

# **Monthly Report**

**April 2019** 



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## Operations Performance Metrics Monthly Report









### **April 2019 Report**

## Operations & Reliability Department New York Independent System Operator



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### **April 2019 Operations Performance Highlights**

- Peak load of 18,777 MW occurred on 04/01/2019 HB 20
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 3.5 hours of Thunder Storm Alerts were declared
- 1 hour of NERC TLR level 3 curtailment
- NYISO achieved a wind energy record of 1,651MW on 04/26/2019 HB20 providing 10% of the state's electrical demand in that hour.
- On 04/15/2019 the series reactor on the Erie East-South Ripley 230kV (#69) line was placed in service.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.12	\$5.18
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.11)	\$0.19
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.03	(\$0.01)
Total NY Savings	\$0.04	\$5.36
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.58	\$1.94
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.04	\$0.23
Total Regional Savings	\$0.62	\$2.17

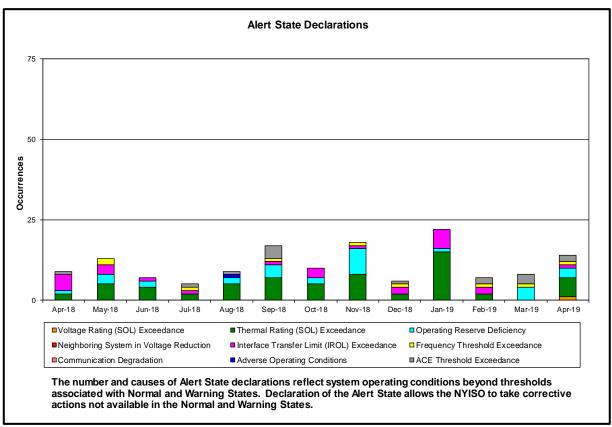
- Statewide uplift cost monthly average was (\$0.35)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and changes from the end of the prior Summer Capability period.

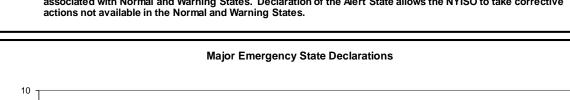
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
May 2019 Spot Price	\$1.14	\$5.43	\$13.92	\$5.98
October 2018 Spot Price	\$2.52	\$8.84	\$8.84	\$6.57
Delta	(\$1.38)	(\$3.41)	\$5.08	(\$0.59)

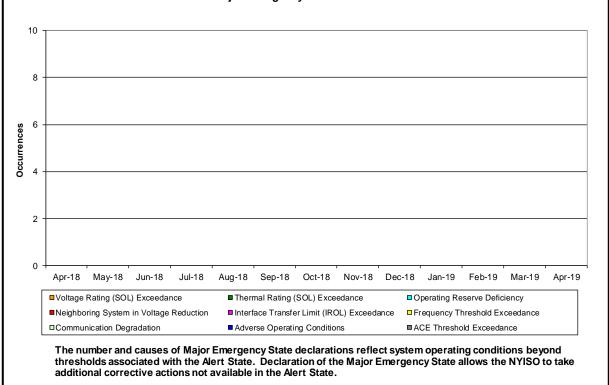
Price changes from October 2018 to May 2019 are driven by changes in supply as
well as Capability Year inputs such as demand curve parameters, Locational Capacity
Requirements, the Installed Reserve Margin and the load forecast.



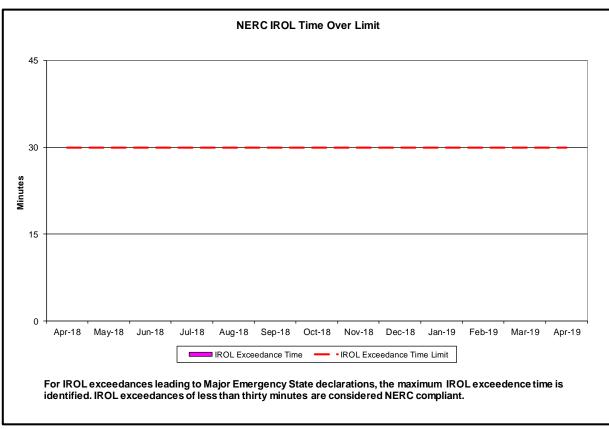
#### **Reliability Performance Metrics**

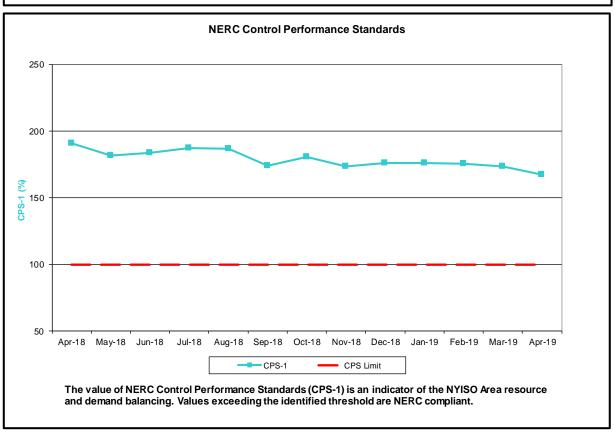




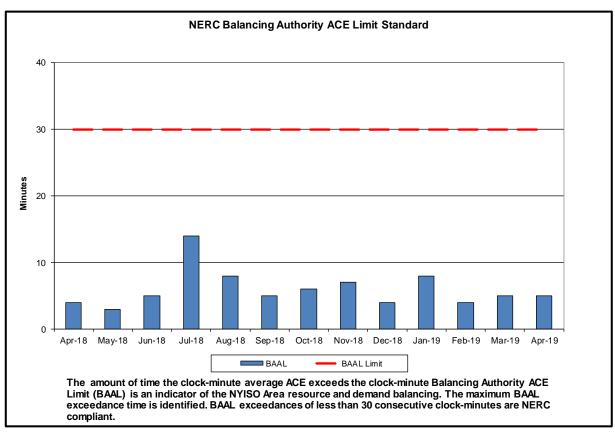


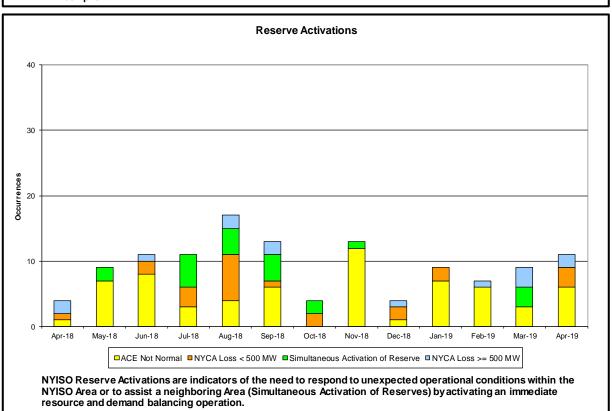




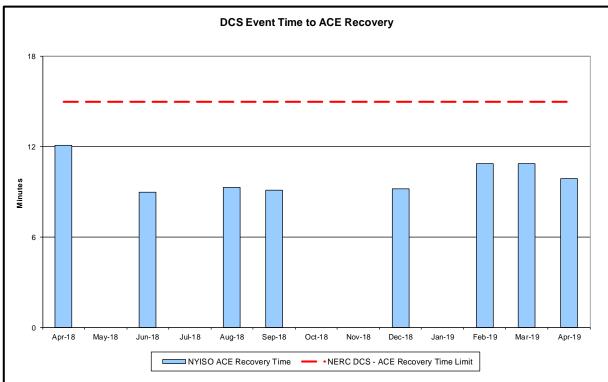




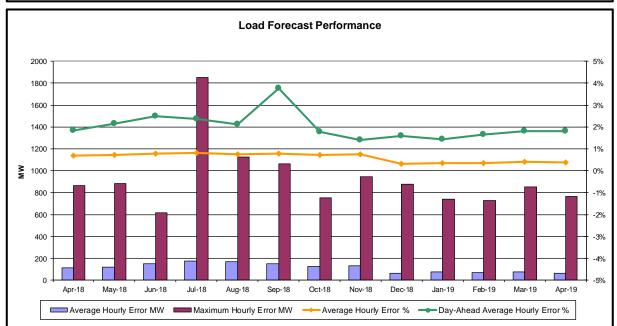








For NYISO initiated Reportable Disturbances, the maximum ACE recovery time is identified. Recovery times of less than 15 minutes are considered NERC compliant.

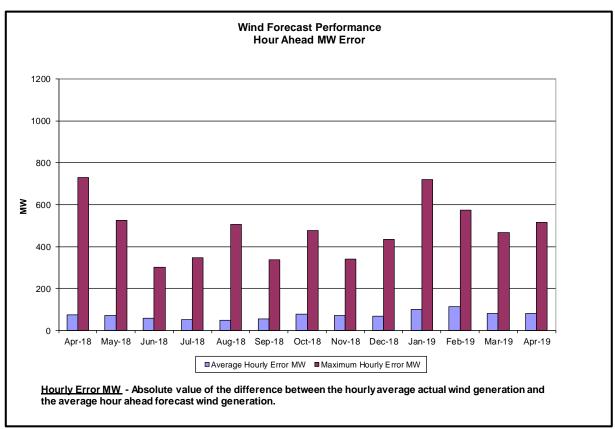


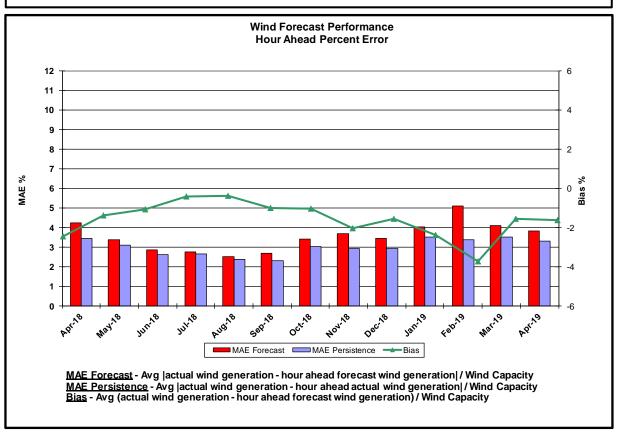
<u>Hourly Error MW</u> - Absolute value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.

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

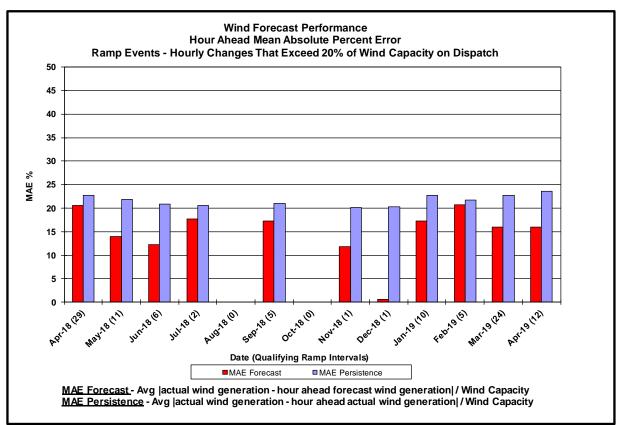
<u>Day-Ahead Average Hourly Error %</u> - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.

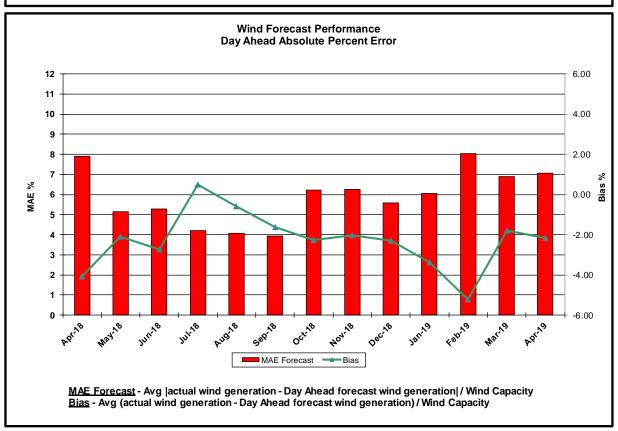




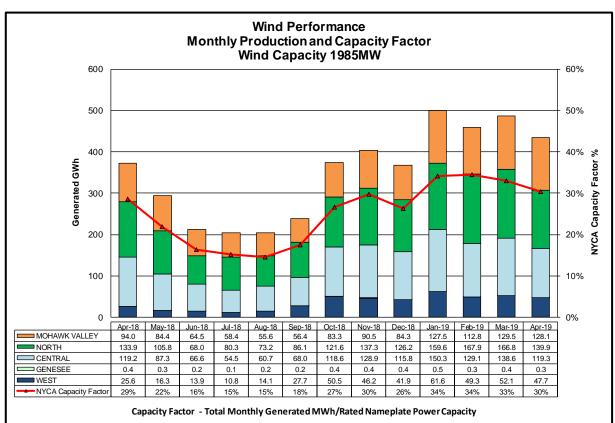


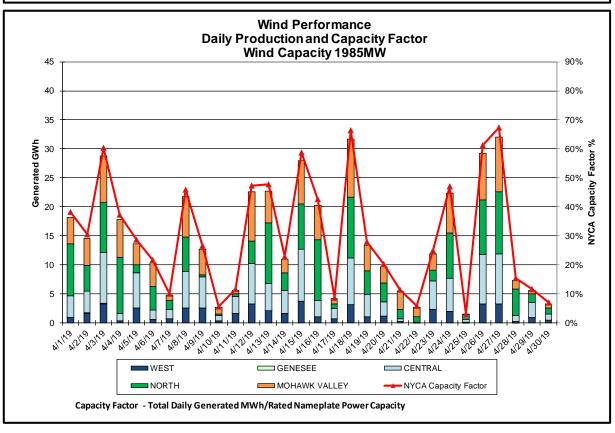




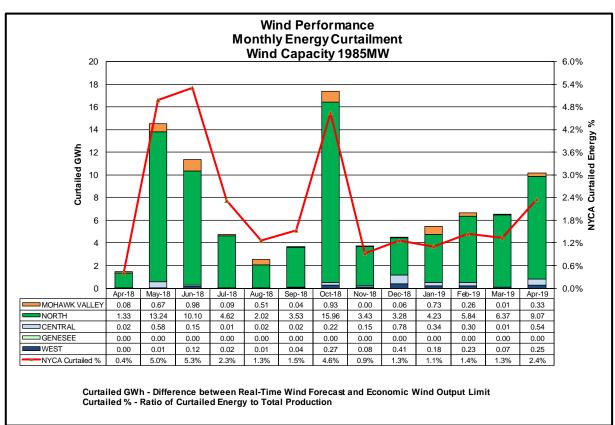


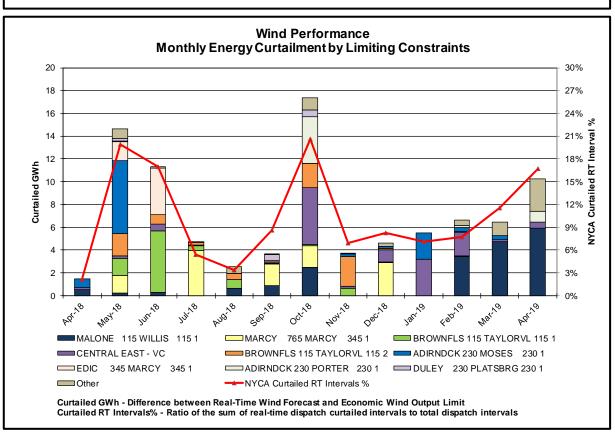




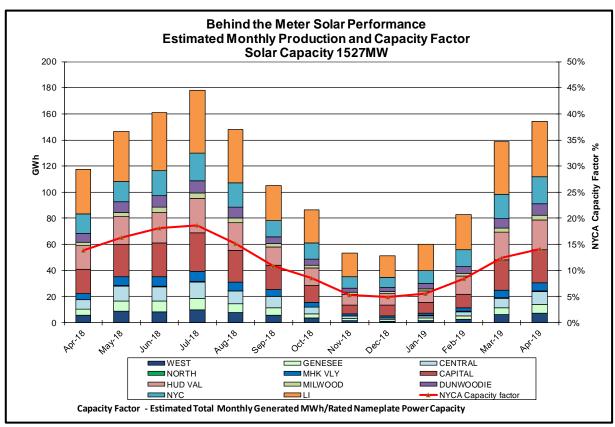


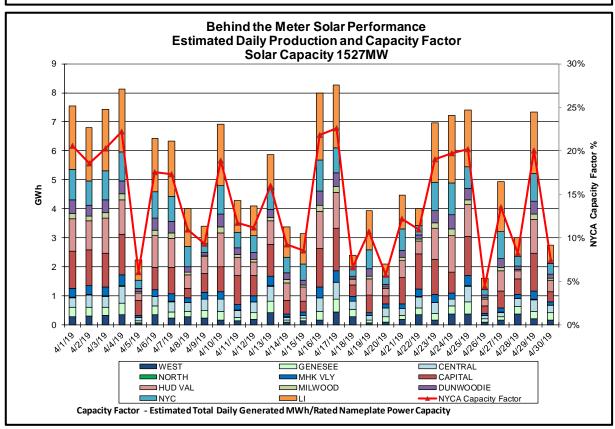




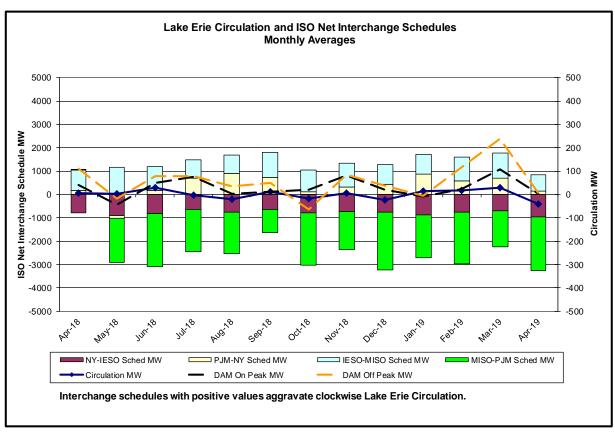


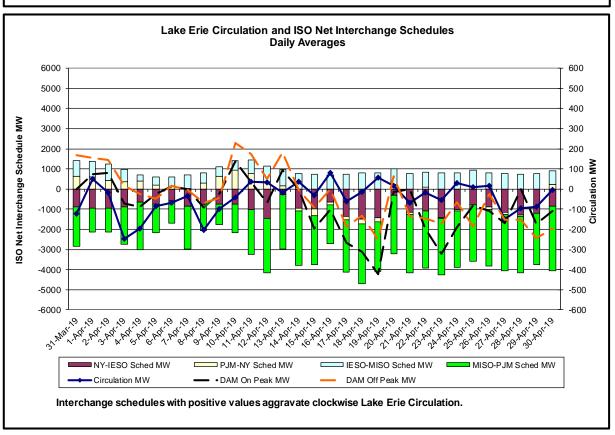






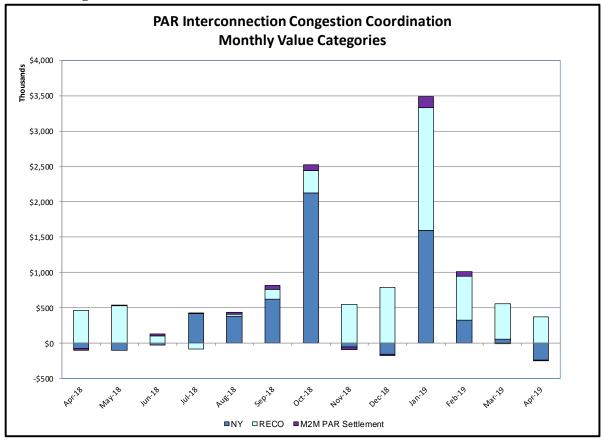


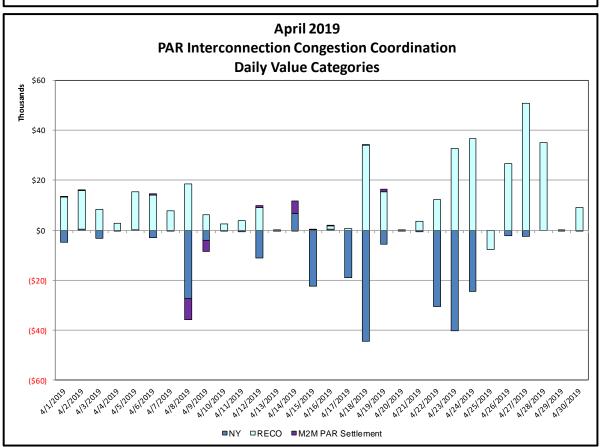






#### **Broader Regional Market Performance Metrics**







#### 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

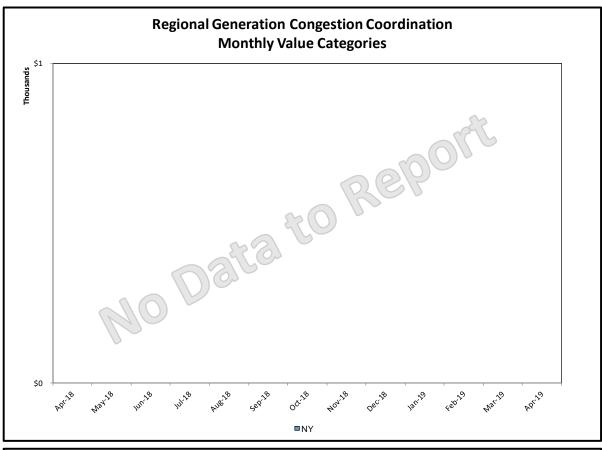
of RECO over Ramapo 5018.

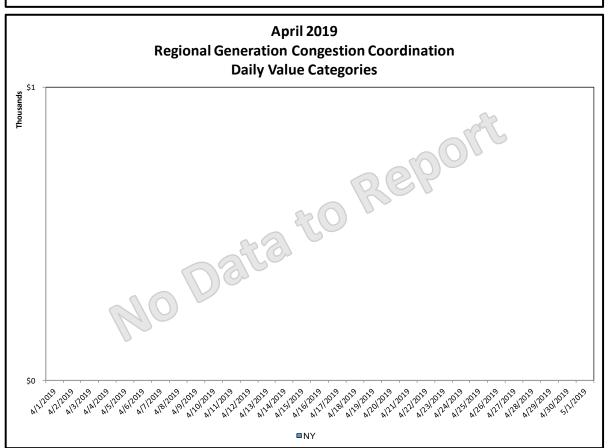
M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017

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.







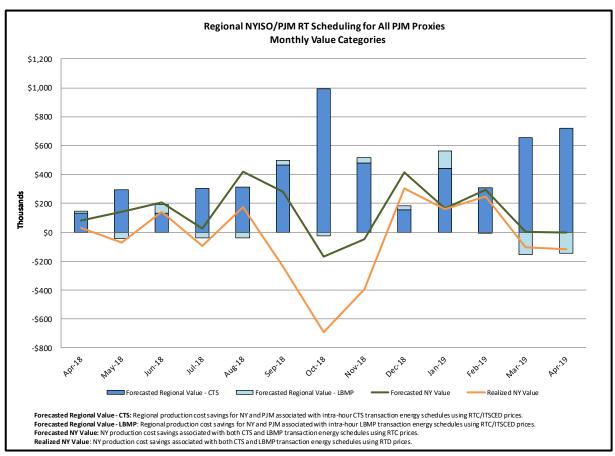


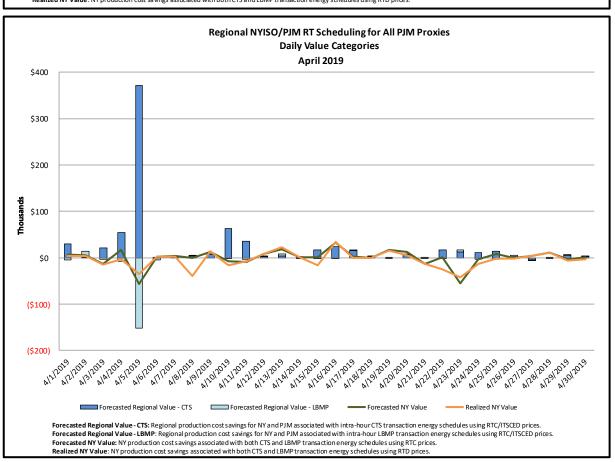
#### **Regional Generation Congestion Coordination**

<u>Category</u> NY

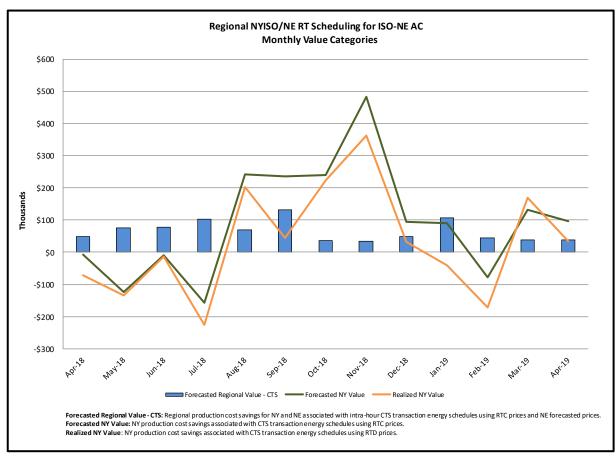
<u>Description</u>
NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient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

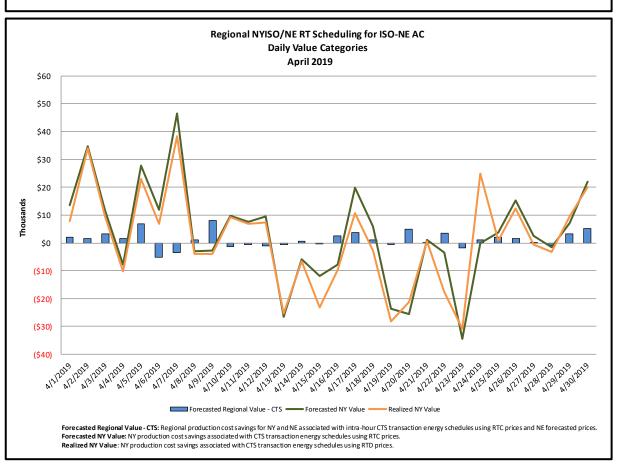






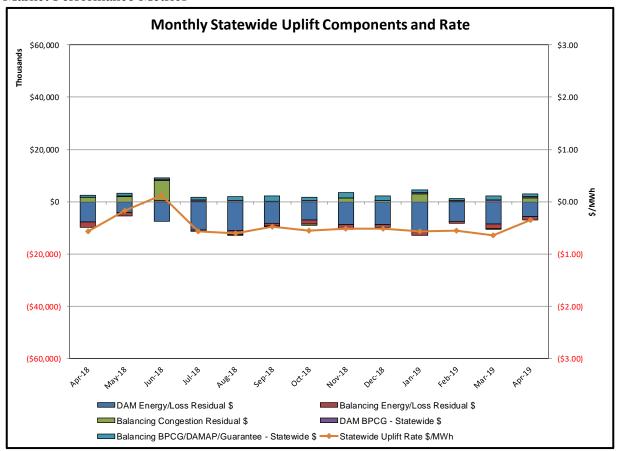




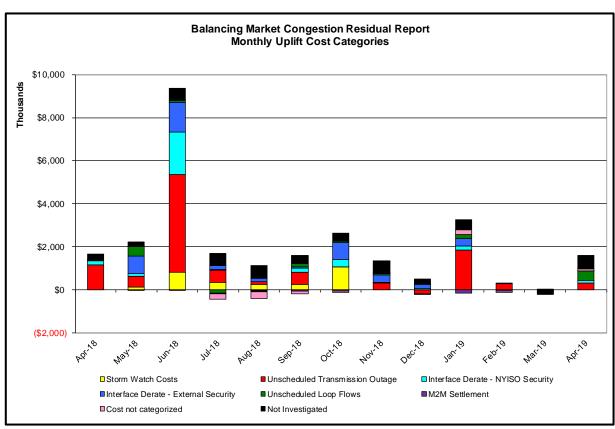


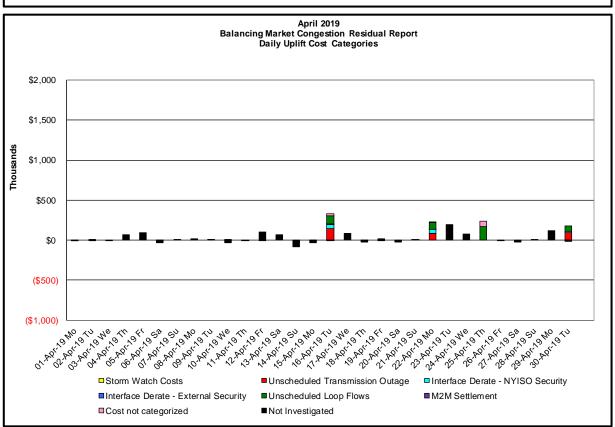


#### Market Performance Metrics











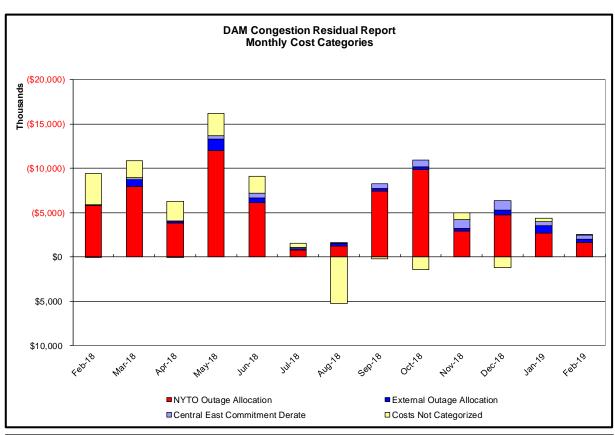
Day's in	vestigated in April:16,2	2,25,30	
Event	Date (yyyymmdd)	Hours	Description
	4/16/2019	0,4-19	Extended Outage Dunwoodie-Shore Rd 345kV (#Y50)
	4/16/2019	9,10	Derate Central East
	4/16/2019	0,5-7,9-16	Derate Patnode-Willis 230kV (#WPN-1)
	4/16/2019	15	PJM_AC-NY Scheduling Limit
	4/16/2019	5-7,9,10	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	4/16/2019	6,10,11,16-19	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West 115kV
	4/22/2019	8-12,14	Forced Outage Long Road-Gardenville 115kV (#180)
	4/22/2019	10	NYCA DNI Ramp Limit
	4/22/2019	8,14,15,20	Derate Central East
	4/22/2019	18	NE_AC-NY Scheduling Limit
	4/22/2019	10	PJM_AC DNI Ramp Limit
	4/22/2019	8,14	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	4/22/2019	8-12,14	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West 115kV
	4/25/2019	6,7,9-14,16,17	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West 115kV
	4/30/2019	7,12,13	Forced Outage Long Road-Grand Island 115kV (#182)
	4/30/2019	21,22	Extended Outage Langner Road-Gardenville 115kV (#180)
	4/30/2019	13	NYCA DNI Ramp Limit
	4/30/2019	12,13	Derate Niagara Blvd-packard 115kV (#193) for I/o Packard-Sawyer 230kV (#78)
	4/30/2019	15	IESO_AC DNI Ramp Limit
	4/30/2019	7,16,21	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West 115kV

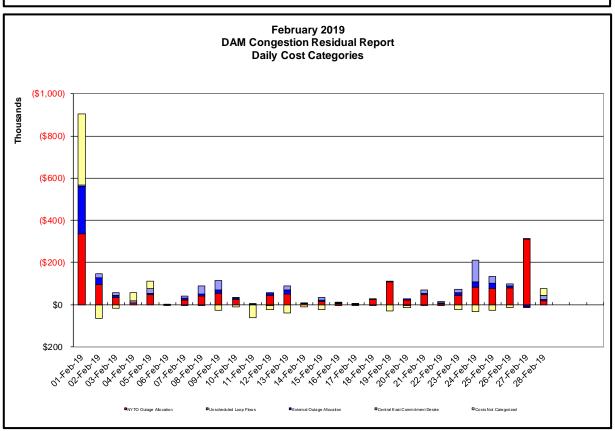
<u>Category</u> Storm Watch	Cost Assignment Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	Event Examples TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Interface Derate - 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	

- investigated.

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



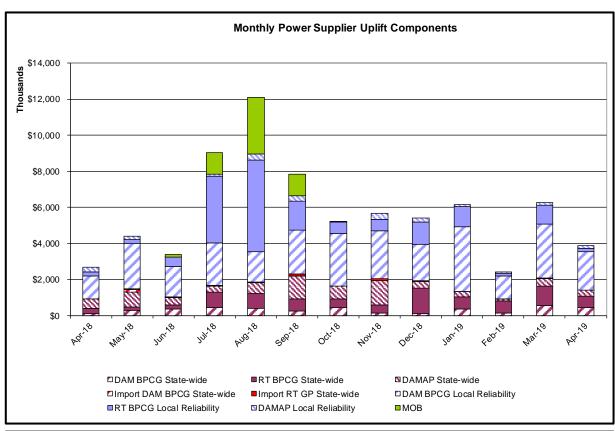


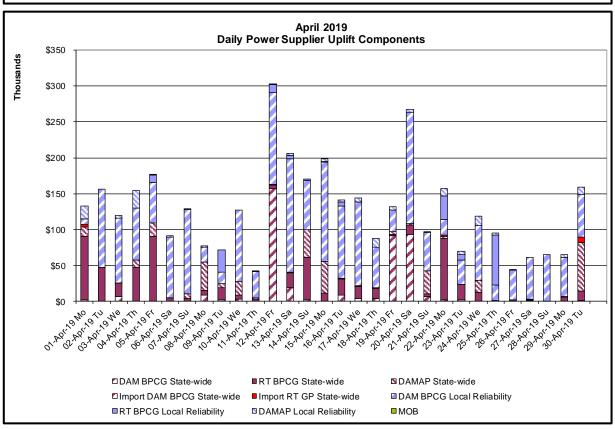




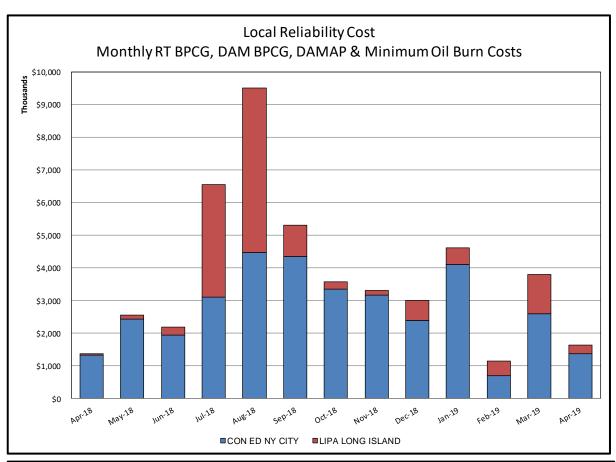
Day	-Ahead Market Co	ngestion Residual Categories	
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	Events Types Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples  DAM scheduled outage for equipment modeled inservice for the TCC 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.	

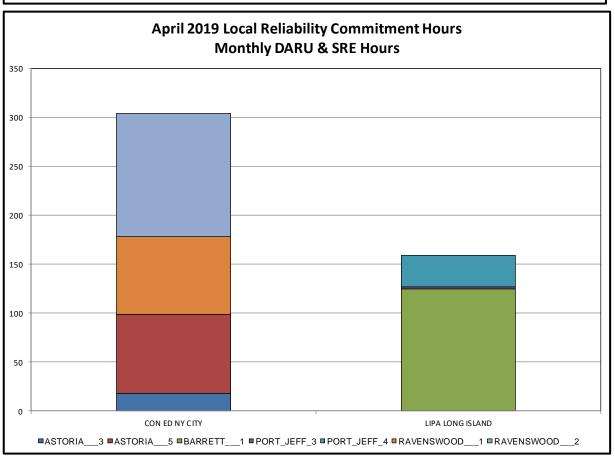




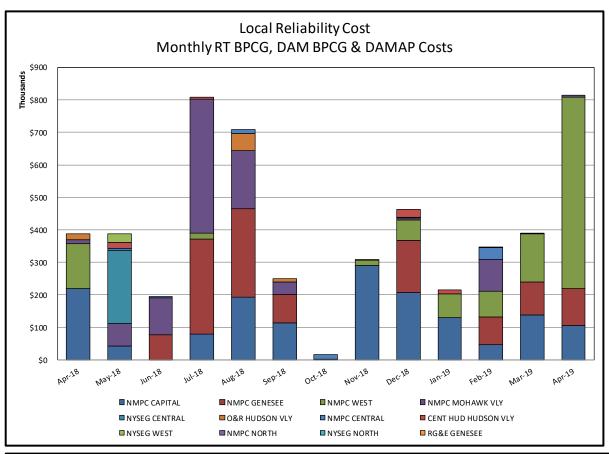


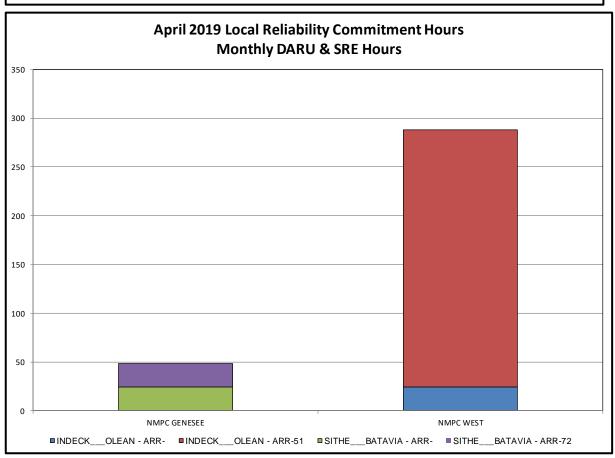




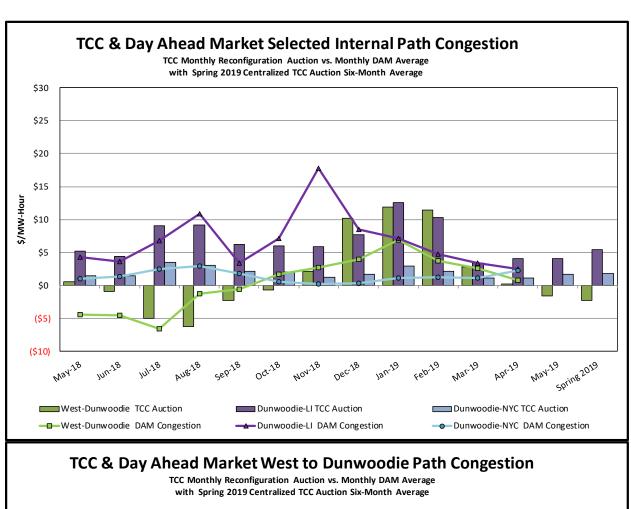


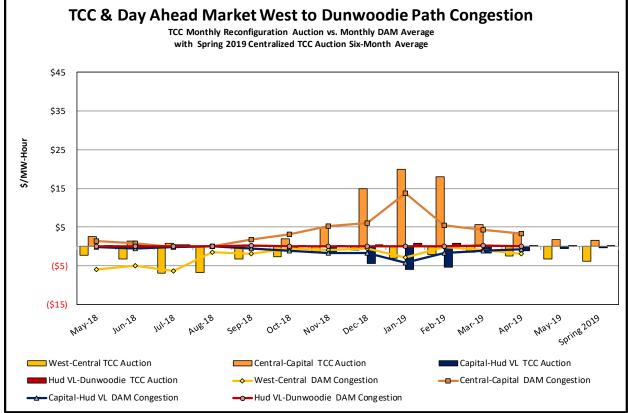




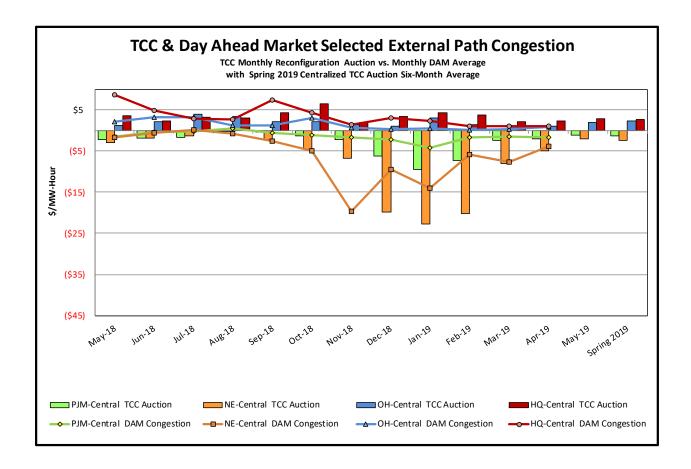




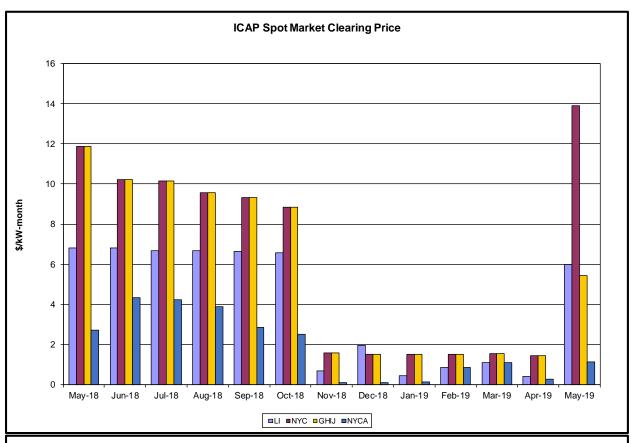


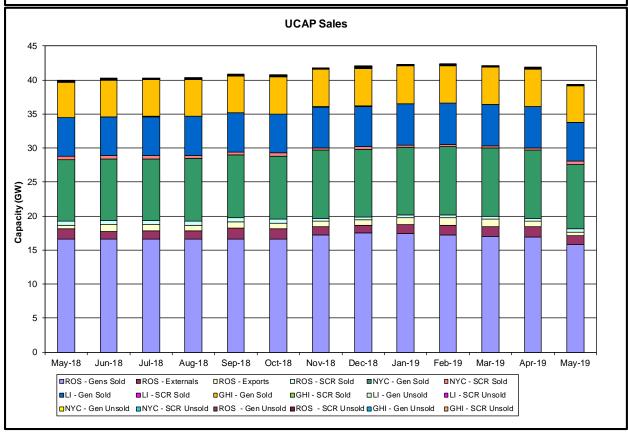








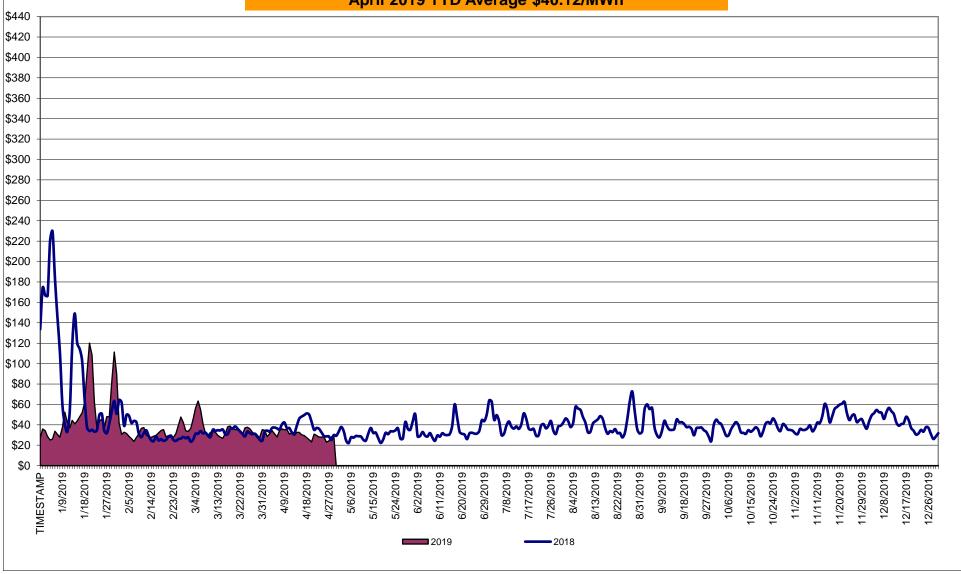




## Market Performance Highlights April 2019

- LBMP for April is \$28.01/MWh; lower than \$34.91/MWh in March 2019 and \$35.00/MWh in April 2018.
  - Day Ahead and Real Time Load Weighted LBMPs are lower compared to March.
- April 2019 average year-to-date monthly cost of \$40.12/MWh is a 27% decrease from \$54.82/MWh in April 2018.
- Average daily sendout is 371 GWh/day in April; lower than 411 GWh/day in March 2019 and 390 GWh/day in April 2018.
- Natural gas prices were lower and distillate prices were higher compared to the previous month.
  - Natural Gas (Transco Z6 NY) was \$2.37/MMBtu, down from \$2.93/MMBtu in March.
  - Natural gas prices are down 15.1% year-over-year.
  - Jet Kerosene Gulf Coast was \$14.63/MMBtu, up from \$14.08/MMBtu in March.
  - Ultra Low Sulfur No.2 Diesel NY Harbor was \$14.72/MMBtu, up from \$14.18/MMBtu in March.
  - Distillate prices are down 1.5% year-over-year.
- Uplift per MWh is higher compared to the previous month.
  - Uplift (not including NYISO cost of operations) is (\$0.15)/MWh; higher than (\$0.33)/MWh in March.
    - Local Reliability Share is \$0.20/MWh, lower than \$0.31/MWh in March.
    - Statewide Share is (\$0.35)/MWh, higher than (\$0.64)/MWh in March.
  - TSA \$ per NYC MWh is \$0.01/MWh.
- Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than March.

## Daily NYISO Average Cost/MWh (Energy & Ancillary Services)\* 2018 Annual Average \$44.92/MWh April 2018 YTD Average \$54.82/MWh April 2019 YTD Average \$40.12/MWh

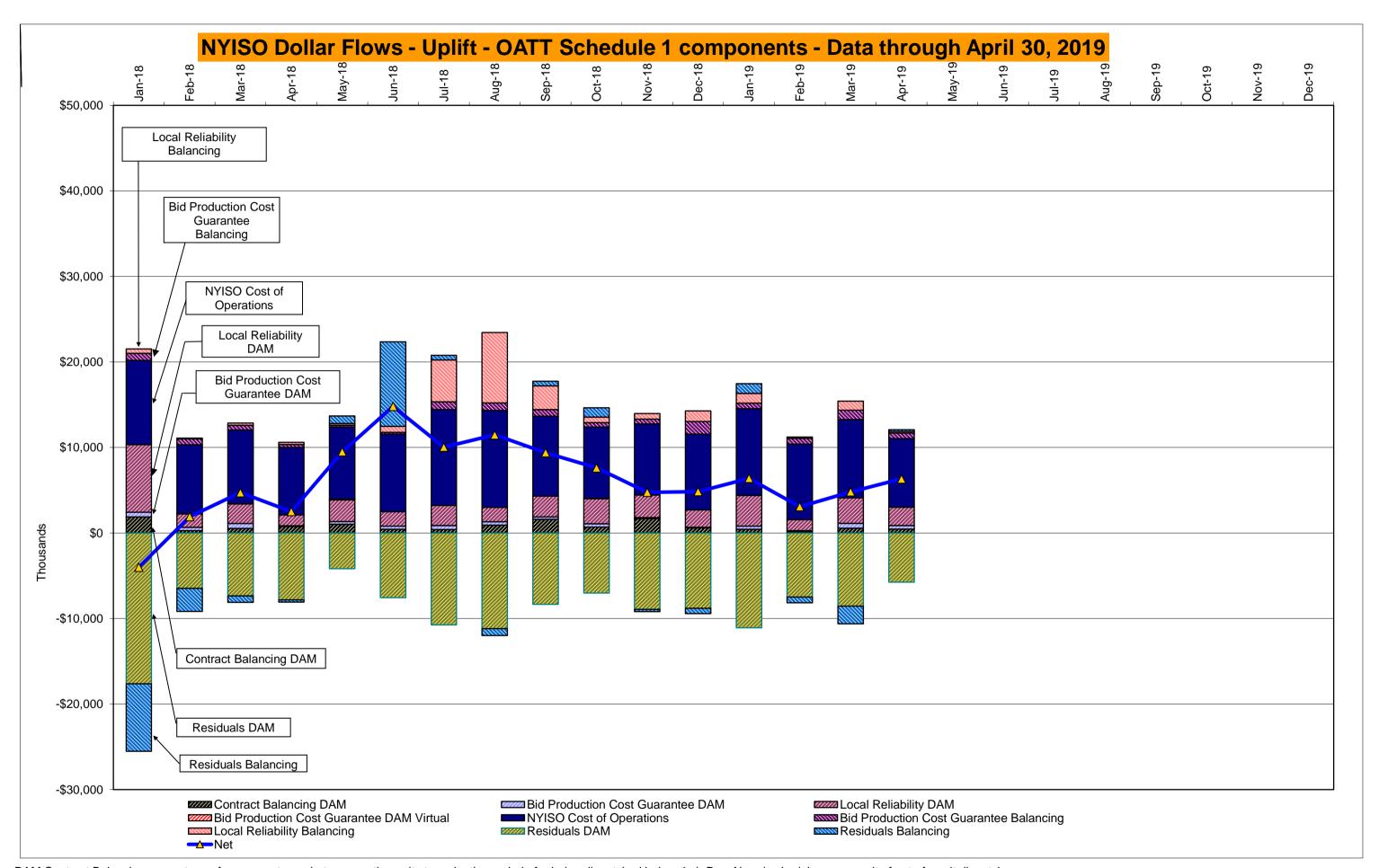


<sup>\*</sup> Excludes ICAP payments.

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

2019	<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>
LBMP	50.93	33.51	34.91	28.01								
NTAC	0.51	0.69	0.98	1.16								
Reserve	0.54	0.51	0.55	0.63								
Regulation	0.13	0.11	0.10	0.33								
NYISO Cost of Operations	0.68	0.68	0.69	0.69								
FERC Fee Recovery	0.08	0.09	0.09	0.10								
Uplift	(0.25)	(0.44)	(0.33)	(0.15)								
Uplift: Local Reliability Share	0.32	0.11	0.31	0.20								
Uplift: Statewide Share	(0.57)	(0.55)	(0.64)	(0.35)								
Voltage Support and Black Start _	0.37	0.37	0.38	0.38								
Avg Monthly Cost	52.99	35.51	37.38	31.16								
Avg YTD Cost	52.99	44.93	42.54	40.12								
TSA \$ per NYC MWh	0.00	0.00	0.01	0.01								
2018	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	August	September	<u>October</u>	November	<u>December</u>
LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	40.31
NTAC	0.71	0.58	0.88	1.09	0.88	1.00	0.93	0.72	0.40	0.36	1.18	0.93
Reserve	0.92	0.65	0.64	0.81	0.68	0.57	0.49	0.51	0.52	0.80	0.66	0.54
Regulation	0.15	0.15	0.16	0.12	0.14	0.16	0.09	0.09	0.09	0.16	0.17	0.17
NYISO Cost of Operations	0.65	0.65	0.66	0.65	0.66	0.67	0.67	0.66	0.66	0.63	0.63	0.63
FERC Fee Recovery	0.08	0.10	0.09	0.10	0.09	0.09	0.06	0.06	0.08	0.09	0.09	0.08
Uplift	(0.92)	(0.50)	(0.31)	(0.45)	0.05	0.30	(0.13)	(0.02)	(0.11)	(0.30)	(0.27)	(0.29)
Uplift: Local Reliability Share	0.59	0.14	0.19	0.12	0.22	0.18	0.44	0.59	0.37	0.27	0.25	0.23
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)	(0.57)	(0.17)	0.12	(0.57)	(0.61)	(0.48)	(0.56)	(0.52)	(0.52)
Voltage Support and Black Start _	0.40	0.41	0.42	0.41	0.42	0.42	0.42	0.42	0.42	0.40	0.40	0.40
Avg Monthly Cost	101.54	35.87	32.45	37.74	31.70	35.73	42.12	45.01	40.76	38.00	46.01	42.78
Avg YTD Cost		70.05	60.06	E4 00	E0 20	47.70	46.64	46.07	45.75	4E 02	45 44	44.92
	101.54	72.85	60.06	54.82	50.20	47.70	40.04	46.37	45.75	45.03	45.11	44.92

<sup>\*</sup> Excludes ICAP payments. Market Mitigation and Analysis Prepared: 5/8/2019 11:49 AM



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches.

DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart.

DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

#### **NYISO Markets Transactions**

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<u>2019</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Day Ahead Market MWh	15,299,458	13,391,383	13,527,834	11,811,029								
DAM LSE Internal LBMP Energy Sales	57%	57%	59%	59%								
DAM External TC LBMP Energy Sales	6%	5%	3%	1%								
DAM Bilateral - Internal Bilaterals	29%	30%	30%	31%								
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	5%	5%	5%	5%								
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	2%								
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%								
Balancing Energy Market MWh	-322,442	-323,188	-261,217	-218,482								
Balancing Energy LSE Internal LBMP Energy Sales	-120%	-126%	-138%	-178%								
Balancing Energy External TC LBMP Energy Sales	65%	67%	82%	113%								
Balancing Energy Bilateral - Internal Bilaterals	-4%	-1%	-3%	2%								
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	0%	0%								
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	3%	7%	6%	7%								
Balancing Energy Bilateral - Wheel Through Bilaterals	-45%	-47%	-47%	-44%								
Transactions Summary												
LBMP	63%	62%	61%	60%								
Internal Bilaterals	29%	30%	30%	31%								
Import Bilaterals	5%	5%	6%	6%								
Export Bilaterals	1%	2%	2%	2%								
Wheels Through	1%	1%	1%	1%								
Market Share of Total Load												
Day Ahead Market	102.2%	102.5%	102.0%	101.9%								
Balancing Energy +	-2.2%	-2.5%	-2.0%	-1.9%								
Total MWH	14,977,016		13,266,617	11,592,547								
Average Daily Energy Sendout/Month GWh	449	436	411	371								
<u>2018</u>	<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	<u>December</u>
2018 Day Ahead Market MWh	<u>January</u> 15,153,751	<u>February</u> 12,643,854	March 13,521,386	<u>April</u> 12,158,686	<u>May</u> 12,721,073	<u>June</u> 13,983,384	<u>July</u> 16,839,994	<u>August</u> 17,195,447	<u>September</u> 14,432,632	October 13,548,828	November 13,506,134	<u>December</u> 14,450,460
Day Ahead Market MWh	<del></del> _					' <u></u>	_					
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073	13,983,384	16,839,994	17,195,447	14,432,632	13,548,828	13,506,134	14,450,460
Day Ahead Market MWh	15,153,751 59% 4%	12,643,854 57%	13,521,386 58%	12,158,686 60%	12,721,073 61% 2%	13,983,384 61% 1%	16,839,994 65% 1%	17,195,447 65% 2%	14,432,632 61% 3%	13,548,828 57% 6%	13,506,134 58%	14,450,460 56% 6%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	15,153,751 59% 4% 29%	12,643,854 57% 3% 31%	13,521,386 58% 2% 32%	12,158,686 60% 2% 30%	12,721,073 61% 2% 29%	13,983,384 61% 1% 30%	16,839,994 65% 1% 26%	17,195,447 65% 2% 25%	14,432,632 61% 3% 28%	13,548,828 57% 6% 29%	13,506,134 58% 6% 30%	14,450,460 56% 6% 30%
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	15,153,751 59% 4% 29% 5%	12,643,854 57% 3%	13,521,386 58% 2%	12,158,686 60% 2% 30% 5%	12,721,073 61% 2% 29% 5%	13,983,384 61% 1% 30% 5%	16,839,994 65% 1% 26% 4%	17,195,447 65% 2%	14,432,632 61% 3%	13,548,828 57% 6%	13,506,134 58% 6% 30% 2%	14,450,460 56% 6% 30% 5%
Day Ahead Market MWh  DAM LSE Internal LBMP Energy Sales  DAM External TC LBMP Energy Sales  DAM Bilateral - Internal Bilaterals	15,153,751 59% 4% 29%	12,643,854 57% 3% 31% 5%	13,521,386 58% 2% 32% 5%	12,158,686 60% 2% 30%	12,721,073 61% 2% 29%	13,983,384 61% 1% 30% 5% 1%	16,839,994 65% 1% 26%	17,195,447 65% 2% 25% 4%	14,432,632 61% 3% 28% 5%	13,548,828 57% 6% 29% 5%	13,506,134 58% 6% 30% 2% 2%	14,450,460 56% 6% 30% 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	15,153,751 59% 4% 29% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2%	13,521,386 58% 2% 32% 5% 2% 2%	12,158,686 60% 2% 30% 5% 2% 2%	12,721,073 61% 2% 29% 5% 2% 2%	13,983,384 61% 1% 30% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2%	17,195,447 65% 2% 25% 4% 1% 2%	14,432,632 61% 3% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1%	14,450,460 56% 6% 30% 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619	12,643,854 57% 3% 31% 5% 2% 2% -299,377	13,521,386 58% 2% 32% 5% 2% 2% -386,811	12,158,686 60% 2% 30% 5% 2% 2% -72,862	12,721,073 61% 2% 29% 5% 2% 2% -29,539	13,983,384 61% 1% 30% 5% 1% 2% -354,112	16,839,994 65% 1% 26% 4% 1% 2% -80,438	17,195,447 65% 2% 25% 4% 1% 2% -44,732	14,432,632 61% 3% 28% 5% 1% 2% -210,436	13,548,828 57% 6% 29% 5% 2% 1% -314,885	13,506,134 58% 6% 30% 2% 2% 1% -304,277	14,450,460 56% 6% 30% 5% 2% 2% -428,748
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94%
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27%
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3%
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0% 6%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 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 - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals  Balancing Energy Bilateral - Wheel Through Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0% 6% -15%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36%
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103%	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36%
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103%	12,721,073 61% 29% 5% 29% 2% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36%
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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5%	12,721,073 61% 29% 5% 29% 5% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 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 - 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 0% 6% -15% 59% 33% 6% 2%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2%	12,721,073 61% 29% 5% 29% 2% 2% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 29%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 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  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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5%	12,721,073 61% 29% 5% 29% 5% 2% -29,539 -458% 564% 29% 0% 51% -287%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 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 - 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 29% 5% 29% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 29% 5% 29% 2% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1% 1%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% -36% 61% 31% 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 +	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1% 102.4% -2.4%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1% 102.9% -2.9%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 29% 5% 29% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%  102.6% -2.6%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1% 1% 100.5% -0.5%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1% 1% 100.3% -0.3%	14,432,632 61% 3% 28% 5% 1% 22% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1% 102.4% -2.4%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1% 102.3% -2.3%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% -36% 61% 31% 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	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 59% 32% 5% 2% 1%	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1%	12,158,686 60% 2% 30% 5% 2% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1%	12,721,073 61% 29% 5% 29% 2% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1%	13,983,384 61% 1% 30% 5% 1% 2% -354,112 -113% 29% 5% 0% 3% -23% 61% 31% 5% 1% 2%	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 25% -281% 68% 25% 4% 1% 1% 1%	14,432,632 61% 3% 28% 5% 1% 2% -210,436 -82% 14% 7% 0% 3% -42% 64% 28% 5% 1% 2%	13,548,828 57% 6% 29% 5% 2% 1% -314,885 -105% 30% 2% 0% 0% -27% 63% 30% 5% 2% 1%	13,506,134 58% 6% 30% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27% 3% 0% -36% 61% 31% 5% 2% 1%

<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.

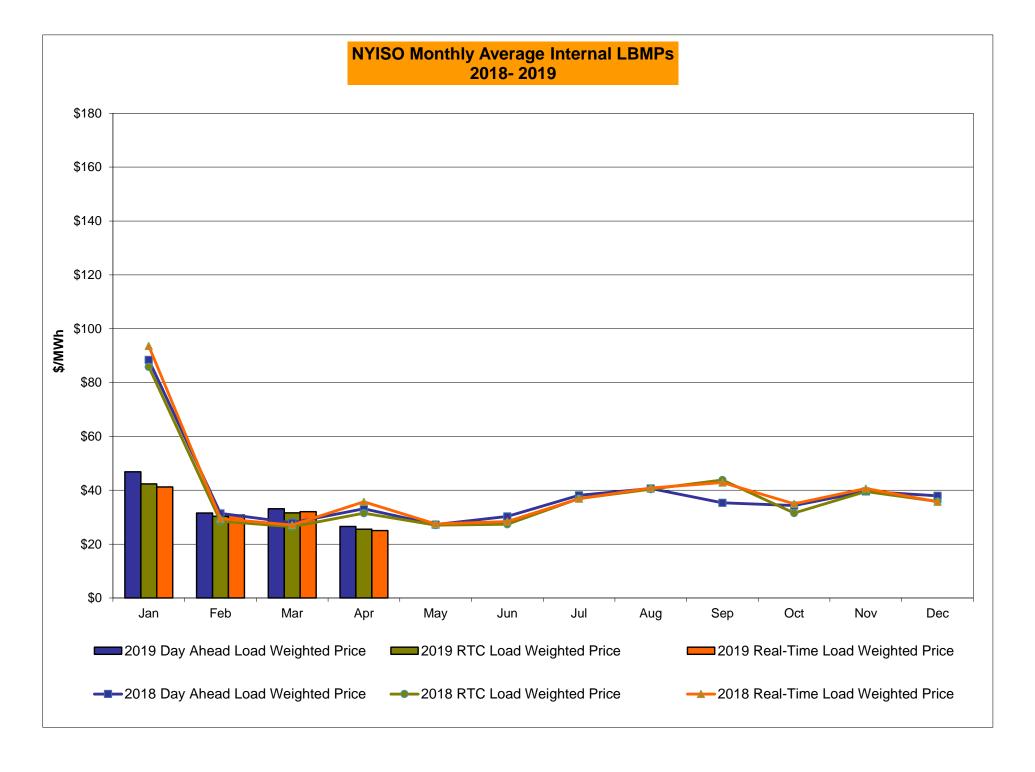
#### **NYISO Markets 2019 Energy Statistics**

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	August September	October November December
DAY AHEAD LBMP									
Price *	\$45.01	\$30.66	\$32.34	\$25.97					
Standard Deviation	\$25.67	\$12.86	\$9.30	\$6.32					
Load Weighted Price **	\$46.88	\$31.53	\$33.14	\$26.57					
RTC LBMP									
Price *	\$40.86	\$29.74	\$31.04	\$25.07					
Standard Deviation	\$23.02	\$10.79	\$8.48	\$7.53					
Load Weighted Price **	\$42.39	\$30.32	\$31.62	\$25.54					
REAL TIME LBMP									
Price *	\$39.54	\$30.13	\$31.46	\$24.47					
Standard Deviation	\$26.03	\$13.77	\$12.54	\$17.27					
Load Weighted Price **	\$41.24	\$30.80	\$32.06	\$25.06					
Average Daily Energy Sendout/Month GWh	449	436	411	371					

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

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

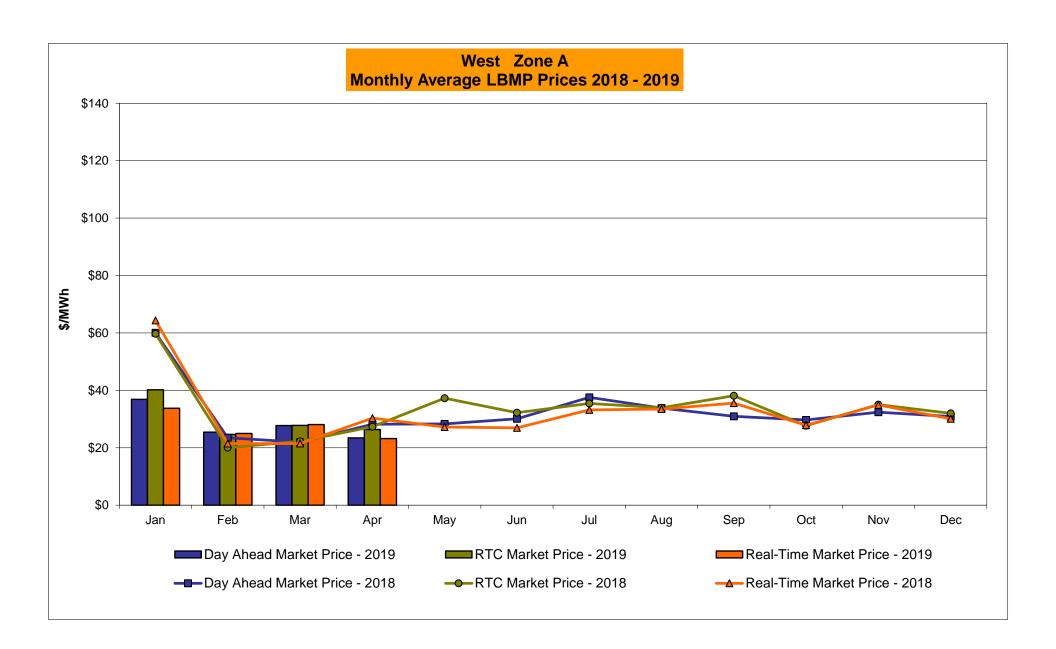
<sup>\*</sup> Average zonal load weighted prices.
\*\* Average zonal load weighted prices, load weighted in each hour.

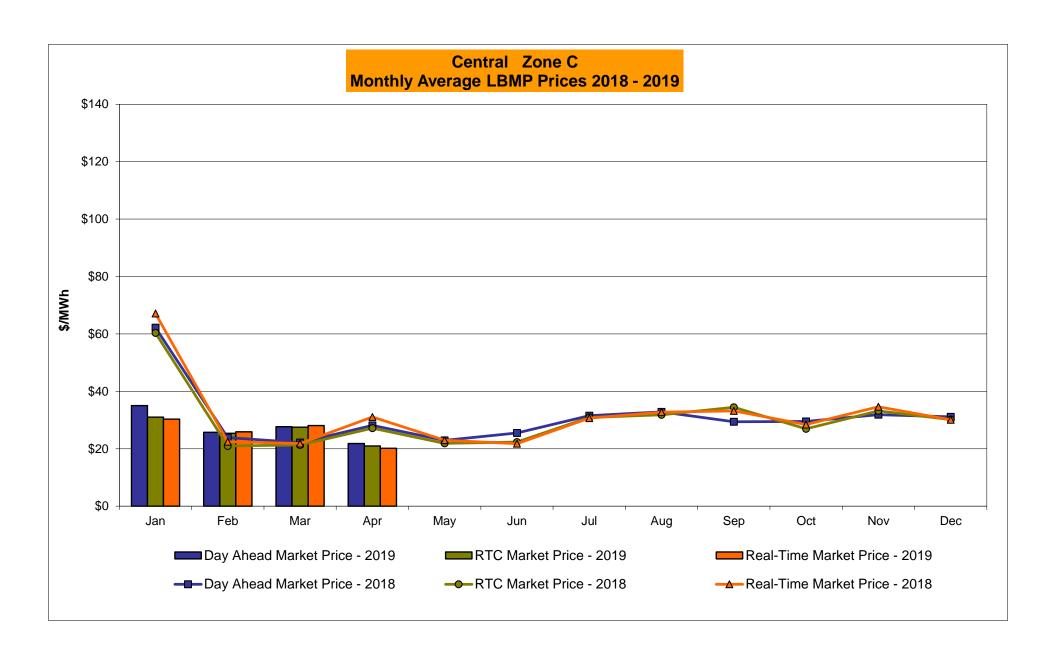


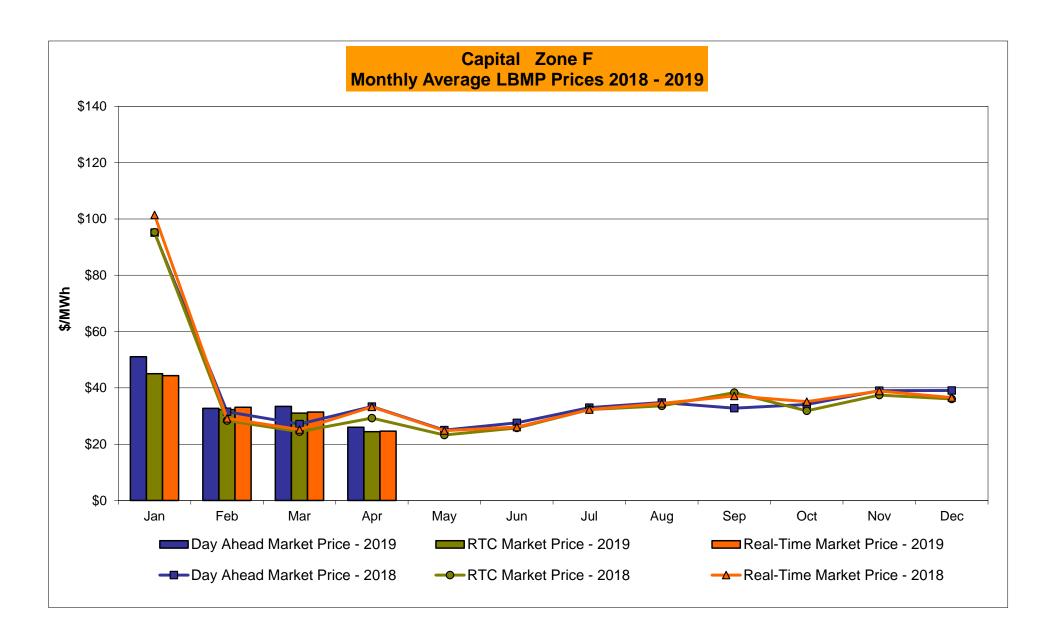
#### April 2019 Zonal LBMP Statistics for NYISO (\$/MWh)

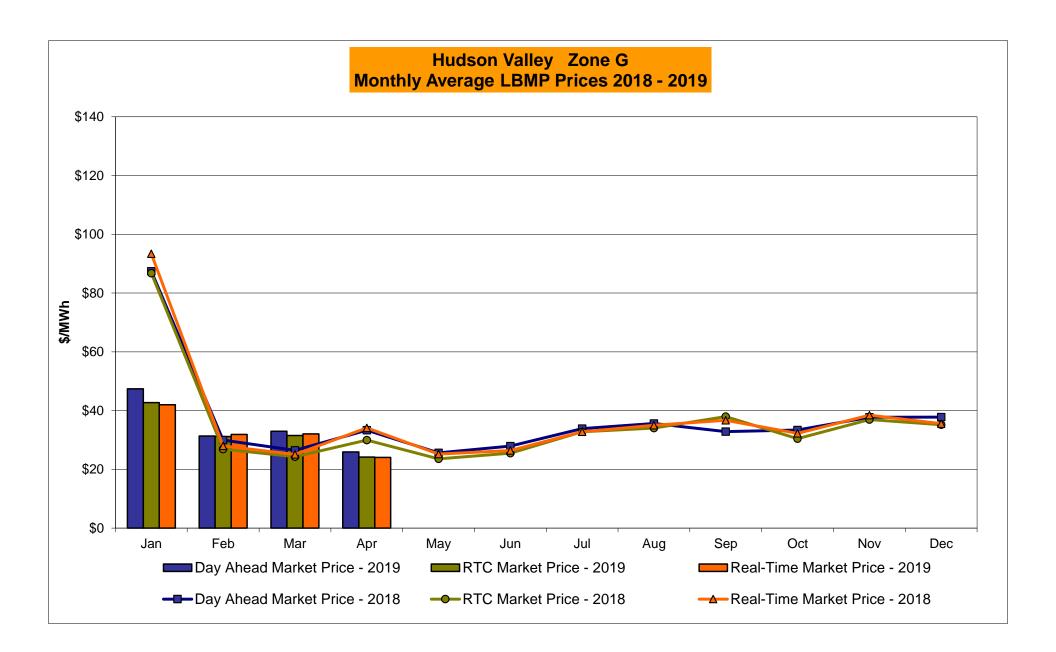
	WEST	GENESEE	NORTH	CENTRAL	MOHAWK VALLEY	CAPITAL	HUDSON VALLEY	MILLWOOD	DUNWOODIE	NEW YORK CITY	LONG ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	Zone I	Zone J	Zone K
DAY AHEAD LBMP											
Unweighted Price *	23.40	21.03	19.05	21.82	21.89	26.03	25.94	26.18	26.29	28.82	29.41
Standard Deviation	8.14	6.38	5.85	6.14	6.23	5.94	6.44	6.58	6.60	6.93	7.82
RTC LBMP											
Unweighted Price *	26.33	19.69	18.88	20.96	20.98	24.45	24.20	24.32	24.39	26.61	30.27
Standard Deviation	17.53	7.11	7.26	7.07	7.13	6.93	6.64	6.68	6.68	8.75	25.33
REAL TIME LBMP											
Unweighted Price *	23.20	19.05	18.07	20.18	20.27	24.64	24.07	24.19	24.26	26.91	28.75
Standard Deviation	20.90	16.28	15.89	16.42	16.56	18.96	18.05	18.14	18.16	20.03	23.61
		HYDRO	HYDRO			CROSS					
	ONTARIO	HYDRO QUEBEC	HYDRO QUEBEC		NEW	CROSS SOUND	NORTHPORT-				
	ONTARIO IESO	QUEBEC	QUEBEC	PJM	NEW ENGLAND		NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		QUEBEC		РЈМ		SOUND CABLE	NORWALK				
	IESO	QUEBEC	QUEBEC	PJM <u>Zone P</u>		SOUND		NEPTUNE Controllable Line	LINDEN VFT Controllable Line	HUDSON Controllable Line	Controllable
DAY AHEAD LBMP		QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	Controllable	
<b>DAY AHEAD LBMP</b> Unweighted Price *	IESO	QUEBEC (Wheel)	QUEBEC (Import/Export)		ENGLAND	SOUND CABLE Controllable	NORWALK Controllable	Controllable	<u>Controllable</u>	Controllable	Controllable
	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> 20.08	QUEBEC (Wheel) Zone M	QUEBEC (Import/Export)  Zone M  19.67	<u>Zone P</u> 24.05	ENGLAND  Zone N  26.47	SOUND CABLE Controllable Line	NORWALK Controllable Line 27.93	Controllable Line 28.84	Controllable Line 28.80	Controllable Line 28.60	Controllable Line 18.85
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price *	20.08 5.28	QUEBEC (Wheel) Zone M 19.71 5.87	QUEBEC (Import/Export)  Zone M  19.67 5.85	<b>Zone P</b> 24.05 6.00	<b>ENGLAND Zone N</b> 26.47 5.51	SOUND CABLE Controllable Line 29.34 7.75	NORWALK Controllable Line 27.93 6.70	28.84 7.79	28.80 6.94	28.60 6.90	18.85 5.76
Unweighted Price * Standard Deviation  RTC LBMP	Zone O  20.08 5.28	QUEBEC (Wheel) Zone M 19.71 5.87	QUEBEC (Import/Export)  Zone M  19.67 5.85	<b>Zone P</b> 24.05 6.00	<b>Zone N</b> 26.47 5.51	SOUND CABLE Controllable Line 29.34 7.75	NORWALK Controllable Line 27.93 6.70	Controllable Line 28.84 7.79	Controllable Line 28.80 6.94	Controllable Line 28.60 6.90	Controllable Line 18.85 5.76
Unweighted Price * Standard Deviation  RTC LBMP Unweighted Price * Standard Deviation  REAL TIME LBMP	20.08 5.28 18.74 6.72	QUEBEC (Wheel) Zone M 19.71 5.87 19.25 7.25	QUEBEC (Import/Export)  Zone M  19.67 5.85  19.25 7.25	24.05 6.00 23.95 8.36	<b>Zone N</b> 26.47 5.51  26.05 7.76	SOUND CABLE Controllable Line 29.34 7.75	NORWALK Controllable Line 27.93 6.70 29.71 25.54	28.84 7.79 29.48 25.68	28.80 6.94 25.96 7.20	28.60 6.90 26.03 7.25	18.85 5.76 18.83 7.98
Unweighted Price * Standard Deviation  RTC LBMP  Unweighted Price * Standard Deviation	20.08 5.28	QUEBEC (Wheel) Zone M 19.71 5.87	QUEBEC (Import/Export)  Zone M  19.67 5.85	<b>Zone P</b> 24.05 6.00	<b>ENGLAND Zone N</b> 26.47 5.51	SOUND CABLE Controllable Line 29.34 7.75	NORWALK Controllable Line 27.93 6.70	28.84 7.79	28.80 6.94	28.60 6.90	18.85 5.76

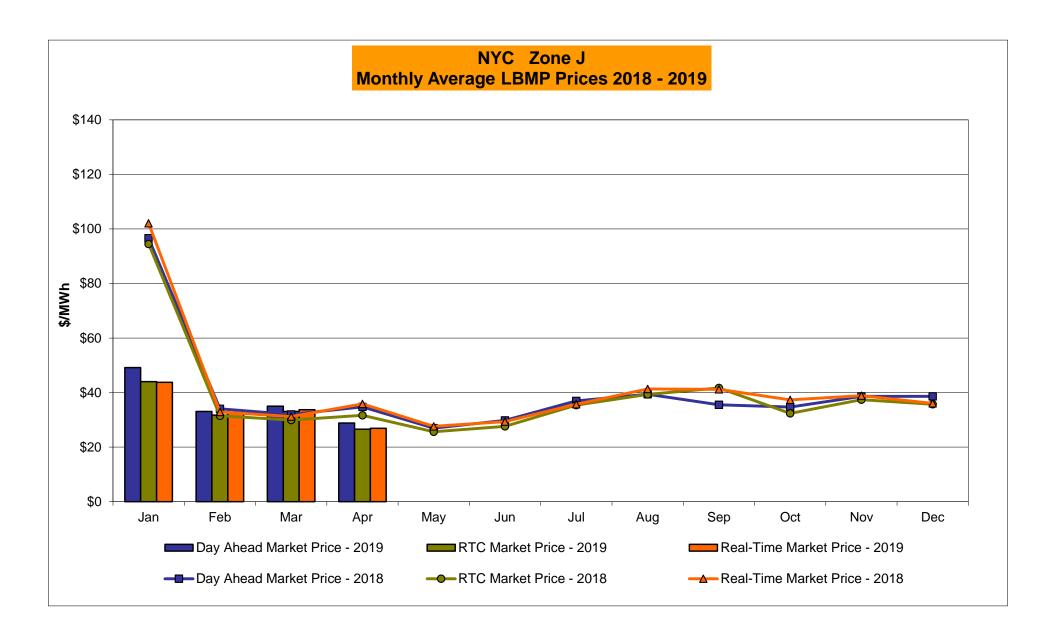
<sup>\*</sup> Straight LBMP averages

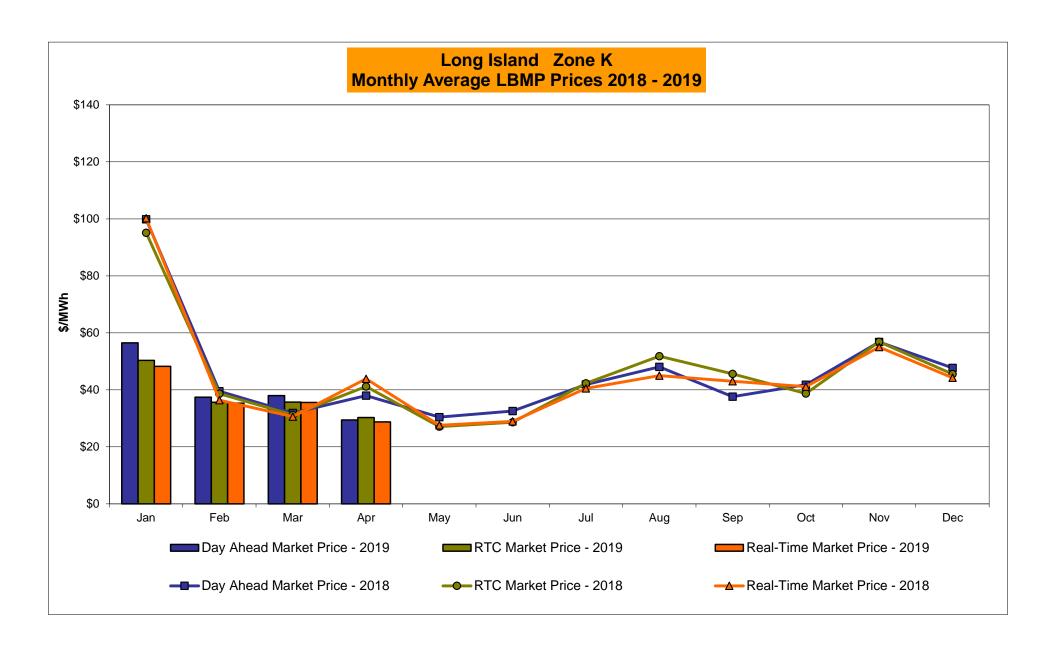


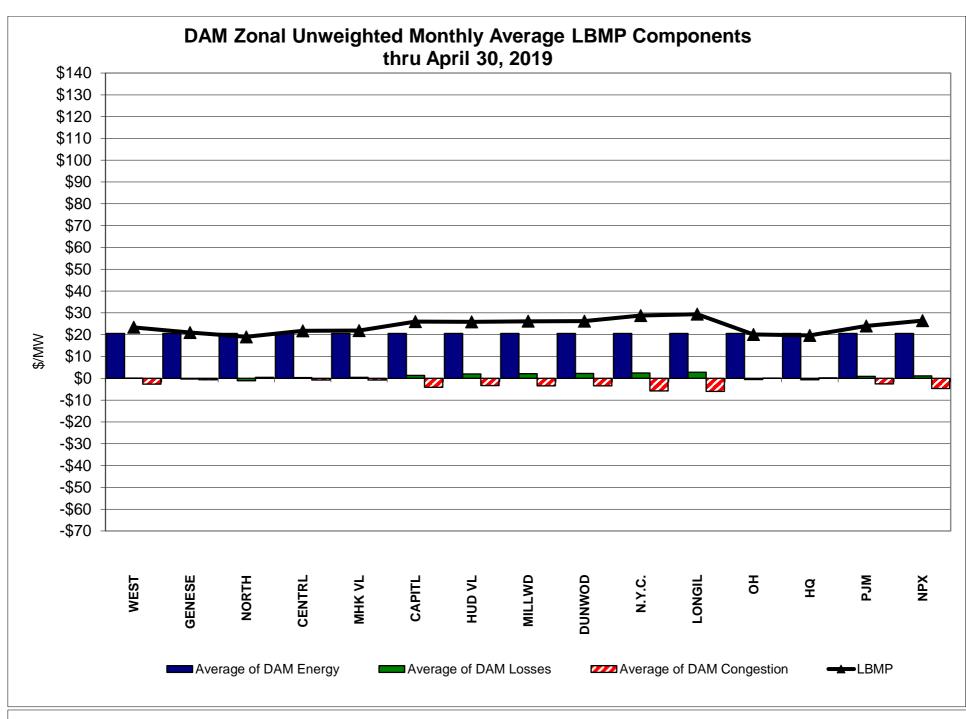


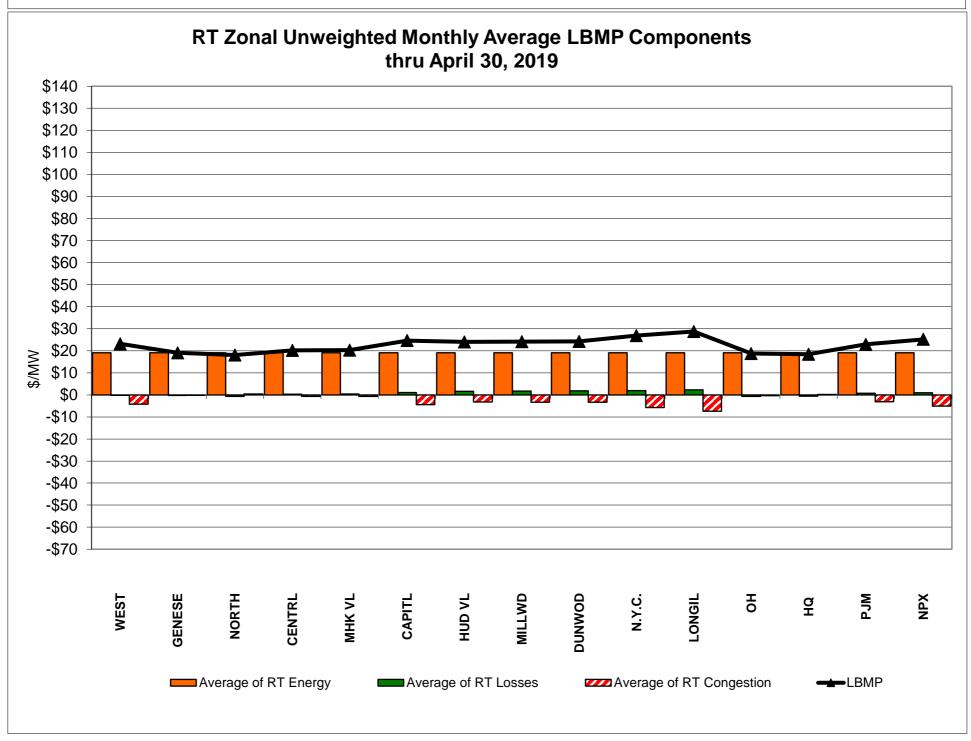




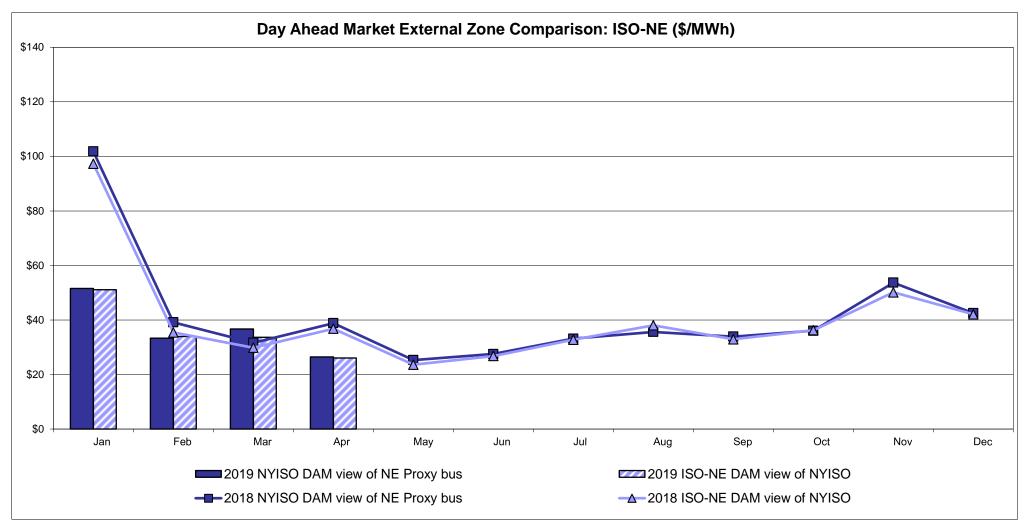


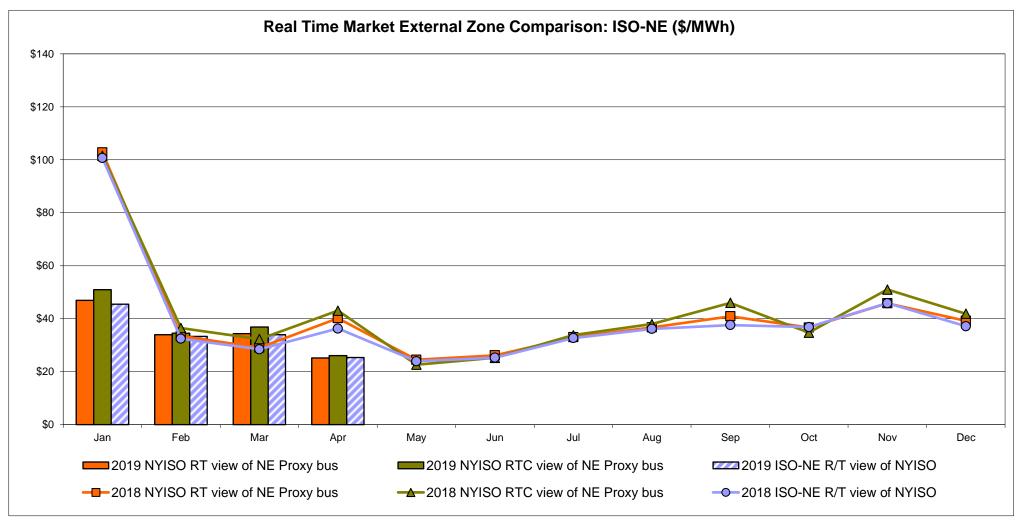




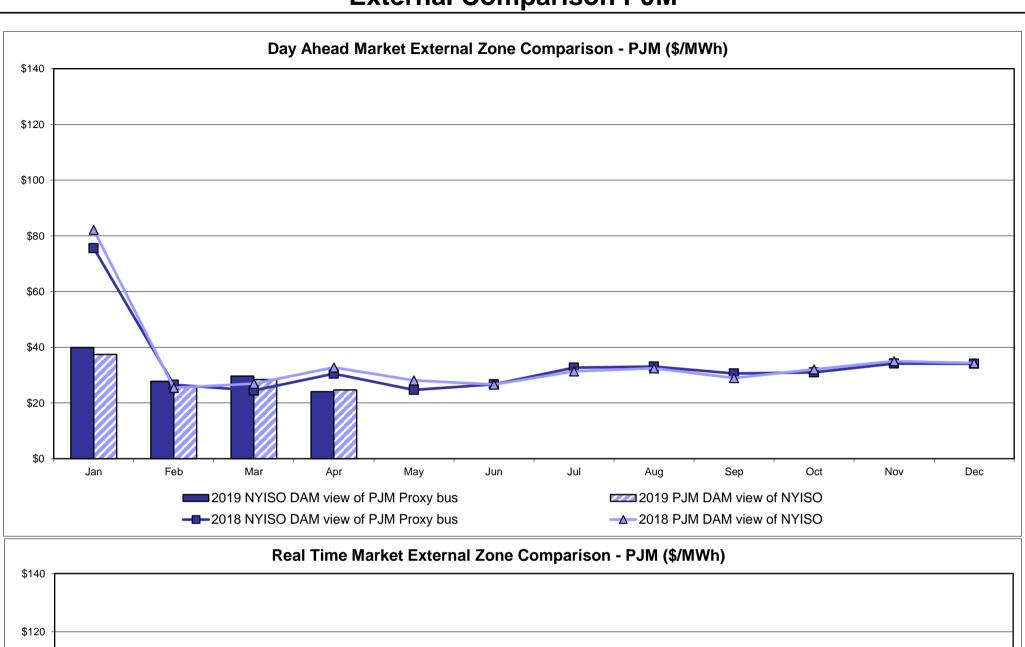


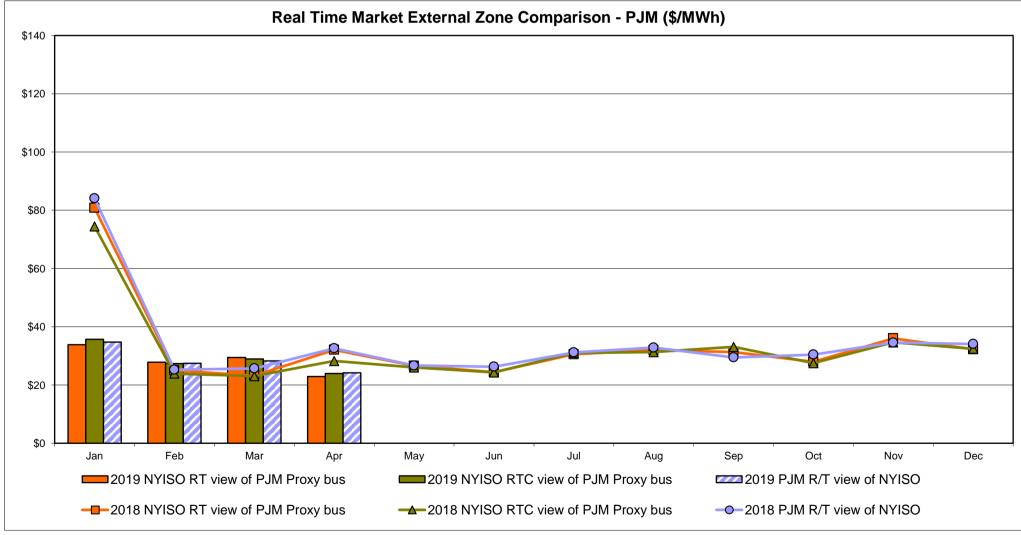
### **External Comparison ISO-New England**



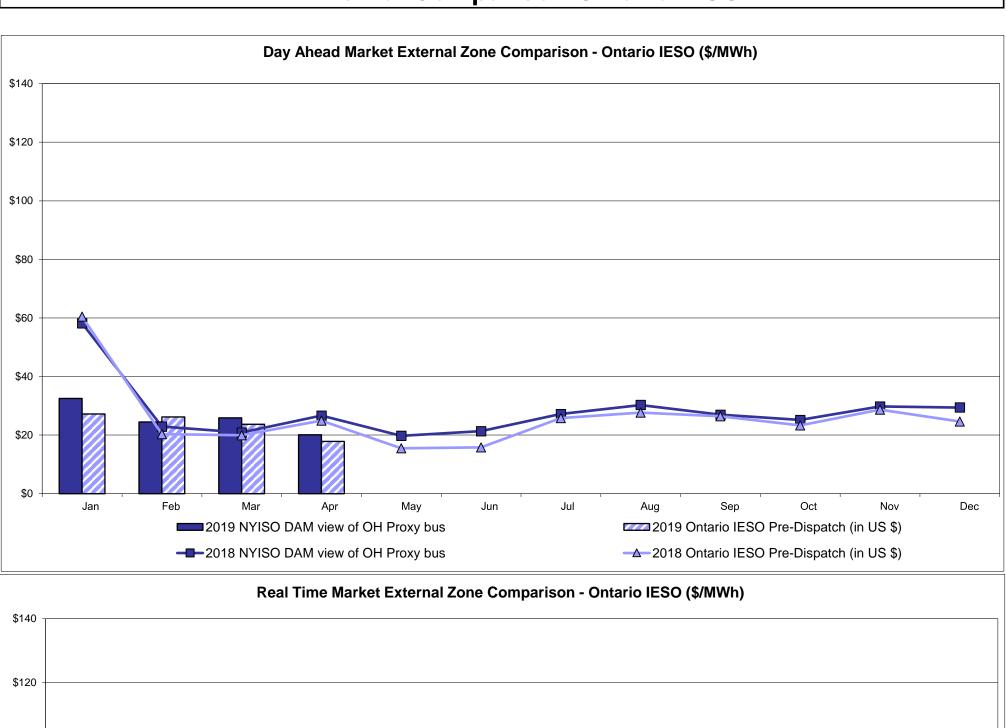


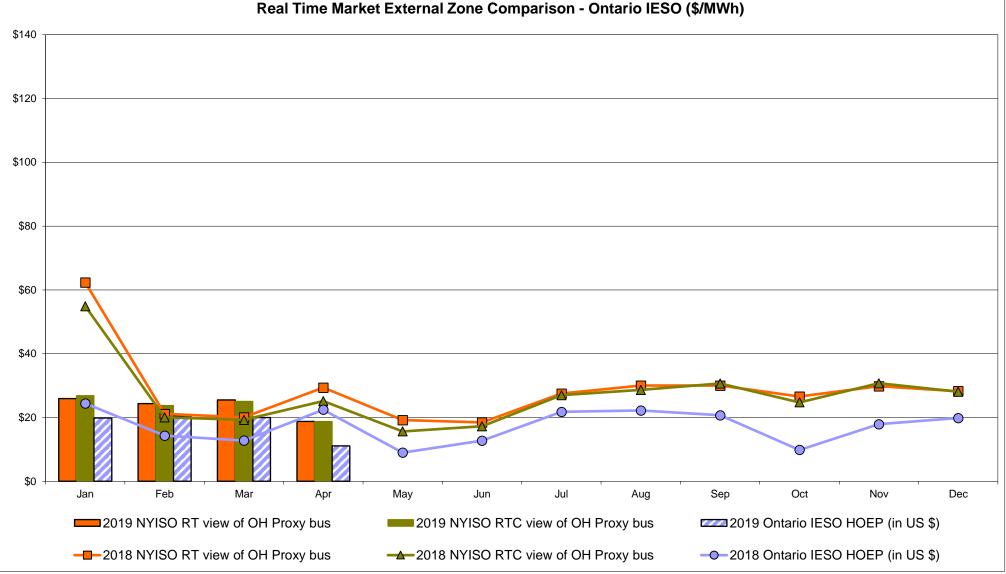
#### **External Comparison PJM**





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

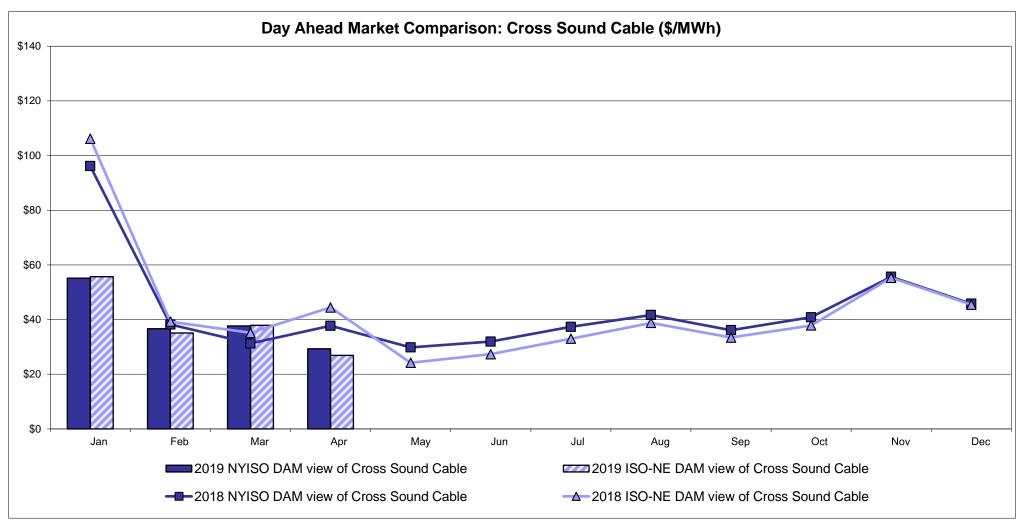


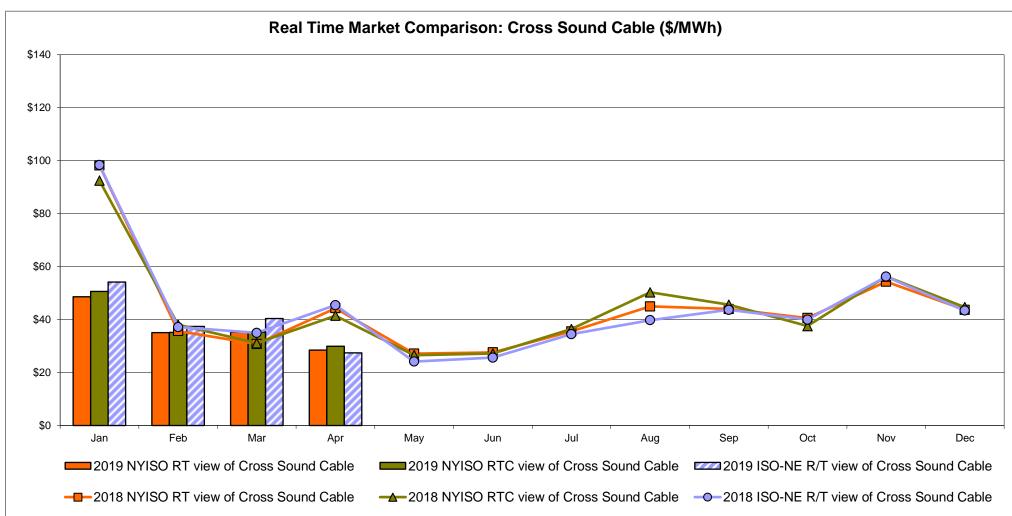


Notes: Exchange factor used for April 2019 was 0.747495888772612 to US

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

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





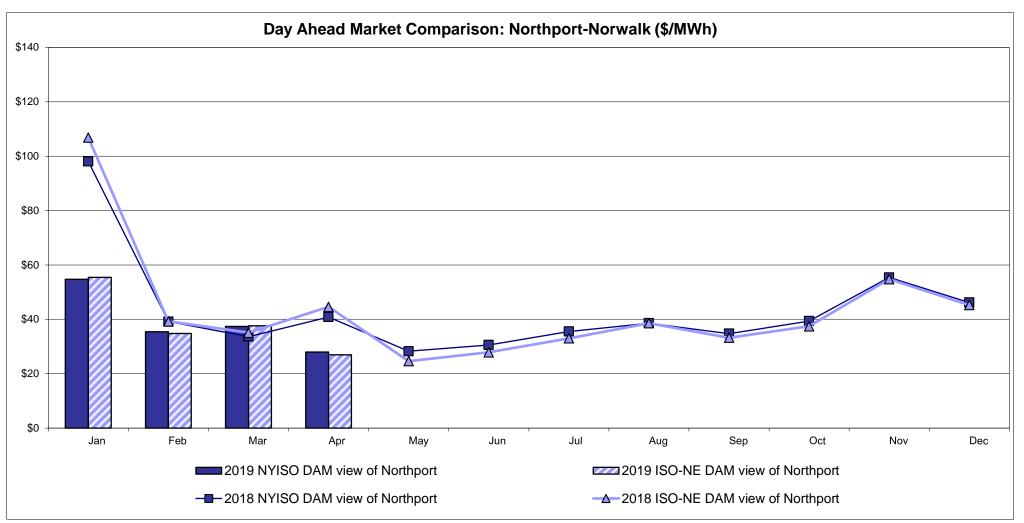
#### Note:

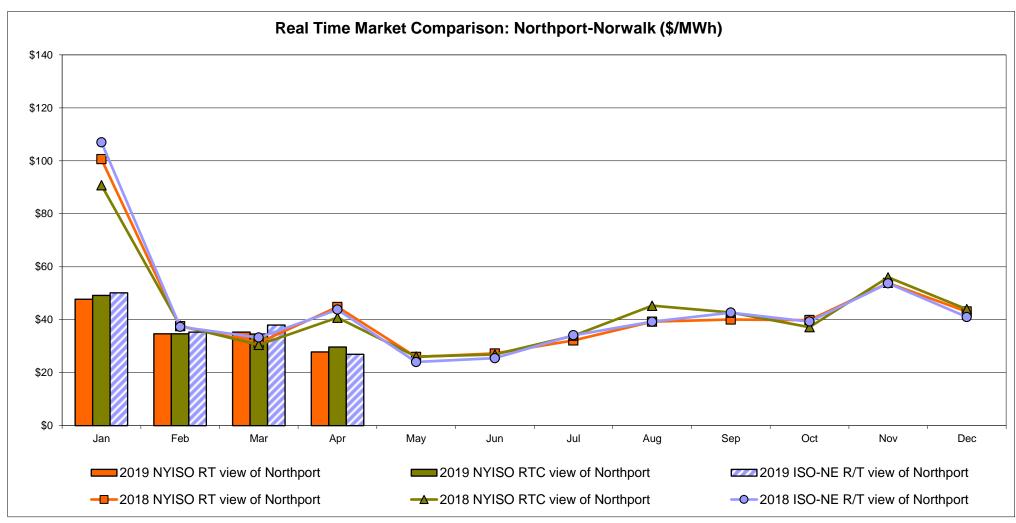
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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)**





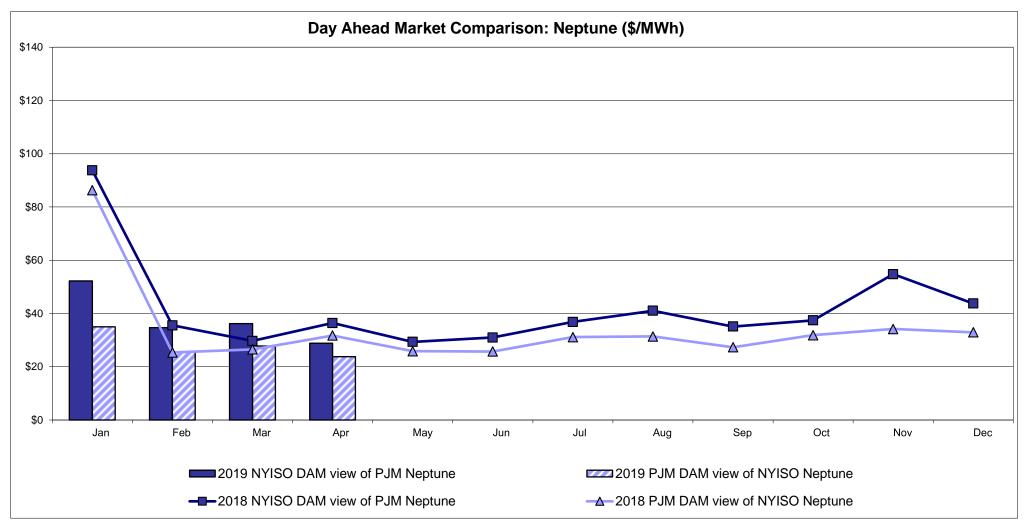
#### Note:

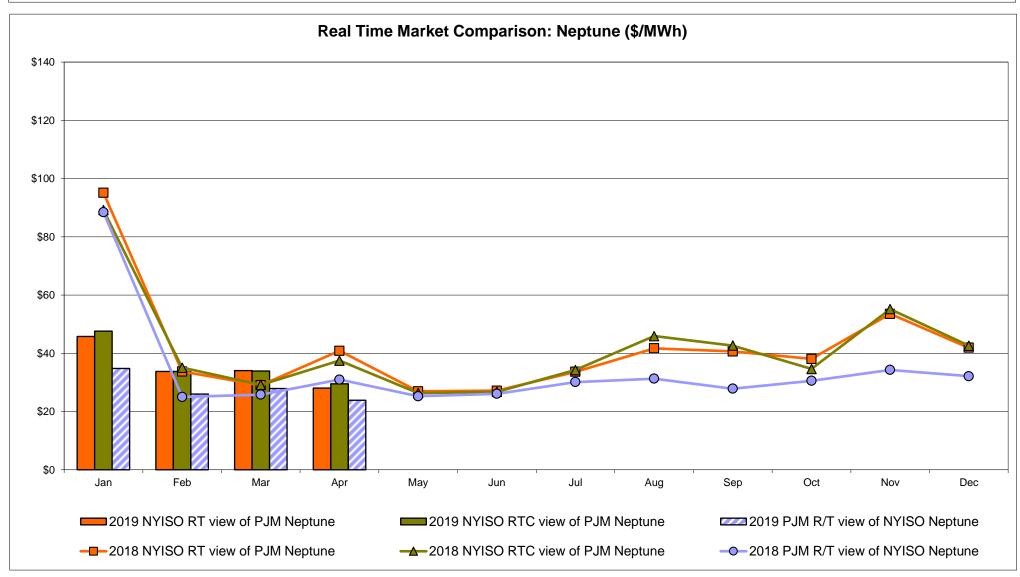
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

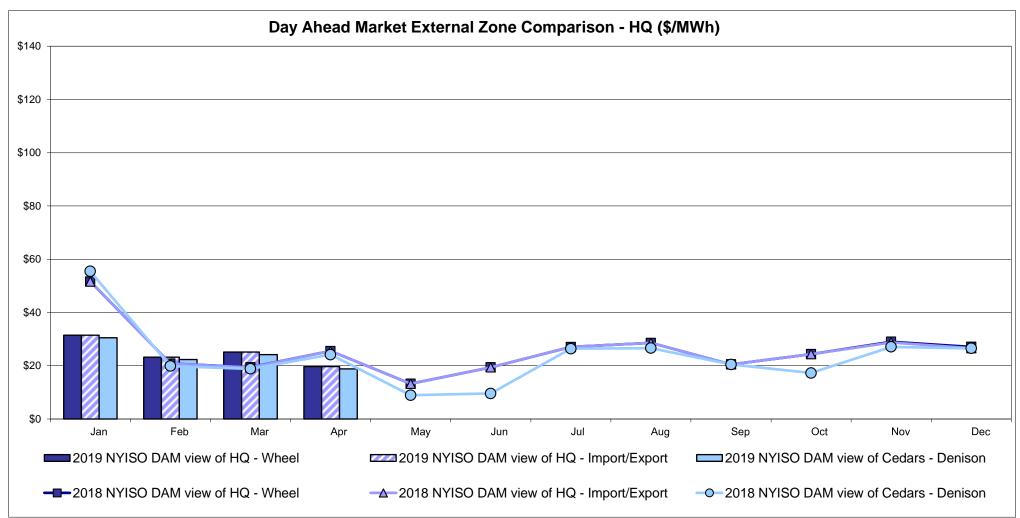
The DAM and R/T prices at the 1385 interface are used for NYISO.

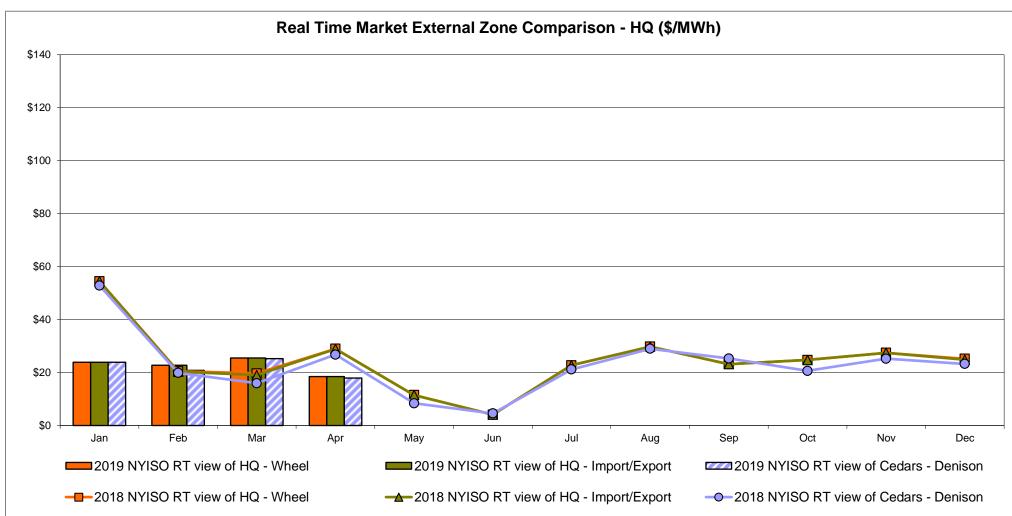
### **External Controllable Line: Neptune (PJM)**





### **External Comparison Hydro-Quebec**

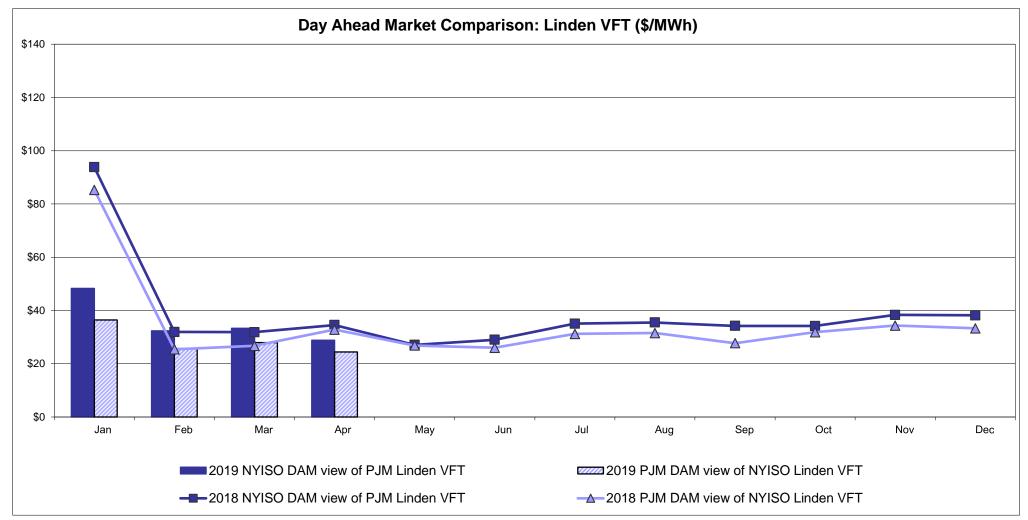


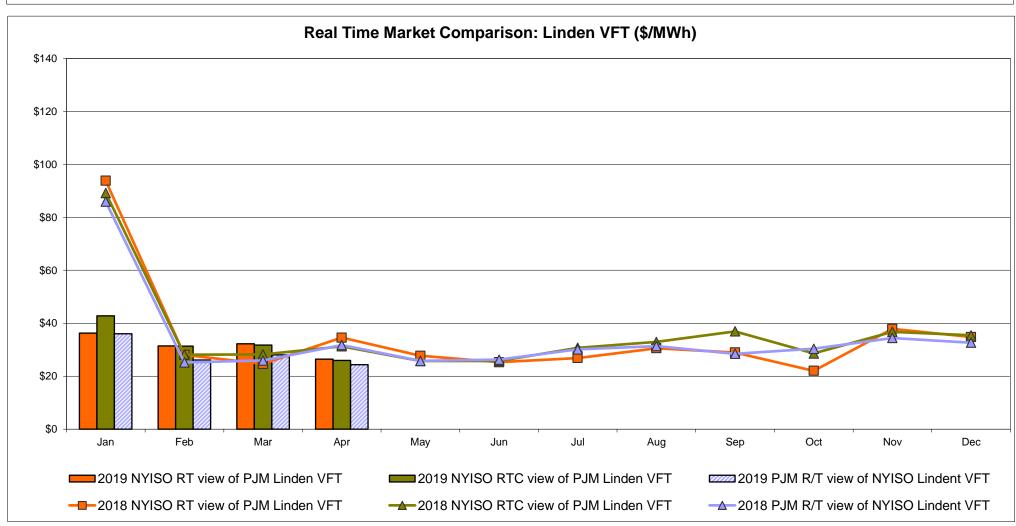


Note:

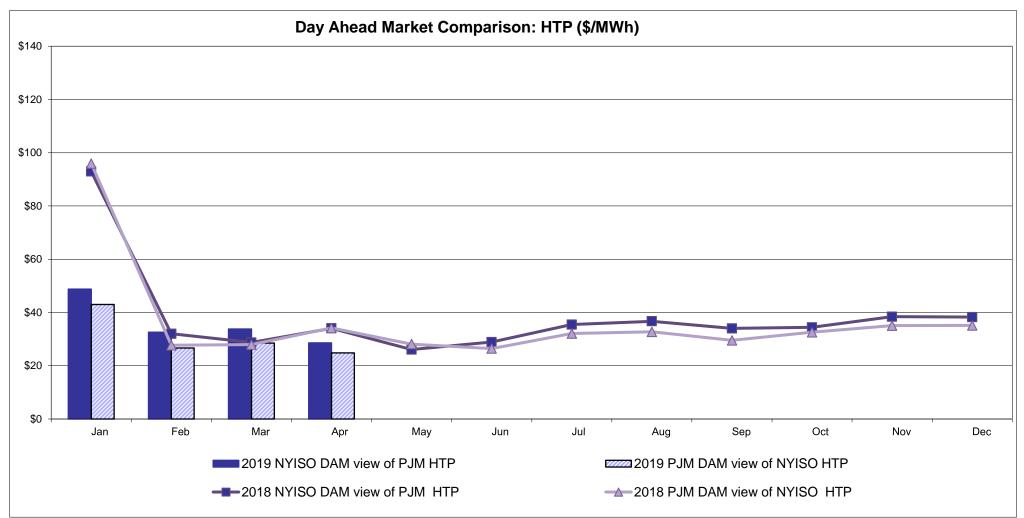
Hydro-Quebec Prices are unavailable.

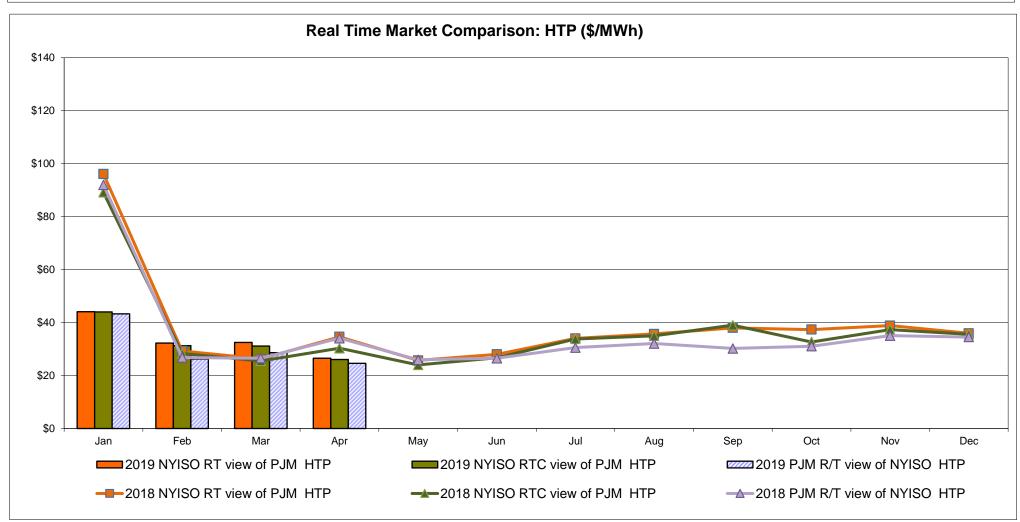
#### **External Controllable Line: Linden VFT (PJM)**





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

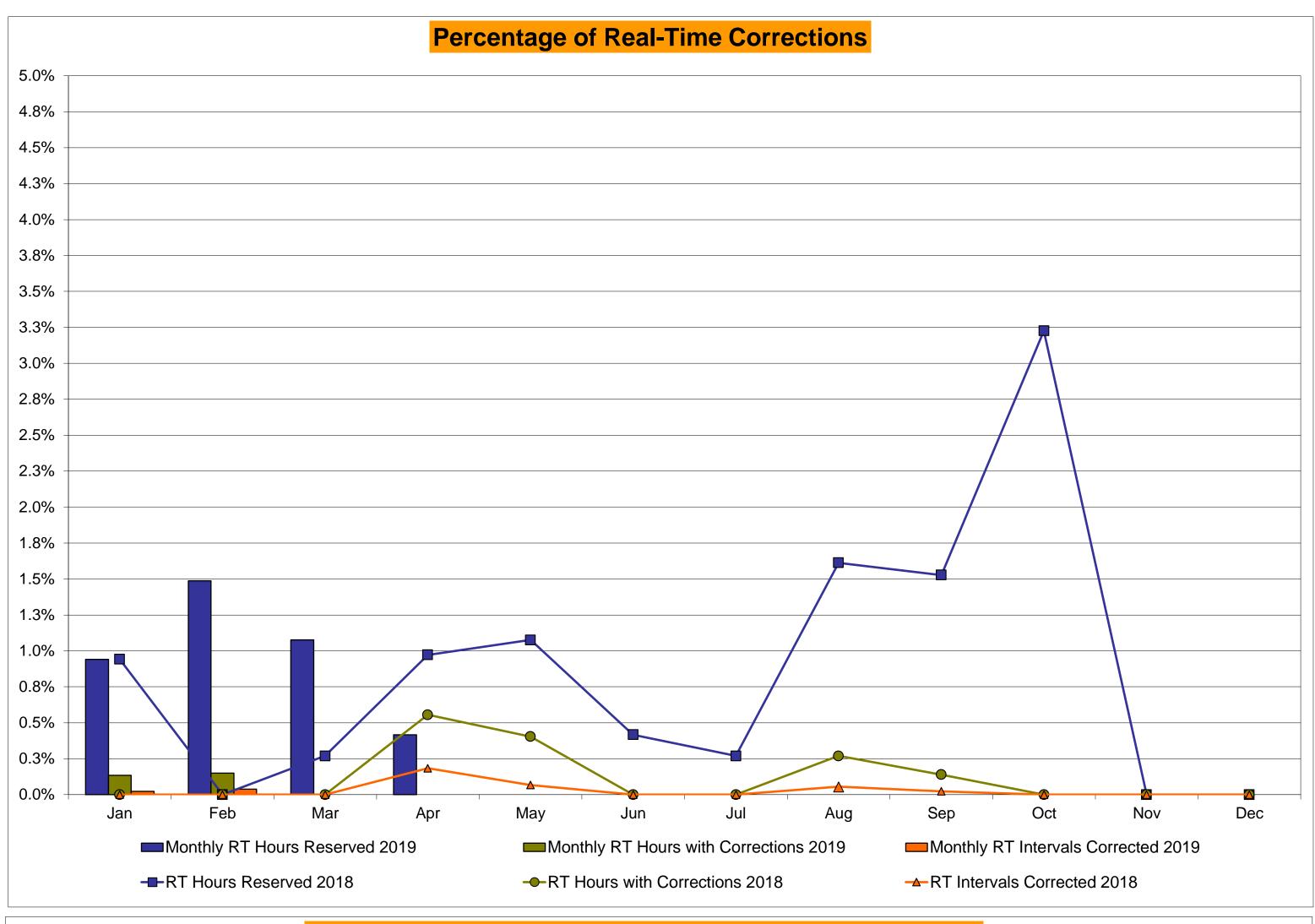


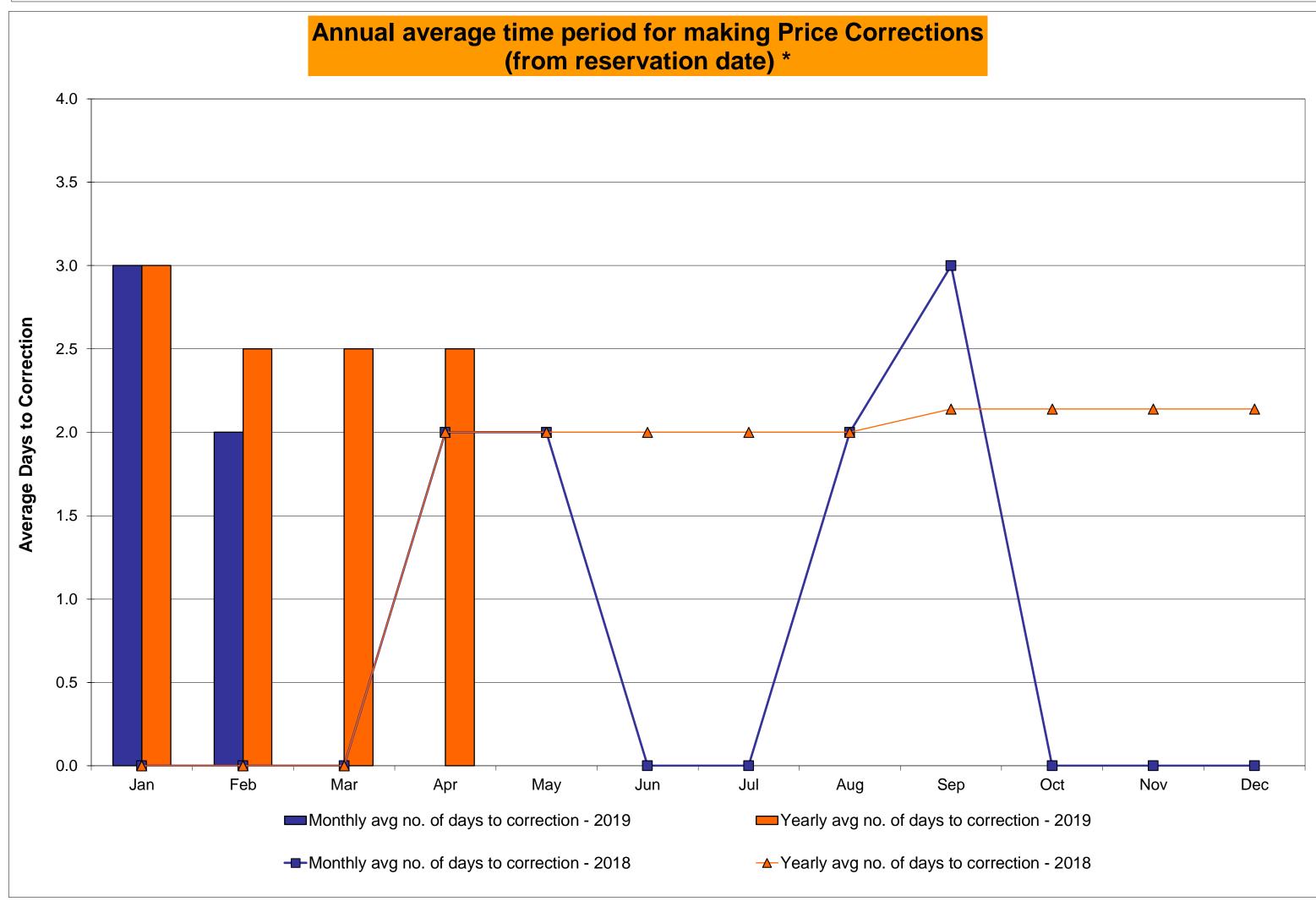


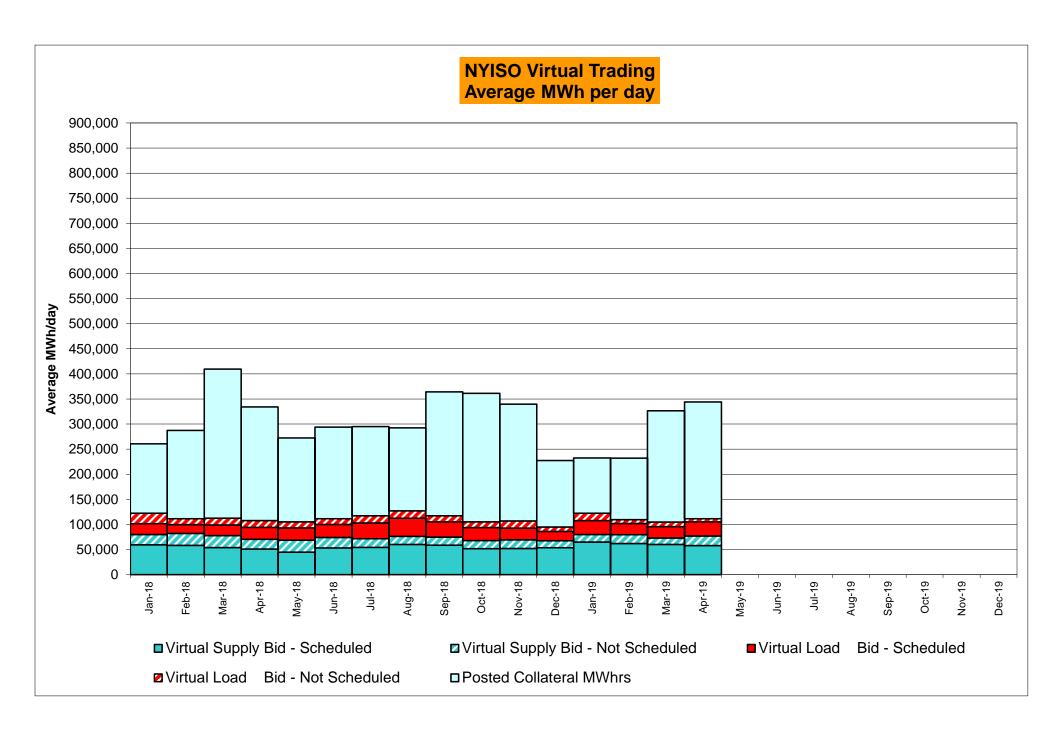
#### **NYISO Real Time Price Correction Statistics**

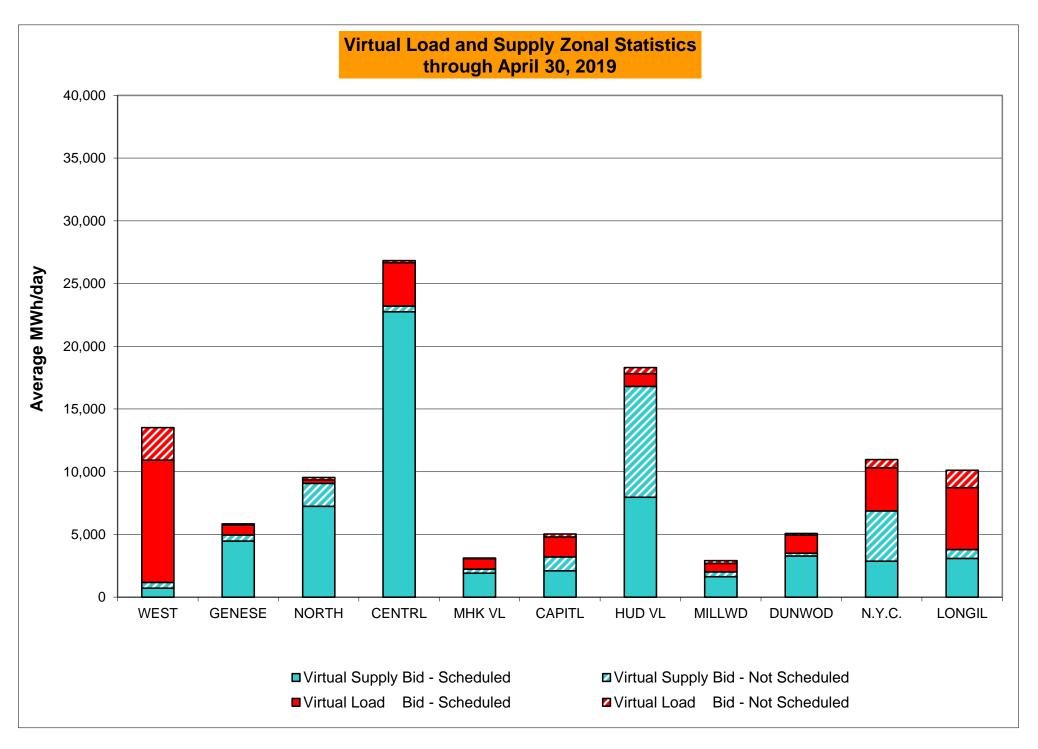
							Correcti						
<u>2019</u>		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
<b>Hour Corrections</b>													
Number of hours with corrections	in the month	1	1	0	0								
Number of hours	in the month	744	672	743	720								
% of hours with corrections	in the month	0.13%	0.15%	0.00%	0.00%								
% of hours with corrections	year-to-date	0.13%	0.14%	0.09%	0.07%								
Interval Corrections													
Number of intervals corrected	in the month	2	3	0	0								
Number of intervals	in the month	9,071	8,131	9,008	8,750								
% of intervals corrected	in the month	0.02%	0.04%	0.00%	0.00%								
% of intervals corrected	year-to-date	0.02%	0.03%	0.02%	0.01%								
Hours Reserved	•												
Number of hours reserved	in the month	7	10	8	3								
Number of hours	in the month	744	672	743	720								
% of hours reserved	in the month	0.94%	1.49%	1.08%	0.42%								
% of hours reserved	year-to-date	0.94%	1.20%	1.16%	0.97%								
Days to Correction *	year-to-date	0.94 /0	1.2070	1.1076	0.97 /6								
	in the month	3.00	2.00	0.00	0.00								
Avg. number of days to correction			2.00										
Avg. number of days to correction  Days Without Corrections	year-to-date	3.00	2.50	2.50	2.50								
	in the month	30	27	21	30								
Days without corrections  Days without corrections		30	27 57	31 88	118								
Days without corrections	year-to-date	30	37	00	110								
2018		<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
2018 Hour Corrections		<u>January</u>	February	<u>March</u>	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	<u>December</u>
	in the month		<del></del>		<u>April</u> 4	-	<u>June</u> 0			September 1	October 0		<u>December</u>
Hour Corrections		0	0	0	4	<u>May</u> 3 744	0	0	2	1		0	0
Hour Corrections  Number of hours with corrections  Number of hours	in the month	0 744	0 672	0 743	4 720	3 744	0 720	0 744	2 744	1 720	0 744	0 721	0 744
Hour Corrections  Number of hours with corrections  Number of hours  % of hours with corrections	in the month in the month	0 744 0.00%	0 672 0.00%	0 743 0.00%	4 720 0.56%	3 744 0.40%	0 720 0.00%	0 744 0.00%	2 744 0.27%	1 720 0.14%	0 744 0.00%	0 721 0.00%	0 744 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month	0 744	0 672	0 743	4 720	3 744	0 720	0 744	2 744	1 720	0 744	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 year-to-date	0 744 0.00% 0.00%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
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	0 744 0.00% 0.00%	0 672 0.00% 0.00%	0 743 0.00% 0.00%	4 720 0.56% 0.14%	3 744 0.40% 0.19%	0 720 0.00% 0.16%	0 744 0.00% 0.14%	2 744 0.27% 0.15%	1 720 0.14% 0.15%	0 744 0.00% 0.14%	0 721 0.00% 0.12%	0 744 0.00% 0.11%
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	0 744 0.00% 0.00% 0 9,021	0 672 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002	4 720 0.56% 0.14% 16 8,717	3 744 0.40% 0.19% 6 9,033	0 720 0.00% 0.16% 0 8,723	0 744 0.00% 0.14% 0 9,021	2 744 0.27% 0.15% 5 9,071	1 720 0.14% 0.15% 2 8,723	0 744 0.00% 0.14% 0 8,990	0 721 0.00% 0.12% 0 8,763	0 744 0.00% 0.11% 0 8,993
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 0 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 0 9,002 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% 0.19% 6 9,033 0.07%	0 720 0.00% 0.16% 0 8,723 0.00%	0 744 0.00% 0.14% 0 9,021 0.00%	2 744 0.27% 0.15% 5 9,071 0.06%	1 720 0.14% 0.15% 2 8,723 0.02%	0 744 0.00% 0.14% 0 8,990 0.00%	0 721 0.00% 0.12% 0 8,763 0.00%	0 744 0.00% 0.11% 0 8,993 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month	0 744 0.00% 0.00% 0 9,021	0 672 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002	4 720 0.56% 0.14% 16 8,717	3 744 0.40% 0.19% 6 9,033	0 720 0.00% 0.16% 0 8,723	0 744 0.00% 0.14% 0 9,021	2 744 0.27% 0.15% 5 9,071	1 720 0.14% 0.15% 2 8,723	0 744 0.00% 0.14% 0 8,990	0 721 0.00% 0.12% 0 8,763	0 744 0.00% 0.11% 0 8,993
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	0 744 0.00% 0.00% 0 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00%	4 720 0.56% 0.14% 16 8,717 0.18%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00%
Hour Corrections  Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections  Interval Corrections  Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected  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	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 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	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03%
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  When the second intervals % of intervals corrected  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	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 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 % 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 year-to-date	0 744 0.00% 0.00% 0 9,021 0.00% 0.00%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744	0 721 0.00% 0.12% 0 8,763 0.00% 0.03%	0 744 0.00% 0.11% 0 8,993 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	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 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 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	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 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 Number of intervals % of intervals corrected % of intervals corrected Hours Reserved Number of hours reserved Number of hours % of hours reserved % of hours reserved 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	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56%	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%
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  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  in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%
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  in the month	0 744 0.00% 0.00% 0 9,021 0.00% 0.00% 7 744 0.94% 0.94%	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49%	0 743 0.00% 0.00% 0 9,002 0.00% 0.00% 2 743 0.27% 0.42%	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66%	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62%	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57%	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70%	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79%	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04%	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95%	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87%

<sup>\*</sup>Calendar days from reservation date; for June 2018 forward, business days from market date







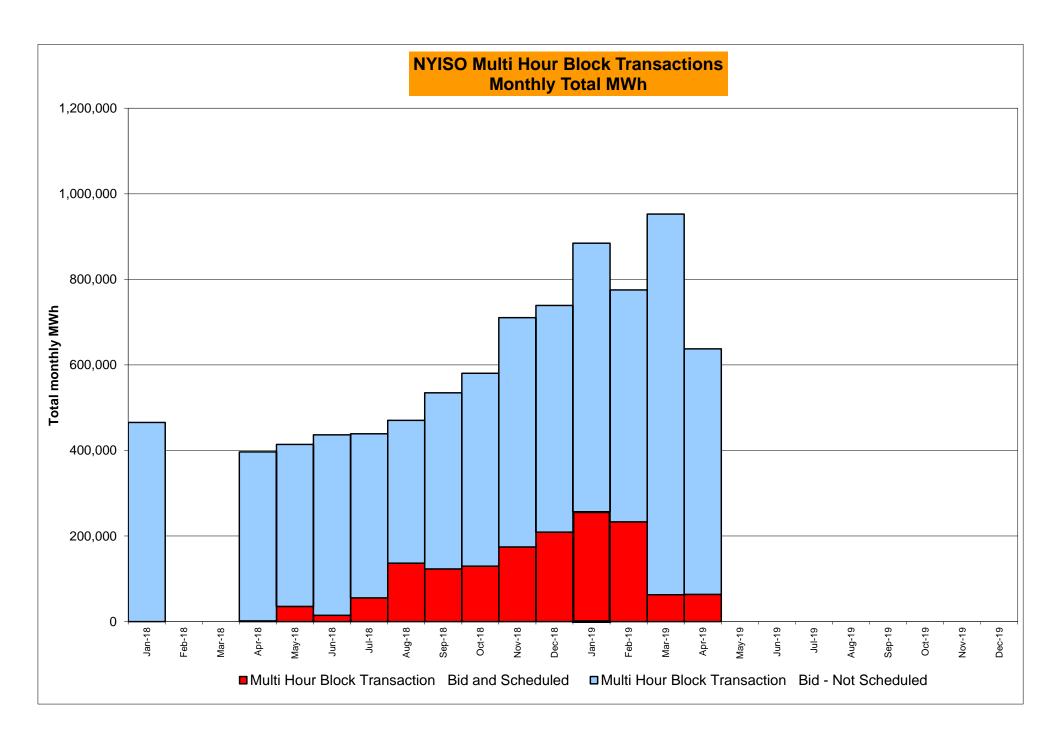


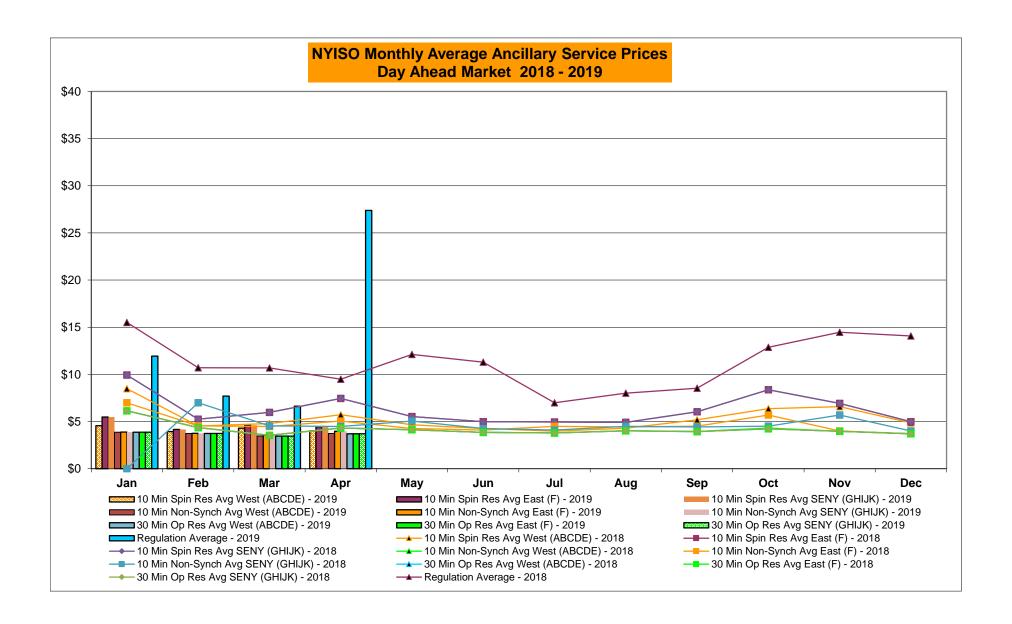
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2019 **Virtual Supply Bid Virtual Load Bid Virtual Supply Bid Virtual Load Bid** Virtual Load Bid **Virtual Supply Bid** Not Not Not Not Not Not Date Scheduled Scheduled Scheduled Scheduled Zone Date Scheduled Scheduled Scheduled Scheduled Date Scheduled Scheduled Scheduled Scheduled Zone Zone WEST MHK VL DUNWOD 1,609 797 Jan-19 9,007 5,211 Jan-19 1,171 117 1,965 471 Jan-19 1,370 798 2,651 203 Feb-19 6,628 2,000 1,397 921 Feb-19 872 75 1,709 596 Feb-19 1,064 494 3,273 259 471 Mar-19 5,264 2,548 1,107 569 Mar-19 1,275 113 2,208 386 Mar-19 1,159 3,571 199 9,744 2,589 721 461 843 43 1,904 331 Apr-19 1,446 125 3,278 228 Apr-19 Apr-19 May-19 May-19 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 GENESE 527 153 3,560 529 CAPITL 962 N.Y.C. 2,599 Jan-19 Jan-19 3,042 1,550 1,424 Jan-19 3,665 3,061 1,366 Feb-19 3.776 520 485 Feb-19 896 66 Feb-19 2.591 1,851 1,756 2.545 2,025 2,248 1.648 Mar-19 987 241 3,224 432 Mar-19 2,012 383 2,004 Mar-19 3,746 1,774 2,432 968 1,666 808 4,479 475 Apr-19 83 Apr-19 1,585 232 Apr-19 3,431 2,869 4,012 2,102 1,111 656 May-19 May-19 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 NORTH 484 6,406 HUD VL 980 7,130 LONGIL Jan-19 540 1,553 Jan-19 856 9,176 Jan-19 3,362 2,135 3,091 1,056 Feb-19 431 359 6,559 1,743 Feb-19 977 843 7,858 Feb-19 1,297 3,446 1,425 7,408 2,514 Mar-19 349 419 6,855 1,845 Mar-19 1,460 1,425 8,787 4,948 Mar-19 2,752 1,198 3,372 1,025 Apr-19 284 186 7,243 1,823 Apr-19 1,011 487 8,845 Apr-19 4,934 1,386 3,096 7,962 697 May-19 May-19 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19 Dec-19 Dec-19 Dec-19 CENTRL Jan-19 3,795 374 30,145 507 MILLWD Jan-19 405 386 2,051 169 **NYISO** Jan-19 27,683 14,720 64,802 15,203 Feb-19 3,059 123 29,111 609 Feb-19 540 138 1,311 247 Feb-19 22,118 7,905 62,089 17,582 Mar-19 3,411 332 25,195 542 Mar-19 505 89 1,404 155 Mar-19 22,918 8,993 60,159 12,736 Apr-19 150 22.748 453 686 215 371 Apr-19 28.247 58.038 3.475 Apr-19 1,636 6.153 18.807 May-19 May-19 May-19 Jun-19 Jun-19 Jun-19 Jul-19 Jul-19 Jul-19 Aug-19 Aug-19 Aug-19 Sep-19 Sep-19 Sep-19 Oct-19 Oct-19 Oct-19 Nov-19 Nov-19 Nov-19

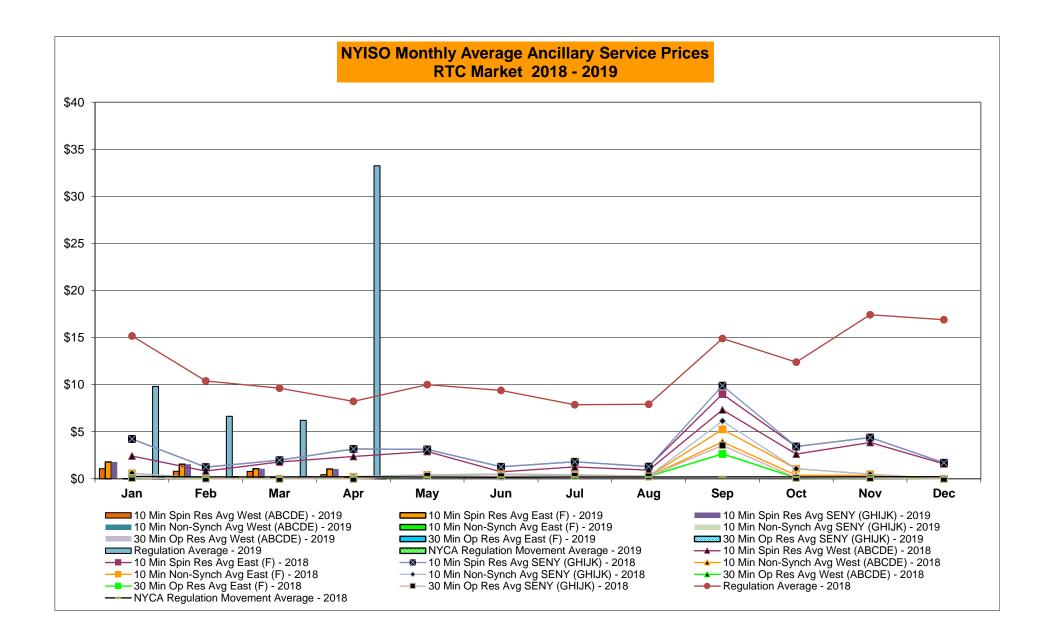
Dec-19

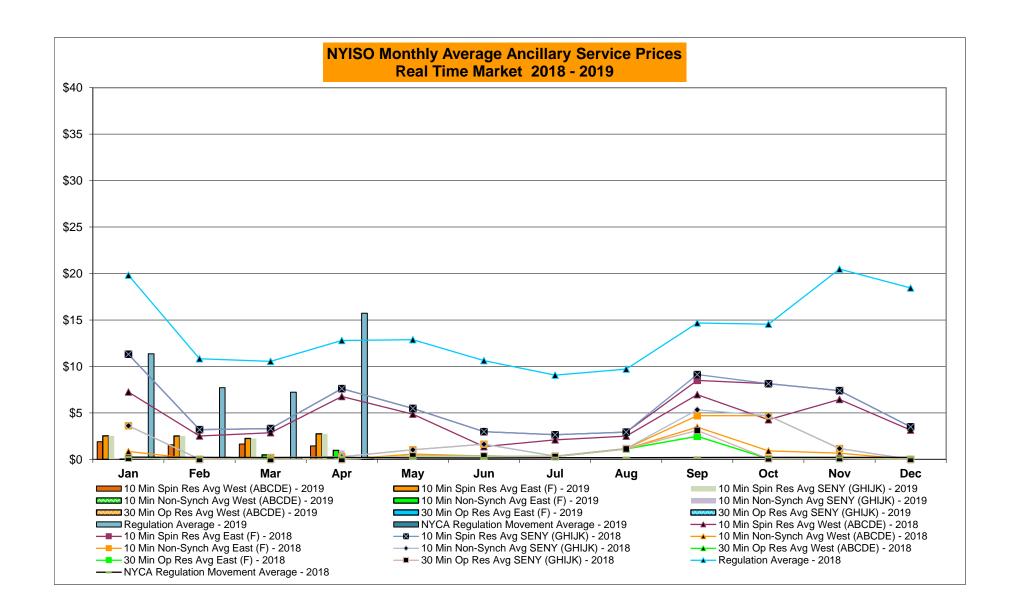
Dec-19

Dec-19





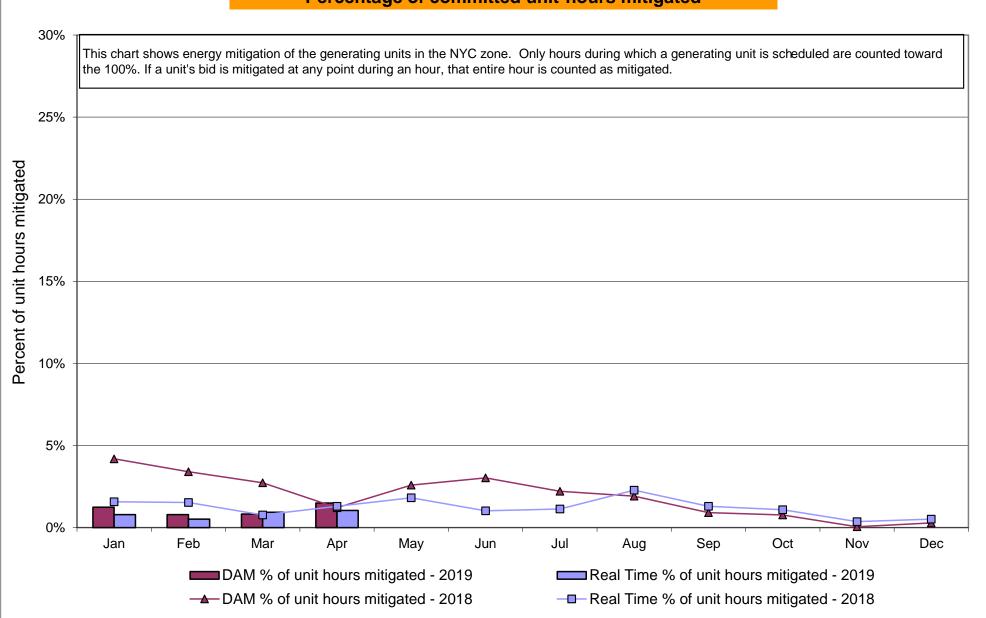


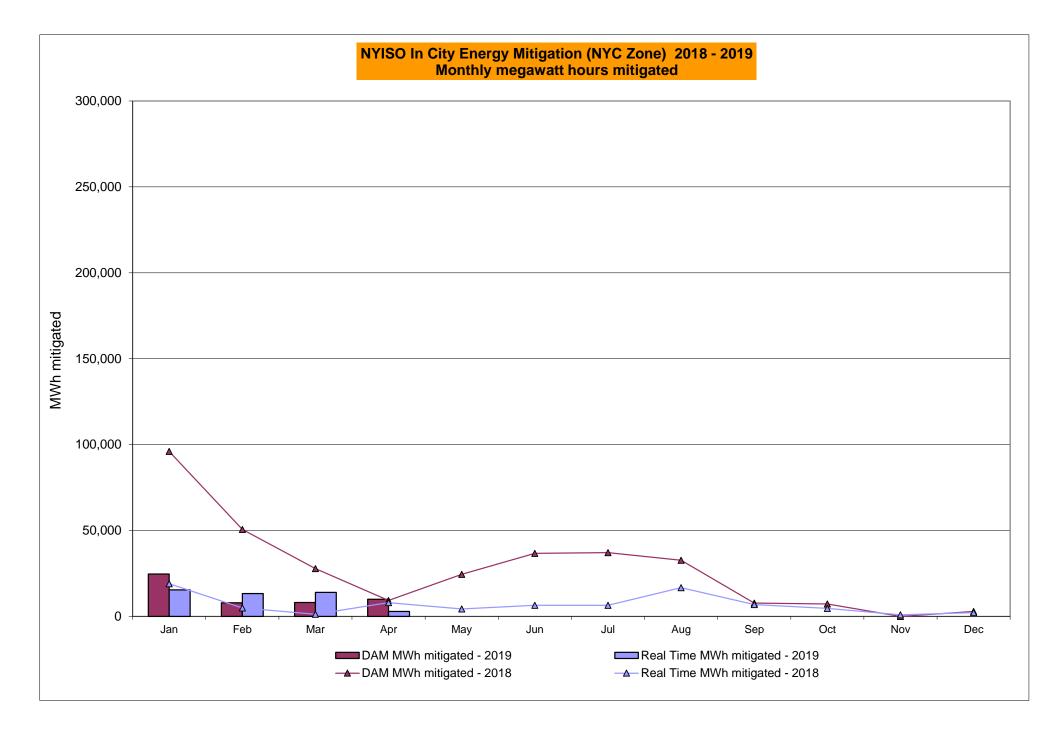


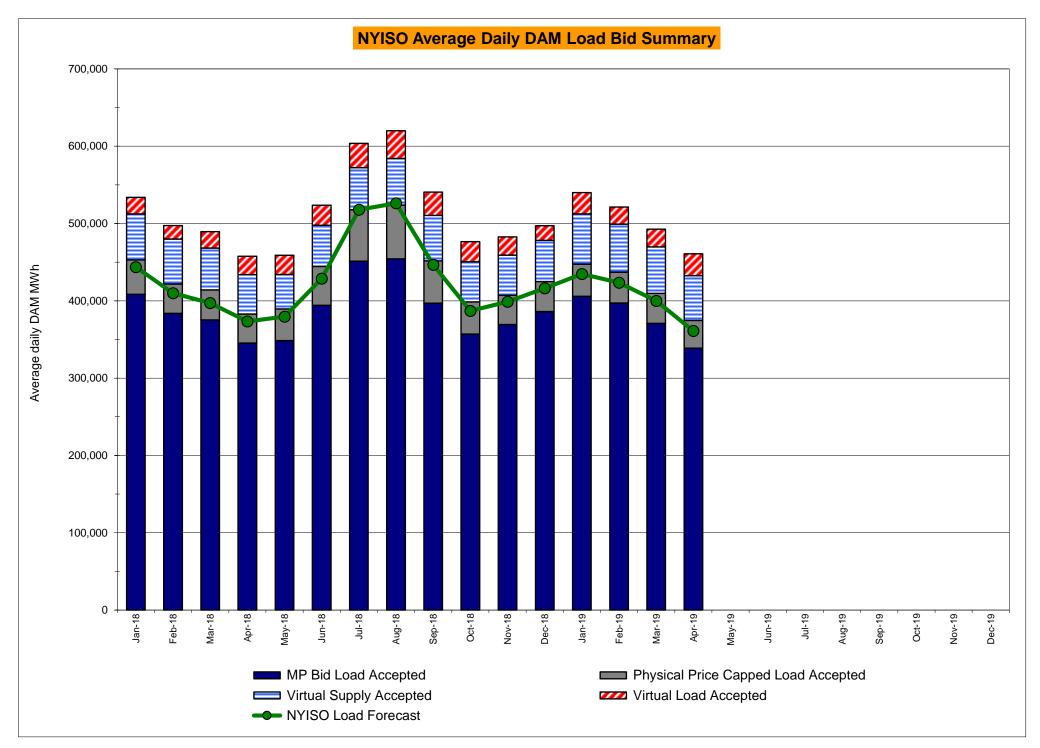
## NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH)

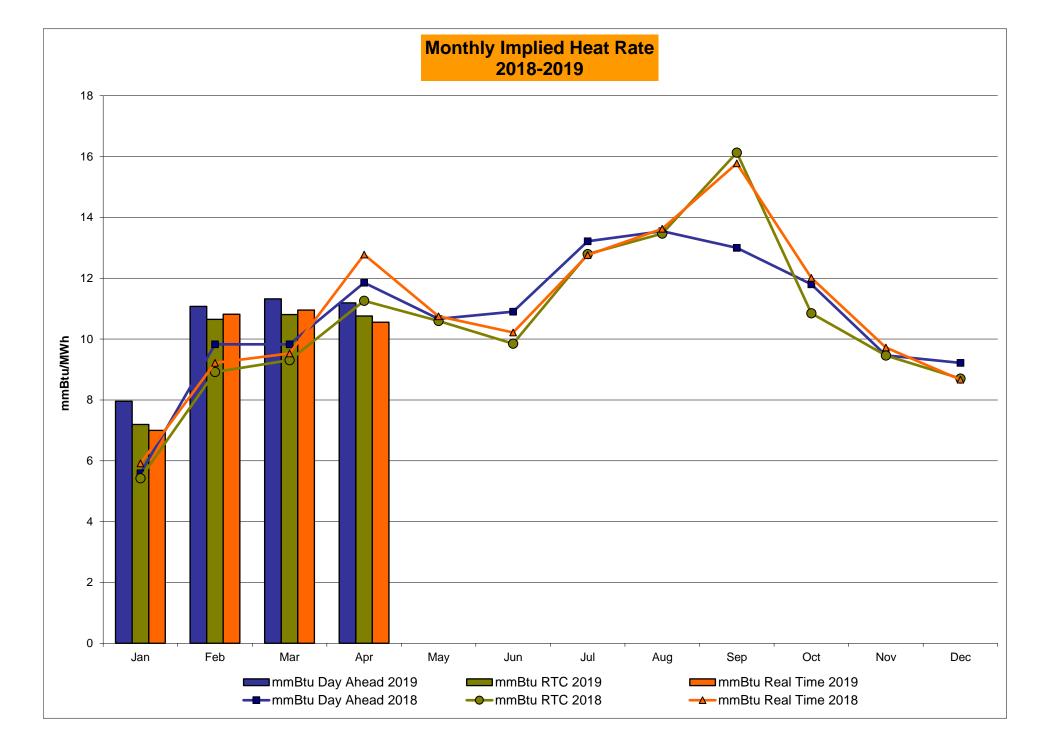
	IN LIGO IN	iai kets A	iloillai y C	CI VICCS	<u> </u>	3 Olive	igiitea i	1100 (ψ/				
2019	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	December
Day Ahead Market	<u></u>	<u> </u>				<u> </u>	<u>,</u>					
10 Min Spin SENY (GHIJK)	5.47	4.17	4.61	4.46								
10 Min Spin East (F)	5.47	4.17	4.61	4.46								
10 Min Spin West (ABCDE)	4.56	3.94	4.30	4.01								
10 Min Non Synch SENY (GHIJK)	3.88	3.75	3.57	3.96								
10 Min Non Synch East (F)	3.88	3.75	3.57	3.96								
10 Min Non Synch West (ABCDE)	3.86	3.74	3.47	3.73								
30 Min SENY (GHIJK)	3.86	3.74	3.46	3.71								
30 Min East (F)	3.86	3.74	3.46	3.71								
30 Min West (ABCDE)	3.86	3.74	3.46	3.71								
Regulation	11.94	7.69	6.62	27.38								
RTC Market												
10 Min Spin SENY (GHIJK)	1.80	1.55	1.08	1.04								
10 Min Spin East (F)	1.80	1.55	1.08	1.04								
10 Min Spin West (ABCDE)	1.08	0.80	0.79	0.44								
10 Min Non Synch SENY (GHIJK)	0.01	0.08	0.11	0.13								
10 Min Non Synch East (F)	0.01	0.08	0.11	0.13								
10 Min Non Synch West (ABCDE)	0.00	0.01	0.01	0.00								
30 Min SENY (GHIJK) 30 Min East (F)	0.00 0.00	0.01	0.01	0.00 0.00								
30 Min West (ABCDE)	0.00	0.01 0.01	0.01 0.01	0.00								
Regulation	9.81	6.64	6.21	33.26								
NYCA Regulation Movement	0.23	0.22	0.21	0.25								
_	0.20	0.22	0.21	0.20								
Real Time Market	0.50	0.54	0.04	0.75								
10 Min Spin SENY (GHIJK)	2.53	2.51	2.24	2.75								
10 Min Spin East (F) 10 Min Spin West (ABCDE)	2.53	2.51	2.24	2.75								
10 Min Non Synch SENY (GHIJK)	1.89 0.03	1.57 0.18	1.64 0.48	1.45 0.96								
10 Min Non Synch East (F)	0.03	0.18	0.48	0.96								
10 Min Non Synch West (ABCDE)	0.00	0.01	0.09	0.17								
30 Min SENY (GHIJK)	0.00	0.01	0.03	0.00								
30 Min East (F)	0.00	0.01	0.03	0.00								
30 Min West (ABCDE)	0.00	0.01	0.03	0.00								
Regulation	11.36	7.72	7.23	15.73								
NYCA Regulation Movement	0.22	0.22	0.20	0.25								
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	<u>December</u>
Day Ahead Market												
Day Ahead Market  10 Min Spin SENY (GHIJK)	9.93	5.24	5.97	7.45	5.52	4.98	4.95	4.91	6.04	8.37	6.93	4.99
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)	9.93 9.93	5.24 5.24	5.97 5.97	7.45 7.45	5.52 5.52	4.98 4.98	4.95 4.95	4.91 4.91	6.04 6.04	8.37 8.37	6.93 6.93	4.99 4.99
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)	9.93 9.93 8.49	5.24 5.24 4.53	5.97 5.97 4.78	7.45 7.45 5.73	5.52 5.52 4.65	4.98 4.98 4.26	4.95 4.95 3.98	4.91 4.91 4.30	6.04 6.04 5.18	8.37 8.37 6.36	6.93 6.93 6.57	4.99 4.99 4.86
Day Ahead Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)	9.93 9.93 8.49 6.99	5.24 5.24 4.53 4.54	5.97 5.97 4.78 4.48	7.45 7.45 5.73 5.05	5.52 5.52 4.65 4.26	4.98 4.98 4.26 4.09	4.95 4.95 3.98 4.49	4.91 4.91 4.30 4.43	6.04 6.04 5.18 4.51	8.37 8.37 6.36 5.69	6.93 6.93 6.57 4.00	4.99 4.99 4.86 3.71
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)	9.93 9.93 8.49 6.99 6.99	5.24 5.24 4.53 4.54 4.54	5.97 5.97 4.78 4.48 4.48	7.45 7.45 5.73 5.05 5.05	5.52 5.52 4.65 4.26 4.26	4.98 4.98 4.26 4.09 4.09	4.95 4.95 3.98 4.49 4.49	4.91 4.91 4.30 4.43 4.43	6.04 6.04 5.18 4.51 4.51	8.37 8.37 6.36 5.69 5.69	6.93 6.93 6.57 4.00 4.00	4.99 4.99 4.86 3.71 3.71
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)	9.93 9.93 8.49 6.99 6.99 6.15	5.24 5.24 4.53 4.54 4.54 4.36	5.97 5.97 4.78 4.48 4.48 3.54	7.45 7.45 5.73 5.05 5.05 4.31	5.52 5.52 4.65 4.26 4.26 4.13	4.98 4.98 4.26 4.09 4.09 3.85	4.95 4.95 3.98 4.49 4.49 3.80	4.91 4.91 4.30 4.43 4.43 4.03	6.04 6.04 5.18 4.51 4.51 3.95	8.37 8.37 6.36 5.69 5.69 4.31	6.93 6.93 6.57 4.00 4.00 3.97	4.99 4.99 4.86 3.71 3.71 3.70
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)	9.93 9.93 8.49 6.99 6.15 6.14	5.24 5.24 4.53 4.54 4.54 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
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)	9.93 9.93 8.49 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
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)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70 3.70 3.70
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	9.93 9.93 8.49 6.99 6.15 6.14 6.14	5.24 5.24 4.53 4.54 4.54 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54	7.45 7.45 5.73 5.05 5.05 4.31 4.31	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02	6.04 6.04 5.18 4.51 4.51 3.95 3.94	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97	4.99 4.99 4.86 3.71 3.71 3.70 3.70
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)  Regulation  RTC Market	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97	4.99 4.86 3.71 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47	4.99 4.89 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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 Spin West (ABCDE)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07
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 Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.01	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30 1.28 1.28 0.74 0.49 0.49	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.27 0.42 0.42	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.27	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07 1.71 1.58 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)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99 1.81 1.81 1.27 0.42 0.42 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07 0.38	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 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 East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min East (F)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 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 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	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 8.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 9.39	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 14.90	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90
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 East (F)  30 Min East (F)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 0.25	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 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 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	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 8.22	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 9.39	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 14.90	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90
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 West (ABCDE)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.98 1.79 0.01 0.01 0.00 0.00 0.00 0.00 9.63	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 8.22 0.22 7.62	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 9.39	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.27 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 14.90	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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)  30 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 9.49 3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 8.22 0.22 7.62 7.62	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22
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 West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min 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 East (F)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 14.90 0.20 9.13 8.50 6.96	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 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)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07 0.38 0.11 0.11 0.11 12.40 0.21	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 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  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26	5.24 5.24 4.53 4.54 4.54 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.01	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 3.31 2.86 0.19 0.19	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.35	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.16	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.49 3.15 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 West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  10 Min Spin East (F)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch SENY (GHIJK)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.03 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.01 0.00	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.019	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.33 0.32 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 0.27	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.35 0.29	4.91 4.91 4.30 4.43 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.16 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 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 East (F)  10 Min Non Synch West (ABCDE)  30 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  RTC Market  10 Min Spin SENY (GHIJK)  10 Min Spin 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 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)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.09 0.09	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.29 0.29	4.91 4.91 4.30 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.16 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  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)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 3.61 3.85 0.13 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5.97 5.97 4.78 4.48 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 3.31 2.86 0.19 0.19 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 1.63 0.37 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.35 0.29 0.29 0.29	4.91 4.91 4.30 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11 2.48	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin East (F)  10 Min Spin East (F)  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 East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min East (F)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 0.85 0.13 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.0	5.97 5.97 4.78 4.48 4.48 3.54 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 2.86 0.19 0.19 0.09 0.00 0.00 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 0.0	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37 0.37 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 1.63 0.37 0.37 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.29 0.29 0.29 0.29 0.29	4.91 4.91 4.30 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.12 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11 2.48 2.48	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06 0.06 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10 0.10	4.99 4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
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 SENY (GHIJK)  10 Min Spin West (ABCDE)  10 Min Non Synch SENY (GHIJK)  10 Min Non Synch East (F)  10 Min Non Synch West (ABCDE)  30 Min SENY (GHIJK)  30 Min East (F)  30 Min West (ABCDE)  Regulation  NYCA Regulation Movement  Real Time Market  10 Min Spin SENY (GHIJK)  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)	9.93 9.93 8.49 6.99 6.15 6.14 6.14 6.14 15.51 4.23 4.23 2.43 0.59 0.59 0.08 0.08 0.08 15.17 0.26 11.31 11.31 7.24 3.61 3.61 3.61 3.85 0.13 0.13	5.24 5.24 4.53 4.54 4.36 4.36 4.36 4.36 4.36 10.70 1.24 1.24 0.82 0.03 0.02 0.02 0.02 0.02 0.02 10.40 0.21 3.19 3.19 2.52 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5.97 5.97 4.78 4.48 4.48 4.48 3.54 3.54 3.54 3.54 10.68 1.98 1.79 0.01 0.00 0.00 0.00 0.00 0.00 0.00 9.63 0.20 3.31 3.31 3.31 2.86 0.19 0.19 0.00 0.00 0.00	7.45 7.45 5.73 5.05 5.05 4.31 4.31 4.31 4.31 9.49  3.17 2.38 0.22 0.22 0.00 0.00 0.00 0.00 0.00 8.22 0.22  7.62 7.62 7.62 7.62 6.77 0.28 0.28 0.00 0.00 0.00 0.00 0.00 0.00	5.52 5.52 4.65 4.26 4.13 4.13 4.13 4.13 12.11 3.13 3.13 2.91 0.42 0.42 0.42 0.33 0.32 0.32 0.32 10.01 0.19 5.48 5.48 4.86 1.03 1.03 0.57 0.37 0.37	4.98 4.98 4.26 4.09 4.09 3.85 3.85 3.85 3.85 11.30  1.28 1.28 0.74 0.49 0.49 0.27 0.27 0.27 0.27 0.27 0.27 0.27 1.63 1.63 1.63 1.63 0.37 0.37 0.37	4.95 4.95 3.98 4.49 4.49 3.80 3.79 3.79 3.79 6.99  1.81 1.81 1.27 0.42 0.42 0.33 0.33 0.33 0.33 7.87 0.19  2.65 2.65 2.10 0.35 0.35 0.29 0.29 0.29	4.91 4.91 4.30 4.43 4.03 4.02 4.02 4.02 8.00 1.29 1.29 0.93 0.27 0.25 0.25 0.25 0.25 7.92 0.19 2.93 2.93 2.50 1.16 1.12 1.12	6.04 6.04 5.18 4.51 4.51 3.95 3.94 3.94 3.94 8.54 9.90 9.00 7.33 6.14 5.25 3.92 3.55 2.65 2.65 14.90 0.20 9.13 8.50 6.96 5.33 4.70 3.47 3.11 2.48	8.37 8.37 6.36 5.69 5.69 4.31 4.22 4.22 4.22 12.88 3.43 2.63 1.07 1.07 0.38 0.11 0.11 12.40 0.21 8.14 8.14 4.26 4.70 4.70 0.92 0.06 0.06	6.93 6.93 6.57 4.00 4.00 3.97 3.97 3.97 3.97 14.47 4.39 4.39 3.85 0.50 0.50 0.38 0.09 0.09 17.43 0.22 7.39 7.39 6.45 1.16 1.16 0.67 0.10	4.99 4.86 3.71 3.70 3.70 3.70 3.70 3.70 3.70 14.07  1.71 1.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.90 0.22  3.49 3.49 3.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0

# NYISO In City Energy Mitigation - AMP (NYC Zone) 2018 - 2019 Percentage of committed unit-hours mitigated

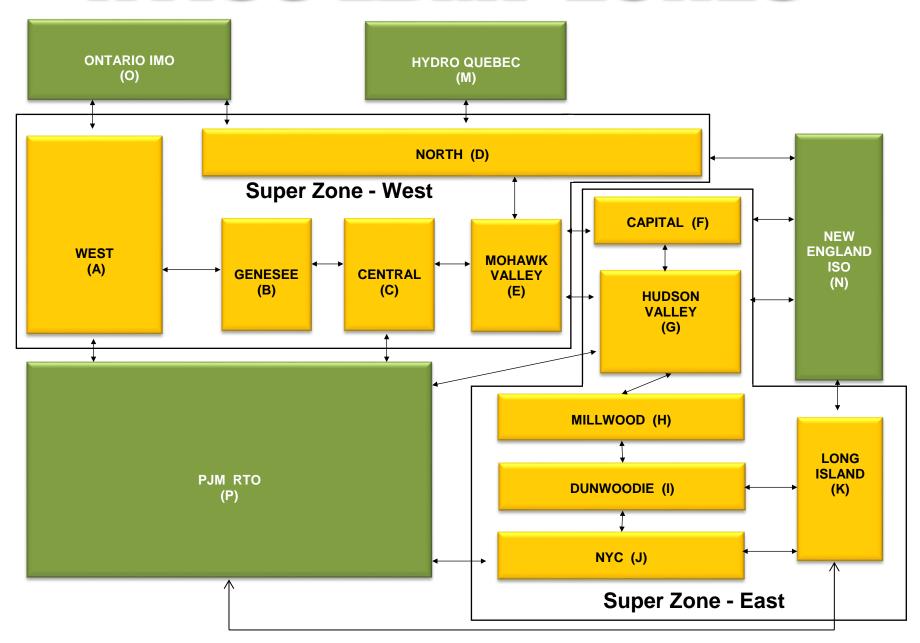








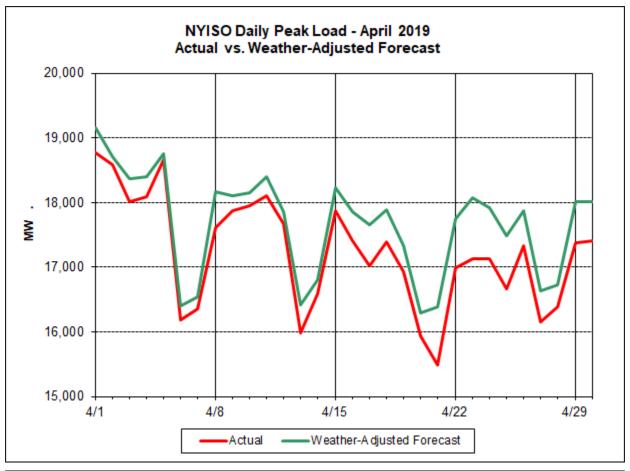
# NYISO LBMP ZONES

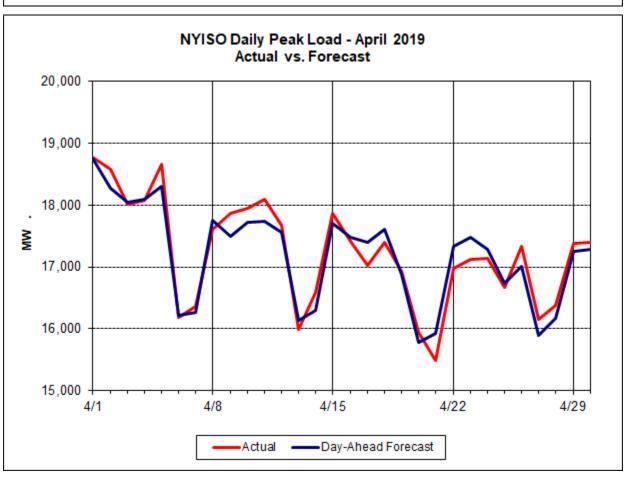


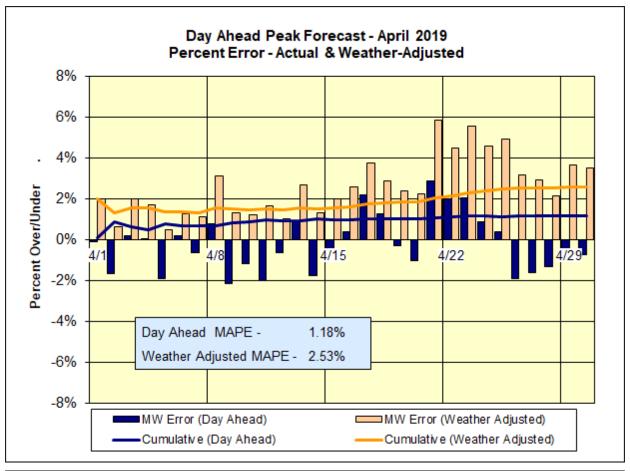
#### **Billing Codes for Chart C**

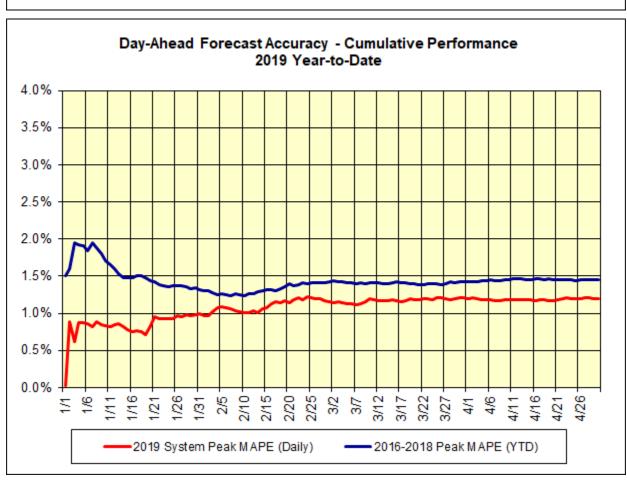
Chart - C Category Name	<b>Billing Code</b>	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost 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: 5/8/2019 11:48 AM









# Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – April 2019

Filing	Filing Summary	Docket No.	Order	Order Summary
Date			Date	
04/01/2019	NYISO compliance filing re: annual report on unreserved use and late study penalties	OA08-109-000		No order to be issued.
04/10/2019	NYISO RMR compliance filing re: modify the Generator notification and NYISO action deadlines specified in MST Sections 23.4.5.6.4.2.1 and 23.4.5.6.4.2.2.1	ER16-120-008		
04/12/2019	NYISO filing re: Reporting Requirement No. 582 – total megawatt-hours of transmission service in interstate commerce for calendar year 2018	No Docket No.		No order to be issued.
04/12/2019	NYISO confidential filing re: Reliability Commitment Data Report for the 3-month period ending 03/31/2019	PSC Matter No. 10-02007		No order to be issued.
04/16/2019	NYISO 205 filing re: modify the credit requirement for Fixed Price Transmission Congestion Contracts ("FPTCCs") to align with all other TCCs	ER19-1581-000		
04/16/2019	NYISO filing re: FERC Form 1 annual report of major electric utilities, licensees and others for the year ending 2018	No Docket No.		No order to be issued.
04/24/2019	NYISO filing re: Q1 2019 EQR report	ER02-2001-000		No order to be issued.
04/26/2019	NYISO 205 filing re: implement a new locational operating reserves region for New York City (Load Zone J)	ER19-1678-000		