

Monthly Report

August 2018



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Operations Performance Metrics Monthly Report



August 2018 Report

Operations & Reliability Department New York Independent System Operator



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August 2018 Operations Performance Highlights

- Peak load of 31,861 MW occurred on 08/29/2018 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 19.7 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- EDRP/SCR resources activated in Zone J on 8/28/2018 and 8/29/2018 from HB12 to HB18 respectively.
- 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	\$0.43	\$9.67
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.17	\$0.83
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.20	(\$0.72)
Total NY Savings	\$0.80	\$9.78
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.28	\$2.01
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.07	\$0.54
Total Regional Savings	\$0.35	\$2.55

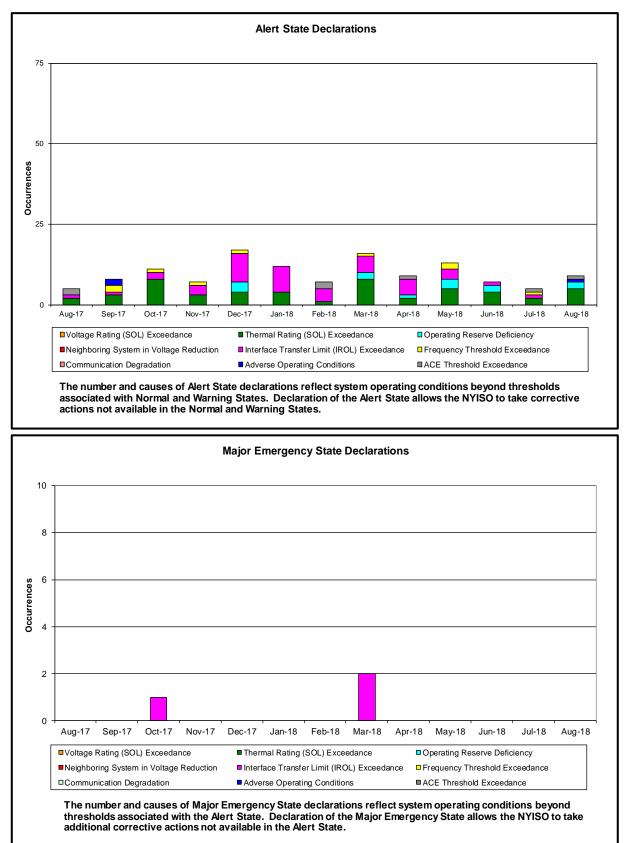
- Statewide uplift cost monthly average was (\$0.61)/MWh
- The following table identifies the Monthly ICAP Spot Market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
September 2018 Spot Price	\$2.87	\$9.32	\$9.32	\$6.63
August 2018 Spot Price	\$3.88	\$9.58	\$9.58	\$6.68
Delta	(\$1.01)	(\$0.26)	(\$0.26)	(\$0.05)

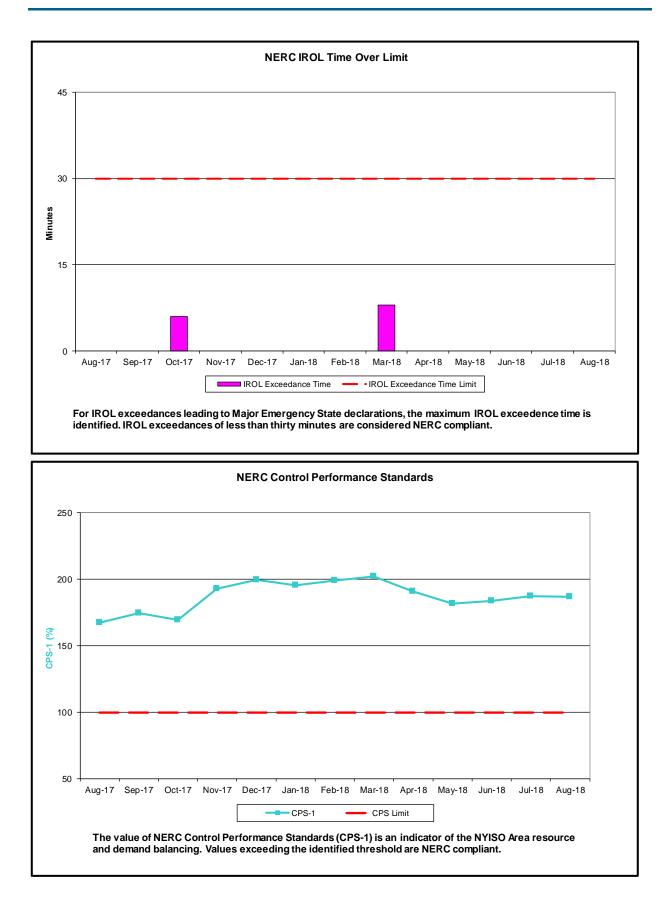
- NYC Price decrease by \$0.26 due to decreases in unoffered capacity
- GHIJ Price decrease by \$0.26 due to decreases in unoffered capacity
- NYCA Price decrease by \$1.01 due to increases in net imports



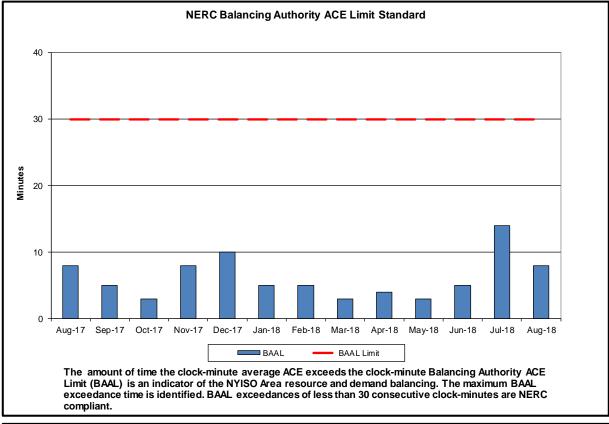
Reliability Performance Metrics

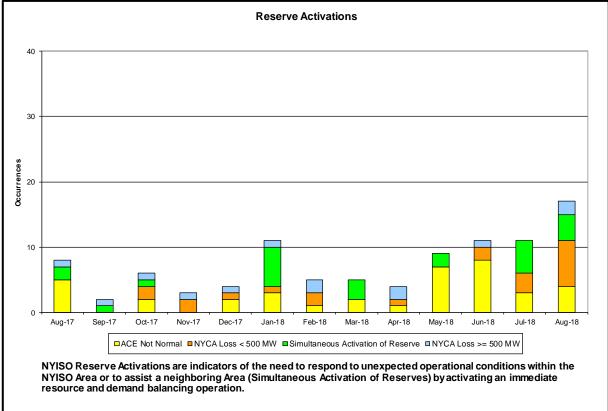




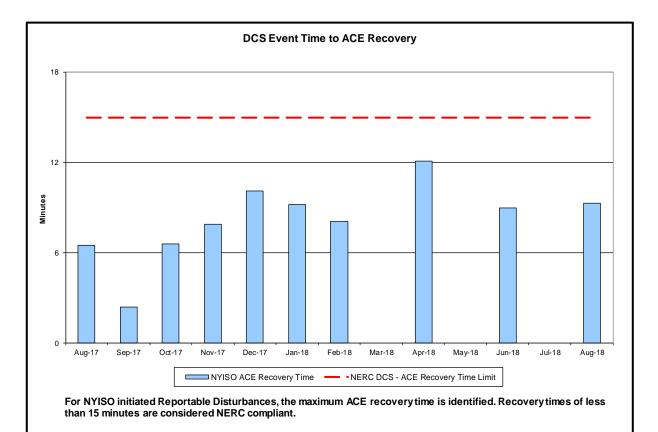


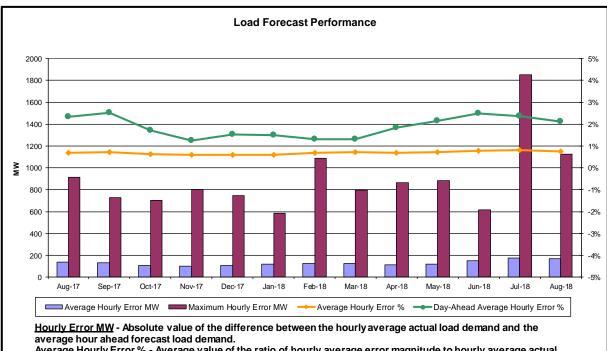








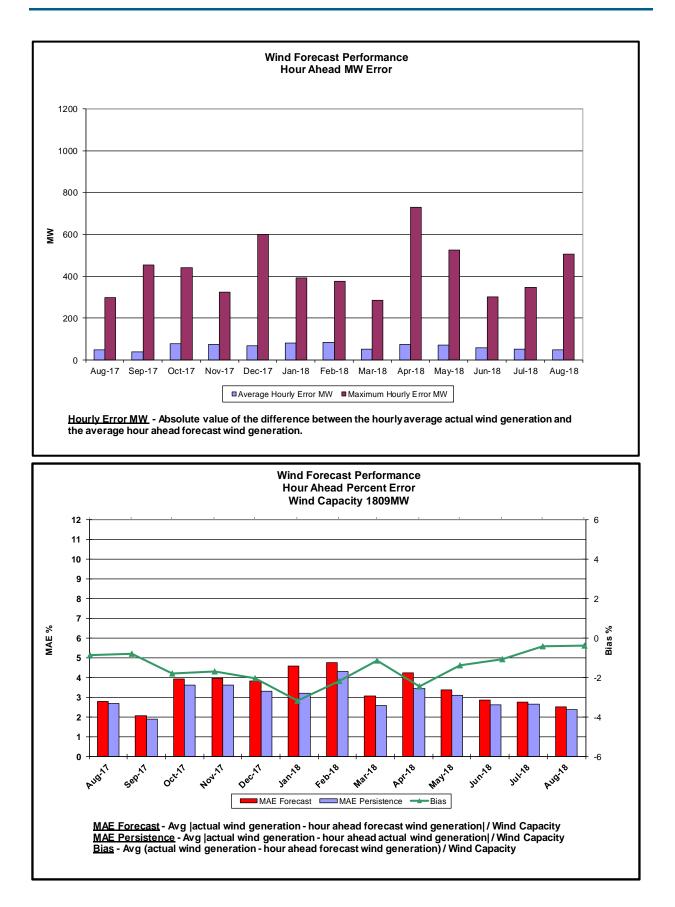




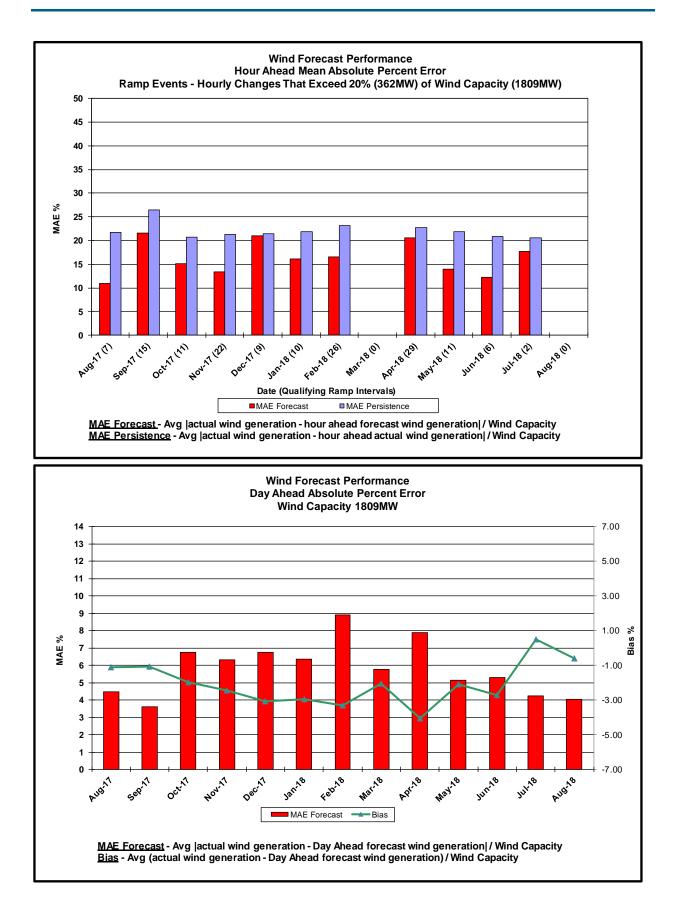
<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

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

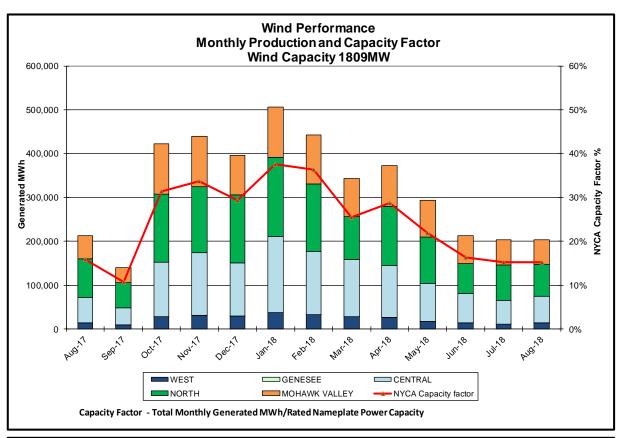


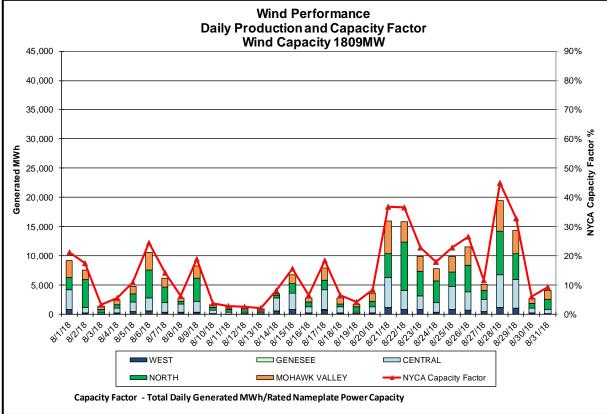




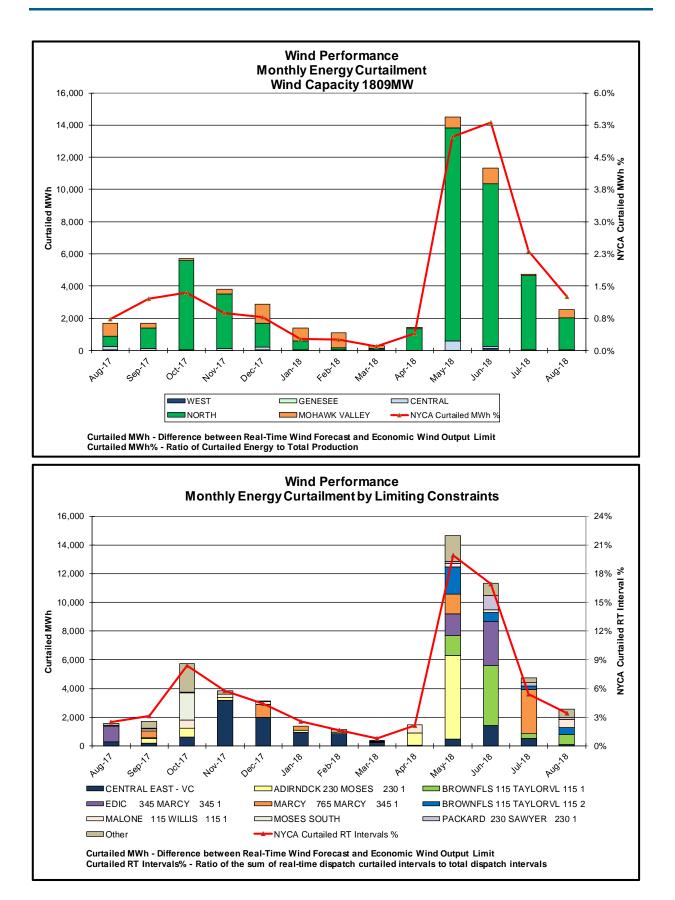




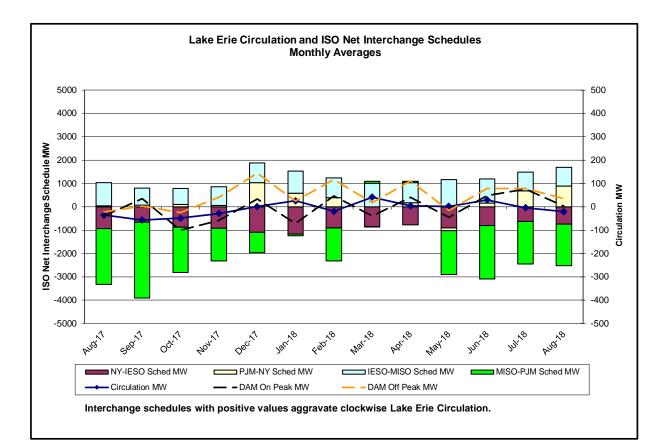


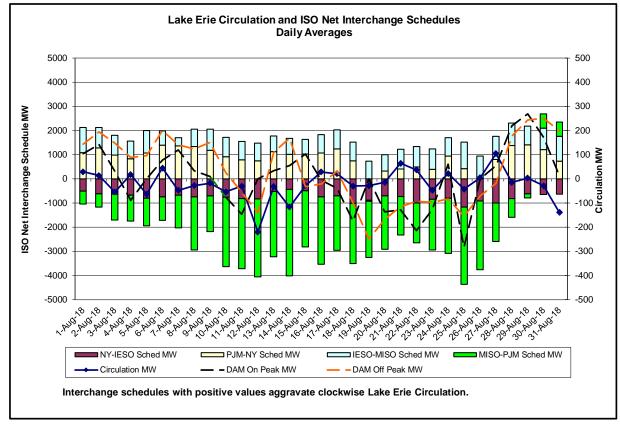




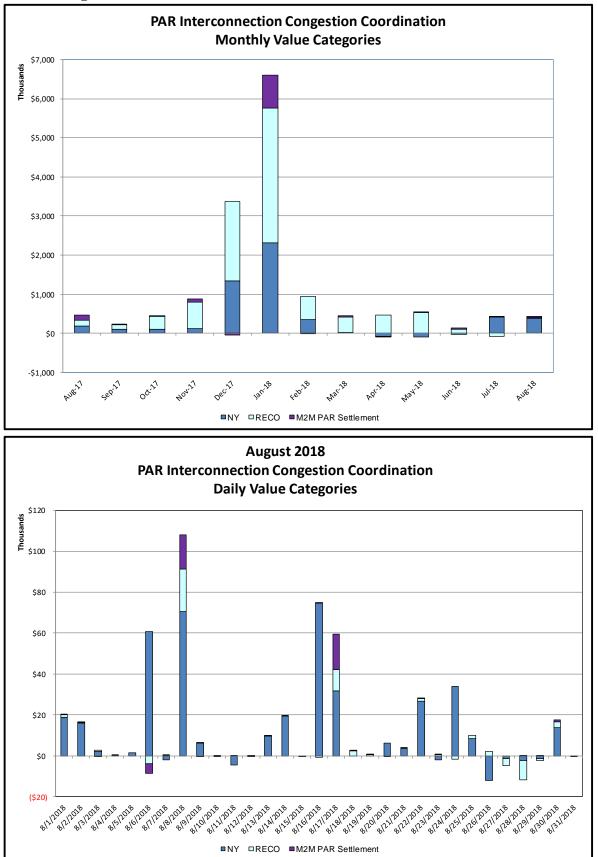










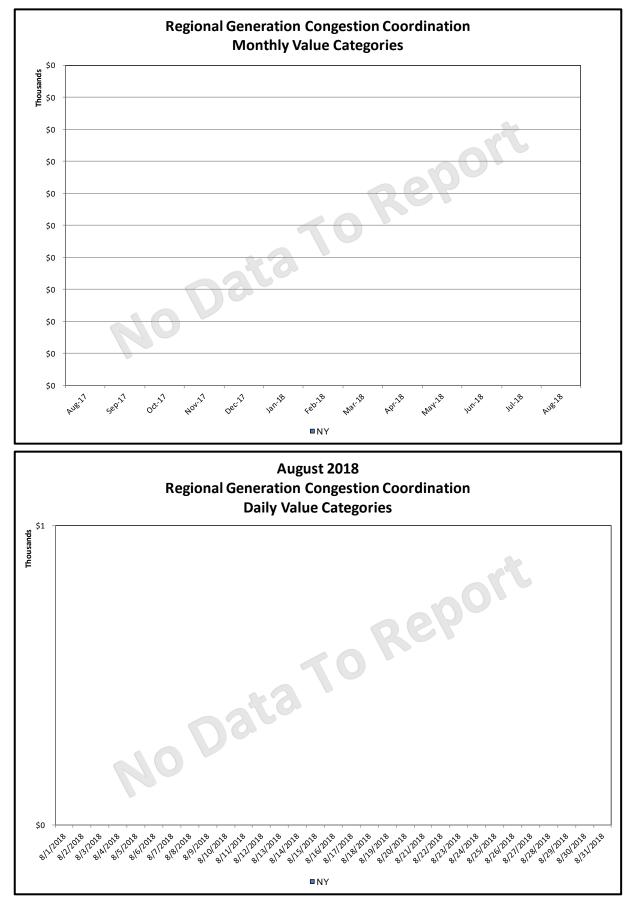


Broader Regional Market Performance Metrics



	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.





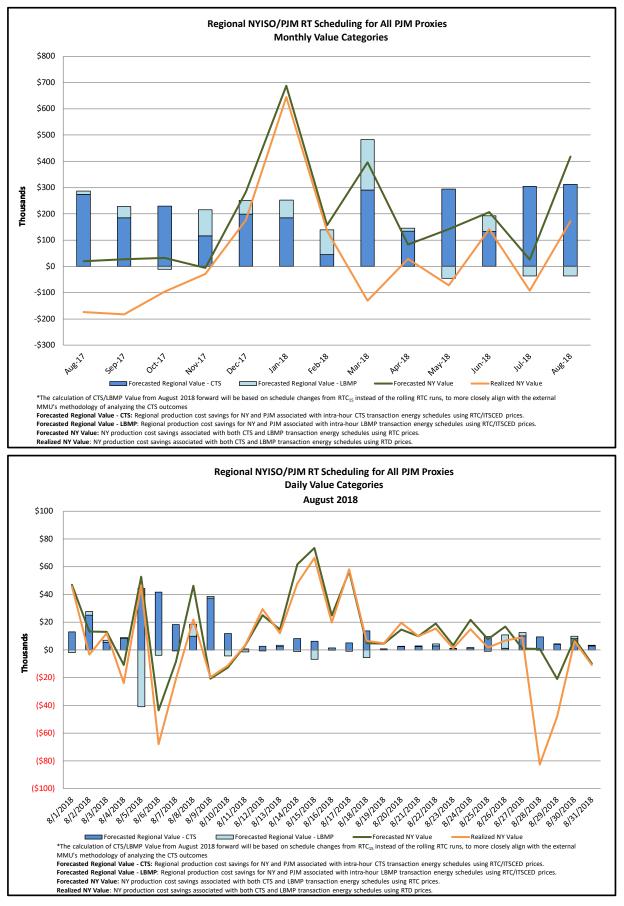


Regional Generation Congestion Coordination

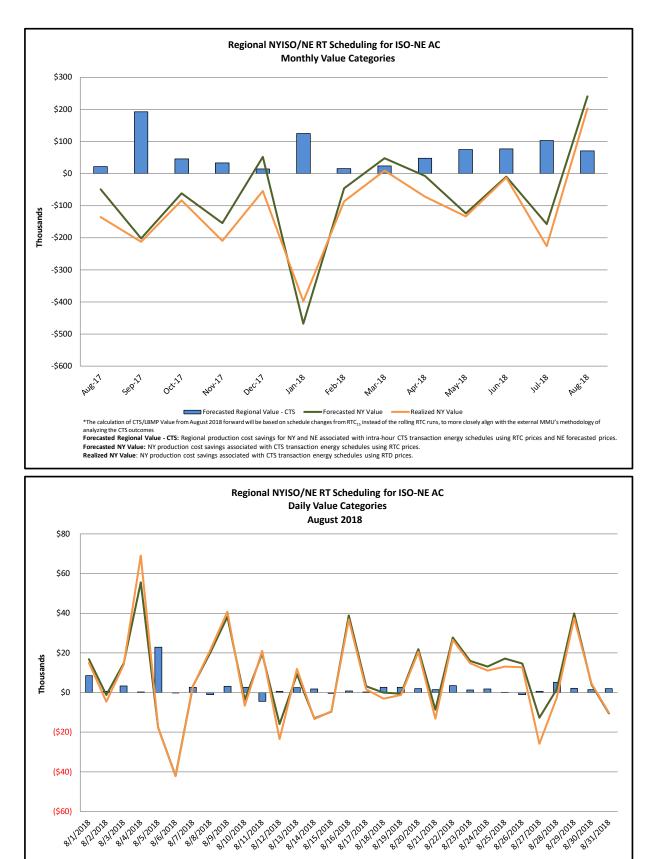
<u>Category</u> NY

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







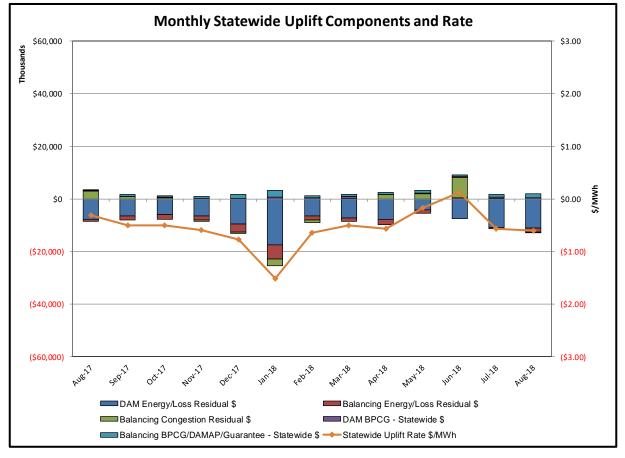


Forecasted Regional Value - CTS — Forecasted NY Value Realized NY Value
 *The calculation of CTS/LBMP Value from August 2018 forward will be based on schedule changes from RTC₁₅ instead of the rolling RTC runs, to more closely align with the external MMU's methodology of
 analyzing the CTS outcomes
 Forecasted Regional Value - CTS: Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices.
 Forecasted NY Value: NY production cost savings associated with CTS transaction energy schedules using RTC prices.

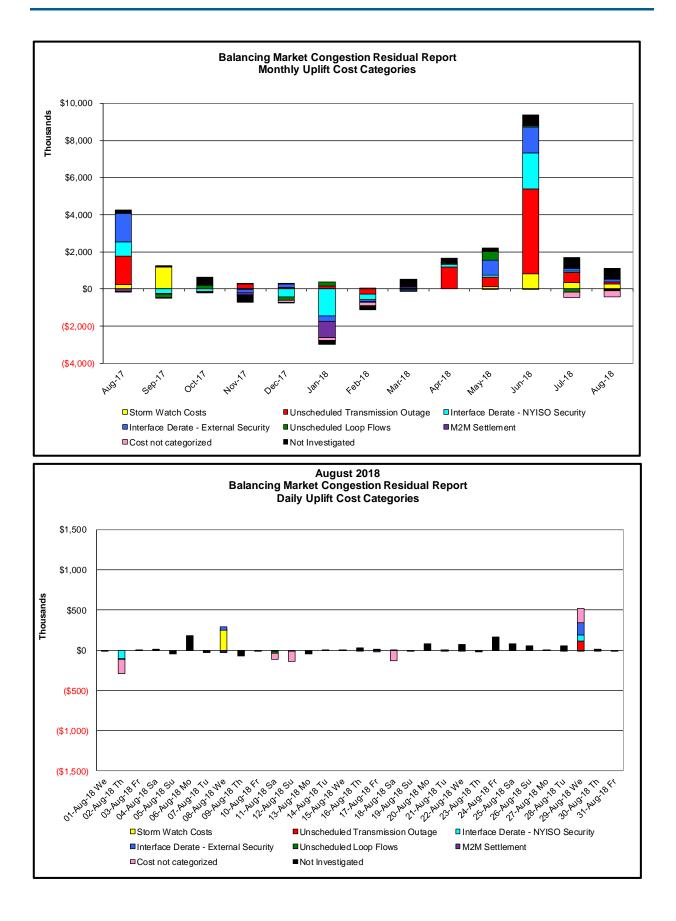
Realized NY Value: NY production cost savings associated with CTS transaction energy schedules using RTD prices.



Market Performance Metrics









Day's inv	vestigated in August	: 2,8,11,	12,18,28
Event	Date (yyyymmdd)	Hours	Description
	8/2/2018	14	Uprate Freshkills 345/138kV (#TA 1) I/o FRESHKILLS BK TB-1
	8/2/2018	14	Uprate Freshkills 345/138kV (#TA 1) I/o SCB:FRESHKIL(6):22&TB1&21192
	8/2/2018	0	Derate Greenwood-Vernon 138kV (#31231) I/o TWR:GOETHALS 22 & 21
	8/2/2018		Derate Mott Haven-Dunwoodie 345kV (#72)
			NYCA DNI Ramp Limit
	8/2/2018		PJM_AC DNI Ramp Limit
	8/8/2018		Thunderstorm Alert
	8/8/2018		NYCA DNI Ramp Limit
	8/8/2018		PJM_AC - NY Scheduling Limit
	8/8/2018		NE_AC DNI Ramp Limit
	8/11/2018		NYCA DNI Ramp Limit
	8/11/2018		NE_AC DNI Ramp Limit
	8/11/2018	6	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	8/12/2018	11	NYCA DNI Ramp Limit
	8/18/2018	1	Thunderstorm Alert
	8/29/2018	14-20	Forced outage Browns Falls-Taylorville 115kV (#3)
	8/29/2018	9	Extended Outage Sherman Creek-179th Street 138kV (#15032)
	8/29/2018	15	NYCA DNI Ramp Limit
	8/29/2018	20,21	Derate Greenwood-Kentave 138kV (#31232)
	8/29/2018	9,23	Derate Motthaven-Dunwoodie 345kV (#72)
	8/29/2018	17-19	NE_AC - NY Scheduling Limit
	8/29/2018		HQ_Cedars-NY Scheduling Limit
	8/29/2018	14-16	HQ_Chat-NY Scheduling Limit

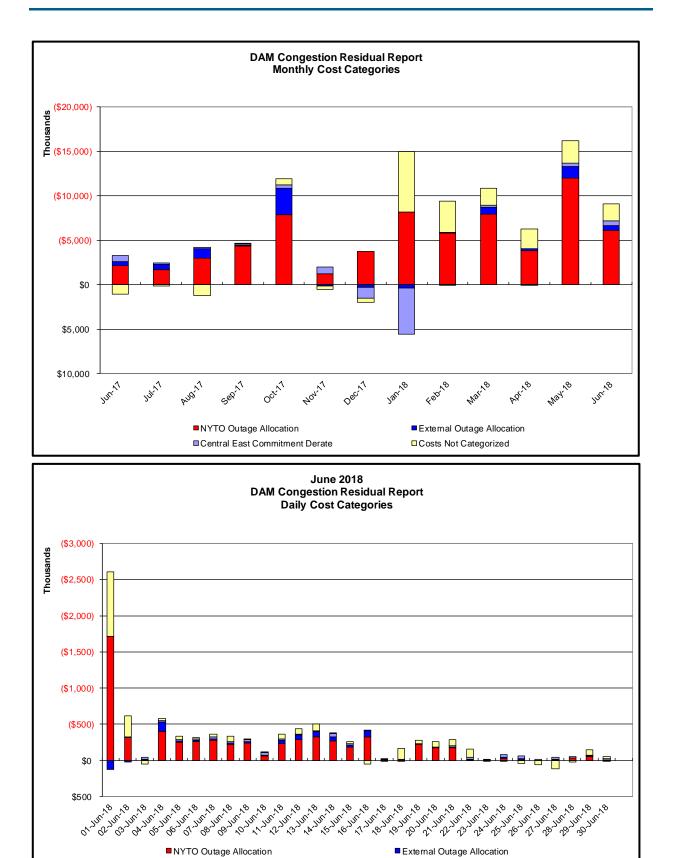
<u>Real-Time Balan</u>	cing Market Con	gestion Residual (Uplift Cost) Cate	gories
<u>Category</u> Storm Watch	<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	<u>Event Examples</u> TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers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

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



NYTO Outage Allocation

Central East Commitment Derate



External Outage Allocation

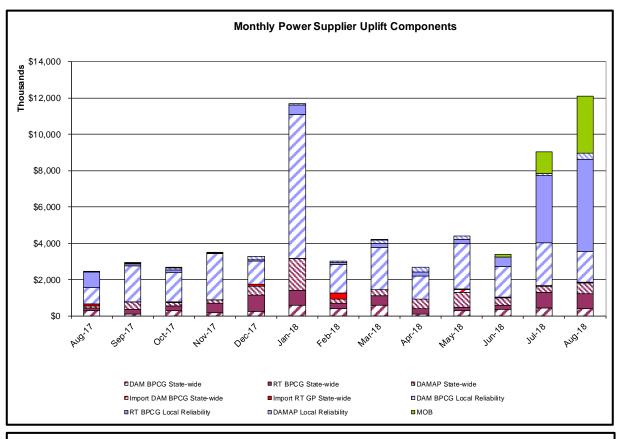
Costs Not Categorized

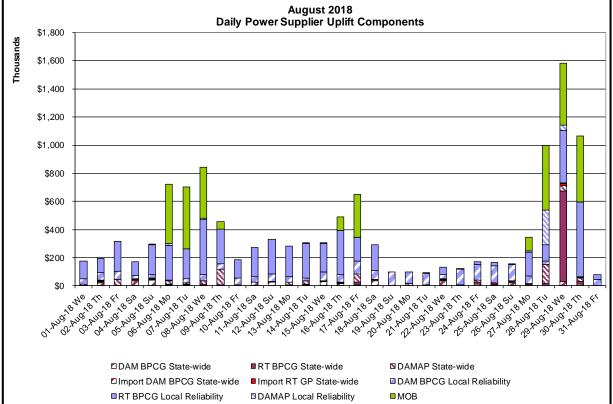


Day-Ahead Market Congestion Residual Categories

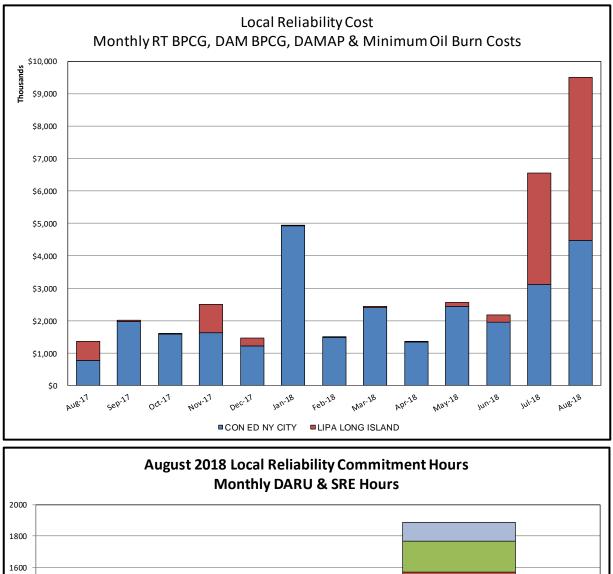
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	<u>Event Examples</u> DAM scheduled outage for equipment modeled in- service for the TCC Auction.
External Outage Allocation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

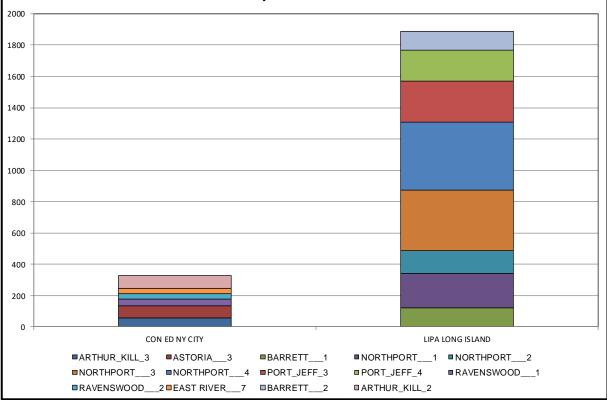




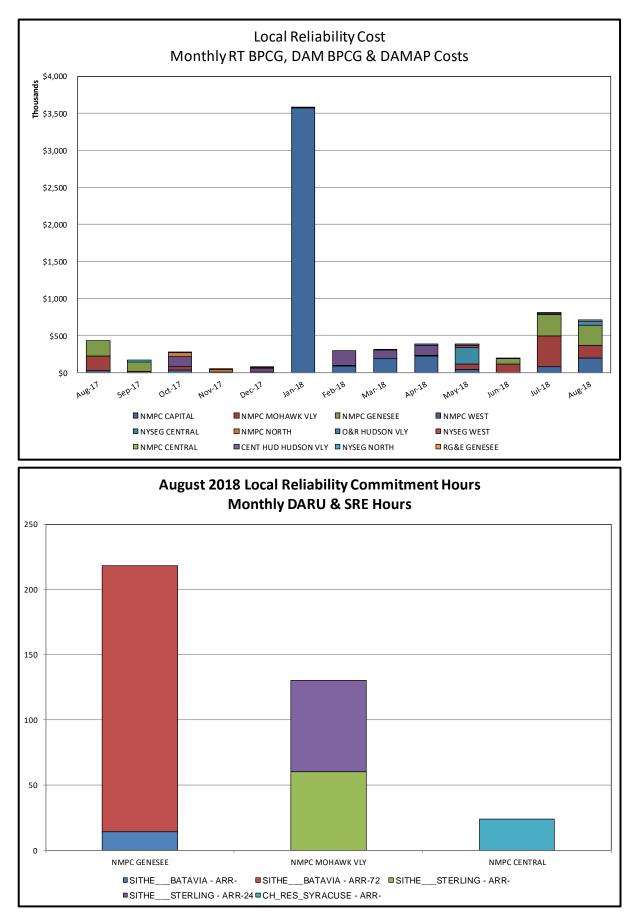




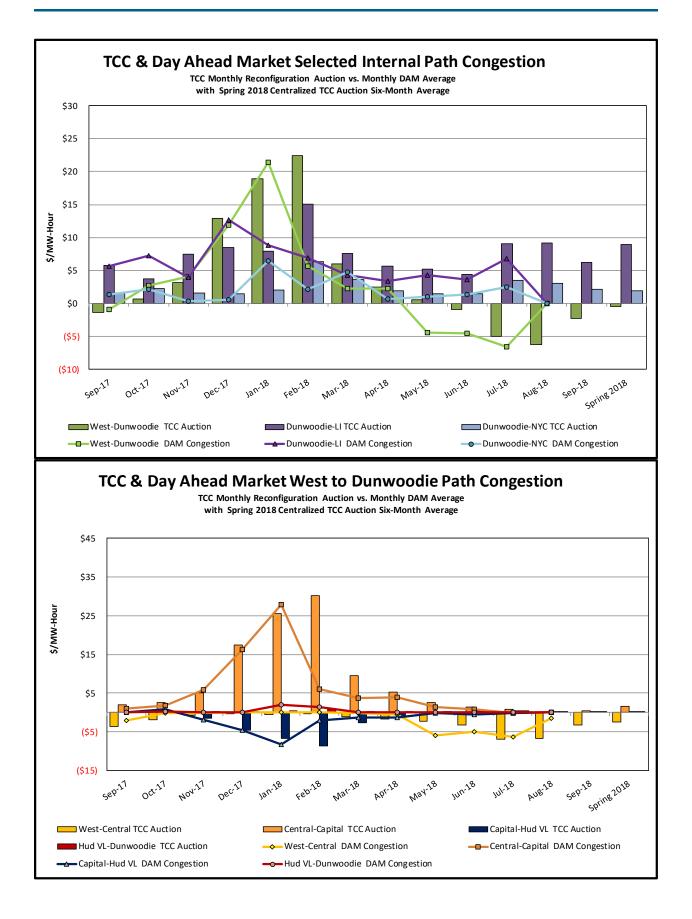




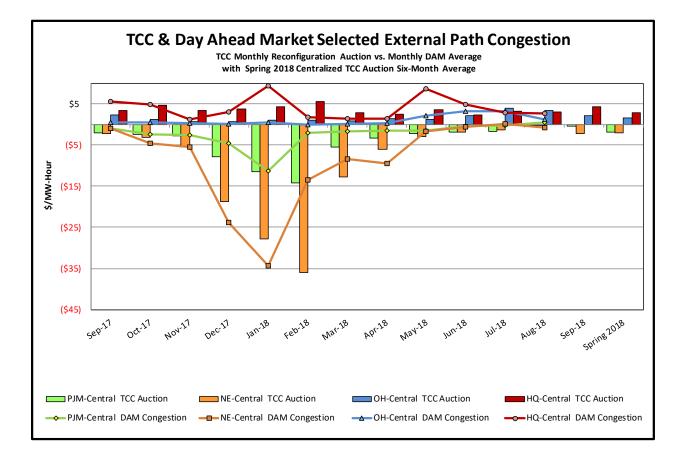




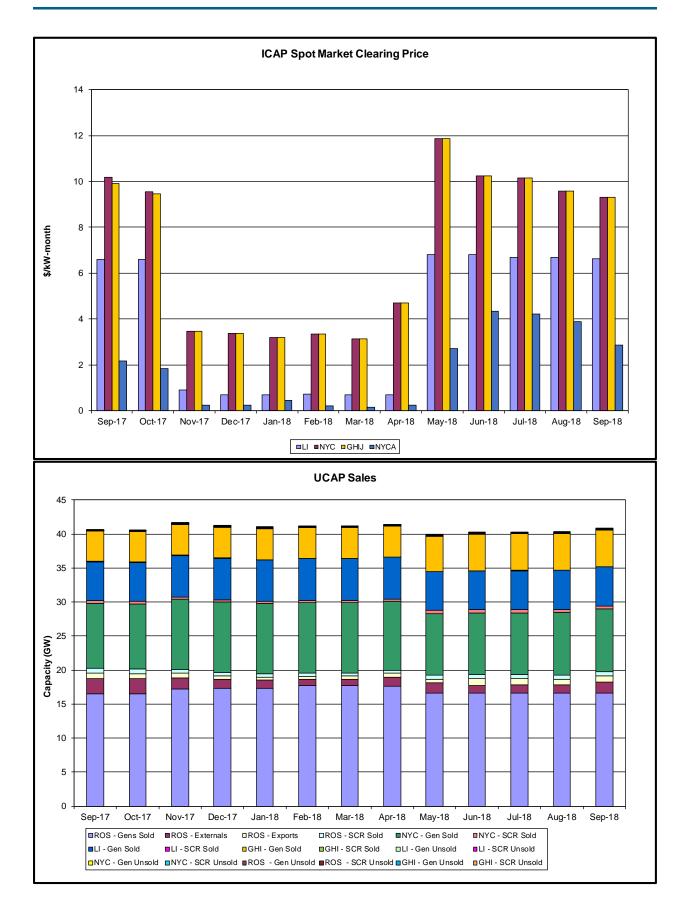






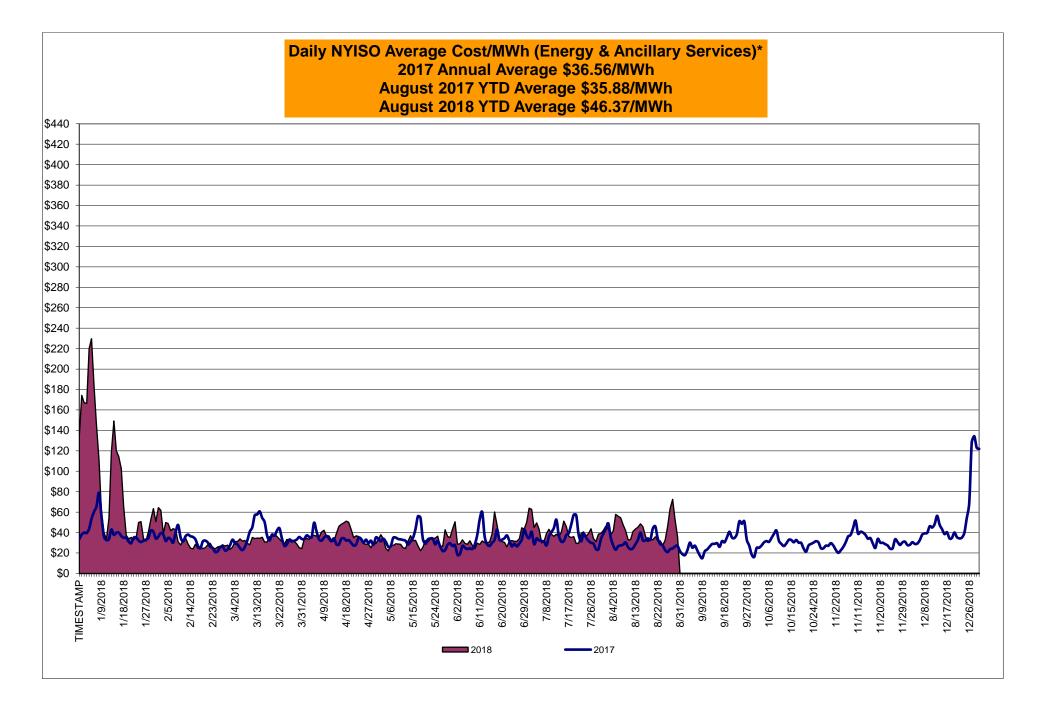






Market Performance Highlights August 2018

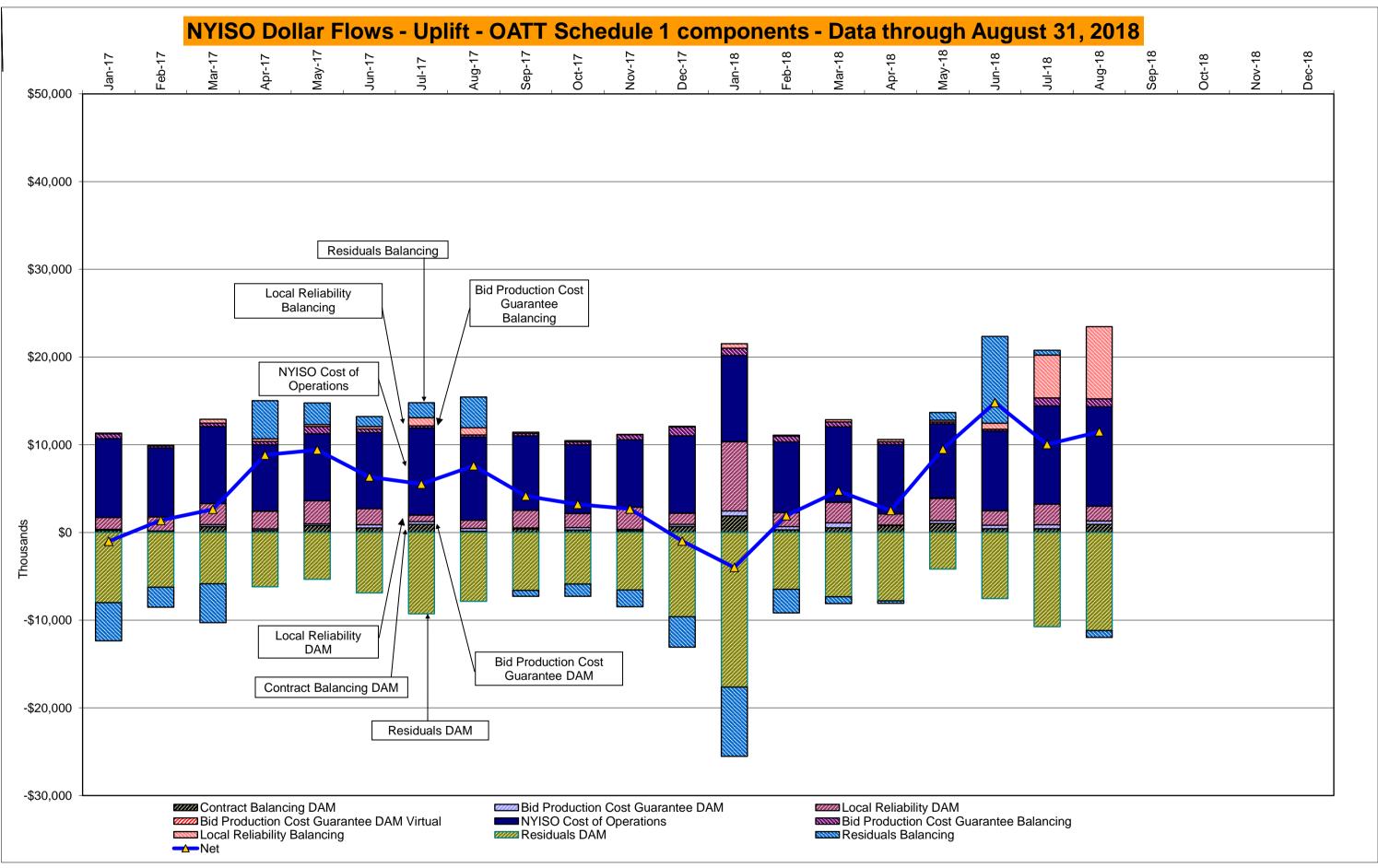
- LBMP for August is \$42.56/MWh; higher than \$39.58/MWh in July 2018 and \$30.57/MWh in August 2017.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to July.
- August 2018 average year-to-date monthly cost of \$46.37/MWh is a 30% increase from \$35.80/MWh in August 2017.
- Average daily sendout is 537 GWh/day in August; higher than 529 GWh/day in July 2018 and 477 GWh/day in August 2017.
- Natural gas and distillate prices were higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$3.00/MMBtu, up from \$2.87/MMBtu in July.
 - Natural gas prices are up 39.2% year-over-year.
 - Jet Kerosene Gulf Coast was \$15.67/MMBtu, up from \$15.05/MMBtu in July.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$15.36/MMBtu, up from \$14.81/MMBtu in July.
 - Distillate prices are up 33.8% year-over-year.
- Uplift per MWh is higher compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.02)/MWh; higher than (\$0.13)/MWh in July.
 - Local Reliability Share is \$0.59/MWh, higher than \$0.44/MWh in July.
 - Statewide Share is (\$0.61)/MWh, lower than (\$0.57)/MWh in July.
 - TSA \$ per NYC MWh is \$0.14/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than July.



* Excludes ICAP payments.

2018	January	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	<u>December</u>
LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56				
NTAC	0.71	0.58	0.88	1.09	0.88	1.00	0.93	0.72				
Reserve	0.92	0.65	0.64	0.81	0.68	0.57	0.49	0.51				
Regulation	0.15	0.15	0.16	0.12	0.14	0.16	0.09	0.09				
NYISO Cost of Operations	0.65	0.65	0.66	0.65	0.66	0.67	0.67	0.66				
FERC Fee Recovery	0.08	0.10	0.09	0.10	0.09	0.09	0.06	0.06				
Uplift	(0.92)	(0.50)	(0.31)	(0.45)	0.05	0.30	(0.13)	(0.02)				
Uplift: Local Reliability Share	0.59	0.14	0.19	0.12	0.22	0.18	0.44	0.59				
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)	(0.57)	(0.17)	0.12	(0.57)	(0.61)				
Voltage Support and Black Start	0.40	0.41	0.42	0.41	0.42	0.42	0.42	0.42				
Avg Monthly Cost	101.54	35.87	32.45	37.74	31.70	35.73	42.12	45.01				
Avg YTD Cost	101.54	72.85	60.06	54.82	50.20	47.70	46.64	46.37				
TSA \$ per NYC MWh	0.00	0.00	0.04	0.00	0.08	0.39	0.21	0.14				
2017	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
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
NTAC Reserve	0.66 0.70	1.11 0.67	0.86 0.74	1.05 0.70	0.79 0.61	0.62 0.55	0.87 0.48	0.59 0.44	0.62 0.47	0.50 0.59	0.75 0.55	0.81 0.71
NTAC Reserve Regulation	0.66 0.70 0.14	1.11 0.67 0.12	0.86 0.74 0.13	1.05 0.70 0.17	0.79 0.61 0.16	0.62 0.55 0.13	0.87 0.48 0.10	0.59 0.44 0.10	0.62 0.47 0.11	0.50 0.59 0.13	0.75 0.55 0.20	0.81 0.71 0.15
NTAC Reserve Regulation NYISO Cost of Operations	0.66 0.70 0.14 0.65	1.11 0.67 0.12 0.65	0.86 0.74 0.13 0.65	1.05 0.70 0.17 0.65	0.79 0.61 0.16 0.62	0.62 0.55 0.13 0.63	0.87 0.48 0.10 0.63	0.59 0.44 0.10 0.63	0.62 0.47 0.11 0.63	0.50 0.59 0.13 0.62	0.75 0.55 0.20 0.61	0.81 0.71 0.15 0.60
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery	0.66 0.70 0.14 0.65 0.09	1.11 0.67 0.12 0.65 0.10	0.86 0.74 0.13 0.65 0.10	1.05 0.70 0.17 0.65 0.12	0.79 0.61 0.16 0.62 0.10	0.62 0.55 0.13 0.63 0.09	0.87 0.48 0.10 0.63 0.07	0.59 0.44 0.10 0.63 0.08	0.62 0.47 0.11 0.63 0.09	0.50 0.59 0.13 0.62 0.10	0.75 0.55 0.20 0.61 0.10	0.81 0.71 0.15 0.60 0.08
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift	0.66 0.70 0.14 0.65 0.09 (0.73)	1.11 0.67 0.12 0.65 0.10 (0.54)	0.86 0.74 0.13 0.65 0.10 (0.46)	1.05 0.70 0.17 0.65 0.12 0.12	0.79 0.61 0.16 0.62 0.10 0.10	0.62 0.55 0.13 0.63 0.09 (0.37)	0.87 0.48 0.10 0.63 0.07 (0.43)	0.59 0.44 0.10 0.63 0.08 (0.19)	0.62 0.47 0.11 0.63 0.09 (0.34)	0.50 0.59 0.13 0.62 0.10 (0.36)	0.75 0.55 0.20 0.61 0.10 (0.40)	0.81 0.71 0.15 0.60 0.08 (0.68)
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	0.66 0.70 0.14 0.65 0.09 (0.73) 0.10	1.11 0.67 0.12 0.65 0.10 (0.54) 0.13	0.86 0.74 0.13 0.65 0.10 (0.46) 0.21	1.05 0.70 0.17 0.65 0.12 0.12 0.20	0.79 0.61 0.16 0.62 0.10 0.10 0.24	0.62 0.55 0.13 0.63 0.09 (0.37) 0.15	0.87 0.48 0.10 0.63 0.07 (0.43) 0.11	0.59 0.44 0.10 0.63 0.08 (0.19) 0.12	0.62 0.47 0.11 0.63 0.09 (0.34) 0.16	0.50 0.59 0.13 0.62 0.10 (0.36) 0.14	0.75 0.55 0.20 0.61 0.10 (0.40) 0.20	0.81 0.71 0.15 0.60 0.08 (0.68) 0.09
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83)	1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67)	0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67)	1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08)	0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13)	0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52)	0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54)	0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31)	0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50)	0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50)	0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60)	0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78)
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share	0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83) 0.37	1.11 0.67 0.12 0.65 0.10 (0.54) 0.13	0.86 0.74 0.13 0.65 0.10 (0.46) 0.21	1.05 0.70 0.17 0.65 0.12 0.12 0.20	0.79 0.61 0.16 0.62 0.10 0.10 0.24	0.62 0.55 0.13 0.63 0.09 (0.37) 0.15	0.87 0.48 0.10 0.63 0.07 (0.43) 0.11	0.59 0.44 0.10 0.63 0.08 (0.19) 0.12	0.62 0.47 0.11 0.63 0.09 (0.34) 0.16	0.50 0.59 0.13 0.62 0.10 (0.36) 0.14	0.75 0.55 0.20 0.61 0.10 (0.40) 0.20	0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78) 0.37
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share	0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83)	1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67)	0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67)	1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08)	0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13)	0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52)	0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54)	0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31)	0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50)	0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50)	0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60)	0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78)
NTAC Reserve Regulation NYISO Cost of Operations FERC Fee Recovery Uplift Uplift: Local Reliability Share Uplift: Statewide Share Voltage Support and Black Start	0.66 0.70 0.14 0.65 0.09 (0.73) 0.10 (0.83) 0.37	1.11 0.67 0.12 0.65 0.10 (0.54) 0.13 (0.67) 0.37	0.86 0.74 0.13 0.65 0.10 (0.46) 0.21 (0.67) 0.38	1.05 0.70 0.17 0.65 0.12 0.12 0.20 (0.08) 0.38	0.79 0.61 0.16 0.62 0.10 0.10 0.24 (0.13) 0.38	0.62 0.55 0.13 0.63 0.09 (0.37) 0.15 (0.52) 0.38	0.87 0.48 0.10 0.63 0.07 (0.43) 0.11 (0.54) 0.38	0.59 0.44 0.10 0.63 0.08 (0.19) 0.12 (0.31) 0.38	0.62 0.47 0.11 0.63 0.09 (0.34) 0.16 (0.50) 0.38	0.50 0.59 0.13 0.62 0.10 (0.36) 0.14 (0.50) 0.38	0.75 0.55 0.20 0.61 0.10 (0.40) 0.20 (0.60) 0.37	0.81 0.71 0.15 0.60 0.08 (0.68) 0.09 (0.78) 0.37

<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.

NYISO Markets Transactions

2018	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073	13,983,384	16,839,994					
DAM LSE Internal LBMP Energy Sales	59%	57%	58%	60%	61%	61%	65%	65%				
DAM External TC LBMP Energy Sales	4%	3%	2%	2%	2%	1%	1%	2%				
DAM Bilateral - Internal Bilaterals	29%	31%	32%	30%	29%	30%	26%	25%				
DAM Bilateral - Importi/Non-LBMP Market Bilaterals	5%	5%	5%	5%	5%	5%	4%	4%				
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%				
DAM Bilateral - Wheel Through Bilaterals	1%	2%	2%	2%	2%	2%	2%	2%				
Balancing Energy Market MWh	-149,619	-299,377	-386,811	-72,862	-29,539	-354,112	-80,438	-44,732				
Balancing Energy LSE Internal LBMP Energy Sales	-147%	-101%	-128%	-208%	-458%	-113%	-123%	-75%				
Balancing Energy External TC LBMP Energy Sales	74%	24%	37%	189%	400 <i>%</i> 564%	29%	129%	209%				
Balancing Energy Bilateral - Internal Bilaterals	9%	5%	0%	-11%	29%	25 % 5%	18%	20370				
Balancing Energy Bilateral - Importi/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%				
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%	9%	6%	34%	51%	3%	14%	25%				
Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-36%	-15%	-103%	-287%	-23%	-138%	-281%				
Transactions Summary	0070	0070	1070	10070	20170	2070	10070	20170				
LBMP	63%	59%	59%	62%	63%	61%	66%	68%				
Internal Bilaterals	30%	32%	33%	30%	29%	31%	27%	25%				
Import Bilaterals	5%	5%	55 % 6%	5%	29% 5%	5%	4%	23 <i>%</i> 4%				
Export Bilaterals	2%	2%	2%	3 <i>%</i> 2%	3 % 2%	1%	4 <i>%</i> 1%	4 <i>%</i>				
Wheels Through	1%	1%	1%	1%	1%	2%	1%	1%				
Market Share of Total Load	170	170	170	170	170	270	170	170				
Day Ahead Market	101.0%	102.4%	102.9%	100.6%	100.2%	102.6%	100.5%	100.3%				
Balancing Energy +	-1.0%	-2.4%	-2.9%	-0.6%	-0.2%	-2.6%	-0.5%	-0.3%				
Total MWH	15,004,132						16,759,556					
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537				
		.20					020					
2017	lanuary	February	March	April	May	lune	luly	August	Sentember	October	November	December
2017 Day Abaad Market MW/b	<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
Day Ahead Market MWh	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695	13,252,368	13,042,826	14,829,403
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	14,135,019 57%	12,565,206 57%	13,983,865 55%	12,061,475 54%	12,966,981 58%	14,406,180 60%	16,505,801 62%	15,948,927 61%	14,100,695 57%	13,252,368 55%	13,042,826 53%	14,829,403 55%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	14,135,019 57% 2%	12,565,206 57% 2%	13,983,865 55% 1%	12,061,475 54% 1%	12,966,981 58% 1%	14,406,180 60% 1%	16,505,801 62% 1%	15,948,927 61% 1%	14,100,695 57% 1%	13,252,368 55% 2%	13,042,826 53% 3%	14,829,403 55% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	14,135,019 57% 2% 32%	12,565,206 57% 2% 32%	13,983,865 55% 1% 34%	12,061,475 54% 1% 35%	12,966,981 58% 1% 33%	14,406,180 60% 1% 31%	16,505,801 62% 1% 29%	15,948,927 61% 1% 29%	14,100,695 57% 1% 32%	13,252,368 55% 2% 34%	13,042,826 53% 3% 34%	14,829,403 55% 5% 32%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5%	12,565,206 57% 2% 32% 5%	13,983,865 55% 1% 34% 5%	12,061,475 54% 1% 35% 6%	12,966,981 58% 1% 33% 4%	14,406,180 60% 1% 31% 5%	16,505,801 62% 1% 29% 4%	15,948,927 61% 1% 29% 5%	14,100,695 57% 1% 32% 5%	13,252,368 55% 2% 34% 5%	13,042,826 53% 3% 34% 5%	14,829,403 55% 5% 32% 5%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2%	12,565,206 57% 2% 32% 5% 2%	13,983,865 55% 1% 34% 5% 2%	12,061,475 54% 1% 35% 6% 2%	12,966,981 58% 1% 33% 4% 2%	14,406,180 60% 1% 31% 5% 2%	16,505,801 62% 1% 29% 4% 1%	15,948,927 61% 1% 29% 5% 2%	14,100,695 57% 1% 32% 5% 2%	13,252,368 55% 2% 34% 5% 2%	13,042,826 53% 3% 34% 5% 2%	14,829,403 55% 5% 32% 5% 2%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2%	12,966,981 58% 1% 33% 4% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2%	16,505,801 62% 1% 29% 4% 1% 3%	15,948,927 61% 1% 29% 5% 2% 3%	14,100,695 57% 1% 32% 5% 2% 4%	13,252,368 55% 2% 34% 5% 2% 2% 2%	13,042,826 53% 3% 34% 5% 2% 3%	14,829,403 55% 5% 32% 5% 2% 2%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWh	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448	12,565,206 57% 2% 32% 5% 2% 2% 2% -407,284	13,983,865 55% 1% 34% 5% 2% 2% 2% -509,053	12,061,475 54% 1% 35% 6% 2% 2% 2% -466,426	12,966,981 58% 1% 33% 4% 2% 2% -666,048	14,406,180 60% 1% 31% 5% 2% 2% 2% -564,312	16,505,801 62% 1% 29% 4% 1% 3% -747,473	15,948,927 61% 1% 29% 5% 2% 3% -853,898	14,100,695 57% 1% 32% 5% 2% 4% -633,990	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721	13,042,826 53% 3% 34% 5% 2% 3% -410,072	14,829,403 55% 5% 32% 5% 2% 2% -254,003
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy Sales	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108%	14,829,403 55% 5% 32% 5% 2% 2% 2% -254,003 -99%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy External TC LBMP Energy Sales	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448 -157% 64%	12,565,206 57% 2% 32% 5% 2% 2% 2% -407,284 -132% 39%	13,983,865 55% 1% 34% 5% 2% 2% 2% -509,053 -148% 44%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28%	14,406,180 60% 1% 31% 5% 2% 2% 2% -564,312 -114% 23%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -853,898 -87% 13%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12%	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721 -102% 26%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5%	13,042,826 53% 3% 34% 5% 2% 2% 3% -410,072 -108% 45% 5%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448 -157% 64% 15% 0%	12,565,206 57% 2% 32% 5% 2% 2% 2% -407,284 -132% 39% 8% 4%	13,983,865 55% 1% 34% 5% 2% 2% 2% -509,053 -148% 44% 12% 0%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0%	12,966,981 58% 1% 33% 4% 2% 2% 2% -666,048 -120% 28% 1% 0%	14,406,180 60% 1% 31% 5% 2% 2% 2% 2% -564,312 -114% 23% 4% 0%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0%	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721 -102% 26% 5% 0%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1%		14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4%	13,042,826 53% 3% 34% 5% 2% 2% 3% -410,072 -108% 45% 5% 0% 7%	14,829,403 55% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% 2% -256,448 -157% 64% 15% 0%	12,565,206 57% 2% 32% 5% 2% 2% 2% -407,284 -132% 39% 8% 4%	13,983,865 55% 1% 34% 5% 2% 2% 2% -509,053 -148% 44% 12% 0%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0%	12,966,981 58% 1% 33% 4% 2% 2% 2% -666,048 -120% 28% 1% 0%	14,406,180 60% 1% 31% 5% 2% 2% 2% 2% -564,312 -114% 23% 4% 0%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0%	13,252,368 55% 2% 34% 5% 2% 2% 2% -510,721 -102% 26% 5% 0%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Wheel Through Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49%	14,829,403 55% 5% 32% 5% 2% -254,003 -99% 25% -1% 0% 9% -34%
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Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral SMpPInternal BilateralsImport BilateralsExport BilateralsWheels ThroughMarket Share of Total Load	14,135,019 57% 2% 32% 5% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2%	12,565,206 57% 2% 32% 5% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% -466,426 -115% 22% 5% 0% 4% -15% 5% 0% 4% -15%	12,966,981 58% 1% 33% 4% 2% 2% -6666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	14,829,403 55% 5% 32% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBuport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead Market	14,135,019 57% 2% 32% 5% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2%	12,565,206 57% 2% 32% 5% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 55% 36% 5% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 2%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 56% 36% 5% 2% 1%	14,829,403 55% 5% 32% 5% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBuport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2% 2% 101.8% -1.8%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% 2% 2% 103.3% -3.3%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 5% -13% 55% 36% 5% 2% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6% 2% 2% 2% 2% 104.0%	12,966,981 58% 1% 33% 4% 2% 2% -6666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1% 104.1% -4.1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1% 104.0% -4.0%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 5% 2% 36% 5% 2% 1% 103.2% -3.2%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 5% 2% 1% 101.7% -1.7%

+ 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: 9/11/2018 11:34 AM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

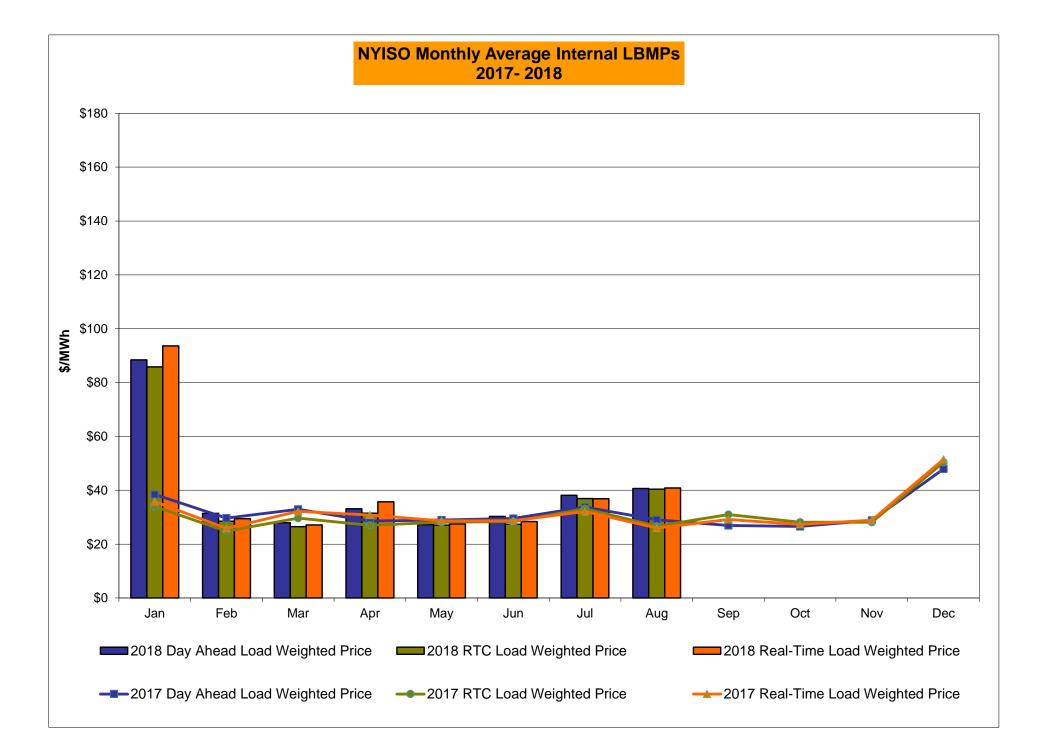
NYISO Markets 2018 Energy Statistics

	<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	\$32.40	\$25.97	\$28.41	\$35.73	\$38.00	
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25	\$16.51	
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26	\$30.27	\$38.14	\$40.64	
RTC LBMP									
Price *	\$81.65	\$27.73	\$25.99	\$30.80	\$25.40	\$26.06	\$34.65	\$38.13	
Standard Deviation	\$60.83	\$11.96	\$8.99	\$14.30	\$20.37	\$12.78	\$17.44	\$20.05	
Load Weighted Price **	\$85.85	\$28.54	\$26.46	\$31.47	\$27.08	\$27.35	\$36.93	\$40.40	
REAL TIME LBMP									
Price *	\$87.94	\$28.50	\$26.49	\$34.53	\$25.57	\$26.31	\$34.34	\$38.07	
Standard Deviation	\$87.41	\$17.36	\$12.25	\$26.57	\$23.49	\$24.34	\$18.44	\$27.21	
Load Weighted Price **	\$93.59	\$29.49	\$27.09	\$35.72	\$27.47	\$28.38	\$36.84	\$40.87	
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537	

NYISO Markets 2017 Energy Statistics

	<u>January</u>	February	March	<u>April</u>	May	June	July	August	September	<u>October</u>	November [December
DAY AHEAD LBMP Price *	\$37.22	¢00.04	¢22.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	ድንድ ዕድ	<u> </u>	\$27.88	\$45.46
Standard Deviation	\$37.22 \$13.20	\$28.84 \$7.97	\$32.04 \$11.95	\$27.70 \$7.66	\$27.00 \$9.47	\$27.37 \$12.37	\$31.64 \$13.51	\$27.20 \$10.60	\$25.05 \$12.09	\$25.49 \$8.53	⊅27.88 \$9.87	\$45.46 \$31.56
		•			•	•			•	\$0.53 \$26.57	•	\$31.50 \$47.90
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95	\$20.5 <i>1</i>	\$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.

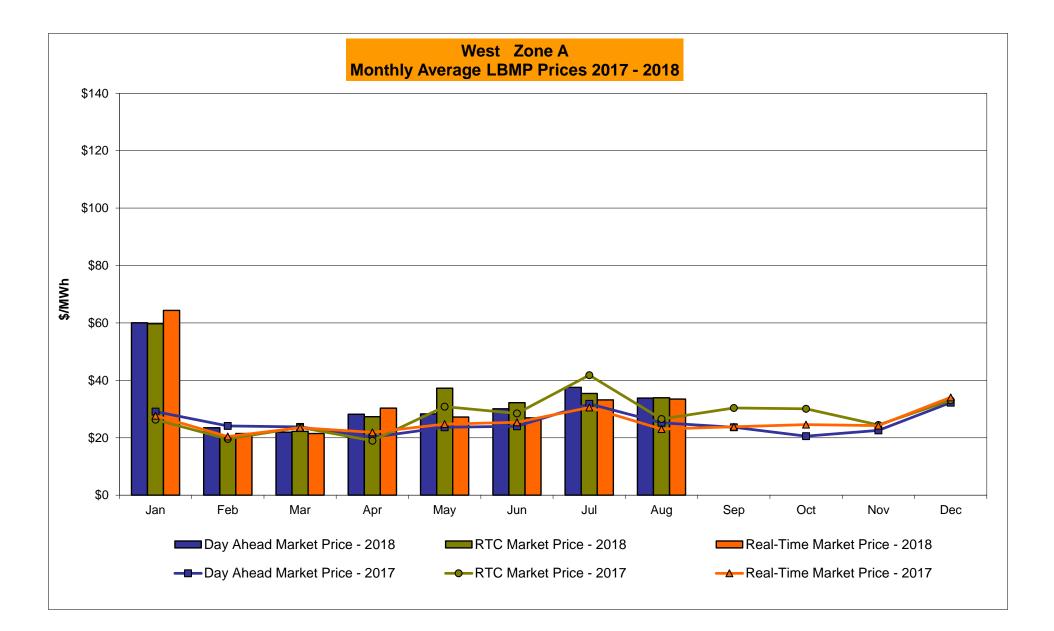


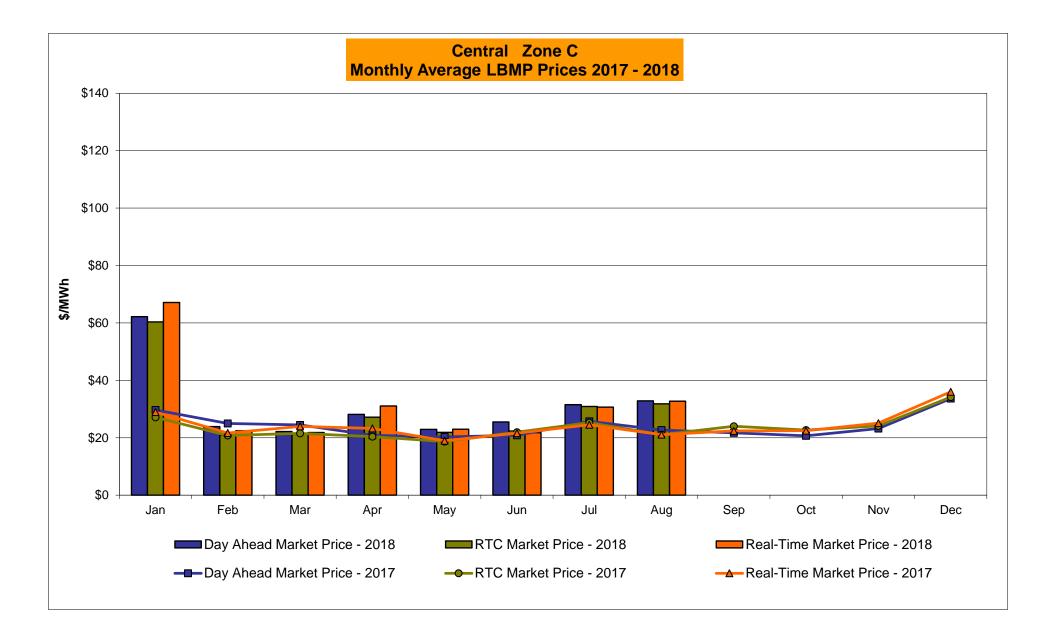
August 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

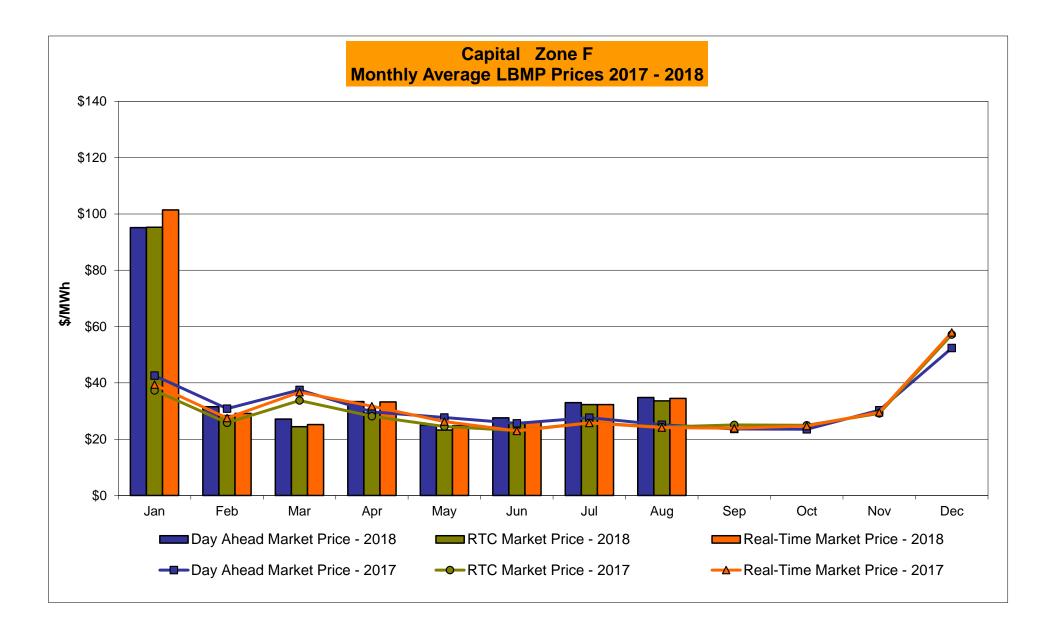
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	33.84	31.94	27.45	32.87	33.41	34.79	35.59	35.90	35.93	39.36	48.09
Standard Deviation	15.74	11.82	9.56	12.79	13.10	12.86	13.52	13.94	13.94	16.11	29.57
RTC LBMP											
Unweighted Price *	33.93	30.82	28.14	31.81	32.63	33.59	34.05	34.18	34.69	39.33	51.83
Standard Deviation	30.53	11.23	13.69	12.14	13.01	12.72	12.60	12.75	19.71	22.61	64.16
REAL TIME LBMP											
Unweighted Price *	33.46	31.91	29.14	32.74	33.81	34.51	35.03	35.23	35.26	41.34	44.97
Standard Deviation	27.54	23.07	20.95	23.58	24.82	24.88	25.11	25.26	25.17	31.99	39.00

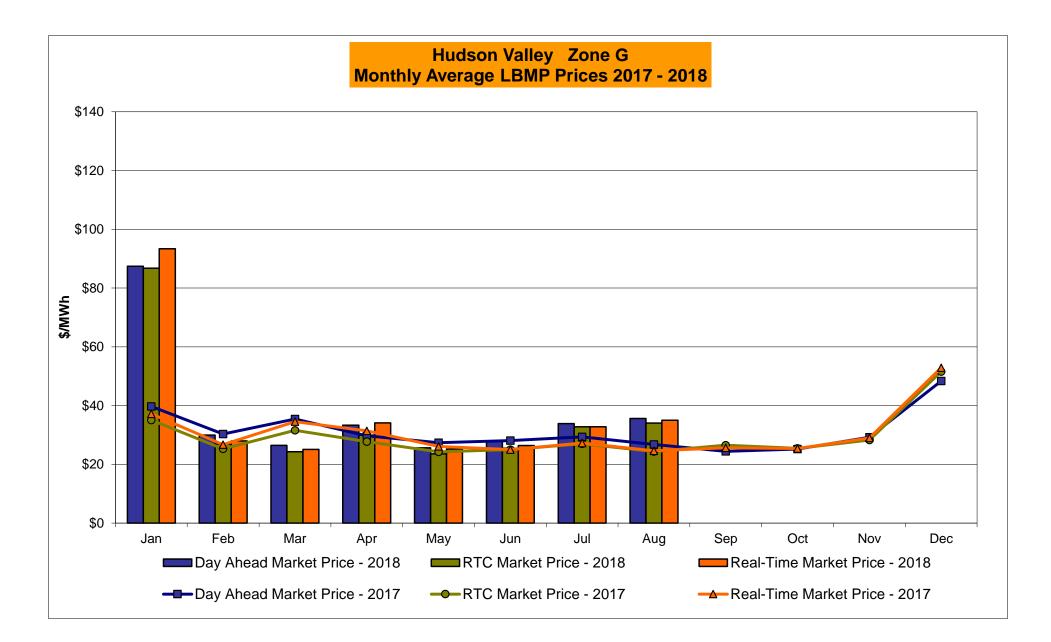
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
	7	7	7	7	7	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	<u>Controllable</u>	Controllable
DAY AHEAD LBMP	<u>Zone O</u>	<u>Zone M</u>	<u>Zone M</u>	<u>Zone P</u>	<u>Zone N</u>	Line	Line	<u>Line</u>	Line	Line	Line
Unweighted Price *	30.30	28.57	28.57	33.08	35.63	41.66	38.56	41.03	35.50	36.71	26.59
Standard Deviation	9.59	10.27	10.27	11.77	13.91	21.81	14.97	22.89	11.97	14.41	9.06
RTC LBMP											
Unweighted Price *	28.63	28.43	28.43	31.28	37.95	50.27	45.28	45.92	32.94	34.99	28.45
Standard Deviation	12.43	13.17	13.17	11.60	35.24	62.69	54.56	56.69	14.79	18.45	20.65
REAL TIME LBMP											
Unweighted Price *	29.99	29.80	29.80	31.97	36.70	44.97	39.26	41.69	30.56	35.72	28.96
Standard Deviation	22.31	20.68	20.68	23.09	33.40	43.35	34.70	37.06	36.86	24.70	23.57

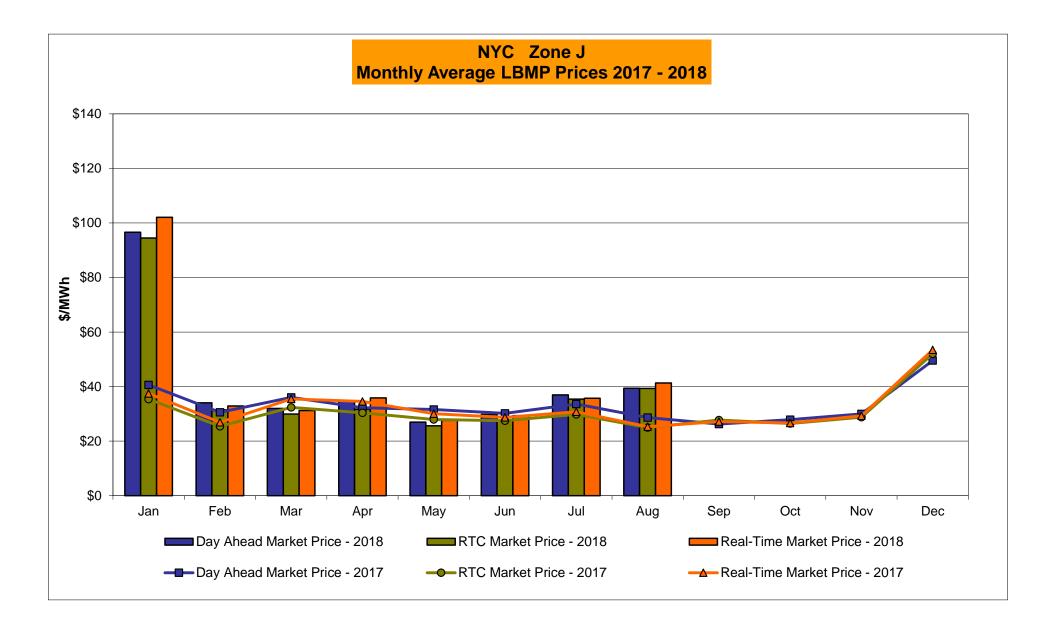
* Straight LBMP averages

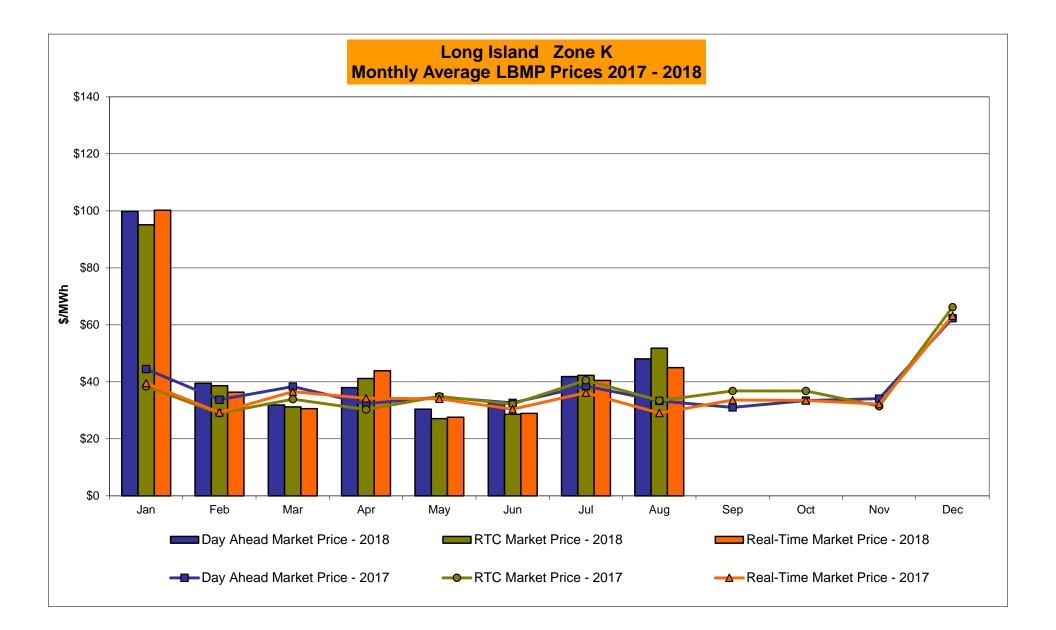


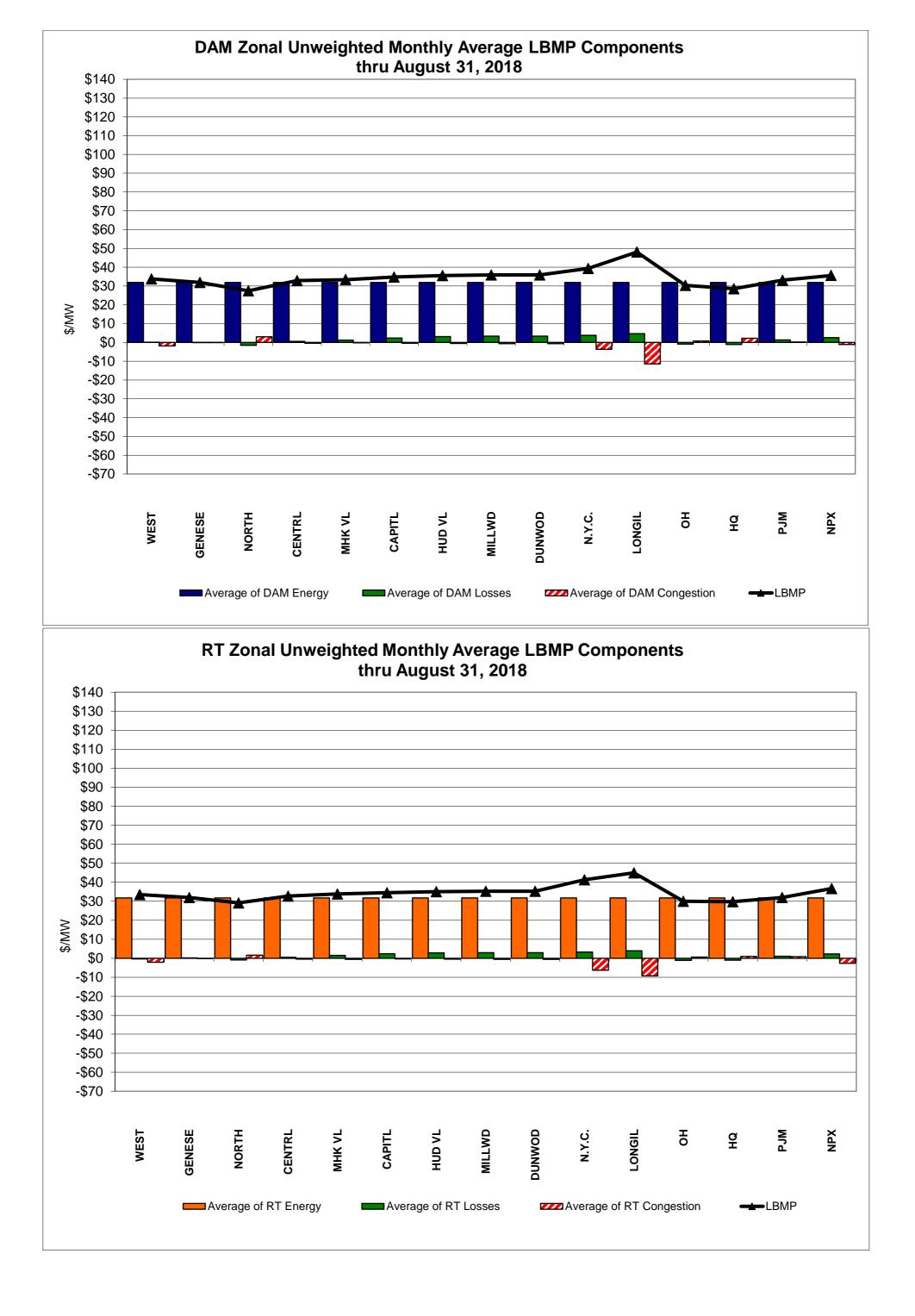




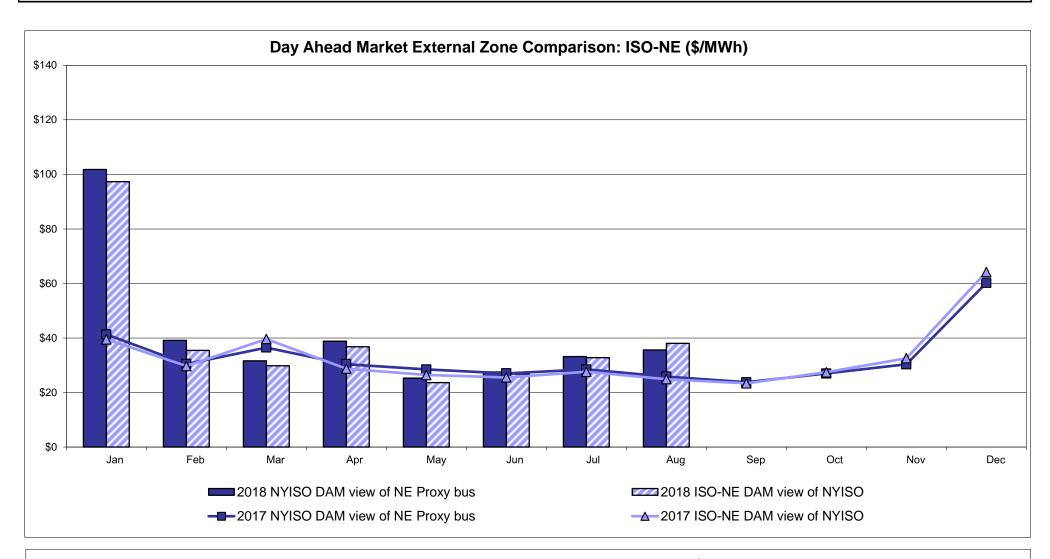


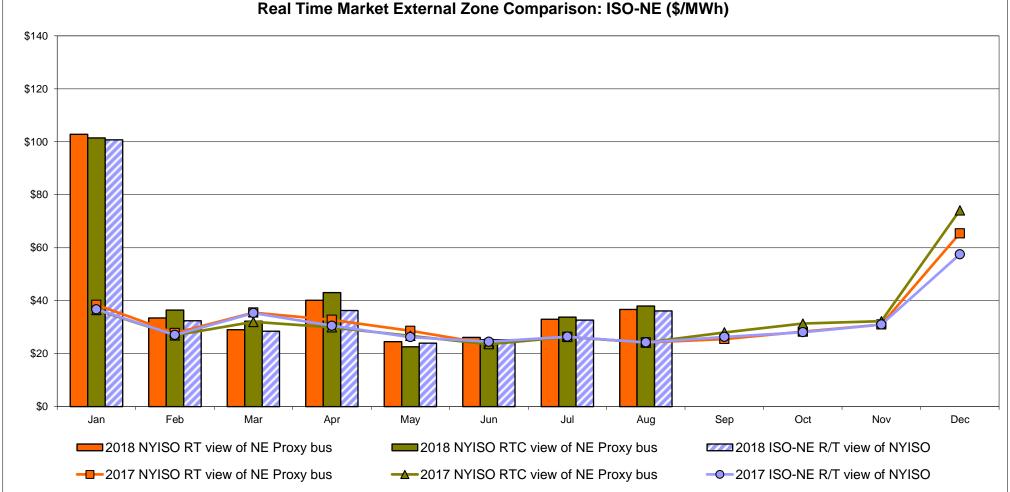


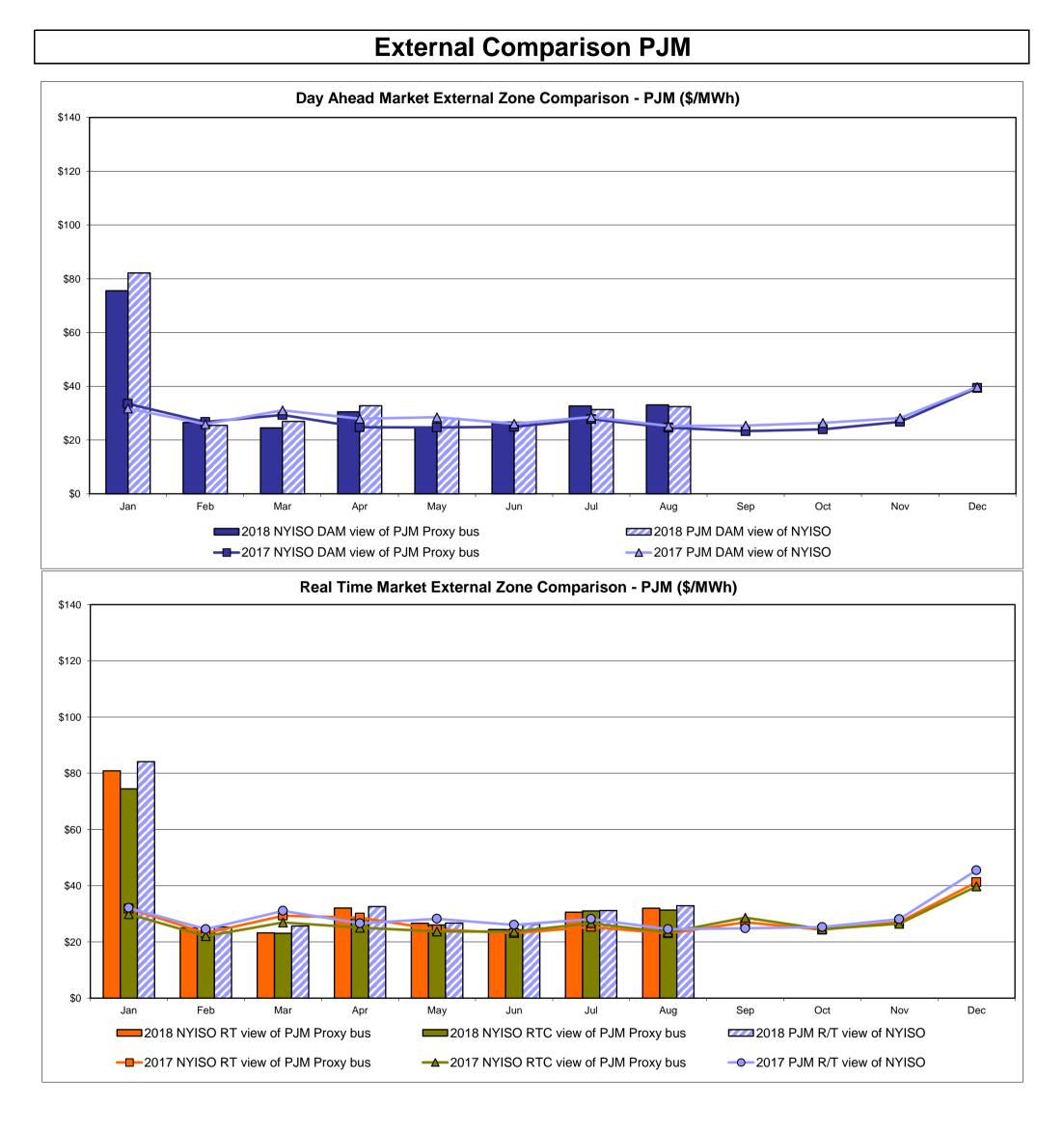




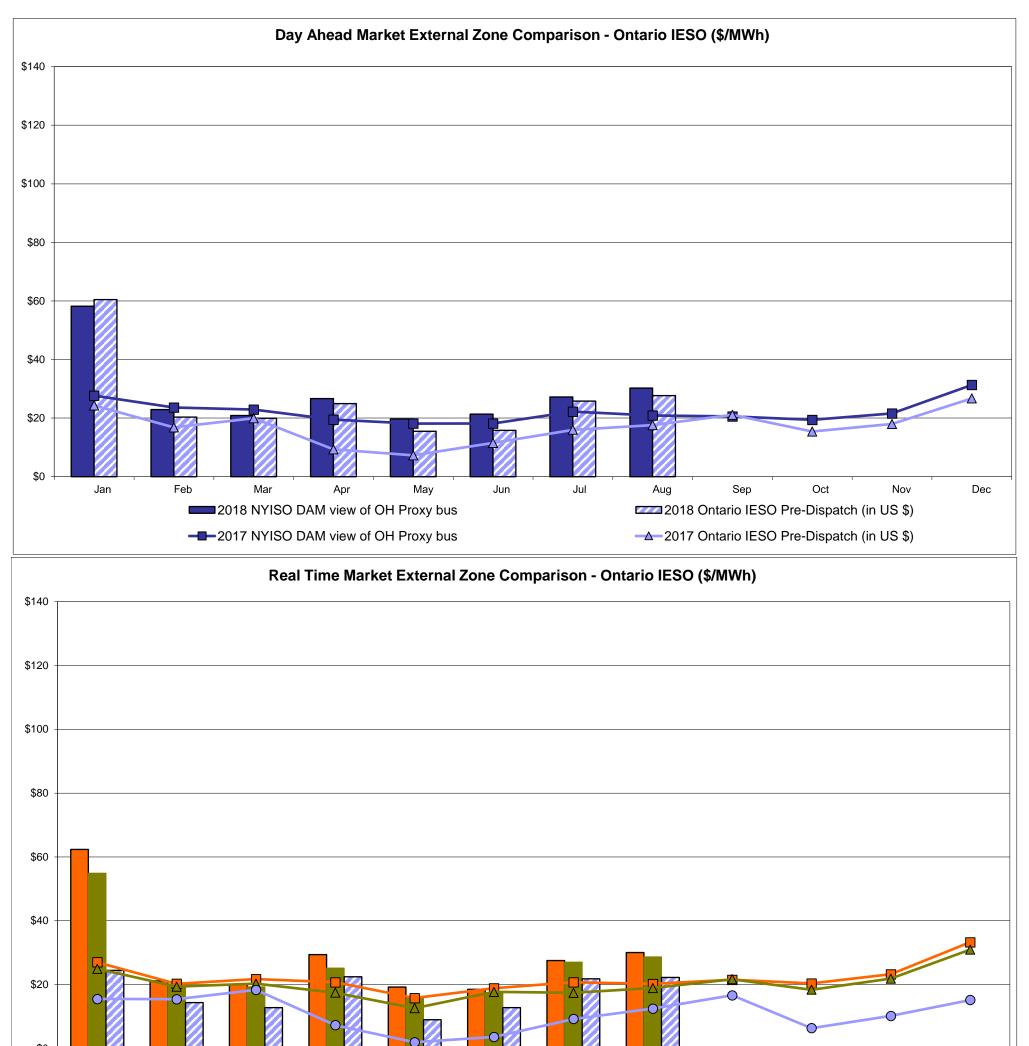
External Comparison ISO-New England





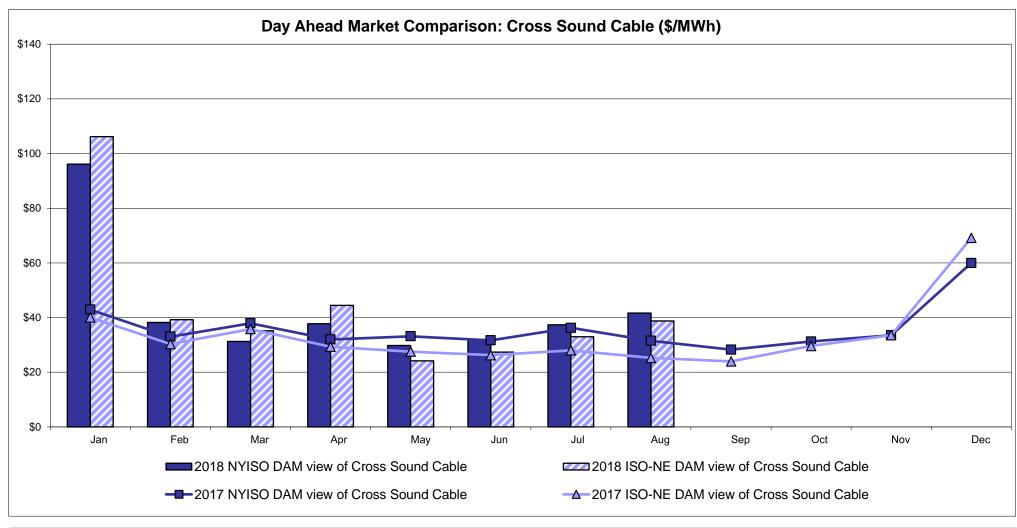


External Comparison Ontario IESO

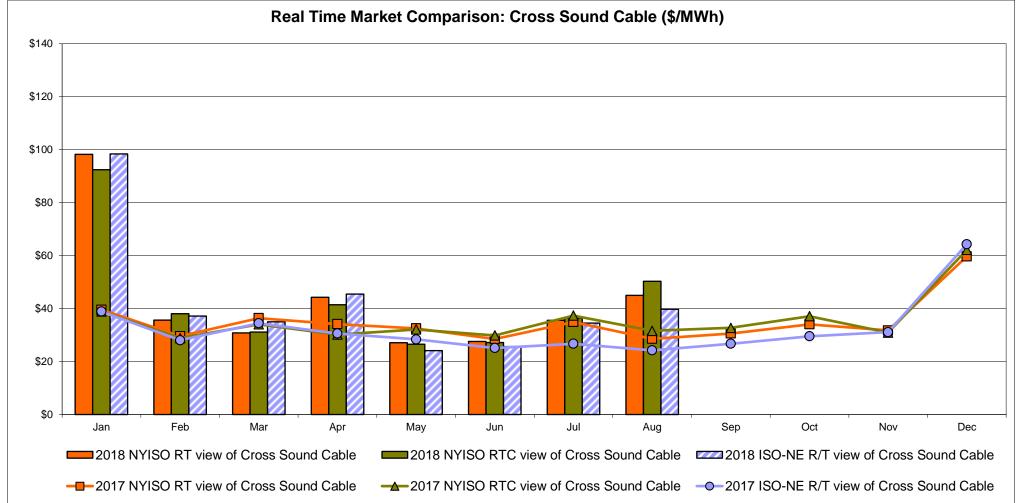


\$0 +	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	201	8 NYISO RT v	riew of OH Pro	oxy bus	2018	NYISO RTC	view of OH Pi	roxy bus	2018	Ontario IESC	DHOEP (in US	S \$)
	 201	7 NYISO RT v	riew of OH Pro	oxy bus	 2017	NYISO RTC	view of OH Pr	oxy bus	-0-2017	Ontario IESC	DHOEP (in US	S \$)

Notes: Exchange factor used for August 2018 was 0.766753565404079 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



External Controllable Line: Cross Sound Cable (New England)

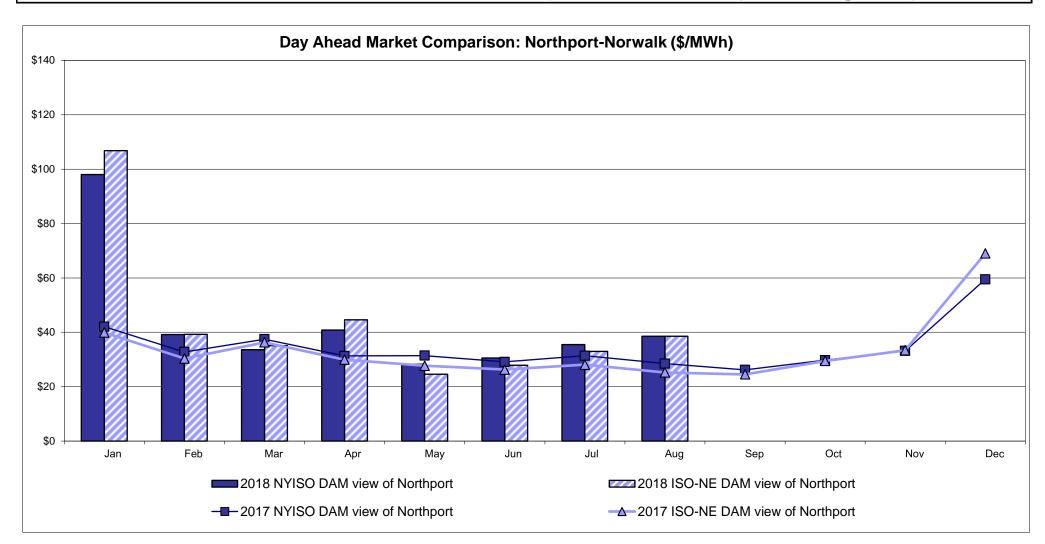


Note:

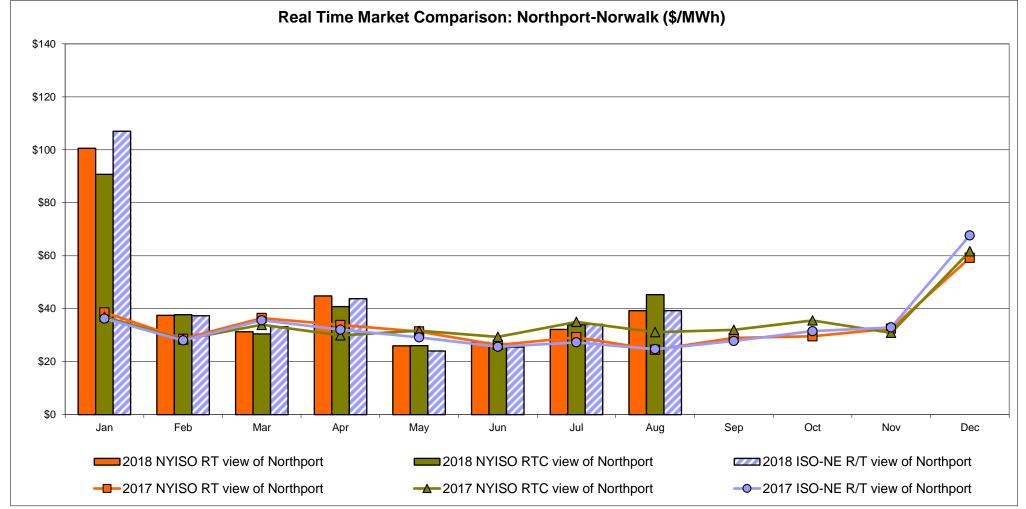
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



External Controllable Line: Northport - Norwalk (New England)



Market Mitigation and Analysis Prepared: 9/11/2018 11:33 AM

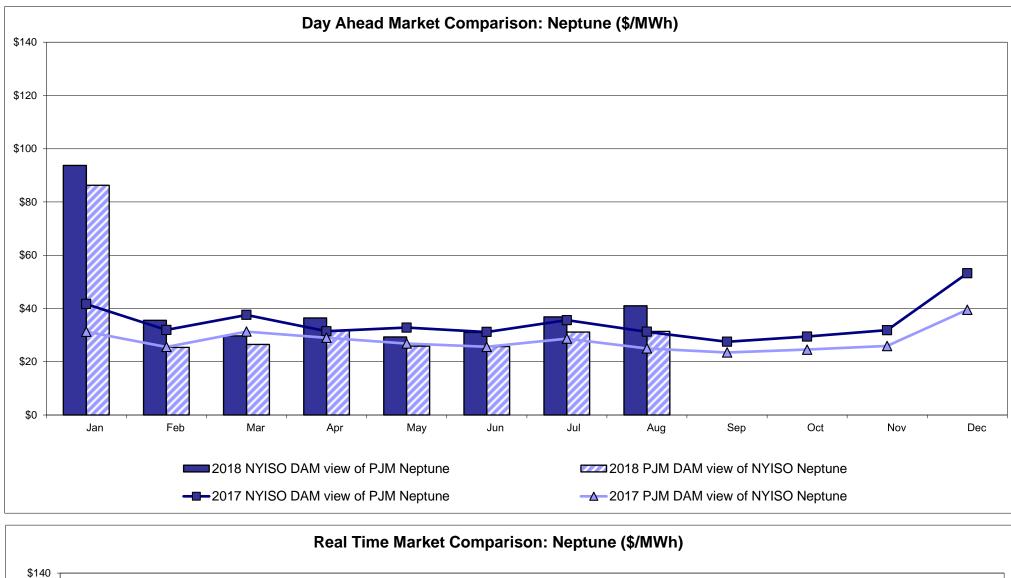
ISO-NE Forecast is an advisory posting @ 18:00 day before.

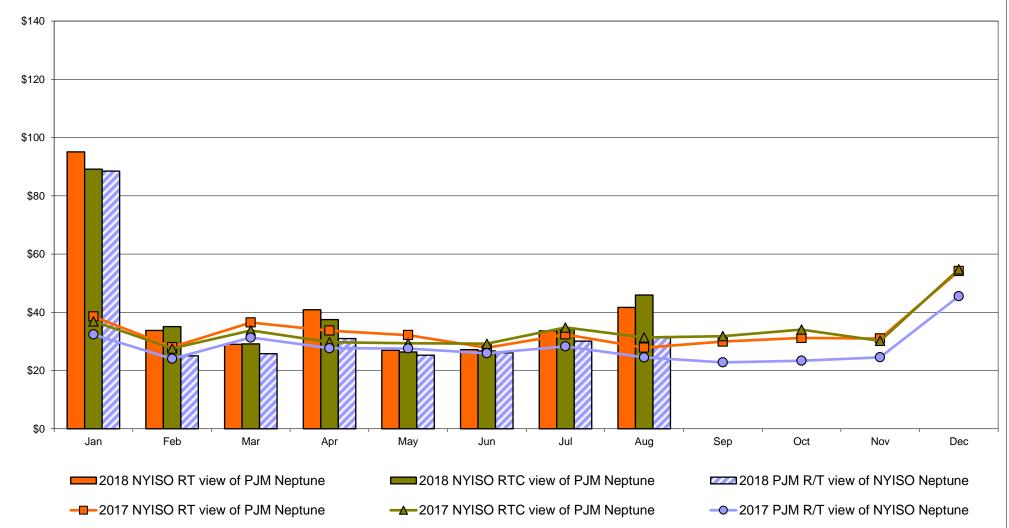
The DAM and R/T prices at the 1385 interface are used for NYISO.

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

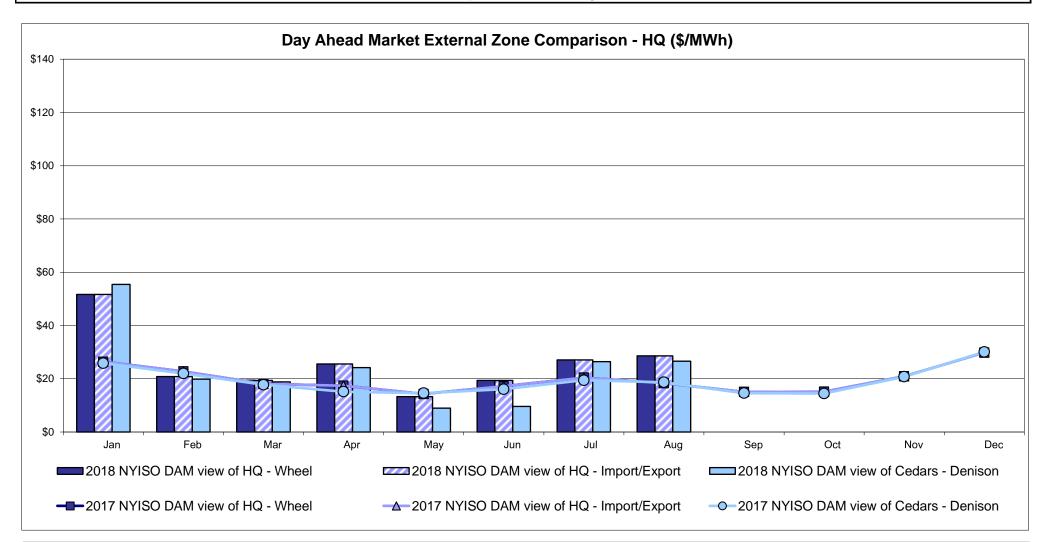
Note:

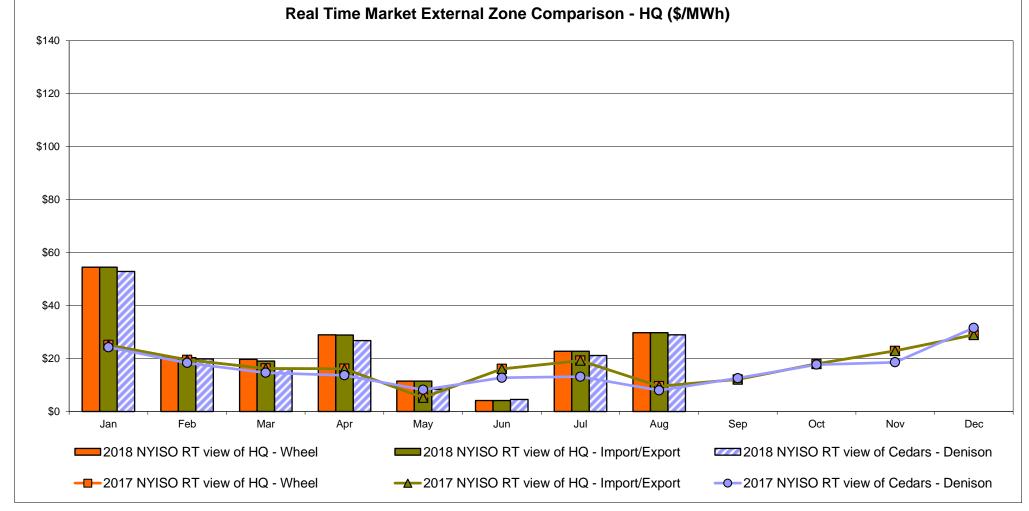






External Comparison Hydro-Quebec

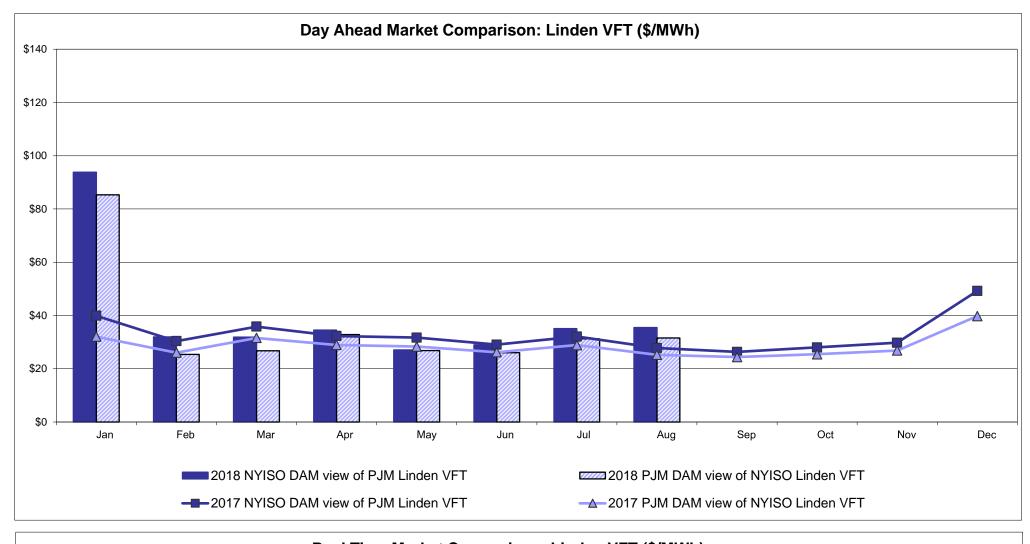


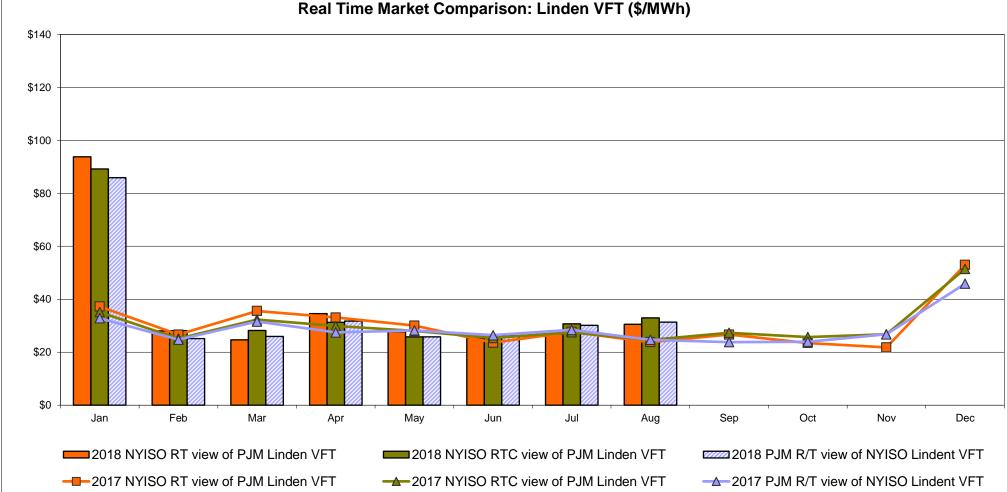


Note:

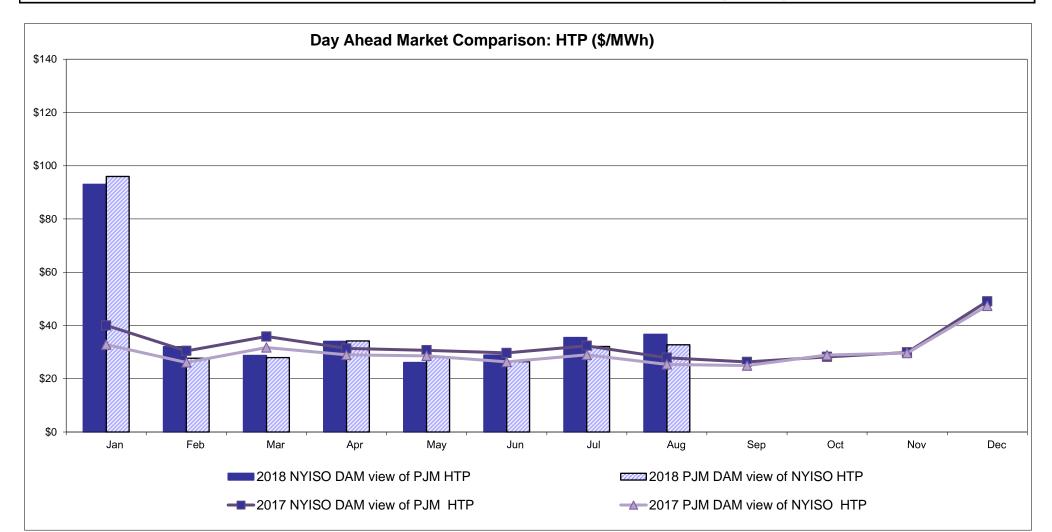
Hydro-Quebec Prices are unavailable.

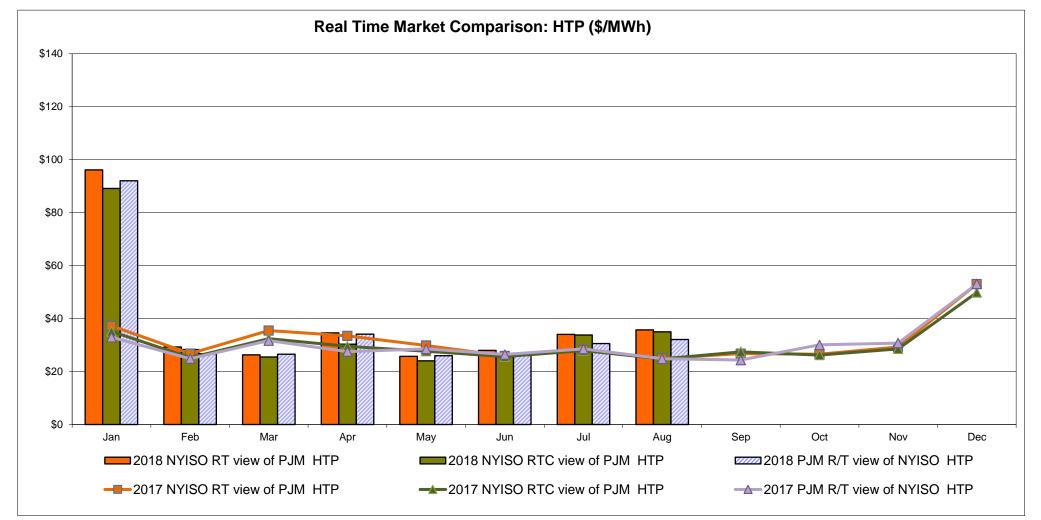






External Controllable Line: Hudson (PJM)



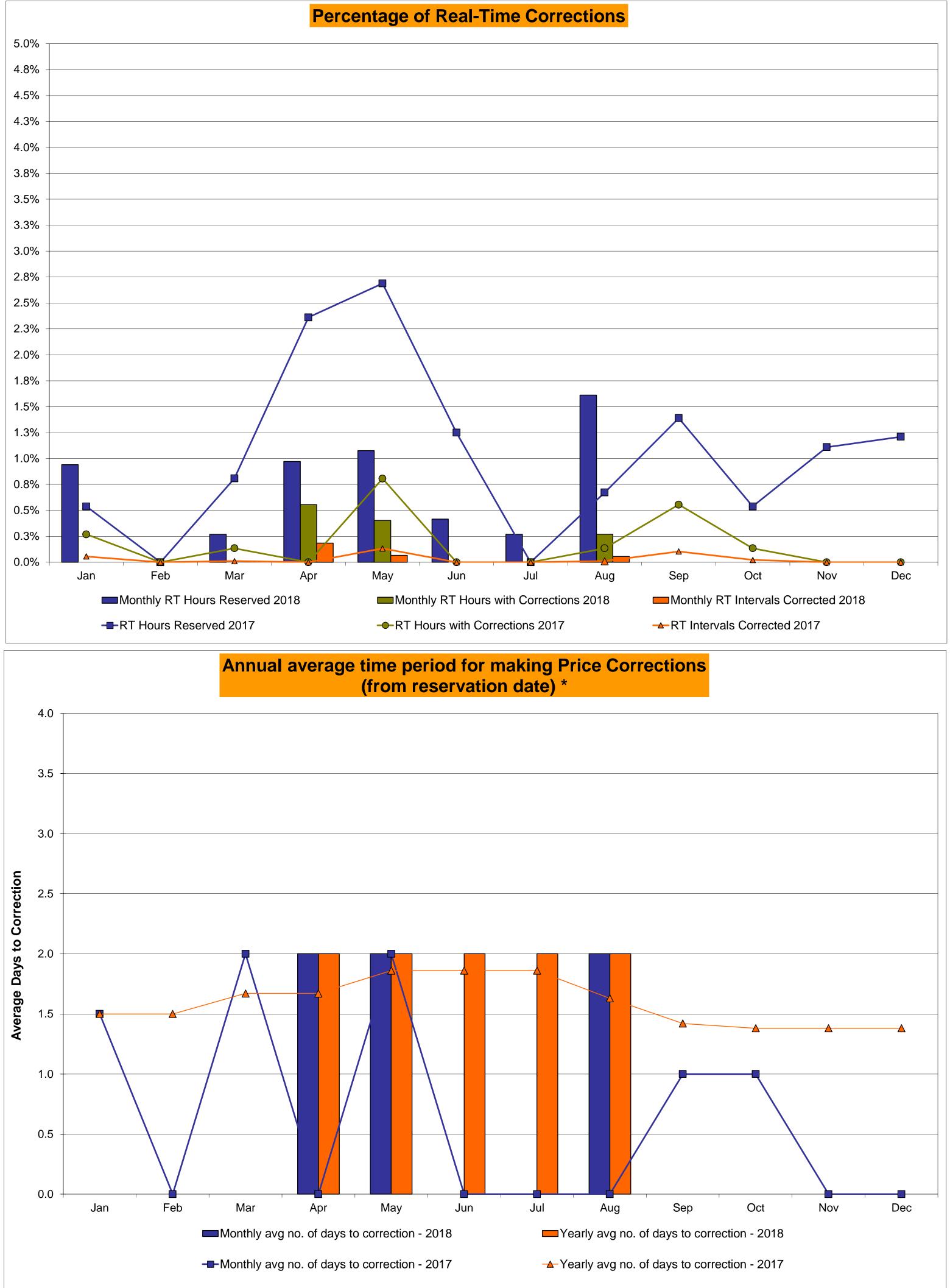


NYISO Real Time Price Correction Statistics

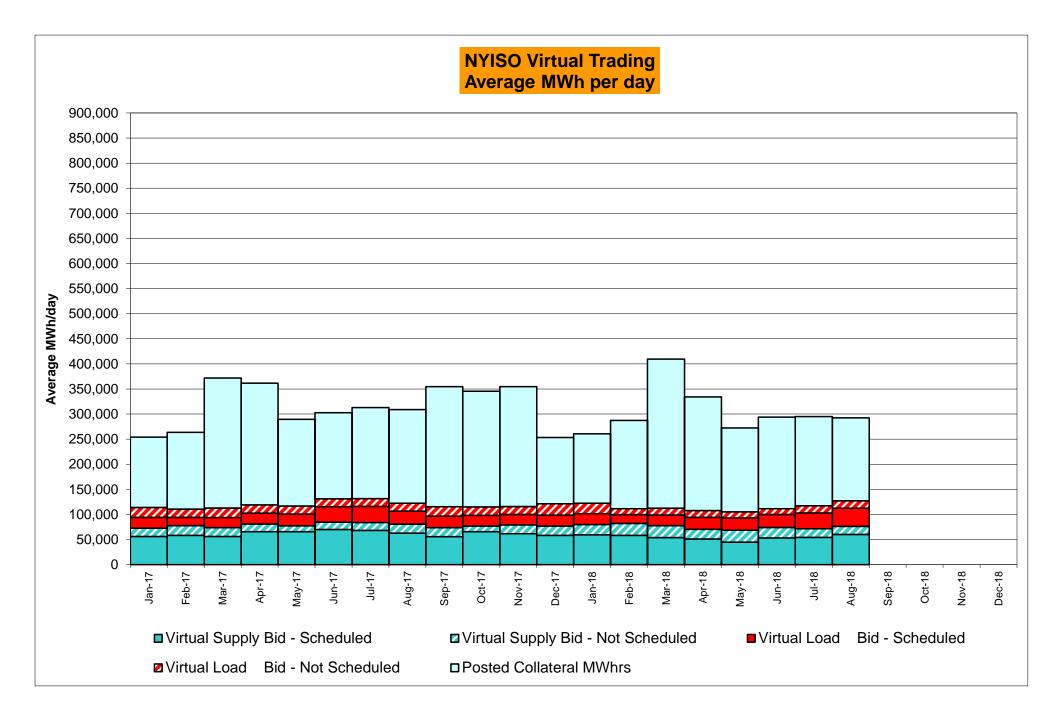
<u>2018</u>		<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Hour Corrections	to dia second	0	0	0		0	0	0	0				
Number of hours with corrections	in the month	0	0	0	4	3	0	0	2				
Number of hours	in the month	744	672	743	720	744	720	744	744				
% of hours with corrections	in the month	0.00%	0.00%	0.00%	0.56%	0.40%	0.00%	0.00%	0.27%				
% of hours with corrections	year-to-date	0.00%	0.00%	0.00%	0.14%	0.19%	0.16%	0.14%	0.15%				
Interval Corrections													
Number of intervals corrected	in the month	0	0	0	16	6	0	0	5				
Number of intervals	in the month	9,021	8,112	9,002	8,717	9,033	8,723	9,021	9,071				
% of intervals corrected	in the month	0.00%	0.00%	0.00%	0.18%	0.07%	0.00%	0.00%	0.06%				
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%	0.05%	0.05%	0.04%	0.04%	0.04%				
Hours Reserved													
Number of hours reserved	in the month	7	0	2	7	8	3	2	12				
Number of hours	in the month	744	672	743	720	744	720	744	744				
% of hours reserved	in the month	0.94%	0.00%	0.27%	0.97%	1.08%	0.42%	0.27%	1.61%				
% of hours reserved	year-to-date	0.94%	0.49%	0.42%	0.56%	0.66%	0.62%	0.57%	0.70%				
Days to Correction *	year to date	0.0470	0.4070	0.4270	0.0070	0.0070	0.0270	0.0170	0.7070				
Avg. number of days to correction	in the month	0.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00				
Avg. number of days to correction	year-to-date	0.00	0.00	0.00	2.00	2.00	2.00	2.00	2.00				
Days Without Corrections	your to date	0.00	0.00	0.00	2.00	2.00	2.00	2.00	2.00				
Days without corrections	in the month	31	28	31	28	28	30	31	30				
Days without corrections	year-to-date	31	59	90	118	146	176	207	237				
,	<i>y</i> = == = = = = = =	•											
<u>2017</u>		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	December
2017 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
	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>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 % 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	in the month	2 744	0 672	1 743	0 720	6 744	0 720	0 744	1 744	4 720	1 744	0 721	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% 0.14%	1 743 0.13%	0 720 0.00%	6 744 0.81% 0.25%	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%	1 743 0.13%	0 720 0.00% <u>0.10%</u> 0	6 744 0.81%	0 720 0.00% <u>0.21%</u> 0	0 744 0.00% <u>0.18%</u> 0	1 744 0.13%	4 720 0.56% 0.21%	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 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% 0.10%	6 744 0.81% <u>0.25%</u> 12	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13% <u>0.17%</u> 1	4 720 0.56% <u>0.21%</u> 9	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 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 0.06%	0 672 0.00% <u>0.14%</u> 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% <u>0.19%</u> 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	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	0 720 0.00% 0.10% 0 8,745	6 744 0.81% <u>0.25%</u> 12 9,004	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	1 744 0.13% <u>0.21%</u> 2 9,006	0 721 0.00% 0.19% 0 8,712	0 744 0.00% <u>0.17%</u> 0 9,063
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% <u>0.27%</u> 5 8,983 0.06% <u>0.06%</u>	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% 0.25% 12 9,004 0.13% 0.04%	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% 0.04%	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% 0	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% 0.25% 12 9,004 0.13% 0.04% 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%	1 744 0.13% <u>0.17%</u> 1 8,980 0.01% <u>0.03%</u> 5	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 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 correctionsMumber of intervals correctedNumber of intervals% of intervals corrected% 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 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	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	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% <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	1 744 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% 0.03% 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 in the month year-to-date in the month in the month in the month in the month	2 744 0.27% 0.27% 5 8,983 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% <u>0.14%</u> 1 9,026 0.01% <u>0.02%</u> 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% <u>0.17%</u> 1 8,980 0.01% <u>0.03%</u> 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% 0.21% 2 9,006 0.02% 0.03% 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 1.21%
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 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	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	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% <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	1 744 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% 0.03% 9 744
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Mumber of intervals % of intervals corrected Number of intervals % of intervals corrected % of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54% 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% <u>0.17%</u> 0 9,063 0.00% <u>0.03%</u> 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 hours reservedNumber of hours reserved% of hours reserved	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	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% 0.03% 0.03% 0.00% 0.28%	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% 0.03% 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
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reserved% of	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54% 0.54%	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0 672 0.00% 0.28%	1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00% 1.10%	1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05%	4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08%	1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03%	0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04%	0 744 0.00% <u>0.17%</u> 0 9,063 0.00% <u>0.03%</u> 9 744 1.21% 1.05%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsMumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reserved% of hours reservedDays to Correction *Avg. number of days to correctionAvg. number of days to correctionDays Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date in the month year-to-date	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 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% 0.03% 1.10% 0.00% 1.10%	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% 1.08% 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 1.38	0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00 1.38
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reserved% of	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month 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	0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0.03% 0.03% 0.00% 0.28%	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% 0.03% 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

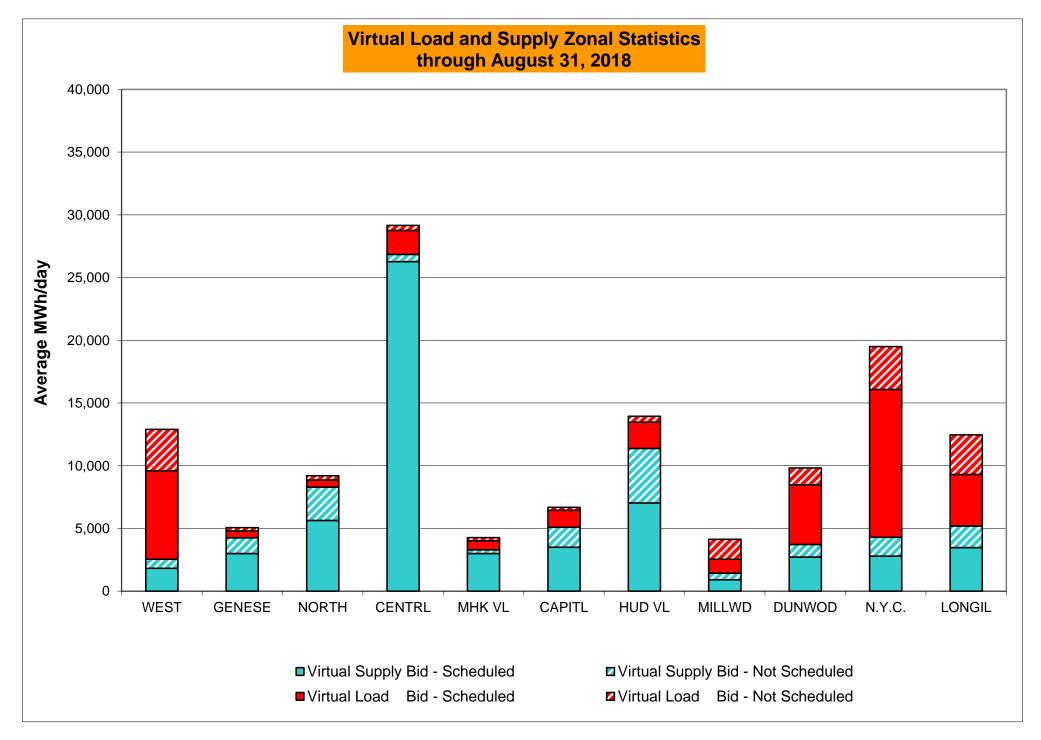
*Calendar days from reservation date; for June 2018 forward, business days from market date

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



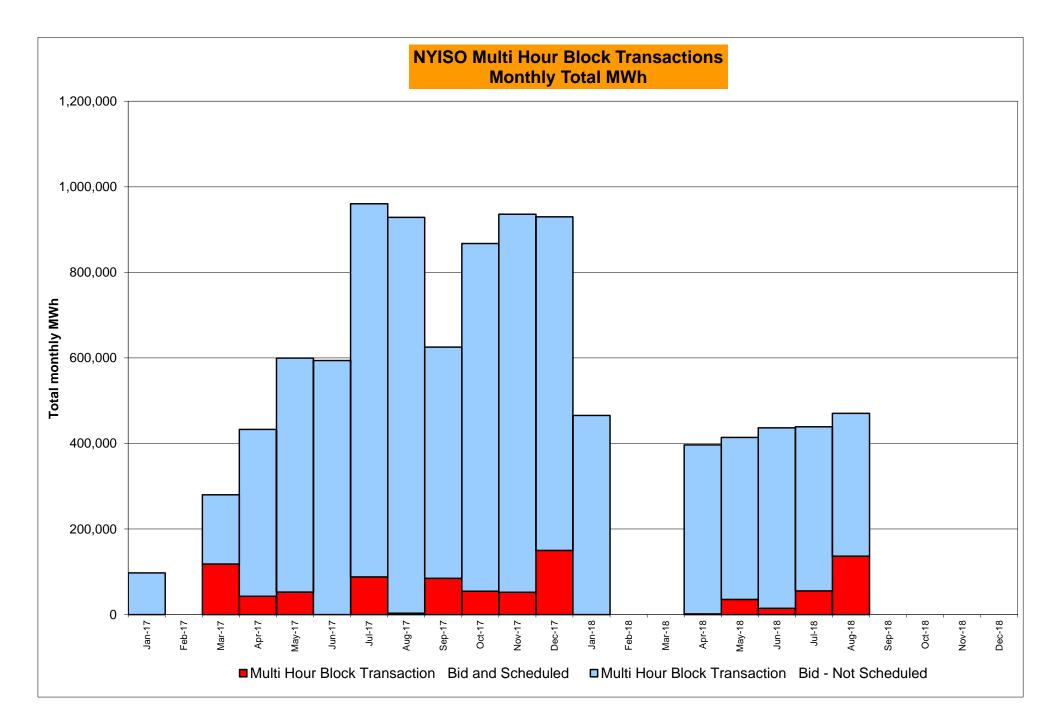
*Calendar days from reservation date; for June 2018 forward, business days from market date

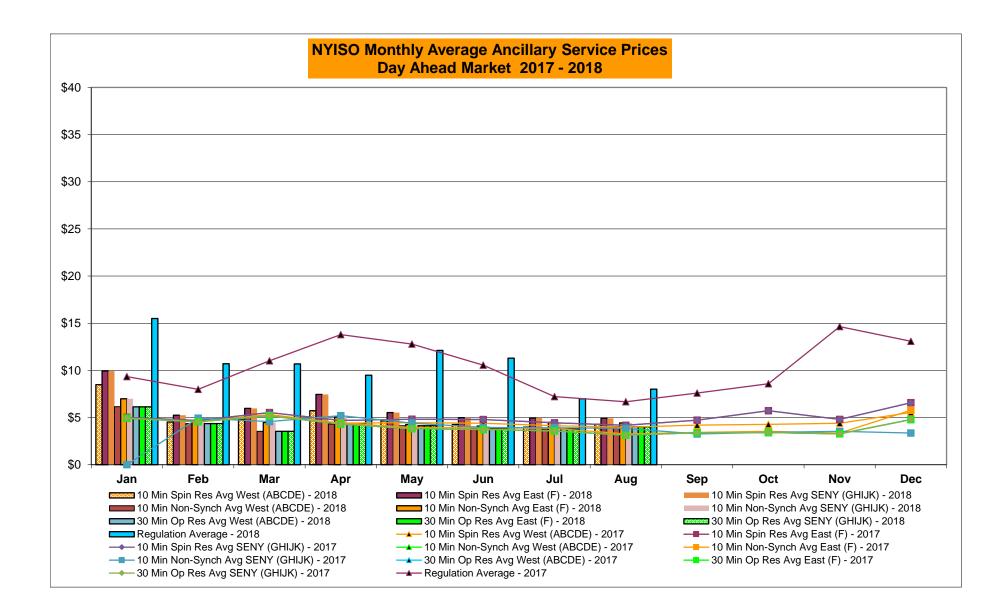


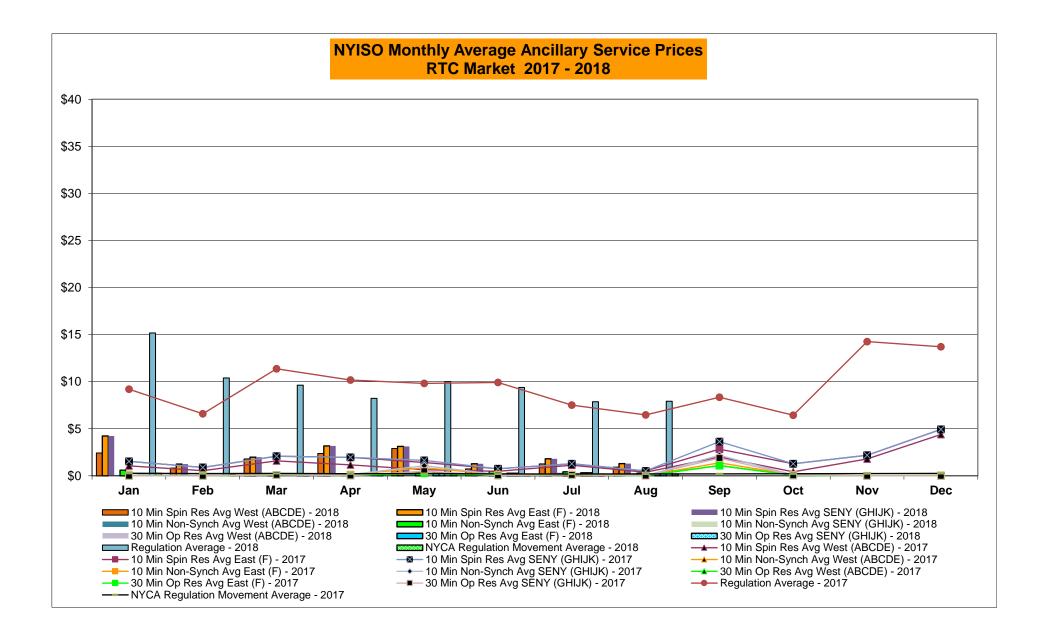


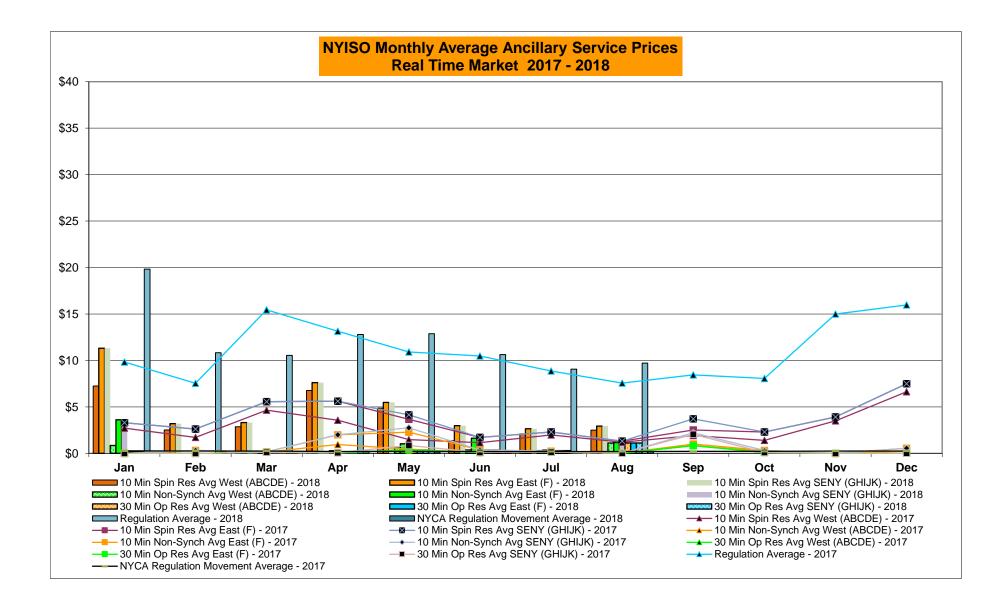
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018

		Virtual L	oad Bid	Virtual S	upply Bid			Virtual L	oad Bid	Virtual Su	upply Bid			Virtual L	oad Bid	Virtual Su	upply Bid
			Not		Not				Not		Not				Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
VEST	Jan-18	4,761	4,241	1,938	427	MHK VL	Jan-18			2,040					1,509	2,215	
	Feb-18	3,058	1,941	1,478	603	_	Feb-18			1,910			Feb-18		658	5,891	824
	Mar-18	7,263	2,535	860	659		Mar-18			1,896			Mar-18	,	755	3,530	
	Apr-18	8,154	3,433	926		_	Apr-18			1,986			Apr-18		1,047	2,395	
	May-18	7,658	4,266	516		_	May-18			3,242			May-18		183	2,052	44(
	Jun-18 Jul-18	7,003 6,144	4,102 4,151	760 894	681 795	_	Jun-18 Jul-18			3,697 3,340			Jun-18 Jul-18		258 685	2,023 2,764	
	Aug-18	7,058	3,301	1,826	795	_	Aug-18			3,007			Aug-18		1,343	2,704	
	Sep-18	7,000	3,301	1,020	120	_	Sep-18		200	3,007	293		Sep-18		1,545	2,720	337
	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		1,751	1,887			Jan-18		5,885	1,359	
	Feb-18	525	172	1,723	2,671	_	Feb-18			1,331			Feb-18	,	4,187	1,181	1,086
	Mar-18	537	143	1,381	2,488	_	Mar-18	-	156	1,330			Mar-18	,	4,931	1,727	1,285
	Apr-18	587 405	234	1,818	1,047		Apr-18			2,032			Apr-18		2,460	2,212	
	May-18 Jun-18	389	123 100	2,353 2,222	649 563	_	May-18 Jun-18		95 112	1,430 1,818			May-18 Jun-18		3,912 2,924	1,152 2,210	
	Jul-18	476	123	2,222	1,062	_	Jul-18			2,818			Jul-18		3,514	3,011	1,888
	Aug-18	535	269	2,913	1,002		Aug-18		242	3,509			Aug-18		3,421	2,802	
	Sep-18		200	2,001	1,201		Sep-18	,	212	0,000	1,070		Sep-18		0,121	2,002	1,101
	Oct-18					_	Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
	1	074		0.050	0.005		1	4 500	4 005	5 000	7.040		1	0.005	0.744	4 000	4.000
NORTH	Jan-18 Feb-18	274 352	282 369	8,259	3,265 2,777	HUD VL	Jan-18			5,029		LONGIL	Jan-18 Feb-18		3,714	1,932	
	Mar-18	249	369	7,449 6,995	2,136	_	Feb-18 Mar-18			4,703 5,169			Mar-18		2,591 3,021	3,061 3,308	2,605 1,768
	Apr-18	189	269	7,479			Apr-18		,	5,990	,		Apr-18	,	3,620	2,505	
	May-18	215	79		4,717		May-18			3,727			May-18		2,420	1,436	
	Jun-18	514	317	5,178	3,657	-	Jun-18			4,144			Jun-18		2,235	1,618	
	Jul-18	428	423	5,684	2,542	_	Jul-18			3,087			Jul-18		3,179	1,278	
	Aug-18	578	340	5,639			Aug-18			7,039			Aug-18		3,156	3,475	
	Sep-18						Sep-18						Sep-18				
	Oct-18					_	Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
ENTRL	Jan-18	983	434	28,975	647	MILLWD	Jan-18	923	988	2,033	757	NYISO	Jan-18	21,542	20,854	59,437	20,478
	Feb-18	595	215	28,161	483		Feb-18			1,284			Feb-18		11,608	58,172	
	Mar-18	1,977	208	26,643	614		Mar-18			1,144	-		Mar-18	,	13,494	53,984	23,855
	Apr-18	1,753	334				Apr-18			1,031			Apr-18	,	13,330	50,864	
	May-18	1,033	221	21,769	470		May-18			1,050			May-18		12,074	44,726	23,814
	Jun-18		164	28,504	501		Jun-18			1,223			Jun-18		11,189	53,397	20,825
	Jul-18	1,093	273		534		Jul-18			940			Jul-18		14,319	54,416	
	Aug-18	1,911	408	26,279	566		Aug-18		1,580	916	520		Aug-18		14,790	60,205	16,141
	Sep-18					_	Sep-18						Sep-18				
	Oct-18					_	Oct-18						Oct-18				
	Nov-18 Dec-18					_	Nov-18 Dec-18						Nov-18 Dec-18				







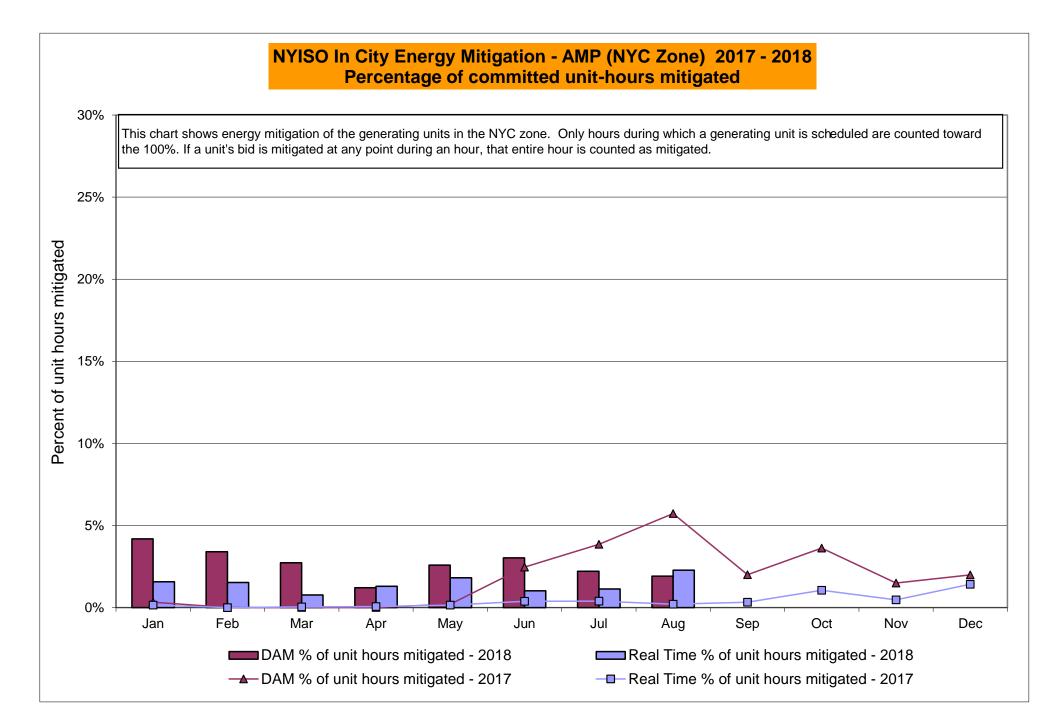


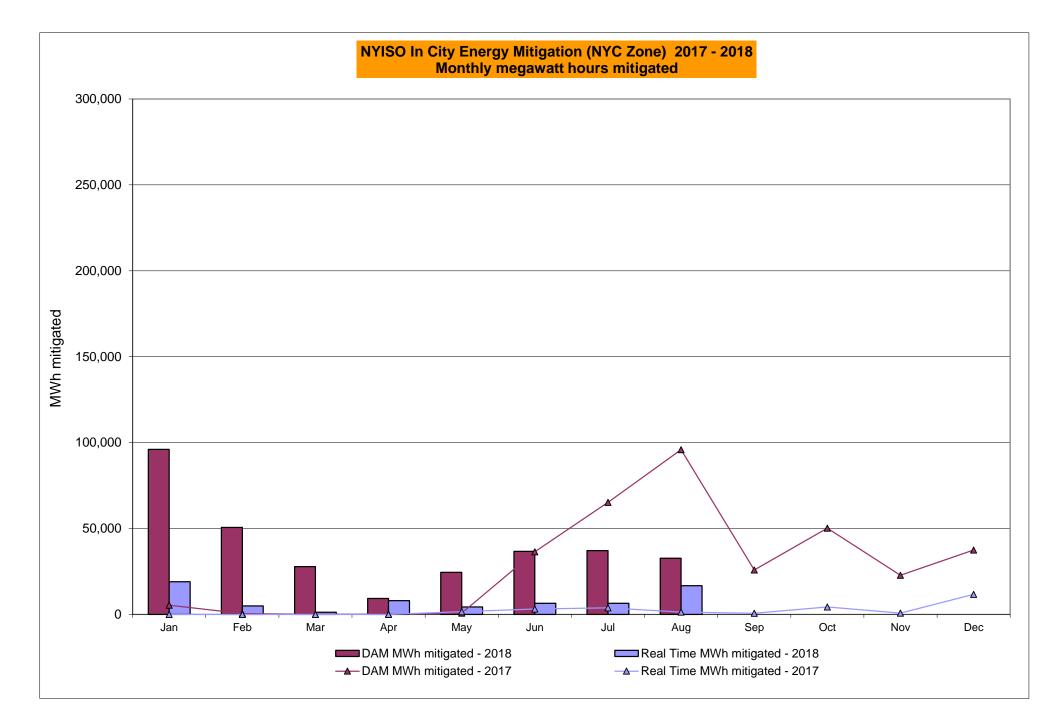
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

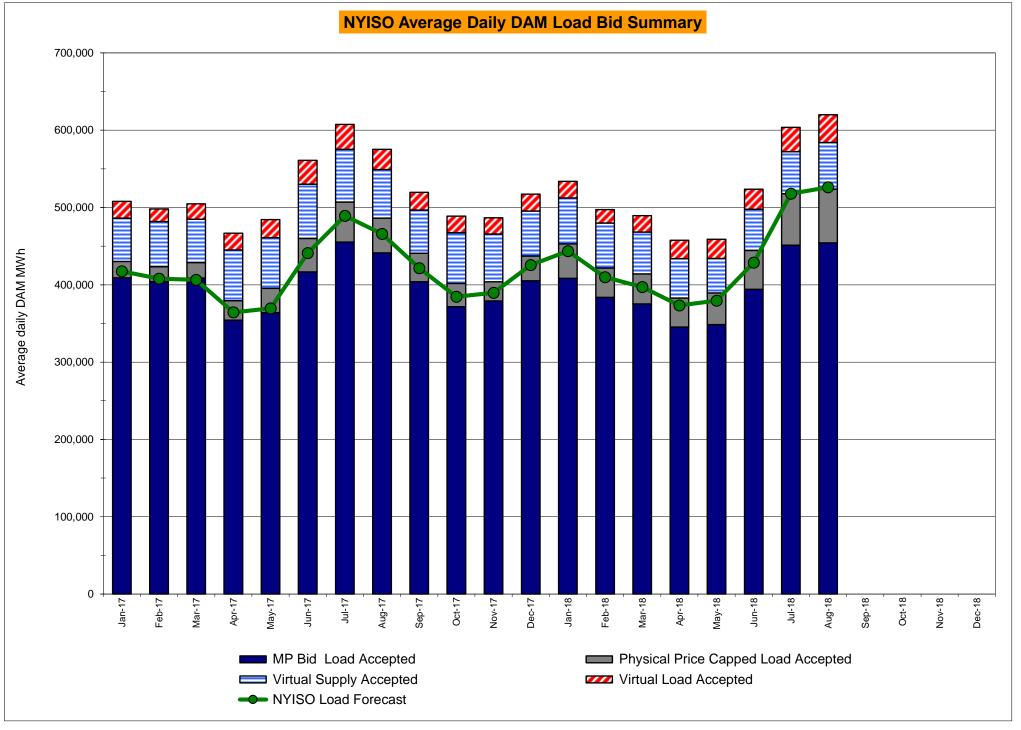
			nomai y		Statistics		giitoa
2018	January	February	March	<u>April</u>	May	June	<u>July</u>
Day Ahead Market	<u>e carrotary</u>	<u> </u>		<u></u>	<u></u>	<u></u>	<u>•••.</u>
10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52	4.98	4.95
10 Min Spin East (F)	9.93	5.24	5.97	7.45	5.52	4.98	4.95
10 Min Spin West (ABCDE)	8.49	4.53	4.78	5.73	4.65	4.26	3.98
10 Min Non Synch SENY (GHIJK)	6.99	4.54	4.48	5.05	4.26	4.09	4.49
10 Min Non Synch East (F)	6.99	4.54	4.48	5.05	4.26	4.09	4.49
10 Min Non Synch West (ABCDE)	6.15	4.36	3.54	4.31	4.13	3.85	3.80
30 Min SENY (GHIJK)	6.14	4.36	3.54	4.31	4.13	3.85	3.79
30 Min East (F)	6.14	4.36	3.54	4.31	4.13	3.85	3.79
30 Min West (ABCDE)	6.14	4.36	3.54	4.31	4.13	3.85	3.79
Regulation	15.51	10.70	10.68	9.49	12.11	11.30	6.99
•	15.51	10.70	10.00	5.45	12.11	11.50	0.99
RTC Market							
10 Min Spin SENY (GHIJK)	4.23	1.24	1.98	3.17	3.13	1.28	1.81
10 Min Spin East (F)	4.23	1.24	1.98	3.17	3.13	1.28	1.81
10 Min Spin West (ABCDE)	2.43	0.82	1.79	2.38	2.91	0.74	1.27
10 Min Non Synch SENY (GHIJK)	0.59	0.03	0.01	0.22	0.42	0.49	0.42
10 Min Non Synch East (F)	0.59	0.03	0.01	0.22	0.42	0.49	0.42
10 Min Non Synch West (ABCDE)	0.08	0.02	0.00	0.00	0.33	0.27	0.33
30 Min SENY (GHIJK)	0.08	0.02	0.00	0.00	0.32	0.27	0.33
30 Min East (F)	0.08	0.02	0.00	0.00	0.32	0.27	0.33
30 Min West (ABCDE)	0.08	0.02	0.00	0.00	0.32	0.27	0.33
Regulation	15.17	10.40	9.63	8.22	10.01	9.39	7.87
NYCA Regulation Movement	0.26	0.21	0.20	0.22	0.19	9.39 0.16	0.19
NTCA Regulation Movement	0.20	0.21	0.20	0.22	0.19	0.16	0.19
Real Time Market							
10 Min Spin SENY (GHIJK)	11.31	3.19	3.31	7.62	5.48	2.98	2.65
10 Min Spin East (F)	11.31	3.19	3.31	7.62	5.48	2.98	2.65
10 Min Spin West (ABCDE)	7.24	2.52	2.86	6.77	4.86	1.37	2.10
10 Min Non Synch SENY (GHIJK)	3.61	0.01	0.19	0.28	1.03	1.63	0.35
10 Min Non Synch East (F)	3.61	0.01	0.19	0.28	1.03	1.63	0.35
10 Min Non Synch West (ABCDE)	0.85	0.00	0.00	0.00	0.57	0.37	0.29
30 Min SENY (GHIJK)	0.13	0.00	0.00	0.00	0.37	0.37	0.29
30 Min East (F)	0.13	0.00	0.00	0.00	0.37	0.37	0.29
30 Min West (ABCDE)	0.13	0.00	0.00	0.00	0.37	0.37	0.29
Regulation	19.82	10.82	10.54	12.80	12.88	10.62	9.06
0							
NYCA Regulation Movement	0.24	0.21	0.20	0.21	0.17	0.15	0.18
<u>2017</u>	lanuary	<u>February</u>	March	April	May	<u>June</u>	hub.
	<u>January</u>	rebiuary	March	<u>April</u>	iviay	June	<u>July</u>
Day Ahead Market	E 01	E 20	E 04	6.04	4.02	4.60	6.44
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
10 Min Non Synch SENY (GHIJK)	4.94	5.25	4.88	5.80	4.83	4.36	6.34
10 Min Non Synch East (F)	4.94	5.25	4.88	5.80	4.83	4.36	6.34
10 Min Non Synch West (ABCDE)	4.92	5.20	4.84	5.58	4.68		5.72
30 Min SENY (GHIJK)						4.32	
	4.92	5.20	4.84	5.58	4.67	4.32	5.70
30 Min East (F)	4.92	5.20	4.84	5.58	4.67	4.32 4.32	5.70 5.70
						4.32	5.70
30 Min East (F)	4.92	5.20	4.84	5.58	4.67	4.32 4.32	5.70 5.70
30 Min East (F) 30 Min West (ABCDE) Regulation	4.92 4.92	5.20 5.20	4.84 4.84	5.58 5.58	4.67 4.67	4.32 4.32 4.32	5.70 5.70 5.70
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u>	4.92 4.92 9.34	5.20 5.20 8.19	4.84 4.84 8.05	5.58 5.58 7.93	4.67 4.67 6.11	4.32 4.32 4.32 7.00	5.70 5.70 5.70 8.19
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK)	4.92 4.92 9.34 1.53	5.20 5.20 8.19 0.59	4.84 4.84 8.05 0.71	5.58 5.58 7.93 1.81	4.67 4.67 6.11 0.43	4.32 4.32 4.32 7.00 0.49	5.70 5.70 5.70 8.19 2.79
30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	4.92 4.92 9.34 1.53 1.53	5.20 5.20 8.19 0.59 0.59	4.84 4.84 8.05 0.71 0.71	5.58 5.58 7.93 1.81 1.81	4.67 4.67 6.11 0.43 0.43	4.32 4.32 4.32 7.00 0.49 0.46	5.70 5.70 5.70 8.19 2.79 2.77
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)	4.92 4.92 9.34 1.53 1.53 1.06	5.20 5.20 8.19 0.59 0.59 0.26	4.84 4.84 8.05 0.71 0.71 0.08	5.58 5.58 7.93 1.81 1.81 0.95	4.67 4.67 6.11 0.43 0.43 0.23	4.32 4.32 4.32 7.00 0.49 0.46 0.24	5.70 5.70 5.70 8.19 2.79 2.77 1.72
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)	4.92 4.92 9.34 1.53 1.53 1.06 0.06	5.20 5.20 8.19 0.59 0.26 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17	5.58 5.58 7.93 1.81 1.81 0.95 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89
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)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06	5.20 5.20 8.19 0.59 0.26 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87
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)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04	4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18
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)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04	5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94
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)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93
30 Min 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 West (ABCDE)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02 0.02 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93
30 Min 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	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	5.20 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 0.686	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 7.07	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	4.32 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	5.70 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
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 West (ABCDE)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02 0.02 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93
30 Min 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	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	5.20 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 0.686	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 7.07	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	4.32 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	5.70 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
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 West (ABCDE) Regulation NYCA Regulation Movement	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	5.20 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 0.686	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 7.07	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	4.32 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	5.70 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
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)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20	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 7.07 0.25 4.34	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.70 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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	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	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73	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 7.07 0.25 4.34 4.34	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 0.04	4.32 4.32 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	5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.73
30 Min 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 West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	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	$5.20 \\ 5.20 \\ 8.19 \\ 0.59 \\ 0.26 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.21 \\ 1.12 \\ 1.12 \\ 1.12 \\ 0.58 \\ $	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \end{array}\\ \begin{array}{c} 1.73\\ 1.73\\ 0.48\\ \end{array}$	5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 0.04	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	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE)	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	5.20 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 0.26 0.00 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	$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 \\ 7.07 \\ 0.25 \\ 4.34 \\ 4.34 \\ 2.23 \\ 1.20 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\\\\\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\\end{array}$	4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 9.21 0.27 3.29 3.29 3.29 2.71 0.00 0.00	5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	$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 \\ 2.25 \\ 4.34 \\ 4.34 \\ 2.23 \\ 1.20 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\\\\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\\\ 0.06\end{array}$	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	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.73 4.72 2.51 3.49 3.48
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	$\begin{array}{c} 4.92 \\ 4.92 \\ 9.34 \\ \end{array}$ $\begin{array}{c} 1.53 \\ 1.53 \\ 1.06 \\ 0.06 \\ 0.06 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 9.21 \\ 0.27 \\ \end{array}$ $\begin{array}{c} 3.29 \\ 3.29 \\ 3.29 \\ 2.71 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 6.86 0.21 1.12 1.12 1.12 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \end{array}\\ \begin{array}{c} 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.00\\ \end{array}$	$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 \\ 2.23 \\ 1.20 \\ 1.20 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 0.26 \\ 1.20 \\ 1.20 \\ 0.26 \\ 1.20 \\ 1.20 \\ 0.26 \\ 1.20 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\\\ 0.05\\\\ 0.05\\\\ 0.05\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 5.43\\\\ 0.25\\\\\\ 1.19\\\\ 1.19\\\\ 1.19\\\\ 0.79\\\\ 0.06\\\\ 0.06\\\\ 0.03\\\\\\ 0.03\end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	$\begin{array}{c} 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \end{array}\\ \begin{array}{c} 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ \end{array}$	$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 \\ 2.23 \\ 1.20 \\ 1.20 \\ 1.20 \\ 0.26 \\ 0.25 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\\\ 0.05\\\\ 0.05\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.04\\\\ 0.05\\\\ 0.06\\\\ 0.06\\\\ 0.03\\\\ 0.03\\\\ 0.03\end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	$\begin{array}{c} 4.92 \\ 4.92 \\ 9.34 \\ \end{array}$ $\begin{array}{c} 1.53 \\ 1.53 \\ 1.06 \\ 0.06 \\ 0.06 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 9.21 \\ 0.27 \\ \end{array}$ $\begin{array}{c} 3.29 \\ 3.29 \\ 3.29 \\ 2.71 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}\\ 0.71\\ 0.71\\ 0.08\\ 0.17\\ 0.17\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 7.15\\ 0.20\\ \end{array}\\ \begin{array}{c} 1.73\\ 1.73\\ 0.48\\ 0.22\\ 0.22\\ 0.22\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$5.58 \\ 5.58 \\ 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 \\ 2.23 \\ 1.20 \\ 1.20 \\ 1.20 \\ 0.26 \\ 0.25 \\ $	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\\\\\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.06\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\\\ 0.03$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min SENY (G	$\begin{array}{c} 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 1.12 1.12 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	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 0.25 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\\\\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\\\ 0.03\\ 0.03\\\\ 0.03\\ 0.03\\\\ $	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97
30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30	$\begin{array}{c} 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	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 0.25 4.34 4.34 4.34 2.23 1.20 1.20 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\ \\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \\ 1.19\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.06\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 6.06\\ \end{array}$	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.97 0.97 8.37
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 SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min SENY (GHIJK) 30 Min SENY	$\begin{array}{c} 4.92\\ 4.92\\ 9.34\\ \end{array}$	5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21 1.12 1.12 1.12 1.12 1.12 0.58 0.00	$\begin{array}{c} 4.84\\ 4.84\\ 8.05\\ \end{array}$	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 0.25 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 0.25	$\begin{array}{c} 4.67\\ 4.67\\ 6.11\\\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\\\\\ 1.19\\ 1.19\\ 0.79\\ 0.06\\ 0.06\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\ 0.03\\\\ 0.03\\ 0.03\\\\ 0.03\\ 0.03\\\\ $	$\begin{array}{c} 4.32\\ 4.32\\ 4.32\\ 7.00\\ \end{array}$	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

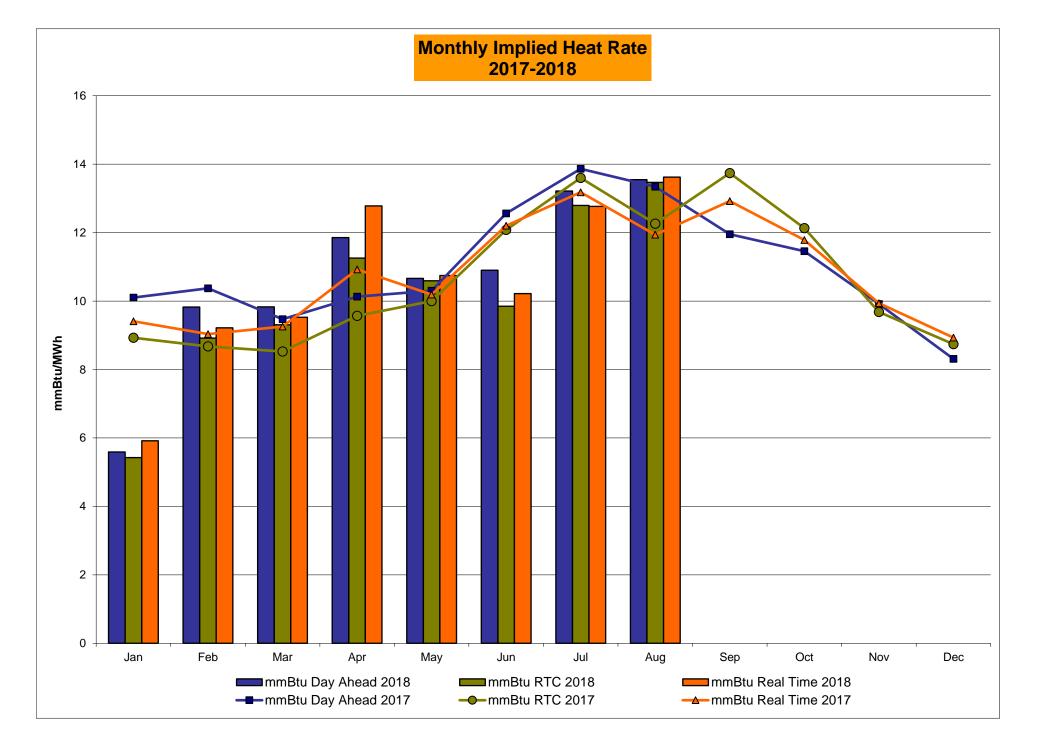
<u>August</u>	<u>September</u>	<u>October</u>	November	December
4.91				
4.91				
4.30				
4.43				
4.43				
4.03				
4.02				
4.02				
4.02				
8.00				
1.29				
1.29				
0.93				
0.27				
0.27				
0.25				
0.25				
0.25				
0.25				
7.92				
0.19				
2.93				
2.93				
2.50				
1.16				
1.16				
1.12				
1.12 1.12				
1.12				
9.71				
9.71 0.18				
0.10				

<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

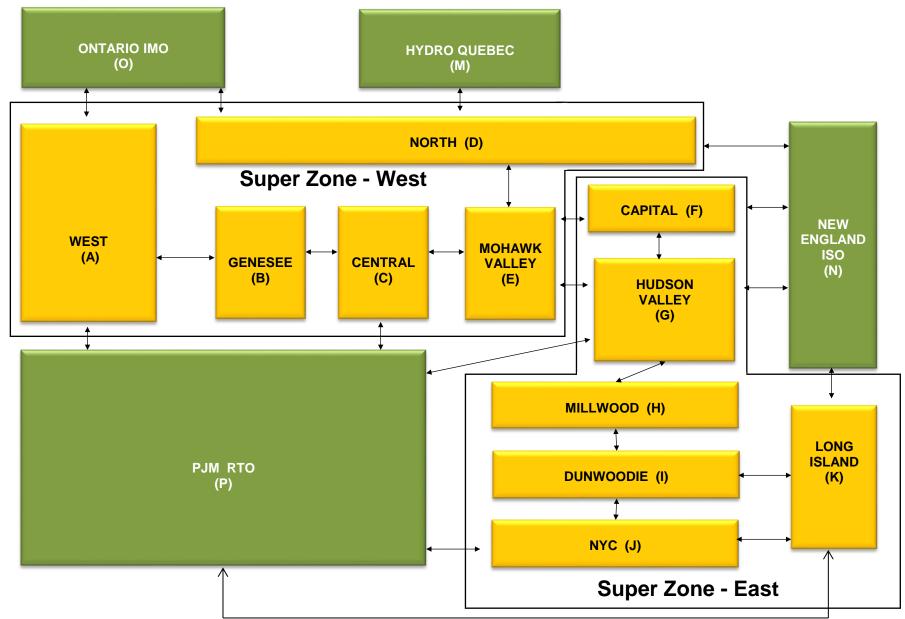






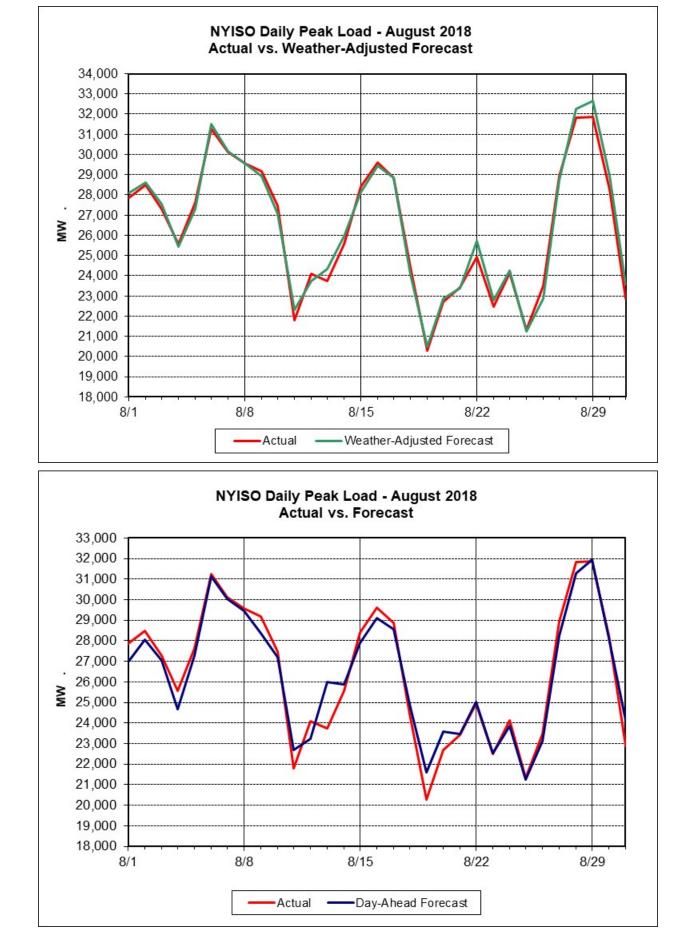


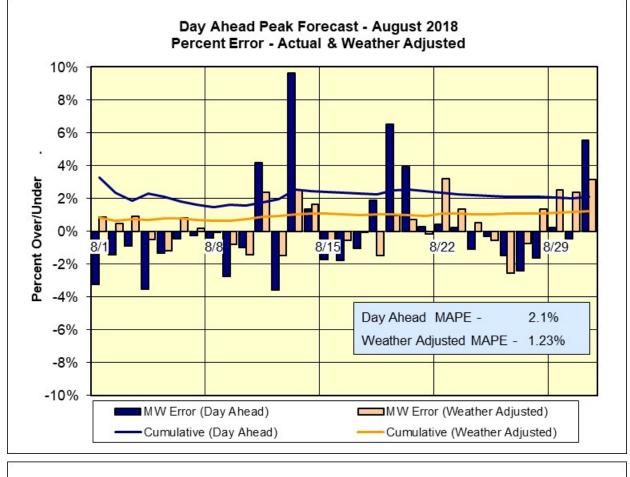
NYISO LBMP ZONES



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 o Rulemakings and Related (•	
Filing Date	Filing Summary	Docket	Order Date	Order Summary
06/18/2018 07/17/2018	NYISO errata re: refiling of OATT Section 20.2 to correct the record in its 09/13/2016 Order 1000 compliance filing	ER13-102-015	08/21/2018	Order accepted refiling of tariff section to correct the record
06/29/2018	NYISO filing on behalf of Niagara Mohawk Power Corporation re: notice of cancellation of Service Agreement No. 125 between Niagara Mohawk Corporation and Tug Hill Energy, Inc.	ER18-1888-000	08/02/2018	Order accepted notice of cancellation effective 08/24/2017, as requested
07/11/2018	NYISO and Niagara Mohawk Power Corporation ("National Grid") joint 205 filing re: amended and restated small generator interconnection agreement (SA No. 2219) among NYISO, National Grid and Monroe County	ER18-1994-000	08/20/2018	Order accepted filing effective 06/26/2018, as requested
07/16/2018	NYISO and Niagara Mohawk Power Corporation ("National Grid") joint 205 filing re: amended and restated large generator interconnection agreement (SA No. 2356) among NYISO, National Grid and Arkwright Summit Wind Farm LLC	ER18-2022-000	08/28/2018	Order accepted filing effective 06/28/2018, as requested
08/01/2018	NYISO filing on behalf of Niagara Mohawk Power Corporation re: an amendment filing to the Notice of Cancellation of a superseded interconnection agreement between Niagara Mohawk and the Village of Ilion, NY	ER18-2071-001		
08/01/2018	NYISO confidential filing to the NYPSC re: quarterly reliability project tracking report – July 2018	PSC Matter No. 10-02007		
08/07/2018	NYISO supplemental filing to the NYPSC re: its 07/13/2018 petition for authority to incur indebtedness for a term in excess of twelve months	PSC Case No. 18-E-0439		
08/09/2018	NYISO response to deficiency letter re: the 06/05/2018 filing of tariff revisions to determine Locational Minimum Installed capacity requirements	ER18-1743-001		
08/13/2018	NYISO filing re: answer to the NRG Curtailment Solutions request for waiver and complaint concerning the requirement that CSPs and RIPs use NYDPS certified Meter Service Providers to participate in the ICAP market	EL18-188-000		
08/14/2018	NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 07/31/2018	PSC Matter No. 10-02007		

08/16/2018	NYISO compliance filing re: regulated transmission cost recovery	ER17-2327-002	
08/20/2018	NYISO filing re: answer to the IPPNY complaint concerning capacity imports from the PJM market across merchant transmission facilities into Load Zone J	EL18-189-000	