

# **Monthly Report**

**January 2018** 



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## Operations Performance Metrics Monthly Report









### January 2018 Report

## Operations & Reliability Department New York Independent System Operator



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#### **January 2018 Operations Performance Highlights**

- Peak load of 25,081 MW occurred on 01/05/2018 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
- 9.4 hours of NERC TLR level 3 curtailment
- The early January cold snap was characterized by many days having the price of gas
  exceeding oil which drove up wholesale market prices and contributed to higher local
  reliability costs for the month.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$6.60	\$6.60
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.64	\$0.64
NY Savings from NE-NY Coordinated Transaction Scheduling	(\$0.40)	(\$0.40)
Total NY Savings	\$6.84	\$6.84
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.25	\$0.25
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.12	\$0.12
Total Regional Savings	\$0.37	\$0.37

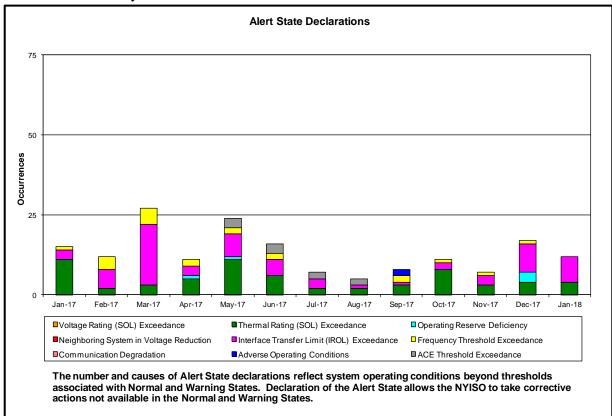
- Statewide uplift cost monthly average was (\$1.52)/MWh
- The following table identifies the Monthly ICAP Spot Market prices and the price delta.

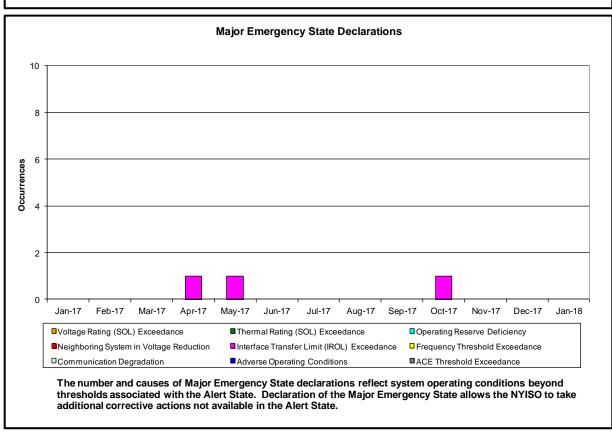
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
February 2018 Spot Price	\$0.20	\$3.33	\$3.33	\$0.71
January 2018 Spot Price	\$0.44	\$3.19	\$3.19	\$0.70
Delta	(\$0.24)	\$0.14	\$0.14	\$0.01

- NYC Price increase by \$0.14 due to increases in unoffered capacity
- GHIJ Price increase by \$0.14 due to increases in unoffered capacity
- NYCA Price decrease by \$0.24 due to decreases in unsold capacity and decreases in imports

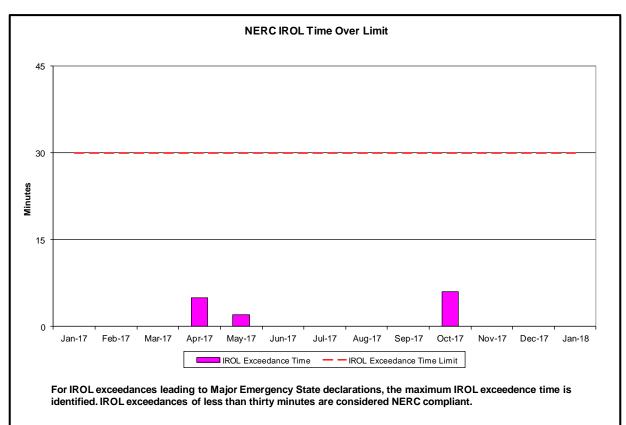


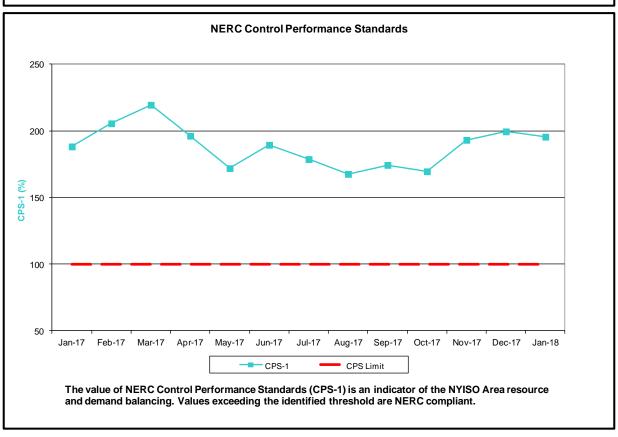
#### • Reliability Performance Metrics



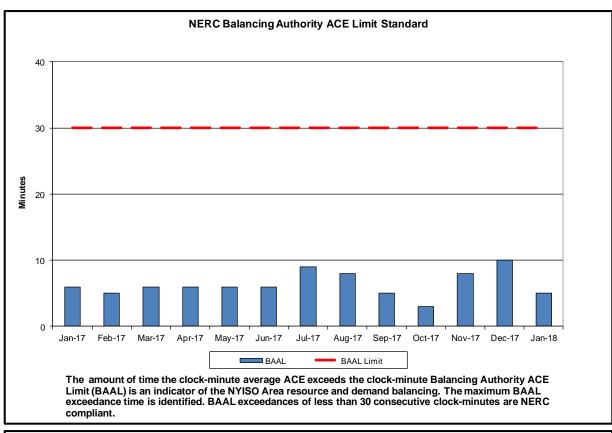


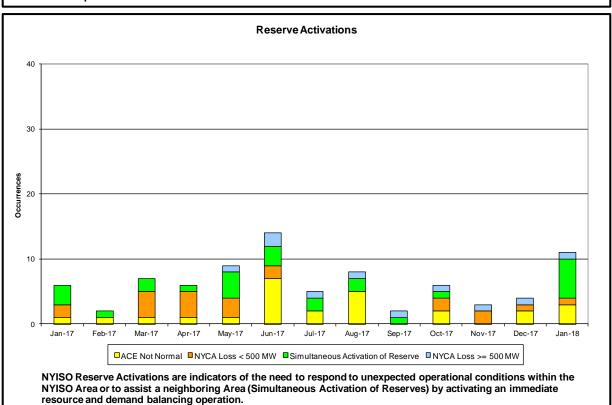








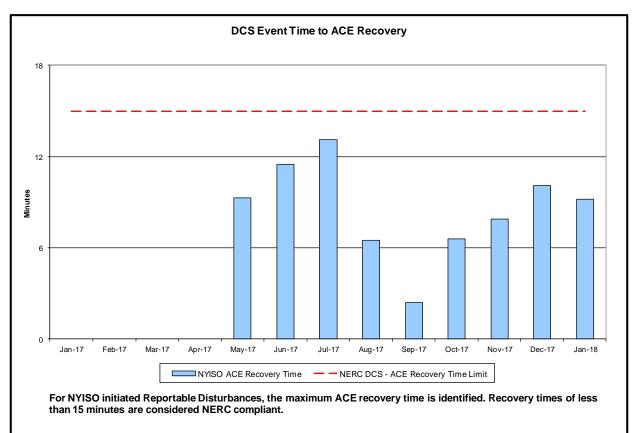


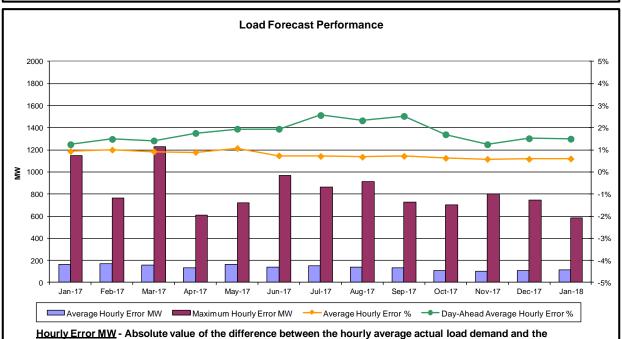




average hour ahead forecast load demand.

load demand.

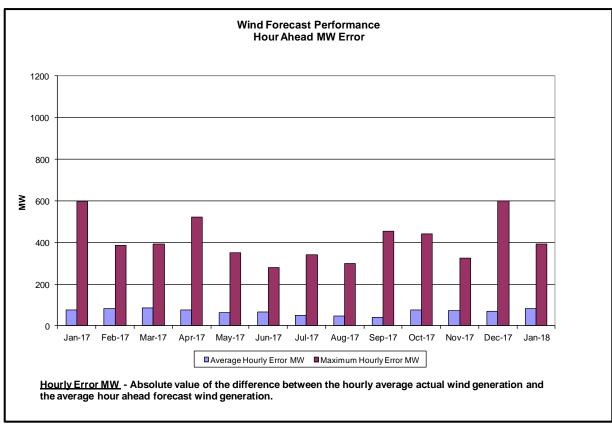


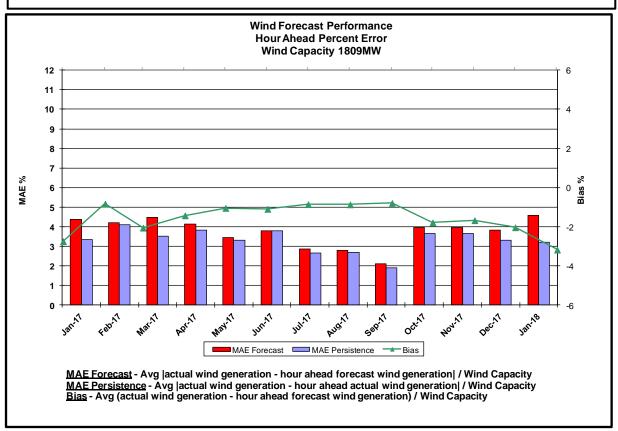


Average Hourly Error % - Average value of the ratio of hourly average error magnitude to hourly average actual

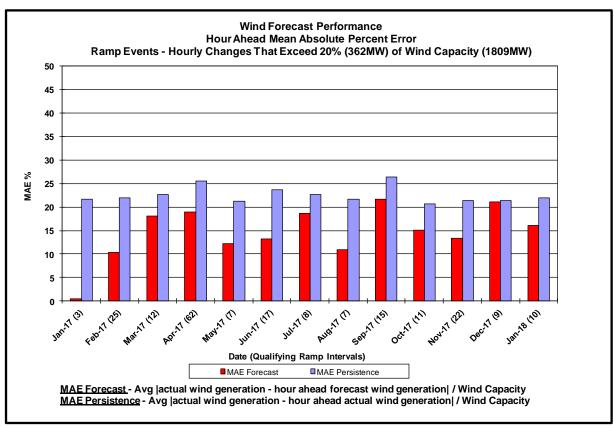
<u>Day-Ahead Average Hourly Error %</u> - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

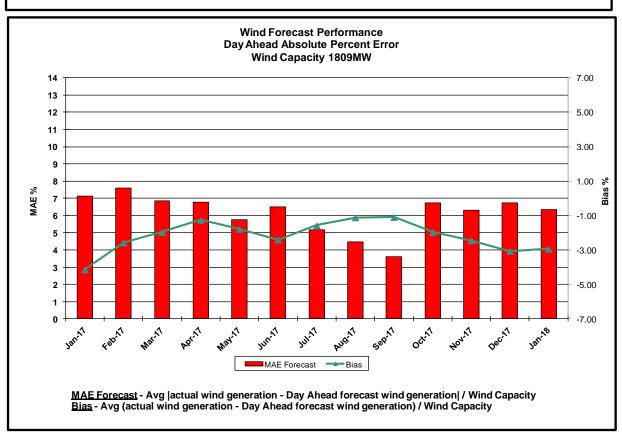




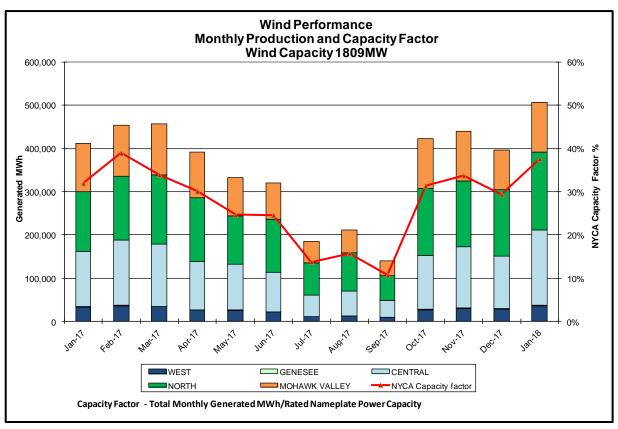


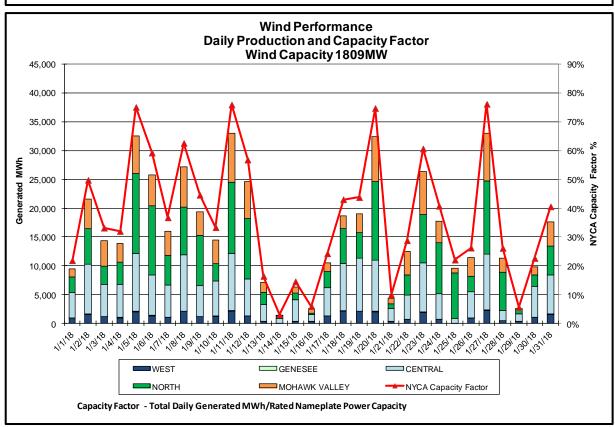




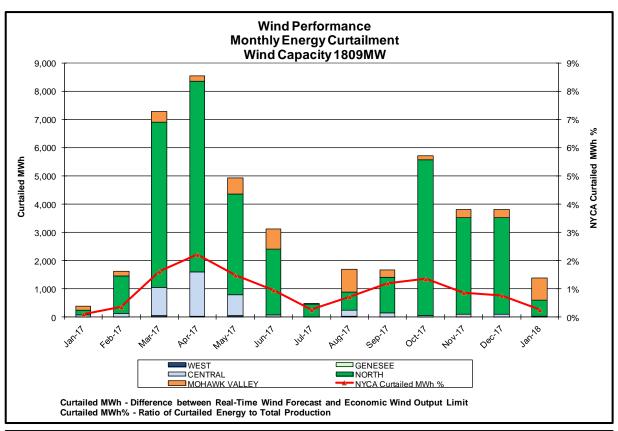


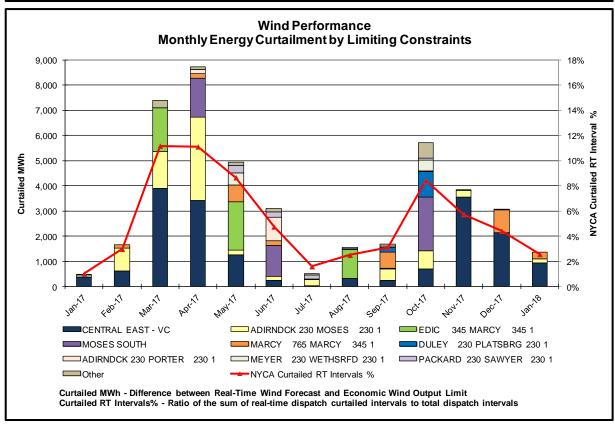




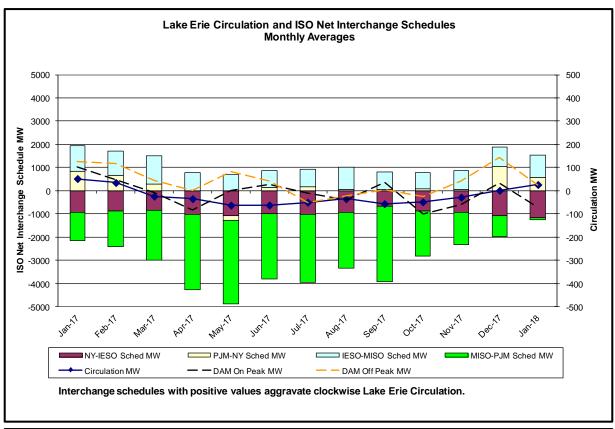


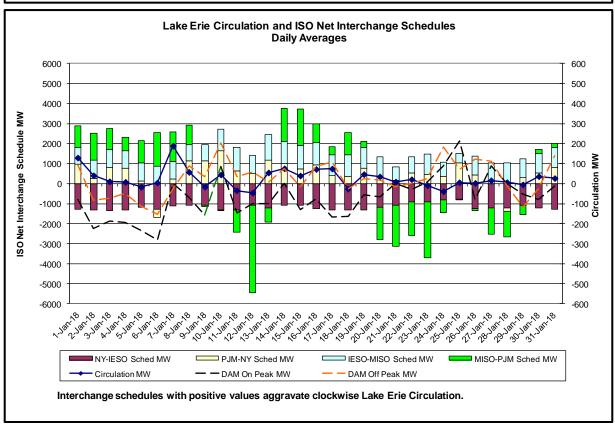






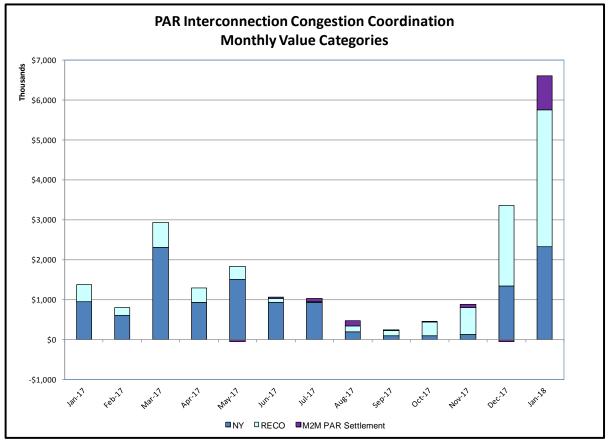


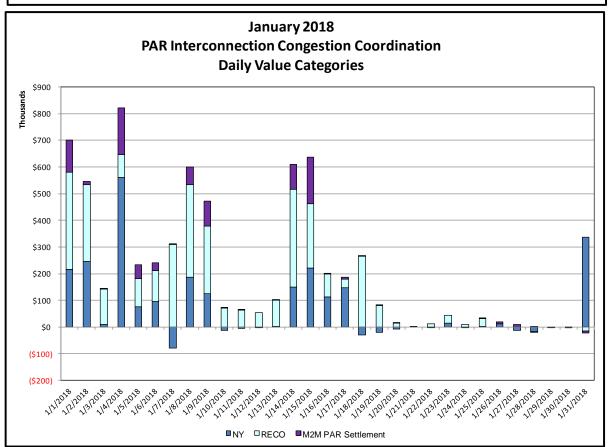






#### **Broader Regional Market Performance Metrics**







#### **PAR Interconnection Congestion Coordination**

<u>Category</u> <u>Description</u>

NY Represents the value NY realizes from Market-to-Market PAR Coordination when

experiencing congestion. This is the estimated savings to NY for additional deliveries into NY

RECO Represents the value of PJM's obligation to deliver 80% of service to RECO load over

Ramapo 5018. This is the estimated reduction in NYCA congestion due to the PJM delivery

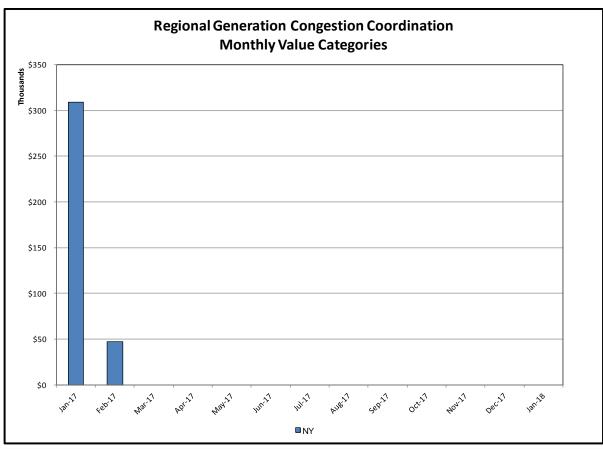
of RECO over Ramapo 5018.

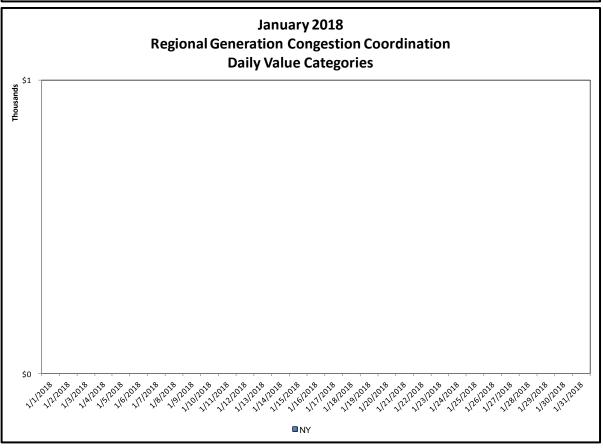
M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017

this value was included in the NY and RECO categories. The positive sign convention

indicates settlement to NY while the negative indicates settlement to PJM.









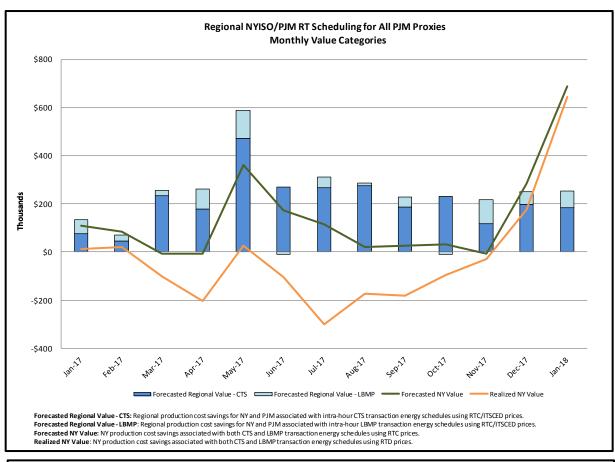
#### **Regional Generation Congestion Coordination**

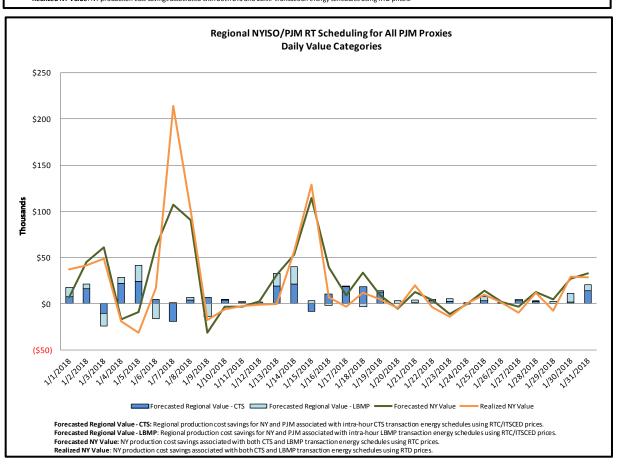
<u>Category</u> NY

#### **Description**

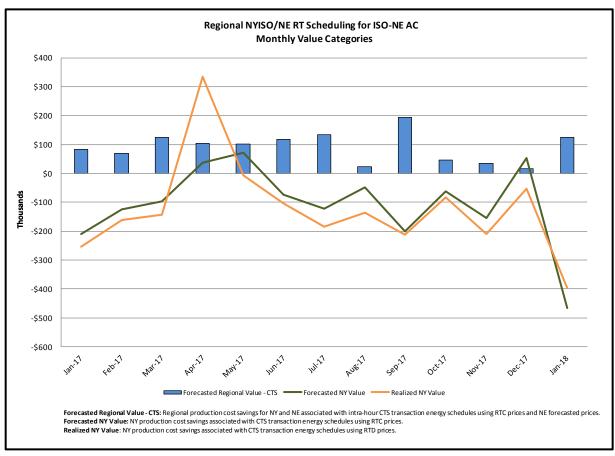
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization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

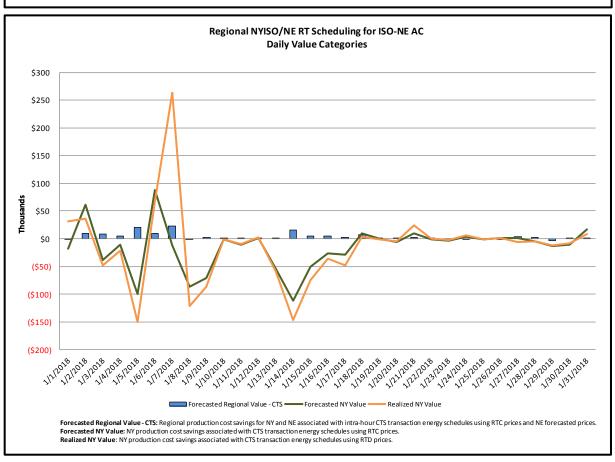






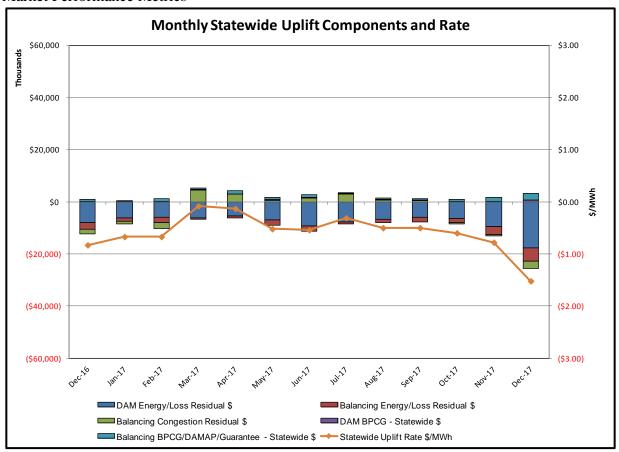




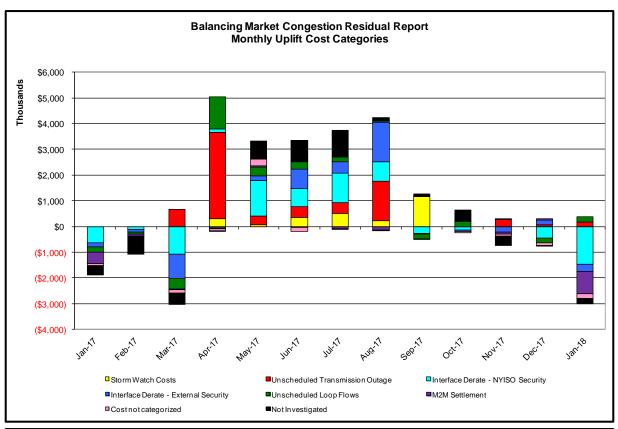


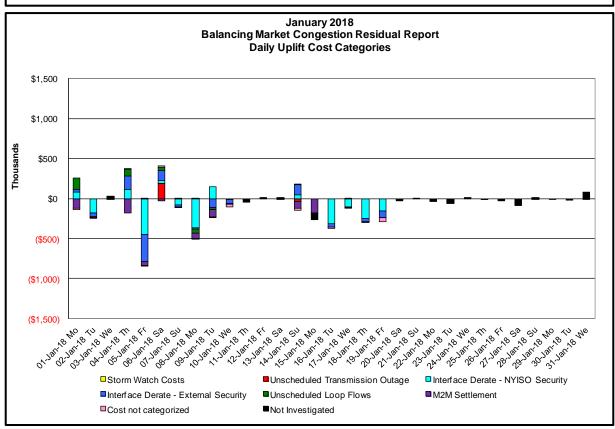


#### Market Performance Metrics







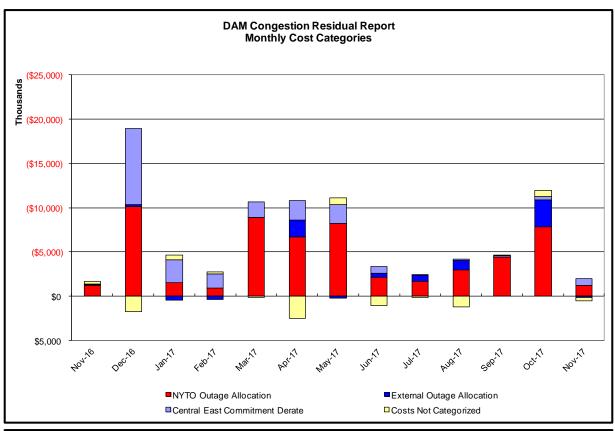


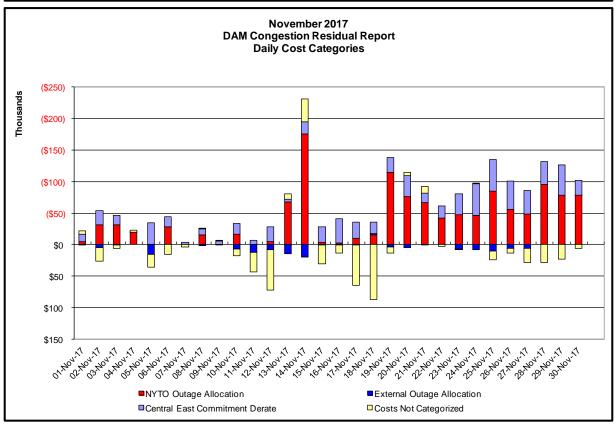


Event	Description	February Dates
	Forced Outage Gowanus-Greenwood 138kV (#42231)	6
	Forced Outage Barrett-Freeport 138kV (#459)	8
	Early return to service of Farragut-Marion 345kV (#C3403) and Farragut-Hudson 345kV (#B3402)	14
	NYCA DNI Ramp Limit	1,2,7-10,14,16,19
	Uprate Central East	1,2,5,7-10,16-19
	Derate Central East	1,4,6-9,17
	Uprate Motthaven-Dunwoodie (#71) I/o Uprate Motthaven-Dunwoodie (#72)	2,5
	Uprate Motthaven-Dunwoodie (#72) I/o Uprate Motthaven-Dunwoodie (#71)	2,5
	Uprate Motthaven-Dunwoodie (#71) for \$SCB W49TH 2 W/ 6 O/S	7
	Uprate East 179th Street-Hellgate West 138kV (#15055)	10,14,16,17,19
	Derate Dunwoodie-Shore Rd 345kV (#Y50)	17
	Uprate Dunwoodie-Shore Rd 345kV (#Y50)	18
	Uprate Dunwoodie-Shore Rd 345kV (#Y50) SCB:SPBK(RNS2):Y49&M29&Y49_ST	18
	NE_AC DNI Ramp Limit	1,2,4-9,14,16,17
	HQ_CHAT-NY Scheduling Limit	2,4,6,7,14,16,18
	PJM-NY Scheduling Limit	2
	HQ_CEDARS-NY Scheduling Limit	4-7,17,18
	PJM_AC DNI Ramp Limit	4,5,7,8,14,16,18
	IESO_AC-NY Scheduling Limit	5
	NE_AC-NY Scheduling Limit	5,7,9,10,19
	IESO_AC Active DNI Limit	8
	HQ_CHAT-NY DNI Ramp Limit	14
	NE_NNC1382-NY Scheduling Limit	19
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East	1,4-10,14,17
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Packard-Sawyer	17

Real-Time Balan	cing Market Con	gestion Residual (Uplift Cost) Cate	egories
			<del></del>
<u>Category</u>	Cost Assignment		Event Examples
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Lake Erie Loop Flows exceeding +/- 125 MW
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates	
Monthly Balancing Market Congestion	on Report Assumpti	ons/Notes	
investigated.	settlement of \$100K/H	R, shortfall of \$200K/Day or more, or surplu	s of \$100K/Day or more are
3) Uplift costs associated with multiple e	vent types are apport	loned equally by hour	



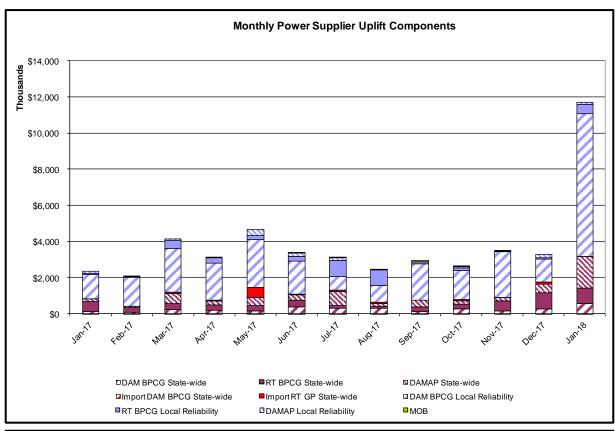


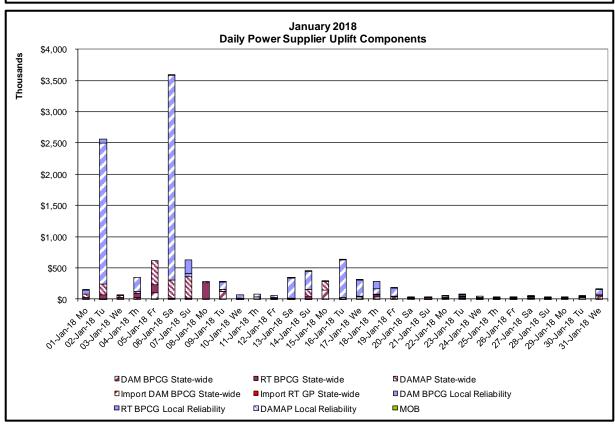




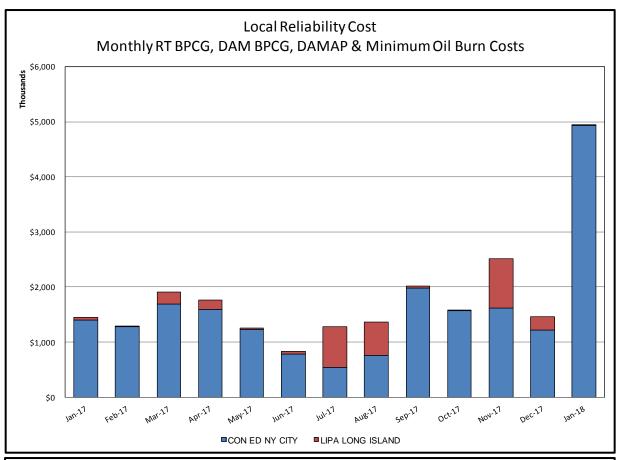
<u>Day</u>	-Ahead Market Co	ngestion Residual Categories	
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO		Event Examples  DAM scheduled outage for equipment modeled inservice for the TCC Auction.
External Outage Allocation	All TO by Monthly Allocation Factor	Direct allocation 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.	

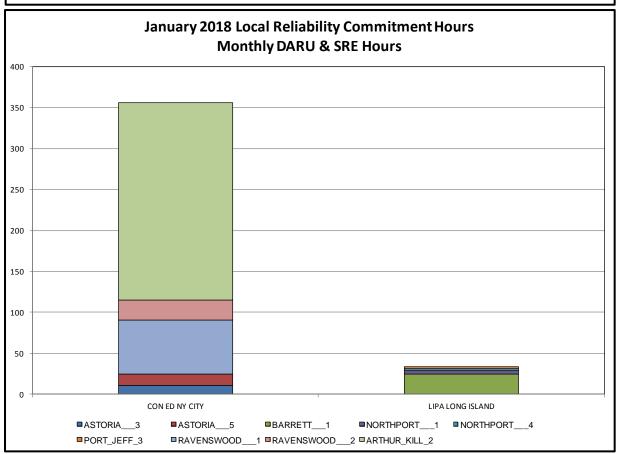




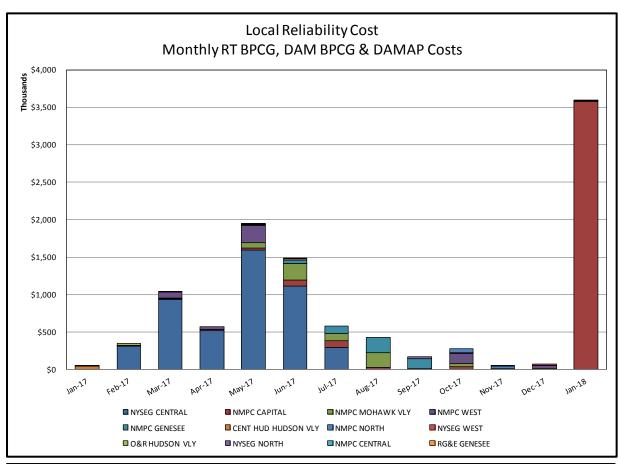


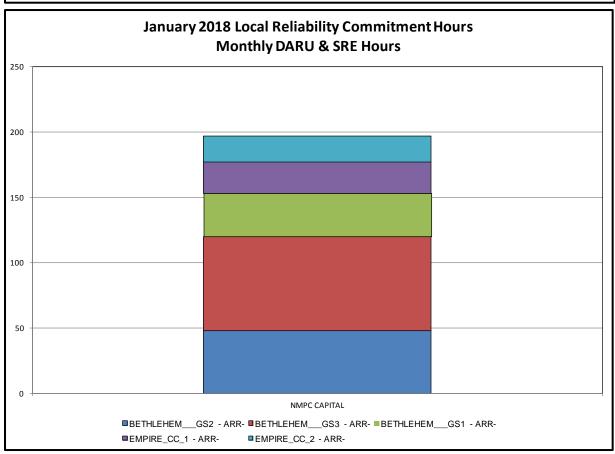




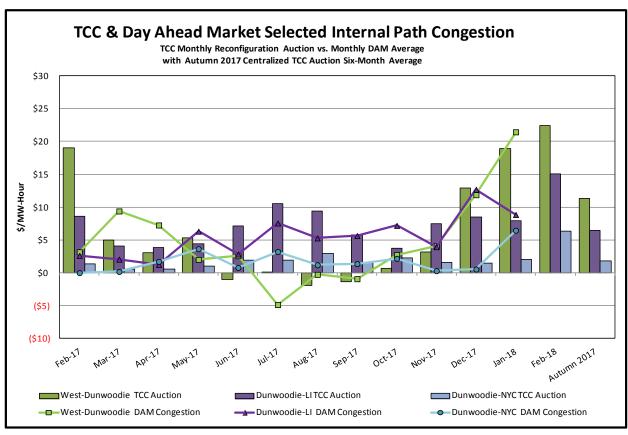


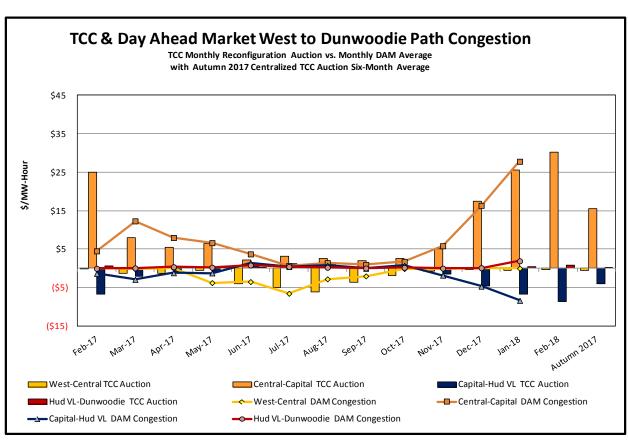




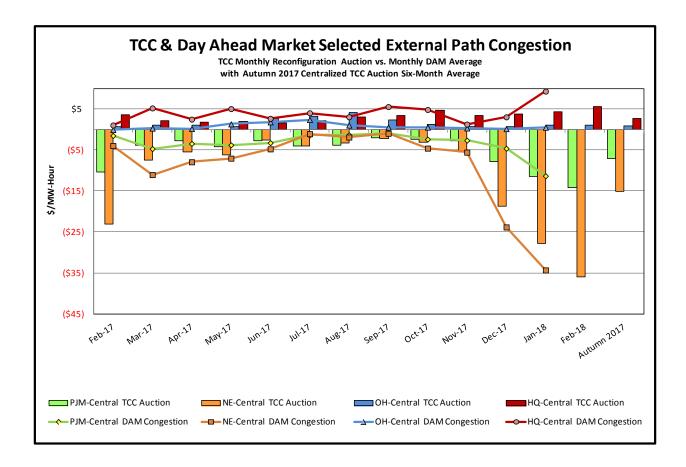




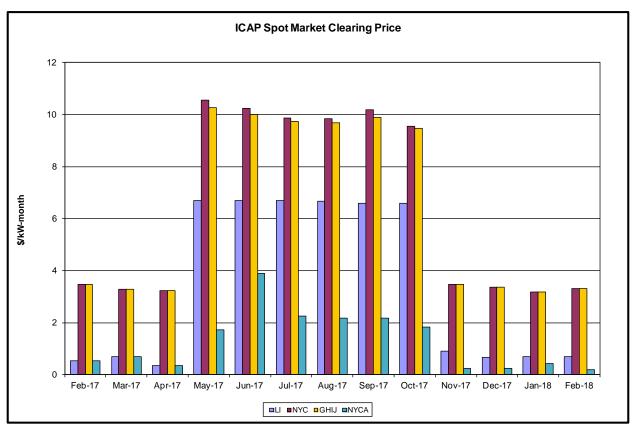


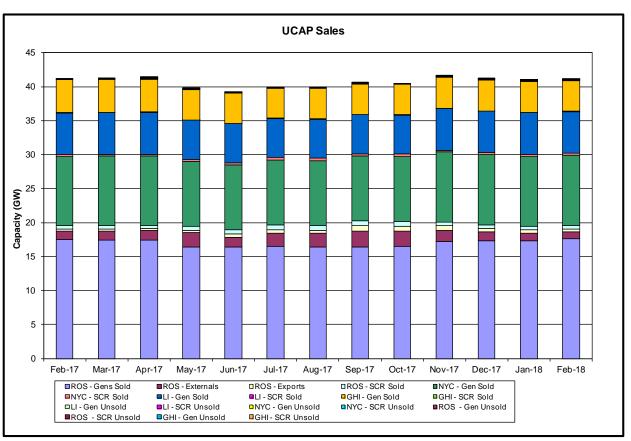








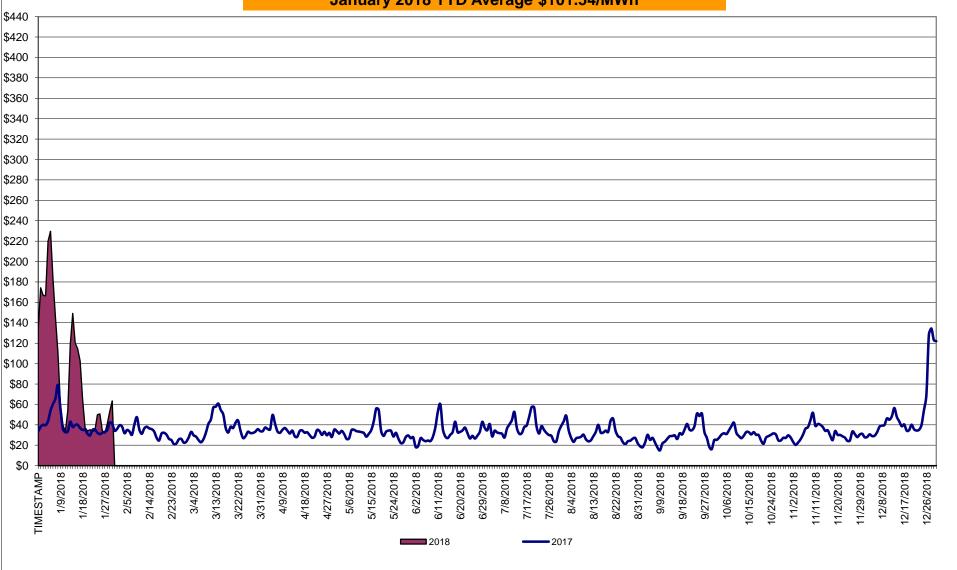




## Market Performance Highlights January 2018

- LBMP for January is \$99.55/MWh; higher than \$52.63/MWh in December 2017 and higher than \$40.07/MWh in January 2017.
  - Day Ahead and Real Time Load Weighted LBMPs are higher compared to December.
- January 2018 average year-to-date monthly cost of \$101.54/MWh is a 142% increase from \$41.96/MWh in January 2017.
- Average daily sendout is 463 GWh/day in January; higher than 444 GWh/day in December 2017 and 431 GWh/day in January 2017.
- Natural gas and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$17.94/MMBtu, up from \$7.59/MMBtu in December.
  - Natural gas prices for the month peaked at \$140.06/MMBtu on January 4, 2018
  - On January 12, 2018 FERC granted a waiver request to enable the NYISO to consider incremental energy and minimum generation offers that exceed \$1,000/MWh if the generator is able to demonstrate such costs. The waiver extends from January 4, 2018 through February 28, 2018.
  - Natural gas prices are up 369.2% year-over-year.
  - Jet Kerosene Gulf Coast was \$14.47/MMBtu, up from \$13.47/MMBtu in December.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.83/MMBtu, up from \$13.91/MMBtu in December.
  - Distillate prices are up 28.2% year-over-year.
- Uplift per MWh is lower compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.92)/MWh; lower than (\$0.68)/MWh in December.
    - Local Reliability Share is \$0.59/MWh, higher than \$0.09/MWh in December.
    - Statewide Share is (\$1.52)/MWh, lower than (\$0.78)/MWh in December.
  - TSA \$ per NYC MWh is \$0.00/MWh.
  - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are lower than December.

## Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\* 2017 Annual Average \$36.56/MWh January 2017 YTD Average \$41.96/MWh January 2018 YTD Average \$101.54/MWh

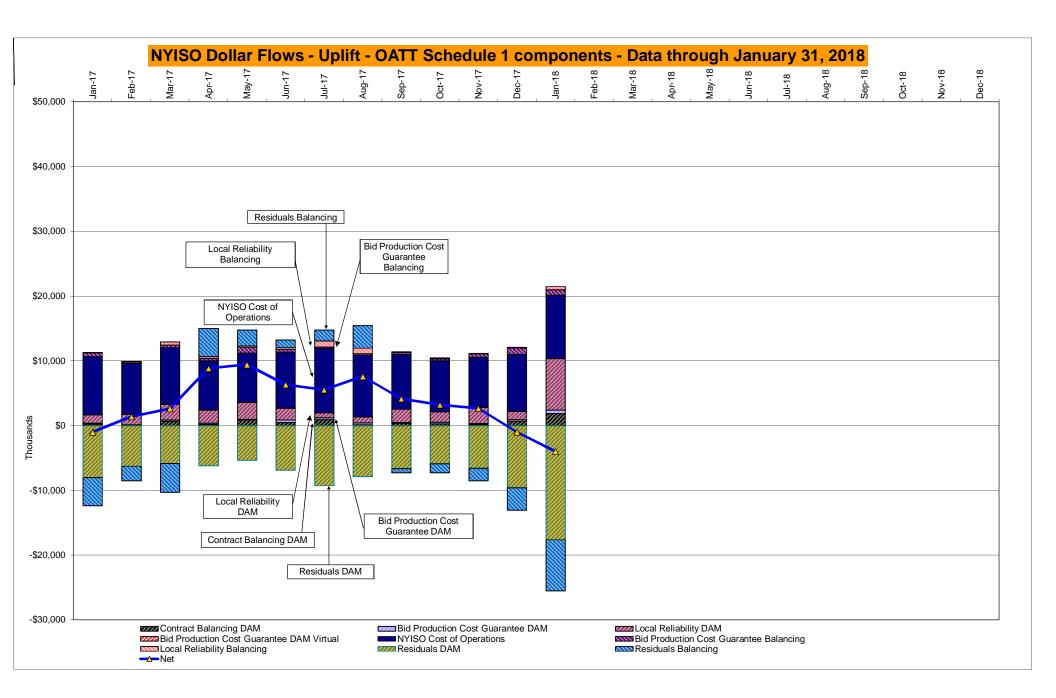


<sup>\*</sup> Excludes ICAP payments.

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

2018	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	99.55	·		<del></del>	<del></del> -							
NTAC	0.71											
Reserve	0.92											
Regulation	0.15											
NYISO Cost of Operations	0.65											
FERC Fee Recovery	0.08											
Uplift	(0.92)											
Uplift: Local Reliability Share	0.59											
Uplift: Statewide Share	(1.52)											
Voltage Support and Black Start	0.40											
Avg Monthly Cost	101.54											
Avg YTD Cost	101.54											
TSA \$ per NYC MWh	0.00											
2017	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	<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)	(80.0)	(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

<sup>\*</sup> Excludes ICAP payments. Market Mitigation and Analysis Prepared: 2/8/2018 1:40 PM



### **NYISO Markets Transactions**

<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
Day Ahead Market MWh	15,153,751											
DAM LSE Internal LBMP Energy Sales	59%											
DAM External TC LBMP Energy Sales	4%											
DAM Bilateral - Internal Bilaterals	29%											
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%											
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%											
DAM Bilateral - Wheel Through Bilaterals	1%											
Balancing Energy Market MWh	-149,619											
Balancing Energy LSE Internal LBMP Energy Sales	-147%											
Balancing Energy External TC LBMP Energy Sales	74%											
Balancing Energy Bilateral - Internal Bilaterals	9%											
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%											
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	22%											
Balancing Energy Bilateral - Wheel Through Bilaterals	-58%											
Transactions Summary												<u> </u>
LBMP	63%											
Internal Bilaterals	30%											
Import Bilaterals	5%											
Export Bilaterals	2%											
Wheels Through	1%											
Market Share of Total Load												
Day Ahead Market	101.0%											
Balancing Energy +	-1.0%											
Total MWH	15,004,132											
Average Daily Energy Sendout/Month GWh	463											
	100											
2017	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
2017 Dav Ahead Market MWh			<u> </u>		<del></del>	·	<u>July</u> 16.505.801	<u></u>		<u></u>		
Day Ahead Market MWh	14,135,019	12,565,206	13,983,865	12,061,475	12,966,981	14,406,180	16,505,801	15,948,927	14,100,695	13,252,368	13,042,826	14,829,403
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	14,135,019 57%	12,565,206 57%	13,983,865 55%	12,061,475 54%	12,966,981 58%	14,406,180 60%	16,505,801 62%	15,948,927 61%	14,100,695 57%	13,252,368 55%	13,042,826 53%	14,829,403 55%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales	14,135,019 57% 2%	12,565,206 57% 2%	13,983,865 55% 1%	12,061,475 54% 1%	12,966,981 58% 1%	14,406,180 60% 1%	16,505,801 62% 1%	15,948,927 61% 1%	14,100,695 57% 1%	13,252,368 55% 2%	13,042,826 53% 3%	14,829,403 55% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	14,135,019 57% 2% 32%	12,565,206 57% 2% 32%	13,983,865 55% 1% 34%	12,061,475 54% 1% 35%	12,966,981 58% 1% 33%	14,406,180 60% 1% 31%	16,505,801 62% 1% 29%	15,948,927 61% 1% 29%	14,100,695 57% 1% 32%	13,252,368 55% 2% 34%	13,042,826 53% 3% 34%	14,829,403 55% 5% 32%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5%	12,565,206 57% 2% 32% 5%	13,983,865 55% 1% 34% 5%	12,061,475 54% 1% 35% 6%	12,966,981 58% 1% 33% 4%	14,406,180 60% 1% 31% 5%	16,505,801 62% 1% 29% 4%	15,948,927 61% 1% 29% 5%	14,100,695 57% 1% 32% 5%	13,252,368 55% 2% 34% 5%	13,042,826 53% 3% 34% 5%	14,829,403 55% 5% 32% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2%	12,565,206 57% 2% 32% 5% 2%	13,983,865 55% 1% 34% 5% 2%	12,061,475 54% 1% 35% 6% 2%	12,966,981 58% 1% 33% 4% 2%	14,406,180 60% 1% 31% 5% 2%	16,505,801 62% 1% 29% 4% 1%	15,948,927 61% 1% 29% 5% 2%	14,100,695 57% 1% 32% 5% 2%	13,252,368 55% 2% 34% 5% 2%	13,042,826 53% 3% 34% 5% 2%	14,829,403 55% 5% 32% 5% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals	14,135,019 57% 2% 32% 5% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2%	12,966,981 58% 1% 33% 4% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2%	16,505,801 62% 1% 29% 4% 1% 3%	15,948,927 61% 1% 29% 5% 2% 3%	14,100,695 57% 1% 32% 5% 2% 4%	13,252,368 55% 2% 34% 5% 2% 2%	13,042,826 53% 3% 34% 5% 2% 3%	14,829,403 55% 5% 32% 5% 2% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh	14,135,019 57% 2% 32% 5% 2% 2% -256,448	12,565,206 57% 2% 32% 5% 2% 2% -407,284	13,983,865 55% 1% 34% 5% 2% 2% -509,053	12,061,475 54% 1% 35% 6% 2% 2% -466,426	12,966,981 58% 1% 33% 4% 2% 2% -666,048	14,406,180 60% 1% 31% 5% 2% 2% -564,312	16,505,801 62% 1% 29% 4% 1% 3%	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% -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 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	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 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 External TC LBMP Energy Sales	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39%	13,983,865 55% 1% 34% 5% 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% -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% -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 External TC 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% 3% -410,072 -108% 45% 5%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1%
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 External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4%	13,983,865 55% 1% 34% 5% 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% -666,048 -120% 28% 1% 0%	14,406,180 60% 1% 31% 5% 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% -510,721 -102% 26% 5% 0%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0%
Day Ahead Market 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 External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	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% 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% -510,721 -102% 26% 5% 0% 4%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9%
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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4%	13,983,865 55% 1% 34% 5% 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% -666,048 -120% 28% 1% 0%	14,406,180 60% 1% 31% 5% 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% -510,721 -102% 26% 5% 0%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0%
Day Ahead Market 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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary	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% 2% -254,003 -99% 25% -1% 0% 9% -34%
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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP	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% 58%	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% 2% -254,003 -99% 25% -1% 0% 9% -34%
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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34%	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% 58% 34%	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% 56% 36%	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% 60% 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  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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5%	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% 60% 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 DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP Internal Bilaterals Import Bilaterals Export Bilaterals	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%  54% 37% 6% 2%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2%	14,829,403 55% 5% 32% 5% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15% 54% 37% 6%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5%	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% 60% 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  DAM Bilateral - Wheel Through Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%  54% 37% 6% 2% 2% 2%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	13,042,826 53% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	14,829,403 55% 5% 32% 5% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
Day Ahead Market 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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Mheels Through  Market Share of Total Load  Day Ahead Market	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%  54% 37% 6% 2% 2% 104.0%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2%	14,829,403 55% 5% 32% 5% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals  DAM Bilateral - Importl/Non-LBMP Market Bilaterals  DAM Bilateral - Export/Non-LBMP Market Bilaterals  DAM Bilateral - Wheel Through Bilaterals  DAM Bilateral - Wheel Through Bilaterals  Balancing Energy Market MWh  Balancing Energy LSE Internal LBMP Energy Sales  Balancing Energy External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%  54% 37% 6% 2% 2% 2%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	13,042,826 53% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	14,829,403 55% 5% 32% 5% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
Day Ahead Market 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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Mheels Through  Market Share of Total Load  Day Ahead Market	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%  54% 37% 6% 2% 2% 104.0%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1%	13,042,826 53% 3% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1%
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 External TC LBMP Energy Sales  Balancing Energy Bilateral - Internal Bilaterals  Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals  Transactions Summary  LBMP  Internal Bilaterals  Import Bilaterals  Export Bilaterals  Export Bilaterals  Wheels Through  Market Share of Total Load  Day Ahead Market  Balancing Energy +	14,135,019 57% 2% 32% 5% 2% 2% -256,448 -157% 64% 15% 0% 10% -32% 58% 33% 5% 2% 2% 2%	12,565,206 57% 2% 32% 5% 2% 2% -407,284 -132% 39% 8% 4% 7% -26% 57% 34% 5% 2% 2% 2% 2%	13,983,865 55% 1% 34% 5% 2% 2% -509,053 -148% 44% 12% 0% 5% -13% 55% 36% 5% 2% 2% 2% 2%	12,061,475 54% 1% 35% 6% 2% 2% -466,426 -115% 22% 5% 0% 4% -15%  54% 37% 6% 2% 2% 104.0% -4.0%	12,966,981 58% 1% 33% 4% 2% 2% -666,048 -120% 28% 1% 0% 3% -12% 58% 34% 4% 2% 2% 2% 2%	14,406,180 60% 1% 31% 5% 2% 2% -564,312 -114% 23% 4% 0% 3% -16% 60% 32% 5% 2% 1% 104.1% -4.1%	16,505,801 62% 1% 29% 4% 1% 3% -747,473 -100% 18% 3% 0% 1% -22% 62% 30% 5% 2% 2% 2%	15,948,927 61% 1% 29% 5% 2% 3% -853,898 -87% 13% 2% 0% 1% -29% 61% 31% 5% 2% 2% 2%	14,100,695 57% 1% 32% 5% 2% 4% -633,990 -76% 12% 3% 0% 1% -40% 58% 33% 5% 2% 2% 2% 2%	13,252,368 55% 2% 34% 5% 2% 2% -510,721 -102% 26% 5% 0% 4% -33% 56% 36% 5% 2% 1% 104.0% -4.0%	13,042,826 53% 34% 5% 2% 3% -410,072 -108% 45% 5% 0% 7% -49% 56% 36% 5% 2% 1% 103.2% -3.2%	14,829,403 55% 5% 32% 5% 2% 2% -254,003 -99% 25% -1% 0% 9% -34% 60% 32% 5% 2% 1% 101.7% -1.7%

<sup>+</sup> Balancing Energy: Load(MW) purchased at Real Time LBMP.

Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

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

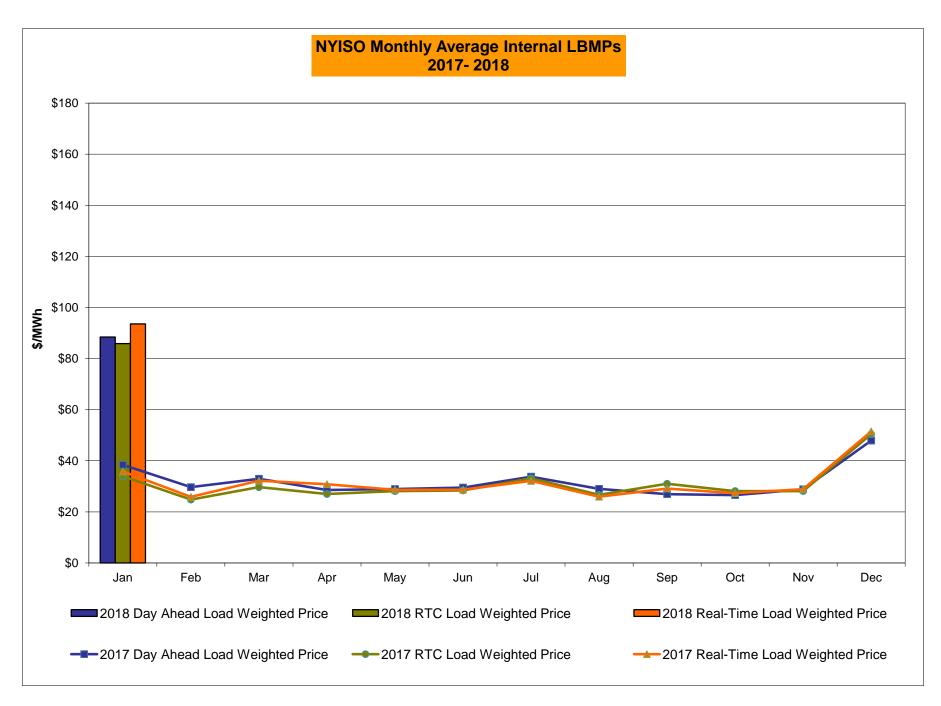
#### **NYISO Markets 2018 Energy Statistics**

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August September	October November December
DAY AHEAD LBMP									
Price *	\$83.53								
Standard Deviation	\$58.94								
Load Weighted Price **	\$88.42								
RTC LBMP									
Price *	\$81.65								
Standard Deviation	\$60.83								
Load Weighted Price **	\$85.85								
REAL TIME LBMP									
Price *	\$87.94								
Standard Deviation	\$87.41								
Load Weighted Price **	\$93.59								
Average Daily Energy Sendout/Month GWh	463								

#### **NYISO Markets 2017 Energy Statistics**

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

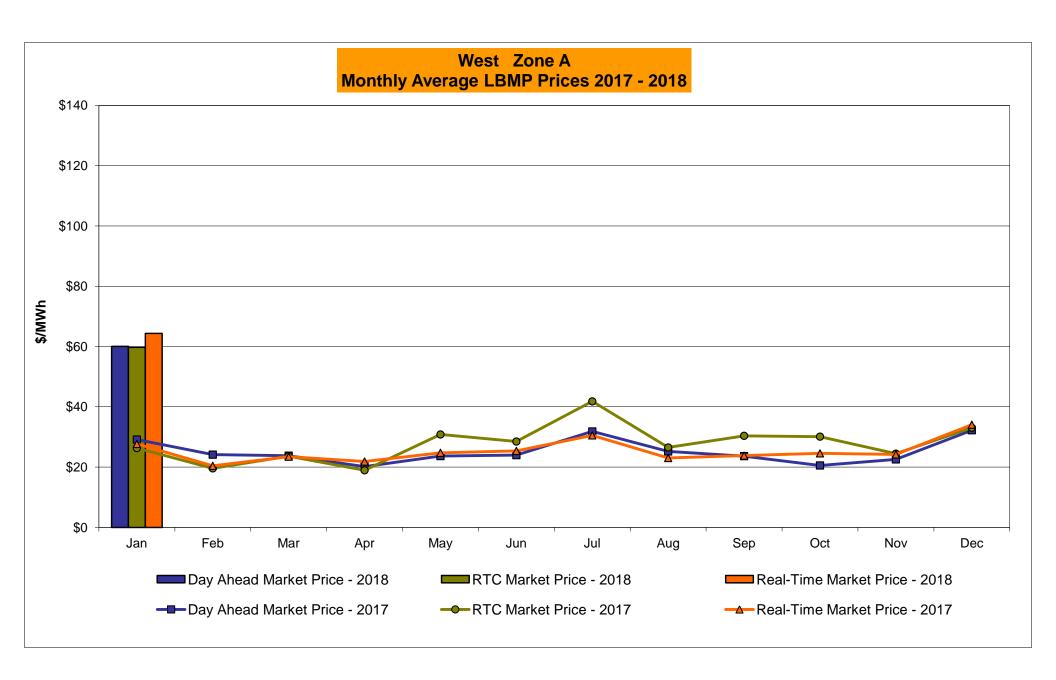
<sup>\*</sup> Average zonal load weighted prices.
\*\* Average zonal load weighted prices, load weighted in each hour.

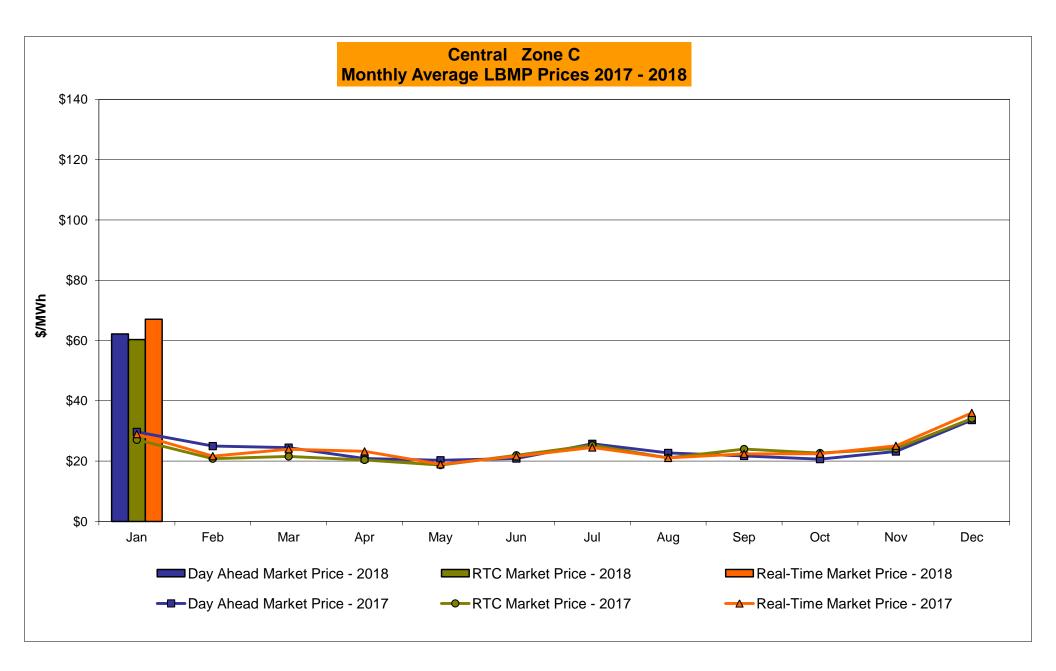


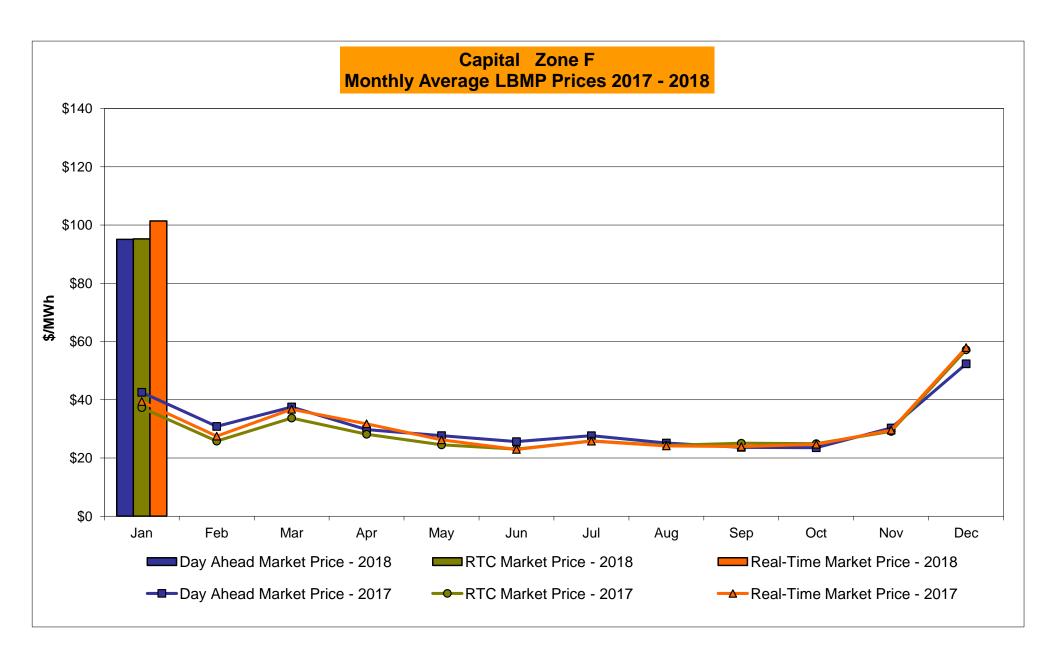
#### January 2018 Zonal LBMP Statistics for NYISO (\$/MWh)

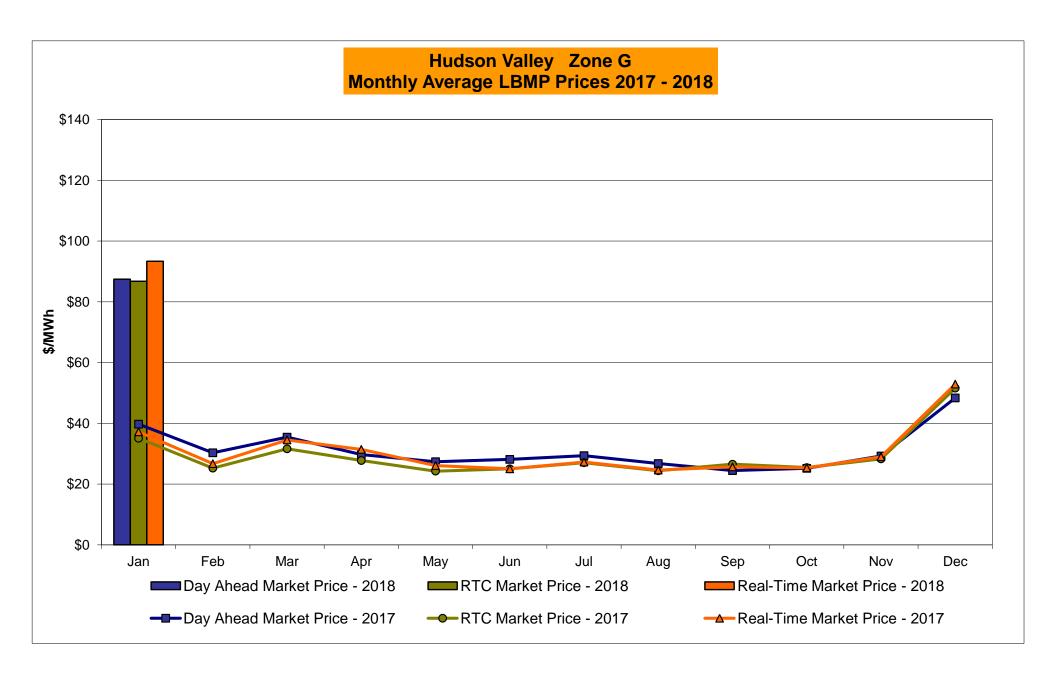
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	60.05	59.26	56.38	62.19	64.51	95.11	87.41	88.23	89.57	96.58	99.85
Standard Deviation	47.85	47.70	49.39	49.63	52.04	68.21	62.68	63.12	63.11	67.84	63.11
RTC LBMP											
Unweighted Price *	59.73	56.88	54.86	60.34	62.99	95.27	86.76	87.38	87.81	94.50	95.13
Standard Deviation	56.21	50.68	53.13	52.89	55.56	74.11	66.48	66.92	66.40	69.20	67.58
REAL TIME LBMP											
Unweighted Price *	64.35	63.53	61.92	67.09	70.20	101.40	93.35	94.01	94.77	102.07	100.23
Standard Deviation	74.10	74.29	77.12	77.42	81.27	104.52	95.45	96.04	95.23	98.01	93.86
		HADBO	HADBO			CDOSS					
	ONTADIO	HYDRO	HYDRO		NEW	CROSS	NODTUDODT.				
	ONTARIO IESO	QUEBEC	HYDRO QUEBEC Import/Export)	РЈМ	NEW ENGLAND		NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		QUEBEC	QUEBEC	PJM		SOUND		NEPTUNE Controllable	LINDEN VFT Controllable	HUDSON Controllable	Dennison Controllable
		QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND CABLE	NORWALK				
DAY AHEAD LBMP	IESO  Zone O	QUEBEC (Wheel) ( Zone M	QUEBEC Import/Export) Zone M	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price *	<b>Zone O</b> 58.20	QUEBEC (Wheel) ( Zone M 51.66	QUEBEC Import/Export)  Zone M  51.66	<b>Zone P</b> 75.54	<b>Zone N</b> 101.80	SOUND CABLE Controllable Line 96.12	NORWALK Controllable Line 98.01	Controllable Line 93.74	Controllable Line 93.81	Controllable Line 92.96	Controllable Line 55.45
	IESO  Zone O	QUEBEC (Wheel) ( Zone M	QUEBEC Import/Export) Zone M	Zone P	ENGLAND  Zone N	SOUND CABLE Controllable Line	NORWALK Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
Unweighted Price * Standard Deviation  RTC LBMP	<b>Zone O</b> 58.20 45.66	QUEBEC (Wheel) ( <u>Zone M</u> 51.66 42.56	QUEBEC Import/Export)  Zone M  51.66 42.56	<b>Zone P</b> 75.54 57.06	<b>Zone N</b> 101.80 64.04	SOUND CABLE Controllable Line 96.12 59.63	NORWALK Controllable Line  98.01 58.86	Controllable Line 93.74 60.44	Controllable Line 93.81 66.73	Controllable Line 92.96 65.29	Controllable Line 55.45 48.66
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price *	<b>Zone O</b> 58.20 45.66	QUEBEC (Wheel) (  Zone M  51.66 42.56	QUEBEC Import/Export)  Zone M  51.66 42.56	<b>Zone P</b> 75.54 57.06	<b>Zone N</b> 101.80 64.04	SOUND CABLE Controllable Line 96.12 59.63	NORWALK Controllable Line  98.01 58.86	23.74 93.74 60.44	<b>Controllable Line</b> 93.81 66.73	22.96 65.29	<b>Controllable Line</b> 55.45 48.66
Unweighted Price * Standard Deviation  RTC LBMP	<b>Zone O</b> 58.20 45.66	QUEBEC (Wheel) ( <u>Zone M</u> 51.66 42.56	QUEBEC Import/Export)  Zone M  51.66 42.56	<b>Zone P</b> 75.54 57.06	<b>Zone N</b> 101.80 64.04	SOUND CABLE Controllable Line 96.12 59.63	NORWALK Controllable Line  98.01 58.86	Controllable Line 93.74 60.44	Controllable Line 93.81 66.73	Controllable Line 92.96 65.29	Controllable Line 55.45 48.66
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	<b>Zone O</b> 58.20 45.66  54.89 47.64	QUEBEC (Wheel) (  Zone M  51.66 42.56  10.88 157.59	QUEBEC Import/Export)  Zone M  51.66 42.56  10.88 157.59	<b>Zone P</b> 75.54 57.06 74.46 58.56	<b>Zone N</b> 101.80 64.04  101.49 64.53	SOUND CABLE Controllable Line 96.12 59.63	NORWALK Controllable Line  98.01 58.86  90.77 62.96	93.74 60.44 89.18 63.15	93.81 66.73 89.19 66.80	92.96 65.29 89.14 66.42	55.45 48.66 53.99 51.71
Unweighted Price * Standard Deviation  RTC LBMP  Unweighted Price * Standard Deviation	<b>Zone O</b> 58.20 45.66	QUEBEC (Wheel) (  Zone M  51.66 42.56	QUEBEC Import/Export)  Zone M  51.66 42.56	<b>Zone P</b> 75.54 57.06	<b>Zone N</b> 101.80 64.04	SOUND CABLE Controllable Line 96.12 59.63	NORWALK Controllable Line  98.01 58.86	23.74 93.74 60.44	<b>Controllable Line</b> 93.81 66.73	22.96 65.29	<b>Controllable Line</b> 55.45 48.66

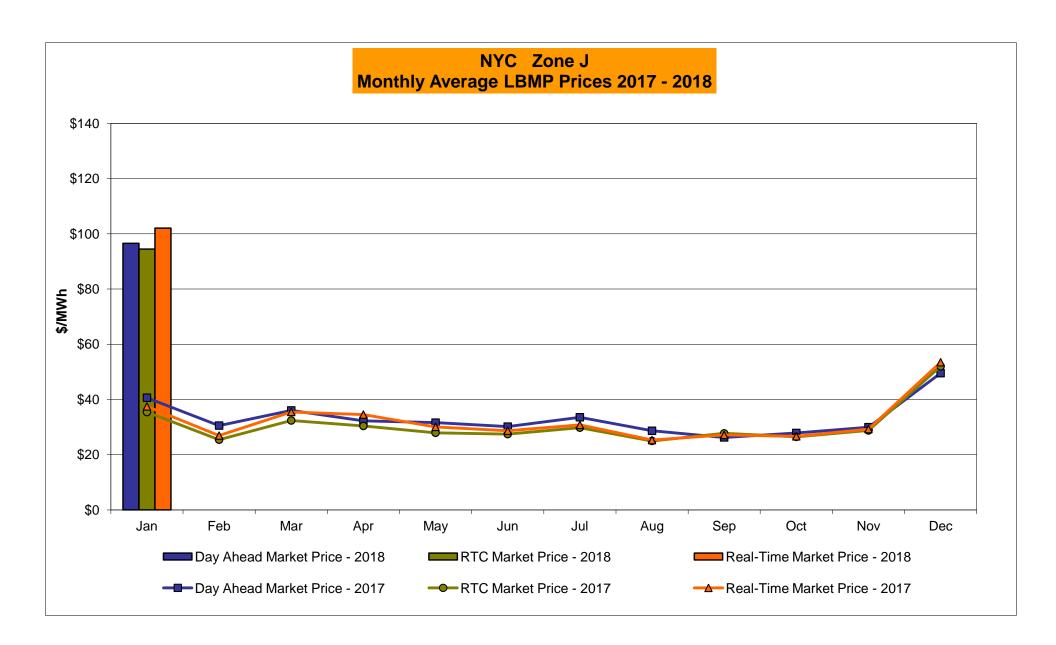
<sup>\*</sup> Straight LBMP averages

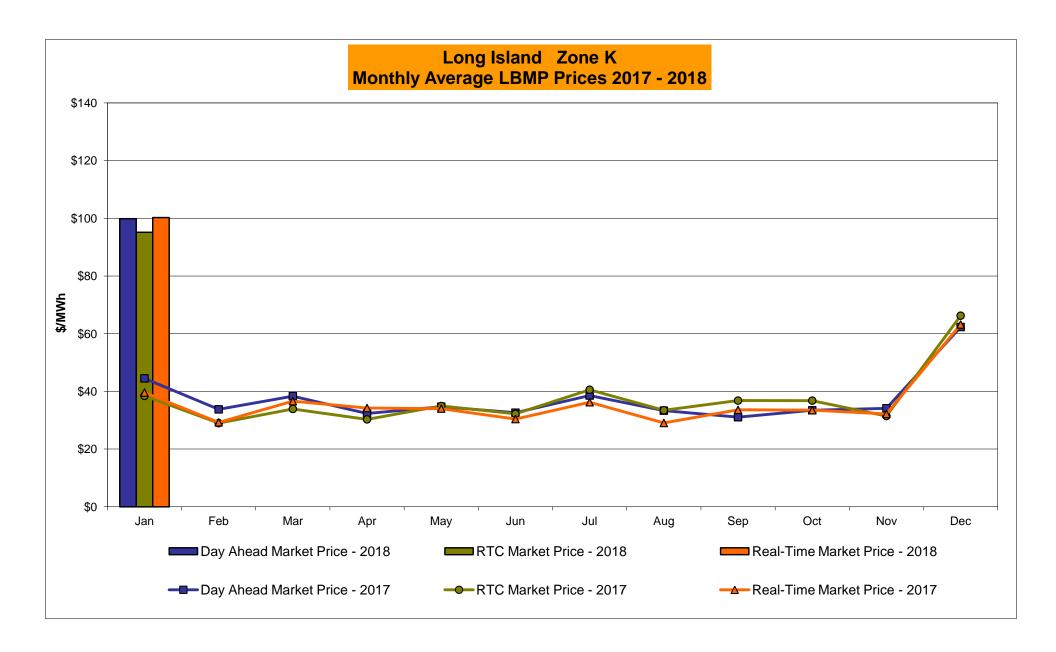


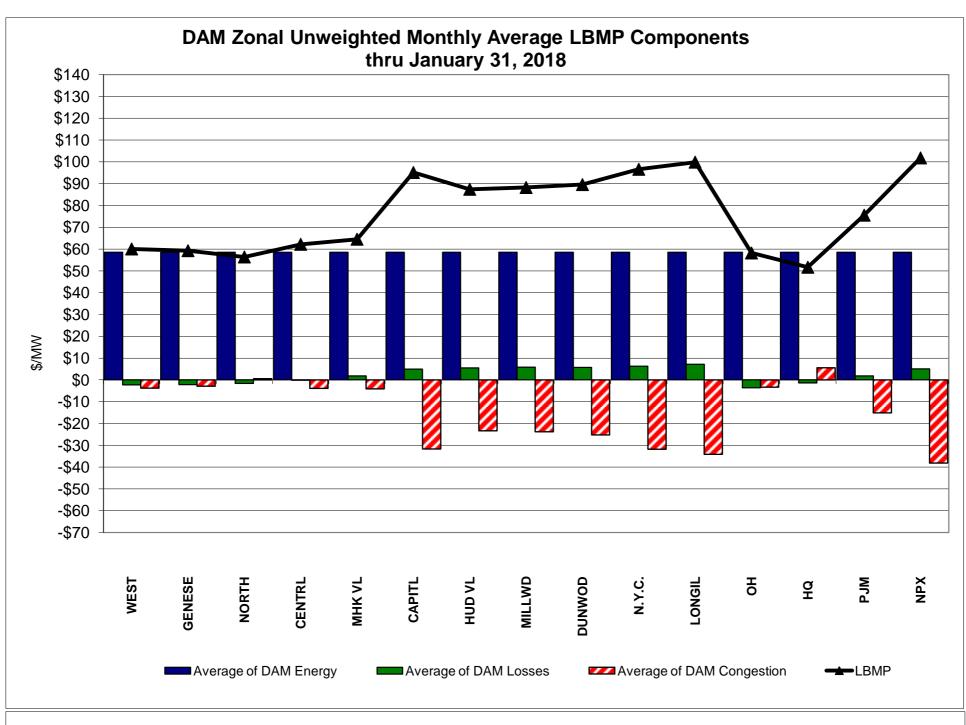


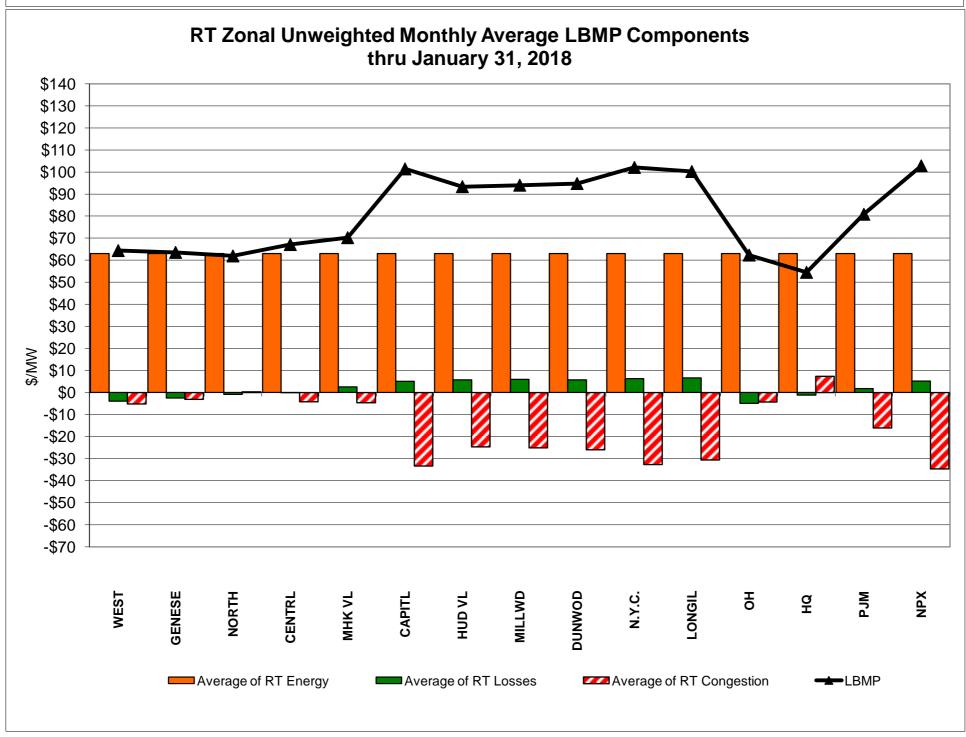




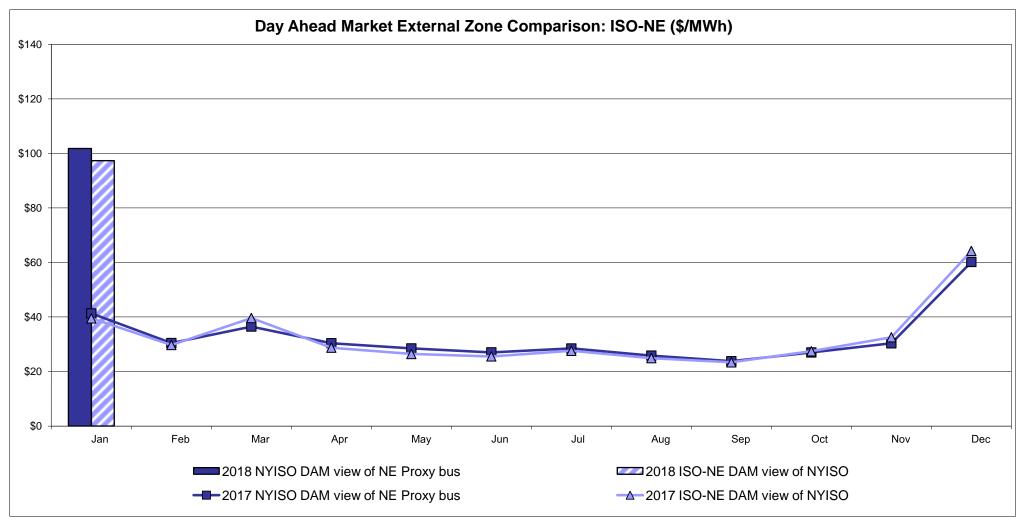


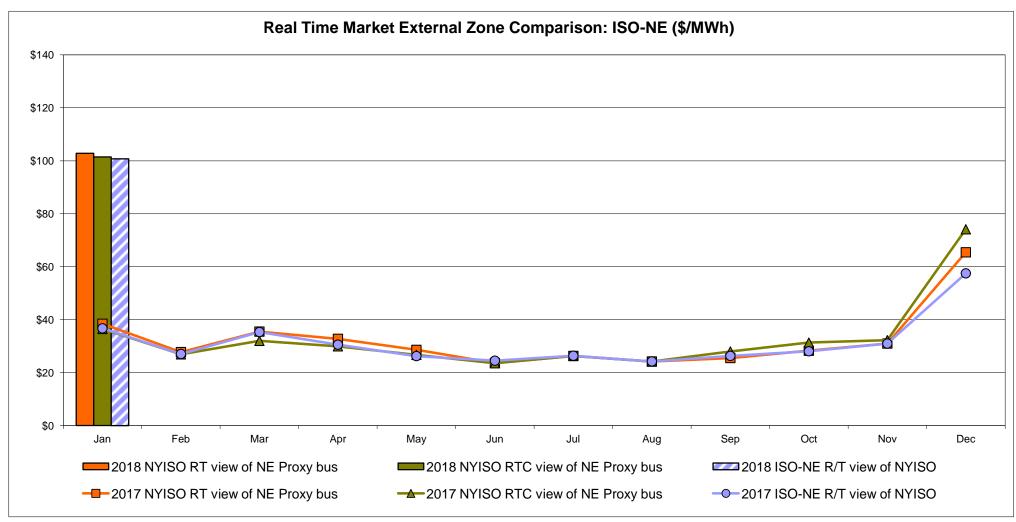




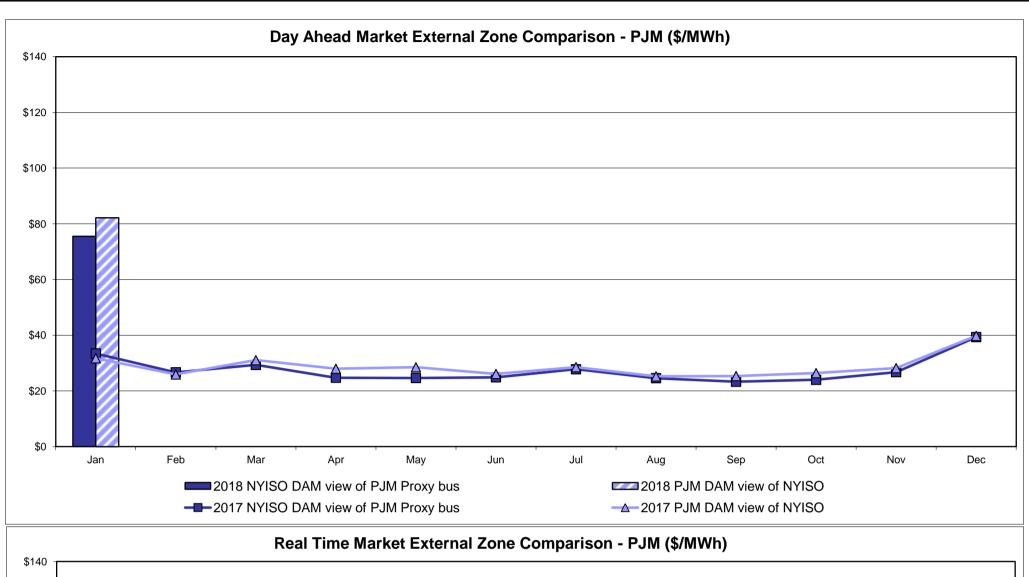


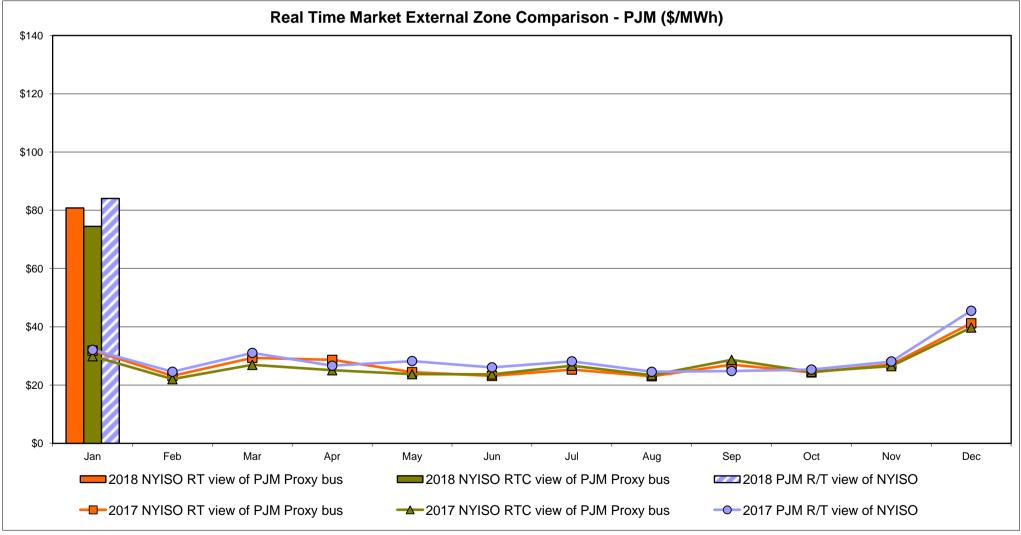
## **External Comparison ISO-New England**



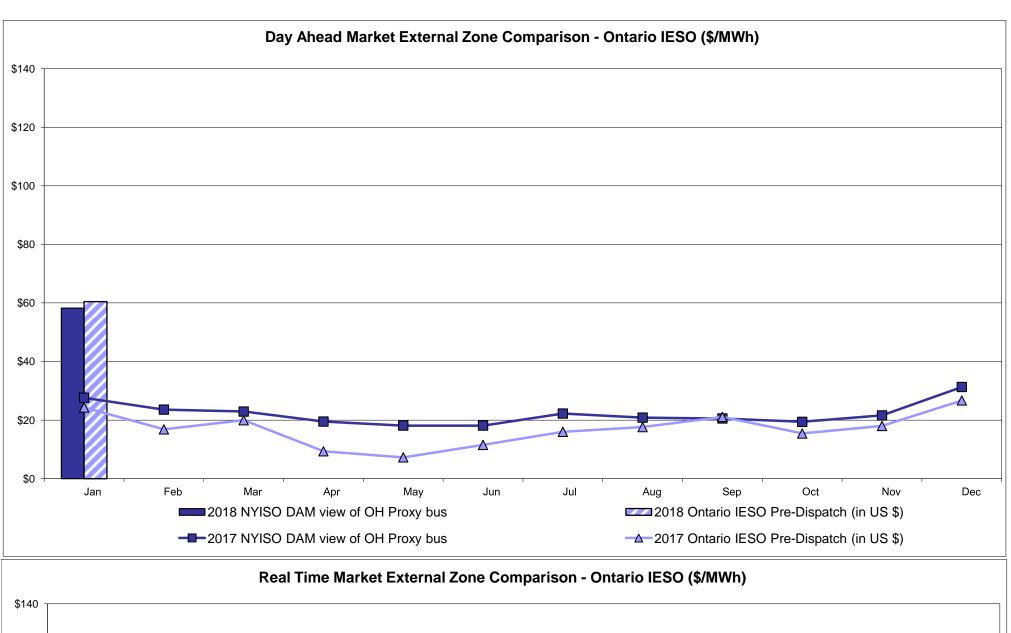


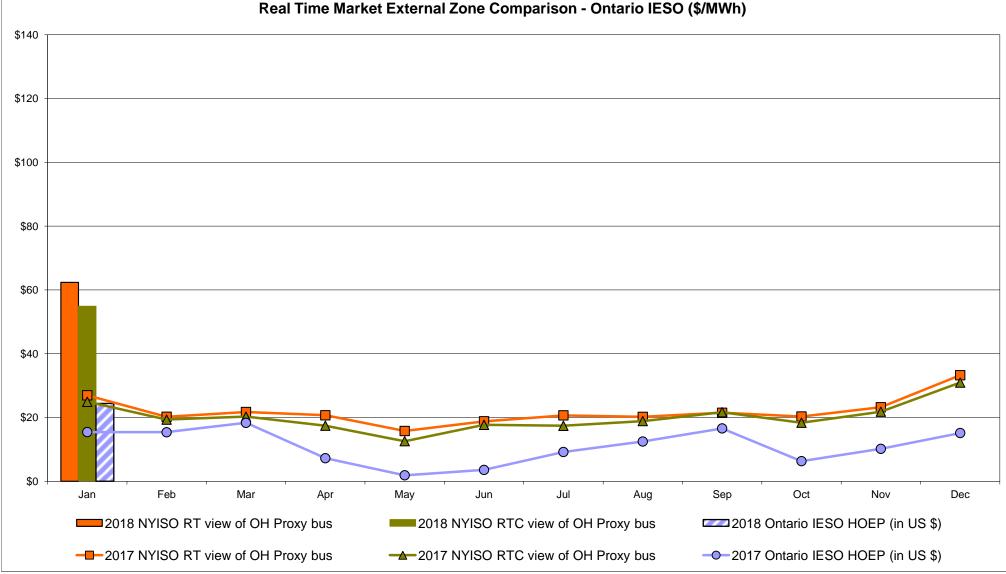
#### **External Comparison PJM**





#### **External Comparison Ontario IESO**

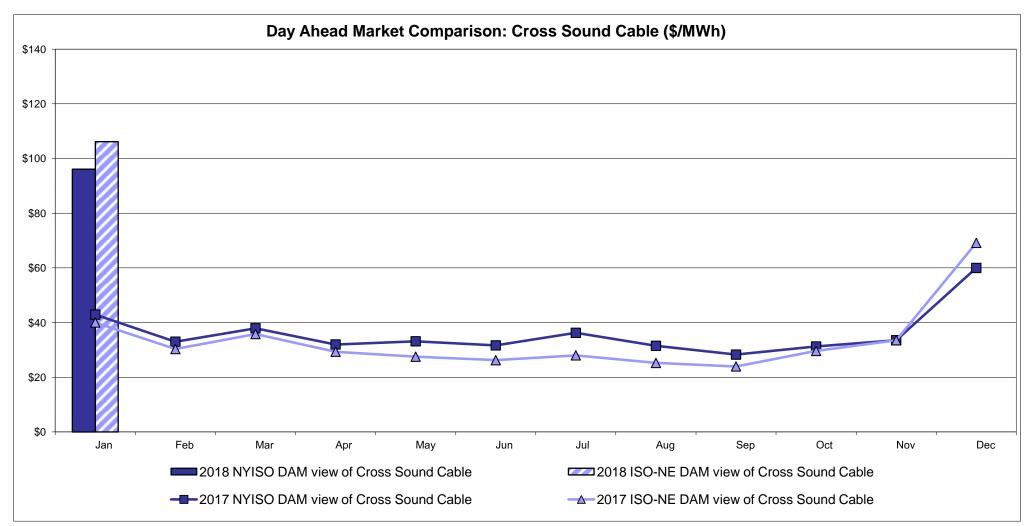


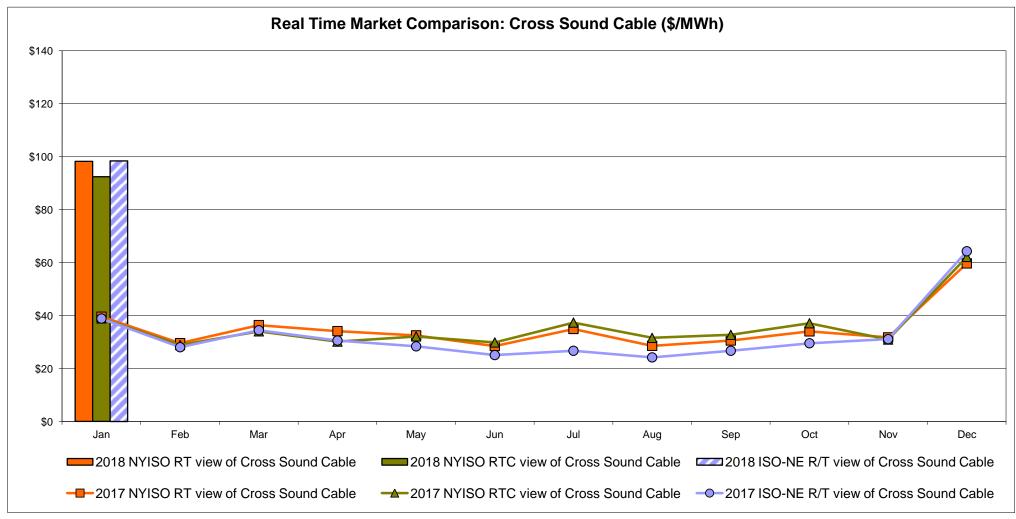


Notes: Exchange factor used for January 2018 was 0.804569957357792 to US

HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

#### **External Controllable Line: Cross Sound Cable (New England)**





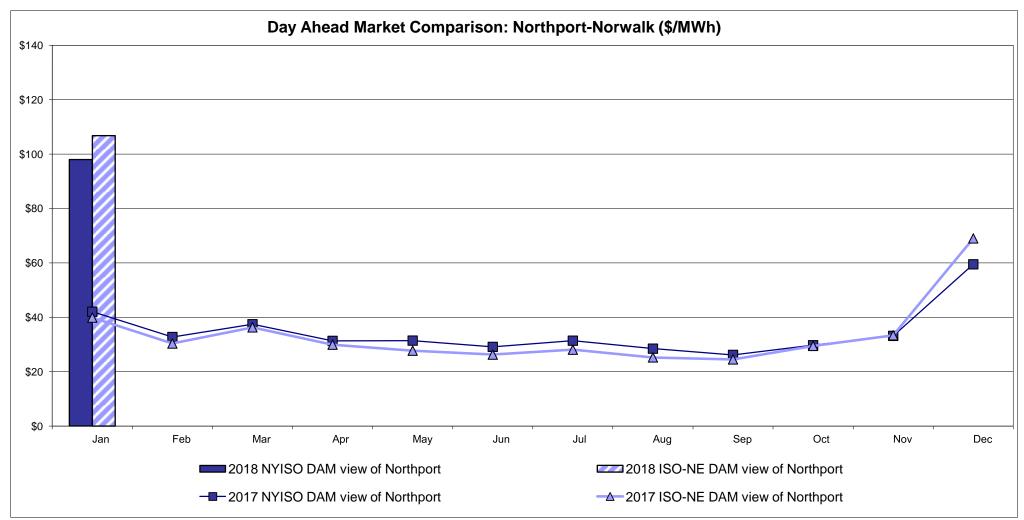
#### Note:

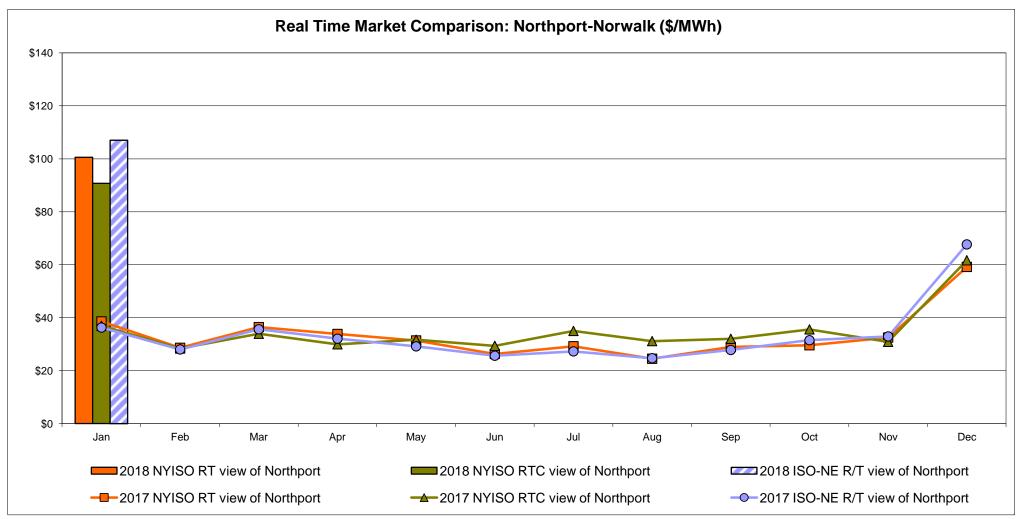
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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

#### **External Controllable Line: Northport - Norwalk (New England)**





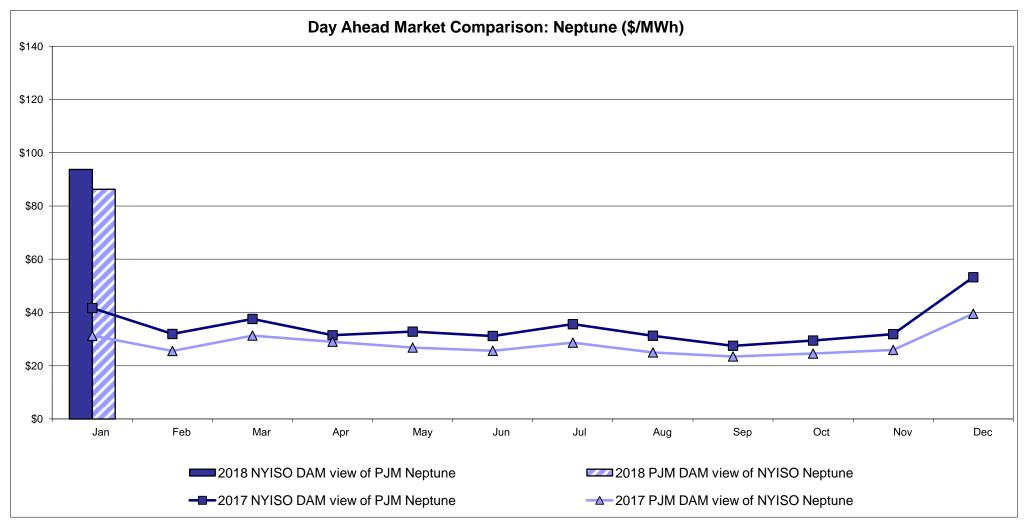
#### Note:

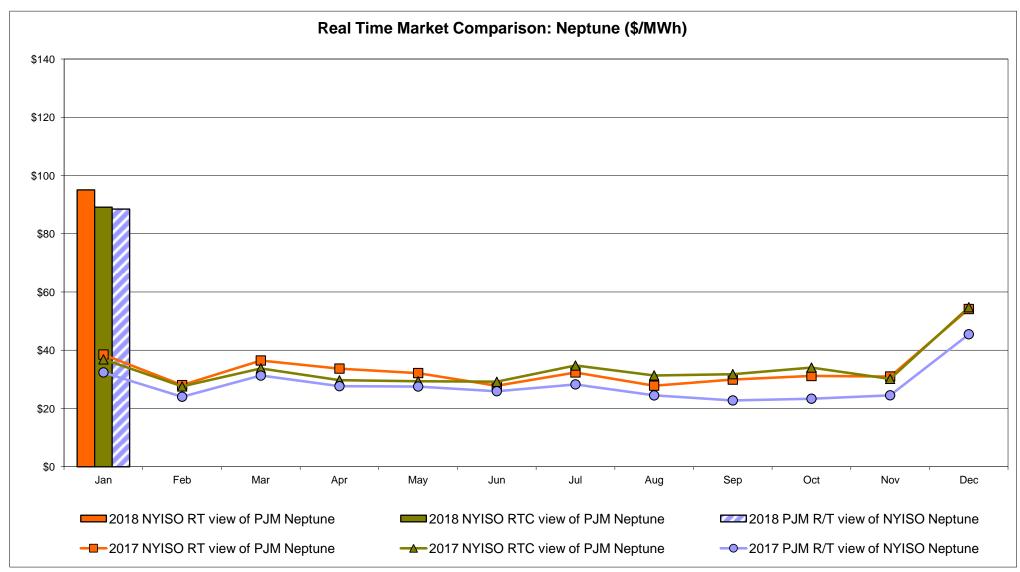
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

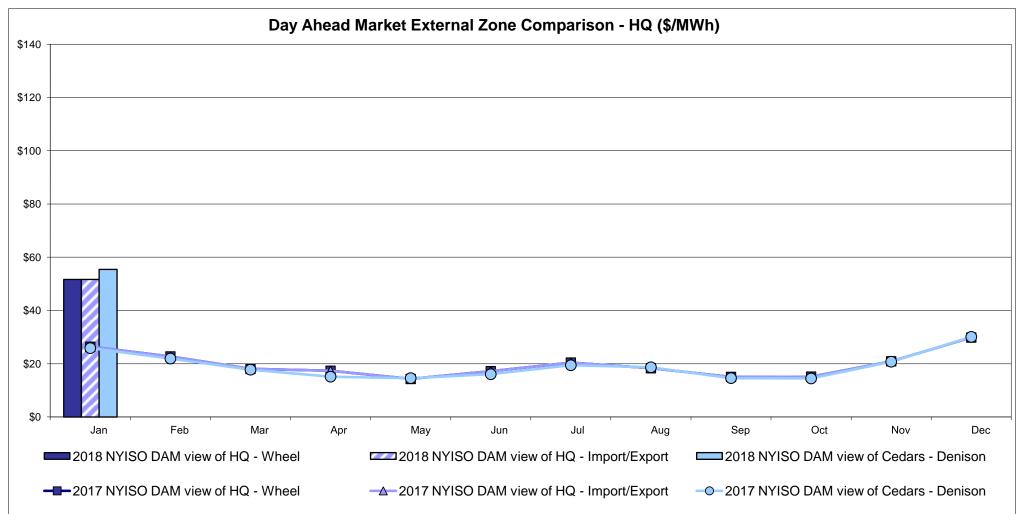
The DAM and R/T prices at the 1385 interface are used for NYISO.

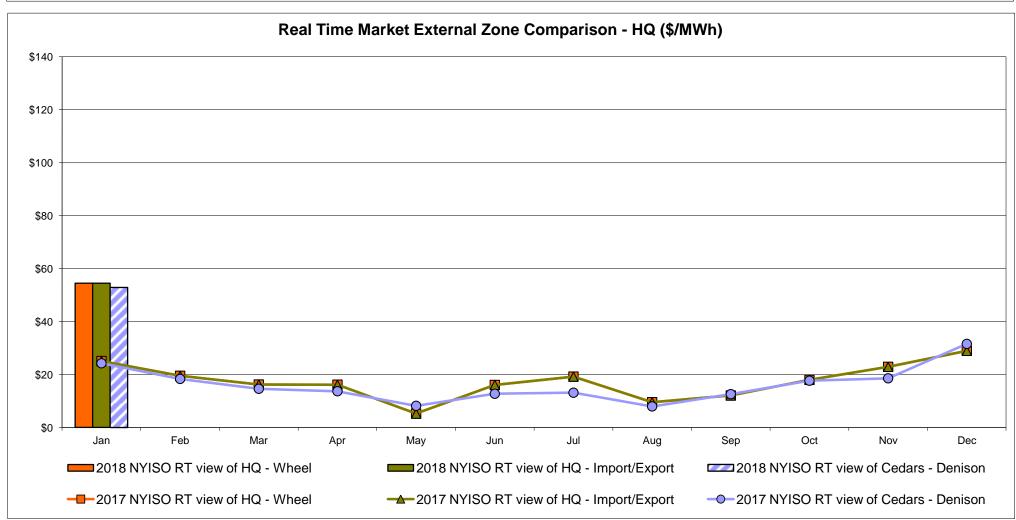
## **External Controllable Line: Neptune (PJM)**





## **External Comparison Hydro-Quebec**

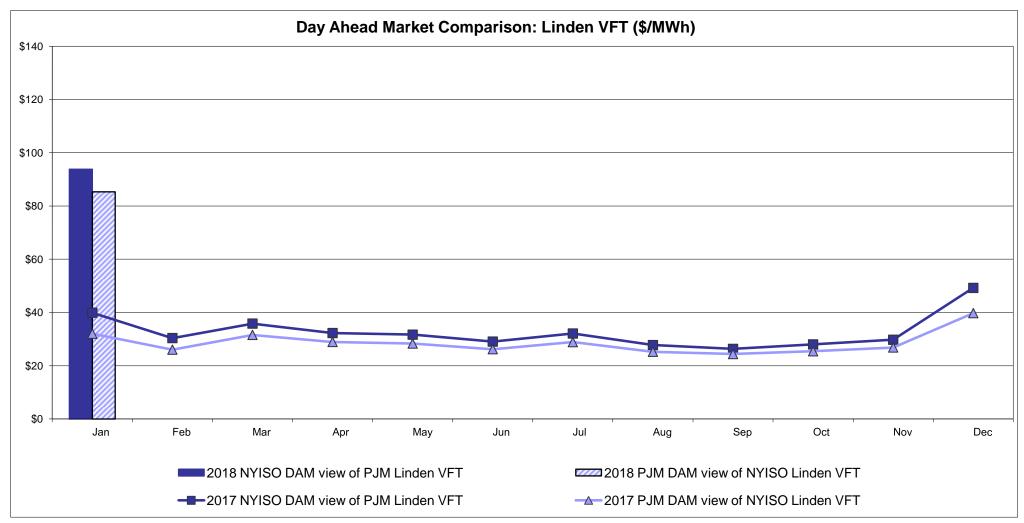


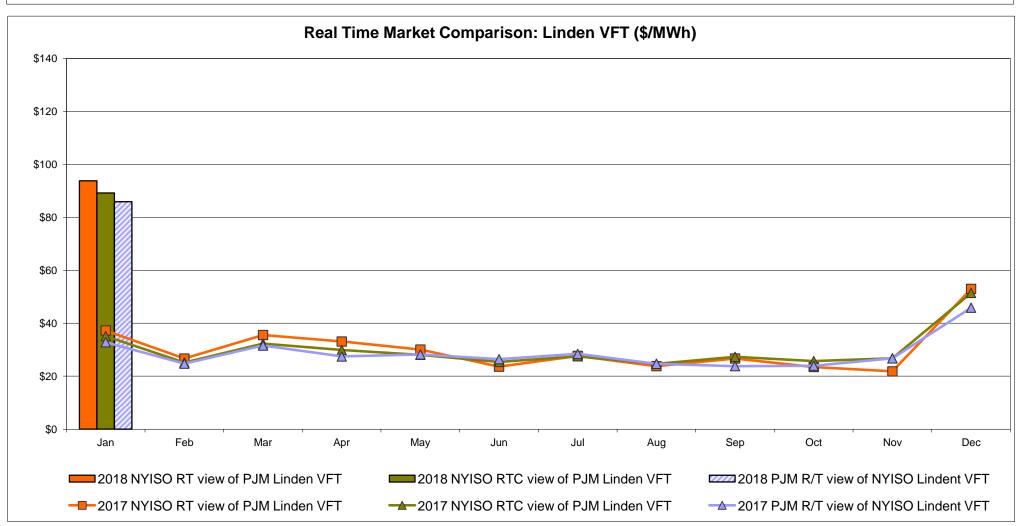


Note:

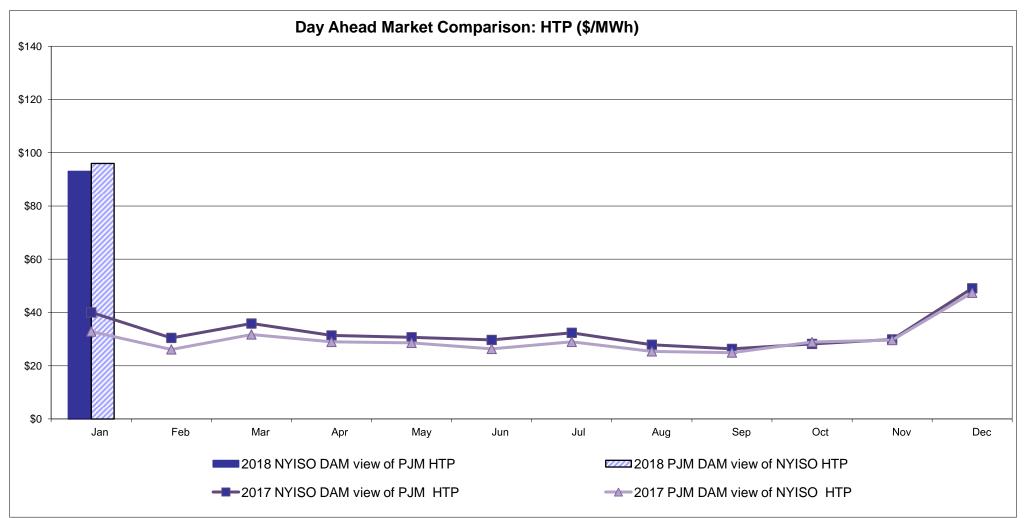
Hydro-Quebec Prices are unavailable.

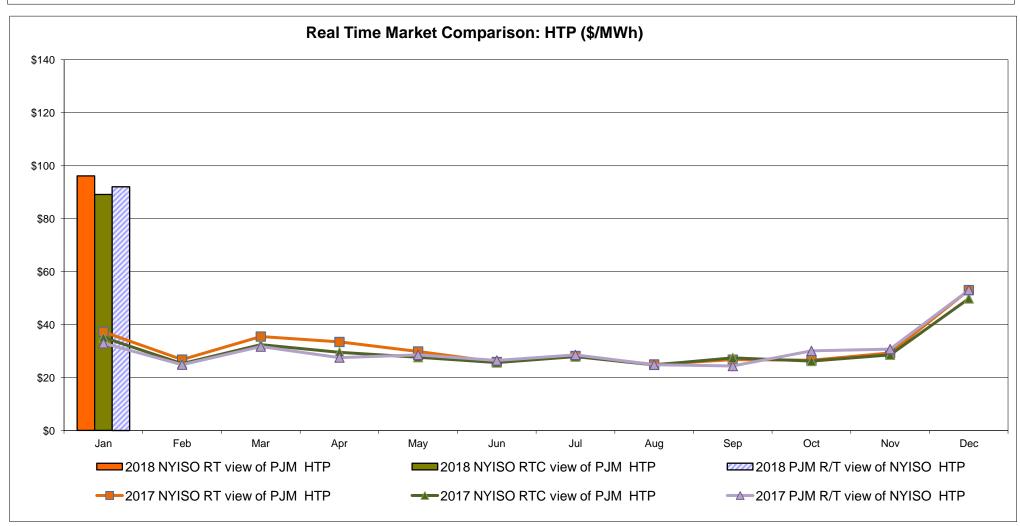
#### **External Controllable Line: Linden VFT (PJM)**





#### **External Controllable Line: Hudson (PJM)**

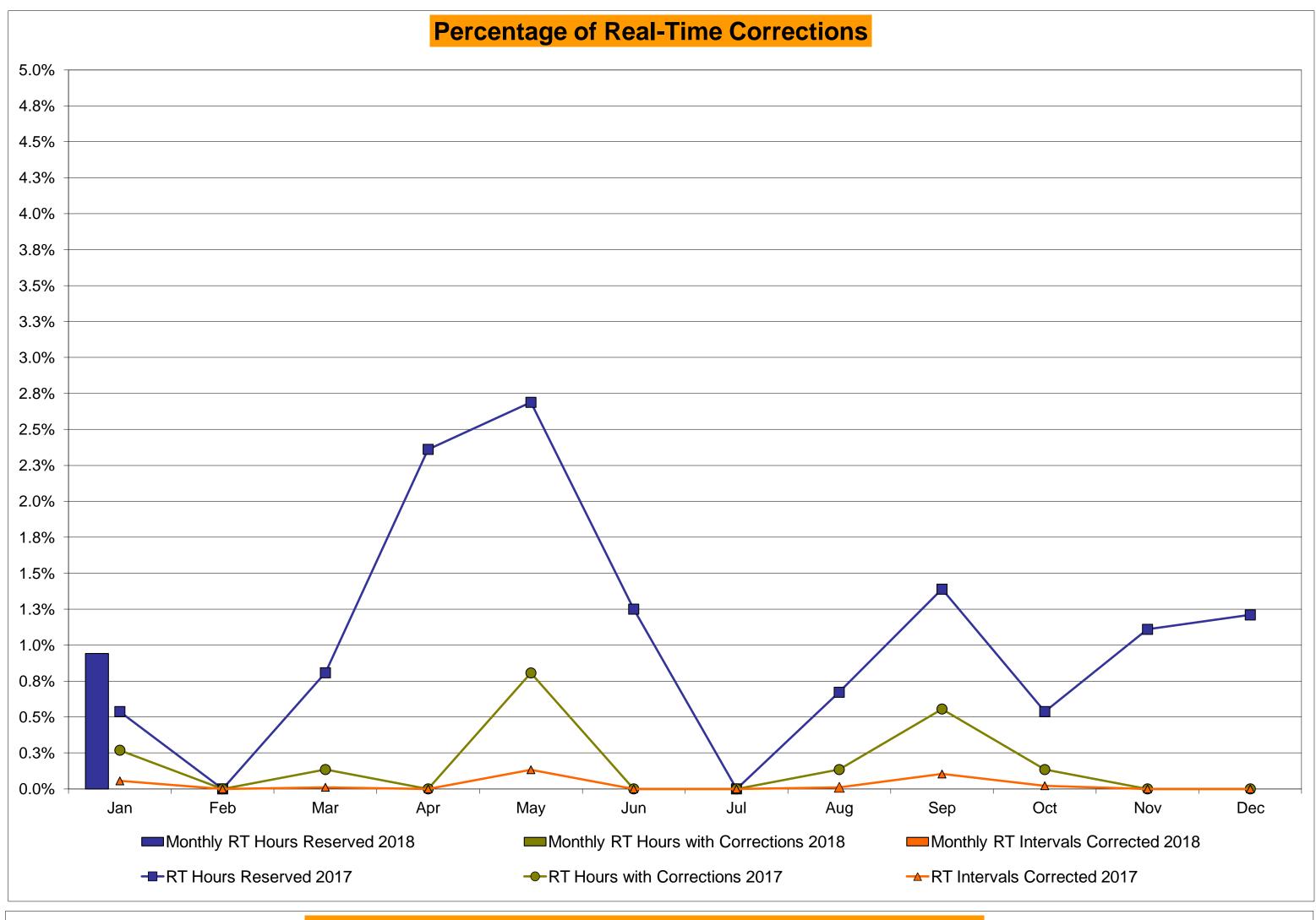


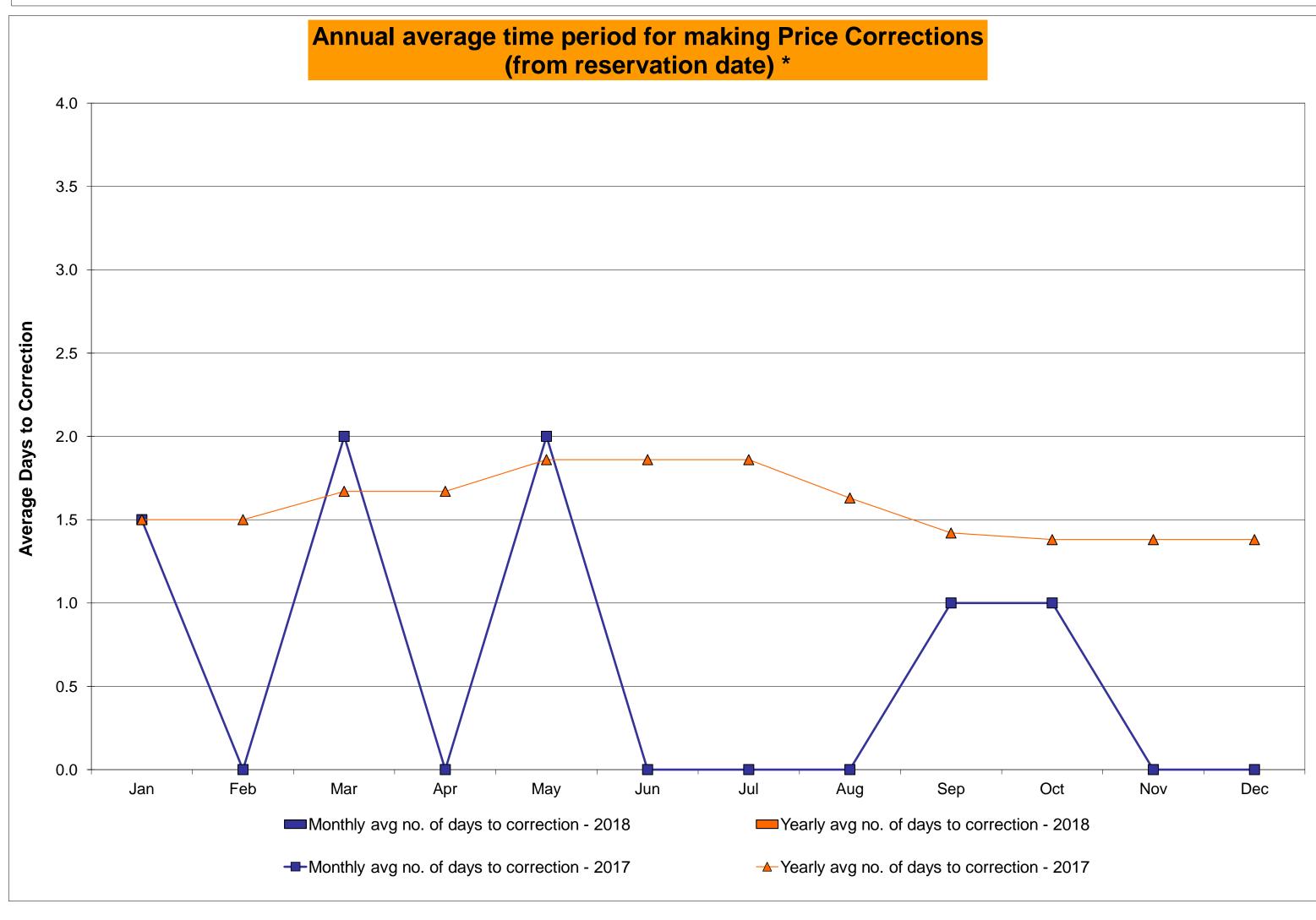


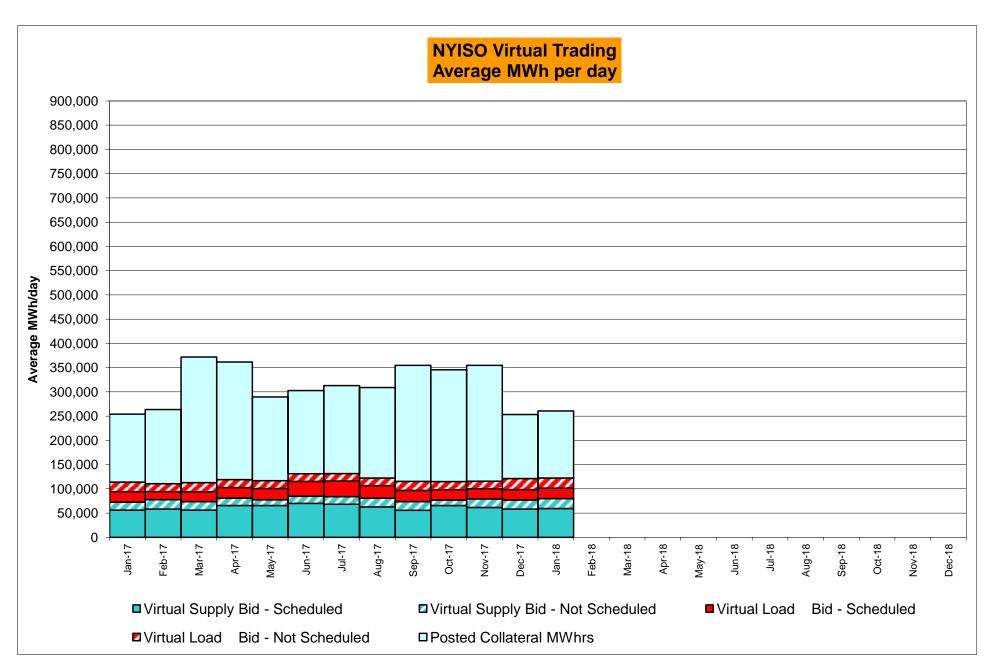
#### **NYISO Real Time Price Correction Statistics**

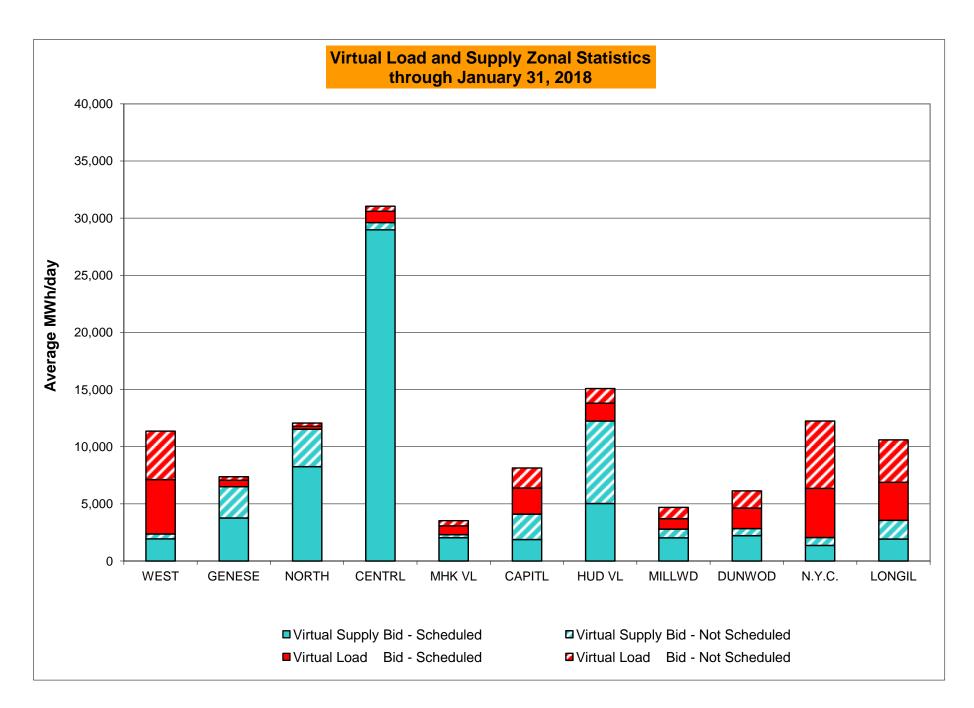
2018		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
Hour Corrections  Number of hours with corrections	in the month	0											
Number of hours	in the month	744											
% of hours with corrections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

<sup>\*</sup> Calendar days from reservation date.

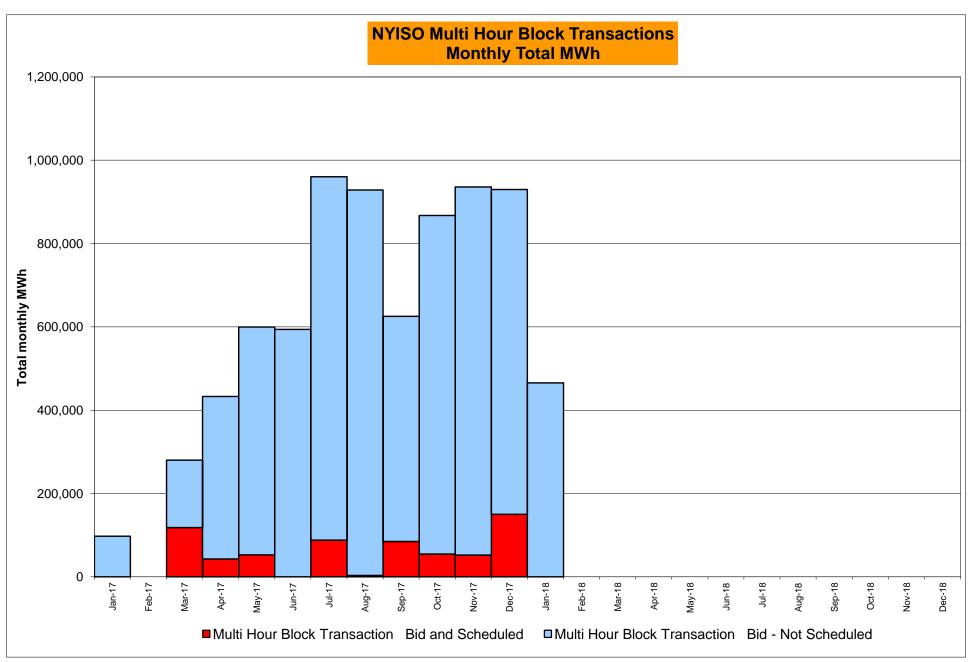


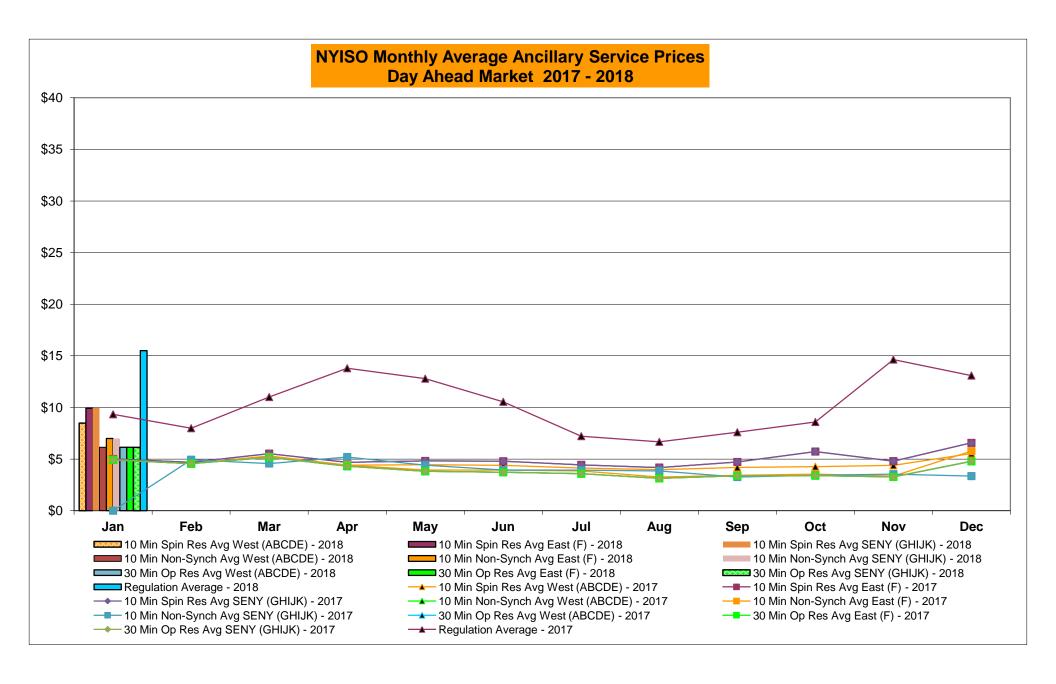


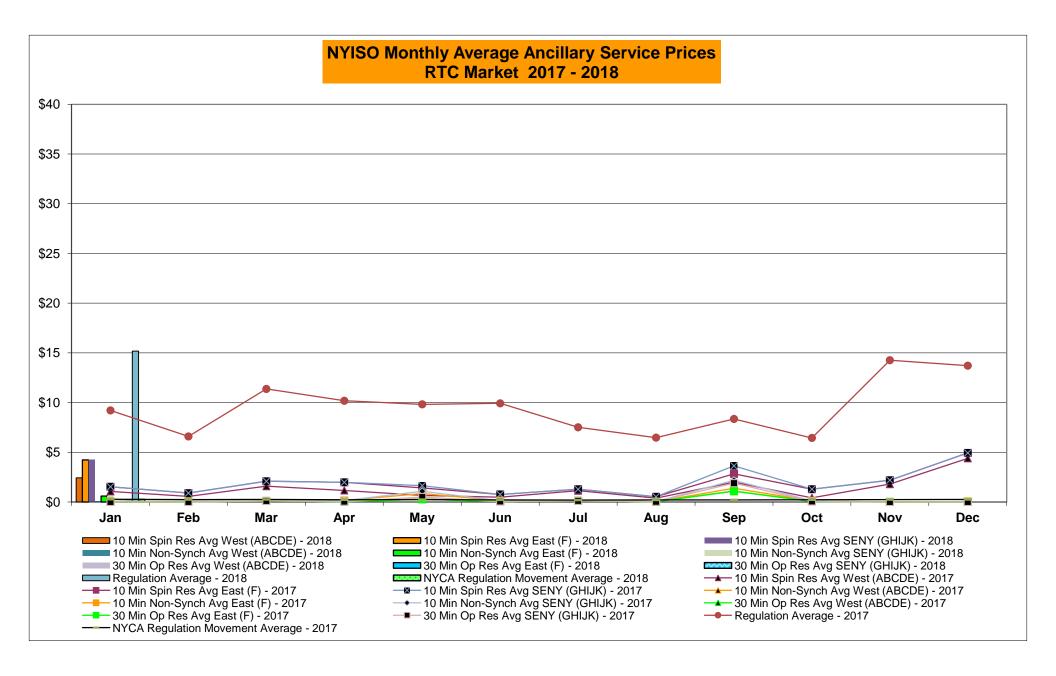


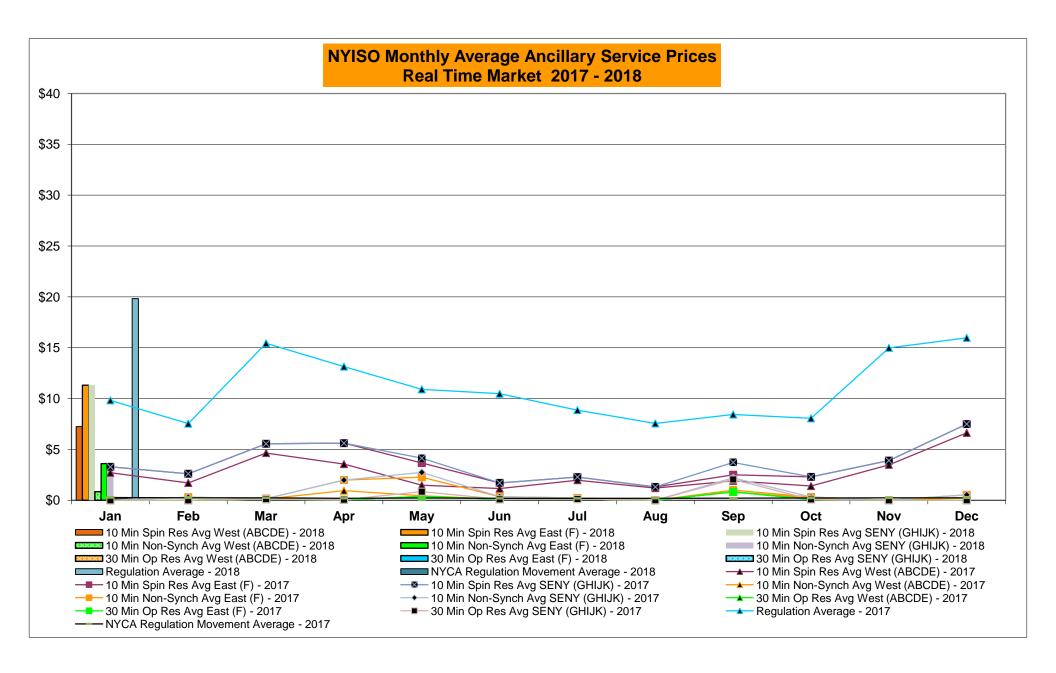


					Virtual L	oad and	Supp	oly Zonal	Statistic	s (Avera	ge MWh/d	lay) - 2018	3				
		Virtual L		Virtual S	upply Bid		1	Virtual I	Load Bid	Virtual Su		T		Virtual I	Load Bid	Virtual Su	
Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled	Zone	Date	Scheduled	Not Scheduled	Scheduled	Not Scheduled
WEST	Jan-18		4,241	1,938		MHK VL	Jan-18					DUNWOD					
1112	Feb-18		7,271	1,550	721	WILLIA VE	Feb-18		750	2,040	200	DOMMOD	Feb-18	· '	1,505	2,210	020
	Mar-18						Mar-18						Mar-18				
	Apr-18						Apr-18						Apr-18				
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
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			,	,		Feb-18		,	,	,		Feb-18				
	Mar-18						Mar-18						Mar-18				
	Apr-18						Apr-18						Apr-18				
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18						Oct-18						Oct-18				
	Nov-18						Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				
NORTH	Jan-18	274	282	8,259	3,265	HUD VL	Jan-18	1,562	1,285	5,029	7,218	LONGIL	Jan-18	3,335	3,714	1,932	1,622
	Feb-18						Feb-18						Feb-18				
	Mar-18						Mar-18						Mar-18				
	Apr-18						Apr-18						Apr-18				
	May-18						May-18						May-18				
	Jun-18						Jun-18						Jun-18				
	Jul-18						Jul-18						Jul-18				
	Aug-18						Aug-18						Aug-18				
	Sep-18						Sep-18						Sep-18				
	Oct-18					_	Oct-18 Nov-18						Oct-18 Nov-18				
	Nov-18 Dec-18					_	Dec-18						Dec-18				
	Dec-10						Dec-16						Dec-16				
CENTRL	Jan-18		434	28,975	647	MILLWD	Jan-18		988	2,033	757	NYISO	Jan-18		20,854	59,437	20,478
	Feb-18						Feb-18						Feb-18				
	Mar-18						Mar-18						Mar-18				
	Apr-18					_	Apr-18						Apr-18				
	May-18					_	May-18						May-18				
	Jun-18 Jul-18					_	Jun-18 Jul-18						Jun-18 Jul-18				
						_							Aug-18		+		
	Aug-18 Sep-18					$\dashv$	Aug-18 Sep-18						Sep-18				
	Oct-18					_	Oct-18						Oct-18				
	Nov-18					$\dashv$	Nov-18						Nov-18				
	Dec-18						Dec-18						Dec-18				



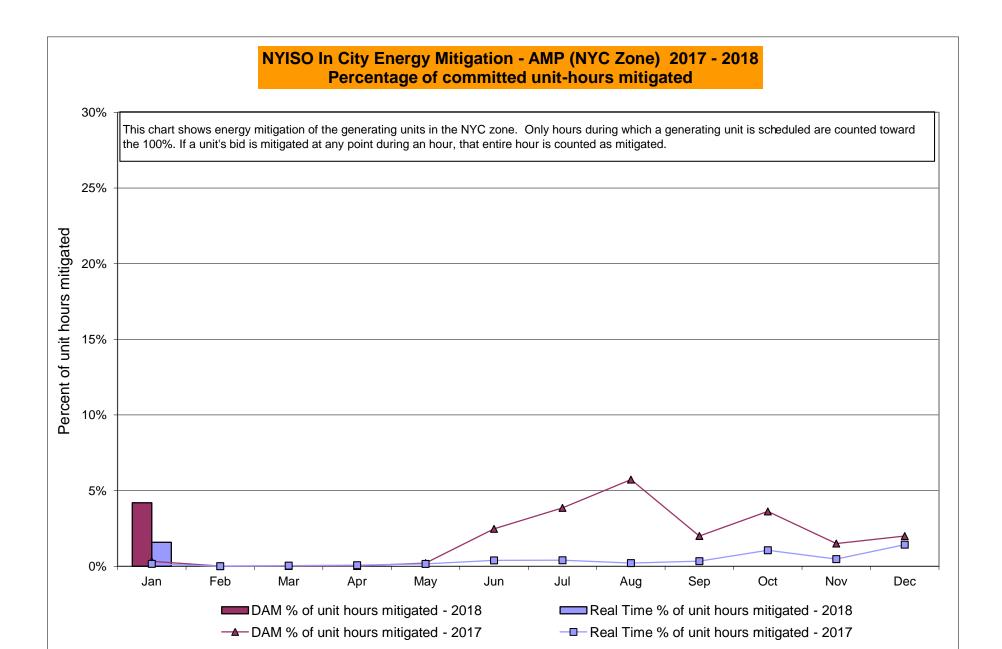


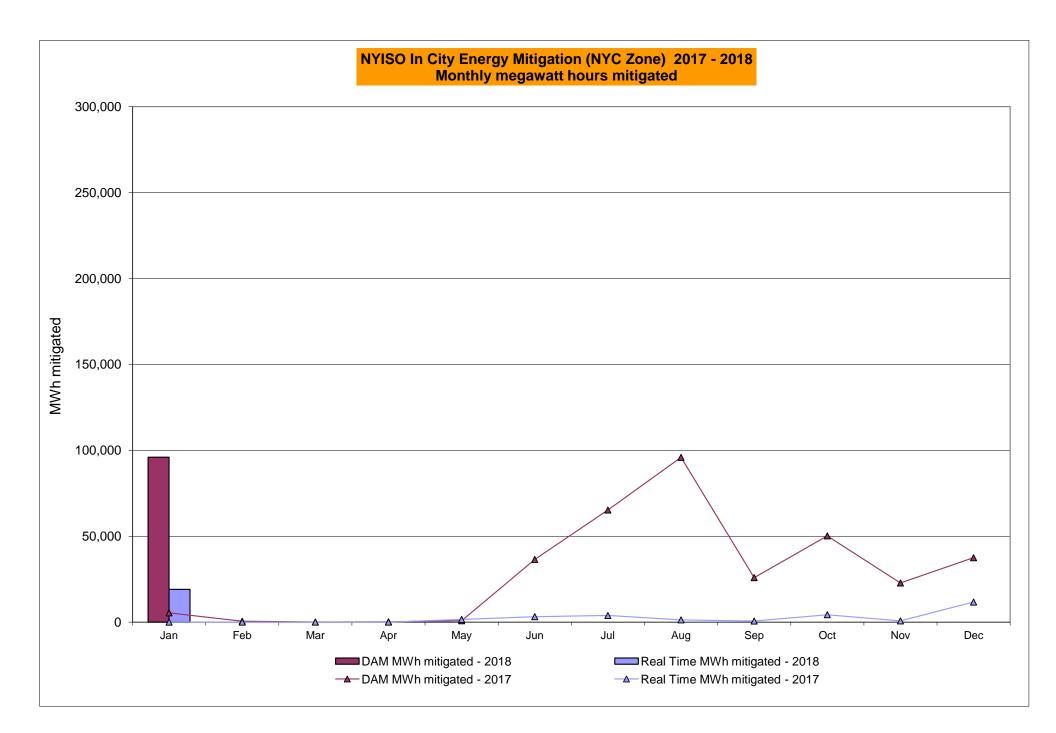


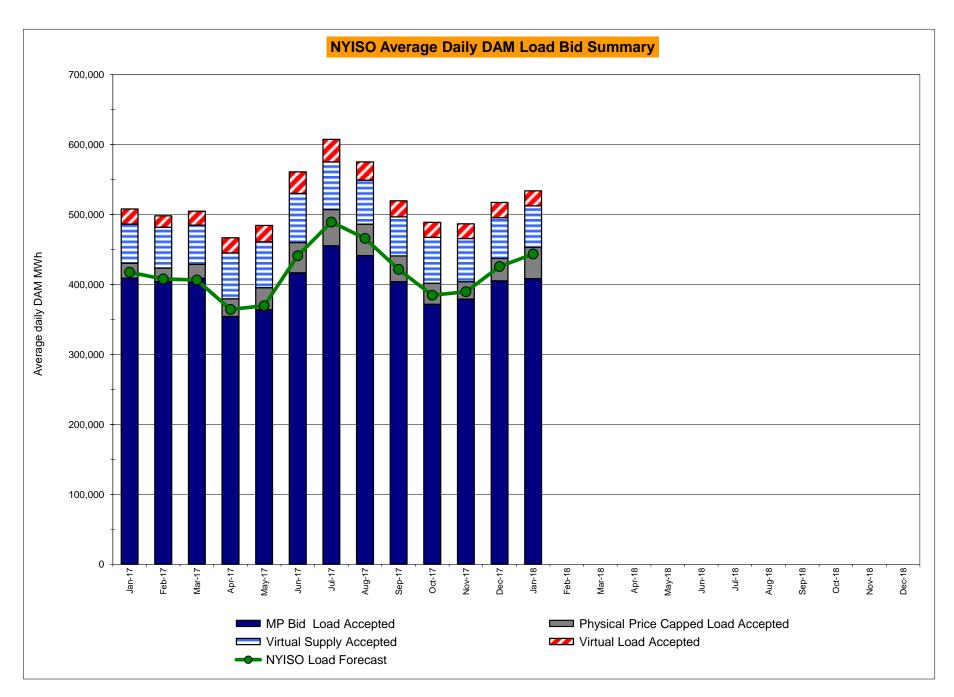


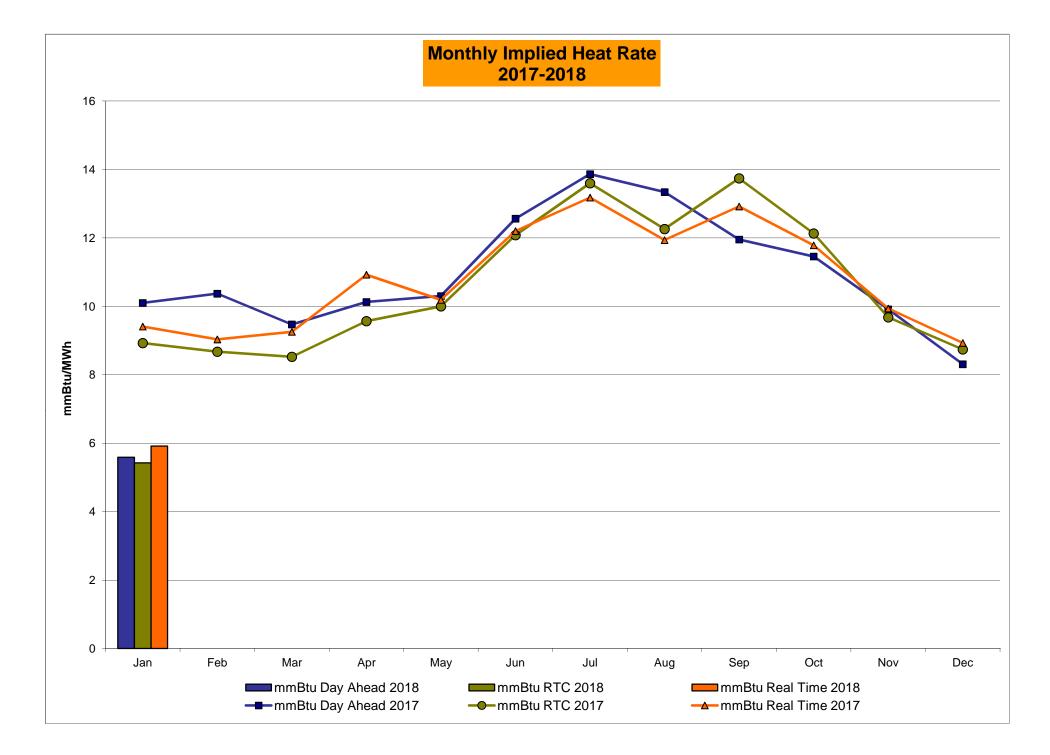
#### NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

							19,110001		<u>-</u>			
<u>2018</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market												
10 Min Spin SENY (GHIJK)	9.93											
10 Min Spin East (F)	9.93											
10 Min Spin West (ABCDE) 10 Min Non Synch SENY (GHIJK)	8.49 6.99											
10 Min Non Synch East (F)	6.99											
10 Min Non Synch West (ABCDE)	6.15											
30 Min SENY (GHIJK)	6.14											
30 Min East (F)	6.14											
30 Min West (ABCDE)	6.14											
Regulation	15.51											
RTC Market												
10 Min Spin SENY (GHIJK)	4.23											
10 Min Spin East (F)	4.23											
10 Min Spin West (ABCDE)	2.43											
10 Min Non Synch SENY (GHIJK)	0.59											
10 Min Non Synch East (F)	0.59											
10 Min Non Synch West (ABCDE)	0.08											
30 Min SENY (GHIJK)	0.08											
30 Min East (F)	0.08											
30 Min West (ABCDE)	0.08											
Regulation NYCA Regulation Movement	15.17											
·	0.26											
Real Time Market												
10 Min Spin SENY (GHIJK)	11.31											
10 Min Spin East (F)	11.31											
10 Min Spin West (ABCDE)	7.24											
10 Min Non Synch SENY (GHIJK) 10 Min Non Synch East (F)	3.61 3.61											
10 Min Non Synch West (ABCDE)	0.85											
30 Min SENY (GHIJK)	0.13											
30 Min East (F)	0.13											
30 Min West (ABCDE)	0.13											
Regulation	19.82											
NYCA Regulation Movement	0.24											
2017	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
Day Ahead Market												
<u>Day Ahead Market</u> 10 Min Spin SENY (GHIJK)	5.01	5.38	5.04	6.31	4.93	4.62	6.41	7.12	5.57	5.37	4.83	4.89
Day Ahead Market  10 Min Spin SENY (GHIJK) 10 Min Spin East (F)	5.01 5.01	5.38 5.38	5.04 5.04	6.31 6.31	4.93 4.93	4.62 4.62	6.41 6.41	7.12 7.12	5.57 5.57	5.37 5.37	4.83 4.83	4.89 4.89
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)	5.01 5.01 4.94	5.38 5.38 5.25	5.04 5.04 4.84	6.31 6.31 5.60	4.93 4.93 4.77	4.62 4.62 4.52	6.41 6.41 5.78	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
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)	5.01 5.01 4.94 4.94	5.38 5.38 5.25 5.25	5.04 5.04 4.84 4.88	6.31 6.31 5.60 5.80	4.93 4.93 4.77 4.83	4.62 4.62 4.52 4.36	6.41 6.41 5.78 6.34	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
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)	5.01 5.01 4.94	5.38 5.38 5.25	5.04 5.04 4.84	6.31 6.31 5.60	4.93 4.93 4.77	4.62 4.62 4.52	6.41 6.41 5.78	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
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)	5.01 5.01 4.94 4.94 4.94	5.38 5.38 5.25 5.25 5.25	5.04 5.04 4.84 4.88 4.88	6.31 6.31 5.60 5.80 5.80	4.93 4.93 4.77 4.83 4.83	4.62 4.62 4.52 4.36 4.36	6.41 6.41 5.78 6.34 6.34	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
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)	5.01 5.01 4.94 4.94 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	6.31 6.31 5.60 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	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 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min East (F)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70	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 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)	5.01 5.01 4.94 4.94 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84	6.31 6.31 5.60 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70	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 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min East (F)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84	6.31 6.31 5.60 5.80 5.80 5.58 5.58 5.58	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70	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 4.82	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 8.61	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00	5.37 5.37 4.89 5.09 5.09 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 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 5.05	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 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 7.00	5.37 5.37 4.89 5.09 5.09 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 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 0.5	6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19	7.12 7.12 6.20 7.07 7.07 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 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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)	5.01 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 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 9.05 0.71 0.71 0.08 0.17	6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89	7.12 7.12 6.20 7.07 7.07 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 7.00	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 9.57	4.83 4.83 4.50 4.43 4.43 4.39 4.39 4.39 7.77	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 SENY (GHIJK)	5.01 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 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17	6.31 6.31 5.60 5.80 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87	7.12 7.12 6.20 7.07 7.07 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 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 8.57 0.99 0.99 0.29 0.09	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 East (F)	5.01 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 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18	7.12 7.12 6.20 7.07 7.07 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 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 8.57 0.99 0.99 0.29 0.09 0.09	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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)	5.01 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 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94	7.12 7.12 6.20 7.07 7.07 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 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 9.57 0.99 0.99 0.29 0.09 0.09 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	5.01 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 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.04 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93	7.12 7.12 6.20 7.07 7.07 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 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 8.57 0.99 0.99 0.29 0.09 0.09 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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)	5.01 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 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.59 0.26 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94	7.12 7.12 6.20 7.07 7.07 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 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 9.57 0.99 0.99 0.29 0.09 0.09 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 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)	5.01 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 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93	7.12 7.12 6.20 7.07 7.07 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 7.00 0.61 0.61 0.30 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 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  Regulation  NYCA Regulation Movement	5.01 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 0.00 0.00 0.00 9.21	5.38 5.38 5.25 5.25 5.25 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	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51	7.12 7.12 6.20 7.07 7.07 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 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 6.86	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min 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 SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  Regulation  NYCA Regulation Movement  Real Time Market	5.01 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 0.00 0.00 0.00 9.21 0.27	5.38 5.38 5.25 5.25 5.25 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	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 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 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 6.86 0.26	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  Regulation  NYCA Regulation Movement	5.01 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 0.00 0.00 0.00 9.21	5.38 5.38 5.25 5.25 5.25 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	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51	7.12 7.12 6.20 7.07 7.07 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 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 6.86	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 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)	5.01 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 0.00 0.00 0.00 9.21 0.27	5.38 5.38 5.25 5.25 5.25 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	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	7.12 7.12 6.20 7.07 7.07 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 6.86 0.26	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 7.00 0.24	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 (GHIJK)  30 Min SENY (GHIJK)  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)	5.01 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 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 8.19 0.59 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16 0.16 0.16 0.16 0.17 0.17 0.25 0.18 0.18 0.18 0.19	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 6.09 0.23	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23	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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.08 0.08 0.08 0.08 0.08 0.26	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)	5.01 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 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 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	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.07 0.17 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48	7.12 7.12 6.20 7.07 7.07 6.15 6.15 6.15 6.15 6.17 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	5.57 5.57 5.14 5.52 5.52 5.10 5.10 5.10 7.00 0.61 0.61 0.30 0.21 0.21 0.16 0.15 0.15 5.52 0.24 1.59 0.90 0.59	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.09 0.08 0.08 0.08 0.08 0.08 0.0	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  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 West (ABCDE)  10 Min Non Synch SENY (GHIJK)	5.01 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 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.15 0.16	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.06 0.06 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65	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	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 0.15 0.15 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min 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 East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)	5.01 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 0.00 0.00 0.00 9.21 0.27 3.29 3.29 2.71 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.15 0.16 0.16 0.17 0.17 0.18 0.18 0.19 0.25	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98	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	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 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 9.21 0.27 3.29 3.29 2.71 0.00 0.00 0.00 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20 0.26 0.25 0.25	4.93 4.93 4.77 4.83 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97	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 3.12	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 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80  1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	5.01 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 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.07 0.17 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 0.00 0.00 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 0.25	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97	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 3.12	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 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.08 0.08 0.08 0.08 0.08 0.26 1.96 1.16 0.18 0.11 0.11	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80  1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch Bast (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	5.01 5.01 4.94 4.94 4.92 4.92 4.92 4.92 9.34 1.53 1.53 1.06 0.06 0.00 0.00 0.00 0.00 0.00 9.21 0.27 3.29 3.29 2.71 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.71 0.08 0.17 0.17 0.00 0.00 0.00 0.00 7.15 0.20 1.73 1.73 0.48 0.22 0.22 0.00 0.00 0.00 0.00 0.00 7.15 0.20	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 8.30	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03 0.03 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 0.02 0.02	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.97 0.97 8.37	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 3.12 10.31	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 0.15 5.52 0.24 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.09 0.09 0.08 0.08 0.08 0.08	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  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 SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)	5.01 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 0.00	5.38 5.38 5.25 5.25 5.25 5.20 5.20 5.20 5.20 5.20	5.04 5.04 4.84 4.88 4.88 4.84 4.84 4.84 4.84 8.05 0.71 0.07 0.17 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 0.00 0.00 0.00 0.00 0.00	6.31 6.31 5.60 5.80 5.58 5.58 5.58 5.58 7.93 1.81 1.81 0.95 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.125 4.34 4.34 2.23 1.20 1.20 0.25 0.25 0.25 0.25	4.93 4.93 4.77 4.83 4.68 4.67 4.67 4.67 6.11 0.43 0.23 0.05 0.05 0.04 0.04 0.04 0.04 5.43 0.25 1.19 1.19 0.79 0.06 0.03 0.03 0.03 0.03	4.62 4.62 4.52 4.36 4.36 4.32 4.32 4.32 4.32 7.00 0.49 0.46 0.24 0.05 0.02 0.02 0.02 0.02 0.02 6.09 0.23 1.43 1.40 1.00 0.15 0.11 0.04 0.07 0.04 0.07	6.41 6.41 5.78 6.34 6.34 5.72 5.70 5.70 5.70 8.19 2.79 2.77 1.72 1.89 1.87 1.18 0.94 0.93 0.93 7.51 0.23 4.73 4.72 2.51 3.49 3.48 1.65 0.98 0.97 0.97	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 3.12	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 1.59 1.59 0.90 0.59 0.21 0.21 0.21 0.21 0.21 0.21	5.37 5.37 4.89 5.09 5.09 4.82 4.82 4.82 4.82 8.57 0.99 0.99 0.29 0.09 0.08 0.08 0.08 0.08 0.08 0.26 1.96 1.16 0.18 0.11 0.11	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	4.89 4.89 4.73 4.49 4.43 4.43 4.43 4.43 13.80 1.92 1.92 1.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00

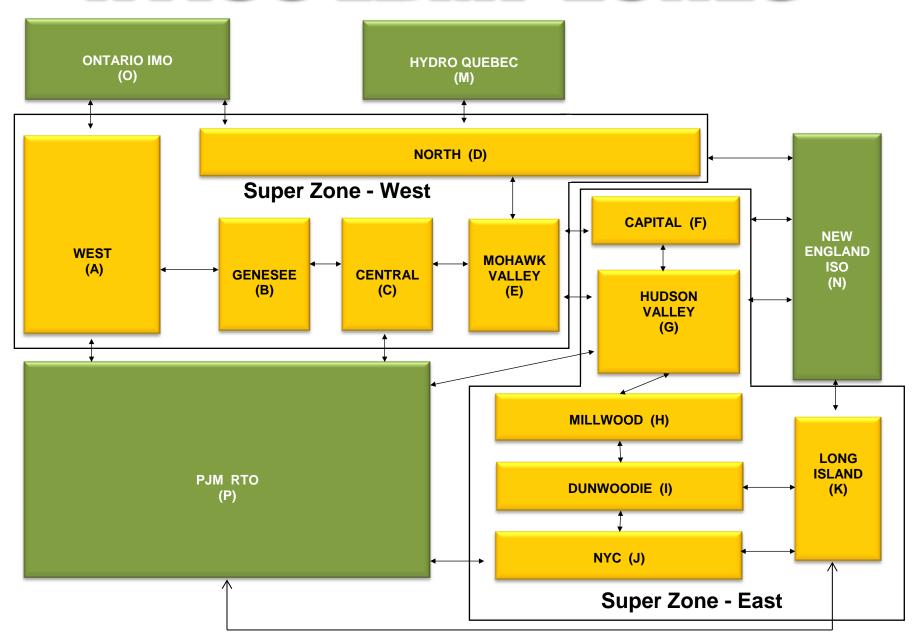








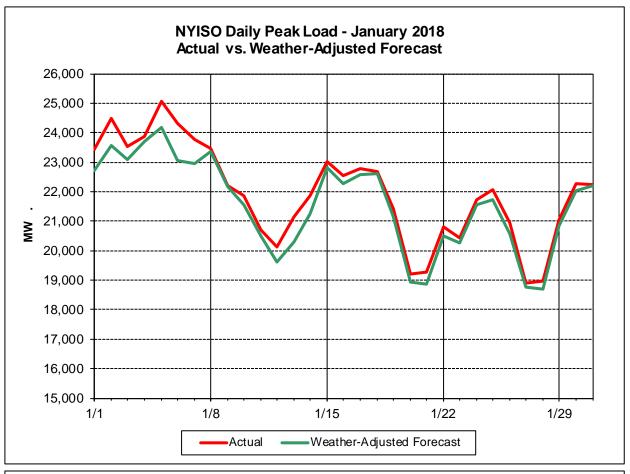
# NYISO LBMP ZONES

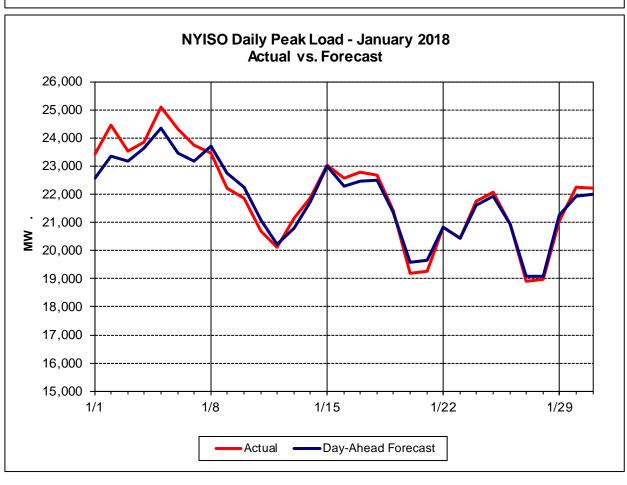


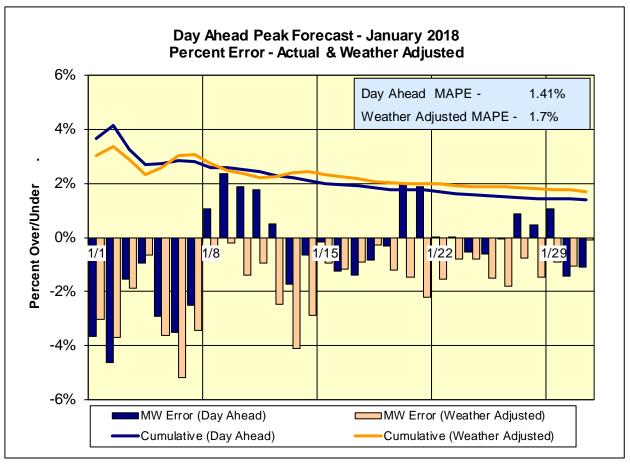
#### **Billing Codes for Chart C**

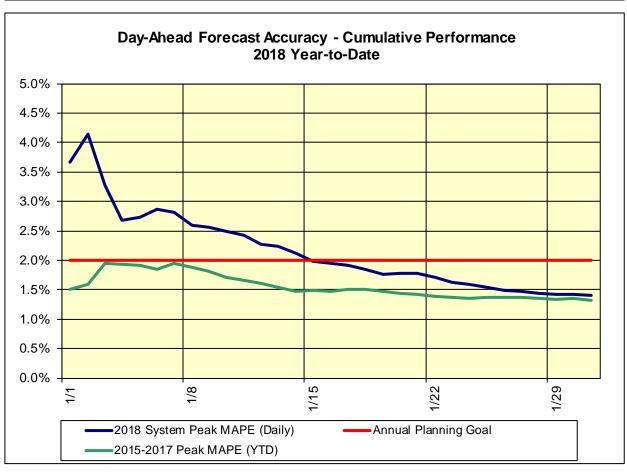
Chart - C Category Name	<b>Billing Code</b>	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost 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

Market Mitigation and Analysis Prepared: 2/8/2018 1:39 PM









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

Filing Date	Filing Summary	Docket	Order Date	Order Summary
03/27/2017	NYISO filing re: motion to terminate annual informational reporting obligation concerning broader regional markets	ER08-1281-013	01/29/2018	Order granted request to terminate reporting requirements
08/24/2017	NYISO filing re: answer to the Green Power request for reconsideration of FERC's 07/10/2017 denial of its out-of-time motion to intervene and request for rehearing of the Commission's acceptance of a Notice of Cancellation of the SGIA among the NYISO, Niagara Mohawk Power Corporation and Green Power	ER17-1624-002	01/26/2018	Order denied the Green Power Energy requests for reconsideration, rehearing and clarification
08/31/2017	NYISO filing of a motion to intervene and protest re: Green Power Energy petition for limited tariff waiver concerning requirements for an extension of the commercial operation date of its wind project	ER17-2275-000	01/26/2018	Order denied Green Power Energy request for tariff waiver
12/28/2017	NYISO, et. al. filing re: request for extension of time to answer the NJBPU complaint v. PJM, NYISO, Consolidated Edison, Linden VFT, Hudson Transmission Partners and NYPA	EL18-54-000	01/03/2018	Notice granted an extension of time up to and including 02/23/2018 to answer the NJBPU complaint
01/02/2018	NYISO filing re: answer to Entergy Nuclear's request for clarification/rehearing of the 11/16/2017 Order concerning NYISO's RMR compliance filing	ER16-120-001 ER6-120-003 EL15-37-003		
01/02/2018	NYISO filing re: supplement to the 12/28/2017 motion requesting an extension to answer the complaint of the NJ Board of Public Utilities	EL18-54-000	01/03/2018	Notice granted an extension of time up to and including 02/23/2018 to answer the NJBPU complaint
01/04/2018	NYISO filing re: request for tariff waiver of bid cap restrictions in the real-time and day-ahead markets	ER18-604-000	01/12/2018	Order granted waiver request for the time periods requested
01/11/2018	NYISO motion to intervene and comments re: the NYSRC filing of an 18.2% IRM for the 2018-19 Capability Year	ER18-524-000		
01/12/2018	NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 12/31/2017	PSC Matter No. 10-02007		
01/12/2018	NYISO filing of an annual report re: demand side management programs	ER01-3001-000		

01/16/2018	NYISO comments to the EPA re: repeal of carbon pollution control emission guidelines for existing stationary sources: electric utility generating units	Docket ID No. EPA-HQ-OAR- 2017-0355	
01/16/2018	NYISO compliance filing re: revisions to certain aspects of the generator deactivation process (RMR)	ER16-120-005	
01/17/2018	NYISO filing re: 4 <sup>th</sup> Quarter 2017 Electric Quarterly Report	ER02-2001-000	
01/31/2018	NYISO response to NYSPSC's request for confidential and proprietary information re: input data files in the GE MAPS for the 2017 CARIS 1 Study	PSC Case No. 00-E-1380	