

Monthly Report

July 2019



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Operations Performance Metrics Monthly Report



July 2019 Report

Operations & Reliability Department New York Independent System Operator



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July 2019 Operations Performance Highlights

- Peak load of 30,397 MW occurred on 07/20/2019 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 25.48 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- 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	\$0.47	\$6.53
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.44)	(\$1.15)
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.57	\$0.01
Total NY Savings	\$0.60	\$5.39
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.93	\$3.57
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.08	\$0.37
Total Regional Savings	\$1.01	\$3.94

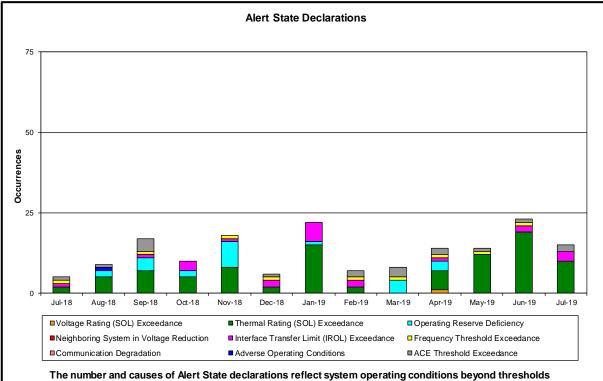
- Statewide uplift cost monthly average was (\$0.50)/MWh
- The following table identifies the Monthly ICAP spot market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
August 2019 Spot Price	\$1.36	\$4.78	\$13.39	\$5.51
July 2019 Spot Price	\$1.39	\$4.83	\$13.46	\$5.94
Delta	(\$0.03)	(\$0.05)	(\$0.07)	(\$0.43)

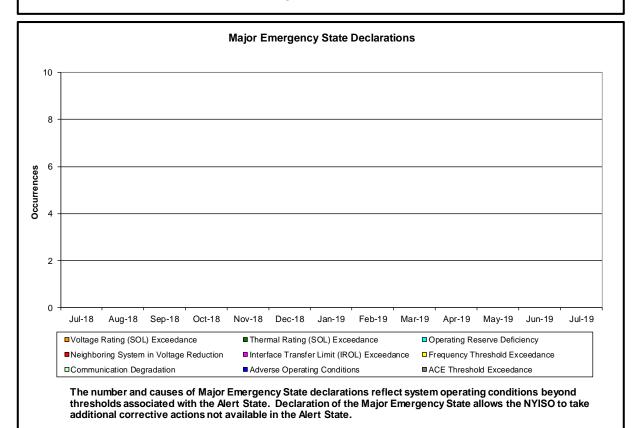
• LI - The decrease in LI Spot MCP is due to an increase in generation UCAP.



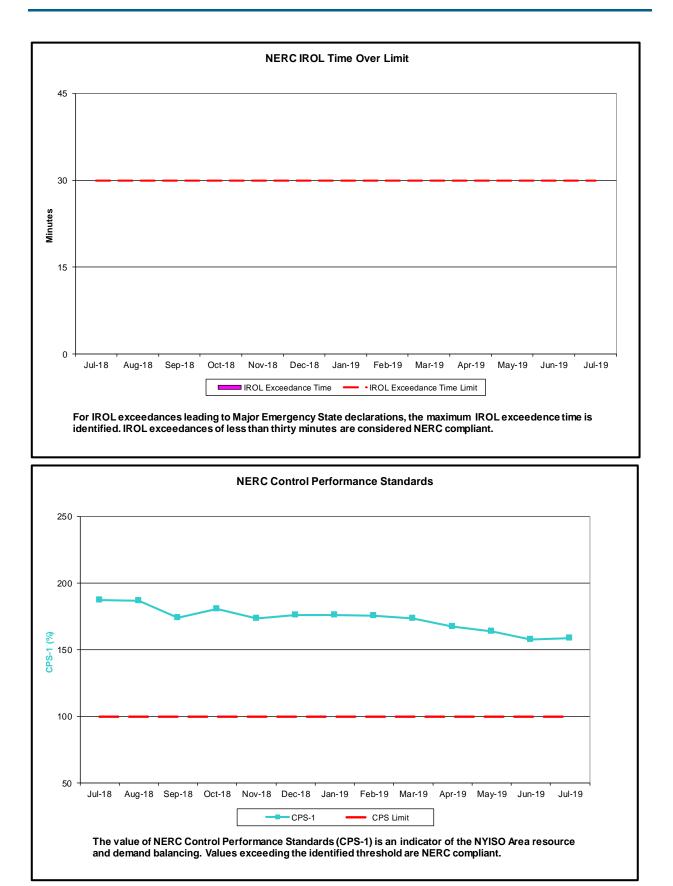
Reliability Performance Metrics



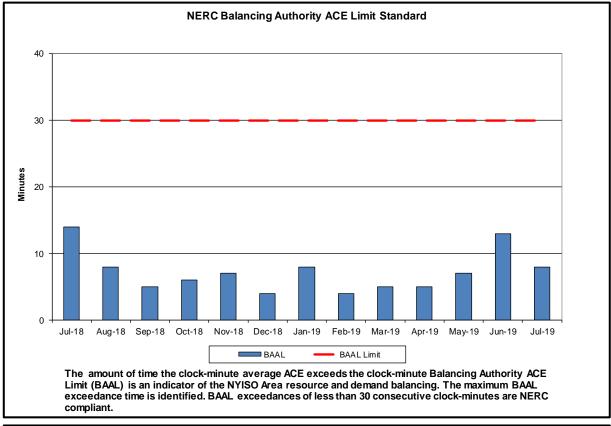
associated with Normal and Warning States. Declaration of the Alert State allows the NYISO to take corrective actions not available in the Normal and Warning States.

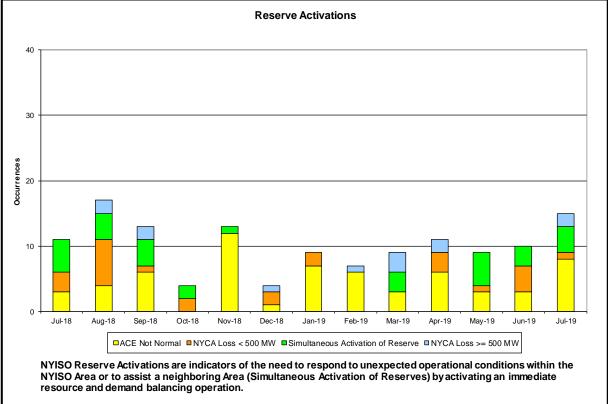




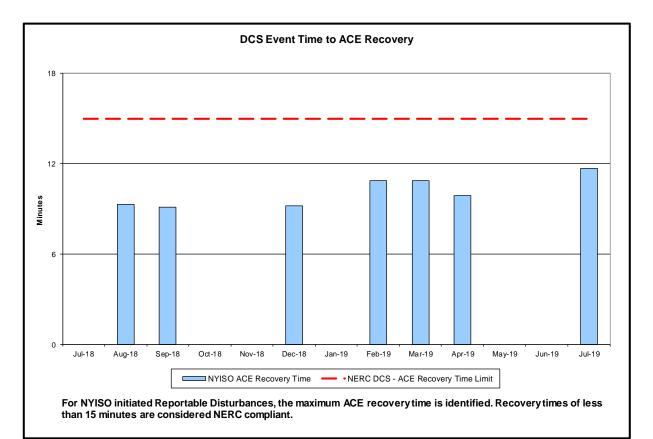


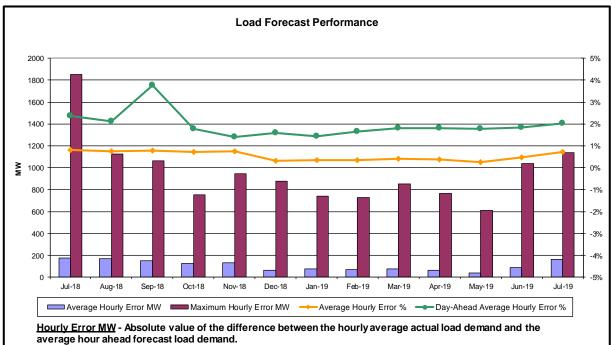








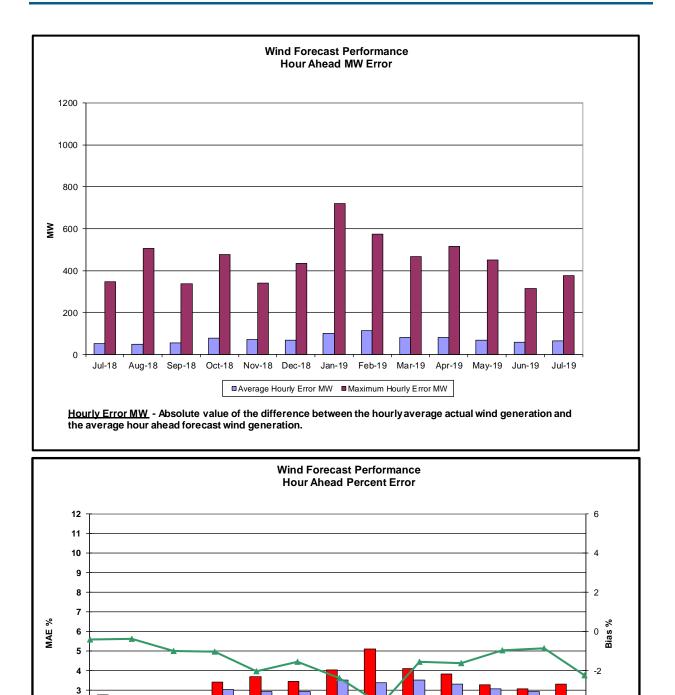


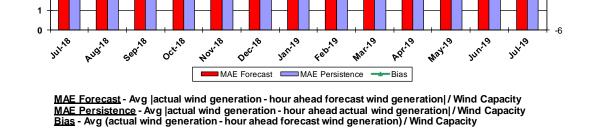


<u>Average Hourly Error %</u> - Average value of the ratio of hourly average error magnitude to hourly average actual load demand.

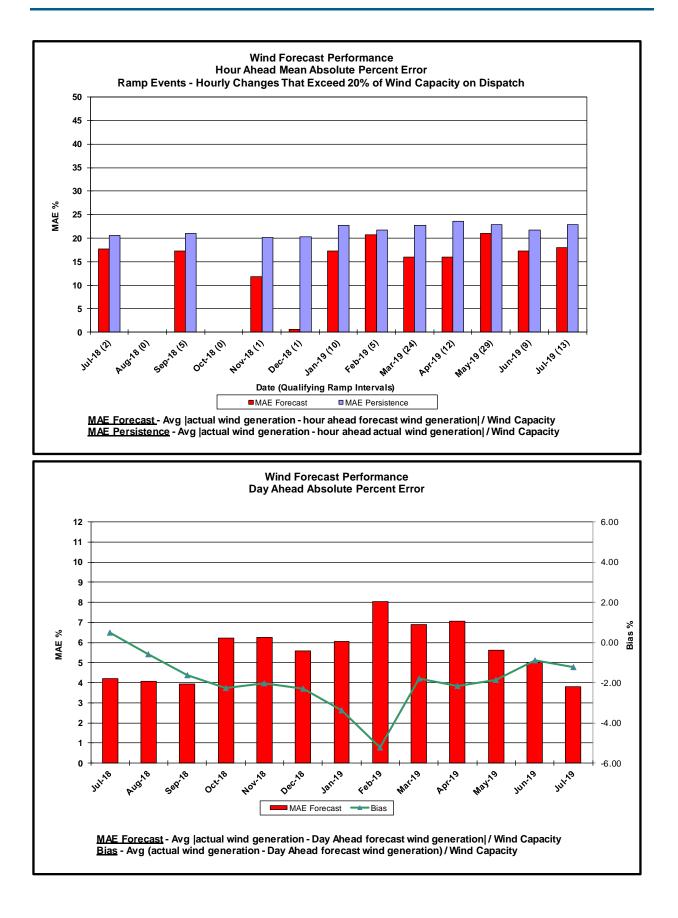
Day-Ahead Average Hourly Error % - Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.



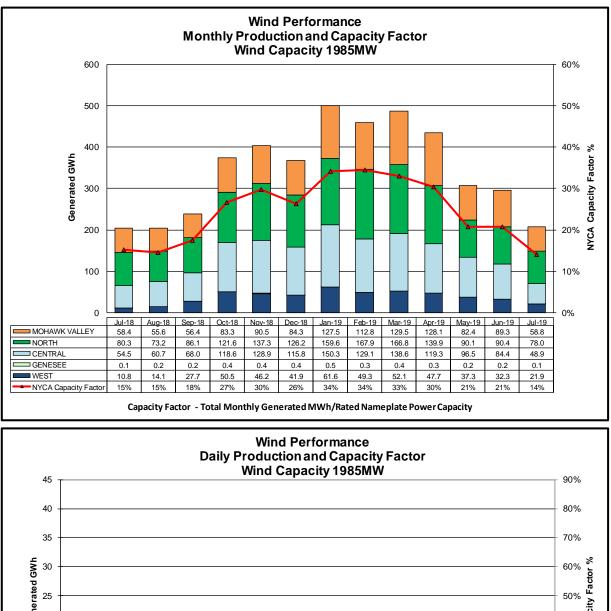


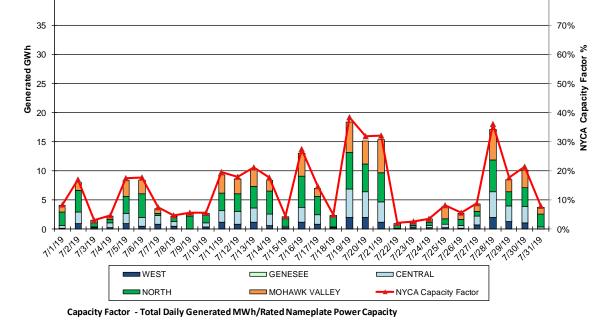




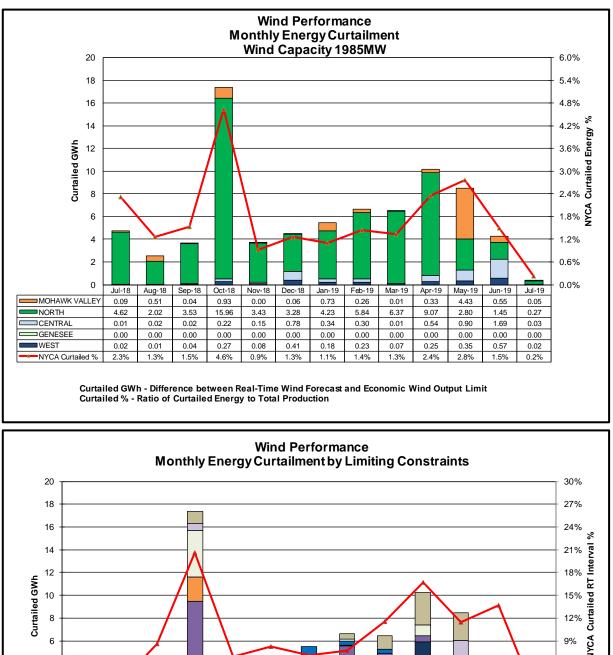


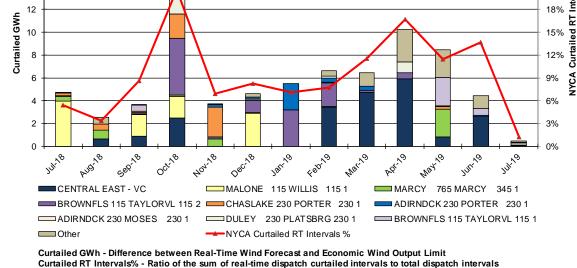




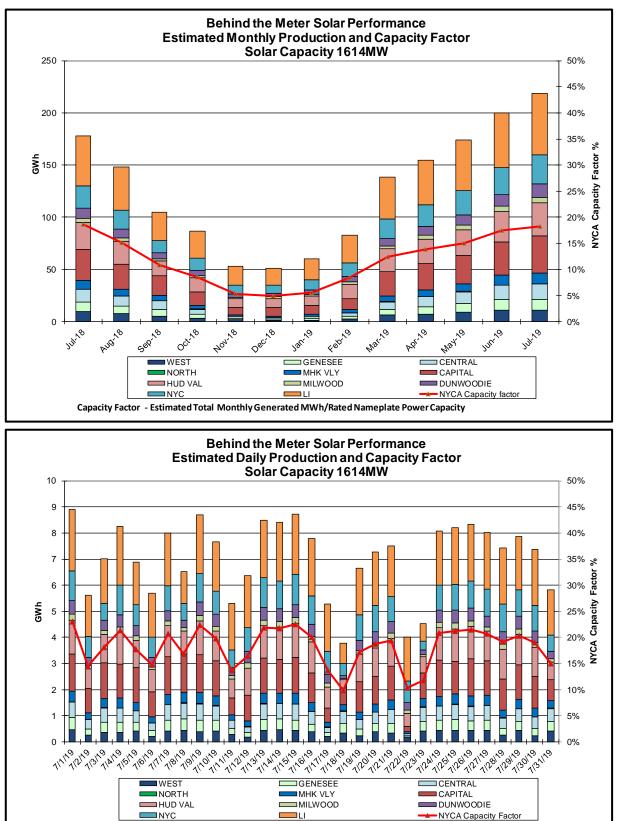


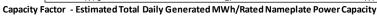




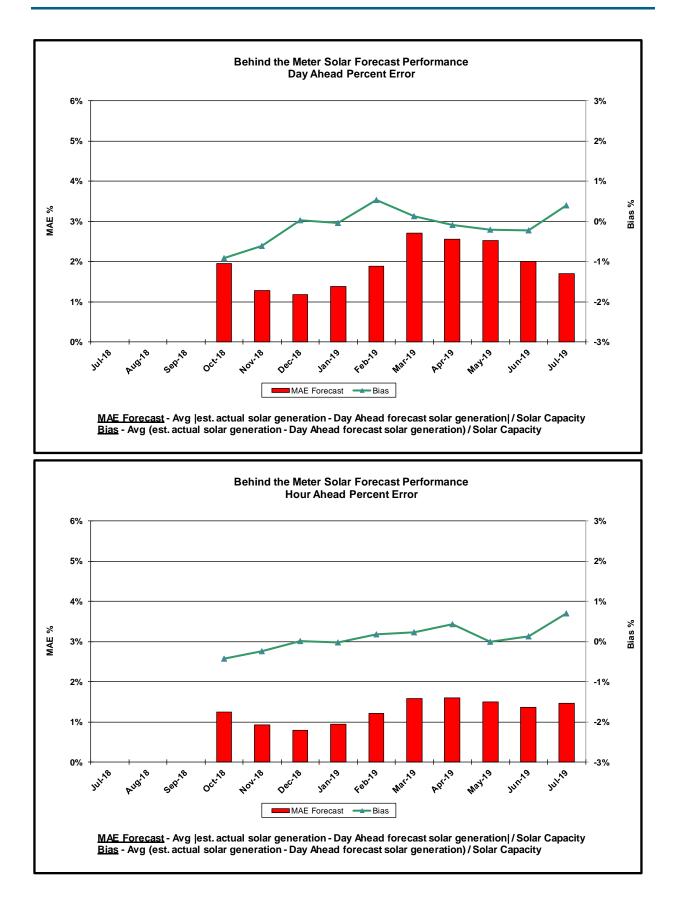




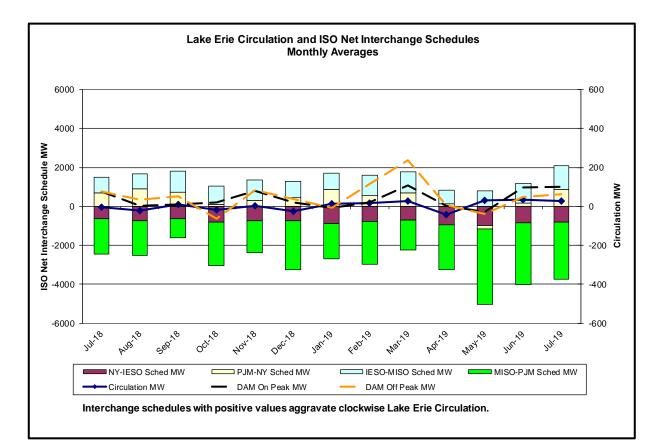


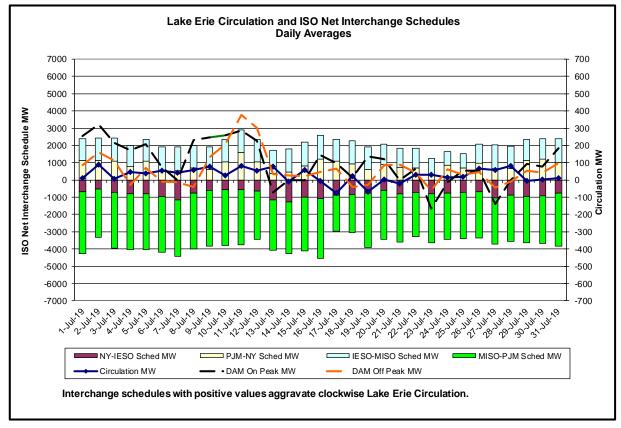




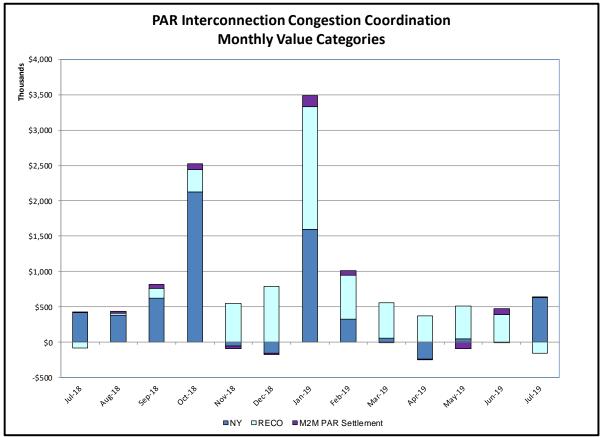




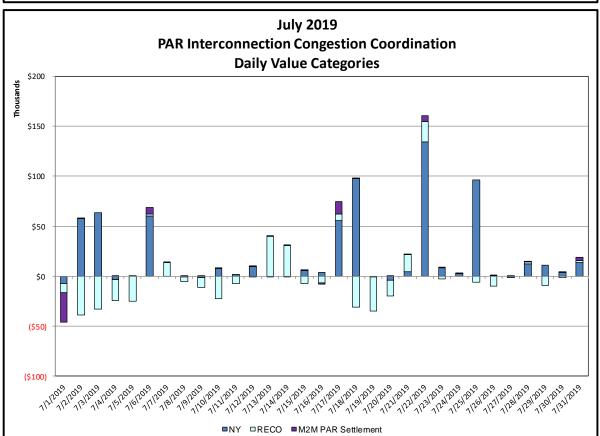








Broader Regional Market Performance Metrics



■NY □RECO ■M2M PAR Settlement



PAR Interconnection Congestion Coordination			
<u>Category</u> NY	<u>Description</u> Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY		
RECO	Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 5018. This is the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018.		
M2M PAR Settlement	Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017 this value was included in the NY and RECO categories. The positive sign convention indicates settlement to NY while the negative indicates settlement to PJM.		





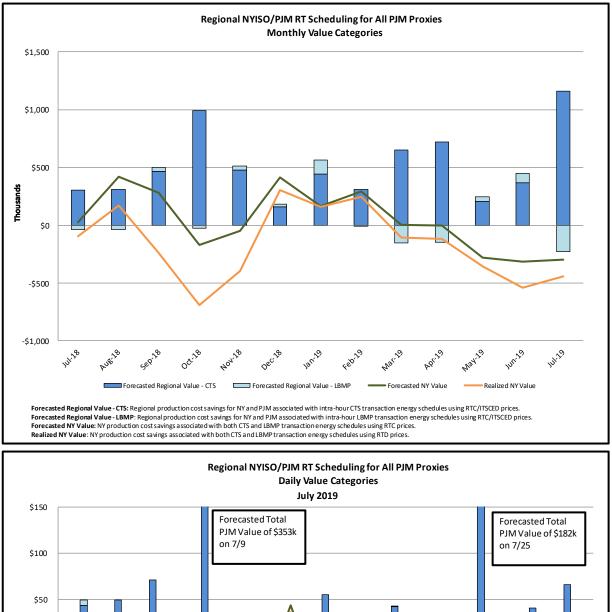


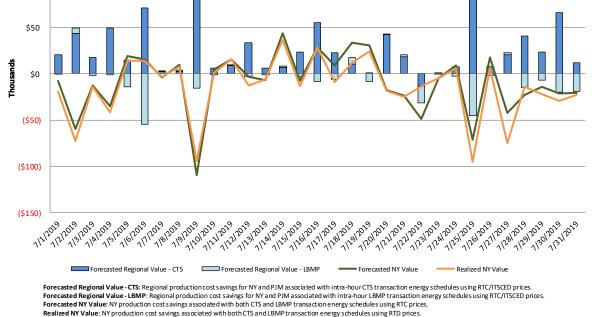
Regional Generation Congestion Coordination

<u>Category</u> NY

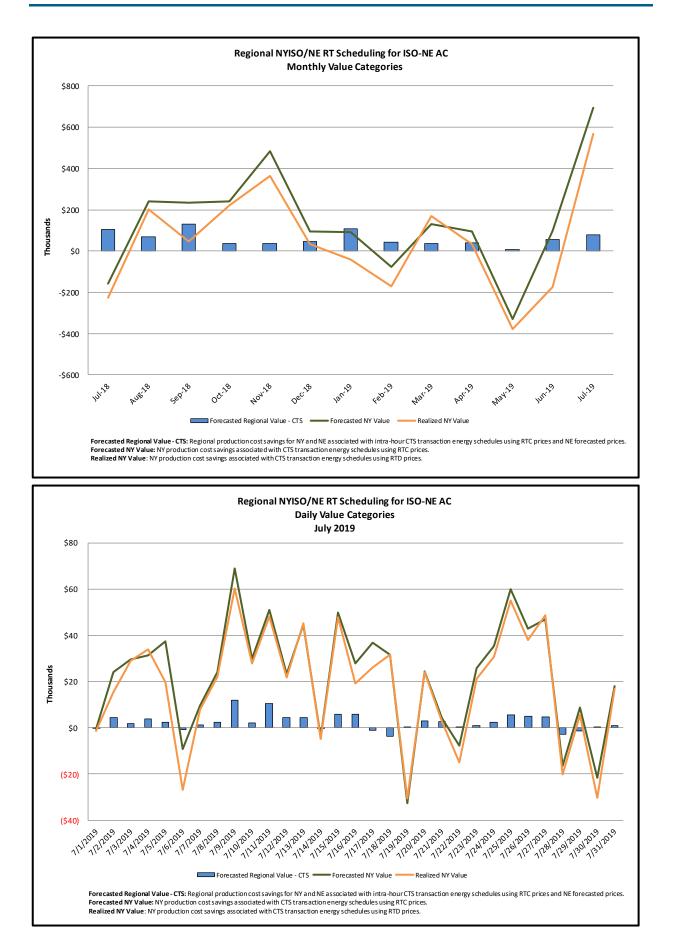
<u>Description</u> NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient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





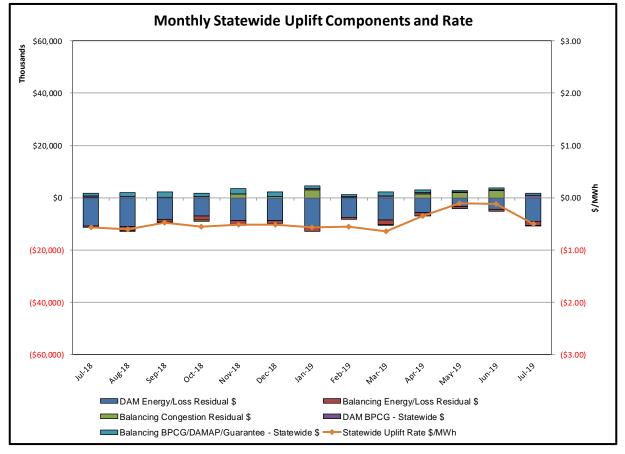




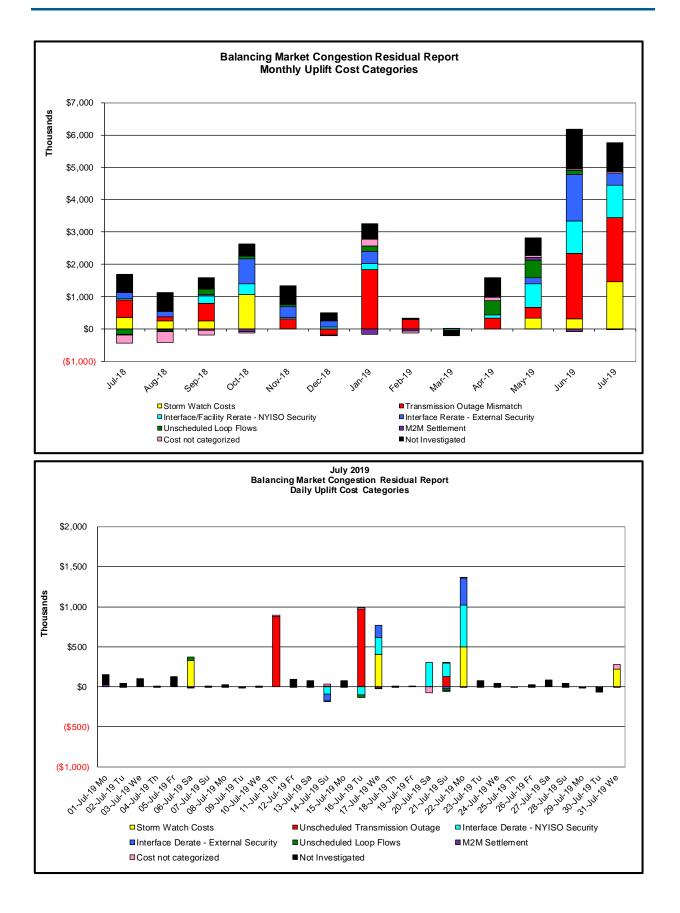




Market Performance Metrics









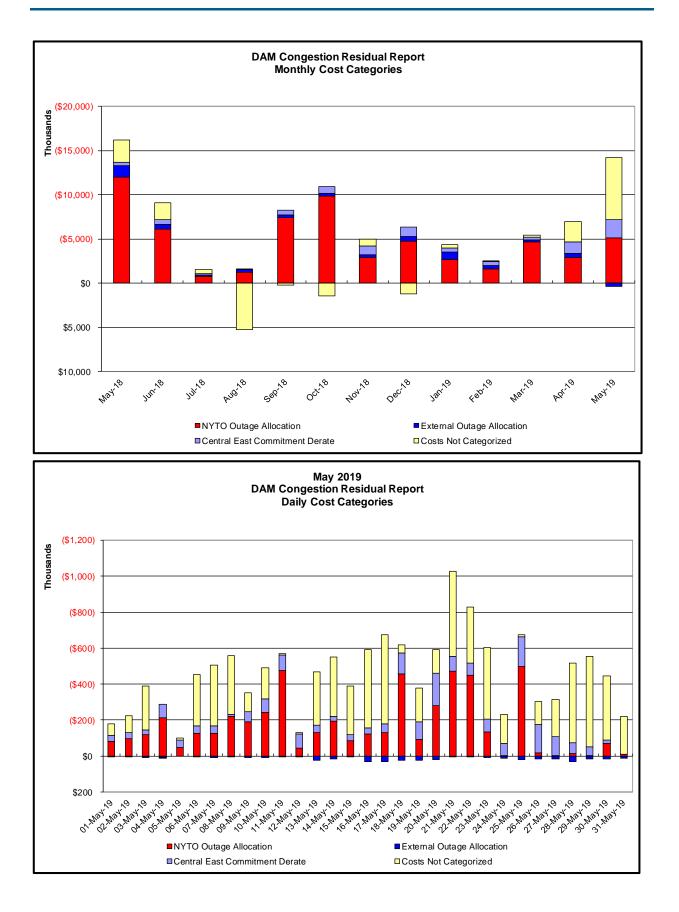
	vestigated in July:6,11, Date (yyyymmdd)	Hours	0,21,22,31 Description		
LVCIII	7/6/2019		Description Thunder Storm Alert, Leeds-Pleasant Valley 345kV		
	7/6/2019		Thunder Storm Alert, Buchanan-EastView 345kV		
	7/6/2019		Thunder Storm Alert, RockTavern-Roseton 345kV		
	7/6/2019		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West 115kV & 230kV		
	7/11/2019		Forced Outage Massena-Marcy 765kV (#MSU1), Chateaugay-Massena 765kV (#7040)		
	7/14/2019	17	NYCA DNI Ramp Limit		
	7/14/2019		Uprate East Garden City-Valley Stream 138kV (#262)		
	7/14/2019		Uprate East Garden City-Valley Stream 138kV I/o SCB:NEWBRDG 1380 461&BK6+4 (#262)		
	7/14/2019 7/14/2019		Uprate Freshkills-Willowbrook 138kV (#29211) Uprate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76		
	7/14/2019		Uprate Niagara Blvd-Packard 115kV (#181-922)		
	7/14/2019		Uprate Niagara Blvd-Packard 115kV (#181-922) I/o TWR:PACK 77 & 78 & SAWY BKS		
	7/14/2019		Uprate Pleasant Valley-Leeds 345kV (#92) I/o Athens-Pleasant Valley 345kV (#91)		
	7/14/2019		Uprate Scriba-Volney 345kV (#20) I/o Scriba-Volney 345kV (#21)		
	7/14/2019	17,20-22	NE_AC-NY Scheduling Limit		
	7/14/2019		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East		
	7/14/2019		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West 115kV & 230kV		
	7/16/2019		Forced outage Sprainbrook-East Garden City 345kV (#Y49)		
	7/16/2019		Forced outage East Garden City 345/138kV Bk(#AT1)		
	7/16/2019		Uprate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76		
	7/16/2019 7/16/2019		Uprate Freshkills-Willowbrook 138kV (#29211) Uprate Central East		
	7/16/2019		Derate Central East Derate Dunwoodie-MottHaven 345kV (#72)		
	7/16/2019		Derate Diamoode-worthaven 340kV (#72) Derate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76		
	7/16/2019		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West 115kV & 230kV		
	7/17/2019		Thunder Storm Alert, Leeds-Pleasant Valley 345kV		
	7/17/2019	14,17-21	Thunder Storm Alert, Buchanan-EastView 345kV		
	7/17/2019		Thunder Storm Alert, Chester-Shoemaker 138kV		
	7/17/2019		Forced outage East Garden City 345/138kV Bk(#AT1)		
	7/17/2019		NYCA DNI Ramp Limit		
	7/17/2019		Derate E179th-Dunwoodie South 138kV (#99153) Uprate Gowanus-Greenwood 138kV (#42231/42232)		
	7/17/2019		Uprate Gowanus-Greenwood 138kV (#4223) I/o TWR:GOETHALS 22 & 21		
	7/17/2019		Derate Motthaven-Dunwoodie 345kV (#71)		
	7/17/2019		Derate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76		
	7/17/2019		Derate Niagara Blvd-Packard 115kV (#181-922) I/o TWR:PACK 77 & 78 & SAWY BKS		
	7/17/2019	10	Derate Rainey-Vernon 138kV (#36312)		
	7/17/2019	0	Uprate Central East		
	7/17/2019		Uprate Freshkills-Willowbrook 138kV (#29211)		
	7/17/2019		NE_AC DNI Ramp Limit		
	7/17/2019		NE_AC-NY Scheduling Limit		
	7/20/2019		Uprate East 179th StHellGate 138kV (#15055) Uprate Freshkills-Willowbrook 138kV (#29211)		
	7/20/2019		Derate Gowanus-Greenwood 138kV (#42231/42232)		
	7/20/2019		Derate Greenwood-Kent Ave 138kV (#31232)		
	7/20/2019		Derate Greenwood-Vernon 138kV (#31231)		
	7/20/2019	11-16,20	Derate Lake Success-Shore Road 345kV (367/368) lo SHORE_RD-LAKSUCSS_138_368/367		
	7/20/2019	10,11	Derate Buffalo-WalckRd 115kV (#133) I/o SIN:PACKARD-BUFALO78_130		
	7/21/2019		Forced outage Chateauguay DC 1		
	7/21/2019		NYCA DNI Ramp Limit		
	7/21/2019		Derate Central East		
	7/21/2019		Uprate Central East Derate East Garden City-Valley Stream 138kV (#262) for BUS:BARRETT 292&459&G2&IC9-12		
	7/21/2019		Derate East Garden City-Valley Stream 138kV (#262) for BUS:BARRE II 292&459&G2&IC9-12 Derate Freshkills-Willowbrook 138kV (#29212)		
	7/21/2019		Uprate Gowanus-Greenwood 138kV (#42231/42232)		
	7/21/2019		Derate Greenwood-Kent Ave 138kV (#31232)		
	7/21/2019		Derate Lake Success-Shore Road 345kV (367/368) I/o SHORE_RD-LAKSUCSS_138_368/367		
	7/21/2019		Derate Buffalo-WalckRd 115kV (#133) I/o SIN:PACKARD-BUFALO78_130		
	7/21/2019	9,10	Derate East179th-Dunwoodie South 138kV (#99153)		
	7/21/2019		Derate Dunwoodie-MottHaven 345kV (#72)		
	7/21/2019		IESO_AC DNI Ramp Limit		
	7/21/2019		NE_AC-NY Scheduling Limit		
	7/21/2019		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East		
	7/22/2019		Thunder Storm Alert, Buchanan-EastView 345kV Thunder Storm Alert, Carplace-East Garden City 138kV		
	7/22/2019		Thunder Storm Alert, Leeds-Pleasant Valley 345kV		
	7/22/2019		Thunder Storm Alert, Chester-Shoemaker 138kV		
	7/22/2019		Derate Freshkills-Willowbrook 138kV (#29212)		
	7/22/2019		Derate Dunwoodie-MottHaven 345kV (#72)		
	7/22/2019		Uprate Goethals-Gowanus 345kV (#25/26)		
	7/22/2019		Uprate Gowanus-Greenwood 138kV (#42231/42232)		
	7/22/2019		NYCA DNI Ramp Limit		
			NE_AC DNI Ramp Limit		
	7/22/2019				
	7/22/2019 7/31/2019	13-16,18	Thunder Storm Alert, Buchanan-EastView 345kV		
	7/22/2019	13-16,18 14			



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

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



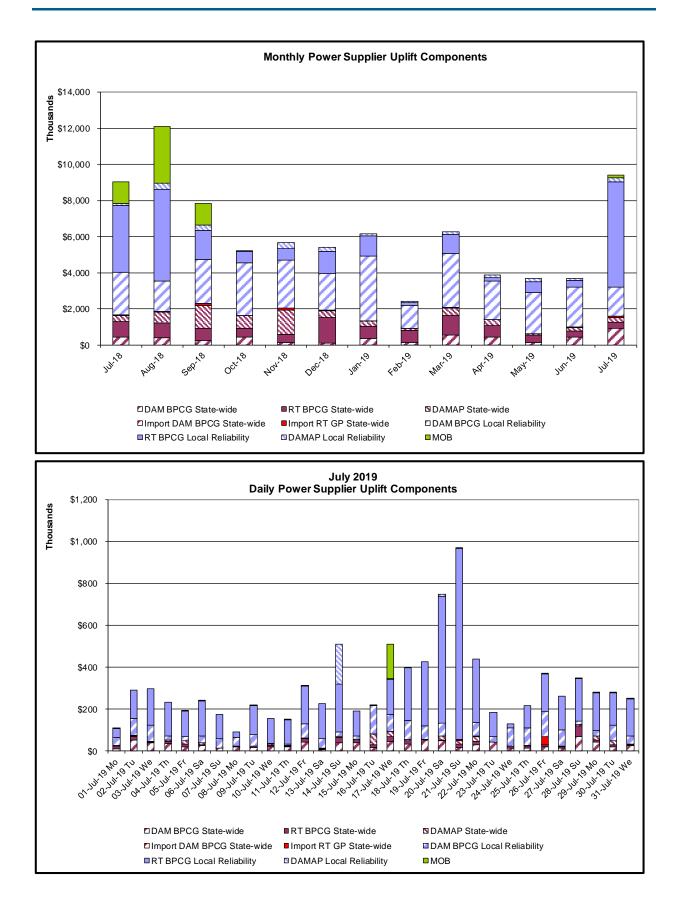




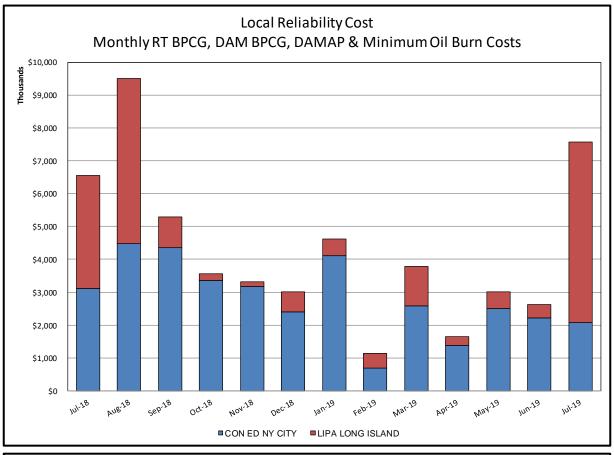
Day-Ahead Market Congestion Residual Categories

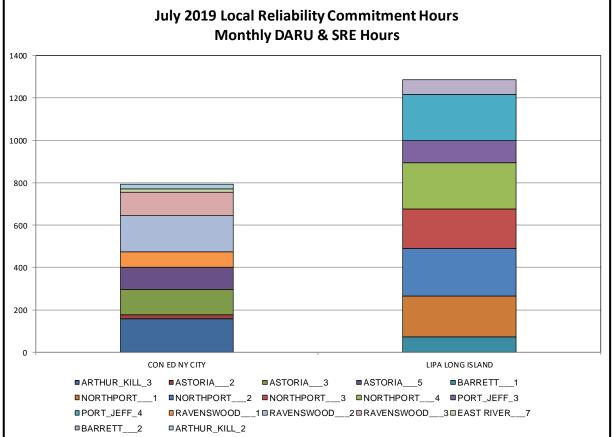
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	<u>Event Examples</u> DAM scheduled outage for equipment modeled in- service for the TCC Auction.
External Outage Allocation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



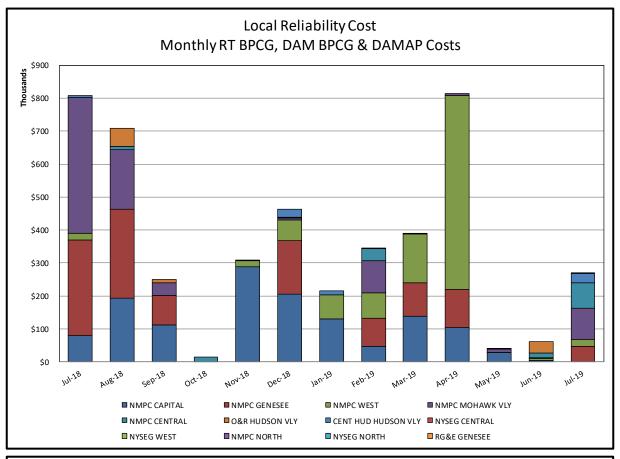


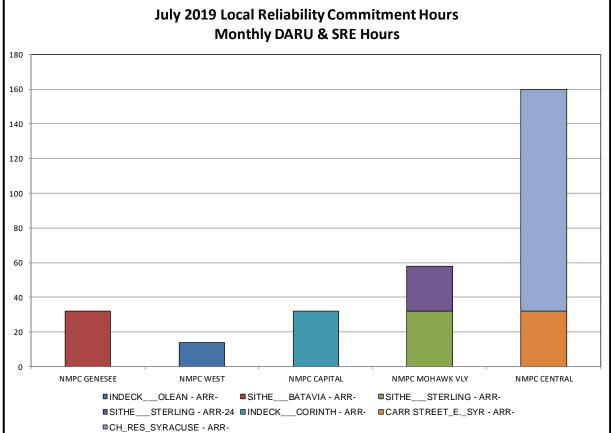




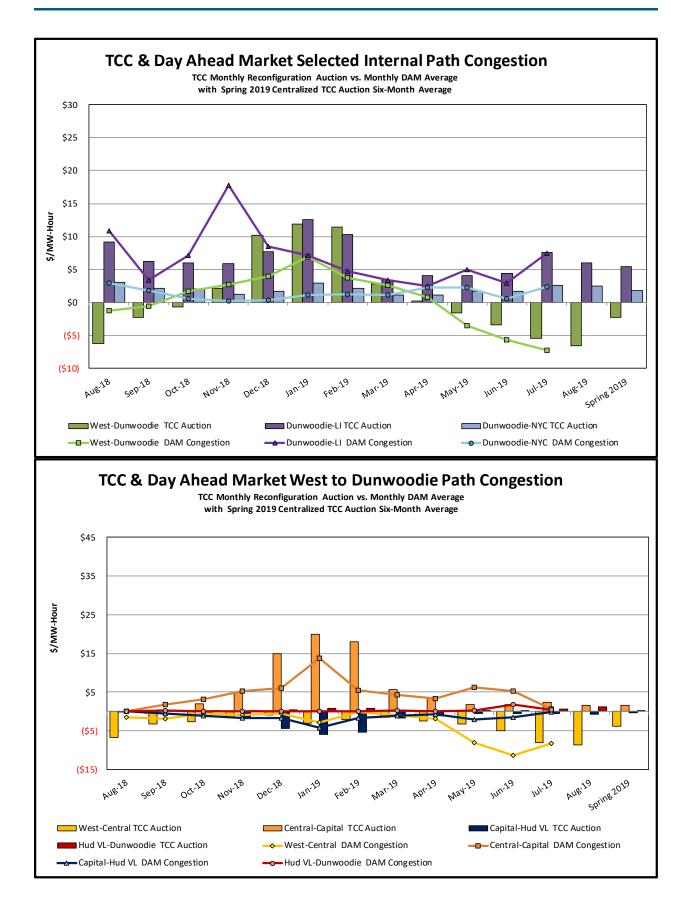




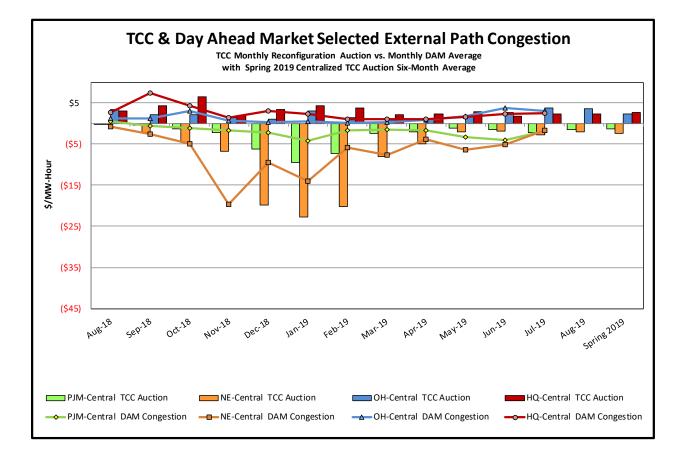




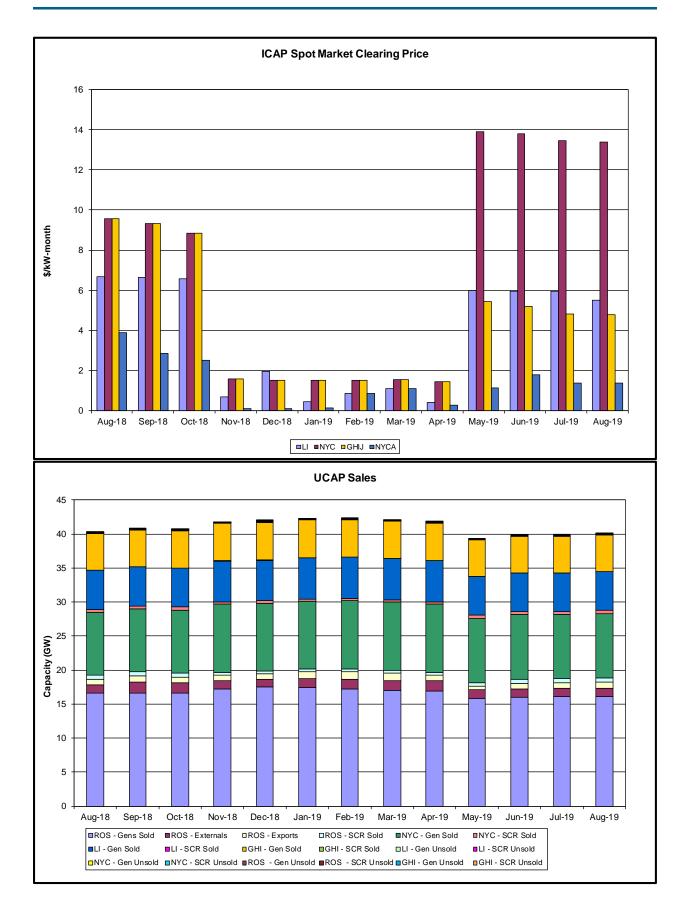






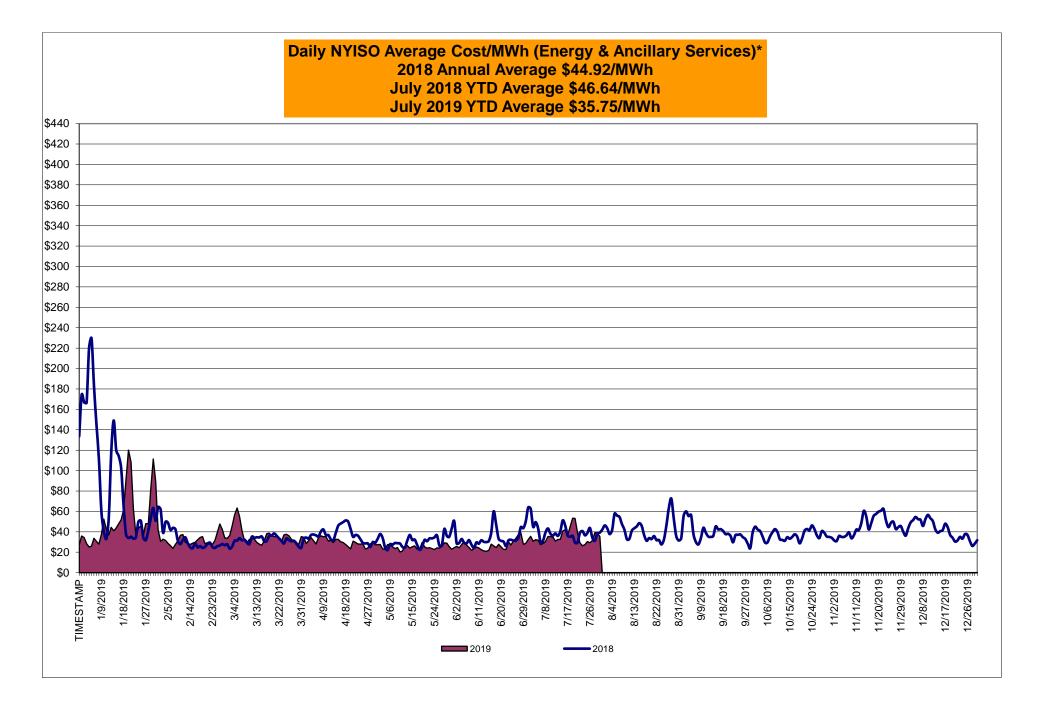






Market Performance Highlights July 2019

- LBMP for July is \$33.18/MWh; higher than \$24.43/MWh in June 2019 and lower than \$39.58/MWh in July 2018.
 - Day Ahead and Real Time Load Weighted LBMPs are higher compared to June.
- July 2019 average year-to-date monthly cost of \$35.75/MWh is a 23% decrease from \$46.64/MWh in July 2018.
- Average daily sendout is 539 GWh/day in July; higher than 429 GWh/day in June 2019 and 529 GWh/day in July 2018.
- Natural gas prices and distillate prices were higher compared to the previous month.
 - Natural Gas (Transco Z6 NY) was \$2.18/MMBtu, up from \$2.10/MMBtu in June.
 - Natural gas prices are down 24.0% year-over-year.
 - Jet Kerosene Gulf Coast was \$14.18/MMBtu, up from \$13.50/MMBtu in June.
 - Ultra Low Sulfur No.2 Diesel NY Harbor was \$13.71/MMBtu, up from \$13.23/MMBtu in June.
 - Distillate prices are down 6.6% year-over-year.
- Uplift per MWh is lower compared to the previous month.
 - Uplift (not including NYISO cost of operations) is (\$0.06)/MWh; lower than \$0.07/MWh in June.
 - Local Reliability Share is \$0.44/MWh, higher than \$0.19/MWh in June.
 - Statewide Share is (\$0.50)/MWh, lower than (\$0.12)/MWh in June.
 - TSA \$ per NYC MWh is \$1.00/MWh.
 - Total uplift costs (Schedule 1 components including NYISO Cost of Operations) are higher than June.

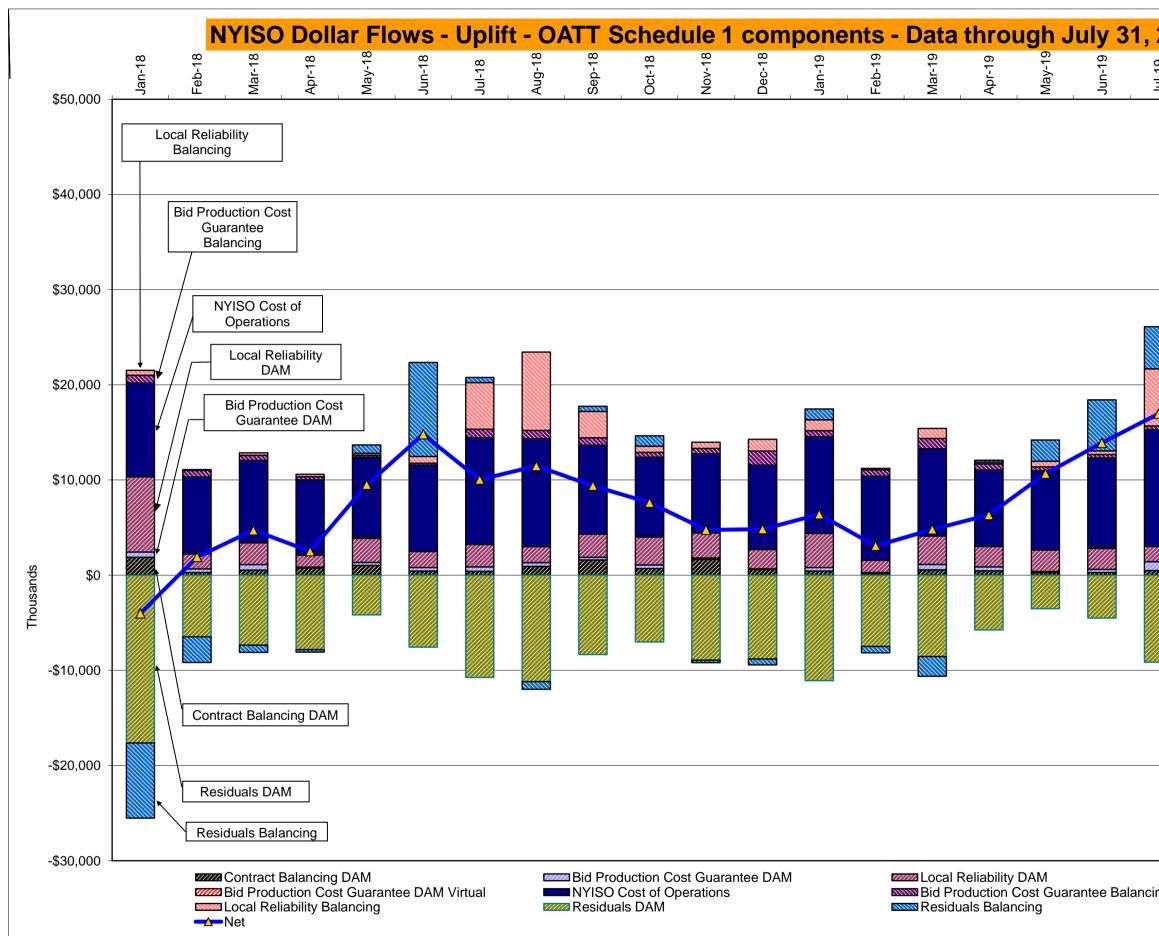


* Excludes ICAP payments.

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2019	January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	October	November	December
LBMP	50.93	33.51	34.91	28.01	23.10	24.43	33.18	<u> </u>				
NTAC	0.51	0.69	0.98	1.16	0.72	1.08	1.01					
Reserve	0.54	0.51	0.55	0.63	0.63	0.50	0.44					
Regulation	0.13	0.11	0.10	0.33	0.13	0.09	0.07					
NYISO Cost of Operations	0.68	0.68	0.69	0.69	0.68	0.69	0.70					
FERC Fee Recovery	0.08	0.09	0.09	0.10	0.10	0.08	0.06					
Uplift	(0.25)	(0.44)	(0.33)	(0.15)	0.13	0.07	(0.06)					
Uplift: Local Reliability Share	0.32	0.11	0.31	0.20	0.23	0.19	0.44					
Uplift: Statewide Share	(0.57)	(0.55)	(0.64)	(0.35)	(0.11)	(0.12)	(0.50)					
Voltage Support and Black Start	0.37	0.37	0.38	0.38	0.38	0.38	0.38					
Avg Monthly Cost	52.99	35.51	37.38	31.16	25.88	27.32	35.78					
Avg YTD Cost	52.99	44.93	42.54	40.12	37.57	35.76	35.75					
TSA \$ per NYC MWh	0.00	0.00	0.01	0.01	0.19	0.77	1.00					
2018	<u>January</u>	February	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
LBMP	99.55	33.83	29.91	35.00	28.78	32.53	39.58	42.56	38.70	35.85	43.15	40.31
NTAC	0.71	0.58	0.88	1.09	0.88	1.00	0.93	0.72	0.40	0.36	1.18	0.93
Reserve	0.92	0.65	0.64	0.81	0.68	0.57	0.49	0.51	0.52	0.80	0.66	0.54
Regulation	0.15	0.15	0.16	0.12	0.14	0.16	0.09	0.09	0.09	0.16	0.17	0.17
NYISO Cost of Operations	0.65	0.65	0.66	0.65	0.66	0.67	0.67	0.66	0.66	0.63	0.63	0.63
FERC Fee Recovery	0.08	0.10	0.09	0.10	0.09	0.09	0.06	0.06	0.08	0.09	0.09	0.08
Uplift	(0.92)	(0.50)	(0.31)	(0.45)	0.05	0.30	(0.13)	(0.02)	(0.11)	(0.30)	(0.27)	(0.29)
Uplift: Local Reliability Share	0.59	0.14	0.19	0.12	0.22	0.18	0.44	0.59	0.37	0.27	0.25	0.23
Uplift: Statewide Share	(1.52)	(0.64)	(0.51)	(0.57)	(0.17)	0.12	(0.57)	(0.61)	(0.48)	(0.56)	(0.52)	(0.52)
Voltage Support and Black Start	0.40	0.41	0.42	0.41	0.42	0.42	0.42	0.42	0.42	0.40	0.40	0.40
Avg Monthly Cost	101.54	35.87	32.45	37.74	31.70	35.73	42.12	45.01	40.76	38.00	46.01	42.78
Avg YTD Cost	101.54	72.85	60.06	54.82	50.20	47.70	46.64	46.37	45.75	45.03	45.11	44.92
TSA \$ per NYC MWh	0.00	0.00	0.04	0.00	0.08	0.39	0.21	0.14	0.33	0.75	0.00	0.00

NYISO Average Cost/MWh (Energy and Ancillary Services) *

from the LBMP Customer point of view



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.

201 61-Inc	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	
ing						

NYISO Markets Transactions

2019	January	February	March	<u>April</u>	May	<u>June</u>	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
Day Ahead Market MWh	15,299,458	13,391,383	13,527,834	11,811,029	12,521,583	13,723,372		<u>rugust</u>	<u>Ocptember</u>			Determber
	57%	57%	59%	59%	57%	58%	64%					
DAM LSE Internal LBMP Energy Sales	57% 6%	57%	59% 3%	59% 1%	57% 3%	56% 3%	64% 3%					
DAM External TC LBMP Energy Sales DAM Bilateral - Internal Bilaterals	29%	30%	30%	31%	32%	29%	26%					
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	29 <i>%</i> 5%	5%	5%	5%	52 % 6%	29% 5%	20 <i>%</i> 4%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	3 <i>%</i> 1%	3 <i>%</i> 2%	2%	2%	3 <i>%</i> 2%	4 <i>%</i> 1%					
DAM Bilateral - Wheel Through Bilaterals	2%	2%	2%	2%	2 <i>%</i> 1%	2%	2%					
Balancing Energy Market MWh	-322,442	-323,188	-261,217	-218,482	-392,699	-102,044	103,628					
		-323,186	-201,217 -138%	-210,402	-392,099 -150%	-102,044 -264%	-2%					
Balancing Energy LSE Internal LBMP Energy Sales	-120%	67%	-136%	-178%	-150% 68%	-204%	-2% 199%					
Balancing Energy External TC LBMP Energy Sales Balancing Energy Bilateral - Internal Bilaterals	65% -4%	-1%	-3%	2%	1%	233%	5%					
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	-4 % 0%	-1 %	-3 %	2 % 0%	0%	0%	15%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	3%	0 <i>%</i> 7%	6%	0 % 7%	0 % 2%	0 % 8%	8%					
Balancing Energy Bilateral - Wheel Through Bilaterals	-45%	-47%	-47%	-44%	-21%	-77%	-125%					
	-4070	-47.70	-47 /0	-44 /0	-2170	-1170	-12370					
Transactions Summary	C00/	C00/	C10/	C00/	500/	C00/	C00/					
LBMP	63%	62%	61%	60%	59%	62%	68%					
Internal Bilaterals	29%	30%	30%	31%	33%	30%	25%					
Import Bilaterals	5% 1%	5%	6% 2%	6% 2%	6% 2%	5% 2%	4%					
Export Bilaterals	1%	2%	2%	2%	2%	2%	1%					
Wheels Through	1%	1%	1%	1%	0%	1%	1%					
Market Share of Total Load							•• •• •					
Day Ahead Market	102.2%	102.5%	102.0%	101.9%	103.2%	100.7%	99.4%					
Balancing Energy +	-2.2%	-2.5%	-2.0%	-1.9%	-3.2%	-0.7%	0.6%					
Total MWH	14,977,016		13,266,617	11,592,547	12,128,884	13,621,328						
Average Daily Energy Sendout/Month GWh	449	436	411	371	373	429	539					
2018	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	July	<u>August</u>	<u>September</u>	<u>October</u>	November	<u>December</u>
2018 Dav Ahead Market MWh							<u>July</u> 16.839.994					
Day Ahead Market MWh	15,153,751	12,643,854	13,521,386	12,158,686	12,721,073	13,983,384	16,839,994	17,195,447	14,432,632	13,548,828	13,506,134	14,450,460
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales	15,153,751 59%	12,643,854 57%	13,521,386 58%	12,158,686 60%	12,721,073 61%	13,983,384 61%	16,839,994 65%	17,195,447 65%	14,432,632 61%	13,548,828 57%	13,506,134 58%	14,450,460 56%
Day Ahead Market MWh DAM LSE Internal LBMP Energy Sales DAM External TC LBMP Energy Sales	15,153,751 59% 4%	12,643,854 57% 3%	13,521,386 58% 2%	12,158,686 60% 2%	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% 6%	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% 31% 5%	13,521,386 58% 2% 32% 5%	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% 25% 4%	14,432,632 61% 3% 28% 5%	13,548,828 57% 6% 29% 5%	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 DAM Bilateral - Importl/Non-LBMP Market Bilaterals DAM Bilateral - Export/Non-LBMP Market Bilaterals	15,153,751 59% 4% 29% 5% 2%	12,643,854 57% 3% 31% 5% 2%	13,521,386 58% 2% 32% 5% 2%	12,158,686 60% 2% 30% 5% 2%	12,721,073 61% 2% 29% 5% 2%	13,983,384 61% 1% 30% 5% 1%	16,839,994 65% 1% 26% 4% 1%	17,195,447 65% 2% 25% 4% 1%	14,432,632 61% 3% 28% 5% 1%	13,548,828 57% 6% 29% 5% 2%	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% 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 MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWh	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% 2% -386,811	12,158,686 60% 2% 30% 5% 2% 2% 2% -72,862	12,721,073 61% 2% 29% 5% 2% 2% 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% 2% 1% -304,277	14,450,460 56% 6% 30% 5% 2% 2% 2% -428,748
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy 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% 2% 1% -304,277 -100%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy 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% 2% -386,811 -128% 37%	12,158,686 60% 2% 30% 5% 2% 2% 2% -72,862 -208% 189%	12,721,073 61% 2% 29% 5% 2% 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% 2% 1% -304,277 -100% 18%	14,450,460 56% 6% 30% 5% 2% 2% -428,748 -94% 27%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy External TC LBMP Energy SalesBalancing 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% 2% -428,748 -94% 27% 3%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	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% 2% -386,811 -128% 37% 0% 0%	12,158,686 60% 2% 30% 5% 2% 2% 2% -72,862 -208% 189% -11% 0%	12,721,073 61% 2% 29% 5% 2% 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% 2% -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% 2% 1% -304,277 -100% 18% 3% 10%	14,450,460 56% 6% 30% 5% 2% 2% 2% -428,748 -94% 27% 3% 0%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 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% 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 MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	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% 2% -386,811 -128% 37% 0% 0%	12,158,686 60% 2% 30% 5% 2% 2% 2% -72,862 -208% 189% -11% 0%	12,721,073 61% 2% 29% 5% 2% 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% 2% -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% 2% 1% -304,277 -100% 18% 3% 10%	14,450,460 56% 6% 30% 5% 2% 2% 2% -428,748 -94% 27% 3% 0%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through 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% -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% 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% 0% -36%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through 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%	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% 63%	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% 0% 0% -27%	13,506,134 58% 6% 30% 2% 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% 0% -36%
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Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBuport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1% 101.0% -1.0%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 5% 32% 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% 102.9% -2.9%	12,158,686 60% 2% 30% 5% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1% 100.6% -0.6%	12,721,073 61% 2% 29% 5% 2% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 29% 5% 2% 1% 100.2% -0.2%	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%	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% 101.5% -1.5%	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% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1% 1%	14,450,460 56% 6% 30% 5% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 5% 2% 1% 103.1% -3.1%
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBuport BilateralsImport BilateralsImport BilateralsSynt BilateralsBalancing Energy +Total MWH	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1% 101.0% -1.0% 15,004,132	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% -36% 32% 59% 32% 59% 32% 5% 2% 1% 102.4% -2.4% 12,344,477	13,521,386 58% 2% 32% 5% 2% 2% -386,811 -128% 37% 0% 6% -15% 59% 33% 6% 2% 1% 102.9% 102.9% 13,134,575	12,158,686 60% 2% 30% 5% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1% 100.6% 12,085,824	12,721,073 61% 2% 29% 5% 2% 2% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 2% 1% 100.2% 12,691,534	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% 13,629,272	16,839,994 65% 1% 26% 4% 1% 2% -80,438 -123% 129% 18% 0% 14% -138% 66% 27% 4% 1% 1% 1% 1% 1%	17,195,447 65% 2% 25% 4% 1% 2% -44,732 -75% 209% 23% 0% 23% 0% 25% -281% 68% 25% 4% 1% 1% 1% 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% 101.5% -1.5% 14,222,196	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% 13,233,943	13,506,134 58% 6% 30% 2% 2% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1% 102.3% -2.3% 13,201,857	14,450,460 56% 6% 30% 5% 2% -428,748 -94% 27% 3% 0% 0% 0% -36% 61% 31% 5% 2% 1% 103.1% -3.1% 14,021,712
Day Ahead Market MWhDAM LSE Internal LBMP Energy SalesDAM External TC LBMP Energy SalesDAM Bilateral - Internal BilateralsDAM Bilateral - Importl/Non-LBMP Market BilateralsDAM Bilateral - Export/Non-LBMP Market BilateralsDAM Bilateral - Wheel Through BilateralsDAM Bilateral - Wheel Through BilateralsBalancing Energy Market MWhBalancing Energy Market MWhBalancing Energy LSE Internal LBMP Energy SalesBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Internal BilateralsBalancing Energy Bilateral - Importl/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Export/Non-LBMP Market BilateralsBalancing Energy Bilateral - Wheel Through BilateralsBuport BilateralsImport BilateralsImport BilateralsWheels ThroughMarket Share of Total LoadDay Ahead MarketBalancing Energy +	15,153,751 59% 4% 29% 5% 2% 1% -149,619 -147% 74% 9% 0% 22% -58% 63% 30% 5% 2% 1% 101.0% -1.0%	12,643,854 57% 3% 31% 5% 2% 2% -299,377 -101% 24% 5% 0% 9% -36% 5% 32% 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% 102.9% -2.9%	12,158,686 60% 2% 30% 5% 2% -72,862 -208% 189% -11% 0% 34% -103% 62% 30% 5% 2% 1% 100.6% -0.6%	12,721,073 61% 2% 29% 5% 2% -29,539 -458% 564% 29% 0% 51% -287% 63% 29% 5% 29% 5% 2% 1% 100.2% -0.2%	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%	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% 101.5% -1.5%	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% 2% 1% -304,277 -100% 18% 3% 10% 0% -31% 64% 31% 3% 2% 1% 1%	14,450,460 56% 6% 30% 5% 2% -428,748 -94% 27% 3% 0% 0% -36% 61% 31% 5% 2% 1% 103.1% -3.1%

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

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

Market Mitigation and Analysis Prepared: 8/8/2019 4:20 PM Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

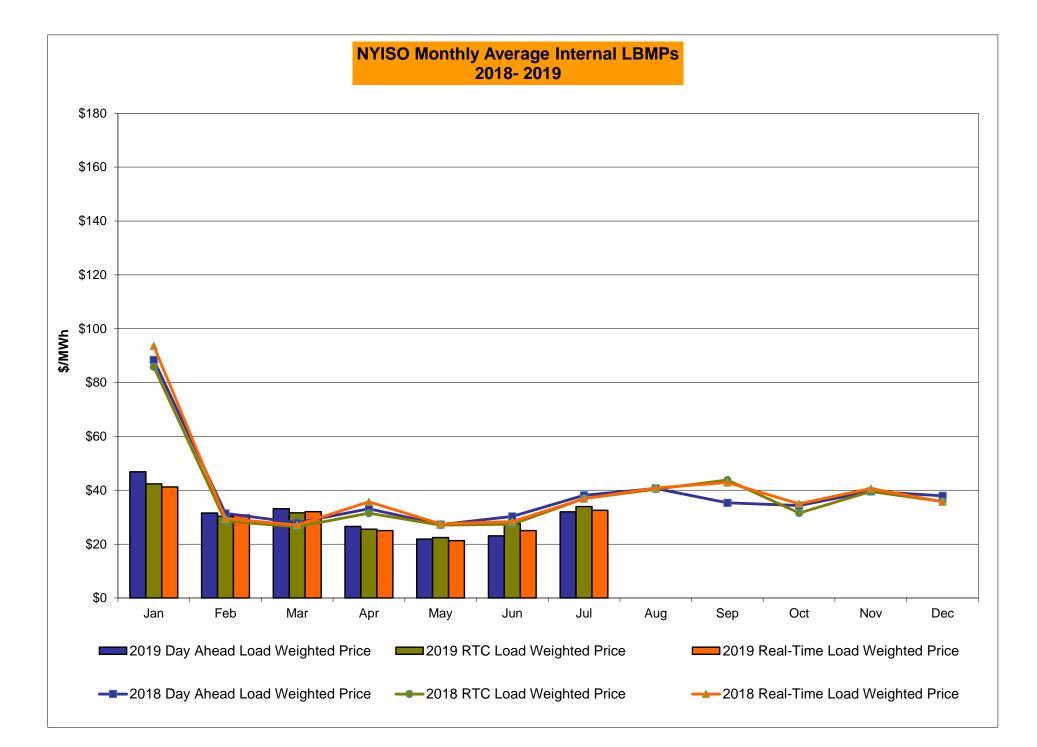
NYISO Markets 2019 Energy Statistics

	<u>January</u>	February	March	April	May	<u>June</u>	July	August September	October November December
DAY AHEAD LBMP								-	
Price *	\$45.01	\$30.66	\$32.34	\$25.97	\$21.16	\$21.79	\$30.16		
Standard Deviation	\$25.67	\$12.86	\$9.30	\$6.32	\$5.89	\$7.28	\$12.06		
Load Weighted Price **	\$46.88	\$31.53	\$33.14	\$26.57	\$21.89	\$23.04	\$31.98		
RTC LBMP									
Price *	\$40.86	\$29.74	\$31.04	\$25.07	\$21.88	\$25.67	\$32.23		
Standard Deviation	\$23.02	\$10.79	\$8.48	\$7.53	\$8.01	\$23.45	\$21.96		
Load Weighted Price **	\$42.39	\$30.32	\$31.62	\$25.54	\$22.44	\$27.64	\$33.92		
REAL TIME LBMP									
Price *	\$39.54	\$30.13	\$31.46	\$24.47	\$20.56	\$23.30	\$30.77		
Standard Deviation	\$26.03	\$13.77	\$12.54	\$17.27	\$10.35	\$17.49	\$20.63		
Load Weighted Price **	\$41.24	\$30.80	\$32.06	\$25.06	\$21.28	\$25.05	\$32.53		
Average Daily Energy Sendout/Month GWh	449	436	411	371	373	429	539		

NYISO Markets 2018 Energy Statistics

	January	February	March	<u>April</u>	May	<u>June</u>	July	August S	September	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

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

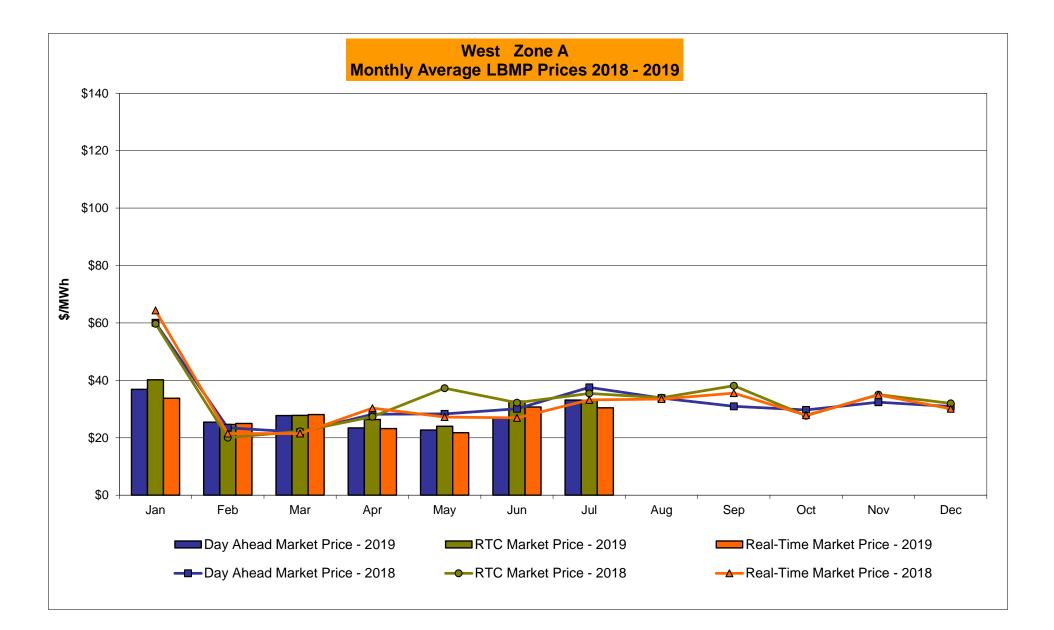


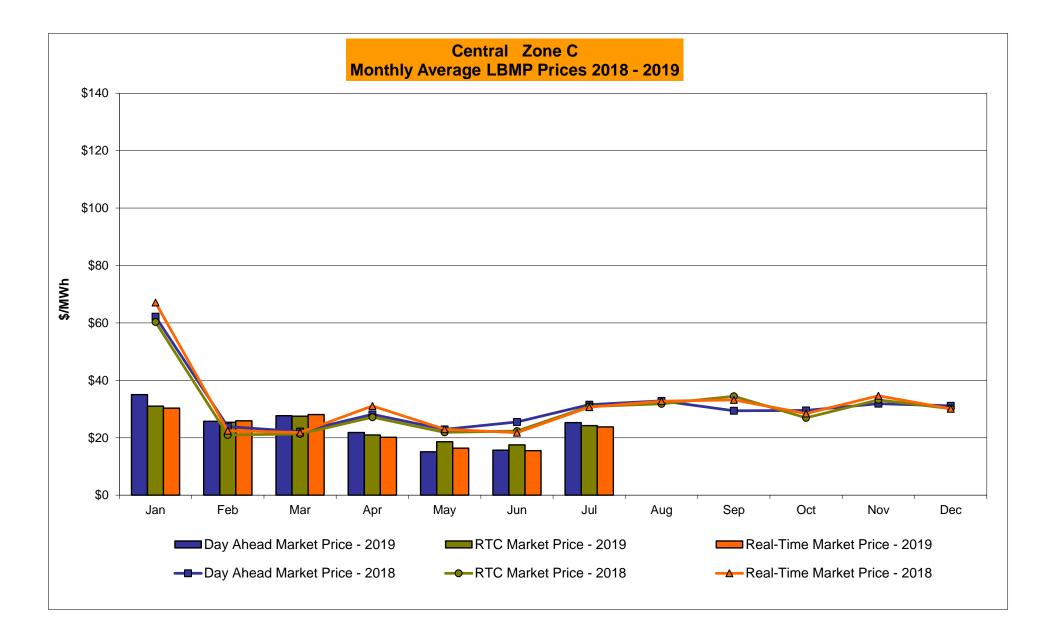
July 2019 Zonal LBMP Statistics for NYISO (\$/MWh)

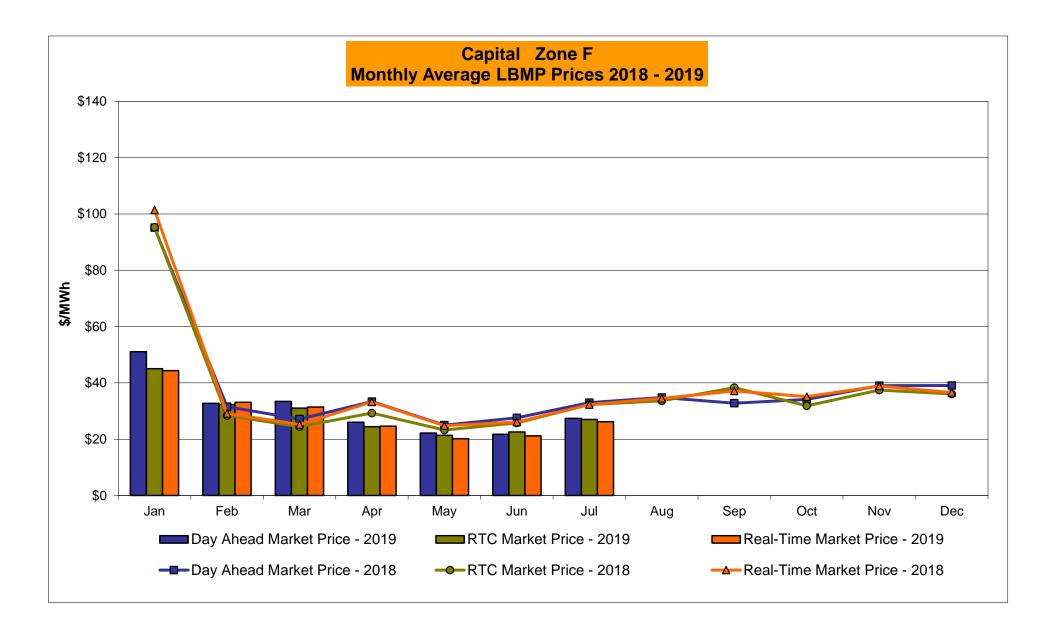
					MOHAWK		HUDSON			NEW YORK	LONG
	WEST	GENESEE	NORTH	CENTRAL	VALLEY	CAPITAL	VALLEY	MILLWOOD	DUNWOODIE	CITY	ISLAND
	Zone A	Zone B	Zone D	Zone C	Zone E	Zone F	Zone G	Zone H	<u>Zone I</u>	Zone J	<u>Zone K</u>
DAY AHEAD LBMP											
Unweighted Price *	33.14	22.70	20.49	25.27	24.89	27.40	27.68	28.39	28.65	31.23	36.88
Standard Deviation	19.49	7.17	7.52	9.13	8.72	8.19	8.65	9.51	9.72	10.90	25.64
RTC LBMP											
Unweighted Price *	33.04	22.41	21.37	24.21	24.30	27.00	27.39	27.95	28.61	31.84	48.95
Standard Deviation	29.60	8.10	14.75	8.57	8.54	8.41	10.30	11.23	13.07	15.51	103.95
REAL TIME LBMP											
Unweighted Price *	30.45	22.30	20.82	23.75	23.94	26.21	26.85	27.61	28.61	31.88	42.37
Standard Deviation	25.82	9.45	21.25	9.83	9.93	9.54	12.26	13.24	19.75	20.77	88.55

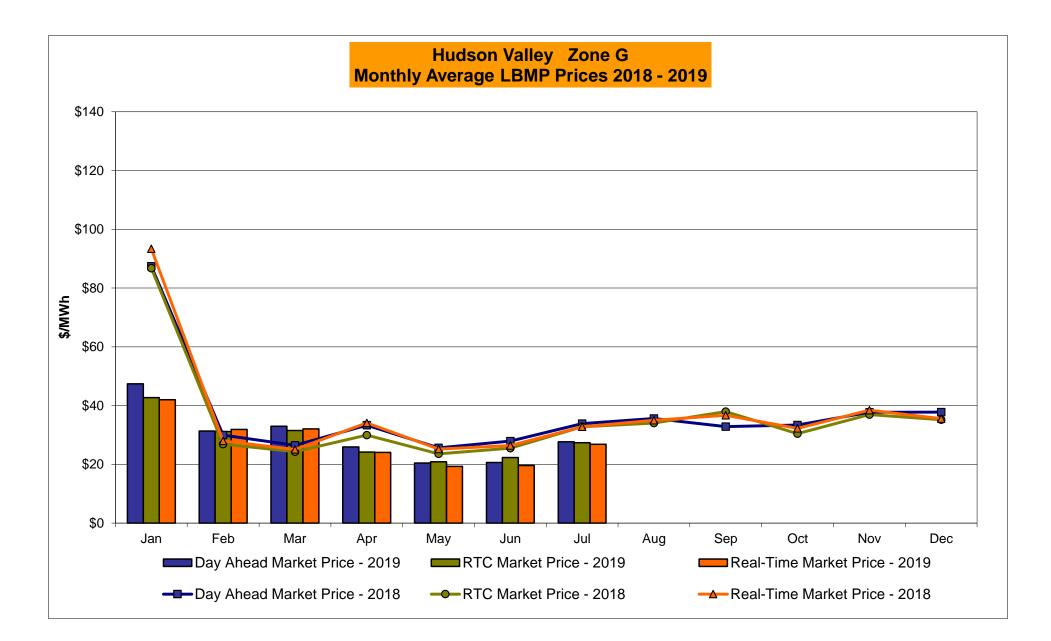
	ONTARIO IESO	HYDRO QUEBEC (Wheel)	HYDRO QUEBEC (Import/Export)	PJM	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE	LINDEN VFT	HUDSON	Dennison
		()	(Controllable	-	Controllable	Controllable	Controllable	Controllable
	Zone O	Zone M	Zone M	Zone P	Zone N	Line	Line	<u>Line</u>	<u>Line</u>	<u>Line</u>	<u>Line</u>
DAY AHEAD LBMP											
Unweighted Price *	21.10	21.51	21.51	27.80	28.45	33.51	30.77	32.97	28.60	29.22	19.92
Standard Deviation	7.14	7.31	7.31	9.75	9.41	21.20	10.95	22.07	8.24	9.60	7.27
RTC LBMP											
Unweighted Price *	21.19	20.62	20.62	27.44	29.29	46.32	38.63	38.83	27.46	29.38	20.98
Standard Deviation	9.29	15.96	15.96	12.25	11.10	98.97	91.85	85.12	19.62	12.94	15.36
REAL TIME LBMP											
Unweighted Price *	21.09	20.60	20.60	26.35	27.66	41.97	32.98	34.26	25.18	29.53	20.35
Standard Deviation	9.68	21.43	21.43	12.87	11.15	87.74	80.88	68.06	32.88	19.20	21.49

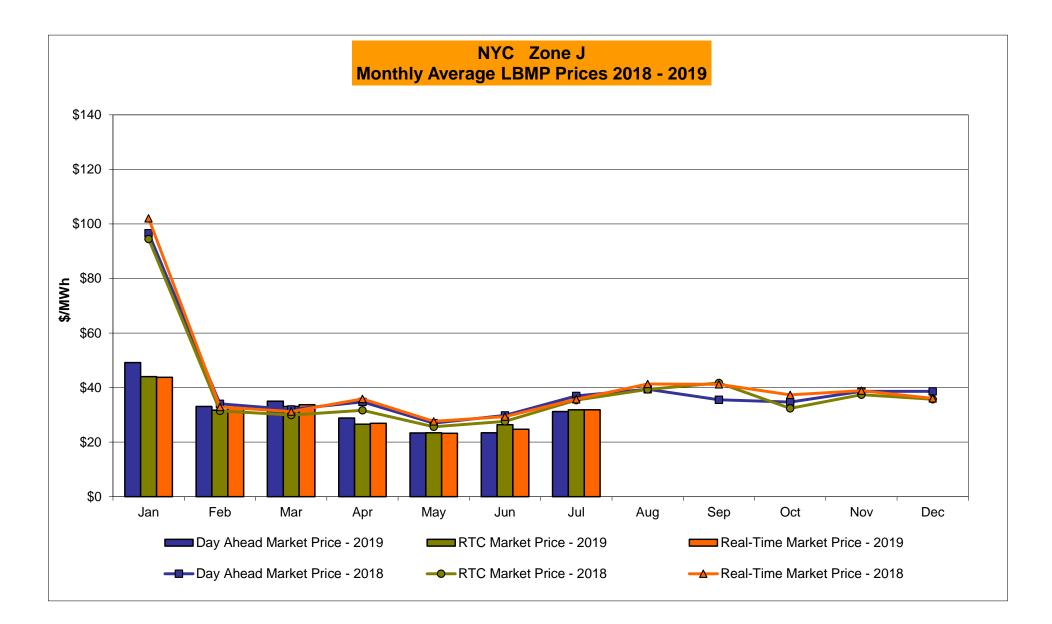
* Straight LBMP averages

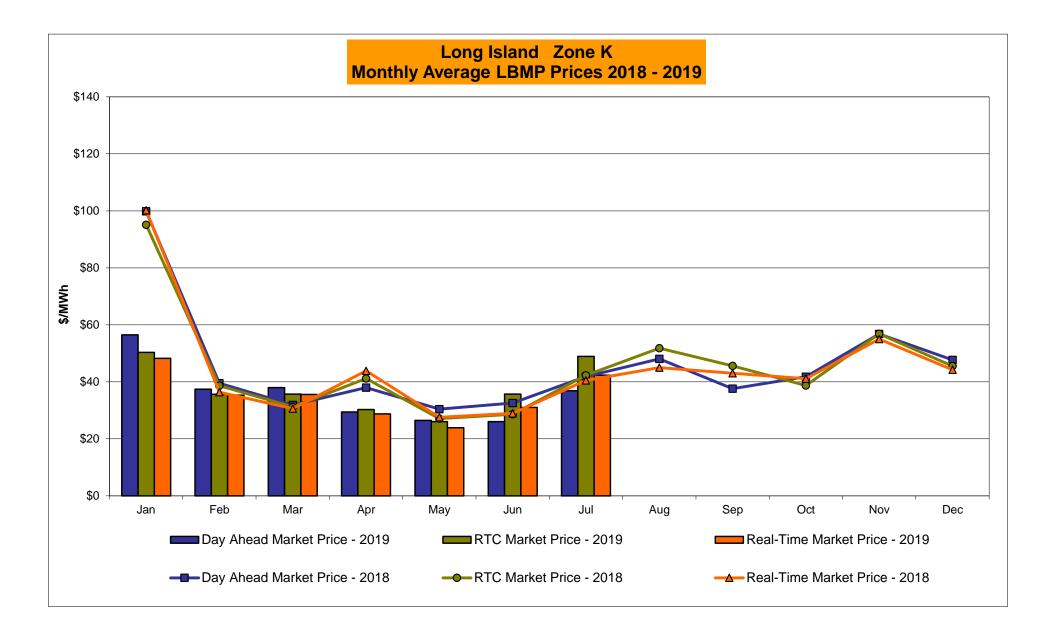


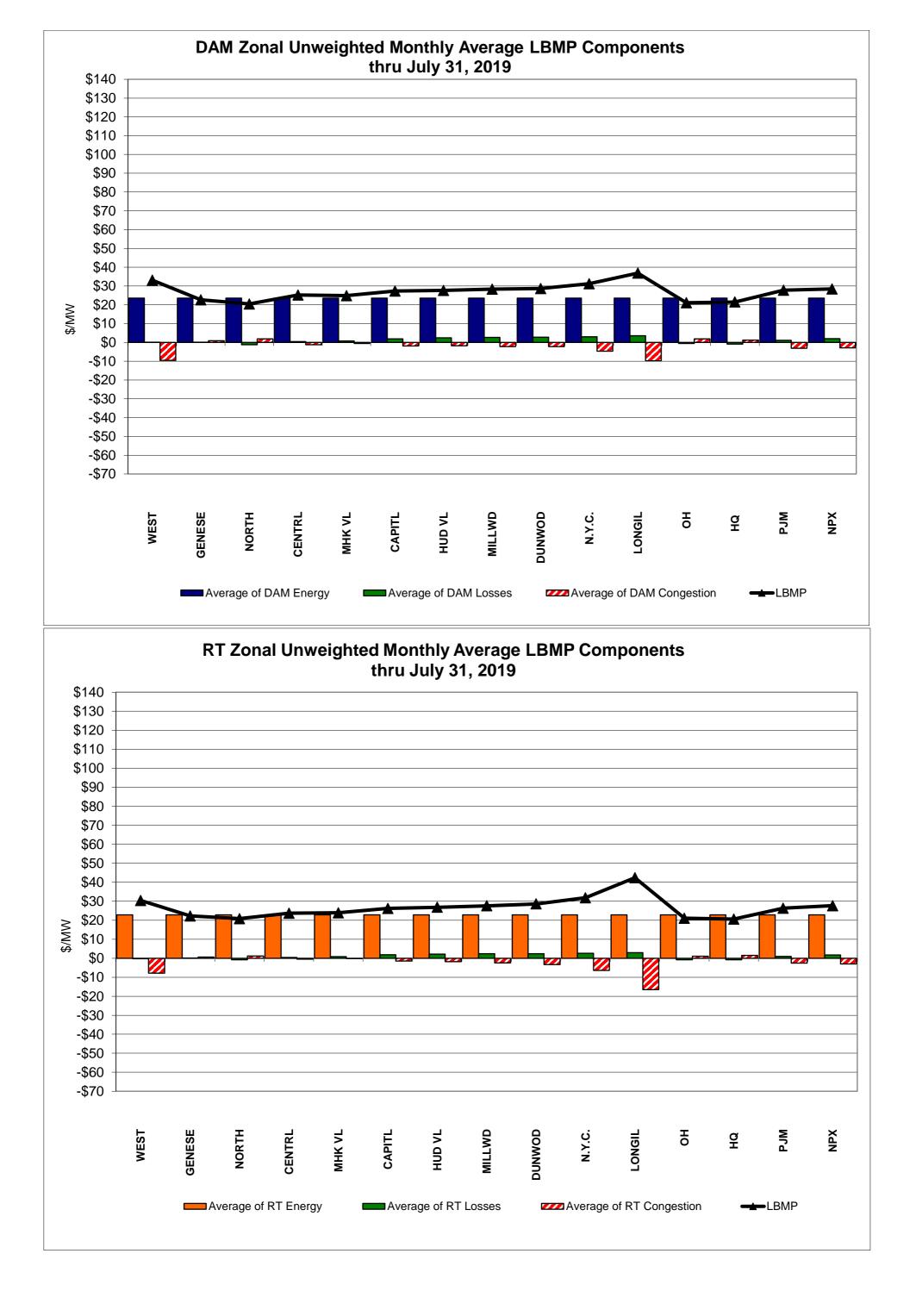




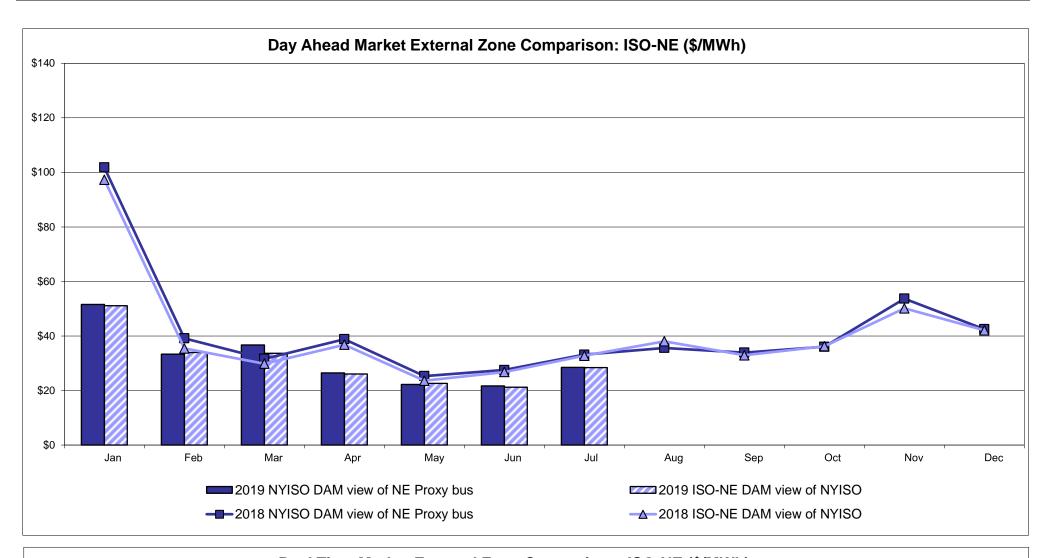


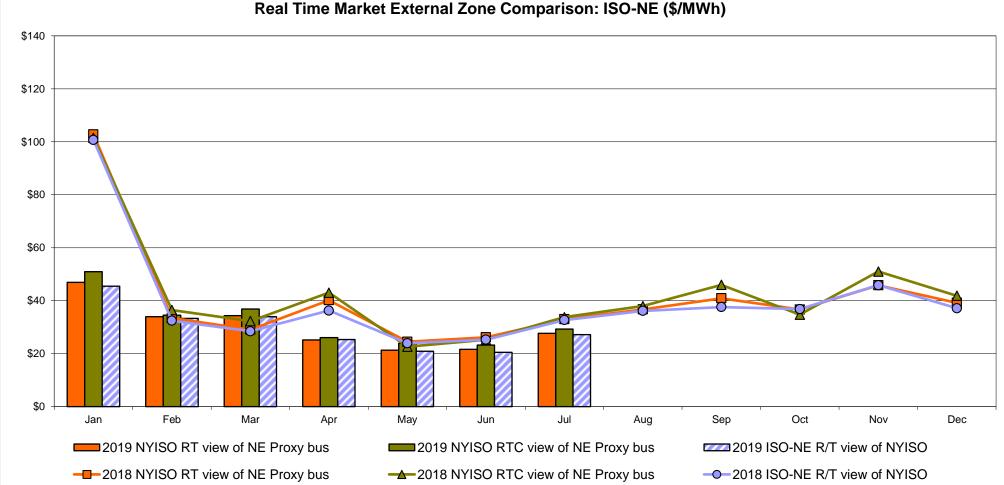


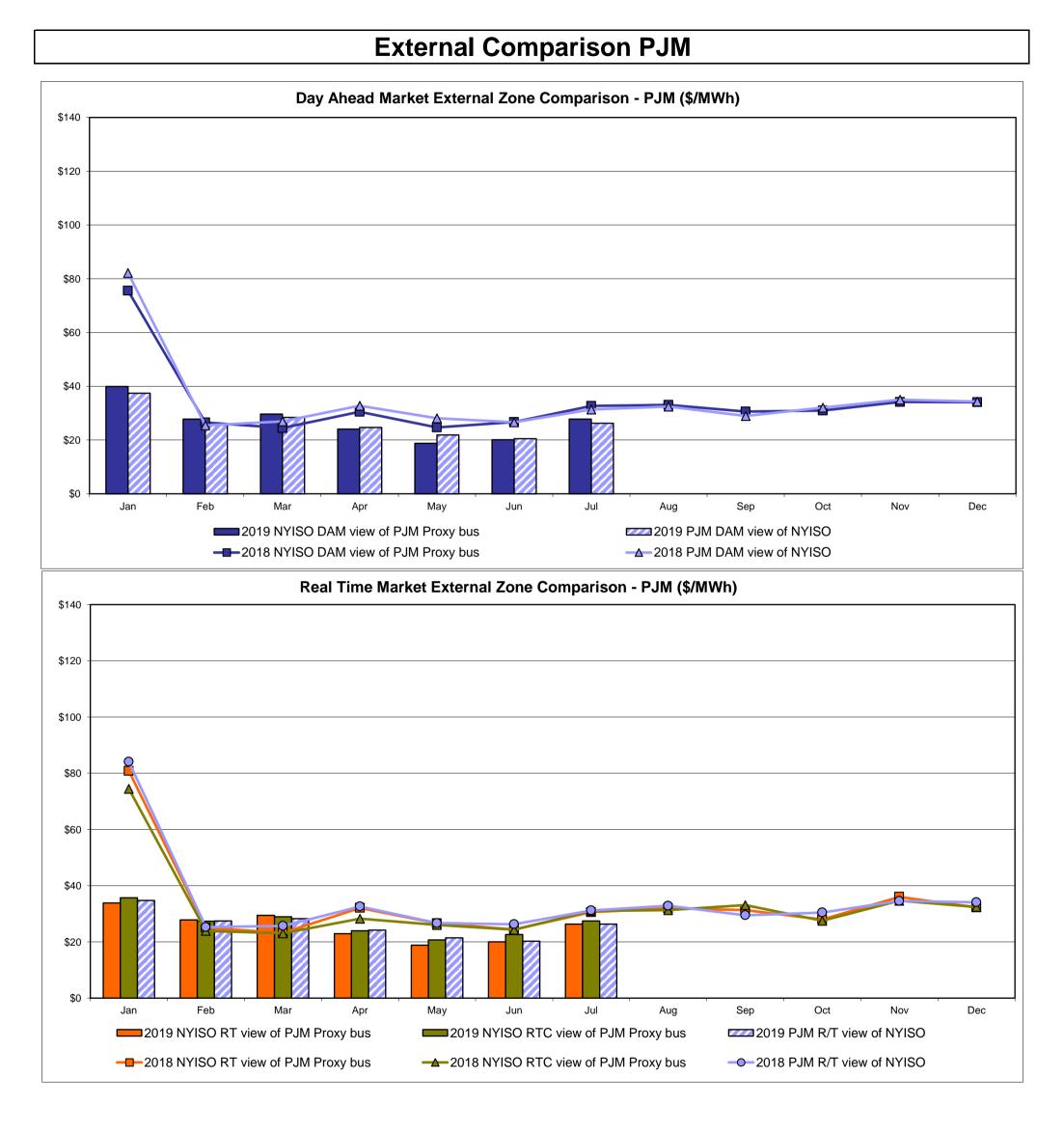




External Comparison ISO-New England



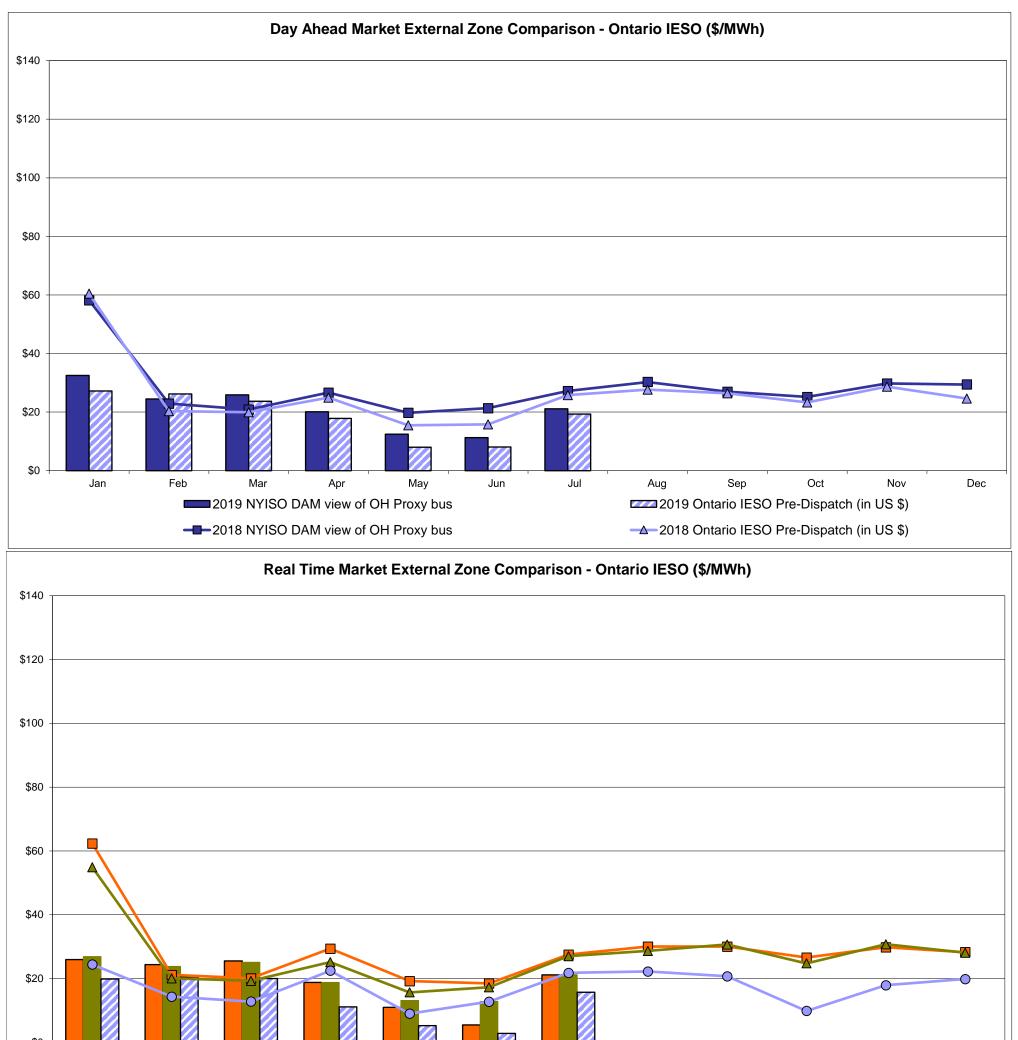




Market Mitigation and Analysis Prepared: 8/8/2019 4:19 PM

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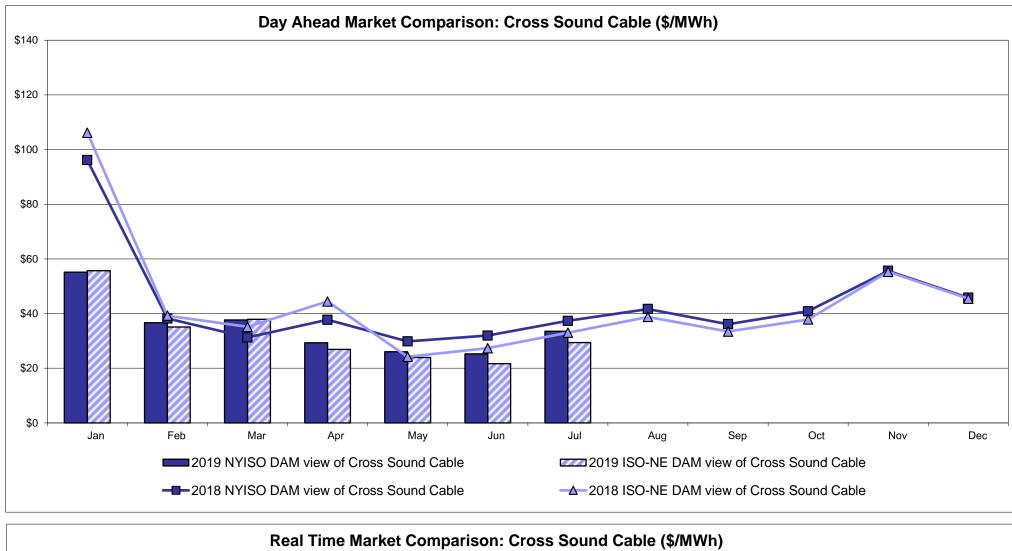
External Comparison Ontario IESO



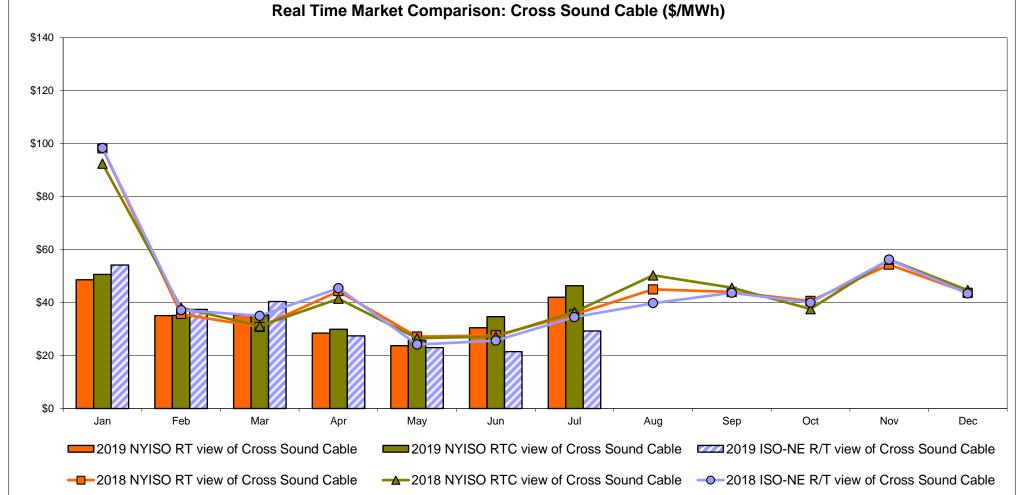


Notes: Exchange factor used for July 2019 was 0.763067531476536 to US HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price

> Market Mitigation and Analysis Prepared: 8/8/2019 4:19 PM



External Controllable Line: Cross Sound Cable (New England)

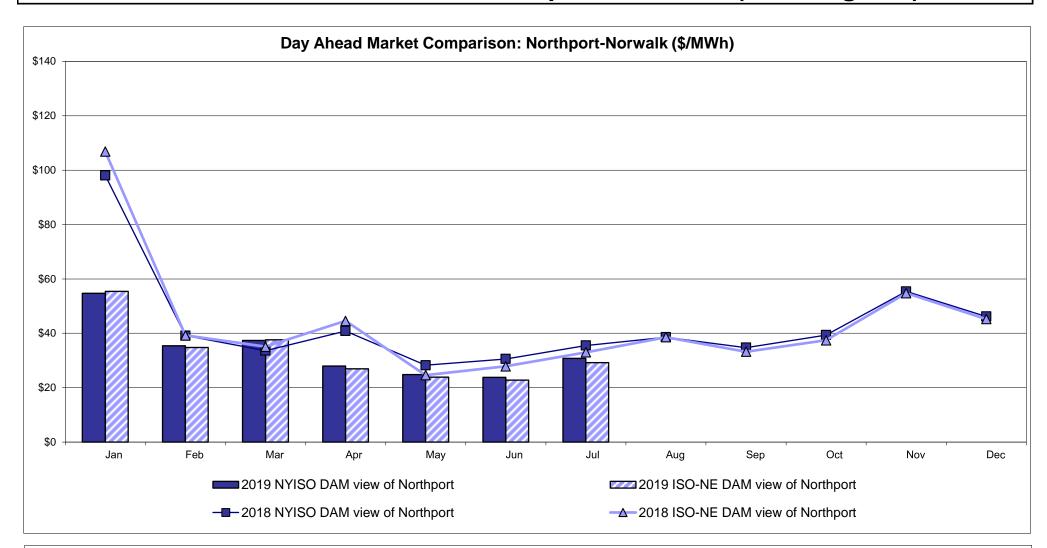


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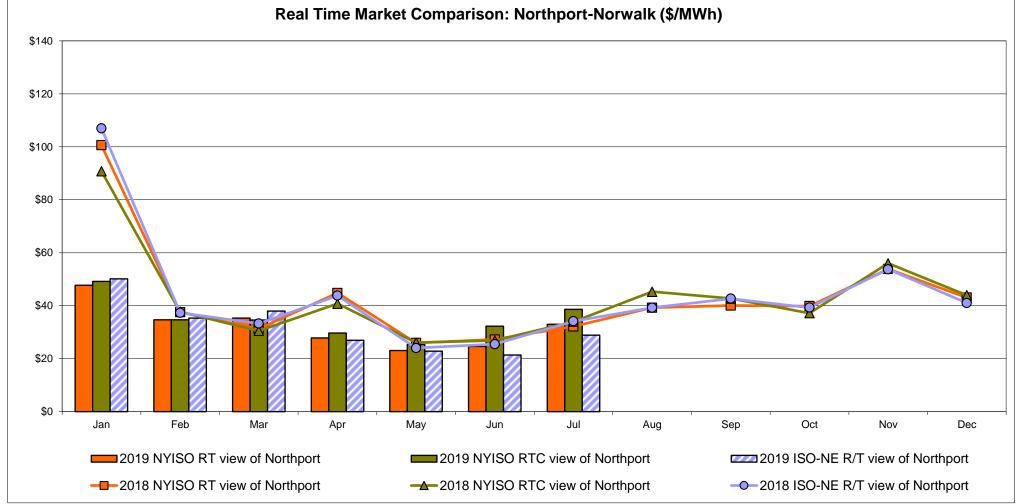
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

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



External Controllable Line: Northport - Norwalk (New England)

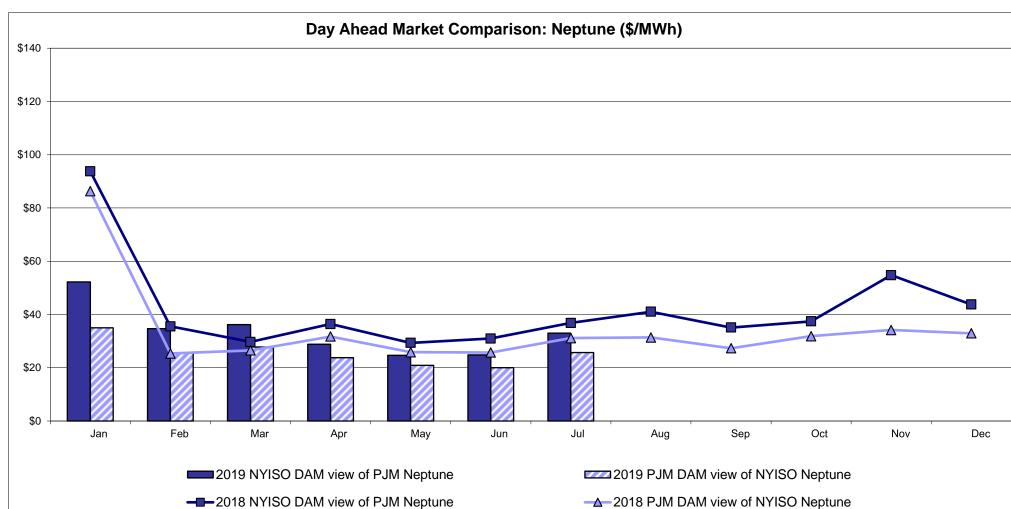


Note:

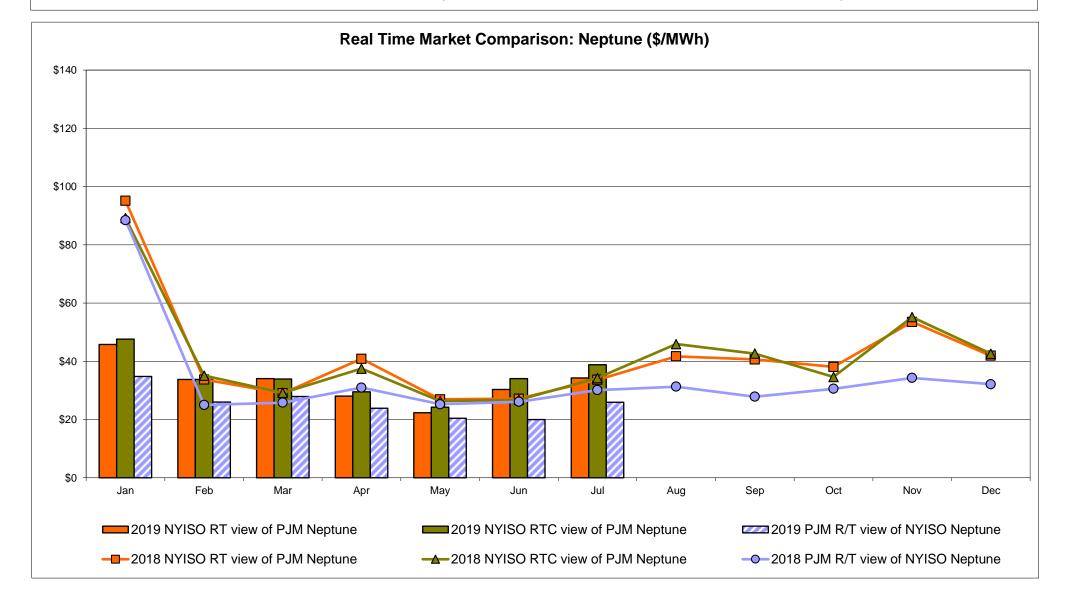
ISO-NE Forecast is an advisory posting @ 18:00 day before.

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

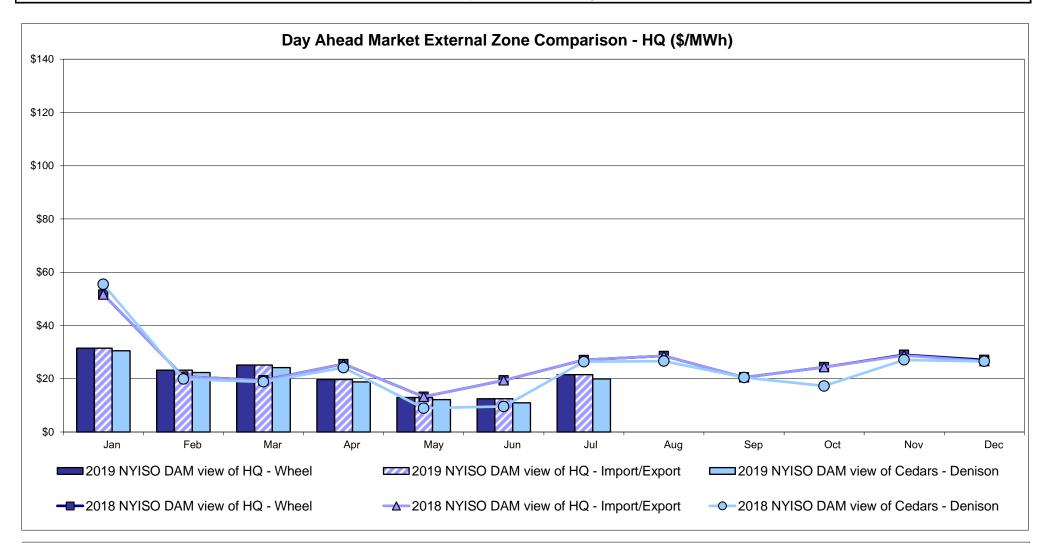
The DAM and R/T prices at the 1385 interface are used for NYISO.

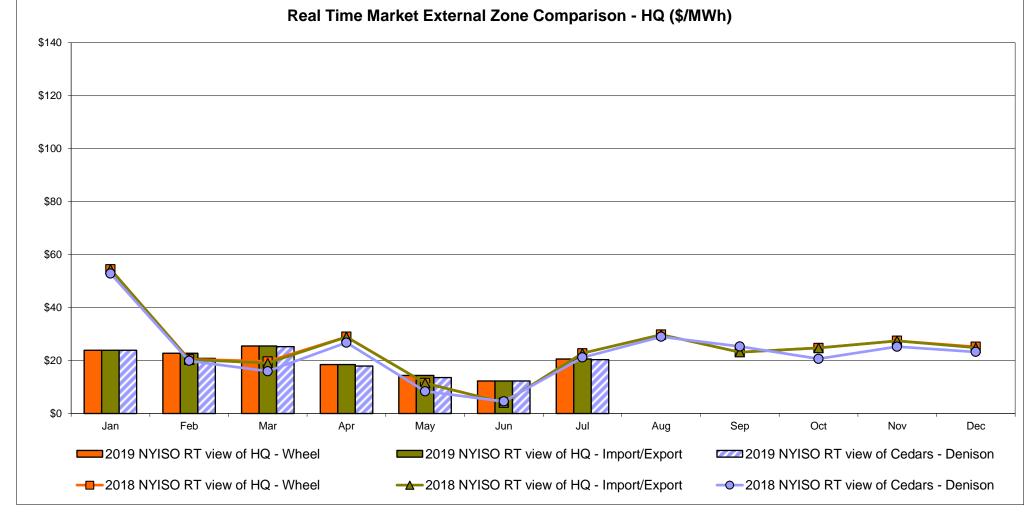


External Controllable Line: Neptune (PJM)



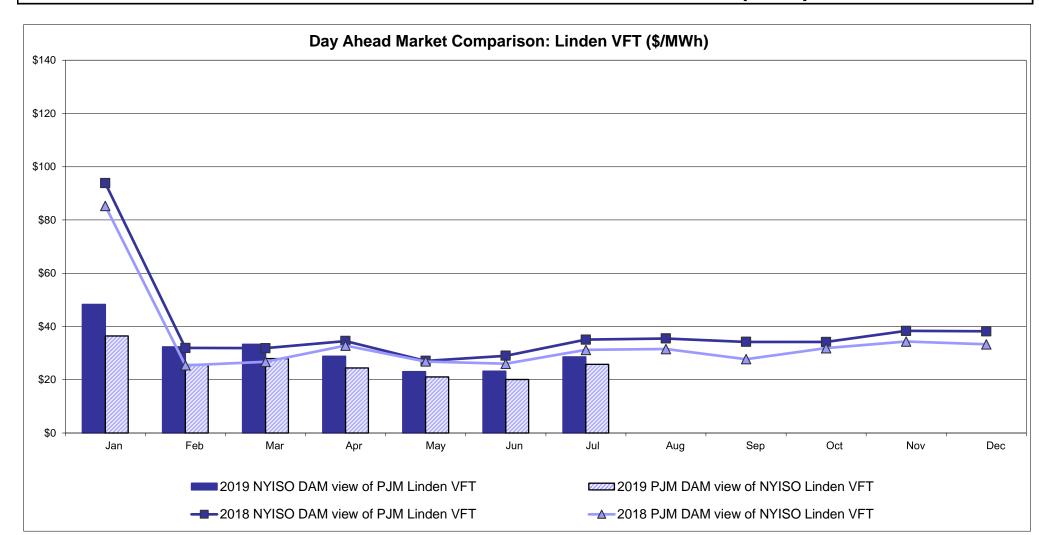
External Comparison Hydro-Quebec



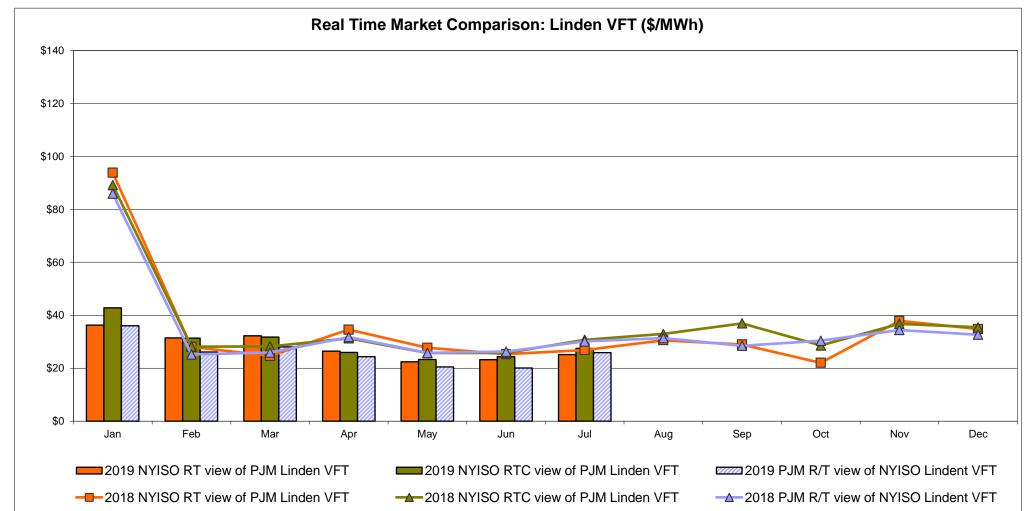


Note:

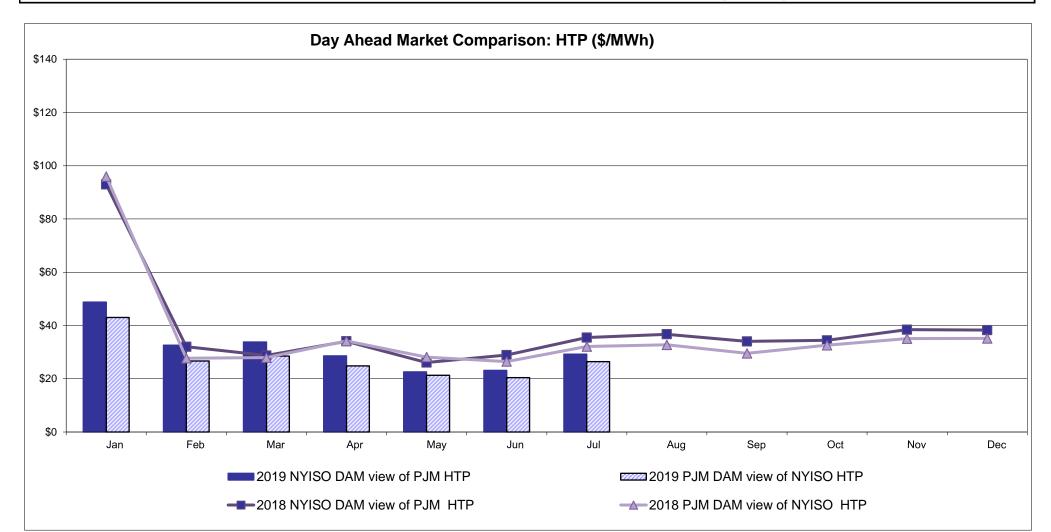
Hydro-Quebec Prices are unavailable.

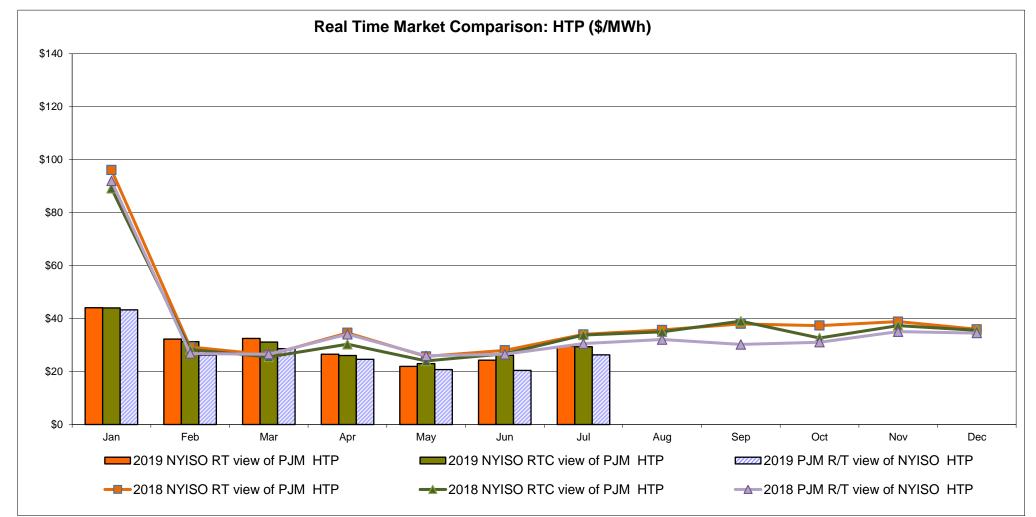


External Controllable Line: Linden VFT (PJM)



External Controllable Line: Hudson (PJM)

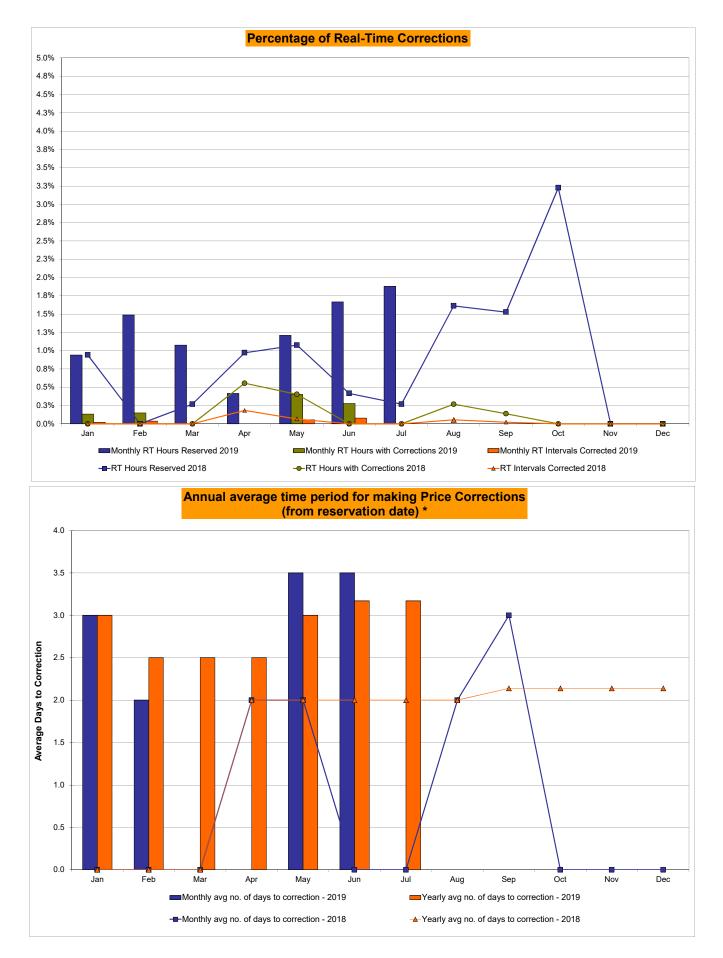




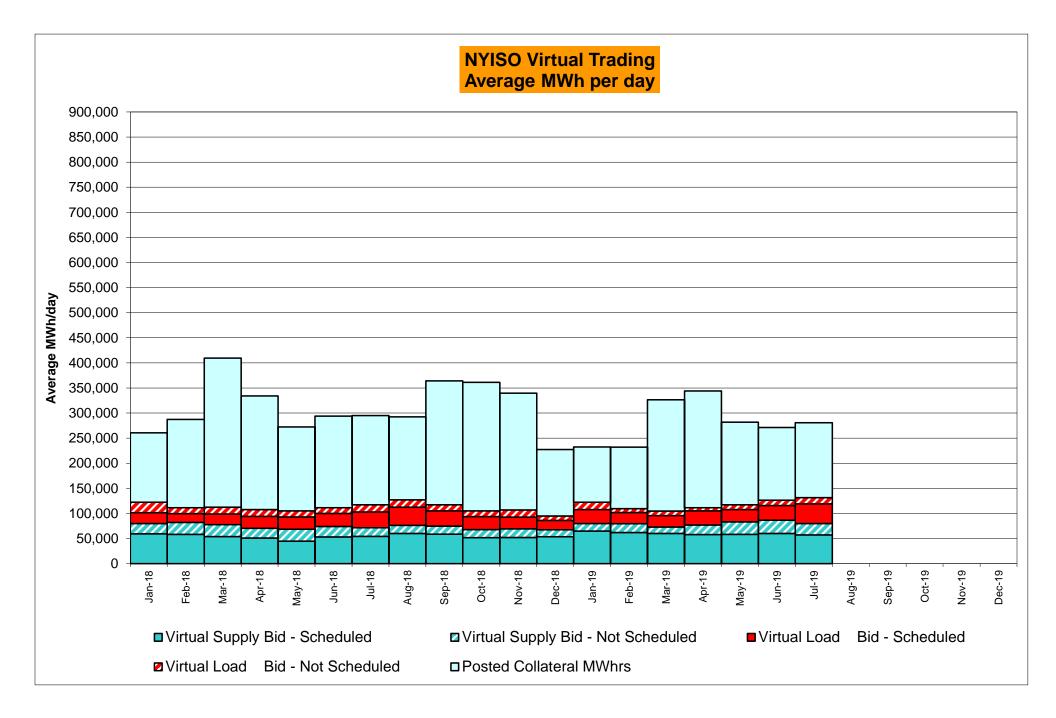
NYISO Real Time Price Correction Statistics

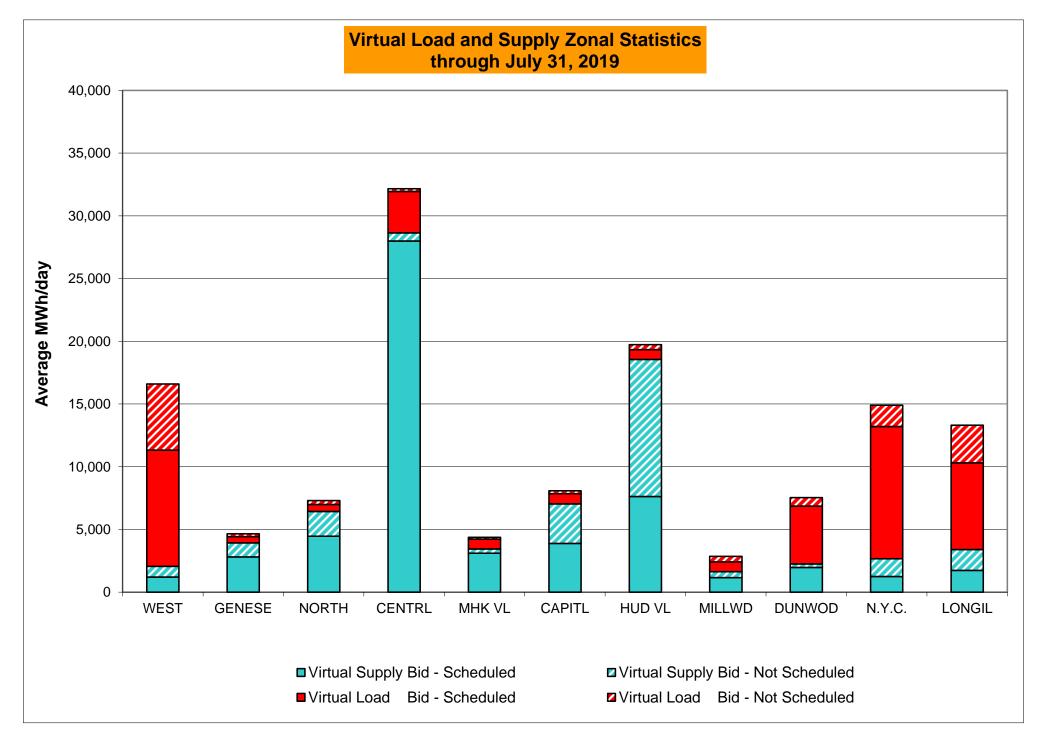
<u>2019</u>		<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	July	August	<u>September</u>	October	November	December
Hour Corrections													
Number of hours with corrections	in the month	1	1	0	0	3	2	0					
Number of hours	in the month	744	672	743	720	744	720	744					
% of hours with corrections	in the month	0.13%	0.15%	0.00%	0.00%	0.40%	0.28%	0.00%					
% of hours with corrections	year-to-date	0.13%	0.14%	0.09%	0.07%	0.14%	0.16%	0.14%					
Interval Corrections	in the meanth	2	2	0	0	F	7	0					
Number of intervals corrected Number of intervals	in the month in the month	2 9.071	3 8.131	0 9,008	0 8,750	5 9,033	7 8,863	0 9,243					
% of intervals corrected	in the month	9,071	0.04%	9,008	0.00%	9,033 0.06%	0,003 0.08%	9,243 0.00%					
% of intervals corrected	year-to-date	0.02%	0.03%	0.02%	0.01%	0.02%	0.03%	0.03%					
Hours Reserved		-	10	0	0	0	10						
Number of hours reserved	in the month	7	10	8	3	9	12	14					
Number of hours	in the month	744	672	743	720	744	720	744					
% of hours reserved	in the month	0.94%	1.49%	1.08%	0.42%	1.21%	1.67%	1.88%					
% of hours reserved	year-to-date	0.94%	1.20%	1.16%	0.97%	1.02%	1.13%	1.24%					
Days to Correction *													
Avg. number of days to correction	in the month	3.00	2.00	0.00	0.00	3.50	3.50	0.00					
Avg. number of days to correction	year-to-date	3.00	2.50	2.50	2.50	3.00	3.17	3.17					
Days Without Corrections													
Days without corrections	in the month	30	27	31	30	29	28	31					
Days without corrections	year-to-date	30	57	88	118	147	175	206					
<u>2018</u>		<u>January</u>	<u>February</u>	March	April	May	June	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
2018 Hour Corrections		<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
	in the month	<u>January</u> 0	<u>February</u> 0	<u>March</u> 0	<u>April</u> 4	<u>May</u> 3	<u>June</u> 0	<u>July</u> 0	<u>August</u> 2	<u>September</u> 1	<u>October</u> 0	<u>November</u> 0	<u>December</u> 0
Hour Corrections	in the month in the month		<u>_</u>										
Hour Corrections Number of hours with corrections		0	0	0	4	3	0	0	2	1	0	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 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 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% <u>0.15%</u>	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% <u>0.19%</u> 6	0 720 0.00% 0.16% 0	0 744 0.00% 0.14% 0	2 744 0.27% <u>0.15%</u> 5	1 720 0.14% 0.15% 2	0 744 0.00% 0.14% 0	0 721 0.00% 0.12% 0	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 8,112	0 743 0.00% 0.00% 0 9,002	4 720 0.56% <u>0.14%</u> 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% <u>0.15%</u> 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% 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 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% <u>0.11%</u> 0 8,993 0.00%
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,021 0.00%	0 672 0.00% 0.00% 0 8,112 0.00%	0 743 0.00% 0.00% 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% <u>0.11%</u> 0 8,993 0.00%
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month year-to-date	0 744 0.00% 0.00% 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% 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% 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% <u>0.11%</u> 0 8,993 0.00% 0.03%
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected Mumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	0 744 0.00% 0.00% 9,021 0.00% 0.00% 7	0 672 0.00% 0.00% 0 8,112 0.00% 0.00%	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3	0 744 0.00% 0.14% 9,021 0.00% 0.04% 2	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected Mumber of hours reserved Number of hours reserved Number of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month	0 744 0.00% 0.00% 9,021 0.00% 0.00% 7 744	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743	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	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720	0 744 0.00% 0.14% 9,021 0.00% 0.04% 2 744	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720	0 744 0.00% 0.14% 8,990 0.00% 0.03% 24 744	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744
Hour Corrections Number of hours with corrections Number of hours with corrections % of hours with corrections Mumber of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	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% 0 672 0.00%	0 743 0.00% 0.00% 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	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% 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 with corrections % of hours with corrections Mumber of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved % of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month 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% 0 672 0.00%	0 743 0.00% 0.00% 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% 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 % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month 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% 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% 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 % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month 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% 0.00	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49% 0.00	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27% 0.42% 0.00	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% 2.00	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62% 0.00	0 744 0.00% 0.14% 9,021 0.00% 0.04% 2 744 0.27% 0.57% 0.00	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70% 2.00	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79% 3.00	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04% 0.00	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95% 0.00	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87% 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 corrected % of intervals corrected % of intervals corrected % of intervals corrected Mumber of hours reserved Number of hours reserved % of hours reserved Days to Correction * Avg. number of days to correction Avg. number of days to correction Days Without Corrections Days without corrections	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month 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% 0.94% 0.00 0.00 31	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0.00% 0.49% 0.00 0.00 28	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27% 0.42% 0.00 0.00 31	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00 2.00 2.00 28	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66% 2.00 2.00 2.00	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62% 0.62% 0.00 2.00 30	0 744 0.00% 0.14% 0 9,021 0.00% 0.04% 2 744 0.27% 0.57% 0.00 2.00 31	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70% 2.00 2.00 2.00 30	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79% 3.00 2.14 29	0 744 0.00% 0.14% 0 8,990 0.00% 0.03% 24 744 3.23% 1.04% 0.00 2.14 31	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95% 0.00 2.14 30	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0.03% 0 744 0.00% 0.87% 0.00 2.14 31
Hour Corrections Number of hours with corrections % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals corrected % of intervals corrected Number of hours reserved Number of hours % of hours reserved Days to Correction * Avg. number of 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 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% 9,021 0.00% 0.00% 7 744 0.94% 0.94% 0.94% 0.00 0.00	0 672 0.00% 0.00% 0 8,112 0.00% 0.00% 0 672 0.00% 0.49% 0.00 0.00	0 743 0.00% 0.00% 9,002 0.00% 0.00% 2 743 0.27% 0.42% 0.00 0.00	4 720 0.56% 0.14% 16 8,717 0.18% 0.05% 7 720 0.97% 0.56% 2.00 2.00	3 744 0.40% 0.19% 6 9,033 0.07% 0.05% 8 744 1.08% 0.66% 2.00 2.00	0 720 0.00% 0.16% 0 8,723 0.00% 0.04% 3 720 0.42% 0.62% 0.00 2.00	0 744 0.00% 0.14% 9,021 0.00% 0.04% 2 744 0.27% 0.57% 0.00 2.00	2 744 0.27% 0.15% 5 9,071 0.06% 0.04% 12 744 1.61% 0.70% 2.00 2.00	1 720 0.14% 0.15% 2 8,723 0.02% 0.04% 11 720 1.53% 0.79% 3.00 2.14	0 744 0.00% 0.14% 8,990 0.00% 0.03% 24 744 3.23% 1.04% 0.00 2.14	0 721 0.00% 0.12% 0 8,763 0.00% 0.03% 0 721 0.00% 0.95% 0.00 2.14	0 744 0.00% 0.11% 0 8,993 0.00% 0.03% 0 744 0.00% 0.87% 0.00 2.14

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



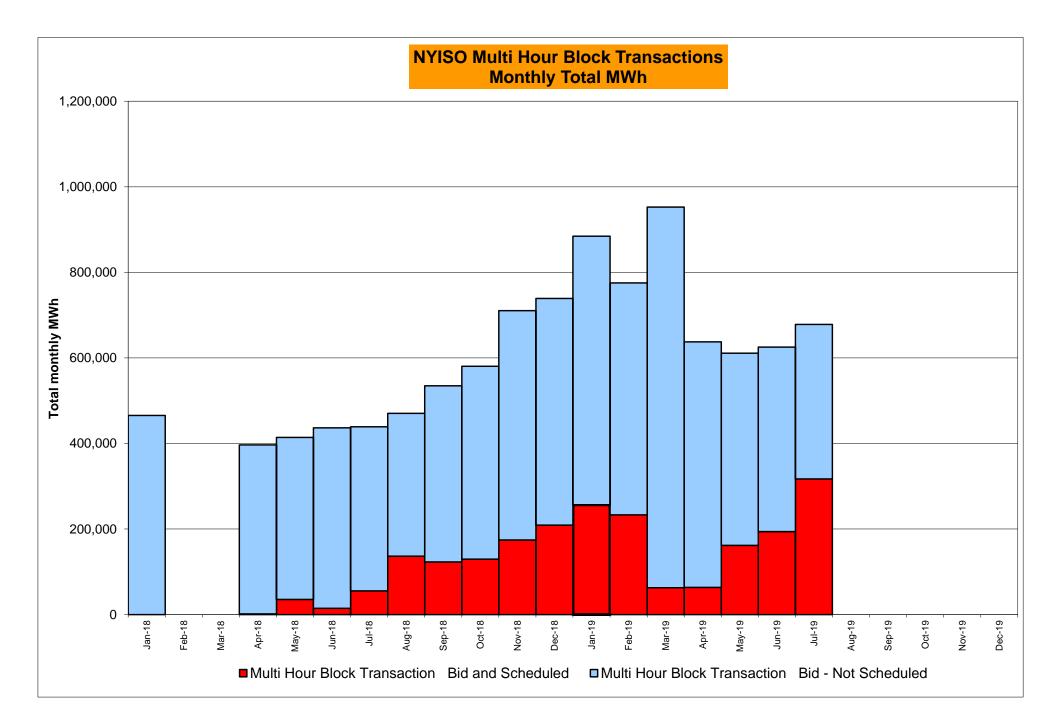
*Calendar days from reservation date; for June 2018 forward, business days from market date

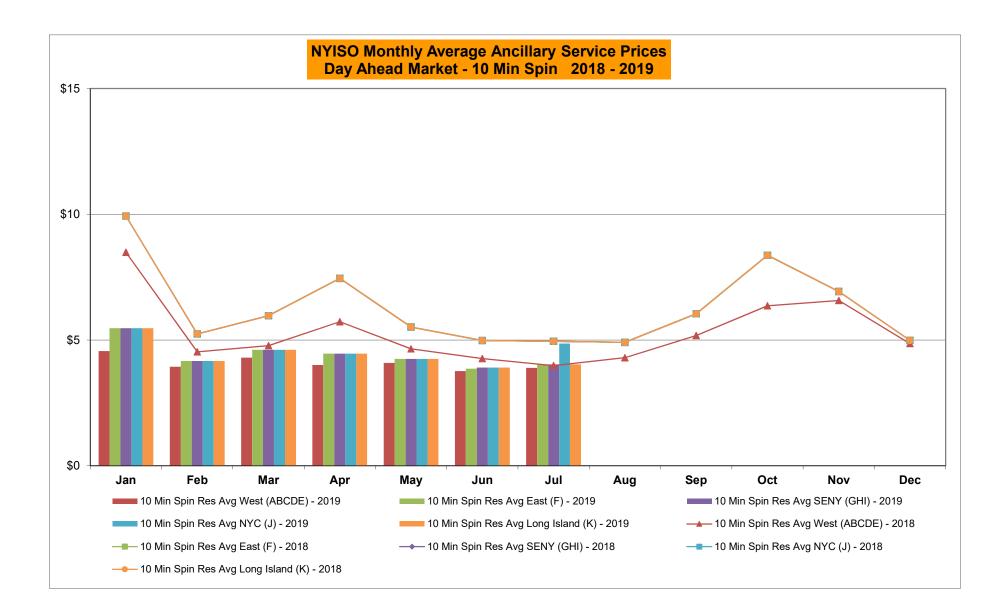


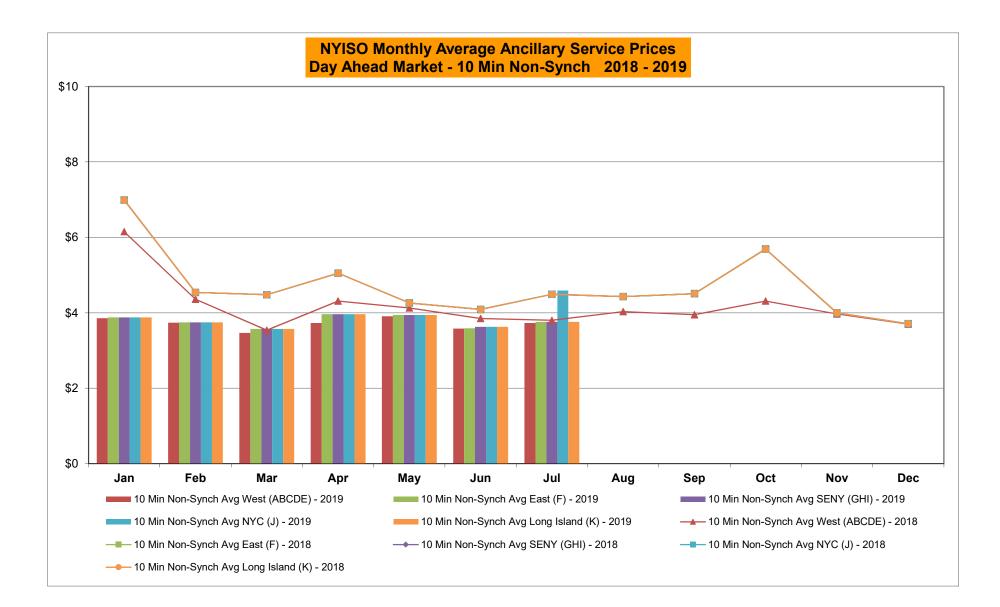


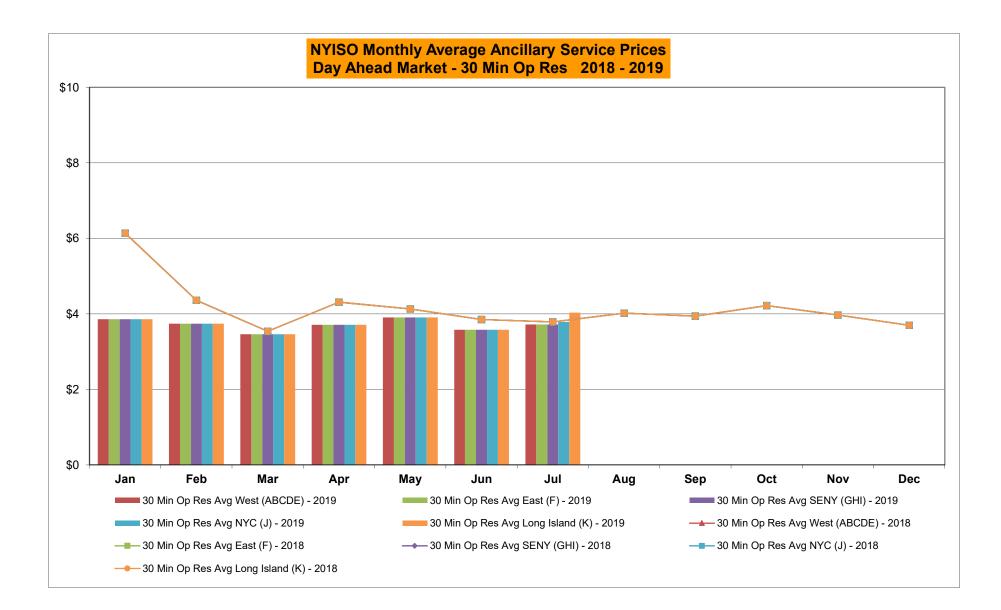
Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2019

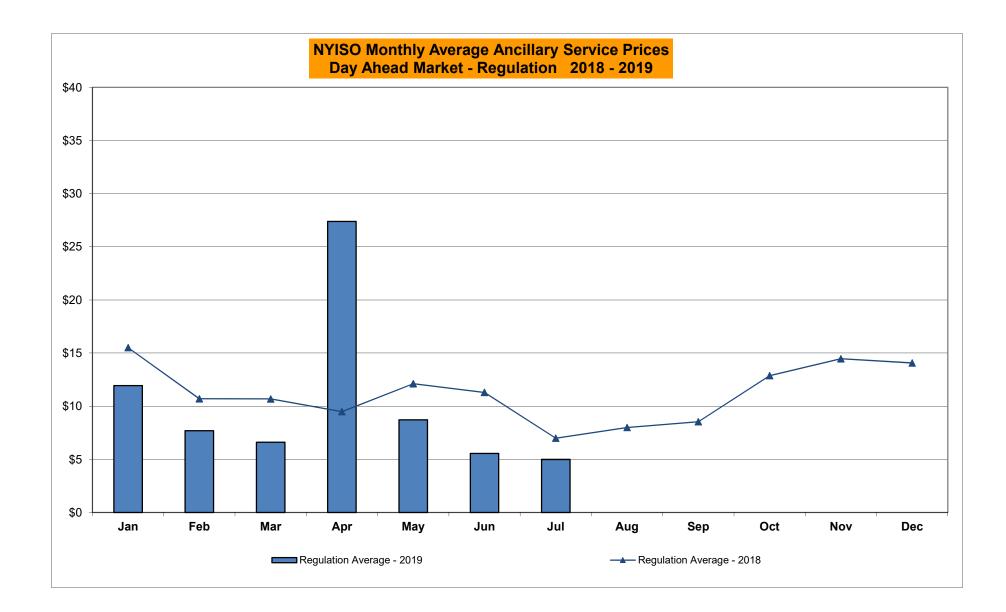
		Virtual L	.oad Bid	Virtual Su	upply Bid			Virtual L	.oad Bid	Virtual Su	Ipply Bid			Virtual L	.oad Bid	Virtual Su	upply Bid
			Not		Not				Not		Not				Not		Not
Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-19	,	5,211	1,609	797	MHK VL	Jan-19		117	1,965	471	DUNWOD	Jan-19		798	2,651	203
	Feb-19			1,397	921		Feb-19			1,709			Feb-19		494	3,273	259
	Mar-19	,	2,548	1,107	569		Mar-19	,	113	2,208	386		Mar-19	,	471	3,571	199
	Apr-19		2,589	721 818	461 783		Apr-19		43 32	1,904	331 489		Apr-19		125 153	3,278 2,999	228 255
	May-19 Jun-19		5,165 6,210	1,183	1,106		May-19 Jun-19			2,337 1,731	582		May-19 Jun-19		426	2,999	255
	Jul-19	,	5,278	1,103	856		Jul-19			3,111	336		Jul-19	,	673	1,967	290
	Aug-19		0,210	1,201			Aug-19		172	0,111	000		Aug-19	,	0/0	1,007	210
	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	Jan-19		153	3,560	529	CAPITL	Jan-19			1,550	1,424	N.Y.C.	Jan-19	,	3,061	2,599	1,366
	Feb-19			3,776	520		Feb-19		485	1,851	1,756		Feb-19	,	2,025	2,248	1,648
	Mar-19			3,224	432		Mar-19	,	383	2,004	1,666		Mar-19		1,774	2,432	968
	Apr-19				475		Apr-19		232	2,102	1,111		Apr-19		656	2,869	4,012
	May-19			2,680	1,446		May-19		362	3,006	2,580		May-19		977	3,304	4,320
	Jun-19		146	4,498	2,552		Jun-19		206 243	3,393	4,222		Jun-19		930	2,404	1,778
	Jul-19 Aug-19		215	2,807	1,125		Jul-19 Aug-19		243	3,884	3,155		Jul-19 Aug-19		1,697	1,247	1,418
	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	Jan-19	484	540	6,406	1,553	HUD VL	Jan-19	856	980	9,176	7,130	LONGIL	Jan-19	3,362	2,135	3,091	1,056
	Feb-19		359	6,559	1,743	HOD VE	Feb-19		843	7,408	7,858	LONGIE	Feb-19		1,297	3,446	1,000
	Mar-19				1,845		Mar-19			8,787	4,948		Mar-19	,	1,198	3,372	
	Apr-19			,	1,823		Apr-19	,	487	7,962	,		Apr-19		1,386	3,096	
	May-19				2,954		May-19		457	6,634	9,871		May-19		1,430	3,396	1,359
	Jun-19	481	256	4,364	2,986		Jun-19		249	8,949	9,323		Jun-19	5,177	1,639	2,391	2,303
	Jul-19	553	311	4,460	1,978		Jul-19	795	392	7,632	10,915		Jul-19	6,906	3,006	1,739	1,662
	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		123	29,111	609		Feb-19			1,311	247		Feb-19		7,905	62,089	17,582
	Mar-19		332		542		Mar-19		89	1,404	155		Mar-19	,	8,993	60,159	12,736
	Apr-19			22,748	453		Apr-19			1,636	371		Apr-19		6,153	58,038	18,807
	May-19			26,474	474		May-19			1,687	505		May-19		9,615		25,035
	Jun-19			26,799	832		Jun-19			1,940			Jun-19		10,583	60,017	26,481
	Jul-19		209	27,998	642		Jul-19		452	1,156	470		Jul-19		12,618	57,203	22,833
	Aug-19						Aug-19						Aug-19				
	Sep-19						Sep-19						Sep-19				
	Oct-19 Nov-19						Oct-19 Nov-19						Oct-19 Nov-19				
	Dec-19						Dec-19						Dec-19				

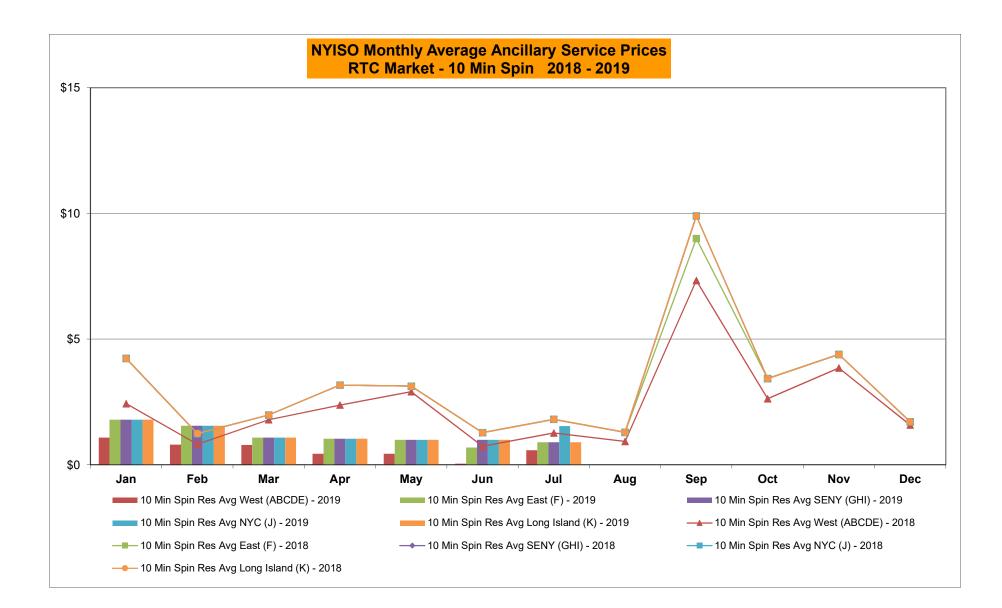


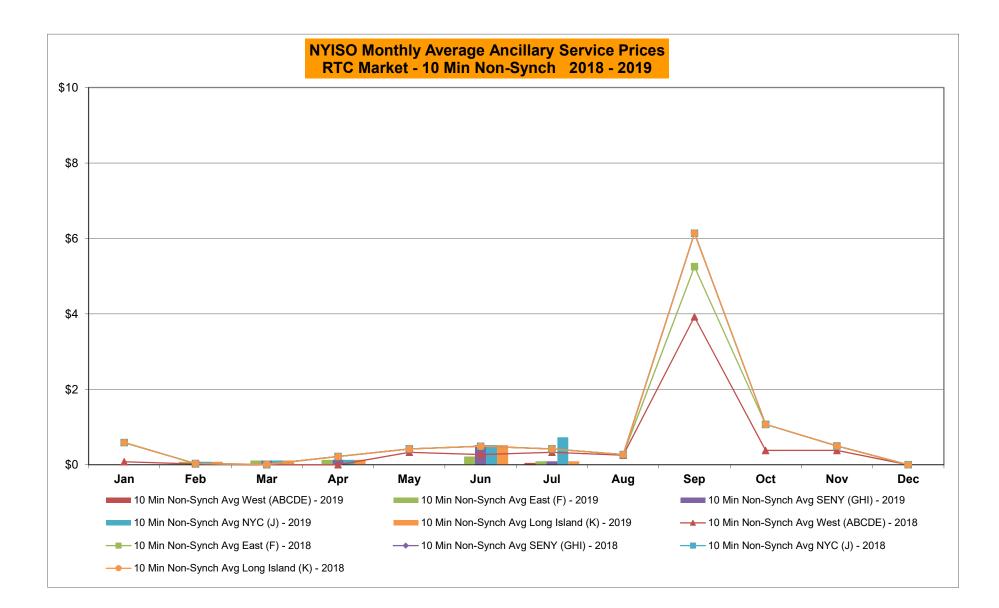


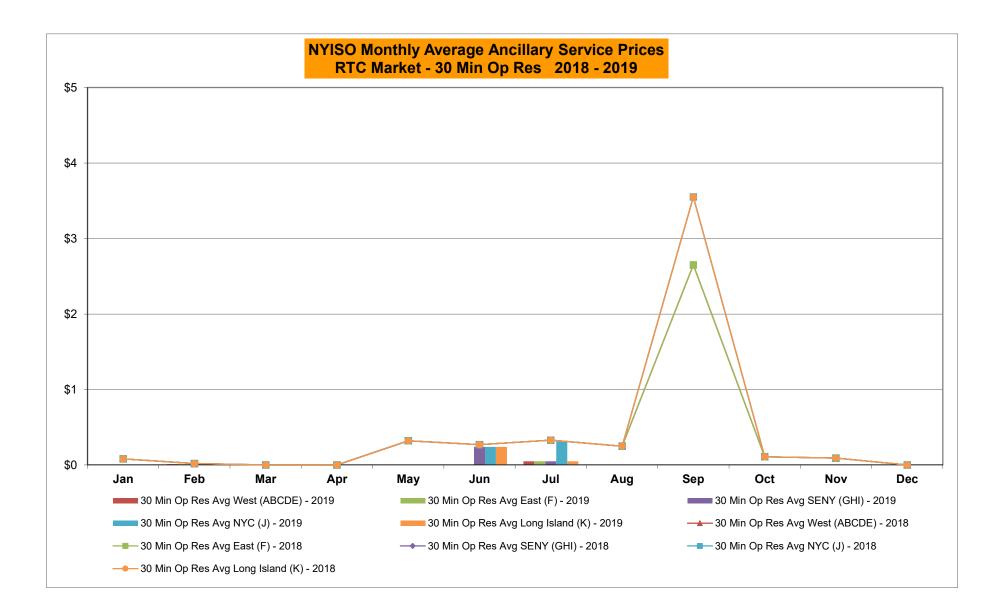


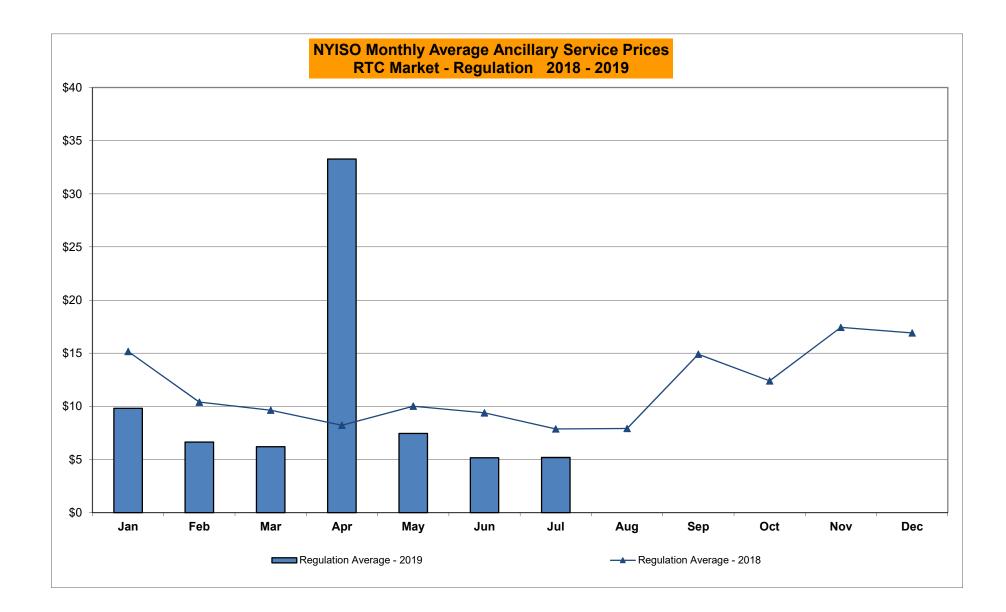




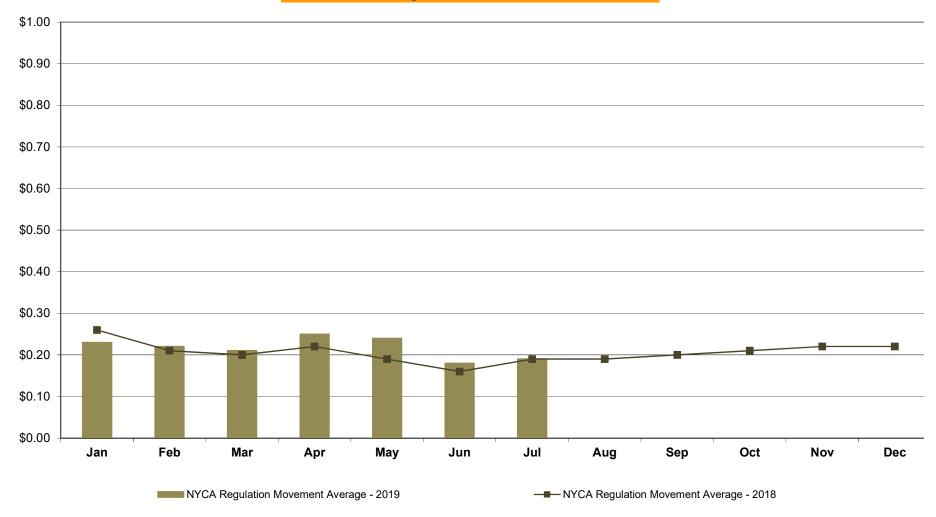


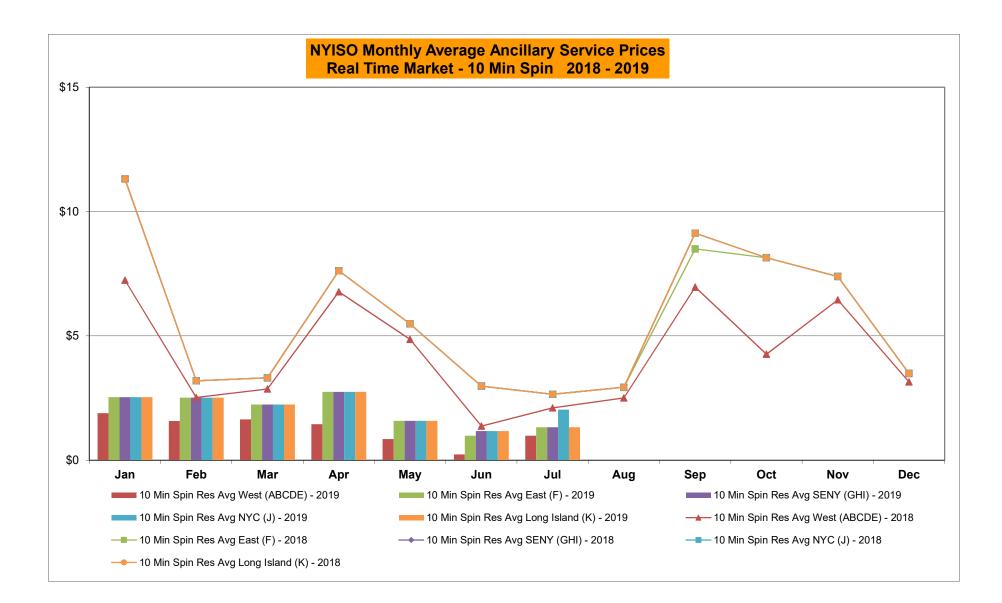


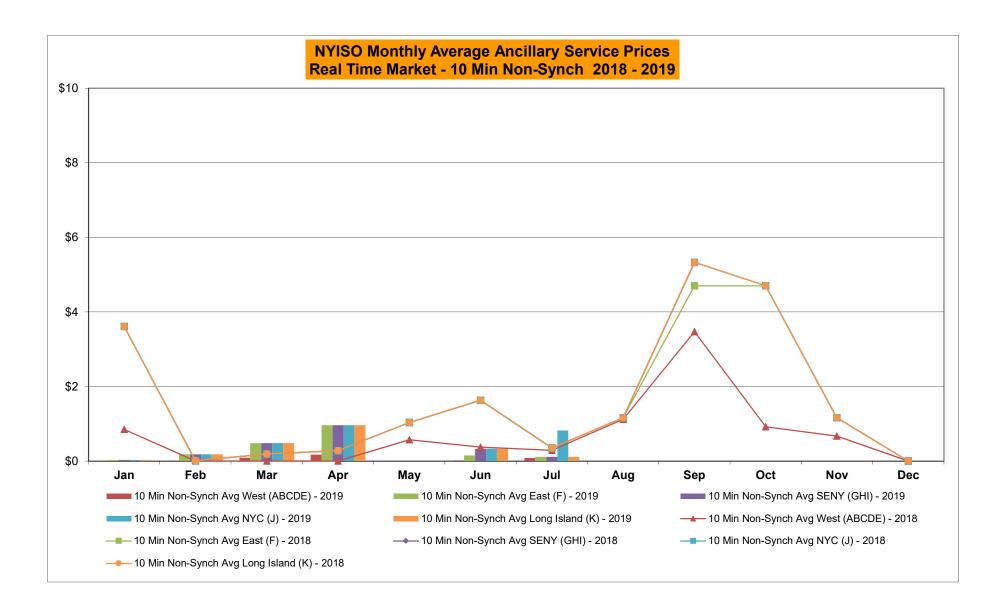


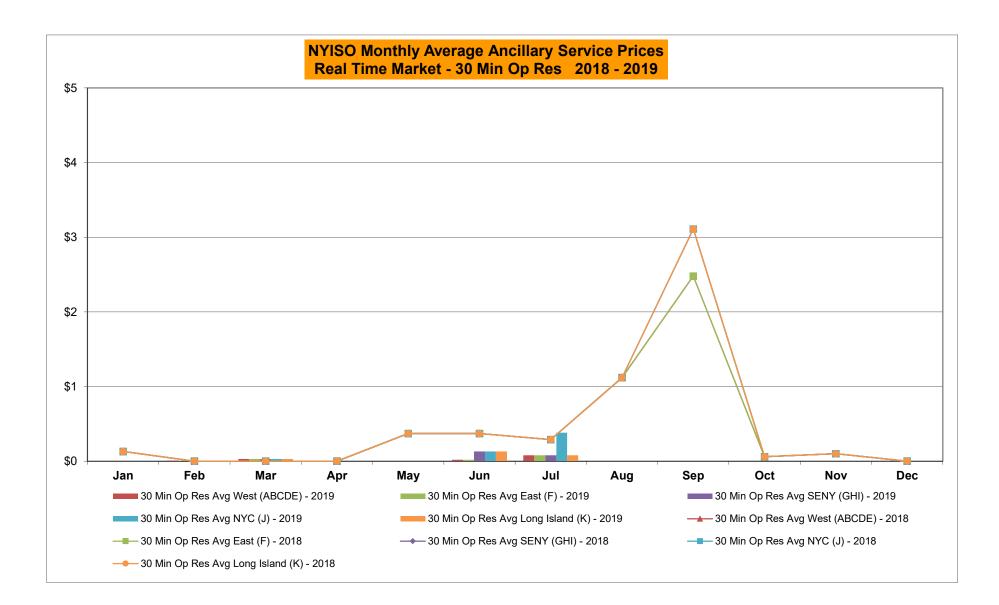


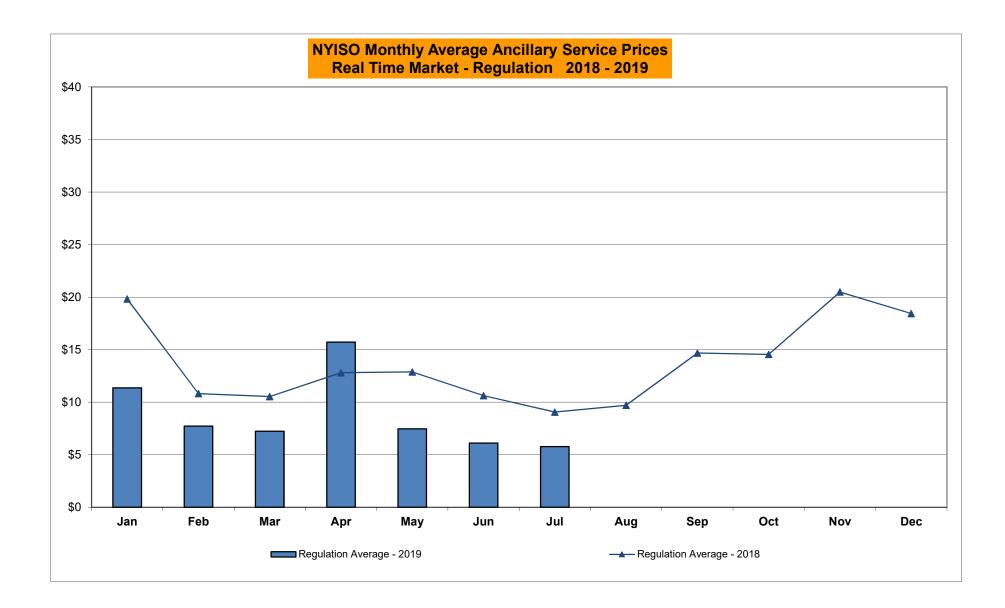
NYISO Monthly Average Ancillary Service Prices RTC Market - Regulation Movement 2018 - 2019



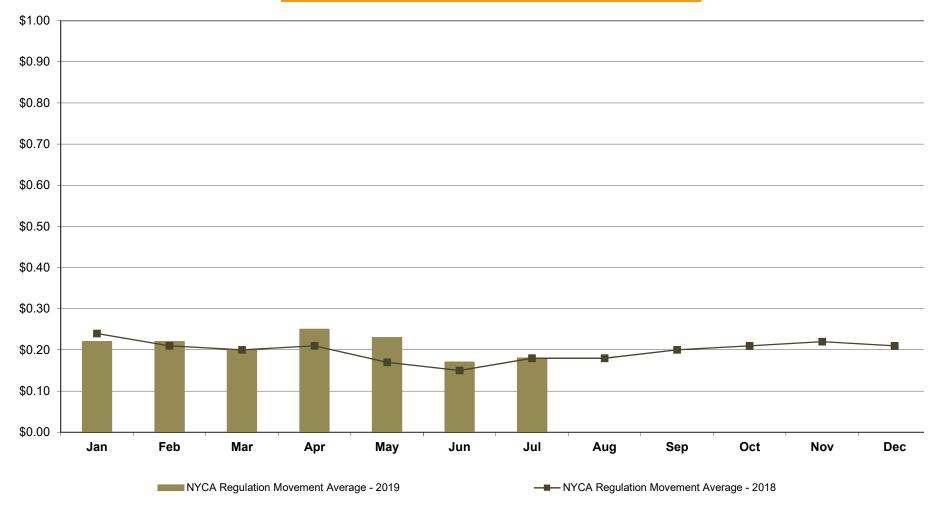








NYISO Monthly Average Ancillary Service Prices Real Time Market - Regulation Movement 2018 - 2019



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

<u>2019</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	July	<u>August</u>	<u>September</u>	<u>October</u>	November	December
Day Ahead Market												
10 Min Spin Long Island (K)	5.47	4.17	4.61	4.46	4.25	3.90	4.03					
10 Min Spin NYC (J)	5.47	4.17	4.61	4.46	4.25	3.90	4.86					
10 Min Spin SENY (GHI)	5.47	4.17	4.61	4.46	4.25	3.90	4.03					
10 Min Spin East (F)	5.47	4.17	4.61	4.46	4.25	3.86	4.03					
10 Min Spin West (ABCDE)	4.56	3.94	4.30	4.01	4.09	3.77	3.89					
10 Min Non Synch Long Island (K)	3.88	3.75	3.57	3.96	3.94	3.63	3.76					
10 Min Non Synch NYC (J)	3.88	3.75	3.57	3.96	3.94	3.63	4.59					
10 Min Non Synch SENY (GHI)	3.88	3.75	3.57	3.96	3.94	3.63	3.76					
10 Min Non Synch East (F)	3.88	3.75	3.57	3.96	3.94	3.59	3.76					
10 Min Non Synch West (ABCDE)	3.86	3.74	3.47	3.73	3.91	3.58	3.73					
30 Min Long Island (K)	3.86	3.74	3.46	3.71	3.91	3.58	3.72					
30 Min NYC (J)	3.86	3.74	3.46	3.71	3.91	3.58	3.79					
30 Min SENY (GHI)	3.86	3.74	3.46	3.71	3.91	3.58	3.72					
30 Min East (F)	3.86	3.74	3.46	3.71	3.91	3.58	3.72					
30 Min West (ABCDE)	3.86	3.74	3.46	3.71	3.91	3.58	3.72					
Regulation	11.94	7.69	6.62	27.38	8.71	5.57	4.99					
2018	January	February	March	April	May	<u>June</u>	July	August	<u>September</u>	<u>October</u>	November	December
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
10 Min Spin East (F)	9.93	5.24	5.97	7.45	5.52	4.98	4.95	4.91	6.04	8.37	6.93	4.99
10 Min Spin West (ABCDE)	8.49	4.53	4.78	5.73	4.65	4.26	3.98	4.30	5.18	6.36	6.57	4.86
10 Min Non Synch SENY (GHIJK)	6.99	4.54	4.48	5.05	4.26	4.09	4.49	4.43	4.51	5.69	4.00	3.71
10 Min Non Synch East (F)	6.99	4.54	4.48	5.05	4.26	4.09	4.49	4.43	4.51	5.69	4.00	3.71
10 Min Non Synch West (ABCDE)	6.15	4.36	3.54	4.31	4.13	3.85	3.80	4.03	3.95	4.31	3.97	3.70
30 Min SENY (GHIJK)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
30 Min East (F)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
30 Min West (ABCDE)	6.14	4.36	3.54	4.31	4.13	3.85	3.79	4.02	3.94	4.22	3.97	3.70
Regulation	15.51	10.70	10.68	9.49	12.11	11.30	6.99	8.00	8.54	12.88	14.47	14.07

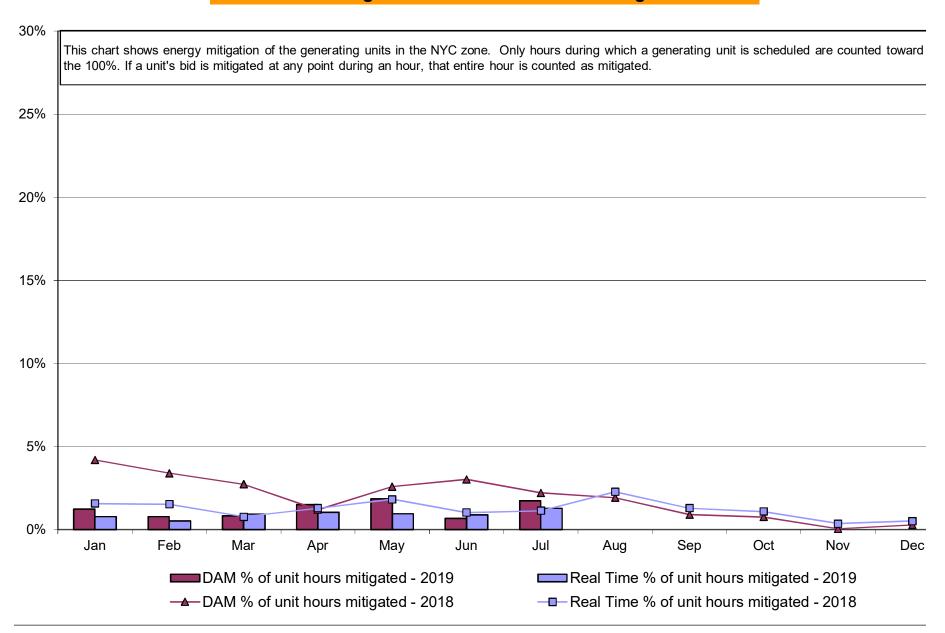
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT	ГС
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<u>2019</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	July	<u>August</u>	<u>September</u>	October	November	December
RTC Market												
10 Min Spin Long Island (K)	1.80	1.55	1.08	1.04	0.99	0.99	0.90					
10 Min Spin NYC (J)	1.80	1.55	1.08	1.04	0.99	0.99	1.54					
10 Min Spin SENY (GHI)	1.80	1.55	1.08	1.04	0.99	0.99	0.90					
10 Min Spin East (F)	1.80	1.55	1.08	1.04	0.99	0.69	0.90					
10 Min Spin West (ABCDE)	1.08	0.80	0.79	0.44	0.44	0.05	0.58					
10 Min Non Synch Long Island (K)	0.01	0.08	0.11	0.13	0.00	0.52	0.09					
10 Min Non Synch NYC (J)	0.01	0.08	0.11	0.13	0.00	0.52	0.73					
10 Min Non Synch SENY (GHI)	0.01	0.08	0.11	0.13	0.00	0.52	0.09					
10 Min Non Synch East (F)	0.01	0.08	0.11	0.13	0.00	0.22	0.09					
10 Min Non Synch West (ABCDE)	0.00	0.01	0.01	0.00	0.00	0.00	0.05					
30 Min Long Island (K)	0.00	0.01	0.01	0.00	0.00	0.24	0.05					
30 Min NYC (J)	0.00	0.01	0.01	0.00	0.00	0.24	0.31					
30 Min SENY (GHI)	0.00	0.01	0.01	0.00	0.00	0.24	0.05					
30 Min East (F)	0.00	0.01	0.01	0.00	0.00	0.00	0.05					
30 Min West (ABCDE)	0.00	0.01	0.01	0.00	0.00	0.00	0.05					
Regulation	9.81	6.64	6.21	33.26	7.45	5.16	5.19					
NYCA Regulation Movement	0.23	0.22	0.21	0.25	0.24	0.18	0.19					
2018	January	February	March	April	May	June	July	August	<u>September</u>	October	November	December
RTC Market												
10 Min Spin SENY (GHIJK)	4.23	1.24	1.98	3.17	3.13	1.28	1.81	1.29	9.90	3.43	4.39	1.71
10 Min Spin East (F)	4.23	1.24	1.98	3.17	3.13	1.28	1.81	1.29	9.00	3.43	4.39	1.71
10 Min Spin West (ABCDE)	2.43	0.82	1.79	2.38	2.91	0.74	1.27	0.93	7.33	2.63	3.85	1.58
10 Min Non Synch SENY (GHIJK)	0.59	0.03	0.01	0.22	0.42	0.49	0.42	0.27	6.14	1.07	0.50	0.00
10 Min Non Synch East (F)	0.59	0.03	0.01	0.22	0.42	0.49	0.42	0.27	5.25	1.07	0.50	0.00
10 Min Non Synch West (ABCDE)	0.08	0.02	0.00	0.00	0.33	0.27	0.33	0.25	3.92	0.38	0.38	0.00
30 Min SENY (GHIJK)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	3.55	0.11	0.09	0.00
30 Min East (F)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	2.65	0.11	0.09	0.00
30 Min West (ABCDE)	0.08	0.02	0.00	0.00	0.32	0.27	0.33	0.25	2.65	0.11	0.09	0.00
Regulation	15.17	10.40	9.63	8.22	10.01	9.39	7.87	7.92	14.90	12.40	17.43	16.90
NYCA Regulation Movement	0.26	0.21	0.20	0.22	0.19	0.16	0.19	0.19	0.20	0.21	0.22	0.22
it i of the galation movement	0.20	0.21	0.20	0.22	0.10	0.10	0.10	0.10	0.20	0.21	0.22	0.22

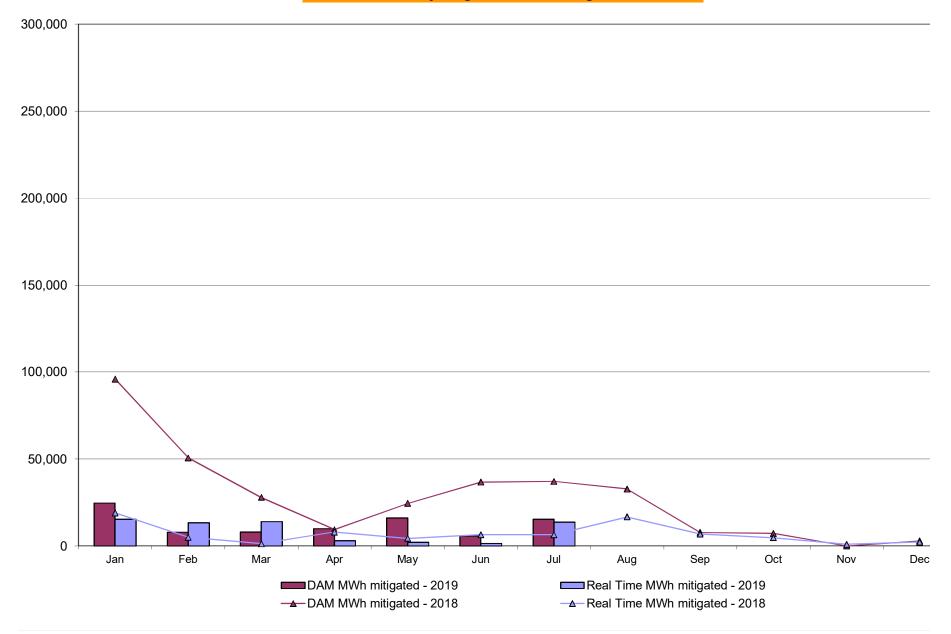
NYISO Markets Ancillary Services Statistics - Unweighted Price (\$/MWH) - RT

<u>2019</u>	<u>January</u>	February	March	<u>April</u>	May	June	July	<u>August</u>	September	October	<u>November</u>	December
Real Time Market												
10 Min Spin Long Island (K)	2.53	2.51	2.24	2.75	1.58	1.17	1.32					
10 Min Spin NYC (J)	2.53	2.51	2.24	2.75	1.58	1.17	2.03					
10 Min Spin SENY (GHI)	2.53	2.51	2.24	2.75	1.58	1.17	1.32					
10 Min Spin East (F)	2.53	2.51	2.24	2.75	1.58	0.98	1.32					
10 Min Spin West (ABCDE)	1.89	1.57	1.64	1.45	0.85	0.23	0.98					
10 Min Non Synch Long Island (K)	0.03	0.18	0.48	0.96	0.00	0.33	0.11					
10 Min Non Synch NYC (J)	0.03	0.18	0.48	0.96	0.00	0.33	0.82					
10 Min Non Synch SENY (GHI)	0.03	0.18	0.48	0.96	0.00	0.33	0.11					
10 Min Non Synch East (F)	0.03	0.18	0.48	0.96	0.00	0.15	0.11					
10 Min Non Synch West (ABCDE)	0.00	0.01	0.09	0.17	0.00	0.02	0.08					
30 Min Long Island (K)	0.00	0.01	0.03	0.00	0.00	0.13	0.08					
30 Min NYC (J)	0.00	0.01	0.03	0.00	0.00	0.13	0.38					
30 Min SENY (GHI)	0.00	0.01	0.03	0.00	0.00	0.13	0.08					
30 Min East (F)	0.00	0.01	0.03	0.00	0.00	0.02	0.08					
30 Min West (ABCDE)	0.00	0.01	0.03	0.00	0.00	0.02	0.08					
Regulation	11.36	7.72	7.23	15.73	7.47	6.11	5.77					
NYCA Regulation Movement	0.22	0.22	0.20	0.25	0.23	0.17	0.18					
<u>2018</u>	<u>January</u>	February	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
Real Time Market												
10 Min Spin SENY (GHIJK)	11.31	3.19	3.31	7.62	5.48	2.98	2.65	2.93	9.13	8.14	7.39	3.49
10 Min Spin East (F)	11.31	3.19	3.31	7.62	5.48	2.98	2.65	2.93	8.50	8.14	7.39	3.49
10 Min Spin West (ABCDE)	7.24	2.52	2.86	6.77	4.86	1.37	2.10	2.50	6.96	4.26	6.45	3.15
10 Min Non Synch SENY (GHIJK)	3.61	0.01	0.19	0.28	1.03	1.63	0.35	1.16	5.33	4.70	1.16	0.00
10 Min Non Synch East (F)	3.61	0.01	0.19	0.28	1.03	1.63	0.35	1.16	4.70	4.70	1.16	0.00
10 Min Non Synch West (ABCDE)	0.85	0.00	0.00	0.00	0.57	0.37	0.29	1.12	3.47	0.92	0.67	0.00
30 Min SENY (GHIJK)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	3.11	0.06	0.10	0.00
30 Min East (F)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	2.48	0.06	0.10	0.00
30 Min West (ABCDE)	0.13	0.00	0.00	0.00	0.37	0.37	0.29	1.12	2.48	0.06	0.10	0.00
Regulation	19.82	10.82	10.54	12.80	12.88	10.62	9.06	9.71	14.67	14.54	20.48	18.44
NYCA Regulation Movement	0.24	0.21	0.20	0.21	0.17	0.15	0.18	0.18	0.20	0.21	0.22	0.21

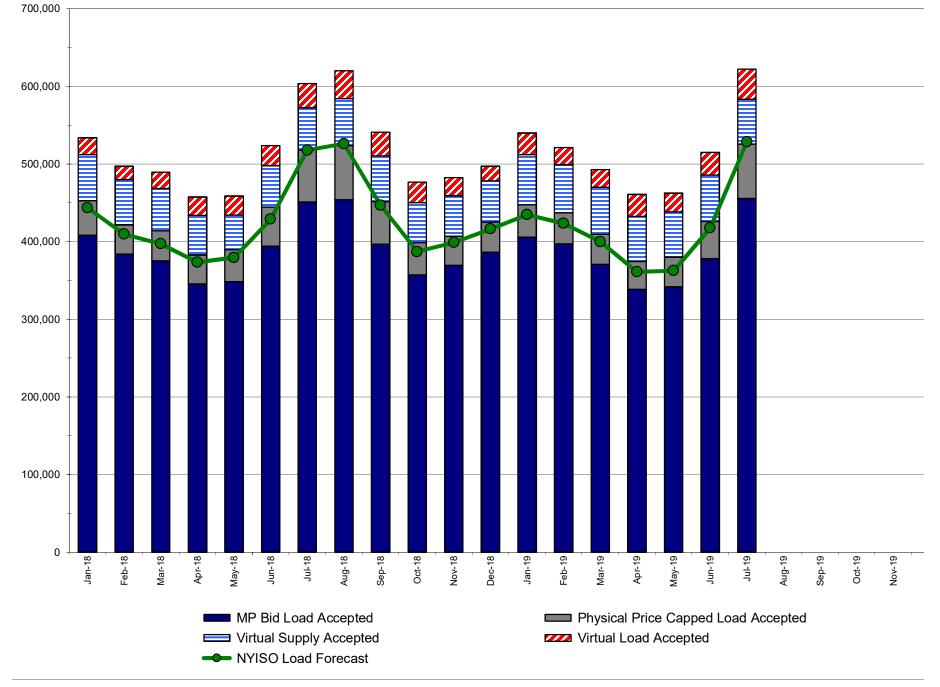
NYISO In City Energy Mitigation - AMP (NYC Zone) 2018 - 2019 Percentage of committed unit-hours mitigated



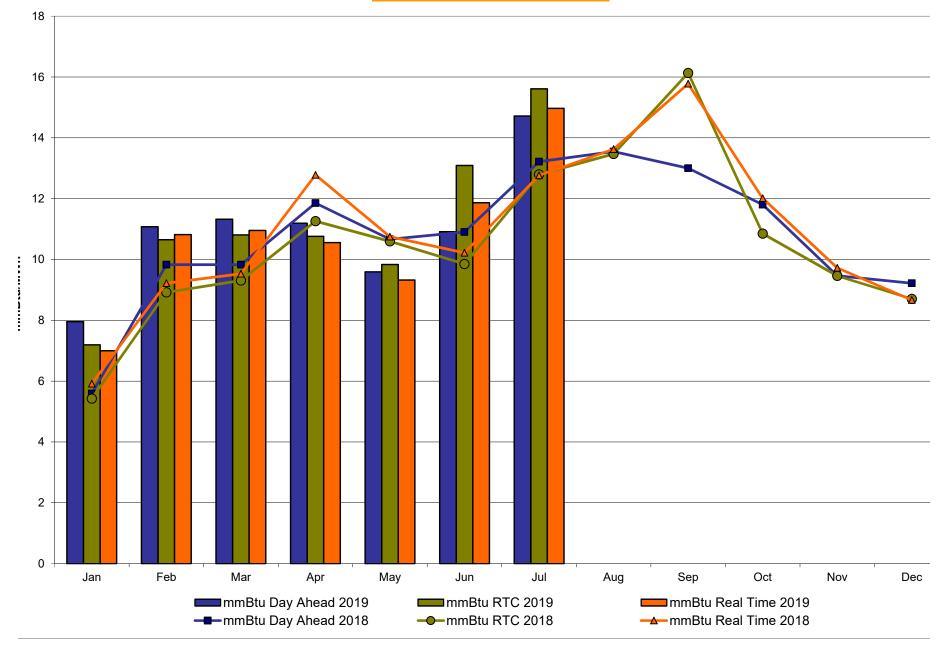
NYISO In City Energy Mitigation (NYC Zone) 2018 - 2019 Monthly megawatt hours mitigated



NYISO Average Daily DAM Load Bid Summary

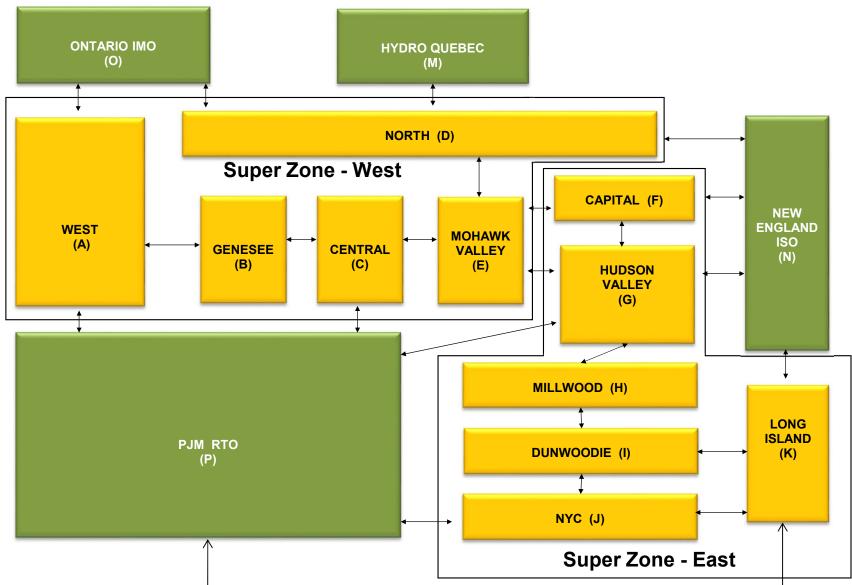


Monthly Implied Heat Rate 2018-2019



Market Mitigation and Analysis Prepared: 8/12/2019 4:18 PM

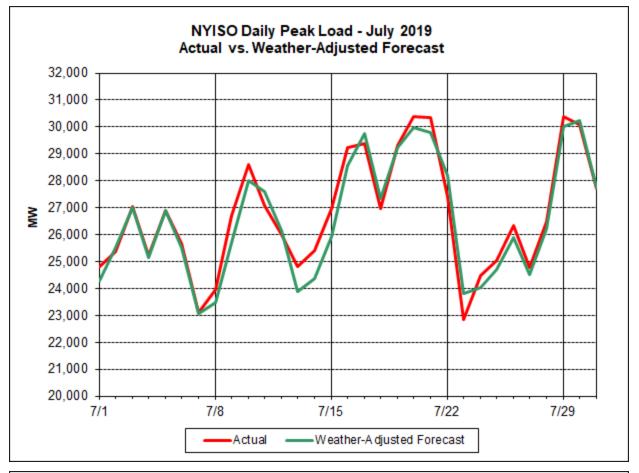
NYISO LBMP ZONES

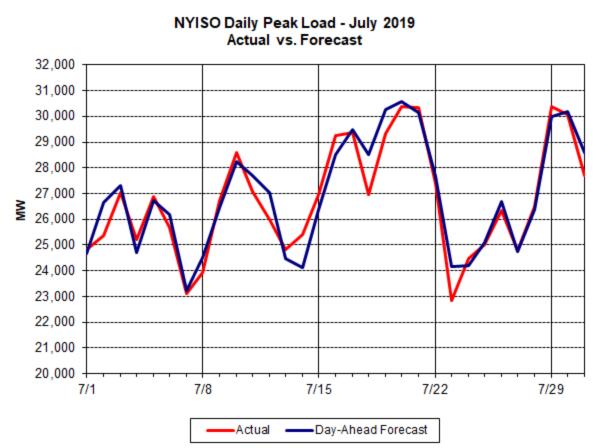


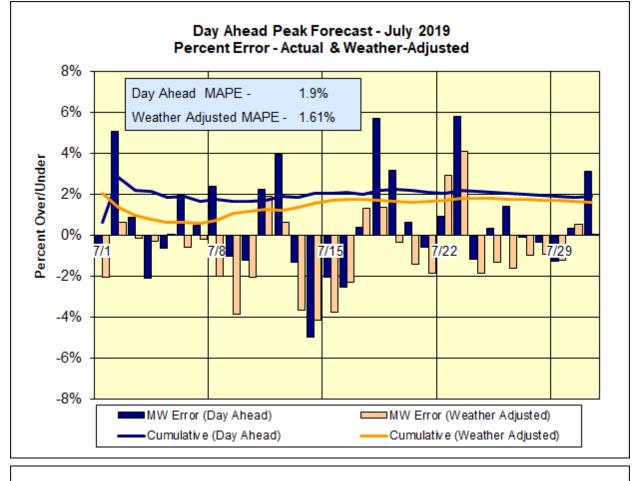
Market Mitigation and Analysis Prepared: 8/12/2019 4:19 PM

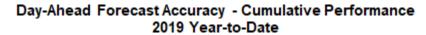
Billing Codes for Chart C

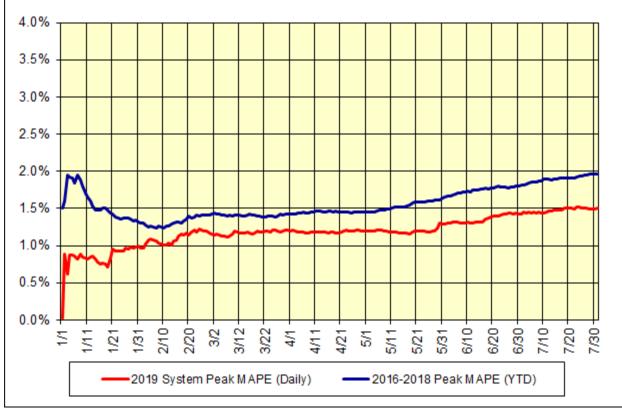
Chart - C Category Name	Billing Code	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee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











Summary Description of Regulatory Filings, Investigations, Rulemakings and Related Orders in NYISO Matters – July 2019									
Filing Date	Filing Summary	Docket No.	Order Date	Order Summary					
05/17/2019	NYISO filing re: motion to modify the NYISO's annual ICAP and DSM, and semi-annual new generation and demand response program informational reporting obligations	ER01-3001-000 ER03-647-000	07/29/2019	Order granted request to discontinue formal filing of the Annual ICAP Report, the Semi-Annual Report and the DSM Report					
05/24/2019	NYISO compliance filing re: to establish an effective date for tariff revisions implementing the operator-initiated commitment report	ER18-2400-002	07/17/2019	Order accepted revisions effective 06/11/2019, as requested					
06/11/2019	NYISO 205 filing re: revisions to implement modified requirements for external installed capacity suppliers and external generators that are associated with an unforced capacity sale to New York	ER19-2104-000	07/30/2019	Order accepted revisions effective 08/12/2019, as requested					
06/14/2019	NYISO 205 filing re: MST 26.6 revisions to modify the provision of cash collateral	ER19-2136-000	07/17/2019	Order accepted revisions effective 08/14/2019, as requested					
07/09/2019	NYISO filing to the New York Joint Commission on Public Ethics re: bimonthly report for the period 05/01/2019 – 6/30/2019								
07/11/2019	NYISO answer to comments re: 05/22/2019 Order No. 845 compliance filing - Interconnection Procedures	ER19-1949-000							
07/15/2019	NYISO confidential filing to the NYPSC re: three-month Reliability Commitment Data Report for the period ending 06/30/2019	PSC Matter No. 10-02007							
07/17/2019	NYISO filing of its second quarter 2019 Electric Quarterly Report	No Docket No.							
07/19/2019	NYISO motion re: request for action on compliance filing, notice of implementation plans and conditional request for tariff waivers concerning the renewable resources exemption	ER16-1404-000							
07/26/2019	NYISO 205 filing on behalf of Niagara Mohawk Power Corporation ("NMPC") re: Engineering and Procurement Agreement (Service Agreement No. 2471) between NMPC and Invenergy Wind Development LLC	ER19-2467-000							
07/26/2019	NYISO filing to the New York Joint Commission on Public Ethics re: semi-annual report for the period 01/01/2019 – 06/30/2019								

07/31/2019	NYISO confidential filing to the NYPSC re: Quarterly Project Tracking Report concerning the status of proposed generation and transmission projects through 06/30/2019	PSC Matter No. 10-02007		
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