

Monthly Report

December 2018



Table of Contents

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

Operations Performance Metrics Monthly Report



December 2018 Report

Operations & Reliability Department New York Independent System Operator



Table of Contents

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

• Broader Regional Market Performance Metrics

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

Market Performance Metrics

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



December 2018 Operations Performance Highlights

- Peak load of 22,080 MW occurred on 12/18/2018 HB 17
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 0 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- NYISO activated the enhanced Niagara modeling and all of the remaining 115kV facilities previously identified for securing in the energy market models for 2018 in the Real-Time Market on December 4, 2018 and in the Day-Ahead Market execution occurring on December 5, 2018 for the December 6, 2018 market day.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

	Current Month Value (\$M)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.61	\$14.07
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.30	(\$0.19)
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.03	(\$0.06)
Total NY Savings	\$0.94	\$13.82
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.18	\$4.17
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.05	
Total Regional Savings	\$0.23	\$4.96

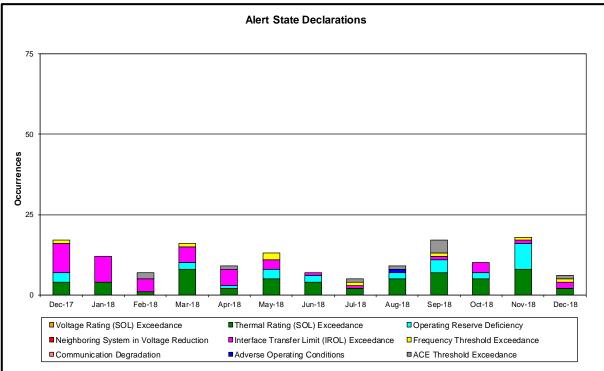
- Statewide uplift cost monthly average was (\$0.52)/MWh
- The following table identifies the Monthly ICAP spot market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
January 2019 Spot Price	\$0.13	\$1.52	\$1.52	\$0.43
December 2018 Spot Price	\$0.10	\$1.52	\$1.52	\$1.95
Delta	\$0.03	\$0.00	\$0.00	(\$1.52)

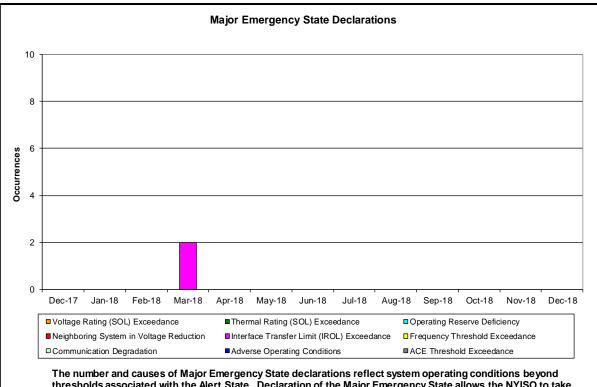
• LI - Price increase by \$1.52 due to increase in unoffered capacity



Reliability Performance Metrics

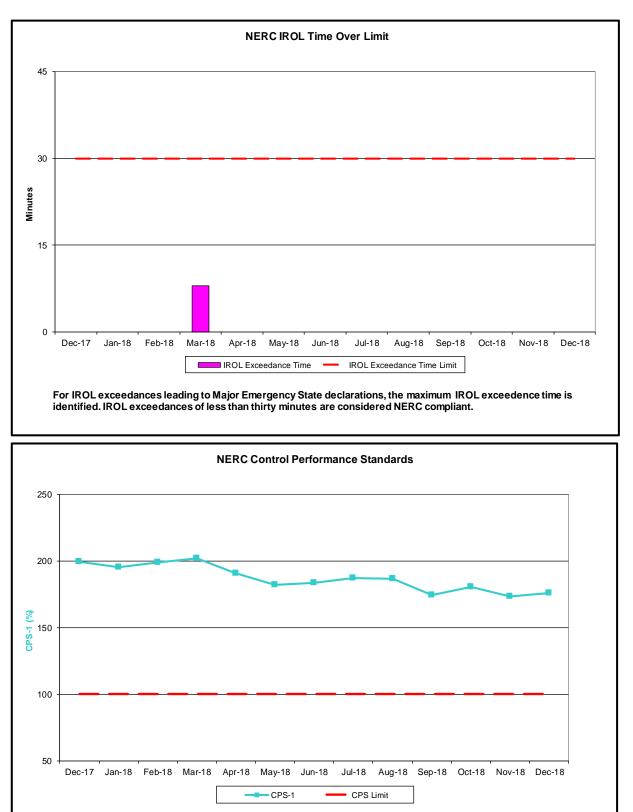


The number and causes of Alert State declarations reflect system operating conditions beyond thresholds associated with Normal and Warning States. Declaration of the Alert State allows the NYISO to take corrective actions not available in the Normal and Warning States.



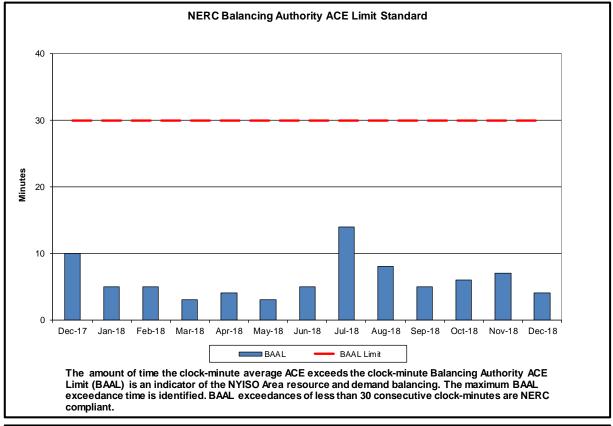
thresholds associated with the Alert State. Declaration of the Major Emergency State allows the NYISO to take additional corrective actions not available in the Alert State.

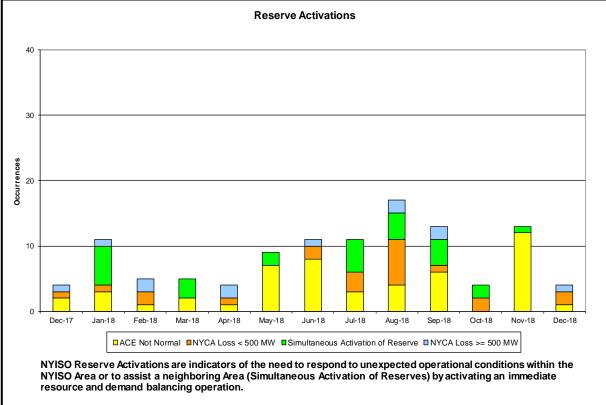




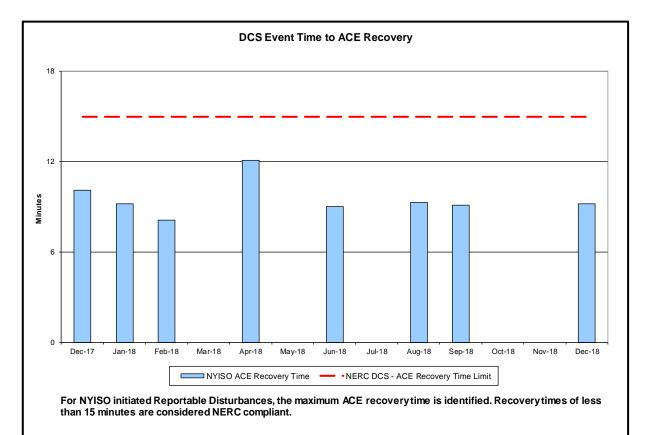
The value of NERC Control Performance Standards (CPS-1) is an indicator of the NYISO Area resource and demand balancing. Values exceeding the identified threshold are NERC compliant.

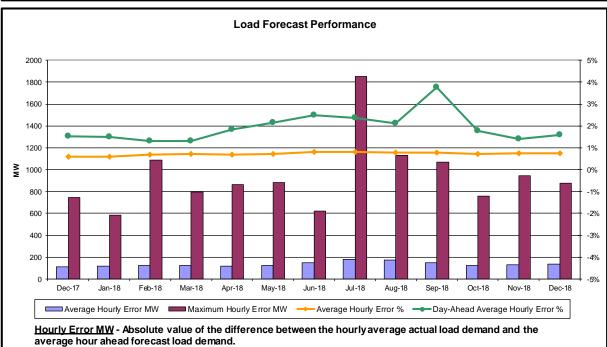








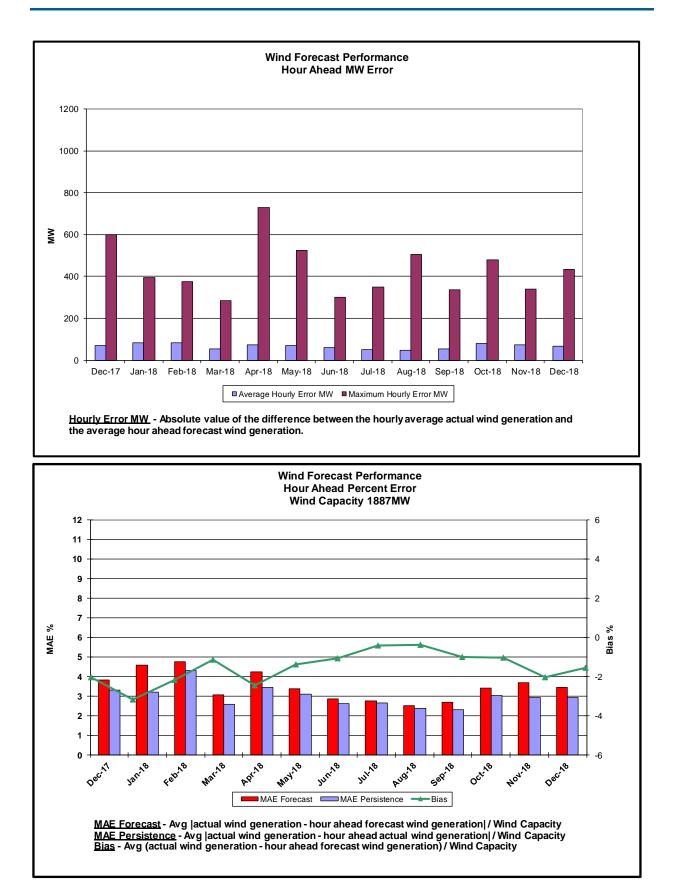




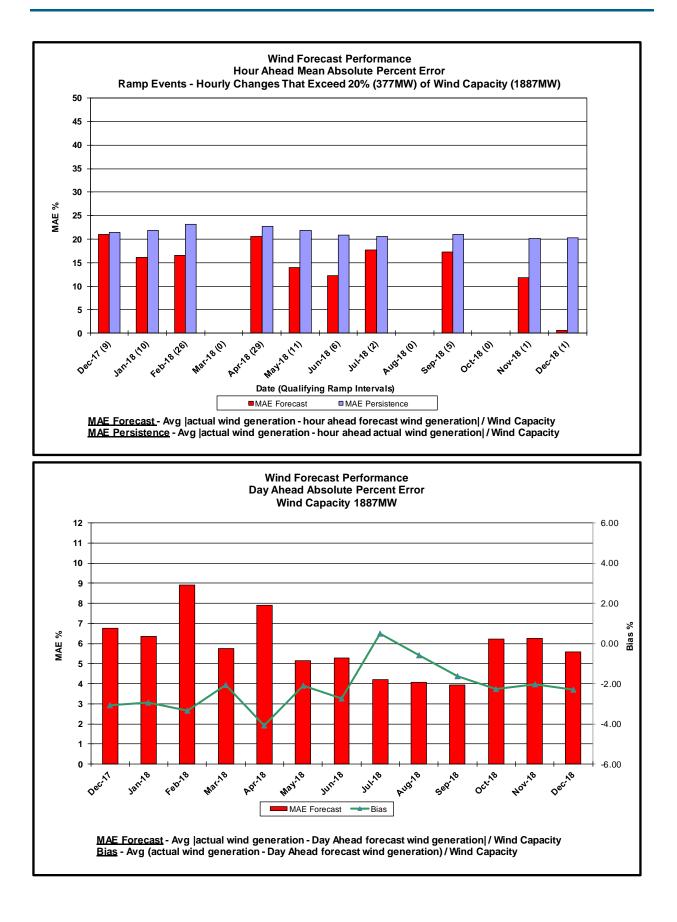
<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

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

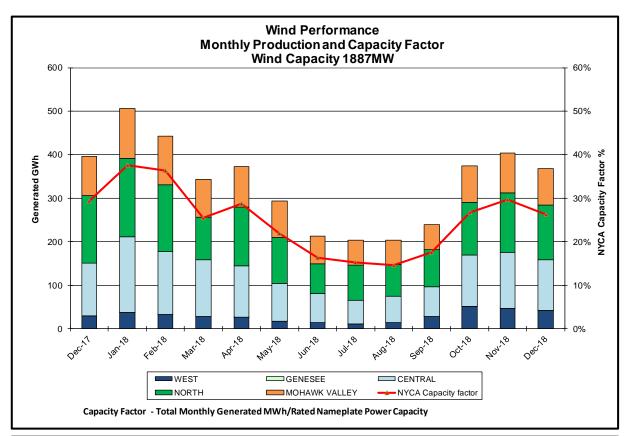


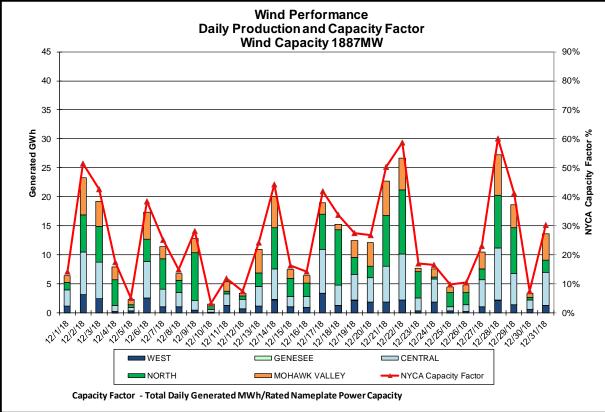




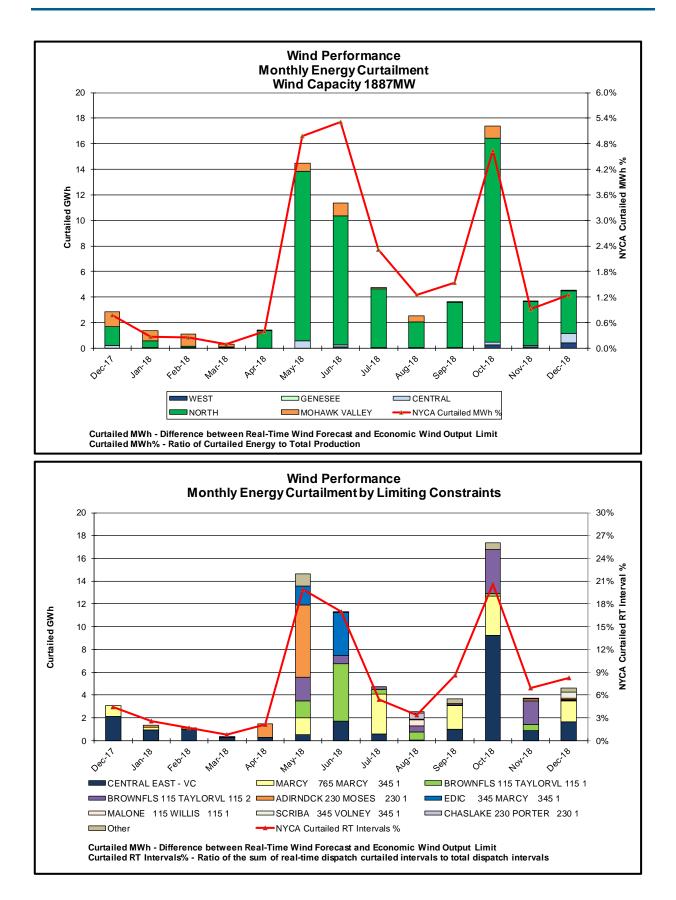




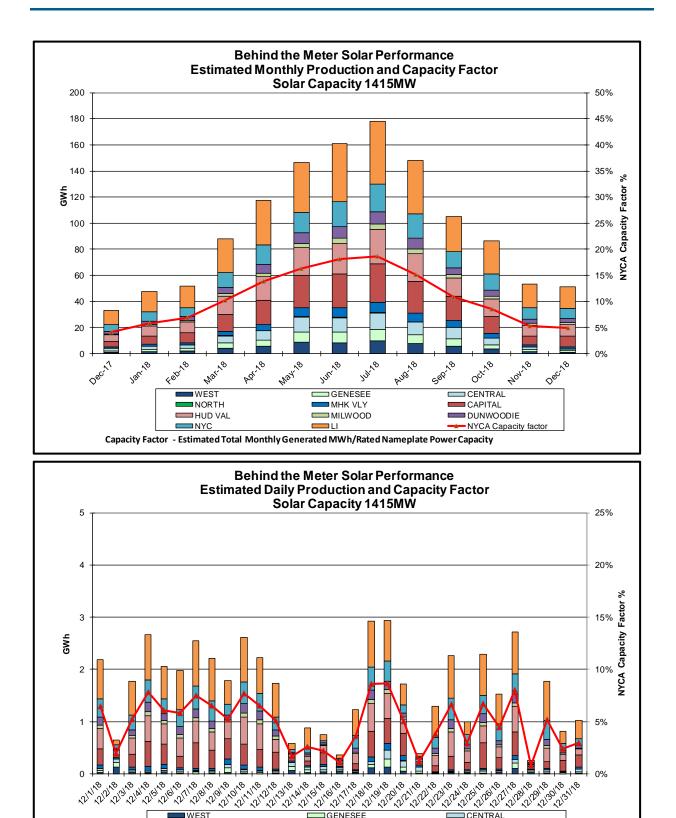












GENESEE

MHK VLY

MILWOOD

Capacity Factor - Estimated Total Daily Generated MWh/Rated Nameplate Power Capacity

WEST

NYC

NORTH

HUD VAL

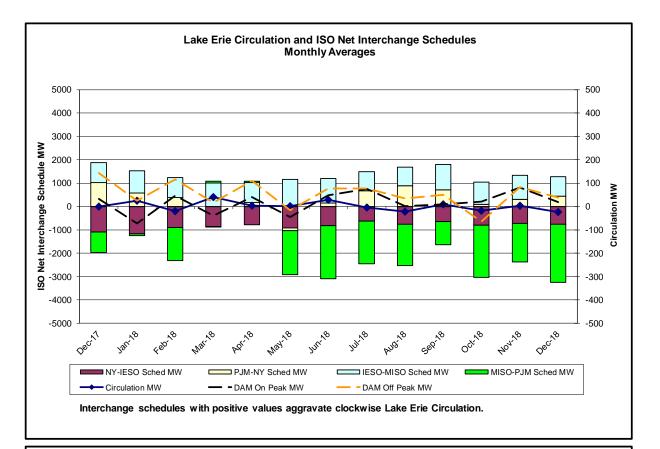
518 118 118 118 18 18

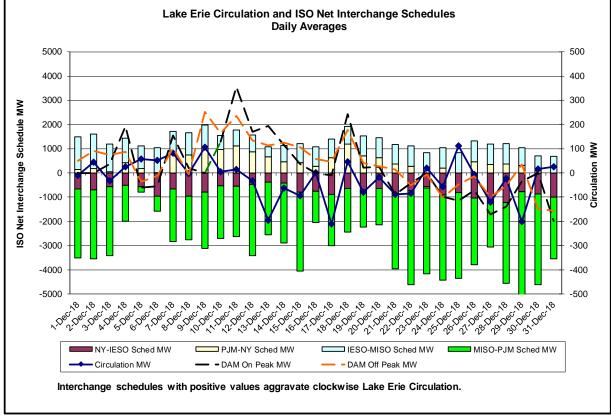
CENTRAL

CAPITAL

DUNWOODIE

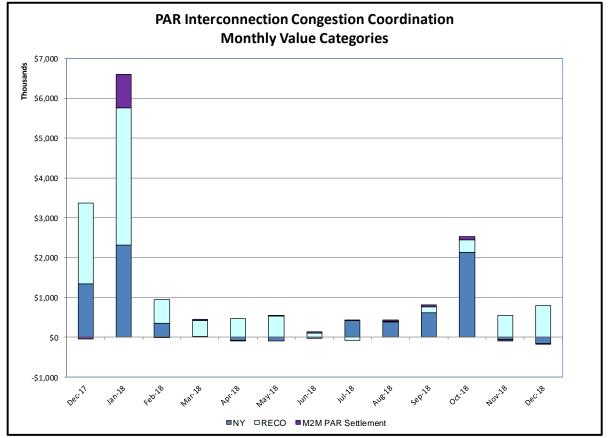




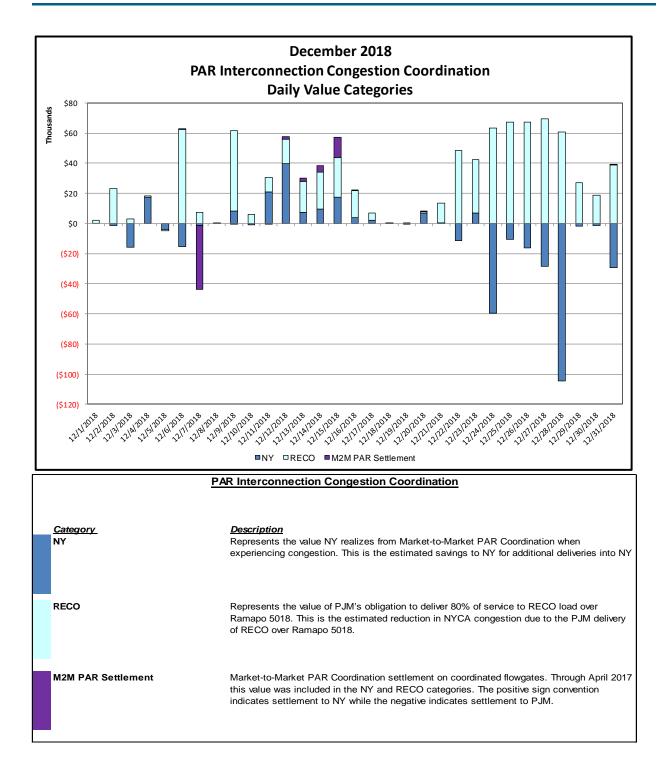




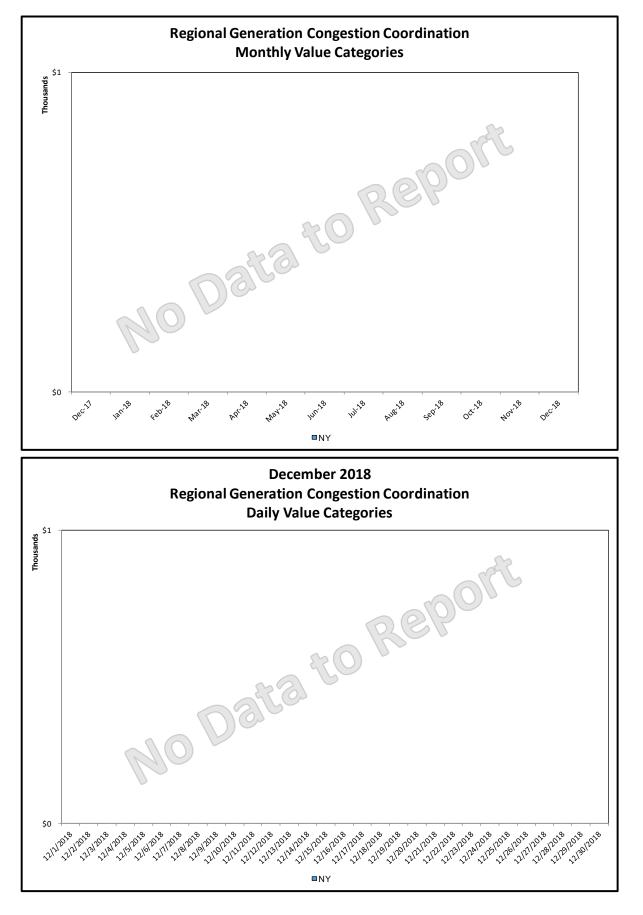












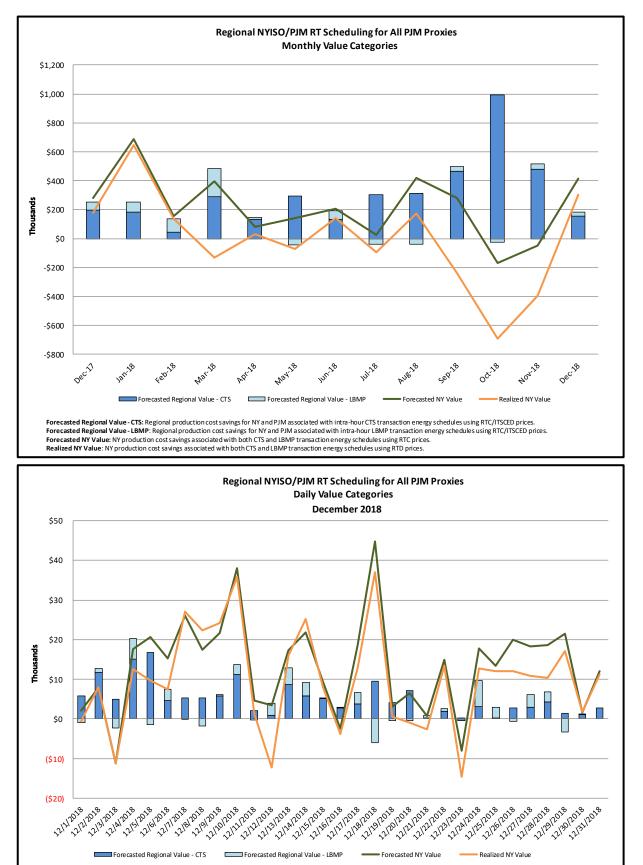


Regional Generation Congestion Coordination

<u>Category</u> NY

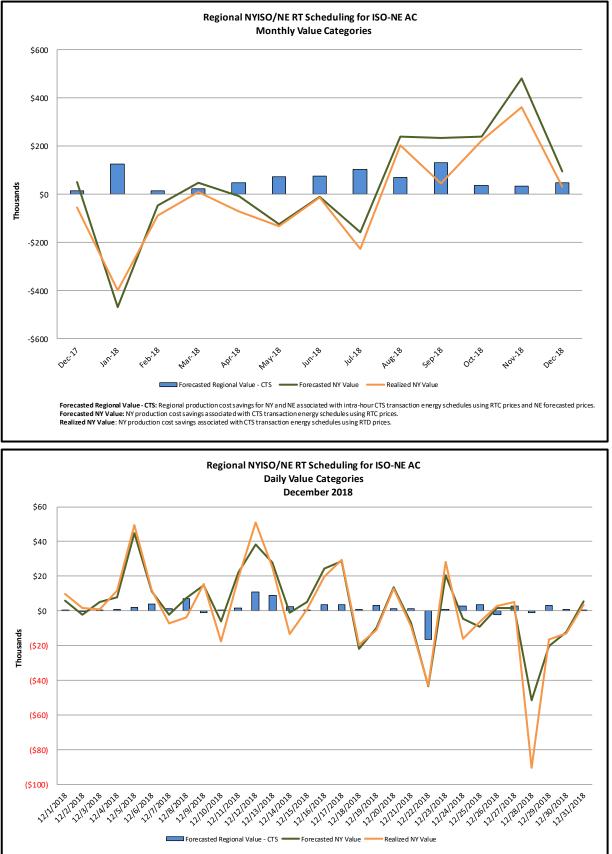
<u>Description</u> NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient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





Forecasted Regional Value - CTS: Regional production cost savings for NY and PJM associated with intra-hour CTS transaction energy schedules using RTC/ITSCED prices. Forecasted Regional Value - LBMP: Regional production cost savings for NY and PJM associated with intra-hour LBMP transaction energy schedules using RTC/ITSCED prices. Forecasted NY Value: NY production cost savings associated with both CTS and LBMP transaction energy schedules using RTC prices. Realized NY Value: NY production cost savings associated with both CTS and LBMP transaction energy schedules using RTC prices.

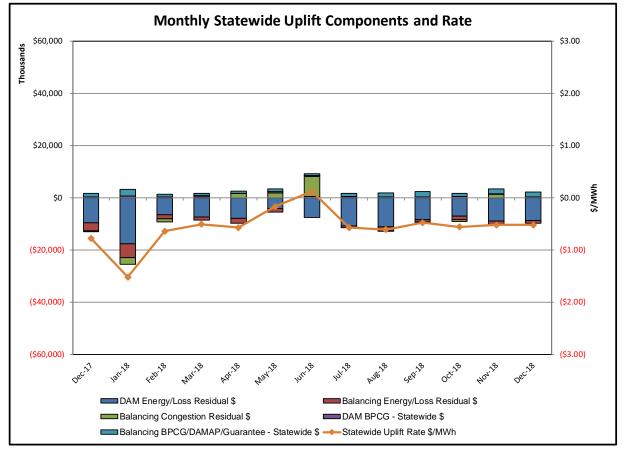




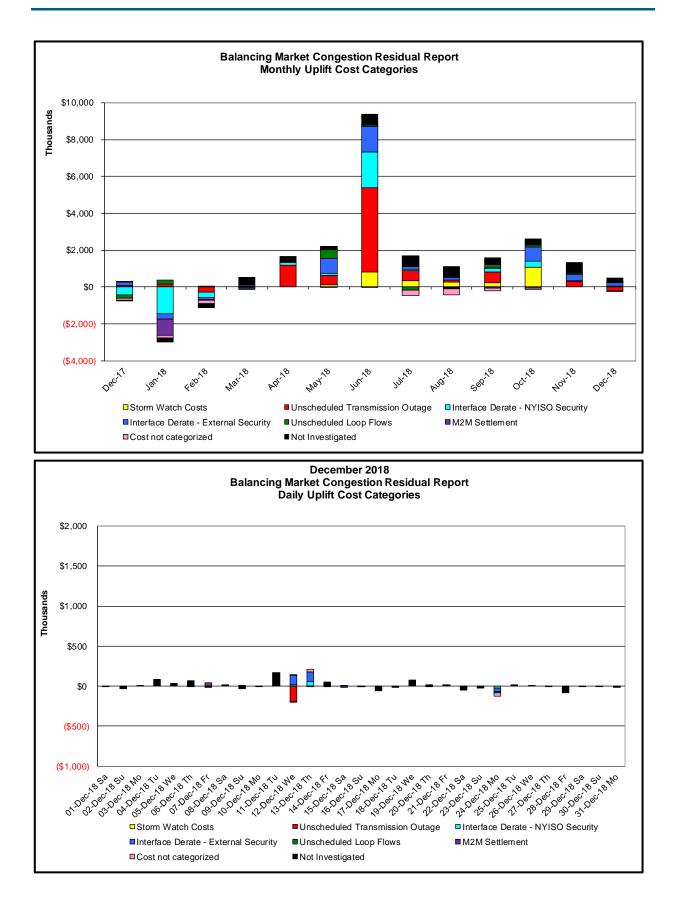
Forecasted Regional Value - CTS: Regional production cost savings for NY and NE associated with intra-hour CTS transaction energy schedules using RTC prices and NE forecasted prices. Forecasted NY Value: NY production cost savings associated with CTS transaction energy schedules using RTC prices. Realized NY Value: NY production cost savings associated with CTS transaction energy schedules using RTD prices.



Market Performance Metrics







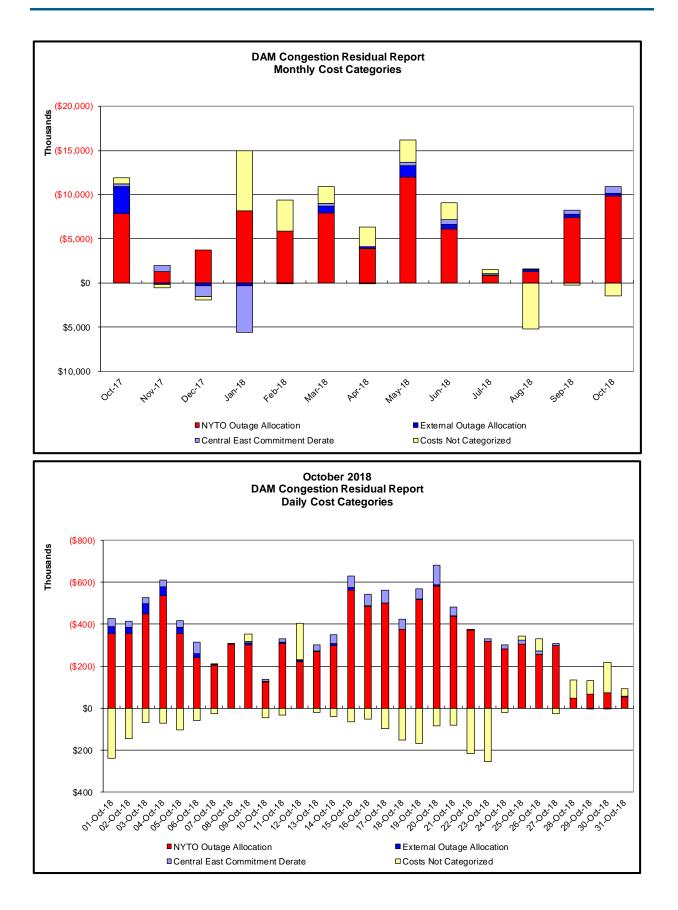


Day's investigated in December: 12, 13, 24								
Event	Date (yyyymmdd)	Hours	Description					
	12/12/2018	12,16	Early Return to Service Gowanus-Greenwood 138kV (#42232)					
	12/12/2018	2,3	Derate Central East					
	12/12/2018	0,1,4,6	HQ_CEDARS-NY Scheduling Limit					
	12/12/2018	0-4,6,7	NE_AC-NY Scheduling Limit					
	12/12/2018	2	NE_AC DNI Ramp Limt					
	12/13/2018	7,15	NYCA DNI Ramp Limit					
	12/13/2018	1-4,15,17,23	Derate Sprainbrook-East Garden City 345kV (#Y49)					
	12/13/2018	0-7,15,17,23	NE_AC-NY Scheduling Limit					
	· · · · · · · · · · · · · · · · · · ·		7 NE_AC DNI Ramp Limt					
			PJM_AC DNI Ramp Limit					
	12/24/2018	15	NYCA DNI Ramp Limit					
	12/24/2018	0	Derate Central East					
	12/24/2018	12,14	Uprate Central East					
	12/24/2018	0,8,16	NE_AC DNI Ramp Limit					
	12/24/2018	0,14,15	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East					

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

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



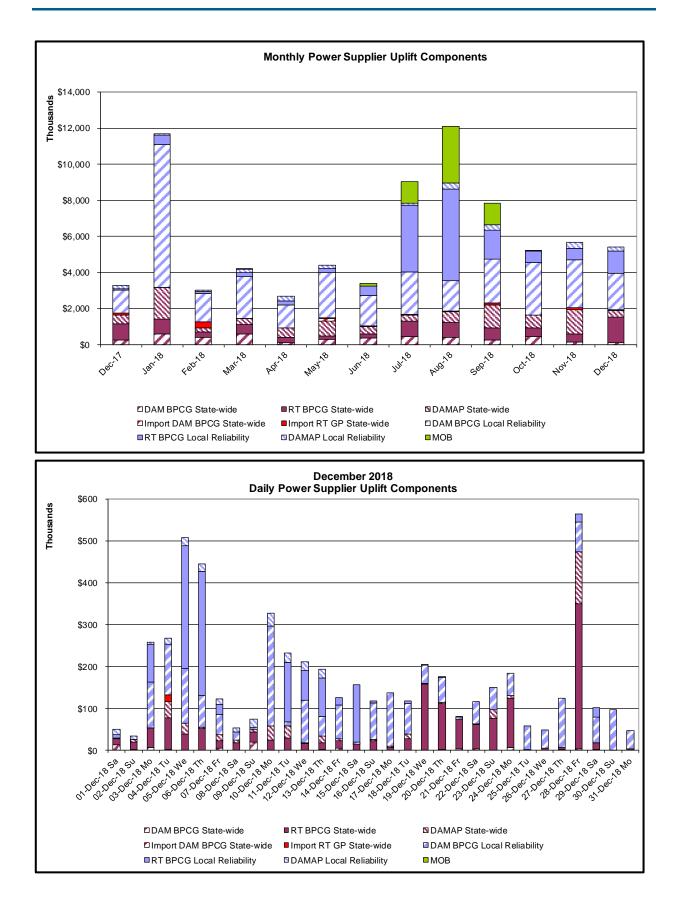




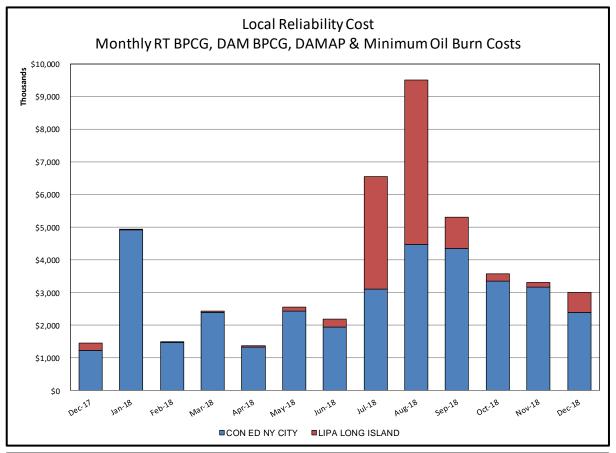
Day-Ahead Market Congestion Residual Categories

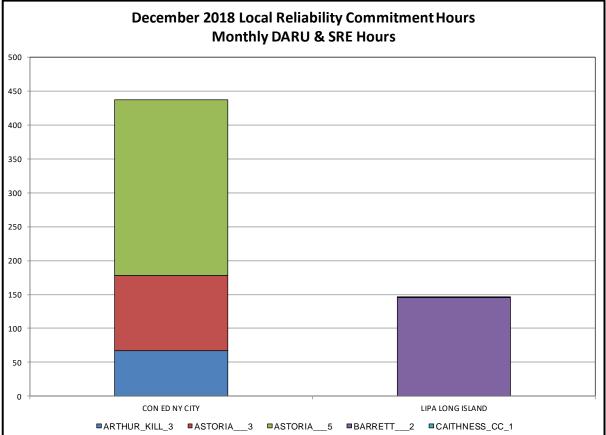
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	<u>Event Examples</u> DAM scheduled outage for equipment modeled in- service for the TCC Auction.
External Outage Allocation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



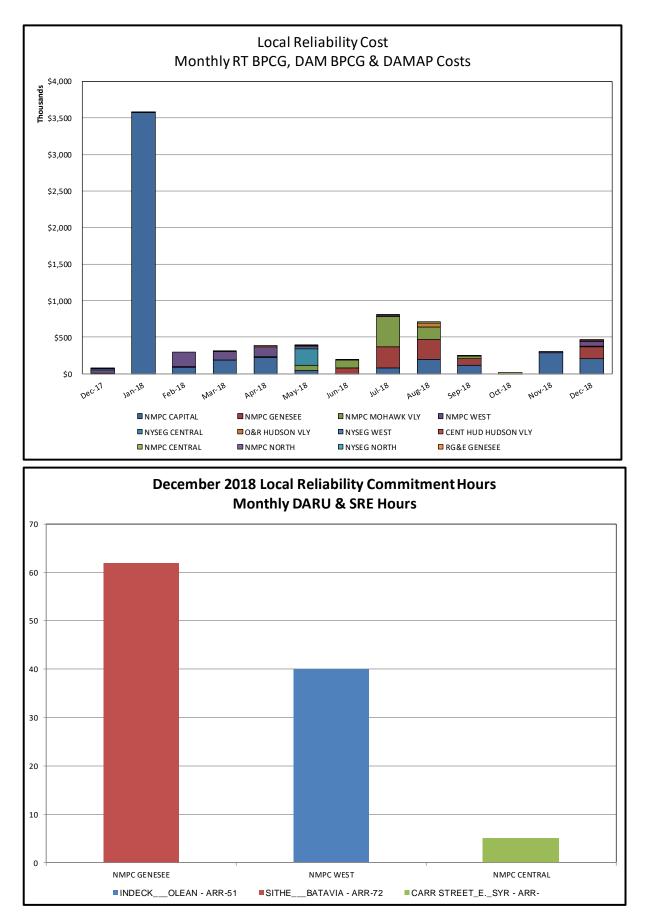




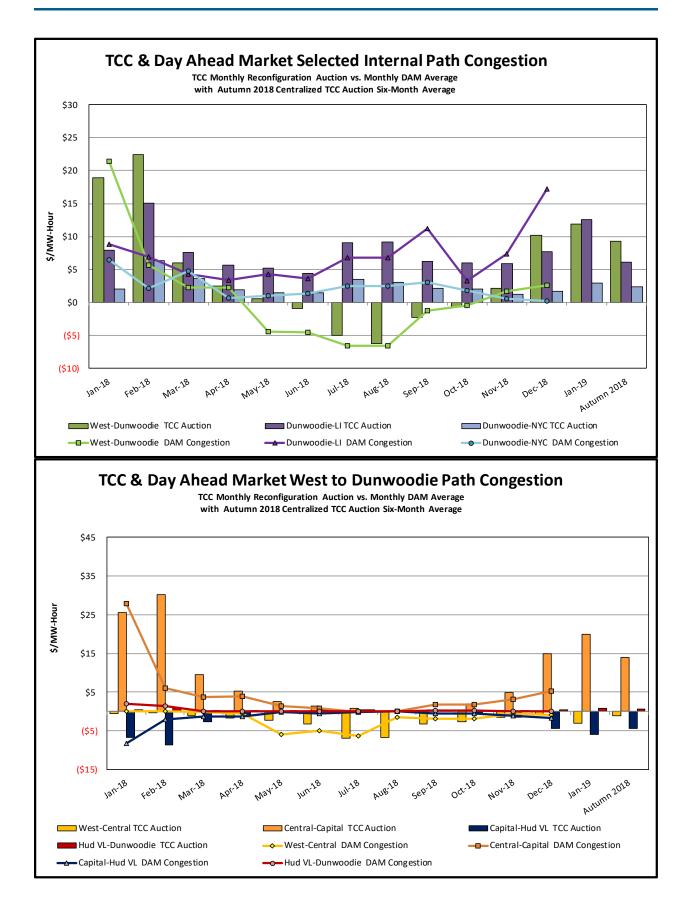




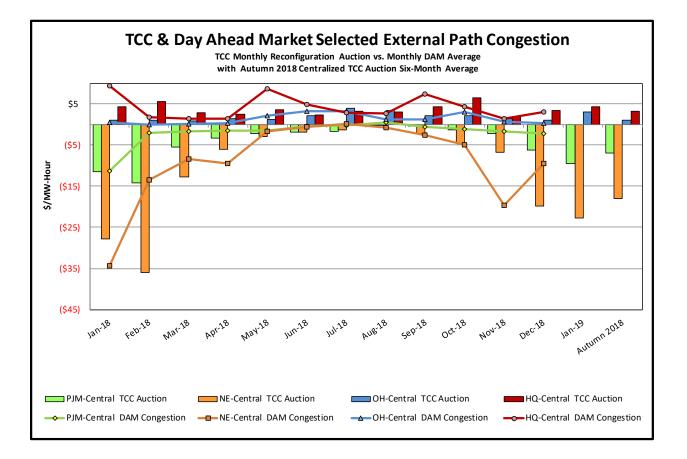




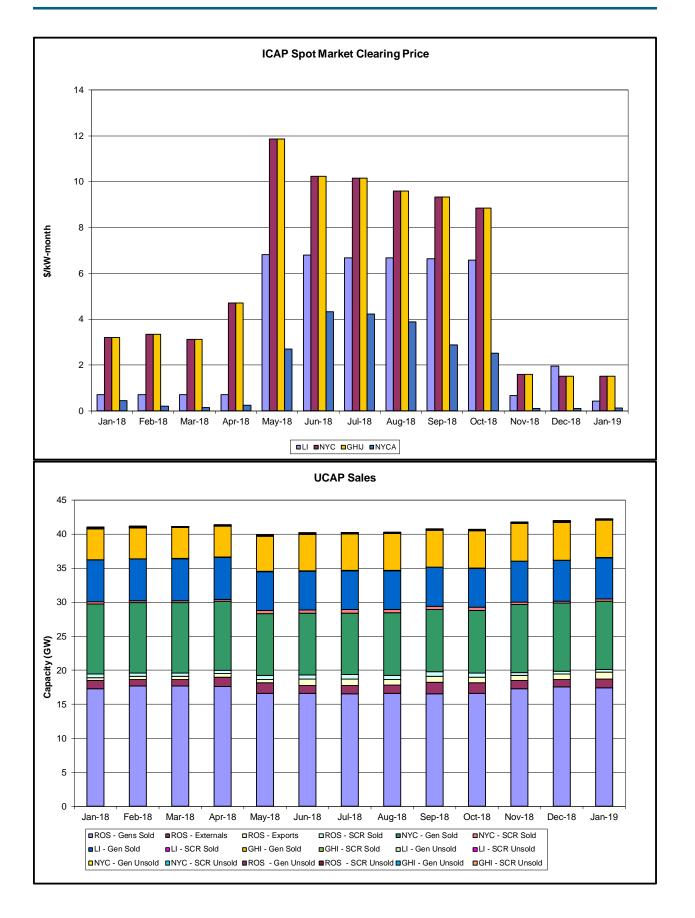






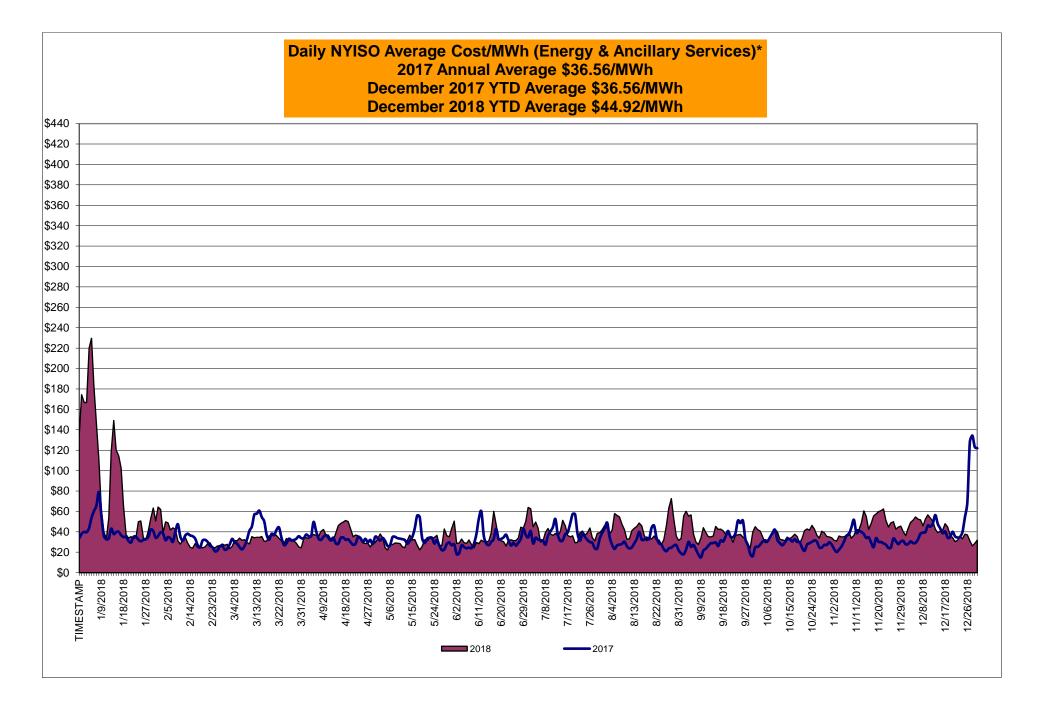






Market Performance Highlights December 2018

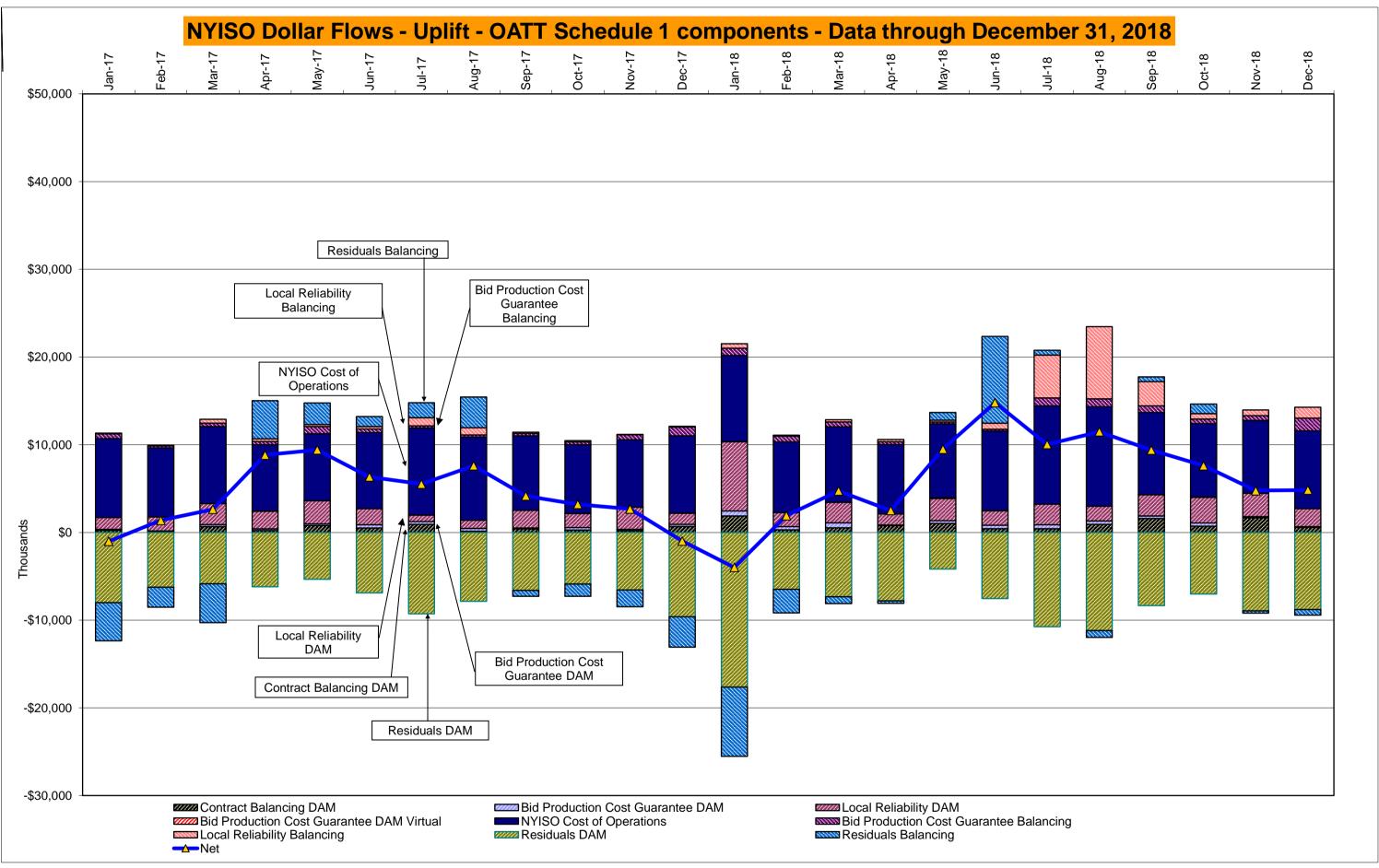
- LBMP for December is \$40.31/MWh; lower than \$43.15/MWh in November 2018 and \$52.63/MWh in December 2017.
 - Day Ahead and Real Time Load Weighted LBMPs are lower compared to November.
- December 2018 average year-to-date monthly cost of \$44.92/MWh is a 23% increase from \$36.56/MWh in December 2017.
- Average daily sendout is 425 GWh/day in December; higher than 411 GWh/day in November 2018 and lower than 444 GWh/day in December 2017.
- Natural gas and distillate prices were lower compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$4.10/MMBtu, down from \$4.23/MMBtu in November.
 - Natural gas prices are down 3.2% year-over-year.
 - Jet Kerosene Gulf Coast was \$12.54/MMBtu, down from \$14.50/MMBtu in November.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$12.84/MMBtu, down from \$14.72/MMBtu in November.
 - Distillate prices are down 7.3% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.29)/MWh; lower than (\$0.27)/MWh in November.
 - Local Reliability Share is \$0.23/MWh, lower than \$0.25/MWh in November.
 - Statewide Share is (\$0.52)/MWh, same as (\$0.52)/MWh in November.
 - TSA \$ per NYC MWh is \$0.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than November.



* Excludes ICAP payments.

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2018	January	<u>February</u>	March	<u>April</u>	May	June	July	August	<u>September</u>	<u>October</u>	November	December
LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	40.31
NTAC	0.71	0.58	0.88	1.09	0.88	1.00	0.93	0.72	0.40	0.36	1.18	0.93
Reserve	0.92	0.65	0.64	0.81	0.68	0.57	0.49	0.51	0.52	0.80	0.66	0.54
Regulation	0.15	0.15	0.16	0.12	0.14	0.16	0.09	0.09	0.09	0.16	0.17	0.17
NYISO Cost of Operations	0.65	0.65	0.66	0.65	0.66	0.67	0.67	0.66	0.66	0.63	0.63	0.63
FERC Fee Recovery	0.08	0.10	0.09	0.10	0.09	0.09	0.06	0.06	0.08	0.09	0.09	0.08
Uplift	(0.92)	(0.50)	(0.31)	(0.45)	0.05	0.30	(0.13)	(0.02)	(0.11)	(0.30)	(0.27)	(0.29)
Uplift: Local Reliability Share	0.59	0.14	0.19	0.12	0.22	0.18	0.44	0.59	0.37	0.27	0.25	0.23
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)	(0.57)	(0.17)	0.12	(0.57)	(0.61)	(0.48)	(0.56)	(0.52)	(0.52)
Voltage Support and Black Start	0.40	0.41	0.42	0.41	0.42	0.42	0.42	0.42	0.42	0.40	0.40	0.40
Avg Monthly Cost	101.54	35.87	32.45	37.74	31.70	35.73	42.12	45.01	40.76	38.00	46.01	42.78
Avg YTD Cost	101.54	72.85	60.06	54.82	50.20	47.70	46.64	46.37	45.75	45.03	45.11	44.92
TSA \$ per NYC MWh	0.00	0.00	0.04	0.00	0.08	0.39	0.21	0.14	0.33	0.75	0.00	0.00
2017	<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
LBMP	40.07	30.95	34.97	31.06	31.74	31.76	35.84	30.57	29.57	28.35	30.60	52.63
NTAC	0.66	1.11	0.86	1.05	0.79	0.62	0.87	0.59	0.62	0.50	0.75	0.81
Reserve	0.70	0.67	0.74	0.70	0.61	0.55	0.48	0.44	0.47	0.59	0.55	0.71
Regulation	0.14	0.12	0.13	0.17	0.16	0.13	0.10	0.10	0.11	0.13	0.20	0.15
NYISO Cost of Operations	0.65	0.65	0.65	0.65	0.62	0.63	0.63	0.63	0.63	0.62	0.61	0.60
FERC Fee Recovery	0.09	0.10	0.10	0.12	0.10	0.09	0.07	0.08	0.09	0.10	0.10	0.08
Uplift	(0.73)	(0.54)	(0.46)	0.12	0.10	(0.37)	(0.43)	(0.19)	(0.34)	(0.36)	(0.40)	(0.68)
Uplift: Local Reliability Share	0.10	0.13	0.21	0.20	0.24	0.15	0.11	0.12	0.16	0.14	0.20	0.09
Uplift: Statewide Share	(0.83)	(0.67)	(0.67)	(0.08)	(0.13)	(0.52)	(0.54)	(0.31)	(0.50)	(0.50)	(0.60)	(0.78)
Voltage Support and Black Start	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37
Avg Monthly Cost	41.96	33.44	37.38	34.26	34.52	33.80	37.94	32.60	31.54	30.31	32.79	54.67
Avg YTD Cost	41.96	38.02	37.81	37.05	36.54	36.01	36.35	35.80	35.34	34.89	34.72	36.56
TSA \$ per NYC MWh	0.00	0.00	0.00	0.08	0.12	0.56	0.42	0.23	0.00	0.00	0.00	0.00

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



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches. DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart. DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

NYISO Markets Transactions

2018	January	February	March	<u>April</u>	May	June	<u>July</u>	August	September	October	November	December
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	17,195,447	14,432,632	13,548,828	13,506,134	14,450,460
DAM LSE Internal LBMP Energy Sales	59%	57%	58%	60%	61%	61%	65%	65%	61%	57%	58%	56%
DAM External TC LBMP Energy Sales	4%	3%	2%	2%	2%	1%	1%	2%	3%	6%	50 % 6%	6%
DAM Bilateral - Internal Bilaterals	29%	31%	32%	30%	29%	30%	26%	25%	28%	29%	30%	30%
DAM Bilateral - Importi/Non-LBMP Market Bilaterals	5%	5%	5%	5%	20% 5%	5%	4%	4%	5%	5%	2%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	2%
DAM Bilateral - Wheel Through Bilaterals	1%	2%	2%	2%	2%	2%	2%	2%	2%	1%	1%	2%
Balancing Energy Market MWh	-149,619	-299,377	-386,811	-72,862	-29,539	-354,112	-80,438	-44,732	-210,436	-314,885	-304,277	-428,748
Balancing Energy LSE Internal LBMP Energy Sales	-147%	-101%	-128%	-208%	-458%	-113%	-123%	-75%	-82%	-105%	-100%	-94%
Balancing Energy External TC LBMP Energy Sales	74%	24%	37%	189%	400 <i>%</i> 564%	29%	129%	209%	14%	30%	18%	27%
Balancing Energy Bilateral - Internal Bilaterals	9%	5%	0%	-11%	29%	5%	18%	203%	7%	2%	3%	3%
Balancing Energy Bilateral - Importi/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%	9%	6%	34%	51%	3%	14%	25%	3%	0%	0%	0%
Balancing Energy Bilateral - Wheel Through Bilaterals	-58%	-36%	-15%	-103%	-287%	-23%	-138%	-281%	-42%	-27%	-31%	-36%
Transactions Summary									/0		0170	
LBMP	63%	59%	59%	62%	63%	61%	66%	68%	64%	63%	64%	61%
Internal Bilaterals	30%	32%	33%	30%	29%	31%	27%	25%	28%	30%	31%	31%
Import Bilaterals	5%	5%	53 <i>%</i> 6%	5%	29 <i>%</i> 5%	5%	4%	4%	20 <i>%</i> 5%	5%	3%	5%
Export Bilaterals	2%	2%	2%	2%	2%	1%	4 <i>%</i> 1%	+ <i>n</i> 1%	1%	2%	2%	2%
Wheels Through	1%	1%	1%	1%	1%	2%	1%	1%	2%	1%	1%	1%
Market Share of Total Load	170	170	170	170	170	270	170	170	270	170	170	170
Day Ahead Market	101.0%	102.4%	102.9%	100.6%	100.2%	102.6%	100.5%	100.3%	101.5%	102.4%	102.3%	103.1%
Balancing Energy +	-1.0%	-2.4%	-2.9%	-0.6%	-0.2%	-2.6%	-0.5%	-0.3%	-1.5%	-2.4%	-2.3%	-3.1%
Total MWH	15,004,132	12,344,477	13,134,575	12,085,824	12,691,534	13,629,272	16,759,556	17,150,715	14,222,196	13,233,943	13,201,857	14,021,712
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537	458	399	411	425
	100	120	110		001	110	020		100			120
2017						_		A	0			
	ianiiarv	February	March	Δnril	Mav	lune			Sentember	()ctoher	November	December
2017 Dev Abaad Market MM/b	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	July	August	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 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 Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2%	13,983,865 55% 1% 34% 5% 2% 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% -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 -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 MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing 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 - 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% -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% 2% -510,721 -102% 26% 5% 0%	13,042,826 53% 3% 34% 5% 2% 2% 3% -410,072 -108% 45% 5% 0%	14,829,403 55% 32% 5% 2% 2% -254,003 -99% 25% -1% 0%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals DAM Bilateral - Wheel Through Bilaterals DAM Bilateral - Wheel Through Bilaterals Balancing Energy Market MWh Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing 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%	15,948,927 61% 1% 29% 5% 2% 2% 3% -853,898 -87% 13% 2% 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% 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 - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through 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% -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% 2% -510,721 -102% 26% 5% 0%	13,042,826 53% 3% 34% 5% 2% 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 - Export/Non-LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market 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%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through 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% 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% 2% -666,048 -120% 28% 1% 0% 3% -12%	14,406,180 60% 1% 31% 5% 2% 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% 2% 2% 2% 2% 2% 2% 2% 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% 2% -254,003 -99% 25% -1% 0% 9% -34%
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+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

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

Market Mitigation and Analysis Prepared: 1/9/2019 9:39 AM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

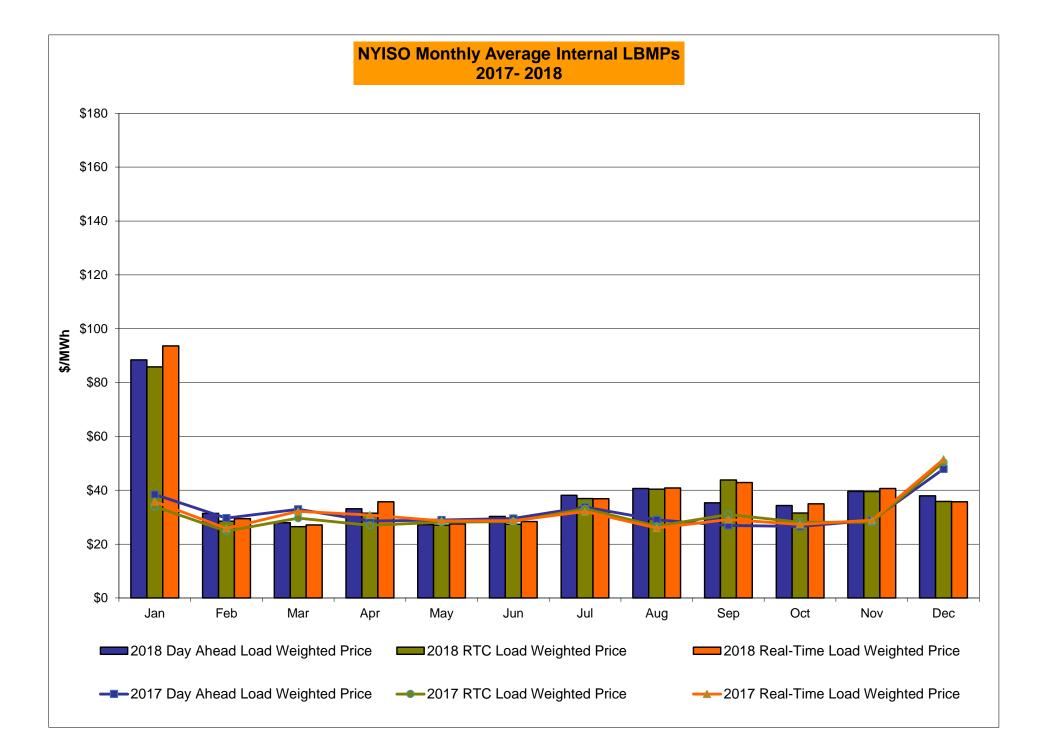
NYISO Markets 2018 Energy Statistics

	<u>January</u>	February	March	April	May	<u>June</u>	July	August	<u>September</u>	<u>October</u>	November [December
DAY AHEAD LBMP								-				
Price *	\$83.53	\$30.37	\$27.37	\$32.40	\$25.97	\$28.41	\$35.73	\$38.00	\$33.28	\$33.27	\$38.36	\$36.88
Standard Deviation	\$58.94	\$12.38	\$6.34	\$9.06	\$9.22	\$11.42	\$15.25	\$16.51	\$12.01	\$9.24	\$11.36	\$11.61
Load Weighted Price **	\$88.42	\$31.44	\$27.95	\$33.14	\$27.26	\$30.27	\$38.14	\$40.64	\$35.33	\$34.33	\$39.55	\$37.96
RTC LBMP												
Price *	\$81.65	\$27.73	\$25.99	\$30.80	\$25.40	\$26.06	\$34.65	\$38.13	\$39.52	\$30.92	\$38.37	\$35.01
Standard Deviation	\$60.83	\$11.96	\$8.99	\$14.30	\$20.37	\$12.78	\$17.44	\$20.05	\$61.50	\$13.43	\$17.24	\$12.27
Load Weighted Price **	\$85.85	\$28.54	\$26.46	\$31.47	\$27.08	\$27.35	\$36.93	\$40.40	\$43.83	\$31.55	\$39.53	\$35.84
REAL TIME LBMP												
Price *	\$87.94	\$28.50	\$26.49	\$34.53	\$25.57	\$26.31	\$34.34	\$38.07	\$38.15	\$33.88	\$39.18	\$34.74
Standard Deviation	\$87.41	\$17.36	\$12.25	\$26.57	\$23.49	\$24.34	\$18.44	\$27.21	\$46.81	\$37.42	\$26.15	\$17.44
Load Weighted Price **	\$93.59	\$29.49	\$27.09	\$35.72	\$27.47	\$28.38	\$36.84	\$40.87	\$42.87	\$34.94	\$40.63	\$35.70
Average Daily Energy Sendout/Month GWh	463	426	413	390	397	445	529	537	458	399	411	425

NYISO Markets 2017 Energy Statistics

	<u>January</u>	<u>February</u>	March	April	May	June	July	August S	September	<u>October</u>	November [<u>December</u>
DAY AHEAD LBMP Price *	\$37.22	\$28.84	\$32.04	\$27.70	\$27.66	\$27.37	\$31.64	\$27.28	\$25.05	\$25.49	\$27.88	\$45.46
Standard Deviation	\$37.22 \$13.20	\$20.04 \$7.97	\$32.04 \$11.95	\$7.66	\$27.00 \$9.47	\$27.37 \$12.37	\$31.04 \$13.51	\$27.20 \$10.60	\$25.05 \$12.09	\$8.53	۶27.88 9.87	\$45.40 \$31.56
Load Weighted Price **	\$38.42	\$29.66	\$32.96	\$28.56	\$28.95	\$29.52	\$33.78	\$29.00	\$26.95	\$26.57	\$28.83	\$47.90
RTC LBMP												
Price *	\$32.87	\$24.09	\$28.86	\$26.19	\$26.19	\$26.40	\$30.84	\$25.26	\$27.97	\$26.91	\$27.35	\$47.75
Standard Deviation	\$14.57	\$9.52	\$13.70	\$10.36	\$21.29	\$14.76	\$18.14	\$13.08	\$27.14	\$13.40	\$10.54	\$37.33
Load Weighted Price **	\$33.96	\$24.81	\$29.67	\$26.98	\$28.10	\$28.39	\$33.13	\$26.65	\$30.98	\$28.13	\$28.15	\$50.39
REAL TIME LBMP												
Price *	\$34.61	\$25.14	\$31.21	\$29.61	\$26.56	\$26.16	\$29.47	\$24.36	\$26.08	\$25.95	\$27.91	\$48.42
Standard Deviation	\$18.20	\$14.21	\$25.02	\$39.82	\$26.11	\$19.00	\$20.25	\$14.03	\$25.72	\$14.49	\$15.86	\$42.66
Load Weighted Price **	\$35.80	\$25.84	\$32.21	\$30.81	\$28.64	\$28.67	\$32.11	\$25.95	\$29.13	\$27.33	\$28.90	\$51.49
Average Daily Energy Sendout/Month GWh	431	418	419	377	383	454	498	477	437	398	403	444

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

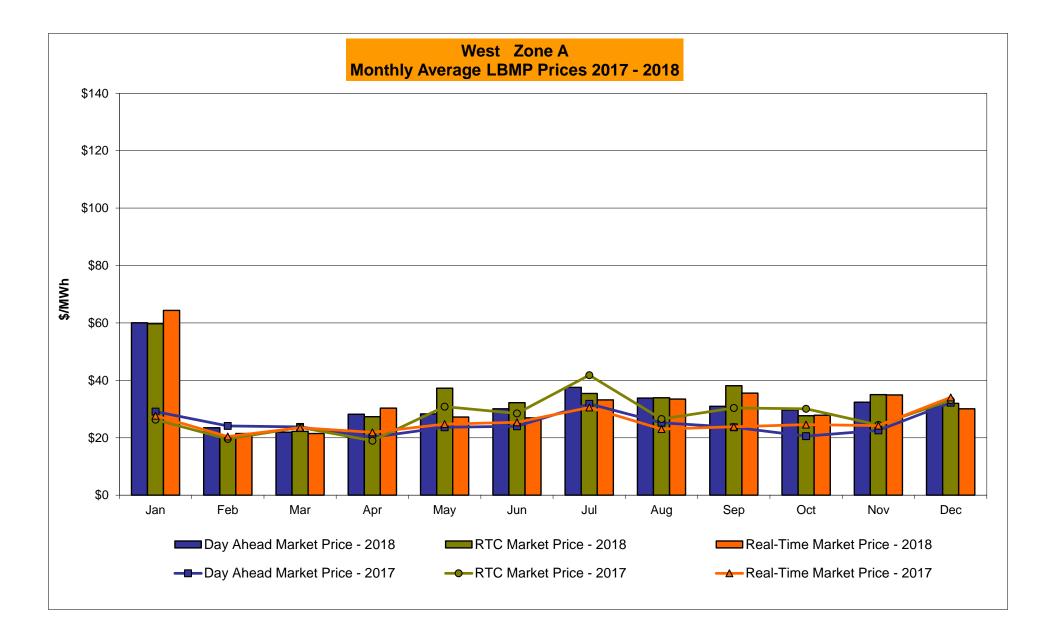


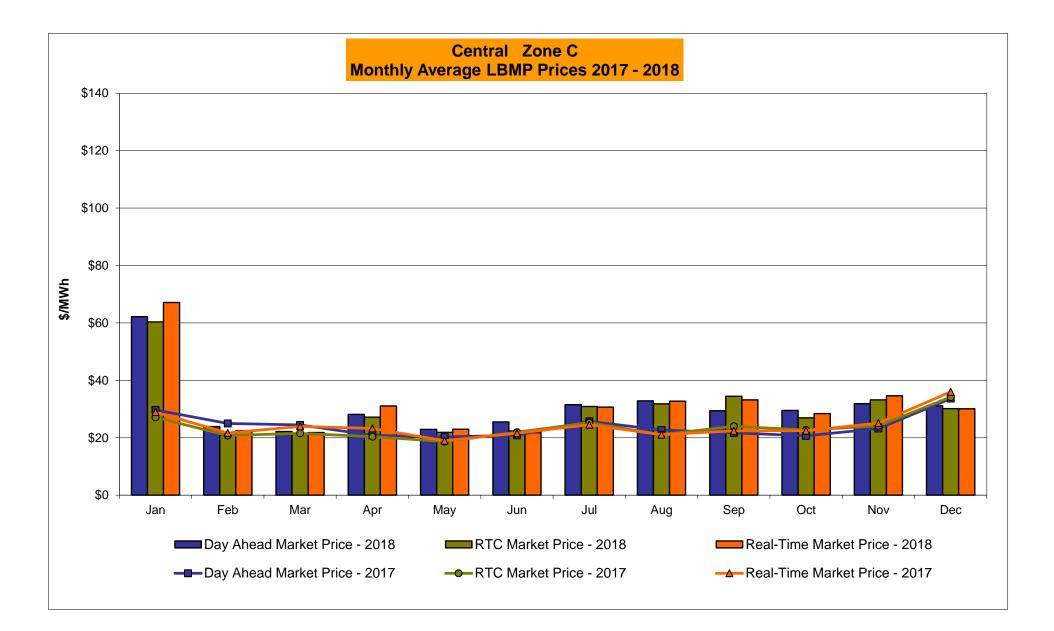
December 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

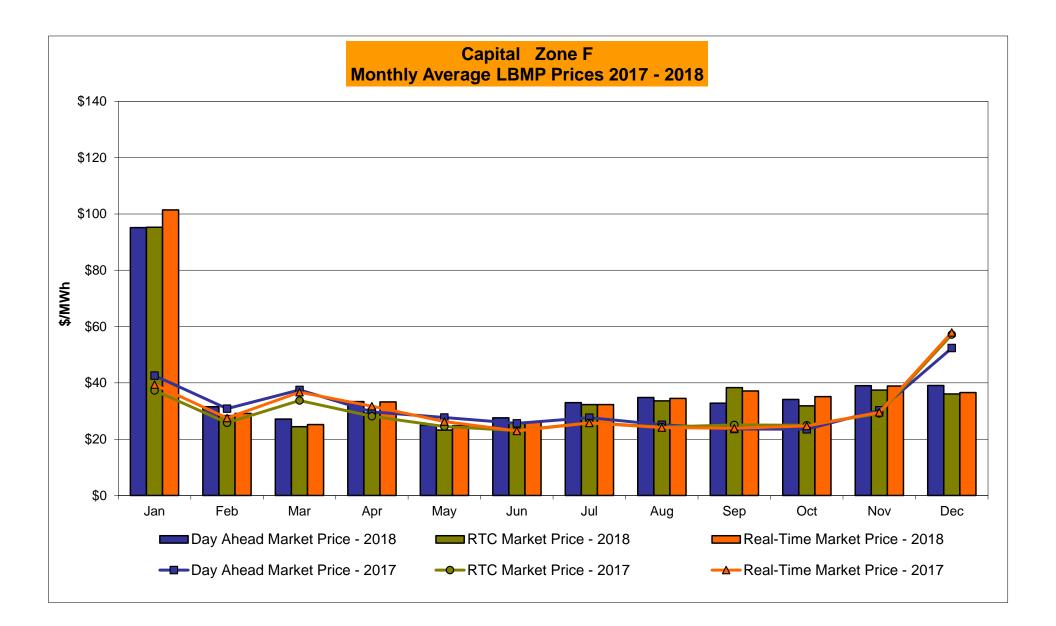
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD I	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	<u>Zone G</u>	<u>Zone H</u>	<u>Zone I</u>	<u>Zone J</u>	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	30.88	30.06	27.07	31.12	31.41	39.05	37.75	37.98	38.01	38.63	47.69
Standard Deviation	12.35	11.34	11.46	11.48	11.58	10.15	10.54	10.62	10.64	11.17	16.93
RTC LBMP											
Unweighted Price *	31.97	29.08	26.77	30.15	30.53	36.07	35.16	35.28	35.27	35.75	45.54
Standard Deviation	18.13	12.00	13.45	12.12	12.33	10.72	10.72	10.76	10.76	11.20	32.82
REAL TIME LBMP											
Unweighted Price *	30.11	29.02	25.37	30.10	30.35	36.56	35.54	35.67	35.66	36.07	44.27
Standard Deviation	18.61	17.55	25.77	17.79	18.16	18.02	17.54	17.62	17.59	17.82	25.68

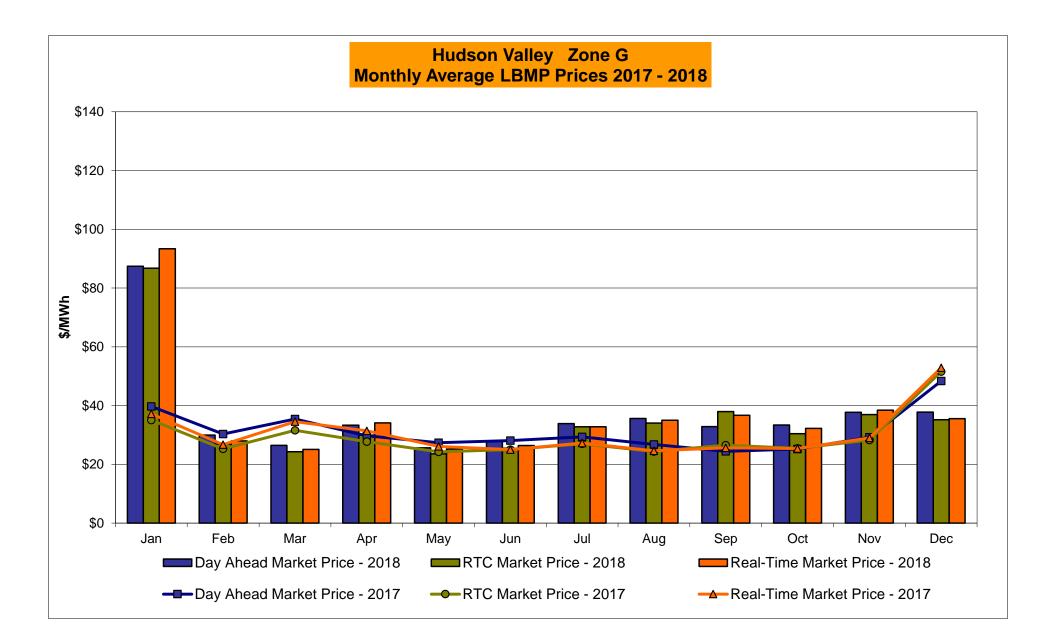
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
						Controllable	<u>Controllable</u>	Controllable	Controllable	<u>Controllable</u>	Controllable
	Zone O	Zone M	Zone M	Zone P	Zone N	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	29.44	27.09	26.60	34.09	42.50	45.80	46.17	43.76	38.17	38.25	26.54
Standard Deviation	10.68	11.57	11.50	10.43	14.23	16.54	17.13	16.14	10.68	10.71	11.15
RTC LBMP											
Unweighted Price *	28.05	26.70	26.23	32.44	41.87	44.70	43.96	42.62	35.46	35.58	26.26
Standard Deviation	11.38	13.38	13.88	10.39	19.51	32.77	32.27	27.61	10.85	10.87	13.14
REAL TIME LBMP											
Unweighted Price *	28.25	25.20	24.82	32.27	39.22	43.69	43.09	41.93	34.82	35.94	23.25
Standard Deviation	16.98	27.17	27.24	16.73	19.30	25.75	25.66	24.53	27.19	17.62	24.90

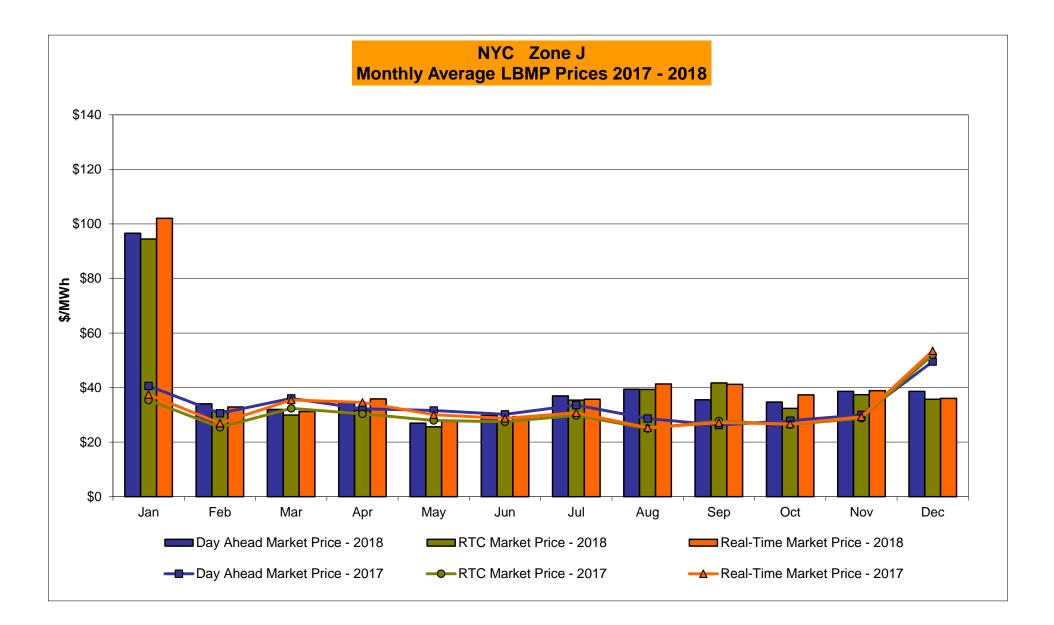
* Straight LBMP averages

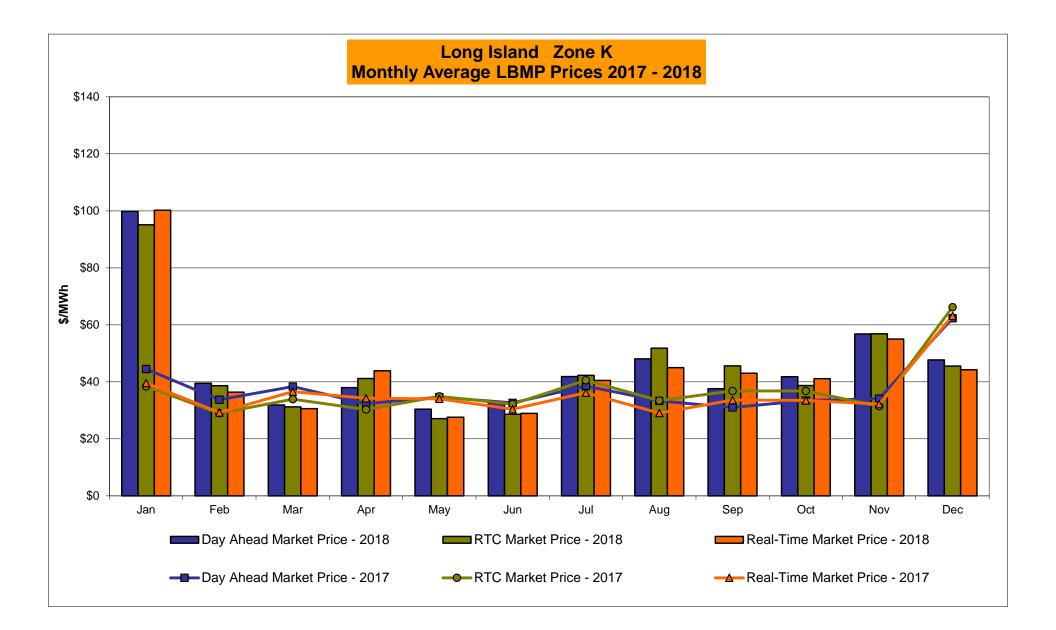


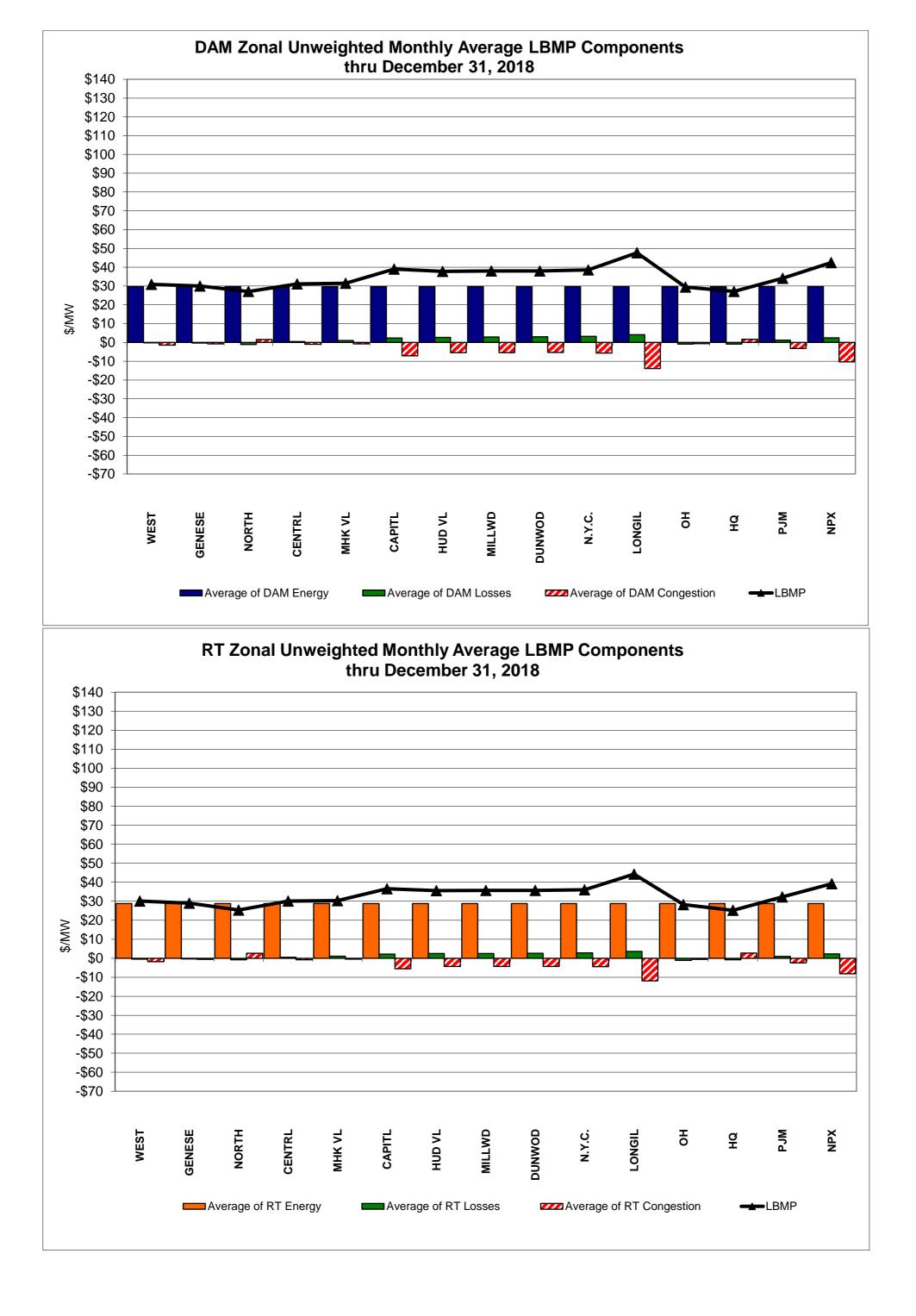




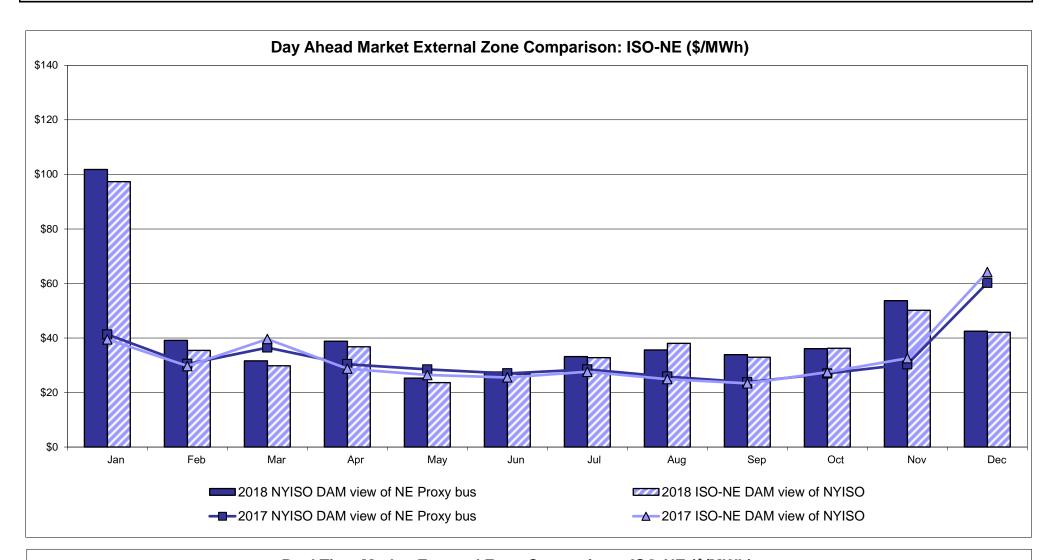


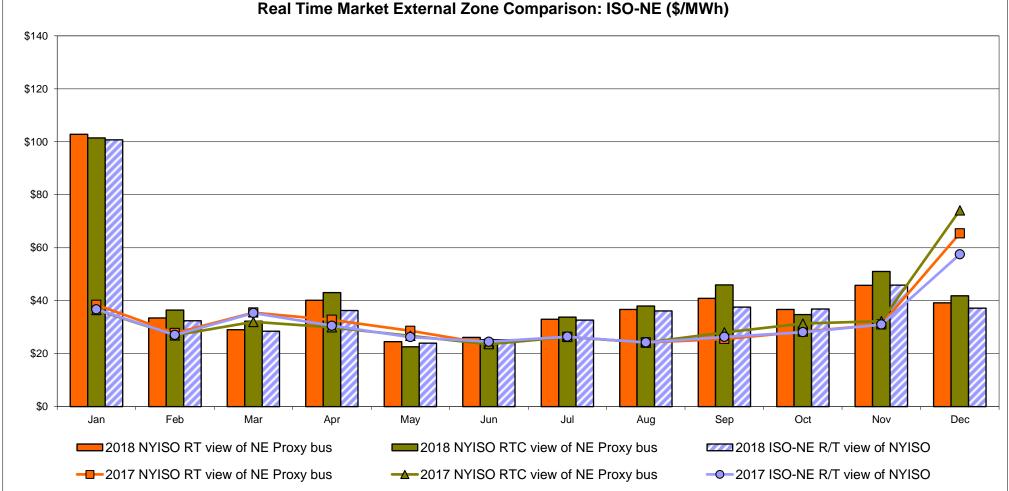




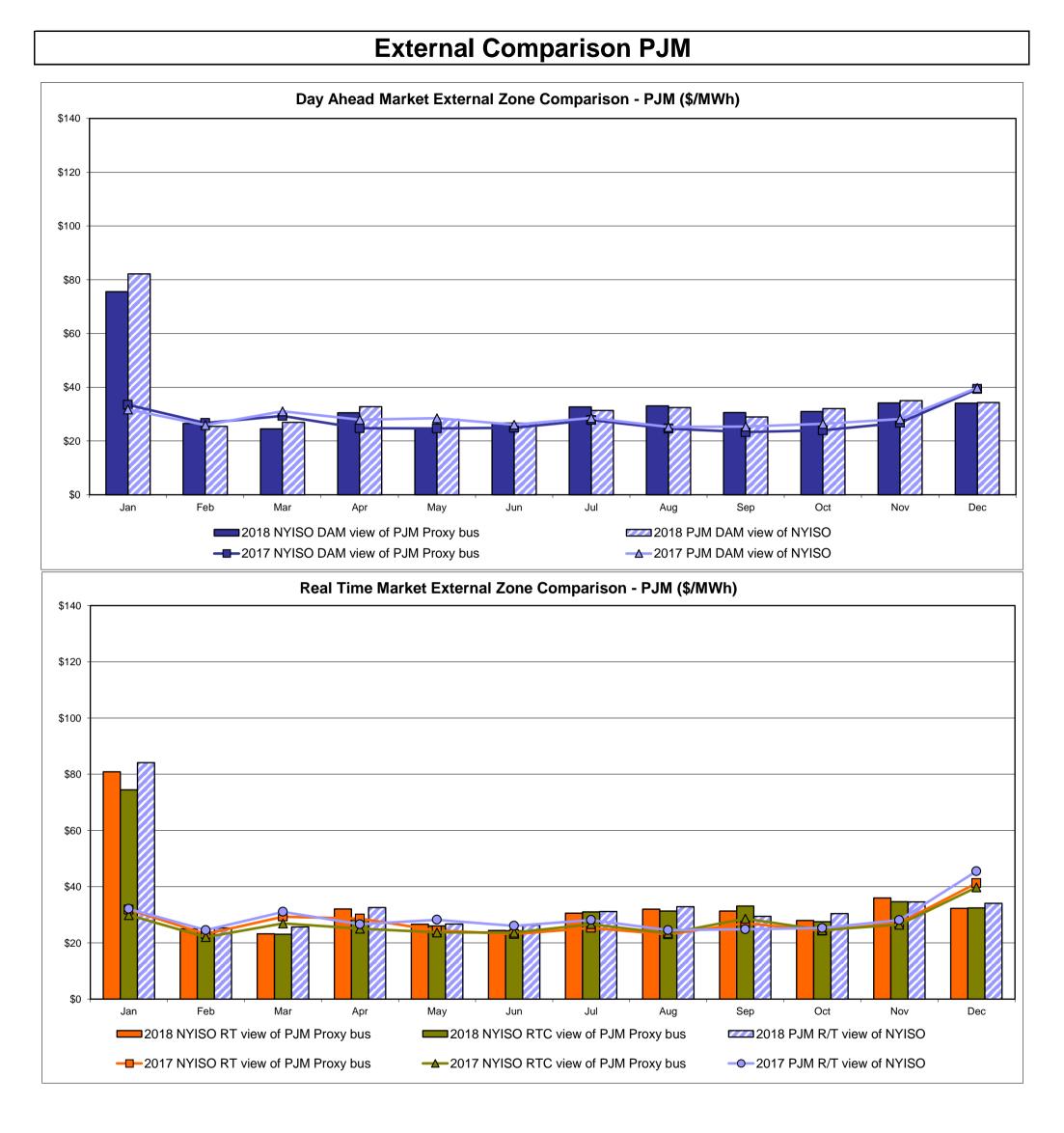


External Comparison ISO-New England

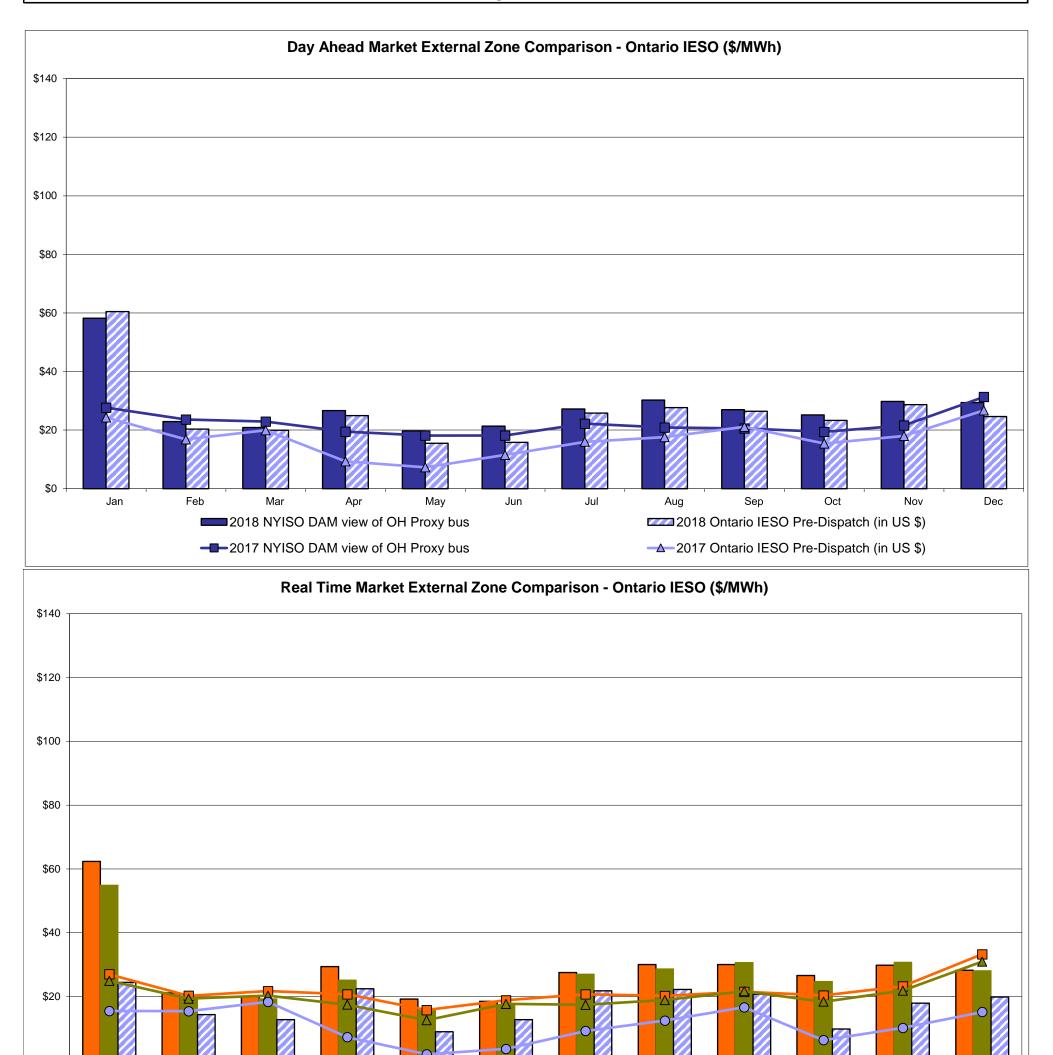


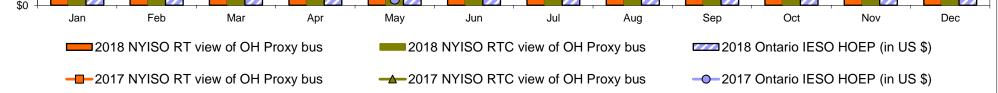


Market Mitigation and Analysis Prepared: 1/9/2019 9:38 AM



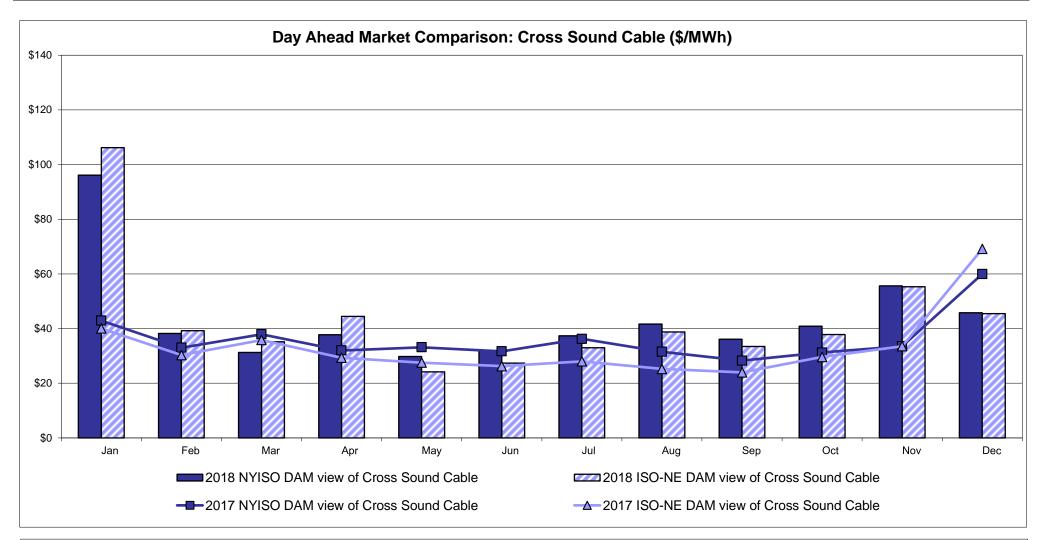
External Comparison Ontario IESO



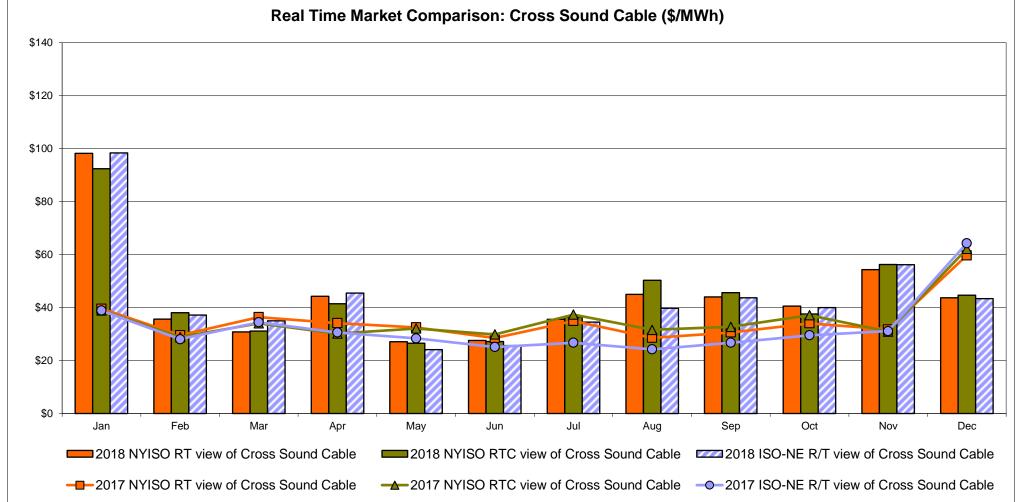


Notes: Exchange factor used for December 2018 was 0.744934445768772 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

Market Mitigation and Analysis Prepared: 1/9/2019 9:38 AM



External Controllable Line: Cross Sound Cable (New England)

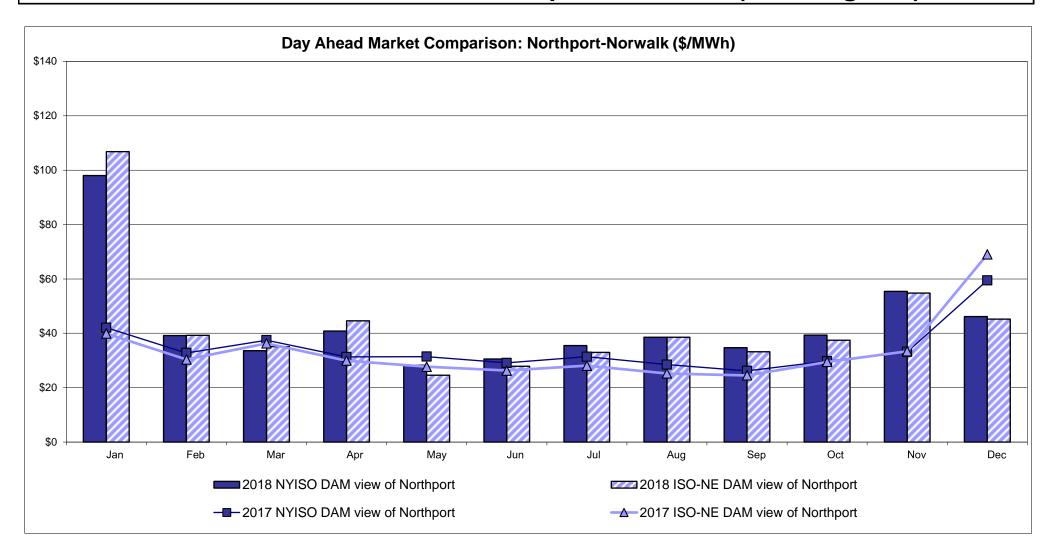


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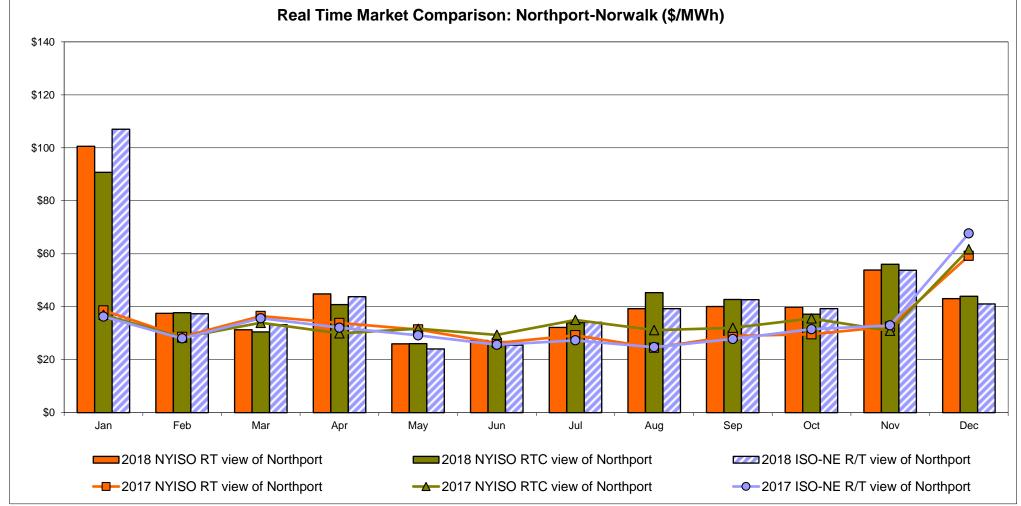
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



External Controllable Line: Northport - Norwalk (New England)

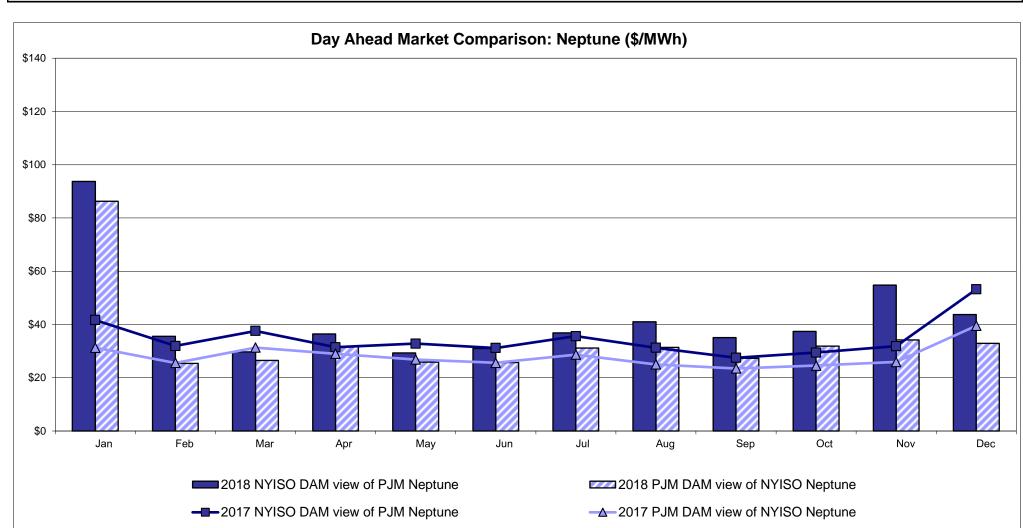


Note:

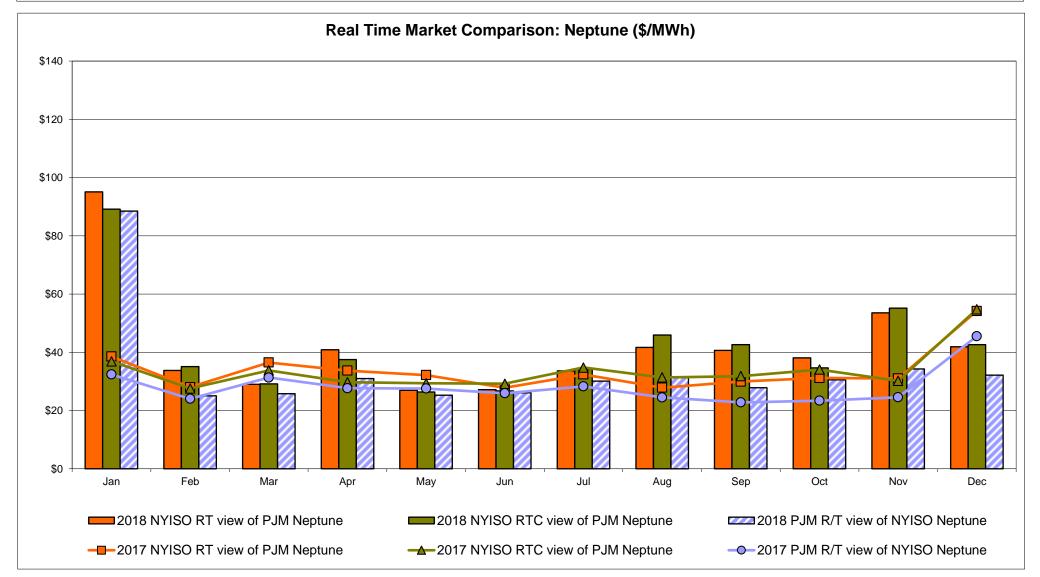
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

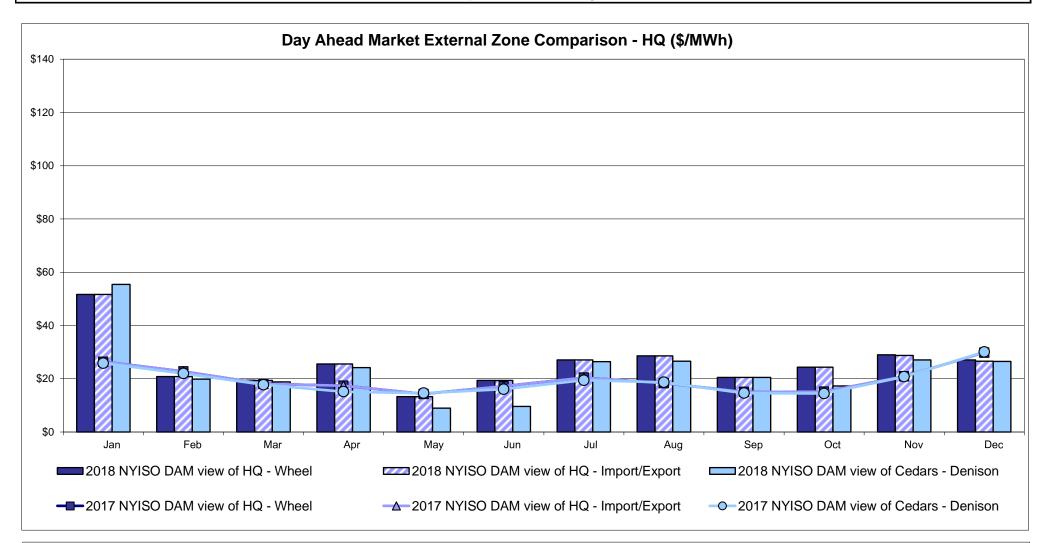
The DAM and R/T prices at the 1385 interface are used for NYISO.

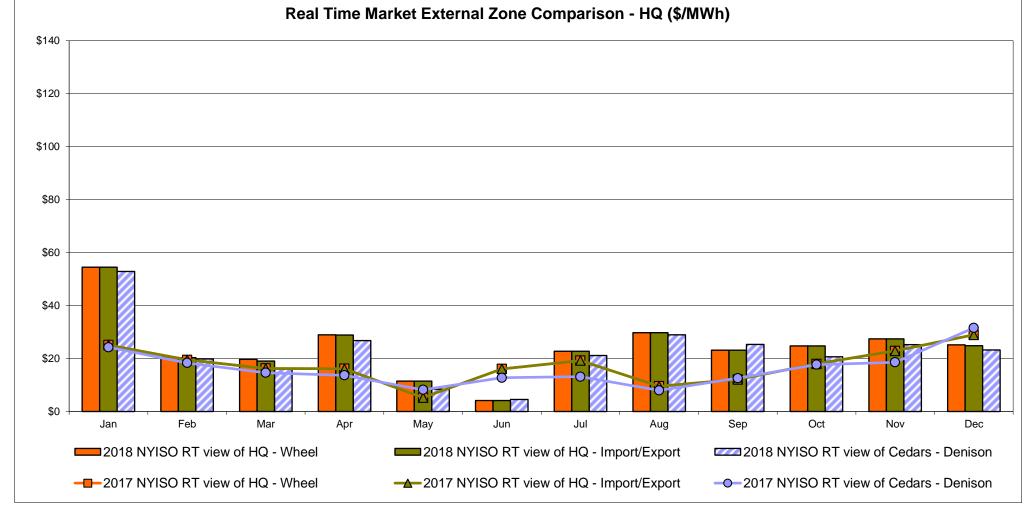


External Controllable Line: Neptune (PJM)



External Comparison Hydro-Quebec

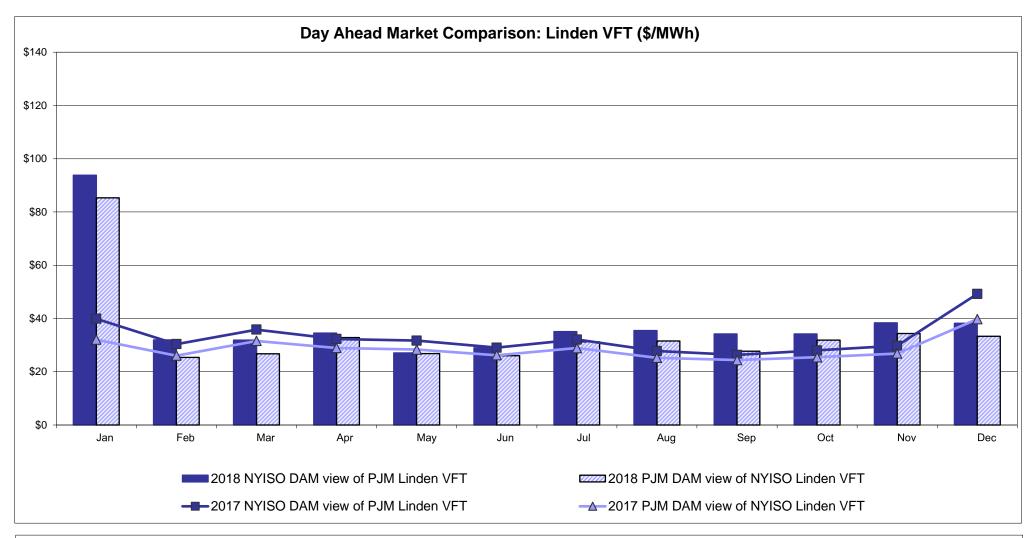


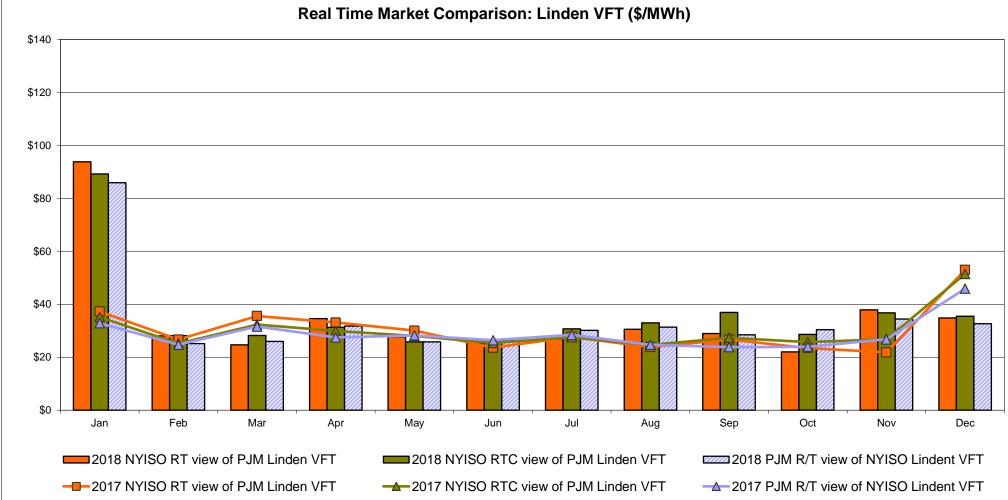


Note:

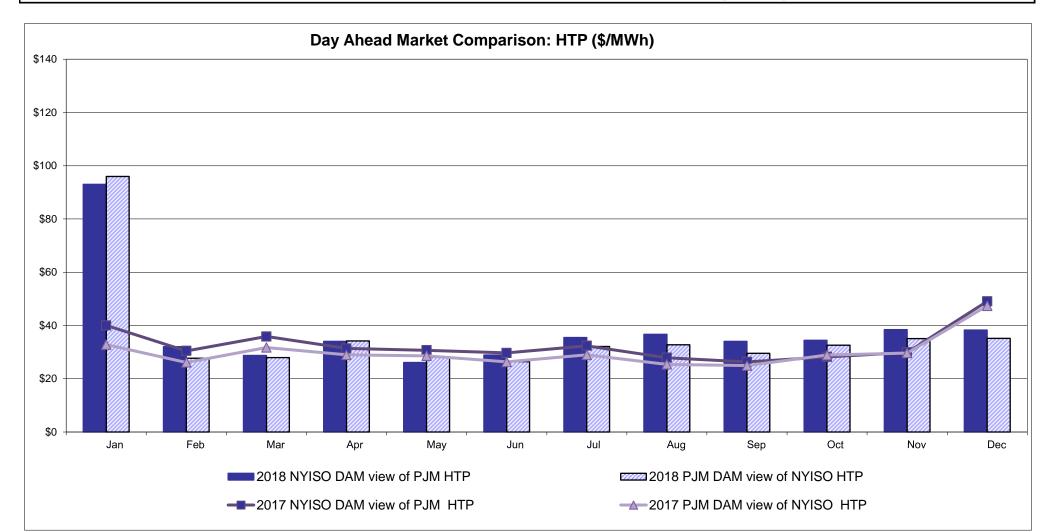
Hydro-Quebec Prices are unavailable.

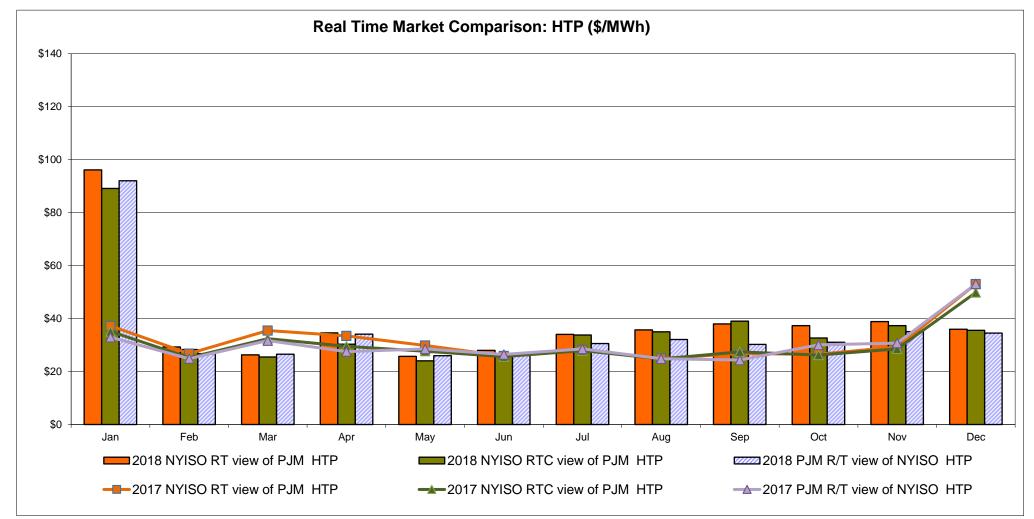






External Controllable Line: Hudson (PJM)





NYISO Real Time Price Correction Statistics

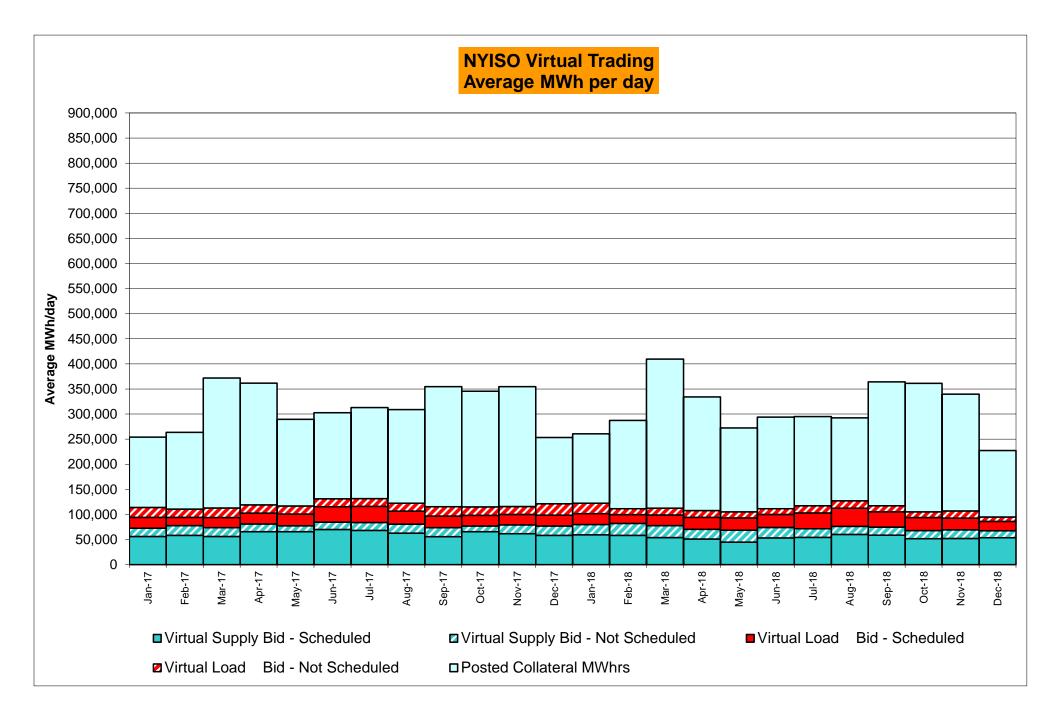
2018		January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	<u>December</u>
Hour Corrections Number of hours with corrections	in the month	0	0	0	4	3	0	0	2	1	0	0	0
Number of hours	in the month	744	672	743	4 720		720	744	2 744	720	744	721	744
% of hours with corrections	in the month	0.00%	0.00%	0.00%	0.56%	0.40%	0.00%	0.00%	0.27%	0.14%	0.00%	0.00%	0.00%
% of hours with corrections Interval Corrections	year-to-date	0.00%	0.00%	0.00%	0.14%	0.19%	0.16%	0.14%	0.15%	0.15%	0.14%	0.12%	0.11%
Number of intervals corrected	in the month	0	0	0	16	6	0	0	5	2	0	0	0
Number of intervals	in the month	9,021	8,112	9,002	8,717	9,033	8,723	9,021	9,071	8,723	8,990	8,763	8,993
% of intervals corrected	in the month	0.00%	0.00%	0.00%	0.18%	0.07%	0.00%	0.00%	0.06%	0.02%	0.00%	0.00%	0.00%
% of intervals corrected	year-to-date	0.00%	0.00%	0.00%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.03%	0.03%	0.03%
Hours Reserved	year-to-date	0.0070	0.0070	0.0070	0.0070	0.0370	0.0470	0.0470	0.0470	0.0470	0.0070	0.0370	0.0378
Number of hours reserved	in the month	7	0	2	7	8	3	2	12	11	24	0	0
Number of hours	in the month	744	672	743	720	744	720	744	744	720	744	721	744
% of hours reserved	in the month	0.94%	0.00%	0.27%	0.97%	1.08%	0.42%	0.27%	1.61%	1.53%	3.23%	0.00%	0.00%
% of hours reserved	year-to-date	0.94%	0.49%	0.42%	0.56%	0.66%	0.62%	0.57%	0.70%	0.79%	1.04%	0.95%	0.87%
Days to Correction *	year-io-uale	0.94 //	0.4976	0.4270	0.50%	0.00%	0.0276	0.37 %	0.70%	0.79%	1.04 /0	0.95%	0.07 /0
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	3.00	0.00	0.00	0.00
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	2.14	2.14	2.14	2.14
Days Without Corrections	year to date	0.00	0.00	0.00	2.00	2.00	2.00	2.00	2.00	2.17	2.17	2.17	2.17
Days without corrections	in the month	31	28	31	28	28	30	31	30	29	31	30	31
Days without corrections	year-to-date	31	59	90	118	146	176	207	237	266	297	327	358
, .	,	•											
<u>2017</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
2017 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	<u>July</u>	August	<u>September</u>	<u>October</u>	<u>November</u>	December
	in the month	2	0	1	0	6	0	0	1	4	1	0	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	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	in the month in the month	2 744 0.27%	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720 0.56%	1 744 0.13%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	2 744 0.27%	0 672 0.00%	1 743 0.13%	0 720 0.00%	6 744 0.81%	0 720 0.00%	0 744 0.00%	1 744 0.13%	4 720 0.56%	1 744 0.13%	0 721 0.00%	0 744 0.00%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	2 744 0.27% 0.27%	0 672 0.00% 0.14%	1 743 0.13%	0 720 0.00% 0.10%	6 744 0.81% 0.25%	0 720 0.00% 0.21%	0 744 0.00% 0.18%	1 744 0.13%	4 720 0.56% 0.21%	1 744 0.13% 0.21%	0 721 0.00% 0.19%	0 744 0.00% 0.17%
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% <u>0.27%</u> 5	0 672 0.00% 0.14% 0	1 743 0.13% <u>0.14%</u> 1	0 720 0.00% 0.10%	6 744 0.81% <u>0.25%</u> 12	0 720 0.00% 0.21% 0	0 744 0.00% <u>0.18%</u> 0	1 744 0.13% <u>0.17%</u> 1	4 720 0.56% <u>0.21%</u> 9	1 744 0.13% <u>0.21%</u> 2	0 721 0.00% <u>0.19%</u> 0	0 744 0.00% <u>0.17%</u> 0
Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 5 8,983	0 672 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% 0.21% 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 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% 0.14% 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% 0.21% 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 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% 0.14% 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% 0.21% 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 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% 0.14% 1 9,026 0.01% 0.02%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02%	6 744 0.81% <u>0.25%</u> 12 9,004 0.13% <u>0.04%</u>	0 720 0.00% 0.21% 0 8,712 0.00% 0.03%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03%	1 744 0.13% <u>0.17%</u> 1 8,980 0.01% 0.03%	4 720 0.56% 0.21% 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% number of intervals corrected	in the month in the month year-to-date in the month in the month year-to-date in the month	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% 0.14% 1 9,026 0.01% 0.02% 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 correctionsInterval CorrectionsNumber of intervals correctedNumber of intervals% of intervals corrected% of intervals corrected% of intervals corrected% of intervals corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	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 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% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81%	0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36%	6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69%	0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25%	0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0 744 0.00%	1 744 0.13% <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% 0.17% 9,063 0.00% 0.03% 9 744 1.21%
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Hour CorrectionsNumber of hours with correctionsNumber of hours% of hours with corrections% of hours with correctionsInterval CorrectionsInterval CorrectionsNumber of intervals correctedNumber of intervals corrected% of hours reservedNumber of hours reserved% of nours reserved <td>in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month</td> <td>2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54% 0.54% 0.54% 1.50</td> <td>0 672 0.00% 0.14% 0 8,101 0.00% 0.03% 0.03% 0.03% 0.00% 0.28%</td> <td>1 743 0.13% 0.14% 1 9,026 0.01% 0.02% 6 743 0.81% 0.46% 2.00</td> <td>0 720 0.00% 0.10% 0 8,745 0.00% 0.02% 17 720 2.36% 0.94% 0.00</td> <td>6 744 0.81% 0.25% 12 9,004 0.13% 0.04% 20 744 2.69% 1.30% 2.00</td> <td>0 720 0.00% 0.21% 0 8,712 0.00% 0.03% 9 720 1.25% 1.29% 0.00</td> <td>0 744 0.00% 0.18% 0 8,968 0.00% 0.03% 0.03% 0.03% 1.10% 0.00</td> <td>1 744 0.13% 0.17% 1 8,980 0.01% 0.03% 5 744 0.67% 1.05% 0.00</td> <td>4 720 0.56% 0.21% 9 8,701 0.10% 0.04% 10 720 1.39% 1.08% 1.00</td> <td>1 744 0.13% 0.21% 2 9,006 0.02% 0.03% 4 744 0.54% 1.03% 1.00</td> <td>0 721 0.00% 0.19% 0 8,712 0.00% 0.03% 8 721 1.11% 1.04% 0.00</td> <td>0 744 0.00% 0.17% 9,063 0.00% 0.03% 9 744 1.21% 1.05% 0.00</td>	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	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 corrected% of intervals correctedMumber of hours reservedNumber of hours reservedNumber of hours reserved% of number of days to correctionAvg. number of days to correction	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month in the month in the month in the month	2 744 0.27% 0.27% 0.27% 5 8,983 0.06% 0.06% 0.06% 4 744 0.54% 0.54% 0.54% 1.50	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

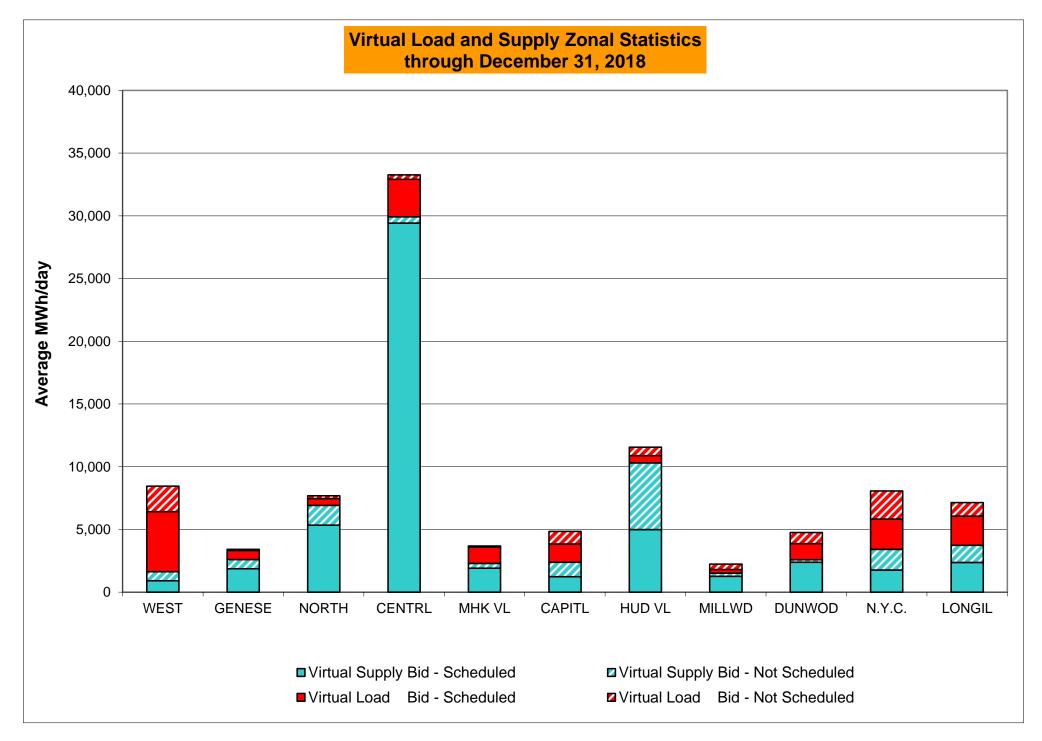
*Calendar days from reservation date; for June 2018 forward, business days from market date

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



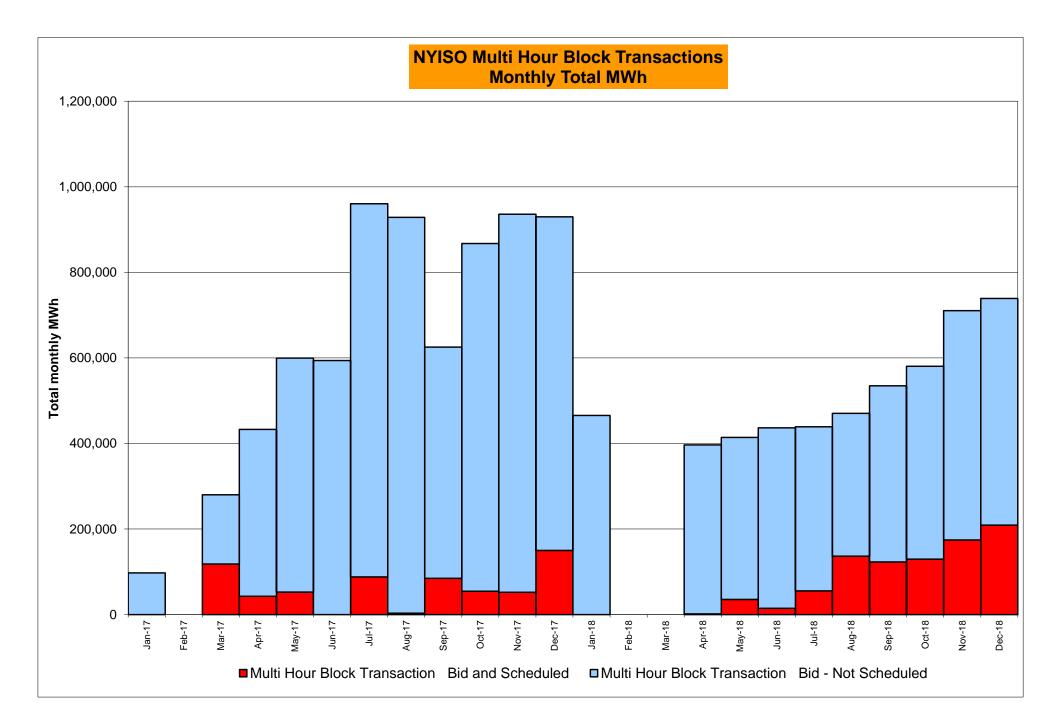
*Calendar days from reservation date; for June 2018 forward, business days from market date

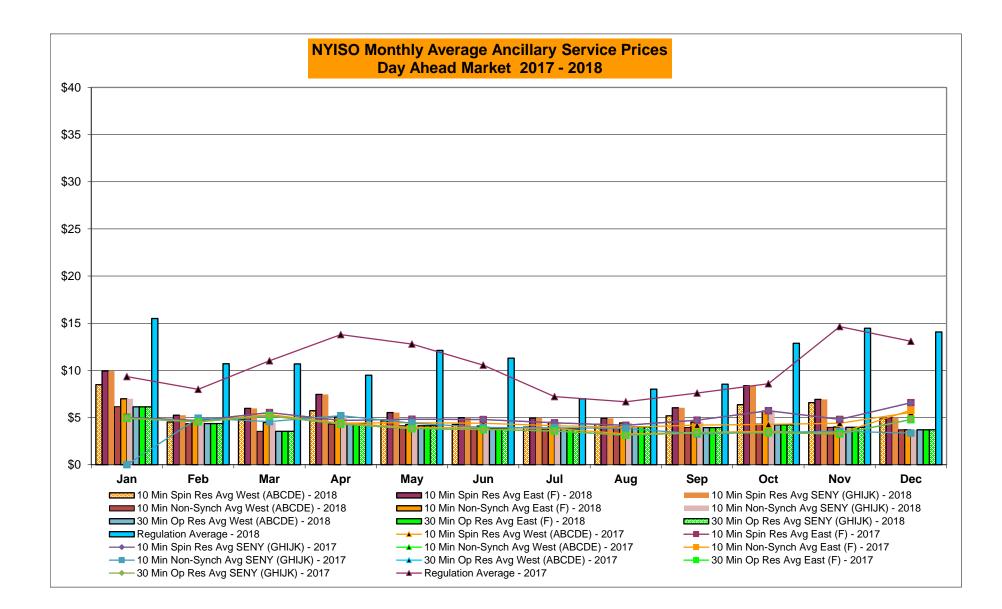


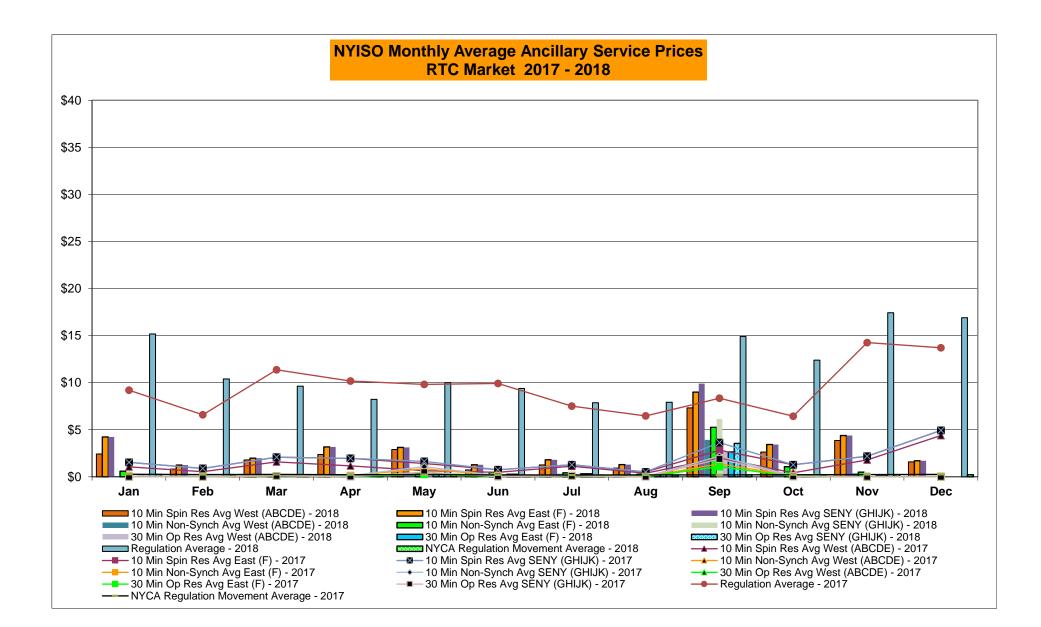


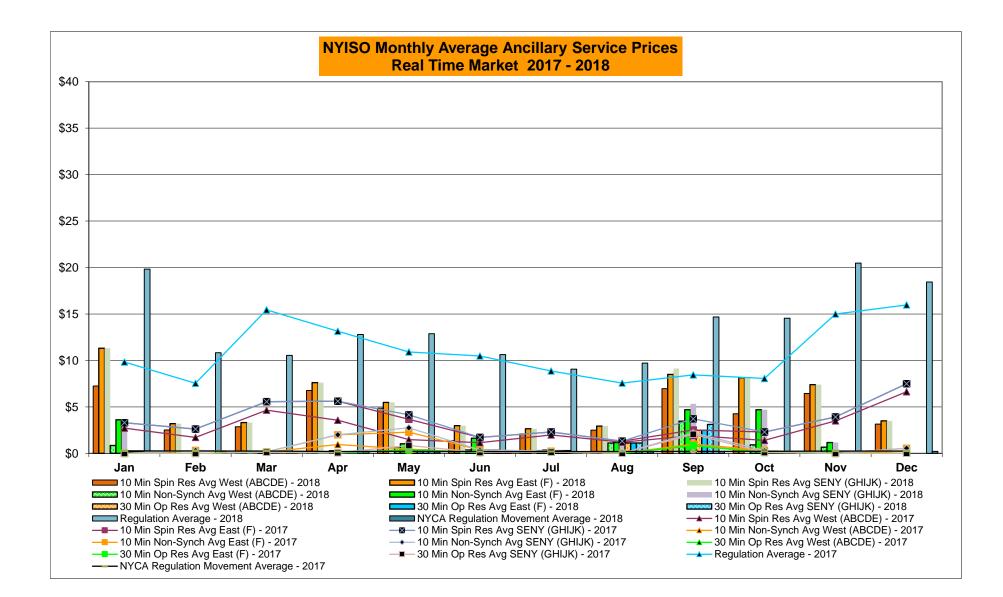
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2018

		Virtual L	oad Bid	Virtual S	upply Bid			Virtual L	.oad Bid	Virtual Su	upply Bid			Virtual L	oad Bid	Virtual Su	ipply 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
WEST	Jan-18	4,761	4,241	1,938	427	MHK VL	Jan-18		456	2,040		DUNWOD	Jan-18	1,795	1,509	2,215	620
	Feb-18	3,058	1,941	1,478	603		Feb-18		130	1,910			Feb-18	742	658	5,891	824 487
	Mar-18	7,263	2,535		659		Mar-18		139	1,896			Mar-18	1,367	755	3,530	487
	Apr-18	8,154 7,658	3,433		393 478		Apr-18		173 95	1,986 3,242			Apr-18	1,781	1,047	2,395 2,052	333 440
	May-18 Jun-18	7,008	4,266 4,102		681		May-18 Jun-18		95	3,242			May-18 Jun-18	1,933 2,261	183 258	2,052	515
	Jul-18	6,144	4,102	894	795		Jul-18		152	3,340			Jul-18	3,884	685	2,023	566
	Aug-18	7,058	3,301	1,826	733	_	Aug-18		253	3,040	293		Aug-18		1,343	2,704	997
	Sep-18	7,300	3,587	869	527		Sep-18		185	2,513			Sep-18		742	3,280	448
	Oct-18	5,715	2,202		580		Oct-18		162	1,958			Oct-18	3,682	1,342	2,108	1,157
	Nov-18	5,127	2,031	883	608	_	Nov-18		72	1,628			Nov-18	1,743	1,789	2,644	191
	Dec-18	4,786	2,029	913	716		Dec-18		80	1,917			Dec-18	1,276	888	2,381	211
GENESE	Jan-18	554	310	3,772	2,739	CAPITL	Jan-18	2,291	1,751	1,887	2,212	N.Y.C.	Jan-18	4,302	5,885	1,359	704
	Feb-18	525	172	1,723	2,671		Feb-18	1,822	269	1,331	2,799		Feb-18	5,644	4,187	1,181	1,086
	Mar-18	537	143	1,381	2,488		Mar-18	1,731	156	1,330	2,851		Mar-18	2,346	4,931	1,727	1,285
	Apr-18	587	234		1,047		Apr-18		263	2,032			Apr-18	3,190	2,460	2,212	1,376
	May-18	405	123		649	_	May-18		95	1,430			May-18	5,464	3,912	1,152	1,476
	Jun-18	389	100		563		Jun-18		112	1,818			Jun-18		2,924	2,210	1,888
	Jul-18	476	123		1,062		Jul-18		219	2,818			Jul-18	9,126	3,514	3,011	1,420
	Aug-18	535	269		1,264		Aug-18		242	3,509			Aug-18	11,778	3,421	2,802	1,494
	Sep-18	684 796	294	3,261	716		Sep-18		373	1,878			Sep-18	6,762	1,754	2,029	1,501
	Oct-18 Nov-18	796 967	241 82	2,836 2,234	1,158 824	_	Oct-18 Nov-18		1,204 1,479	1,418 1,126			Oct-18 Nov-18	4,376 4,185	1,599 2,469	1,635 1,478	1,479 1,351
	Dec-18	714	91		750	_	Dec-18		999	1,120			Dec-18	2,409	2,409	1,478	1,661
NORTH	Jan-18	274 352	282 369		3,265 2,777	HUD VL	Jan-18		1,285 740	5,029		LONGIL	Jan-18 Feb-18	3,335 2,800	3,714	1,932 3,061	1,622 2,605
	Feb-18 Mar-18	352 249	369		2,177		Feb-18 Mar-18			4,703 5,169			Mar-18		2,591 3,021	3,061	
	Apr-18	189	269		-		Apr-18		973	5,990			Apr-18		3,620	2,505	
	May-18	215	79		4,717		May-18		539	3,727	11,304		May-18		2,420	1,436	
	Jun-18	514	317	,	3,657		Jun-18		573	4,144			Jun-18		2,120	1,618	2,440
	Jul-18	428	423		2,542		Jul-18		550	3,087	5,200		Jul-18	4,610	3,179	1,278	
	Aug-18	578	340		2,650		Aug-18		476	7,039			Aug-18		3,156	3,475	
	Sep-18	815	247		4,123		Sep-18		576	6,306			Sep-18		3,205	3,104	1,556
	Oct-18	578	237		3,287		Oct-18		429	6,205	5,009		Oct-18	3,972	2,986	2,353	1,135
	Nov-18	535	204	5,292	1,611		Nov-18		913	6,184	9,480		Nov-18	3,407	3,963	2,468	885
	Dec-18	550	227	5,344	1,570		Dec-18	574	674	4,984	5,327		Dec-18	2,322	1,078	2,364	1,375
CENTRL	Jan-18	983	434		647	MILLWD	Jan-18		988	2,033		NYISO	Jan-18		20,854	59,437	20,478
	Feb-18	595	215		483		Feb-18		337	1,284			Feb-18	17,423	11,608	58,172	
	Mar-18	1,977	208		614	_	Mar-18			1,144			Mar-18		13,494	53,984	23,855
	Apr-18	1,753	334		677	_	Apr-18		526	1,031	163		Apr-18		13,330	50,864	19,613
	May-18	1,033	221	21,769	470	_	May-18		140	1,050			May-18	24,723	12,074	44,726	
	Jun-18 Jul-18	730 1,093	164 273		501 534	_	Jun-18		302 1,051	1,223 940			Jun-18 Jul-18	25,903 31,359	11,189	53,397	20,825 17,027
	Aug-18	1,093	408		566	_	Jul-18 Aug-18		1,051	940			Aug-18	31,359	14,319 14,790	54,416 60,205	17,027
	Sep-18	2,648	356		671		Sep-18		813	1,087	403		Sep-18	30,252	14,790	58,770	
	Oct-18	1,682	358		642		Oct-18		832	1,007			Oct-18	26,069	11,590	51,789	15,896
	Nov-18	2,567	332		488	-	Nov-18			1,110			Nov-18	23,537	14,121	52,134	17,030
	Dec-18	3,003	346		490	-	Dec-18			1,260			Dec-18		9,080	53,440	





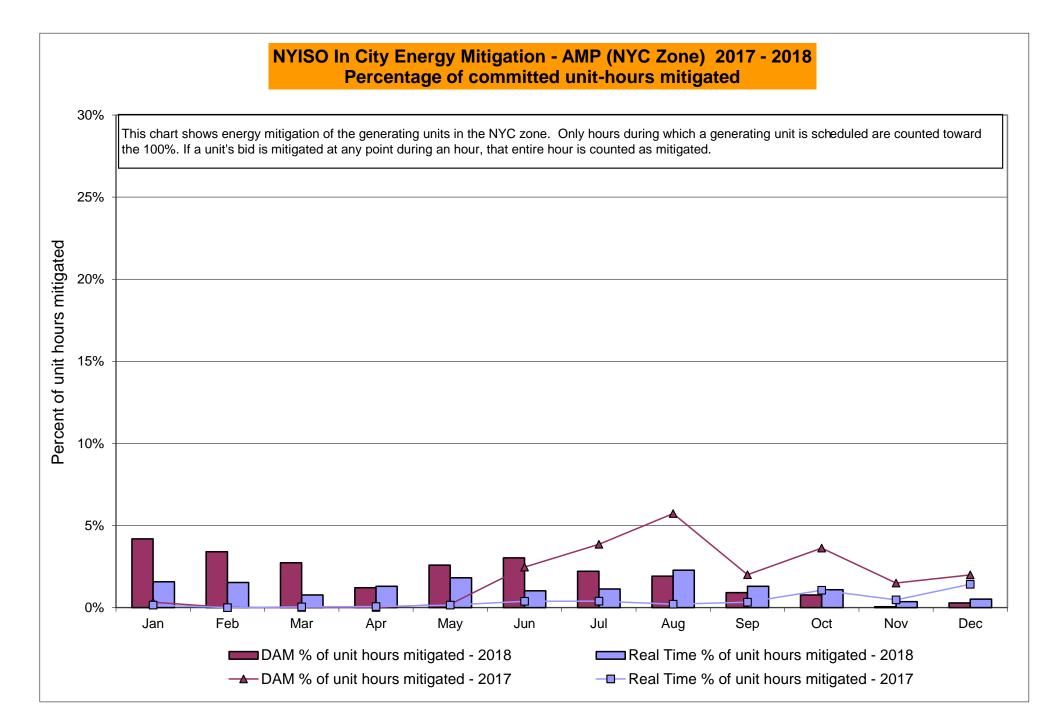


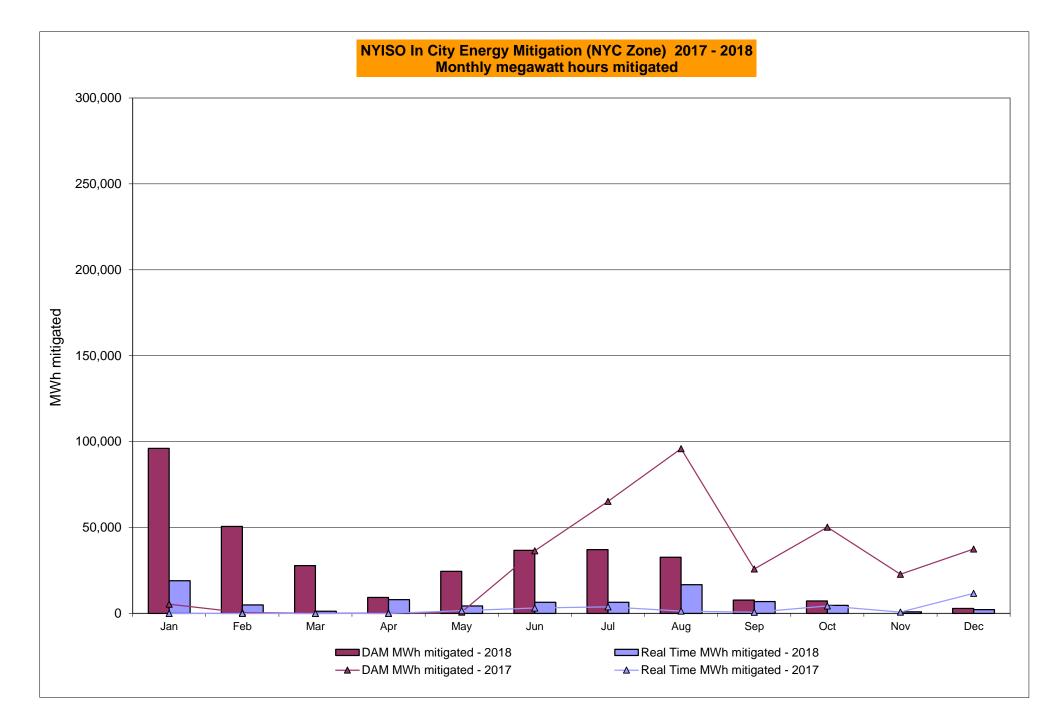


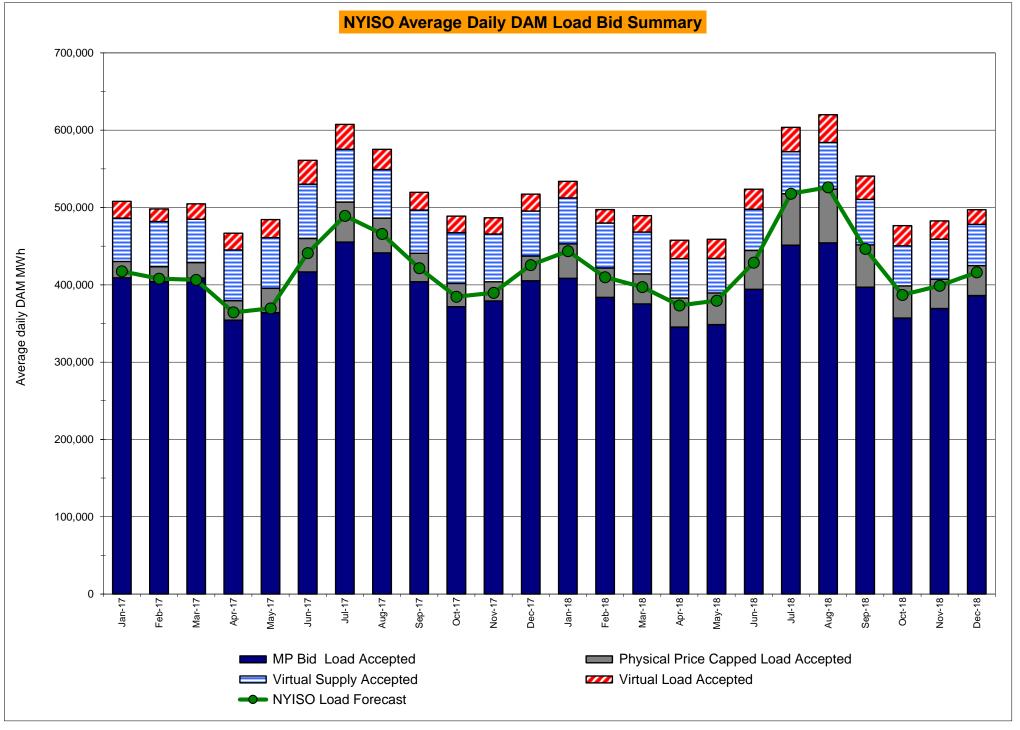
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

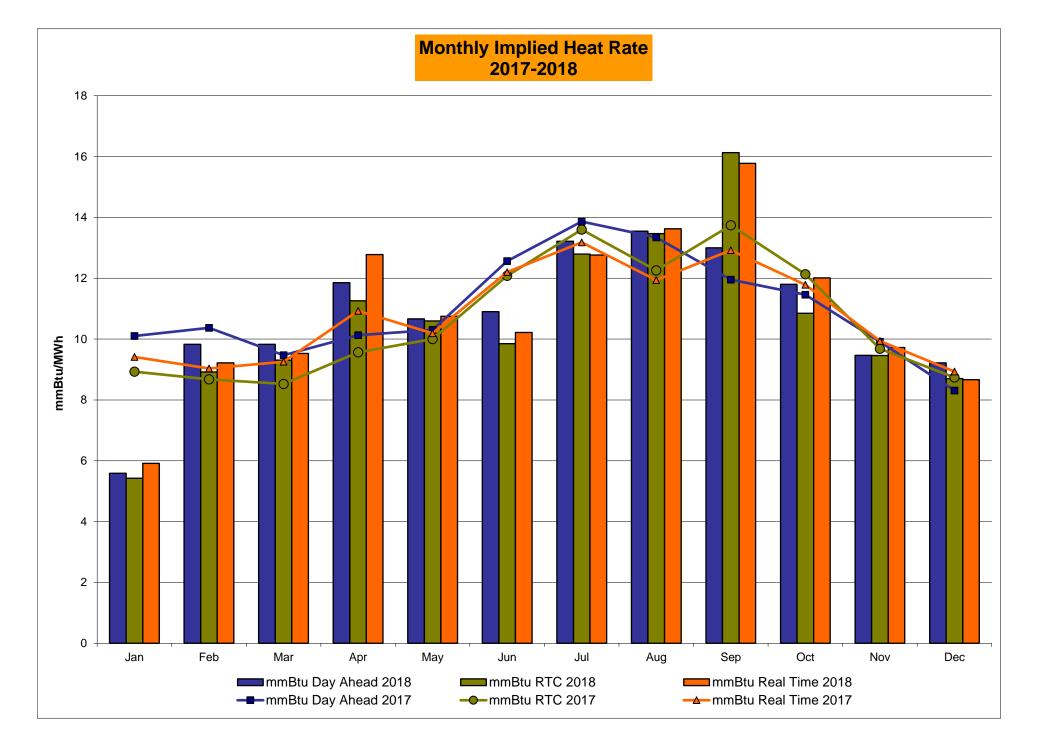
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2018	January	February	March	<u>April</u>	May	June	July
Day Ahead Market	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>		<u></u>
10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52	4.98	4.95
10 Min Spin East (F)	9.93	5.24	5.97	7.45	5.52	4.98	4.95
10 Min Spin 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
•	10.01	10.70	10.00	3.43	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	0.16	0.19
NTCA Regulation Movement	0.20	0.21	0.20	0.22	0.19	0.10	0.19
<u>Real Time Market</u>							
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
NYCA Regulation Movement	0.24	0.21	0.20	0.21	0.17	0.15	0.18
NTO/TROGULION MOVEMENT	0.24	0.21	0.20	0.21	0.17	0.10	0.10
2017	January	<u>February</u>	March	<u>April</u>	May	June	July
Day Ahead Market	<u>bandary</u>	robradiy	maron	<u>/ (p/ii</u>	<u>integ</u>	<u>o ano</u>	<u>o aiy</u>
10 Min Spin SENY (GHLIK)	5.01	5 38	5 04	6 3 1	4 93	4 62	6 4 1
10 Min Spin SENY (GHIJK) 10 Min Spin East (E)	5.01 5.01	5.38 5.38	5.04 5.04	6.31 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 East (F) 10 Min Spin West (ABCDE)	5.01 4.94	5.38 5.25	5.04 4.84	6.31 5.60	4.93 4.77	4.62 4.52	6.41 5.78
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	5.01 4.94 4.94	5.38 5.25 5.25	5.04 4.84 4.88	6.31 5.60 5.80	4.93 4.77 4.83	4.62 4.52 4.36	6.41 5.78 6.34
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	5.01 4.94 4.94 4.94	5.38 5.25 5.25 5.25	5.04 4.84 4.88 4.88	6.31 5.60 5.80 5.80	4.93 4.77 4.83 4.83	4.62 4.52 4.36 4.36	6.41 5.78 6.34 6.34
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	5.01 4.94 4.94 4.94 4.94	5.38 5.25 5.25 5.25 5.25 5.20	5.04 4.84 4.88 4.88 4.88	6.31 5.60 5.80 5.80 5.58	4.93 4.77 4.83 4.83 4.68	4.62 4.52 4.36 4.36 4.32	6.41 5.78 6.34 6.34 5.72
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	5.01 4.94 4.94 4.94 4.92 4.92	5.38 5.25 5.25 5.25 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84	6.31 5.60 5.80 5.80 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.52 4.36 4.36 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	5.01 4.94 4.94 4.94 4.92 4.92 4.92	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84	6.31 5.60 5.80 5.80 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70 5.70
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67	4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F)	5.01 4.94 4.94 4.94 4.92 4.92 4.92	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84	6.31 5.60 5.80 5.80 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70 5.70
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67	4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u>	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34	5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32 7.00	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 4.67 6.11 0.43 0.43	4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 1.81 0.95 0.14	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00	6.31 5.60 5.80 5.58 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00	5.38 5.25 5.25 5.20 0.59 0.26 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.04 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F) 30 Min West (ABCDE)	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.08 0.17 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F) 30 Min East (F) 30 Min West (ABCDE) Regulation	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 9.21	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.07 0.00 0.00 0.00 0.00 0.00 7.15	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation 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 SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement	5.01 4.94 4.94 4.92 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.08 0.17 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation 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 SENY (ABCDE) Regulation NYCA Regulation Movement Real Time Market	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.21	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93\\ 4.77\\ 4.83\\ 4.83\\ 4.68\\ 4.67\\ 4.67\\ 4.67\\ 4.67\\ 6.11\\ 0.43\\ 0.43\\ 0.23\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 5.43\\ 0.25\\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation <u>RTC Market</u> 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement <u>Real Time Market</u> 10 Min Spin SENY (GHIJK)	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 9.21 0.27 3.29	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 0.04	4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min 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)	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.21 0.27 3.29 3.29	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.11\\ 1.12\\ 1.12\end{array}$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72
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 ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exel Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (ABCDE)	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 3.29 3.29 2.71	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.71 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min 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)	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.21 0.27 3.29 3.29	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.11\\ 1.12\\ 1.12\end{array}$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72
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 ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exel Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (ABCDE)	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 3.29 3.29 2.71	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ 0.59\\ 0.59\\ 0.59\\ 0.26\\ 0.00\\$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.71 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ \end{array}$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.20 1.73 1.73 0.48 0.22	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch West (ABCDE)	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.29 3.29 3.29 3.29 2.71 0.00	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ \end{array}$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 1.73 1.73 0.48 0.22 0.22	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK)	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 3.29 3.29 3.29 3.29 3.29 3.29 0.00	$\begin{array}{c} 5.38\\ 5.25\\ 5.25\\ 5.25\\ 5.20\\ 5.20\\ 5.20\\ 5.20\\ 8.19\\ \end{array}$	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.71 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.02 0.03 1.43 1.40 1.00 0.04 0.07	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98
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 ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exel Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement Exel Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 3	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.27 3.29 3.29 2.71 0.00	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.04 0.04	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97
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 RTC Market 10 Min Spin SENY (GHIJK) 10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Real Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 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 SENY (GHIJK) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SEN	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 3.29 3.29 3.29 3.29 3.29 3.29 3.29 3.29 3.29 3.29 3.29 3.29 3.00 0.00	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 1.73 1.73 1.73 0.48 0.22 0.22 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97
10 Min Spin East (F) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation ETC Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min East (F) 30 Min West (ABCDE) Regulation NYCA Regulation Movement Exel Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) Regulation NYCA Regulation Movement Exel Time Market 10 Min Spin SENY (GHIJK) 10 Min Spin West (ABCDE) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch East (F) 10 Min Non Synch West (ABCDE) 30 Min SENY (GHIJK) 30 Min SENY (GHIJK) 3	5.01 4.94 4.94 4.94 4.92 4.92 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.27 3.29 3.29 2.71 0.00	5.38 5.25 5.25 5.20 5.20 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00	5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.71 0.08 0.17 0.00 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00	$\begin{array}{c} 6.31\\ 5.60\\ 5.80\\ 5.80\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 5.58\\ 7.93\\ \end{array}$	$\begin{array}{c} 4.93 \\ 4.77 \\ 4.83 \\ 4.83 \\ 4.68 \\ 4.67 \\ 4.67 \\ 4.67 \\ 6.11 \\ \end{array}$	4.62 4.52 4.36 4.32 4.32 4.32 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.04 0.04	6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97

<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
4.91	6.04	8.37	6.93	4.99
4.91	6.04	8.37	6.93	4.99
4.30	5.18	6.36	6.57	4.86
4.43	4.51	5.69	4.00	3.71
4.43	4.51	5.69	4.00	3.71
4.03	3.95	4.31	3.97	3.70
4.02	3.94	4.22	3.97	3.70
4.02	3.94	4.22	3.97	3.70
4.02	3.94	4.22	3.97	3.70
8.00	8.54	12.88	14.47	14.07
1.29	9.90	3.43	4.39	1.71
1.29	9.00	3.43	4.39	1.71
0.93 0.27	7.33 6.14	2.63 1.07	3.85 0.50	1.58 0.00
0.27	5.25	1.07	0.50	0.00
0.27	3.92	0.38	0.38	0.00
0.25	3.55	0.11	0.09	0.00
0.25	2.65	0.11	0.09	0.00
0.25	2.65	0.11	0.09	0.00
7.92	14.90	12.40	17.43	16.90
0.19	0.20	0.21	0.22	0.22
2.93	9.13	8.14	7.39	3.49
2.93	8.50	8.14	7.39	3.49
2.50	6.96	4.26	6.45	3.15
1.16	5.33	4.70	1.16	0.00
1.16	4.70	4.70	1.16	0.00
1.12	3.47	0.92	0.67	0.00
1.12 1.12	3.11 2.48	0.06 0.06	0.10 0.10	0.00 0.00
1.12	2.48	0.06	0.10	0.00
9.71	14.67	14.54	20.48	18.44
0.18	0.20	0.21	0.22	0.21
<u>August</u>	<u>September</u>	October	November	December
<u>August</u> 7.12	<u>September</u> 5.57	<u>October</u> 5.37	<u>November</u> 4.83	<u>December</u> 4.89
-				
7.12 7.12 6.20	5.57 5.57 5.14	5.37 5.37 4.89	4.83 4.83 4.50	4.89 4.89 4.73
7.12 7.12 6.20 7.07	5.57 5.57 5.14 5.52	5.37 5.37 4.89 5.09	4.83 4.83 4.50 4.43	4.89 4.89 4.73 4.49
7.12 7.12 6.20 7.07 7.07	5.57 5.57 5.14 5.52 5.52	5.37 5.37 4.89 5.09 5.09	4.83 4.83 4.50 4.43 4.43	4.89 4.89 4.73 4.49 4.49
7.12 7.12 6.20 7.07 7.07 6.15	5.57 5.57 5.14 5.52 5.52 5.10	5.37 5.37 4.89 5.09 5.09 4.82	4.83 4.83 4.50 4.43 4.43 4.39	4.89 4.89 4.73 4.49 4.49 4.49
7.12 7.12 6.20 7.07 7.07 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 7.77 1.05	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43 13.80 1.92
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 7.77 1.05 1.05	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 7.77 1.05 1.05 0.82	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.29 0.29 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00	4.89 4.89 4.73 4.49 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.30 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.29 0.09 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00	$\begin{array}{c} 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.09 0.09	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00	$\begin{array}{c} 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.99 0.29 0.09 0.09 0.09 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 7.77 1.05 1.05 1.05 0.82 0.00 0.00 0.00 0.00	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.21 0.16 0.15 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.09 0.08 0.08 0.08	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 0.15	5.37 5.37 4.89 5.09 5.09 4.82 6.57 0.99 0.29 0.09 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.21 0.16 0.15 0.15	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.09 0.08 0.08 0.08	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\$	$\begin{array}{c} 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.09 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 0.08	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.20 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 6.57 0.99 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.26	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.24\end{array}$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04	$5.57 \\ 5.57 \\ 5.14 \\ 5.52 \\ 5.52 \\ 5.10 \\ 5.10 \\ 5.10 \\ 5.10 \\ 5.10 \\ 7.00 \\ 0.61 \\ 0.61 \\ 0.61 \\ 0.30 \\ 0.21 \\ 0.21 \\ 0.21 \\ 0.21 \\ 0.15 \\ 0.15 \\ 5.52 \\ 0.24 \\ 1.59 \\ 0.24 \\ 0.21 \\ $	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.99 0.29 0.09 0.09 0.09 0.09 0.08 0.126 0.196 0.1	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77 1.05 1.05 0.82 0.00 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70	$\begin{array}{c} 5.57\\ 5.57\\ 5.54\\ 5.52\\ 5.52\\ 5.52\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 7.00\\ \end{array}$	5.37 5.37 4.89 5.09 5.09 4.82 6.99 0.09 0.09 0.08 0.08 0.08 0.08 0.26 1.96 1.96 1.96 1.16 0.18	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34	$\begin{array}{c} 5.57\\ 5.57\\ 5.54\\ 5.52\\ 5.52\\ 5.52\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 7.00\\ \end{array}$	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.99 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.109 0.08 0.196 0.196 0.196 0.196 0.18 0.18	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 6.15 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56	$\begin{array}{c} 5.57\\ 5.57\\ 5.54\\ 5.52\\ 5.52\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 7.00\\ \end{array}$	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.99 0.99 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.11	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.24\\ 2.69\\ 2.29\\ 0.00\\$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48	$\begin{array}{c} 5.57\\ 5.57\\ 5.14\\ 5.52\\ 5.52\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 7.00\\ \end{array}$	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.99 0.99 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.109 0.08 0.09 0.19 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.010 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.011 0.11	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.24\\ \hline\end{array}$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12	$\begin{array}{c} 5.57\\ 5.57\\ 5.54\\ 5.52\\ 5.52\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 7.00\\ \end{array}$	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.99 0.99 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.109 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.11 0.11 0.11	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.24\\ \end{array}$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12 3.12	$\begin{array}{c} 5.57\\ 5.57\\ 5.54\\ 5.52\\ 5.52\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 7.00\\ \end{array}$	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.109 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.11 0.11 0.11 0.11	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.24\\ \end{array}$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$
7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 6.15 8.61 7.26 6.88 4.80 6.06 5.67 3.80 3.65 3.27 3.27 10.25 0.24 8.04 7.68 4.72 6.70 6.34 3.56 3.48 3.12	$\begin{array}{c} 5.57\\ 5.57\\ 5.54\\ 5.52\\ 5.52\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 5.10\\ 7.00\\ \end{array}\\ \begin{array}{c} 0.61\\ 0.61\\ 0.30\\ 0.21\\ 0.21\\ 0.21\\ 0.15\\ 5.52\\ 0.24\\ \end{array}$	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.99 0.99 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.109 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.11 0.11 0.11	$\begin{array}{c} 4.83\\ 4.83\\ 4.83\\ 4.50\\ 4.43\\ 4.43\\ 4.39\\ 4.39\\ 4.39\\ 4.39\\ 7.77\\ 1.05\\ 1.05\\ 1.05\\ 0.82\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.24\\ \end{array}$	$\begin{array}{c} 4.89\\ 4.89\\ 4.89\\ 4.73\\ 4.49\\ 4.49\\ 4.43\\ 4.43\\ 4.43\\ 4.43\\ 13.80\\ \end{array}$

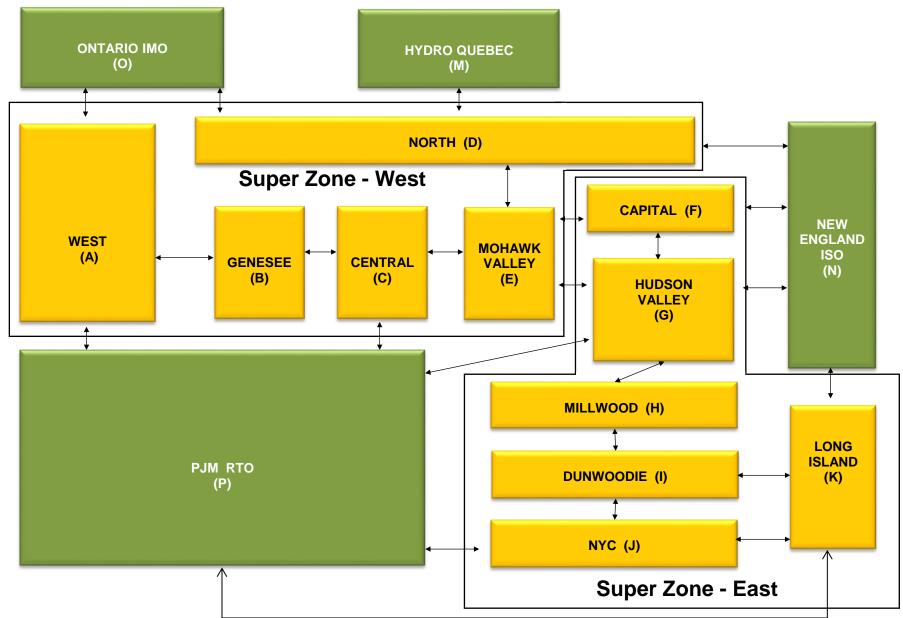








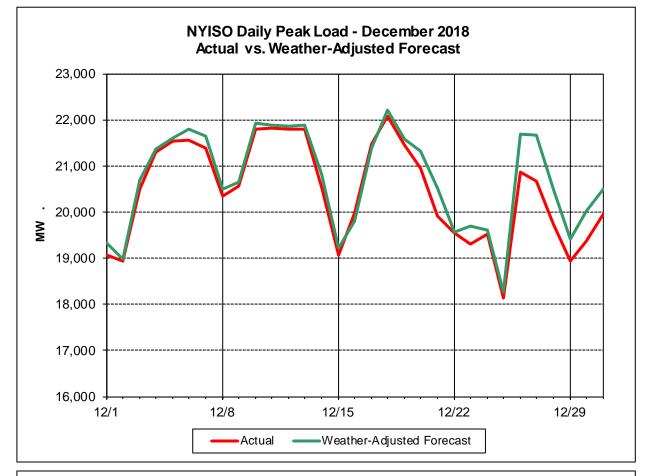
NYISO LBMP ZONES

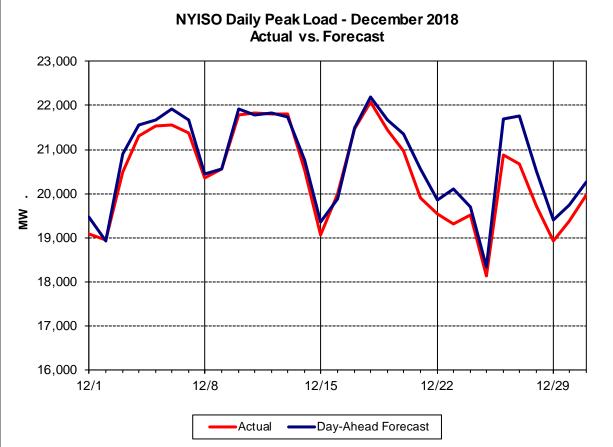


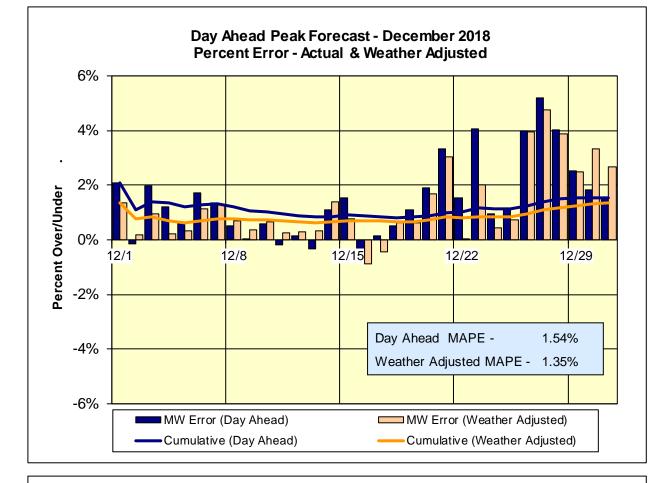
Market Mitigation and Analysis Prepared: 1/9/2019 9:38 AM

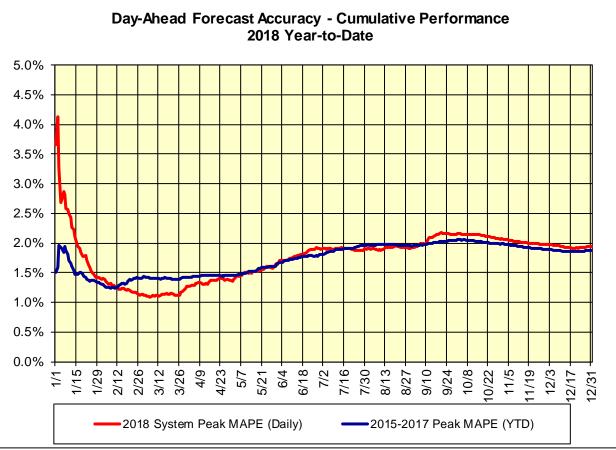
Billing Codes for Chart C

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









Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – December 2018									
Filing Date	Filing Summary	Docket	Order Date	Order Summary					
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	12/20/2018	Order denied the request for tariff waiver, granted in part the complaint and established a paper hearing to supplement the record regarding the appropriate remedy to the metering requirements issue					
10/17/2018	NYISO filing on behalf of Niagara Mohawk Power Corporation re: revisions to depreciation rates in Attachment H of the OATT	ER19-132-000	12/04/2018	Order accepted revisions effective 04/01/2018, as requested subject to a compliance filing					
10/18/2018	NYISO 205 filing re: revisions to OATT Attachment L Table 1A concerning existing long term transmission service agreements	ER19-138-000	12/04/2018	Order accepted revisions effective 12/18/2018, as requested					
10/18/2018	NYISO 205 filing re: reporting of historic congestion data	ER19-139-000	12/13/2018	Order accepted revisions effective 12/18/2018, as requested					
11/01/2018	NYISO filing on behalf of Niagara Mohawk Power Corporation re: cost reimbursement agreement (SA 2437) between Niagara Mohawk and Mid-Atlantic Interstate Transmission, LLC	ER19-253-000	12/04/2018	Order accepted agreement effective 10/02/2018, as requested					
11/09/2018	NYISO 205 filing re: unsecured credit scoring model revisions	ER19-315-000	12/31/2018	Order accepted revisions effective 01/09/2019, as requested					
12/03/2018	NYISO compliance filing re: Order No. 841 energy storage resources	ER19-467-000							
12/04/2018	NYISO compliance filing re: effective date for Order 831 offer cap tariff revisions	ER17-1561-002							
12/07/2018	NYISO filing re: letter informing FERC of its successful filing of Form 3-Q	RM08-5-000							
12/07/2018	NYISO confidential filing to the NYPSC re: 5-year capital plan for the period 2019-2023	PSC Case No. 12-E-0168							
12/11/2018	NYISO 205 filing re: OATT Attachment Y revisions to the public policy transmission planning process and the non- incumbent transmission owner operating agreement	ER19-528-000							
12/14/2018	NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 11/30/2018	PSC Matter No. 10-02007							

12/14/2018	NYISO informational filing re: annual installed capacity report on the NYISO's capacity market, possible withholding, new generation projects and net revenue analysis	ER01-3001-000 ER03-647-000	
12/17/2018	NYISO compliance filing re: modified effective date for its FERC Order No. 831 tariff revisions and a request for limited waiver of certain tariff amendments until software issues can be corrected in early 2019	ER17-1561-003	
12/17/2018	NYISO filing on behalf of Central Hudson re: amendment to the ISO OATT to reflect Central Hudson's transmission revenue requirement adjusted in response to the Commission's deficiency letter	ER18-1598-001 EL18-77-000	
12/18/2018	NYISO 205 filing re: small generator interconnection agreement (SA 2436) among the NYISO, LIPA and Riverhead Solar Farm, LLC	ER19-589-000	
12/20/2018	NYISO confidential filing to the NYPSC re: response to data request regarding load shed procedures	PSC Matter No. 10-02007	
12/20/2018	NYISO compliance filing on behalf of Niagara Mohawk Power Corporation ("Niagara Mohawk") re: updates to the depreciation rates set forth in Niagara Mohawk's wholesale transmission service charge formula rate	ER19-132-001	