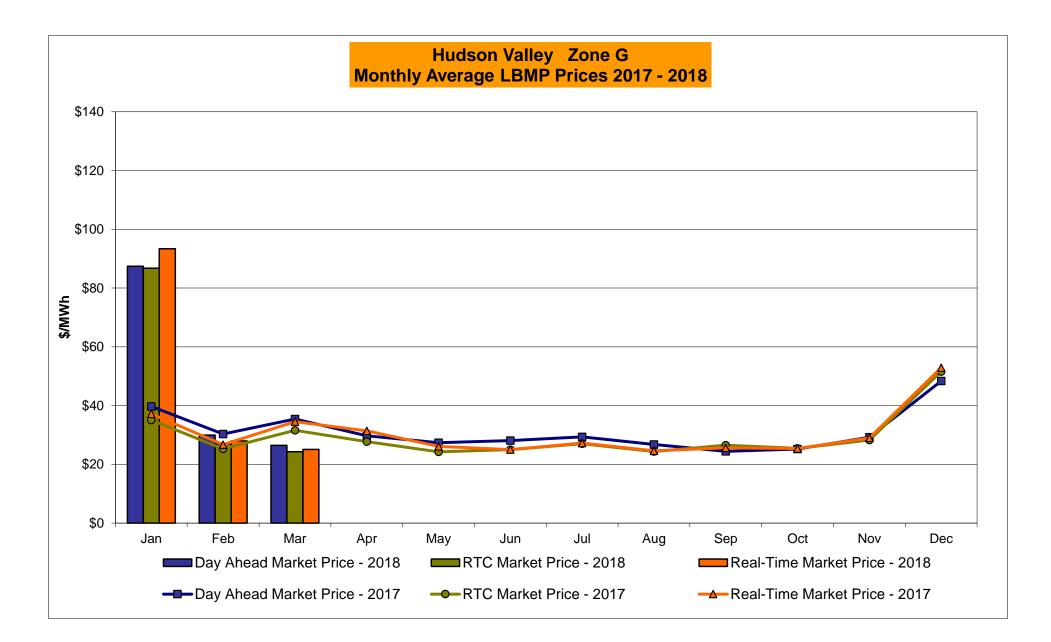
		HYDRO	HYDRO			CROSS	NODTUDODT				
	ONTARIO	QUEBEC	QUEBEC		NEW						_ .
	IESO	(Wheel)	(Import/Export)	PJM	ENGLAND	CABLE	NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>
	Zone O	Zone M	Zone M	<u>Zone P</u>	Zone N	Line	Line	Line	Line	Line	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	20.92	19.44	19.41	24.49	31.64	31.24	33.61	29.70	31.84	28.75	18.83
Standard Deviation	5.73	6.52	6.54	5.89	9.73	7.22	10.62	6.75	7.40	6.50	6.66
RTC LBMP											
Unweighted Price *	19.27	18.85	17.95	23.06	32.26	31.12	30.50	29.15	28.23	25.52	18.92
Standard Deviation	8.79	9.65	10.30	8.31	14.18	19.78	18.89	15.99	29.76	8.02	9.30
REAL TIME LBMP											
Unweighted Price *	20.06	19.69	19.02	23.22	29.07	30.80	31.28	29.01	24.64	26.27	15.98
Standard Deviation	11.38	11.75	11.94	12.59	13.80	18.14	18.72	15.60	46.74	12.86	10.97

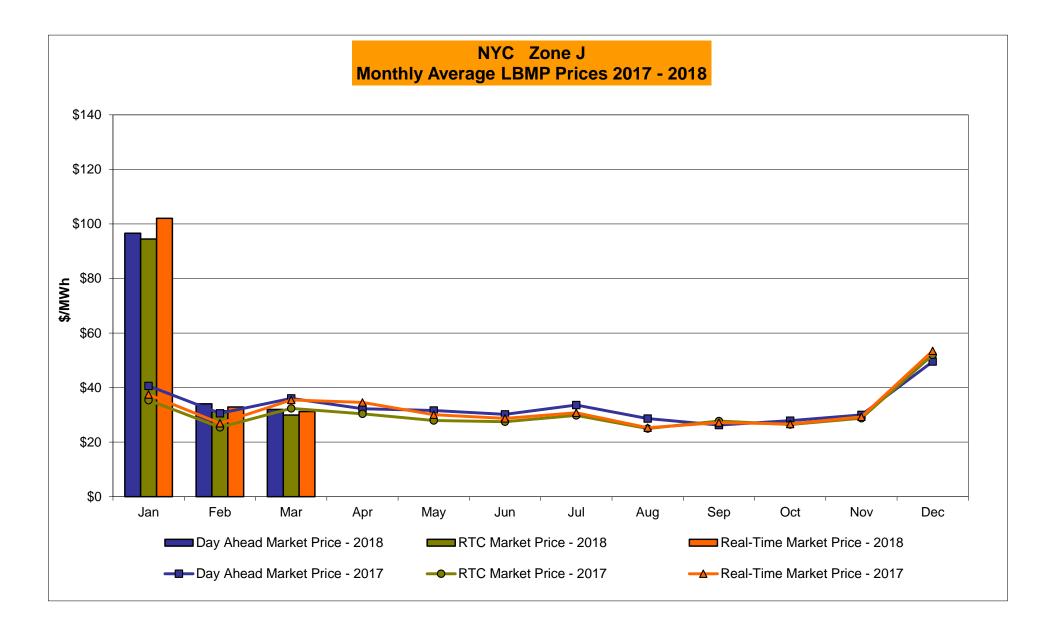
* Straight LBMP averages

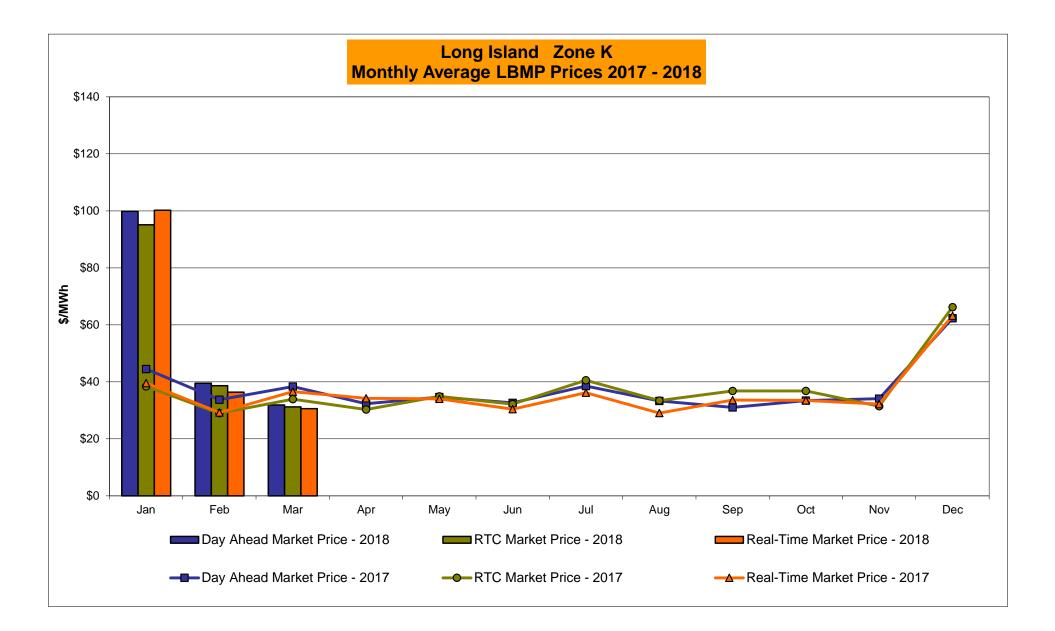


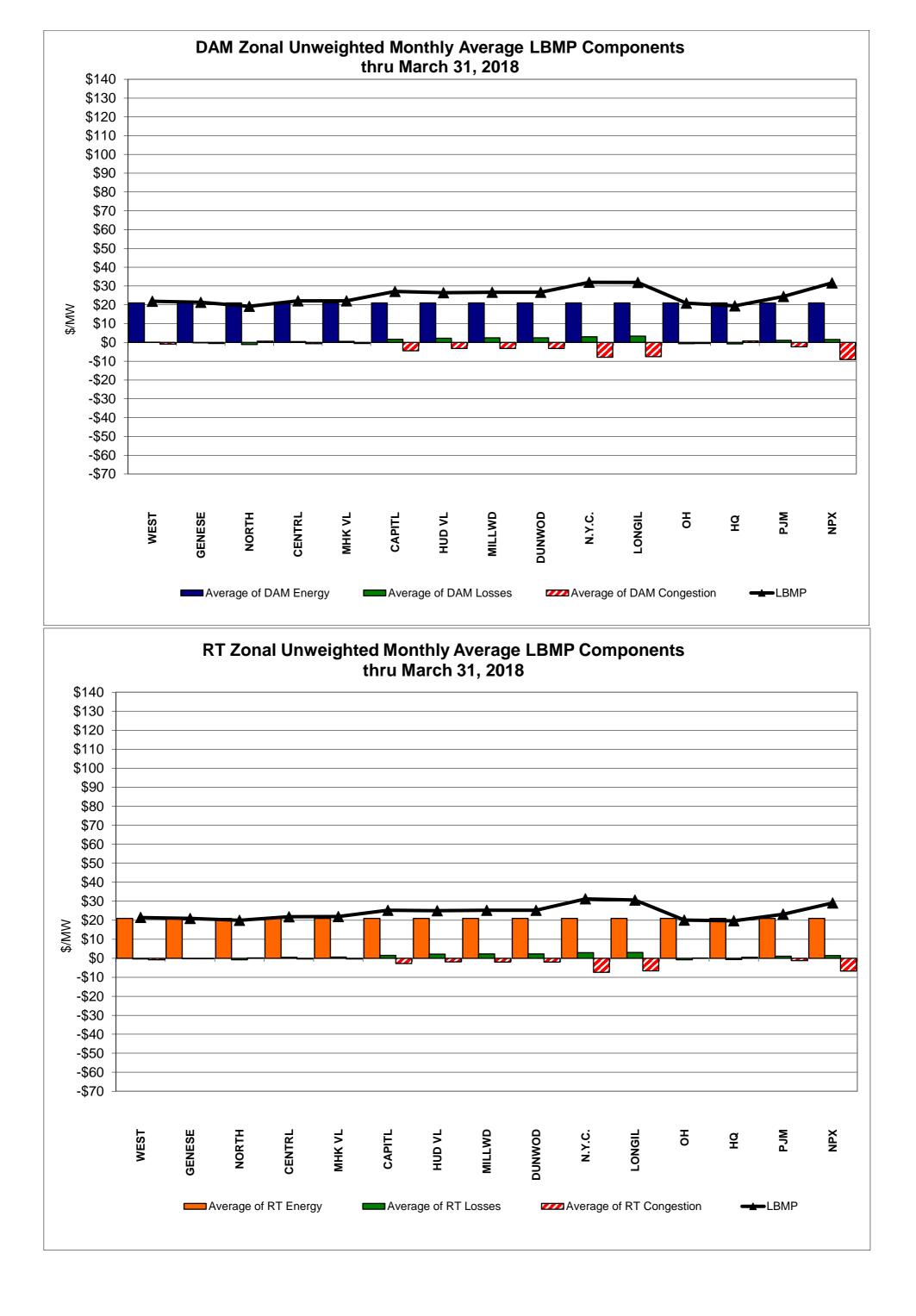




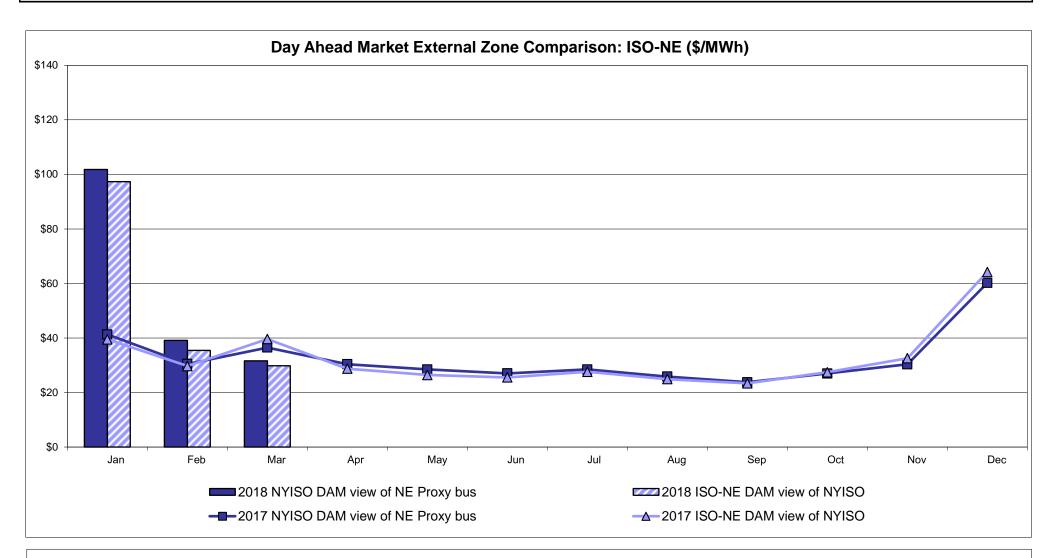


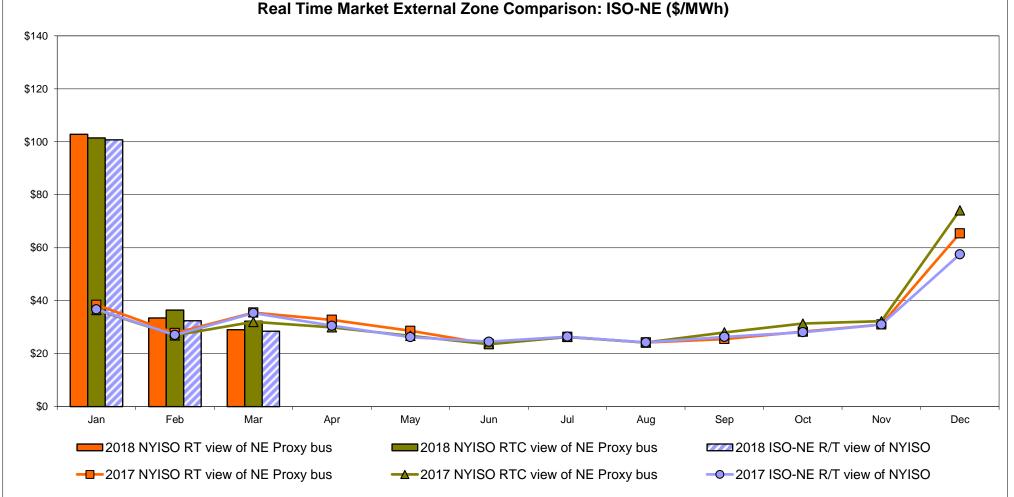


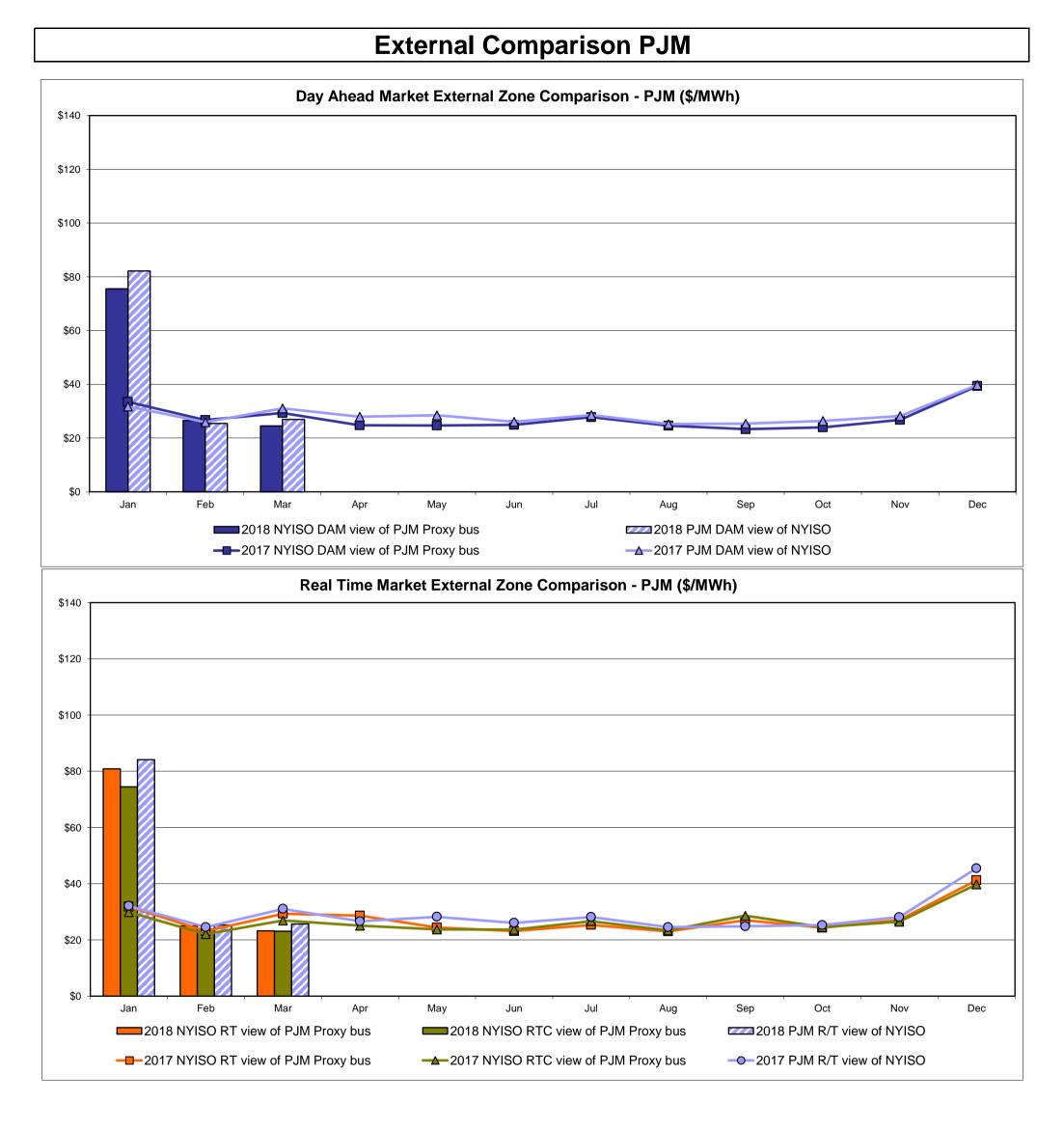




External Comparison ISO-New England

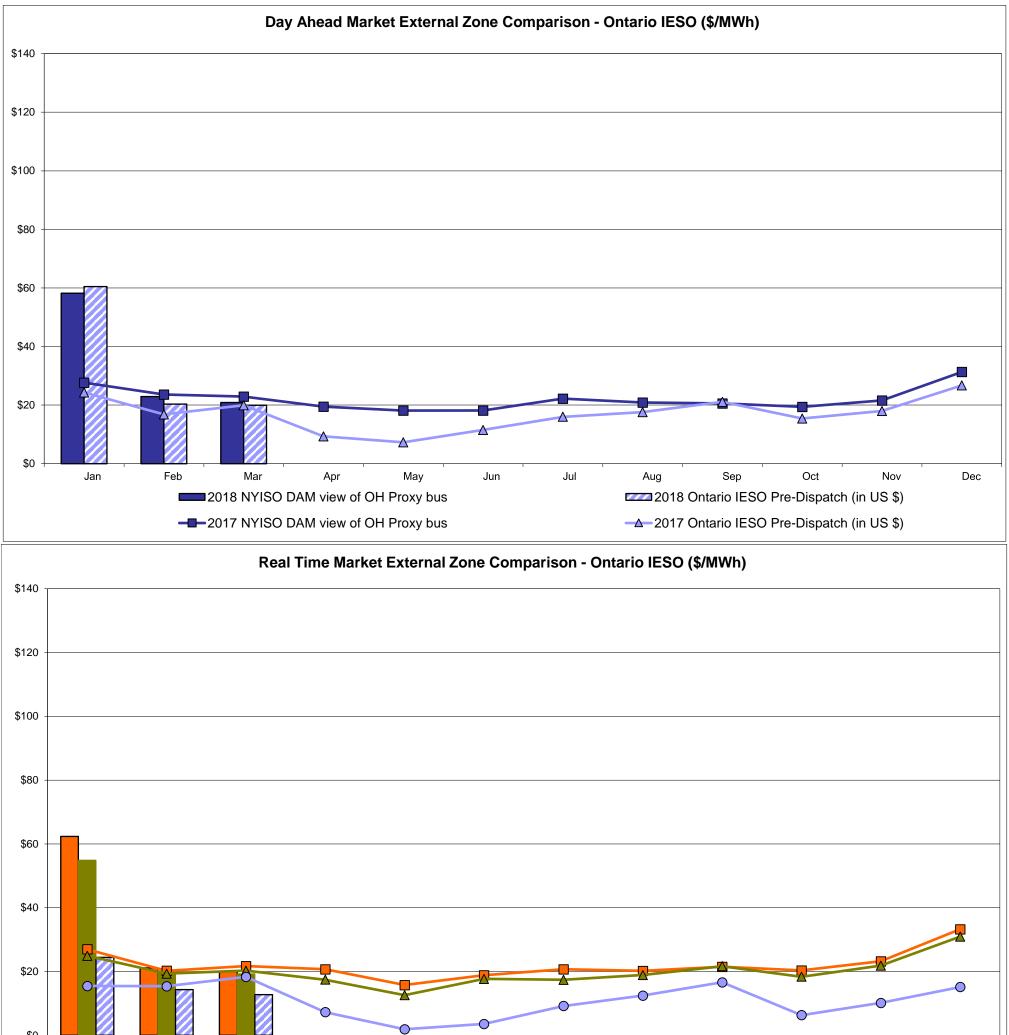






Market Mitigation and Analysis Prepared: 4/9/2018 12:03 PM

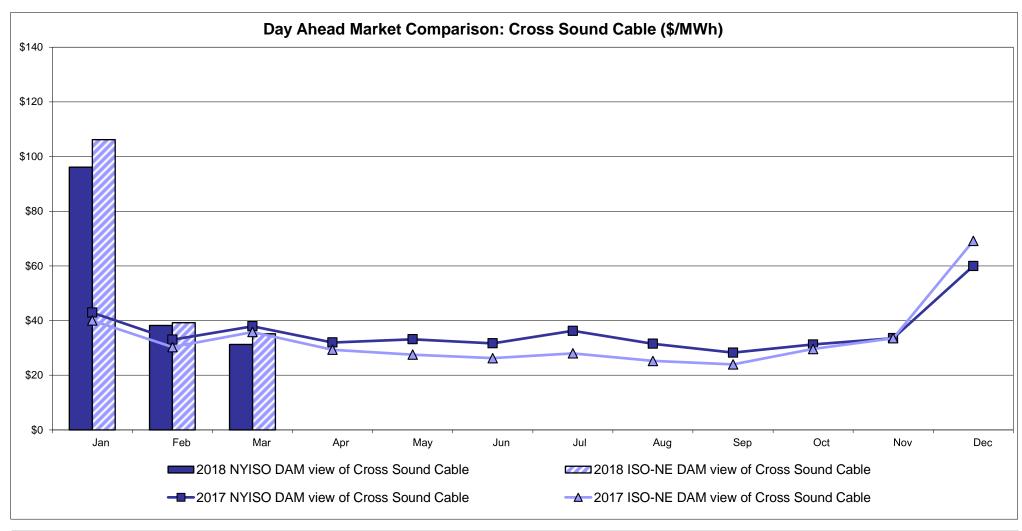
External Comparison Ontario IESO



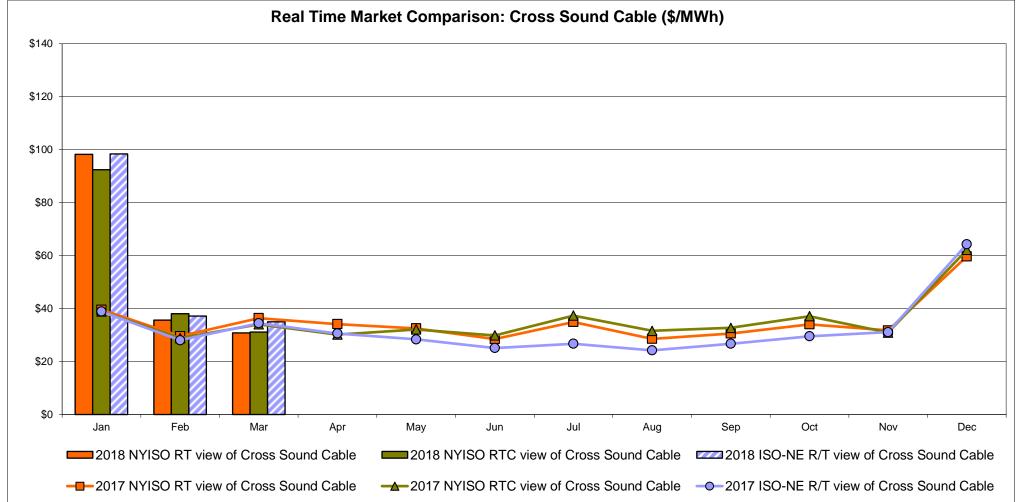
\$0 +				-					-	-		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2019	VYISO RT vie		/ hue	2019		view of OH P	rovy buc	2019 (Ontorio IESO	HOEP (in US	ε Φ)
	20101			/ DUS	20101			TOXY DUS	2010			φ)
	- D -2017 I	VYISO RT vie	w of OH Proxy	/ hus		JYISO RTC	view of OH P	roxy bus		Ontario IESO	HOEP (in US	; \$)
	_ 2017 1								0 2017			, Ψ)

Notes: Exchange factor used for March 2018 was 0.773215804531045 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

Market Mitigation and Analysis Prepared: 4/9/2018 12:03 PM



External Controllable Line: Cross Sound Cable (New England)

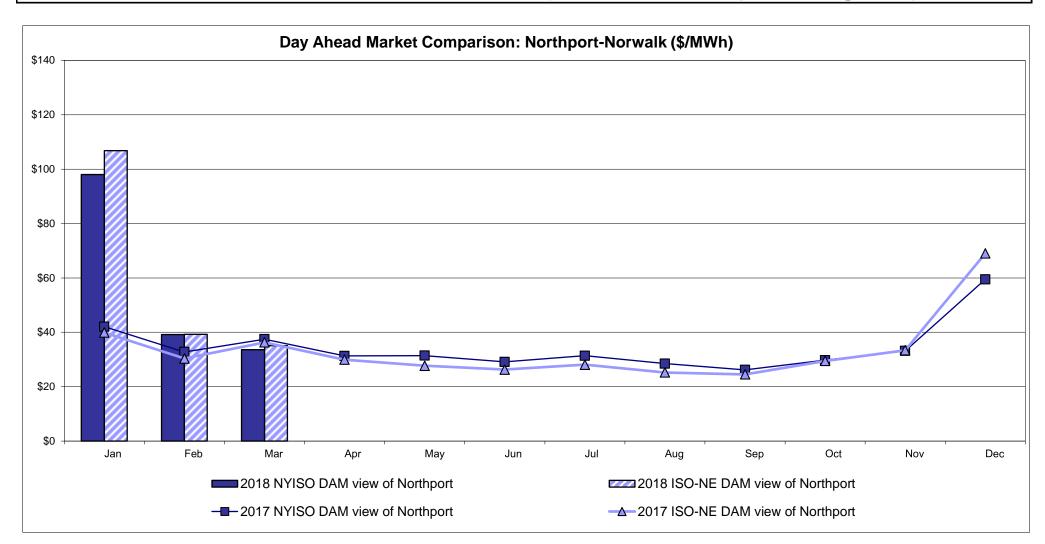


Note:

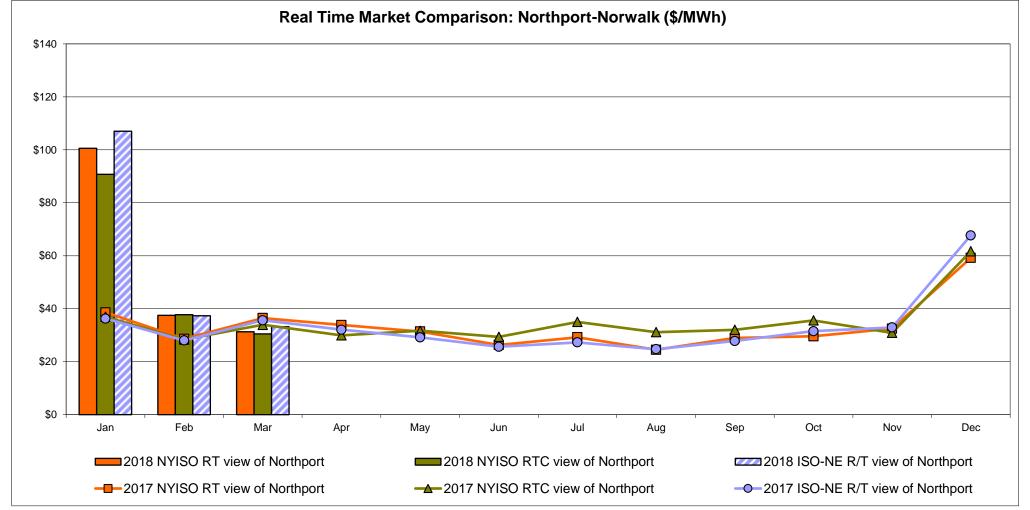
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



External Controllable Line: Northport - Norwalk (New England)



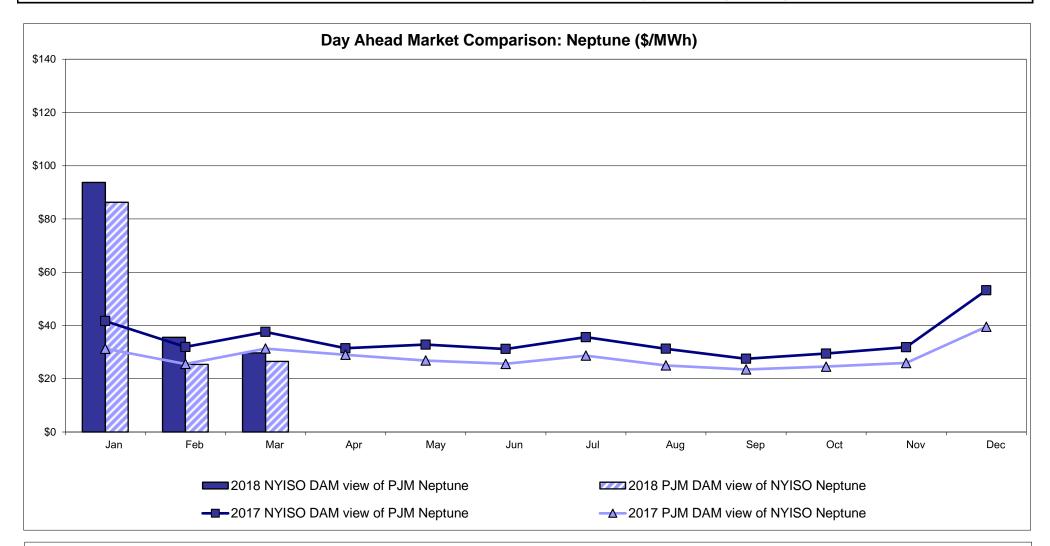
Note:

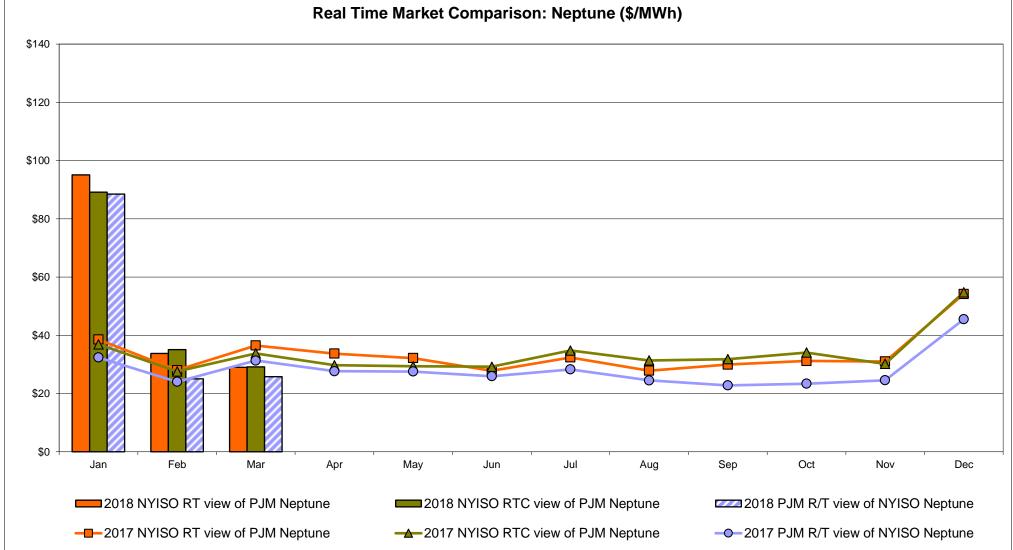
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

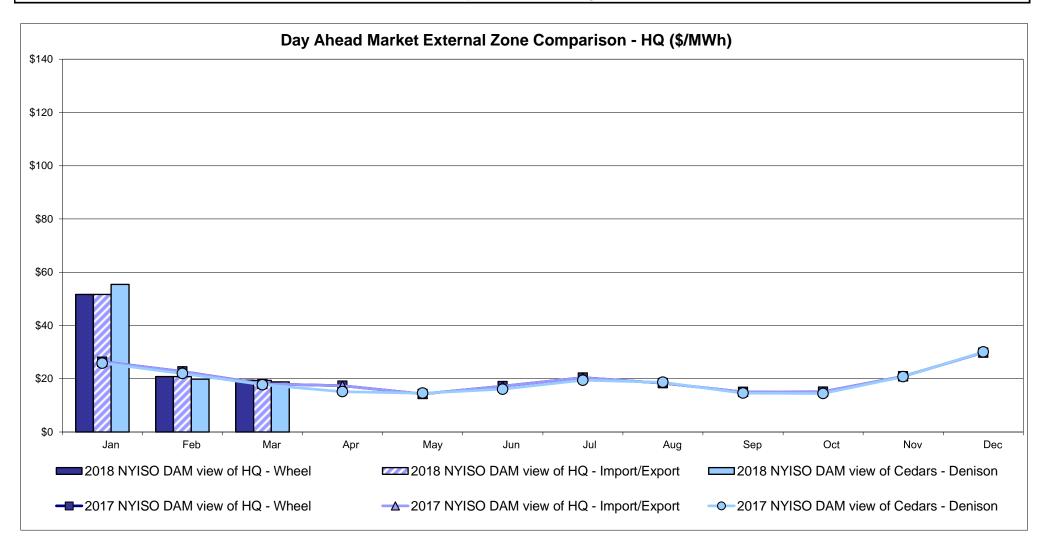
The DAM and R/T prices at the 1385 interface are used for NYISO.

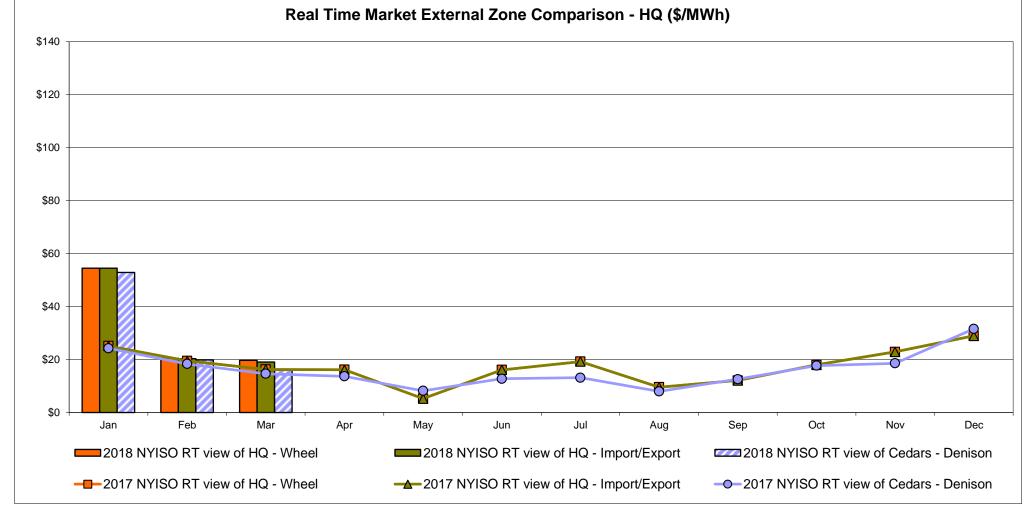
External Controllable Line: Neptune (PJM)





External Comparison Hydro-Quebec

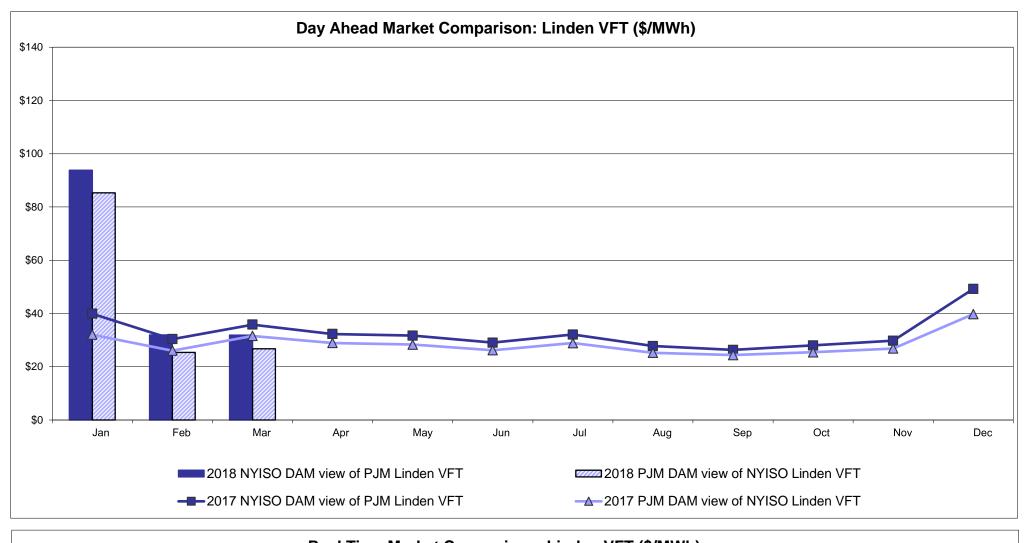


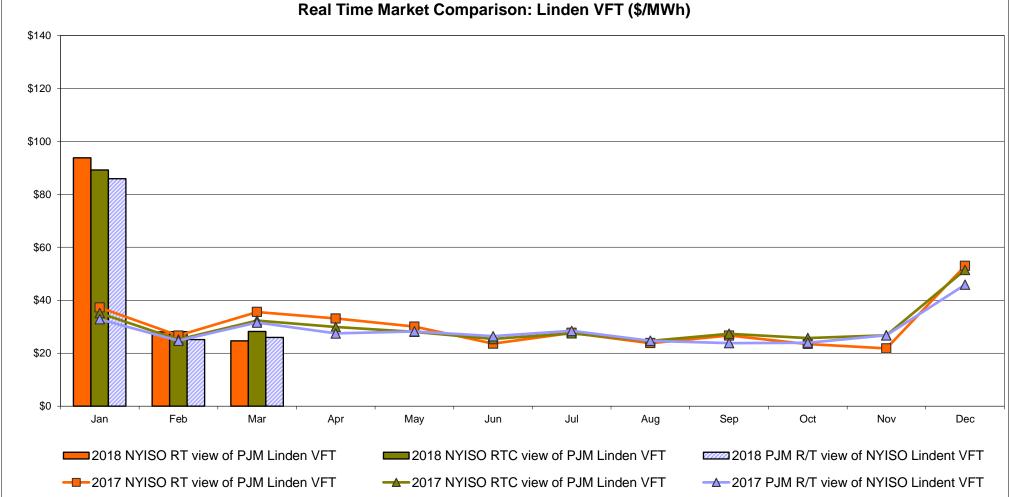


Note:

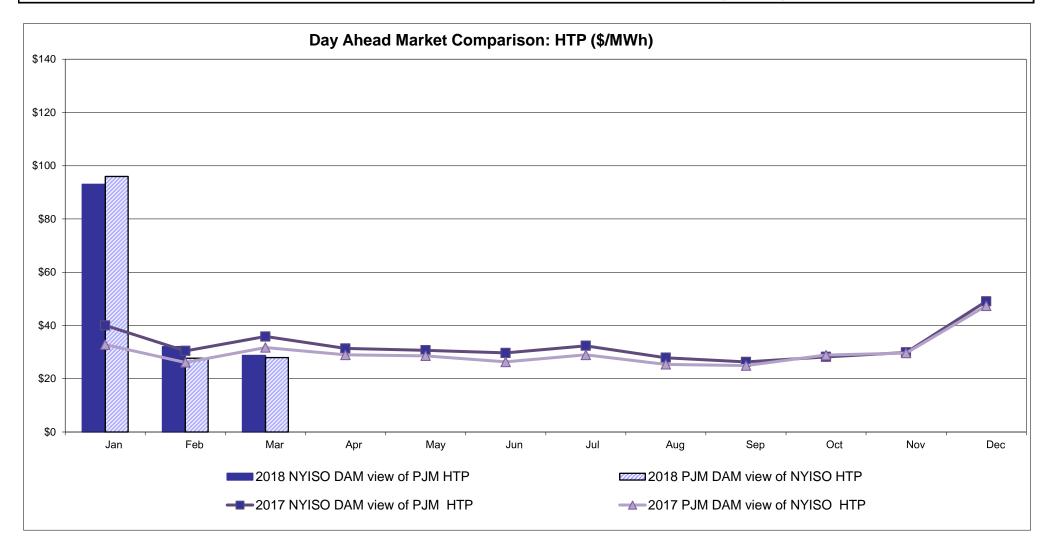
Hydro-Quebec Prices are unavailable.

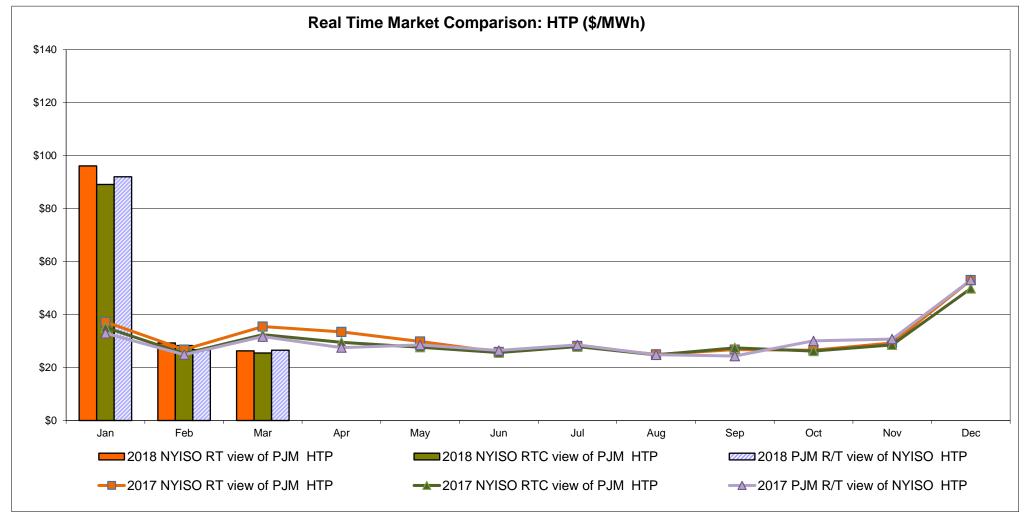
External Controllable Line: Linden VFT (PJM)





External Controllable Line: Hudson (PJM)



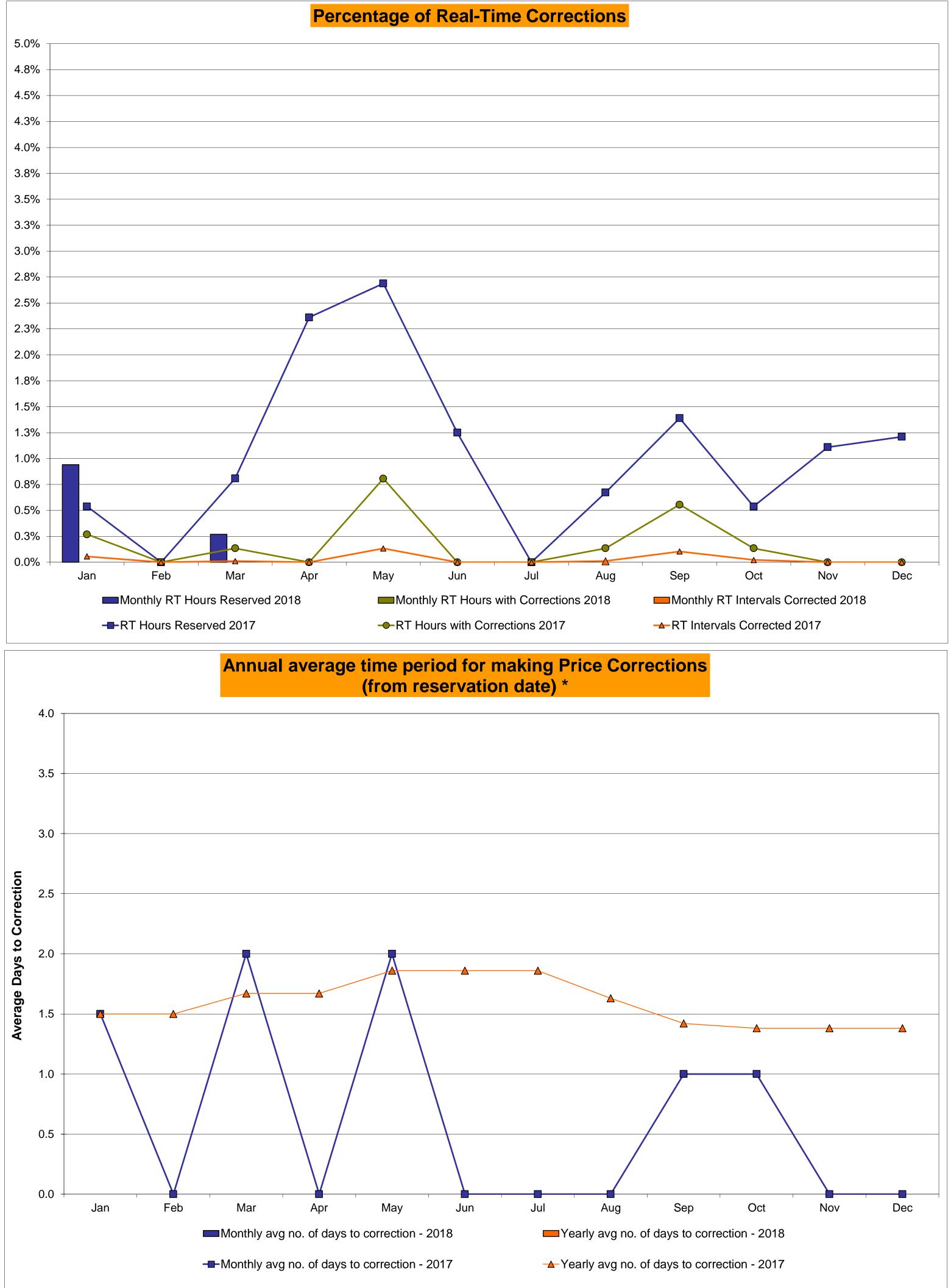


NYISO Real Time Price Correction Statistics

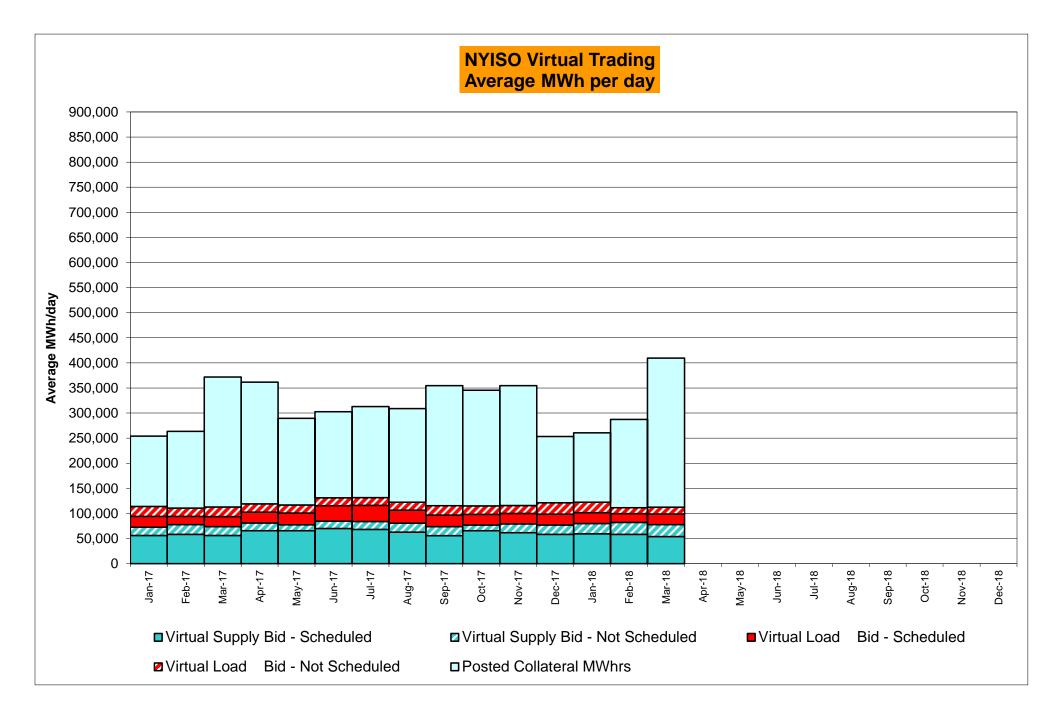
<u>2018</u>		<u>January</u>	February	March	<u>April</u>	May	June	July	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Hour Corrections				-									
Number of hours with corrections	in the month	0	0	0									
Number of hours	in the month	744	672	743									
% of hours with corrections	in the month	0.00%	0.00%	0.00%									
% of hours with corrections	year-to-date	0.00%	0.00%	0.00%									
Interval Corrections		-		-									
Number of intervals corrected	in the month	0	0	0									
Number of intervals	in the month	9,021	8,112	9,002									
% of intervals corrected	in the month	0.00%	0.00%	0.00%									
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%									
Hours Reserved													
Number of hours reserved	in the month	7	0	2									
Number of hours	in the month	744	672	743									
% of hours reserved	in the month	0.94%	0.00%	0.27%									
% of hours reserved	year-to-date	0.94%	0.49%	0.42%									
Days to Correction *													
Avg. number of days to correction	in the month	0.00	0.00	0.00									
Avg. number of days to correction	year-to-date	0.00	0.00	0.00									
Days Without Corrections													
Days without corrections	in the month	31	28	31									
Days without corrections	year-to-date	31	59	90									
<u>2017</u>		<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
2017 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
	in the month	<u>January</u> 2	<u>February</u> 0	<u>March</u> 1	<u>April</u> 0	<u>May</u> 6	<u>June</u> 0	<u>July</u> 0	<u>August</u> 1	<u>September</u> 4	<u>October</u> 1	<u>November</u> 0	<u>December</u> 0
Hour Corrections	in the month in the month			<u>March</u> 1 743					<u>August</u> 1 744	<u>September</u> 4 720	<u>October</u> 1 744		
Hour Corrections Number of hours with corrections		2	0	1	0	6	0	0	1	4	1	0	0
Hour Corrections Number of hours with corrections Number of hours	in the month	2 744 0.27%	0 672	1 743	0 720	6 744	0 720	0 744	1 744	4 720 0.56%	1 744	0 721	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	2 744	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720	1 744 0.13%	0 721 0.00%	0 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	2 744 0.27%	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720 0.56%	1 744 0.13%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	2 744 0.27% 0.27%	0 672 0.00% 0.14%	1 743 0.13%	0 720 0.00% 0.10%	6 744 0.81% 0.25%	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13%	4 720 0.56% 0.21%	1 744 0.13% 0.21%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% <u>0.27%</u> 5	0 672 0.00% 0.14% 0	1 743 0.13% <u>0.14%</u> 1	0 720 0.00% <u>0.10%</u> 0	6 744 0.81% <u>0.25%</u> 12	0 720 0.00% <u>0.21%</u> 0	0 744 0.00% <u>0.18%</u> 0	1 744 0.13% <u>0.17%</u> 1	4 720 0.56% <u>0.21%</u> 9	1 744 0.13% <u>0.21%</u> 2	0 721 0.00% <u>0.19%</u> 0	0 744 0.00% <u>0.17%</u> 0
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 5 8,983 0.06%	0 672 0.00% 0.14% 0 8,101 0.00%	1 743 0.13% <u>0.14%</u> 1 9,026	0 720 0.00% 0.10% 0 8,745 0.00%	6 744 0.81% 0.25% 12 9,004 0.13%	0 720 0.00% 0.21% 0 8,712	0 744 0.00% <u>0.18%</u> 0 8,968	1 744 0.13% <u>0.17%</u> 1 8,980	4 720 0.56% <u>0.21%</u> 9 8,701 0.10%	1 744 0.13% <u>0.21%</u> 2 9,006	0 721 0.00% <u>0.19%</u> 0 8,712	0 744 0.00% <u>0.17%</u> 0 9,063
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	2 744 0.27% 0.27% 5 8,983	0 672 0.00% 0.14% 0 8,101	1 743 0.13% <u>0.14%</u> 1 9,026 0.01%	0 720 0.00% 0.10% 0 8,745	6 744 0.81% 0.25% 12 9,004	0 720 0.00% 0.21% 0 8,712 0.00%	0 744 0.00% 0.18% 0 8,968 0.00%	1 744 0.13% <u>0.17%</u> 1 8,980 0.01%	4 720 0.56% <u>0.21%</u> 9 8,701	1 744 0.13% <u>0.21%</u> 2 9,006 0.02%	0 721 0.00% 0.19% 0 8,712 0.00%	0 744 0.00% <u>0.17%</u> 0 9,063 0.00%
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	2 744 0.27% 0.27% 5 8,983 0.06%	0 672 0.00% 0.14% 0 8,101 0.00%	1 743 0.13% <u>0.14%</u> 1 9,026 0.01%	0 720 0.00% 0.10% 0 8,745 0.00%	6 744 0.81% 0.25% 12 9,004 0.13%	0 720 0.00% 0.21% 0 8,712 0.00%	0 744 0.00% 0.18% 0 8,968 0.00%	1 744 0.13% <u>0.17%</u> 1 8,980 0.01%	4 720 0.56% <u>0.21%</u> 9 8,701 0.10%	1 744 0.13% <u>0.21%</u> 2 9,006 0.02%	0 721 0.00% 0.19% 0 8,712 0.00%	0 744 0.00% <u>0.17%</u> 0 9,063 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 5 8,983 0.06% 0.06%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% <u>0.14%</u> 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% <u>0.25%</u> 12 9,004 0.13% <u>0.04%</u>	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% <u>0.17%</u> 1 8,980 0.01% 0.03%	4 720 0.56% <u>0.21%</u> 9 8,701 0.10% <u>0.04%</u>	1 744 0.13% <u>0.21%</u> 2 9,006 0.02% <u>0.03%</u>	0 721 0.00% 0.19% 0 8,712 0.00% 0.03%	0 744 0.00% <u>0.17%</u> 0 9,063 0.00% <u>0.03%</u>
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals correctedNumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4	0 672 0.00% 0.14% 0 8,101 0.00% 0.03%	1 743 0.13% <u>0.14%</u> 1 9,026 0.01% <u>0.02%</u> 6	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17	6 744 0.81% <u>0.25%</u> 12 9,004 0.13% <u>0.04%</u> 20	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0	1 744 0.13% <u>0.17%</u> 1 8,980 0.01% <u>0.03%</u> 5	4 720 0.56% <u>0.21%</u> 9 8,701 0.10% <u>0.04%</u> 10	1 744 0.13% <u>0.21%</u> 2 9,006 0.02% <u>0.03%</u> 4	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8	0 744 0.00% <u>0.17%</u> 0 9,063 0.00% <u>0.03%</u> 9
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 correctedNumber of hours reservedNumber of hours reservedNumber of hours	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 5 8,983 0.06% 0.06% 4 744	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00%	1 744 0.13% <u>0.17%</u> 1 8,980 0.01% 0.03% 5 744	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39%	1 744 0.13% <u>0.21%</u> 2 9,006 0.02% <u>0.03%</u> 4 744 0.54%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11%	0 744 0.00% <u>0.17%</u> 0 9,063 0.00% <u>0.03%</u> 9 744
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	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month in the month	2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721	0 744 0.00% <u>0.17%</u> 0 9,063 0.00% <u>0.03%</u> 9 744 1.21%
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Mumber of intervals Number of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month in the month	2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39%	1 744 0.13% <u>0.21%</u> 2 9,006 0.02% <u>0.03%</u> 4 744 0.54%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11%	0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05%
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 year-to-date	2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54% 0.54% 0.54% 1.50	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% 0.00	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0.03% 0 744 0.00% 1.10% 0.00	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.00	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00	0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00
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Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reservedNumber of hours reserved% of hours reservedDays to Correction *Avg. number of days to correctionAvg. number of days to correctionAvg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54% 0.54% 0.54% 1.50 1.50	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0.03% 0.03% 0.00% 0.28% 0.00 1.50	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00 1.67	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0.03% 0 744 0.00% 1.10% 0.00	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.00	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00 1.38	0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of hours reserved <tr< td=""><td>in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date in the month year-to-date</td><td>2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54% 0.54% 0.54% 1.50</td><td>0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% 0.00</td><td>1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00</td><td>0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00 1.67</td><td>6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00 1.86</td><td>0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00 1.86</td><td>0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0.03% 0 744 0.00% 1.10% 0.00 1.86</td><td>1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00 1.63</td><td>4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.00 1.42</td><td>1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00 1.38</td><td>0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00</td><td>0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00 1.38</td></tr<>	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54% 0.54% 0.54% 1.50	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28% 0.00	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00 1.67	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00 1.86	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00 1.86	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0.03% 0 744 0.00% 1.10% 0.00 1.86	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00 1.63	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.00 1.42	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00 1.38	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00	0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00 1.38

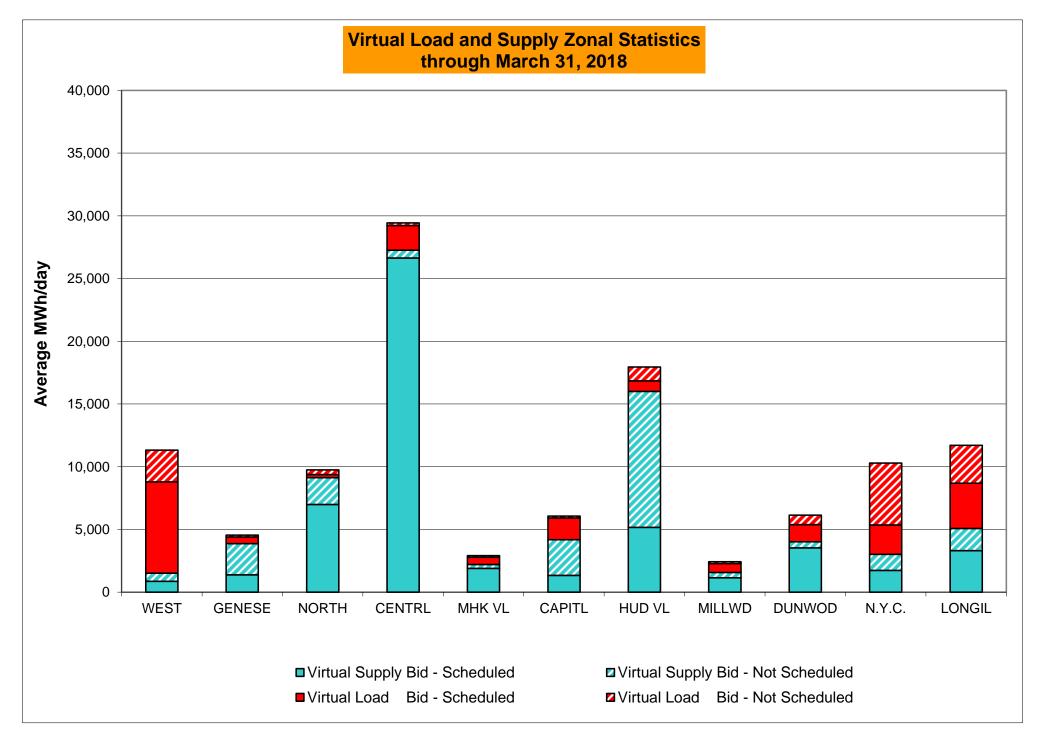
* Calendar days from reservation date.

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



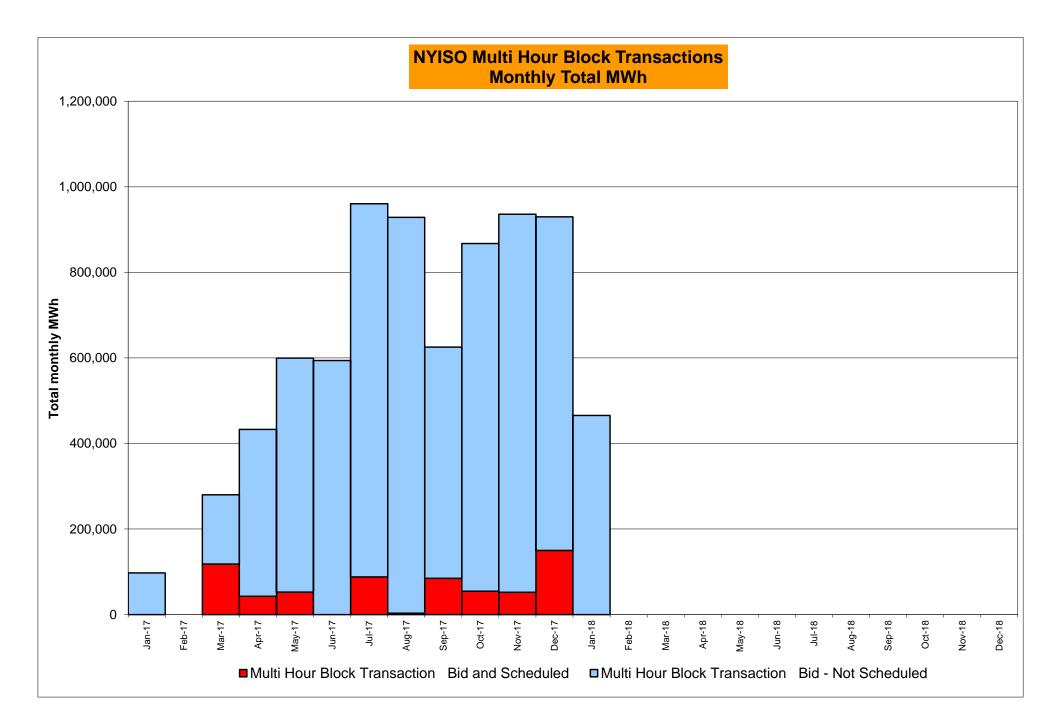
* Calendar days from reservation date.

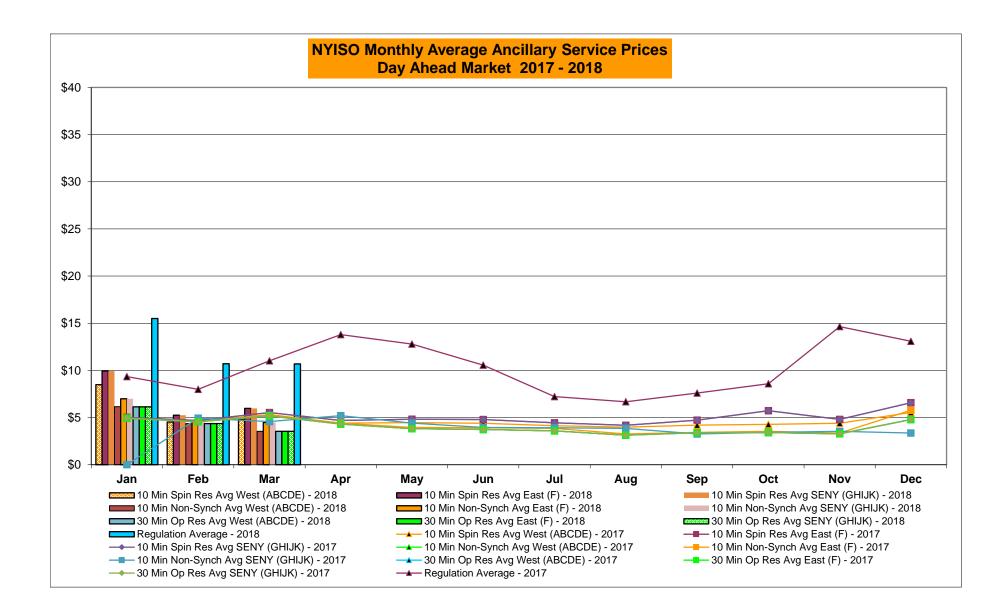


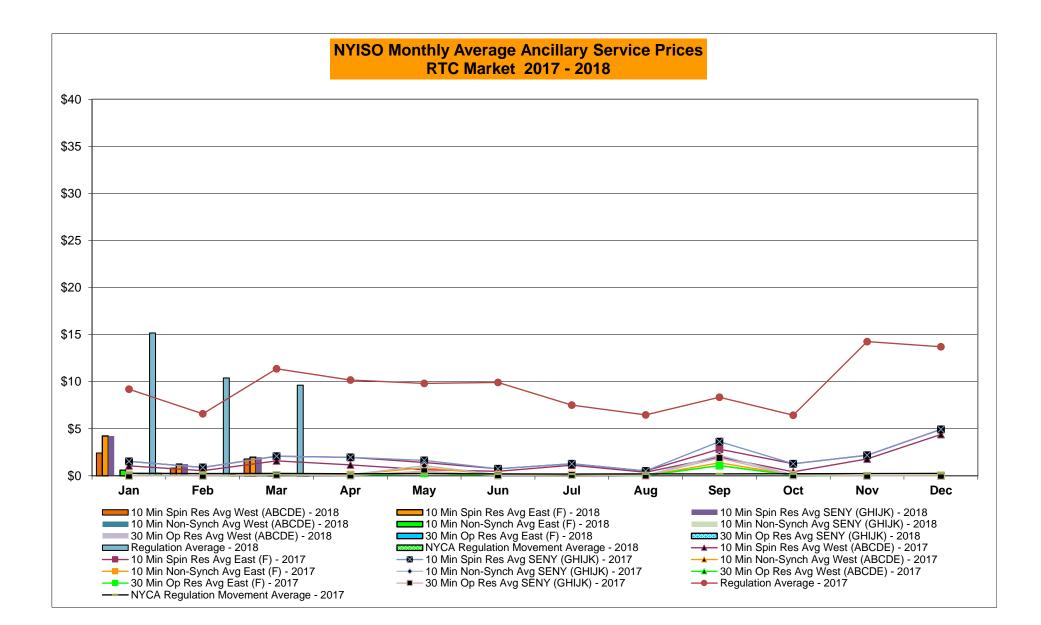


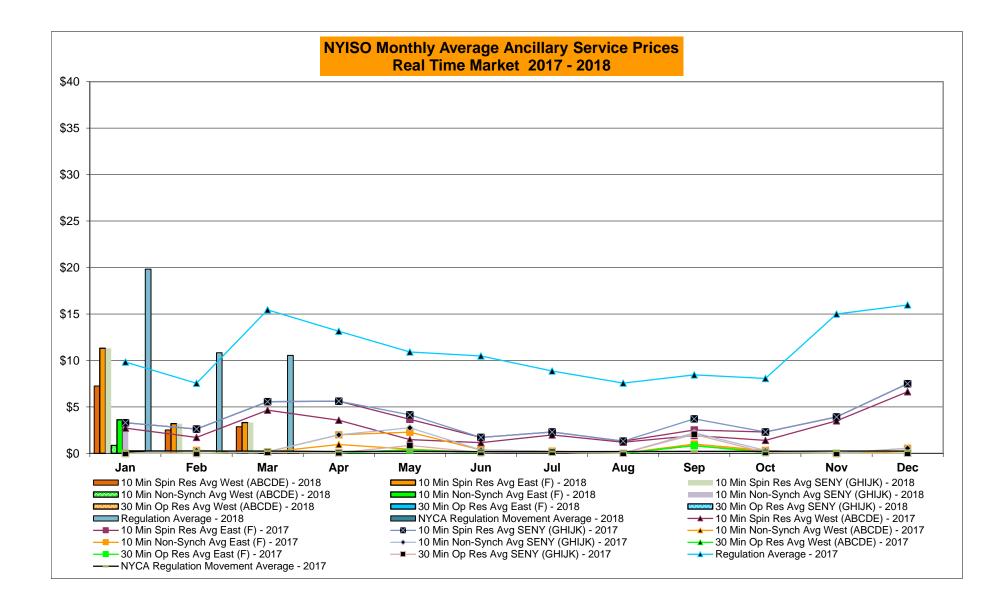
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018

		Virtual L		Virtual S	upply Bid			Virtual L		Virtual Su	upply Bid			Virtual L	oad Bid	Virtual Su	
_		.	Not	.	Not			.	Not	.	Not			_	Not	.	Not
Zone	Date	Scheduled		Scheduled	Scheduled	Zone	Date	Scheduled		Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
NEST	Jan-18	4,761	4,241	1,938	427	MHK VL	Jan-18					DUNWOD		1,795	1,509	2,215	
	Feb-18 Mar-18	3,058 7,263		1,478 860	603 659	_	Feb-18						Feb-18 Mar-18	742	658 755	5,891 3,530	824 487
	Apr-18	7,203	2,535	000	609	_	Mar-18 Apr-18		139	1,090	309		Apr-18	1,307	/ 33	3,530	407
	May-18					_	May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18					_	Jul-18						Jul-18				
	Aug-18					-	Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
GENESE	Jan-18	554	310	3,772	2,739	CAPITL	Jan-18	2,291	1,751	1,887	2,212	N.Y.C.	Jan-18	4,302	5,885	1,359	704
	Feb-18	525		1,723	2,671		Feb-18				2,799		Feb-18	5,644	4,187	1,181	1,086
	Mar-18	537		1,381	2,488		Mar-18		156				Mar-18	2,346		1,727	1,285
	Apr-18			,			Apr-18			,			Apr-18		,		,
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
NORTH	Jan-18	274	282	8,259	3,265	HUD VL	Jan-18			5,029		LONGIL	Jan-18	3,335	3,714	1,932	
	Feb-18	352		7,449	2,777		Feb-18						Feb-18	2,800	2,591	3,061	2,605
	Mar-18	249	367	6,995	2,136		Mar-18		1,098	5,169	10,837		Mar-18	3,613	3,021	3,308	1,768
	Apr-18						Apr-18						Apr-18				
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18 Sep-18					_	Aug-18 Sep-18						Aug-18 Sep-18				
	Oct-18					_	Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18					-	Dec-18						Dec-18				
CENTRL	Jan-18	983		28,975	647	MILLWD	Jan-18					NYISO	Jan-18			59,437	20,478
	Feb-18 Mar-18	595 1,977		28,161 26,643	483 614	_	Feb-18 Mar-18			1,284 1,144			Feb-18 Mar-18	17,423 21,217	11,608 13,494	58,172 53,984	24,075 23,855
	Apr-18		200	20,043	014		Apr-18		141	1,144	+21		Apr-18		10,494	55,504	20,000
	May-18						May-18					—	May-18				
	Jun-18					-	Jun-18					—	Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18					\neg	Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				









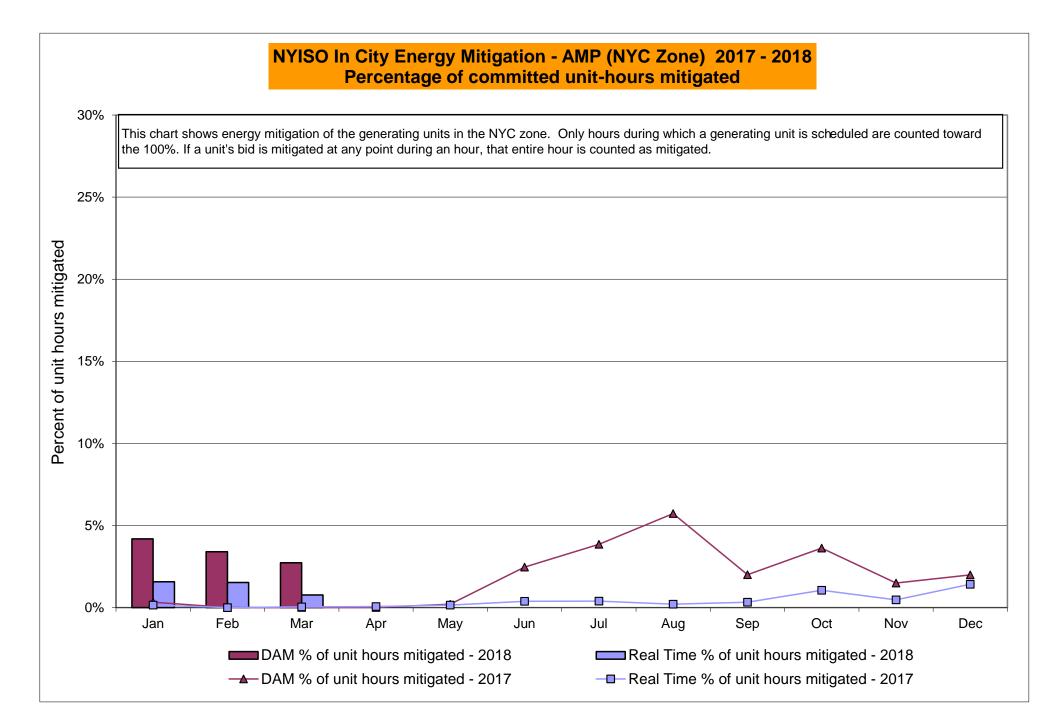
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

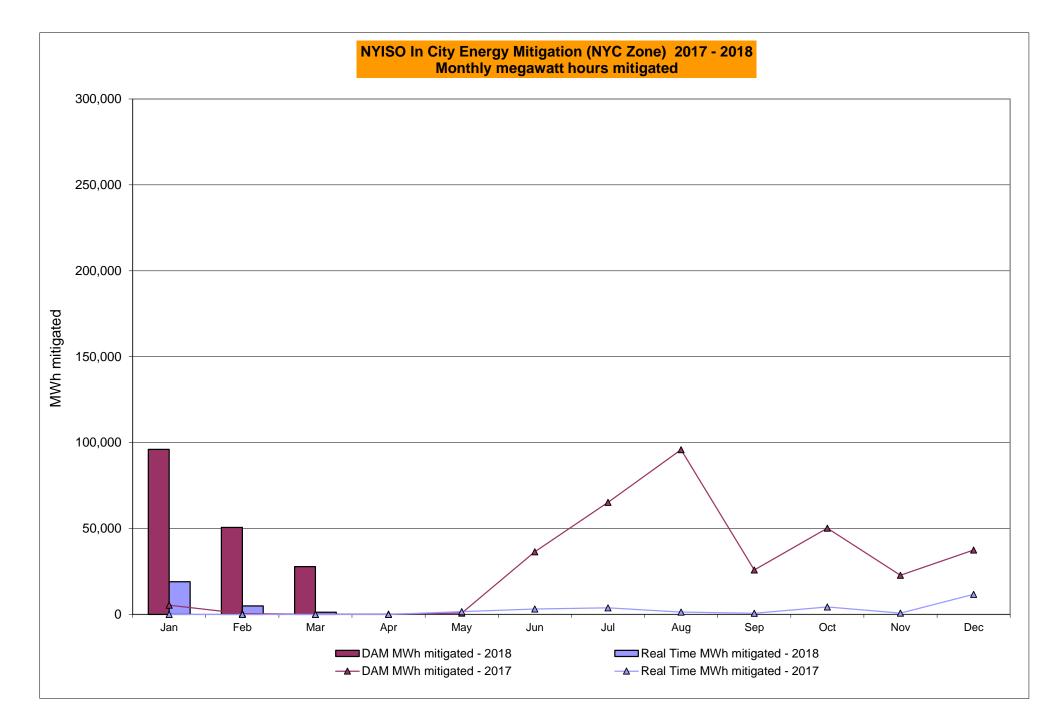
					Statistics		giitoa
2018	January	February	March	<u>April</u>	May	June	July
	January	rebluary	<u>Iviar Cri</u>		iviay	June	July
Day Ahead Market	0.00	5.04	5 07				
10 Min Spin SENY (GHIJK)	9.93	5.24	5.97				
10 Min Spin East (F)	9.93	5.24	5.97				
10 Min Spin West (ABCDE)	8.49	4.53	4.78				
10 Min Non Synch SENY (GHIJK)	6.99	4.54	4.48				
10 Min Non Synch East (F)	6.99	4.54	4.48				
10 Min Non Synch West (ABCDE)	6.15	4.36	3.54				
30 Min SENY (GHIJK)	6.14	4.36	3.54				
· · · · ·							
30 Min East (F)	6.14	4.36	3.54				
30 Min West (ABCDE)	6.14	4.36	3.54				
Regulation	15.51	10.70	10.68				
DTC Morket							
RTC Market			4.00				
10 Min Spin SENY (GHIJK)	4.23	1.24	1.98				
10 Min Spin East (F)	4.23	1.24	1.98				
10 Min Spin West (ABCDE)	2.43	0.82	1.79				
10 Min Non Synch SENY (GHIJK)	0.59	0.03	0.01				
10 Min Non Synch East (F)	0.59	0.03	0.01				
10 Min Non Synch West (ABCDE)	0.08	0.02	0.00				
30 Min SENY (GHIJK)	0.08	0.02	0.00				
30 Min East (F)	0.08	0.02	0.00				
30 Min West (ABCDE)	0.08	0.02	0.00				
Regulation	15.17	10.40	9.63				
NYCA Regulation Movement	0.26	0.21	0.20				
Deal Three Market							
Real Time Market							
10 Min Spin SENY (GHIJK)	11.31	3.19	3.31				
10 Min Spin East (F)	11.31	3.19	3.31				
10 Min Spin West (ABCDE)	7.24	2.52	2.86				
10 Min Non Synch SENY (GHIJK)	3.61	0.01	0.19				
10 Min Non Synch East (F)	3.61	0.01	0.19				
10 Min Non Synch West (ABCDE)	0.85	0.00	0.00				
30 Min SENY (GHIJK)	0.13	0.00	0.00				
30 Min East (F)	0.13	0.00	0.00				
30 Min West (ABCDE)	0.13	0.00	0.00				
Regulation	19.82	10.82	10.54				
NYCA Regulation Movement	0.24	0.21	0.20				
0							
2017	<u>January</u>	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>
Day Ahead Market	<u>bandary</u>	robraary	<u>Indioni</u>	<u>//p/m</u>	may		<u>o ary</u>
	E 01	F 20	F 04	6.04	4.02	4.60	C 11
10 Min Spin SENY (GHIJK)	5.01	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin East (F)	5.01	5.38	5.04	6.31	4.93	4.62	6.41
10 Min Spin West (ABCDE)	4.94	5.25	4.84	5.60	4.77	4.52	5.78
			4 00	E 00	1 0 2	1 26	6.34
10 Min Non Synch SENY (GHIJK)	4.94	5.25	4.88	5.80	4.83	4.36	
10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	4.94 4.94	5.25 5.25	4.88 4.88	5.80	4.83	4.36 4.36	6.34
10 Min Non Synch East (F)	4.94	5.25	4.88	5.80	4.83	4.36	
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	4.94 4.92	5.25 5.20	4.88 4.84	5.80 5.58	4.83 4.68	4.36 4.32	5.72
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	4.94 4.92 4.92	5.25 5.20 5.20	4.88 4.84 4.84	5.80 5.58 5.58	4.83 4.68 4.67	4.36 4.32 4.32	5.72 5.70
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	4.94 4.92 4.92 4.92	5.25 5.20 5.20 5.20	4.88 4.84 4.84 4.84	5.80 5.58 5.58 5.58	4.83 4.68 4.67 4.67	4.36 4.32 4.32 4.32	5.72 5.70 5.70
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	4.94 4.92 4.92 4.92 4.92 4.92	5.25 5.20 5.20 5.20 5.20 5.20	4.88 4.84 4.84 4.84 4.84	5.80 5.58 5.58 5.58 5.58 5.58	4.83 4.68 4.67 4.67 4.67	4.36 4.32 4.32 4.32 4.32	5.72 5.70 5.70 5.70
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	4.94 4.92 4.92 4.92	5.25 5.20 5.20 5.20	4.88 4.84 4.84 4.84	5.80 5.58 5.58 5.58	4.83 4.68 4.67 4.67	4.36 4.32 4.32 4.32	5.72 5.70 5.70
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	4.94 4.92 4.92 4.92 4.92 4.92	5.25 5.20 5.20 5.20 5.20 5.20	4.88 4.84 4.84 4.84 4.84	5.80 5.58 5.58 5.58 5.58 5.58	4.83 4.68 4.67 4.67 4.67	4.36 4.32 4.32 4.32 4.32	5.72 5.70 5.70 5.70
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u>	4.94 4.92 4.92 4.92 4.92 9.34	5.25 5.20 5.20 5.20 5.20 5.20 8.19	4.88 4.84 4.84 4.84 4.84 8.05	5.80 5.58 5.58 5.58 5.58 7.93	4.83 4.68 4.67 4.67 4.67 6.11	4.36 4.32 4.32 4.32 4.32 7.00	5.72 5.70 5.70 5.70 8.19
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK)	4.94 4.92 4.92 4.92 4.92 9.34	5.25 5.20 5.20 5.20 5.20 8.19 0.59	4.88 4.84 4.84 4.84 4.84 8.05	5.80 5.58 5.58 5.58 5.58 7.93	4.83 4.68 4.67 4.67 4.67 6.11	4.36 4.32 4.32 4.32 4.32 7.00	5.72 5.70 5.70 5.70 8.19 2.79
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71	5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81	4.83 4.68 4.67 4.67 6.11 0.43 0.43	4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46	5.72 5.70 5.70 5.70 8.19 2.79 2.77
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08	5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95	4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23	4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14	4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05	4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	4.94 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26	4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	5.72 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14	4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05	4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	4.94 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	5.72 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00	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	5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00	4.88 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	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ \end{array}$	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min 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)	4.94 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ \end{array}$	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02 0.02	5.72 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 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) Regulation	4.94 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.707	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.72 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min 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)	4.94 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ \end{array}$	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02 0.02	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 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) Regulation	4.94 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.707	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.72 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 1.06\\ 0.06\\ 0.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.21\\ 0.27\\ \end{array}$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21	4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.25	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$	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	5.72 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min 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) Regulation NYCA Regulation Movement <u>Real Time Market</u> 10 Min Spin SENY (GHIJK)	4.94 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 0.04	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73	5.80 5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 0.04	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40	5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.73
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.59 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 0.59 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 0.59 0.59 0.59 0.59 0.59 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 0.59 0.59 0.59 0.59 0.00 0.00 0.00 0.00 0.00 0.59 0.59 0.59 0.59 0.00 0.00 0.00 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.58	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 0.00	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.25 4.34 4.34 2.23	4.83 4.68 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 0.04	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.04 0.02 0.02 0.02	5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51
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 ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 1.53\\ 1.06\\ 0.06\\ 0.06\\ 0.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.27\\ \end{array}$ $\begin{array}{c} 3.29\\ 3.29\\ 3.29\\ 2.71\\ 0.00\\ \end{array}$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.59 0.59 0.26 0.00	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 2.23 1.20	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	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	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exal Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 1.06\\ 0.06\\ 0.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.21\\ 0.27\\ \end{array}$ $\begin{array}{c} 3.29\\ 3.29\\ 2.71\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.88\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.80 5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	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	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exal Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 1.53\\ 1.06\\ 0.06\\ 0.06\\ 0.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.27\\ \end{array}$ $\begin{array}{c} 3.29\\ 3.29\\ 3.29\\ 2.71\\ 0.00\\ \end{array}$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.59 0.59 0.26 0.00	4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 2.23 1.20	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	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	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exal Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 1.06\\ 0.06\\ 0.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.21\\ 0.27\\ \end{array}$ $\begin{array}{c} 3.29\\ 3.29\\ 2.71\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.88\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.80 5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	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	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exal Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 1.53\\ 1.06\\ 0.06\\ 0.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.21\\ 0.27\\ \end{array}$ $\begin{array}{c} 3.29\\ 3.29\\ 3.29\\ 2.71\\ 0.00\\$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.88\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.125 4.34 4.34 4.34 4.34 1.20 1.20 0.26	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65
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 ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exal Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$ $\begin{array}{c} 1.53\\ 1.53\\ 1.53\\ 1.06\\ 0.06\\ 0.06\\ 0.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 9.21\\ 0.27\\ \end{array}$ $\begin{array}{c} 3.29\\ 3.29\\ 2.71\\ 0.00\\$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.88\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min 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 East (F) 30 Min SENY (GHIJK) 30 Min SENY	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.88\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \hline \\ 0.71\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.71\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \hline \\ 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0.0$	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	$\begin{array}{c} 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \hline 0.49\\ 0.46\\ 0.24\\ 0.05\\ 0.02\\ 0.0$	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin East (F) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min Keast (F) 30 Min SenY (GHIJK) 30 Min SenY ($\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.88\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \end{array}$	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.25 1.20 1.20 0.25 0.25 0.25 0.25 8.30	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	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	5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97 8.37
10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min 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 SE	$\begin{array}{c} 4.94\\ 4.92\\ 4.92\\ 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.88\\ 4.84\\ 4.84\\ 4.84\\ 4.84\\ 8.05\\ \hline \\ 0.71\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.71\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \hline \\ 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0.0$	5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25	$\begin{array}{c} 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ \end{array}$	$\begin{array}{c} 4.36\\ 4.32\\ 4.32\\ 4.32\\ 4.32\\ 7.00\\ \hline 0.49\\ 0.46\\ 0.24\\ 0.05\\ 0.02\\ 0.0$	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

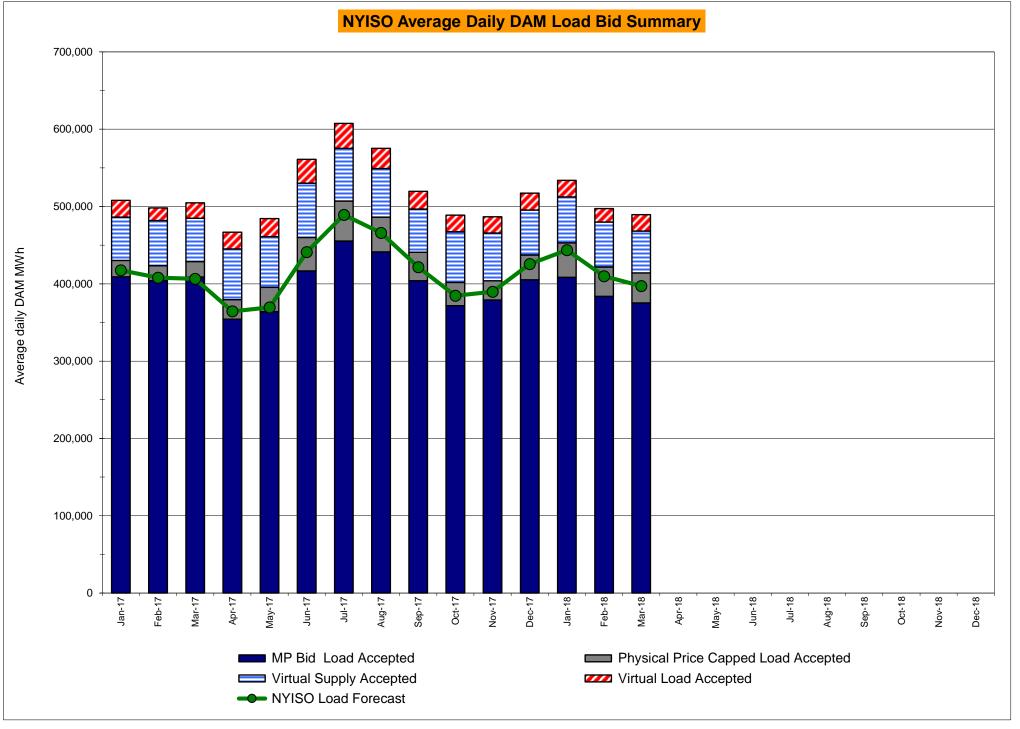
<u>August</u> <u>September</u>

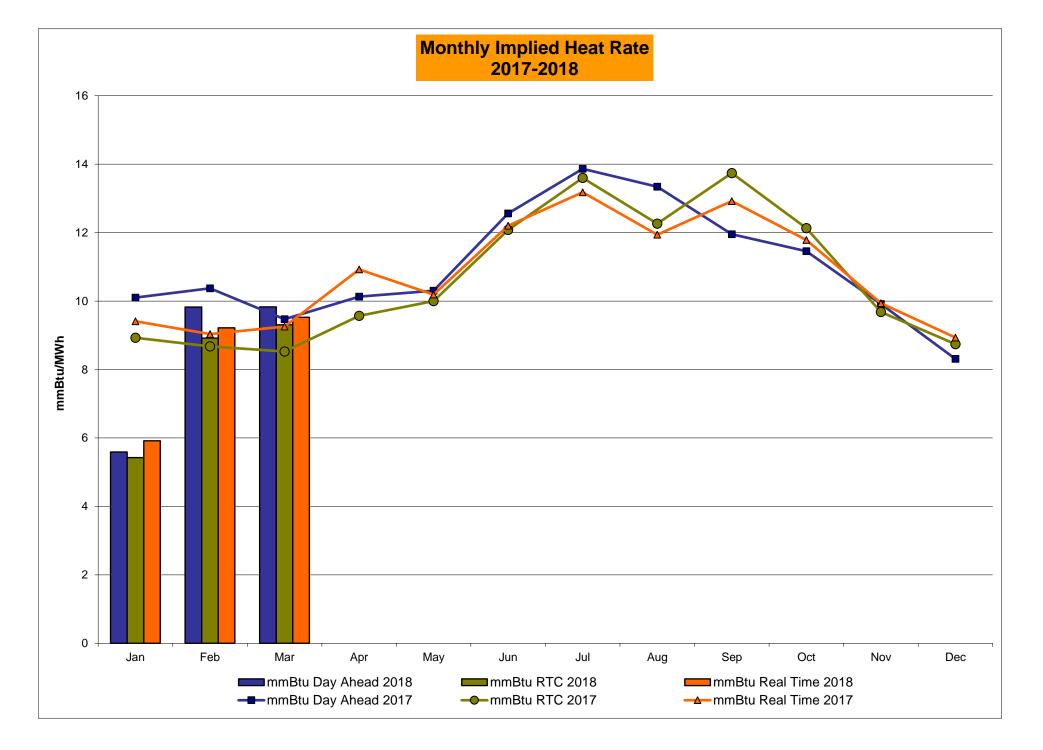
October November December

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

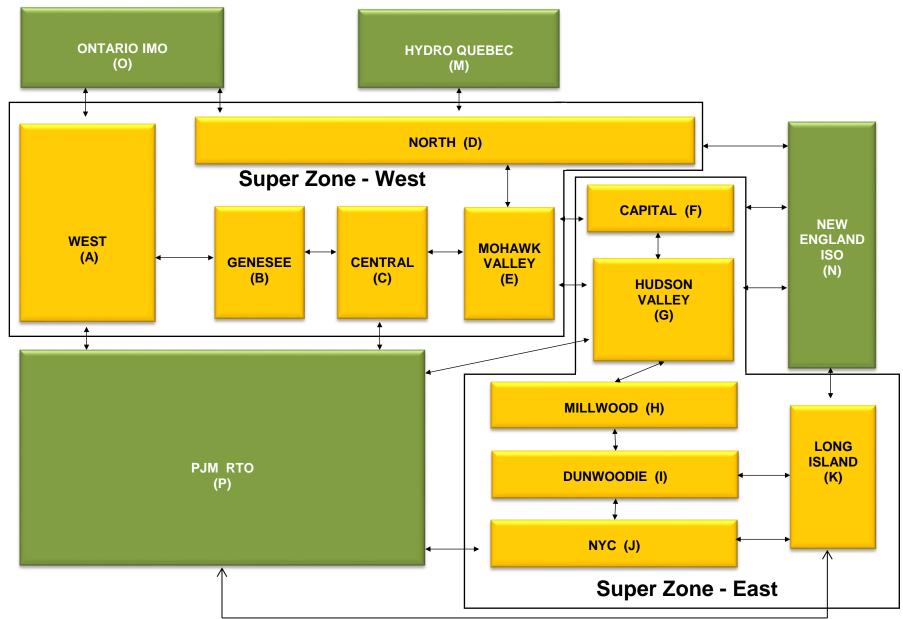








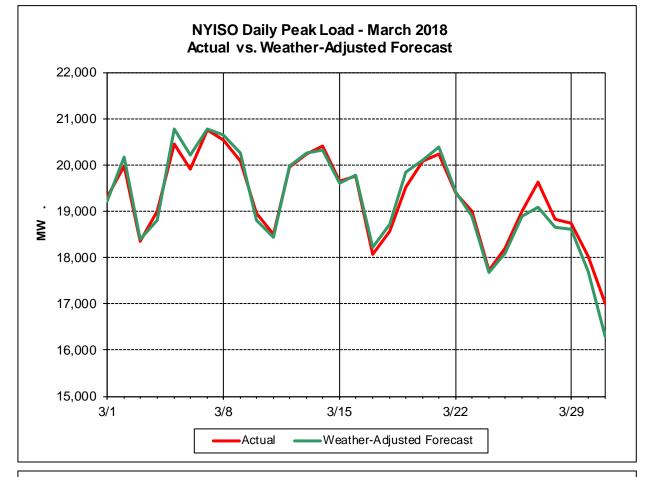
NYISO LBMP ZONES

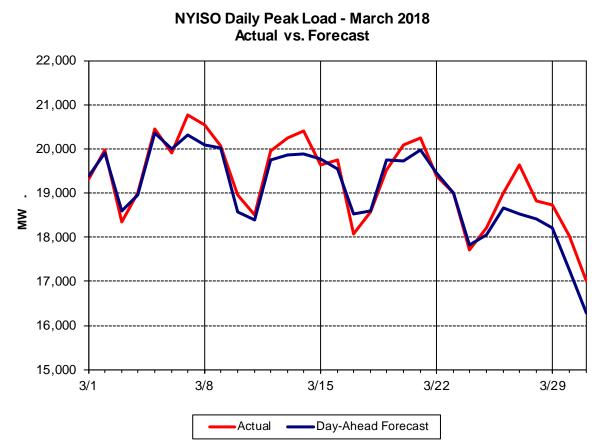


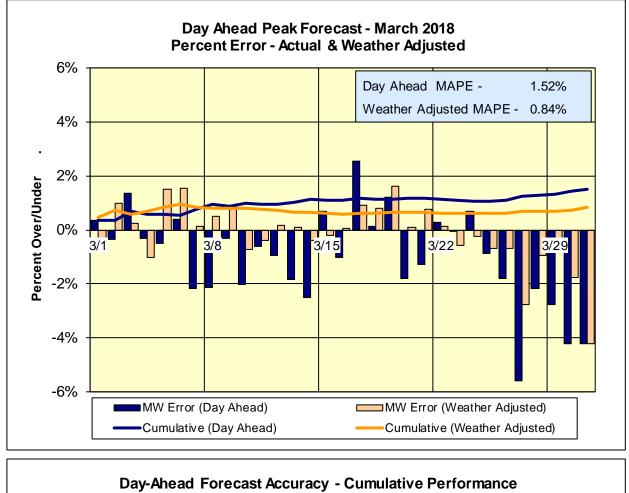
Market Mitigation and Analysis Prepared: 4/9/2018 12:03 PM

Billing Codes for Chart C

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











Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – March 2018

Filing Date	Filing Summary	Docket	Order Date	Order Summary
02/15/2018	NYISO compliance filing re: to establish procedures for allocating revenues received from the sale of Non-Historic Fixed Price TCCs	ER18-861-000	3/28/2018	Order accepted filing effective 04/17/2018, as requested
03/09/2018	NYISO filing re: response to FERC data requests pertaining to grid resilience issues	AD18-7-000		
03/12/2018	NYISO answer to third party comments re: NJBPU complaint v. PJM, NYISO, Con Edison, et. al.	EL18-54-000		
03/14/2018	NYISO confidential filing re: three month reliability commitment data report for the period ending 02/28/2018	PSC Matter No. 10-02007		
03/14/2018	NYISO filing re: notification of an emergency state in the NYCA on 03/14/2018	EY18-3-000		
03/15/2018	NYISO amendment to the 01/16/2018 compliance filing re: proper alignment of effective tariff language with effective dates	ER16-120-006		
03/19/2018	NYISO compliance filing re: Order No. 1000 regional transmission planning requirements	ER13-102-102		
03/22/2018	NYISO/Consolidated Edison joint filing re: amended and restated LGIA among NYISO, Con Edison and Bayonne Energy Center	ER18-1161-000		
03/23/2018	NYISO informational filing re: bid restriction waiver	ER18-604-000		
03/23/2018	NYISO 205 filing re: market party fuel cost adjustments	ER18-1168-000		
03/26/2018	IRC filing re rulemaking comments concerning supply chain risk management reliability standards	RM17-13-000		
03/28/2018	NYISO filing re: letter to confirm the public status of the transmittal letter filed on 03/22/2018 in ER18-1161-000	ER18-1161-000		
03/29/2018	NYISO 205 filing re: provision of synchronized reserves by inverter-based energy storage resources	ER18-1231-000		
03/30/2018	NYISO 205 filing re: price correction deadlines	ER18-1261-000		
03/30/2018	NYISO filing re: FERC Form 715: Annual Transmission Planning and Evaluation Report	No Docket No.		