Operations Performance Metrics Monthly Report









December 2023 Report

Operations & Reliability Department New York Independent System Operator



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December 2023 Operations Performance Highlights

Monthly Peak Load Monthly Minimum Load		Winter 2023-2024 Peak	All-time Winter Peak
12/19/2023 HB 17	12/10/2023 HB 04	11/29/2023 HB 17	01/07/2014 HB 18
21,001 MW	13,136 MW	21,305 MW	25,738 MW

- 0.0 hours of Thunderstorm Alerts were declared
- 0.0 hours of NERC TLR level 3 curtailment
- Edic-Princetown 345kV (#351) and Edic-Princetown 345kV (#352) transmission facilities associated with AC Transmission Public Policy Segment A were placed in-service on 12/07/2023 and 12/11/2023 respectively. This work signifies completion of the significant portion of AC Transmission Public Policy Segment A.
- As part of AC Transmission Public Policy Segment B work, Knickerbocker-Pleasant Valley 345kV (#Y57) series compensation devices were made available on 12/14/2023.

Installed Wind, Solar and Energy Storage Resource Nameplate Values:

Land-Based Wind Behind-the-Meter		Front-of-the-Meter	Energy Storage
	Solar	Solar	Resource (ESR)
2,736 MW	5,227 MW	194 MW	63 MW

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	(\$4.66)	\$6.48
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.07)	(\$1.67)
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.77	\$0.07
Total NY Savings	(\$3.97)	\$4.88
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.49	\$7.50
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.22	\$1.34
Total Regional Savings	\$0.72	\$8.84

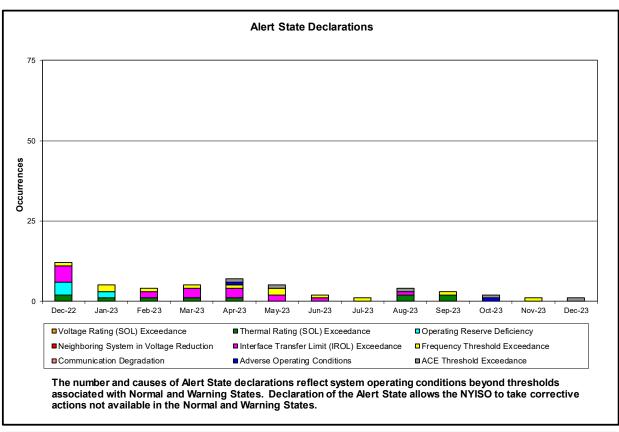
- Statewide uplift cost monthly average was (\$0.06)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

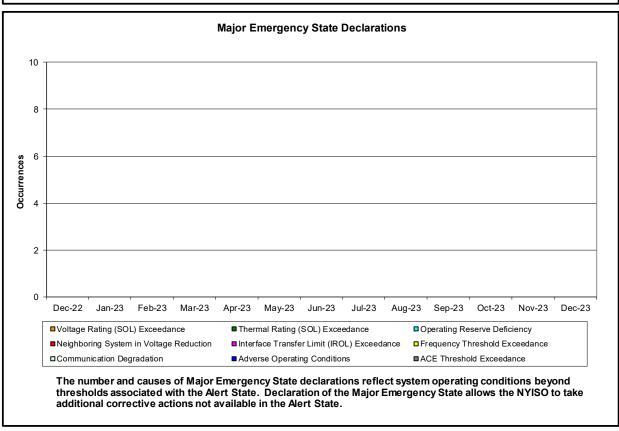
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
December 2023 Spot Price	\$3.23	\$3.23	\$12.81	\$3.23
November 2023 Spot Price	\$0.95	\$1.28	\$12.83	\$0.95
Delta	\$2.28	\$1.95	(\$0.02)	\$2.28

Price changes in NYCA, GHI, and LI were driven by an increase in exports.

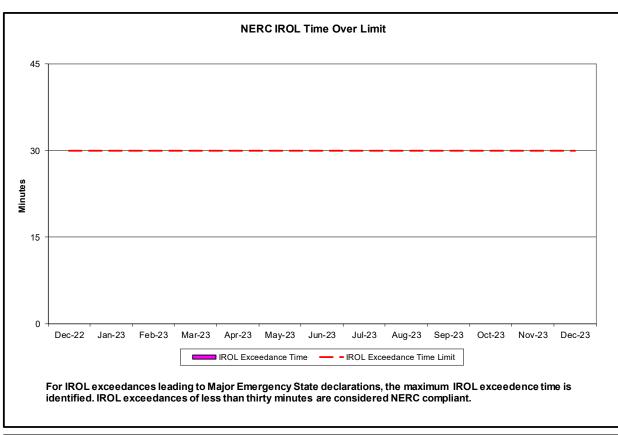


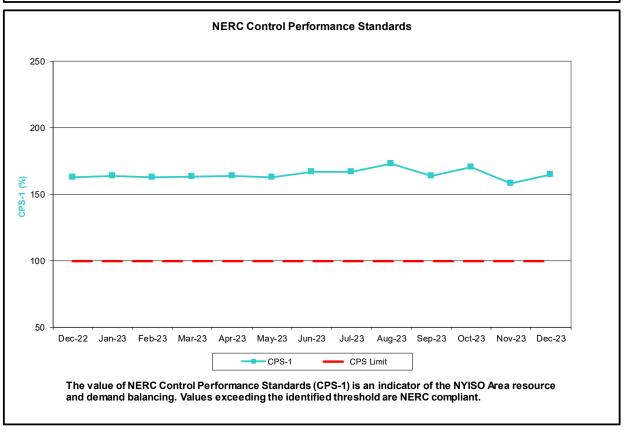
Reliability Performance Metrics



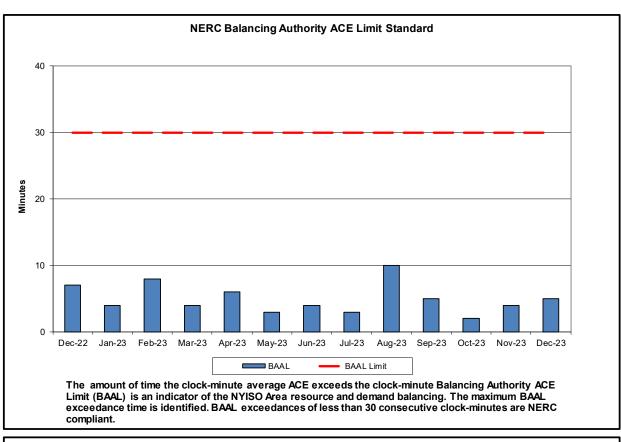


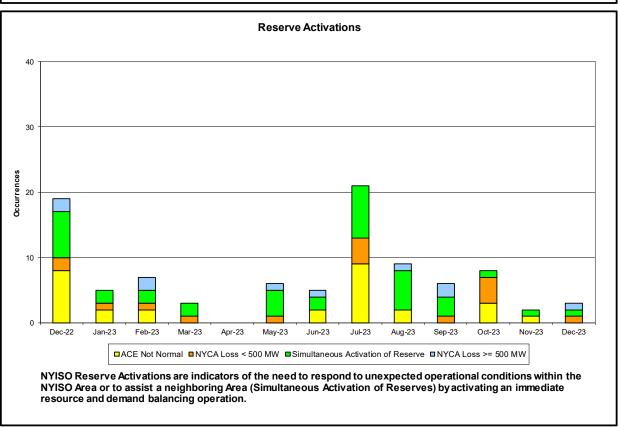




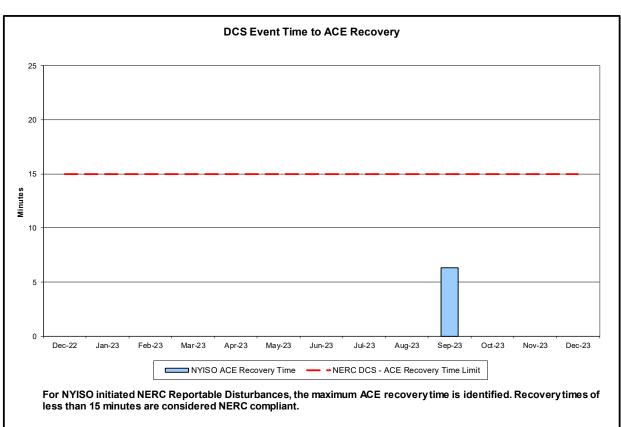


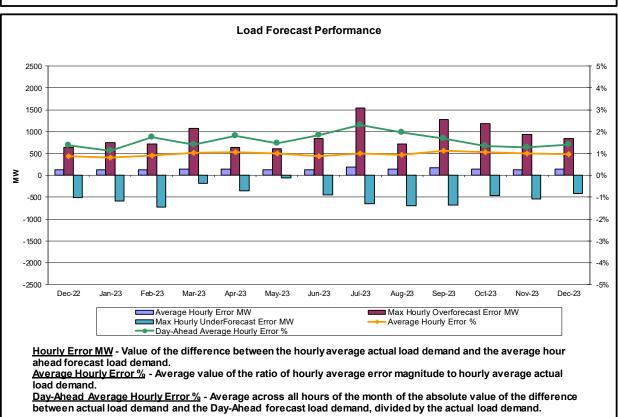




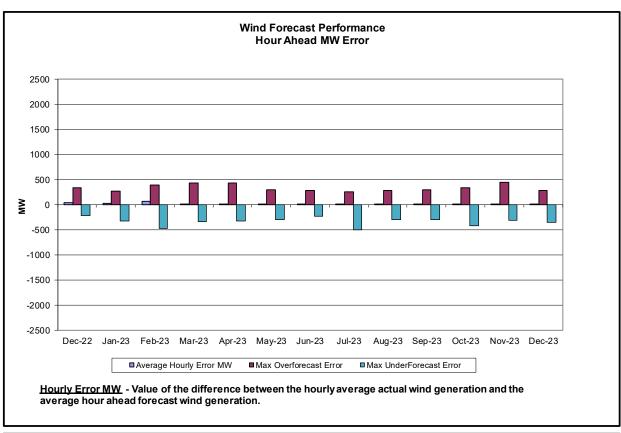


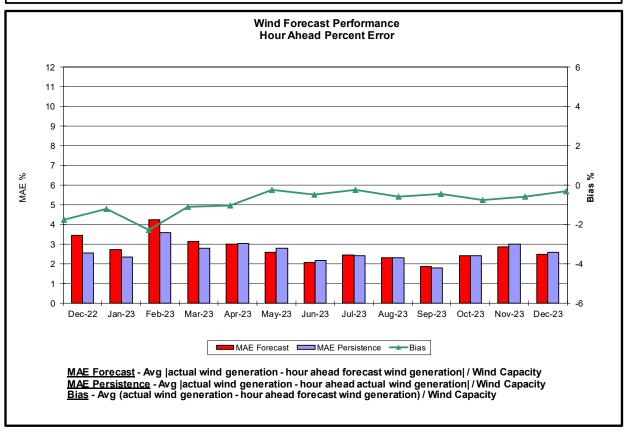




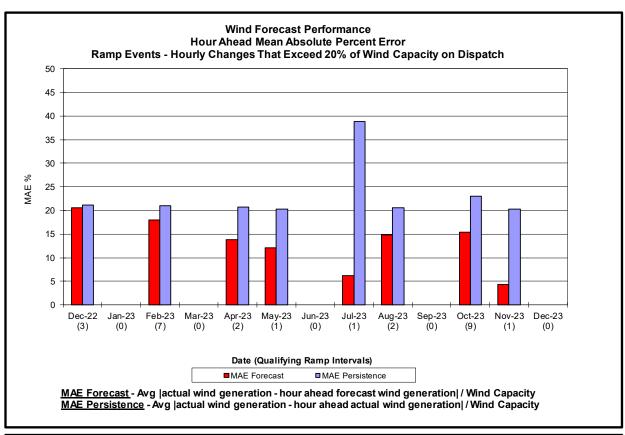


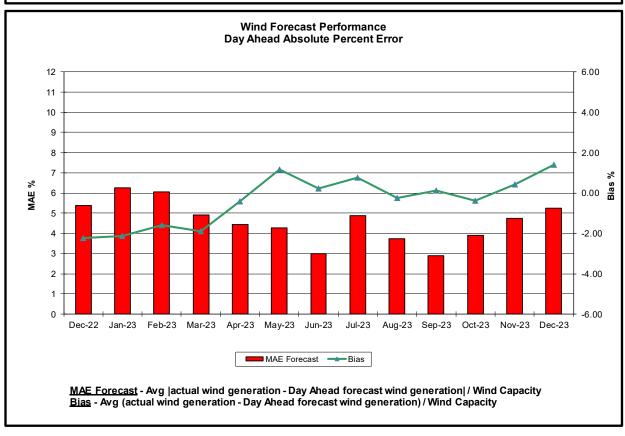




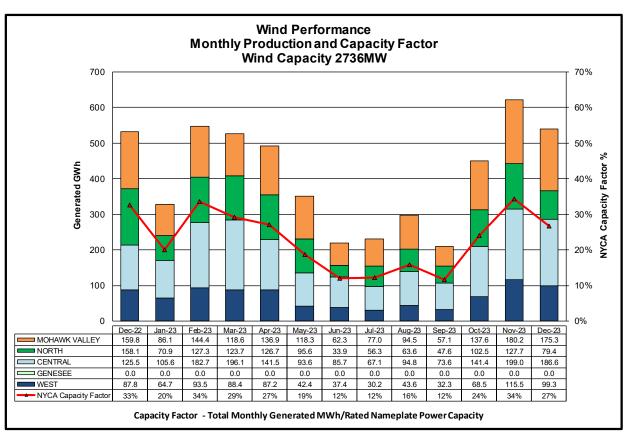


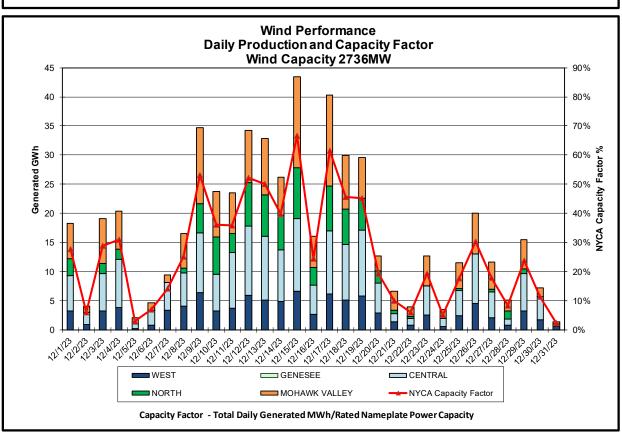




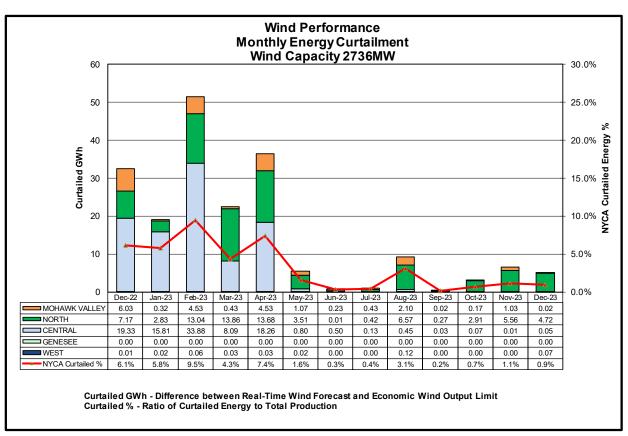


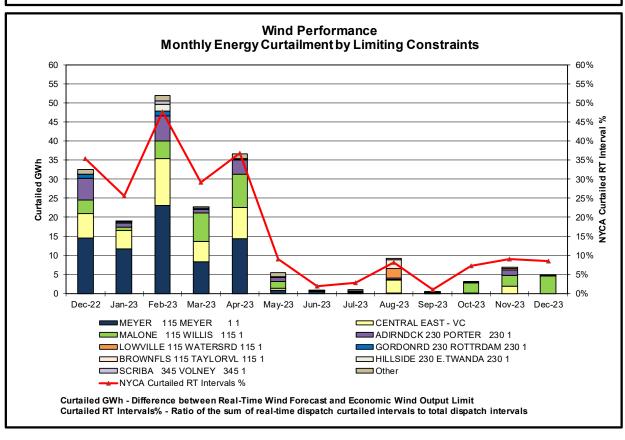




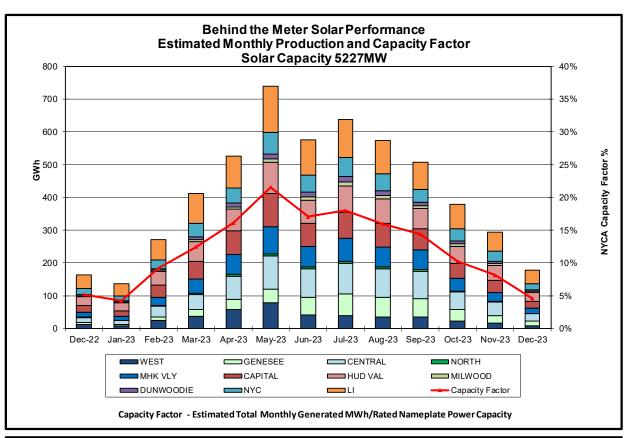


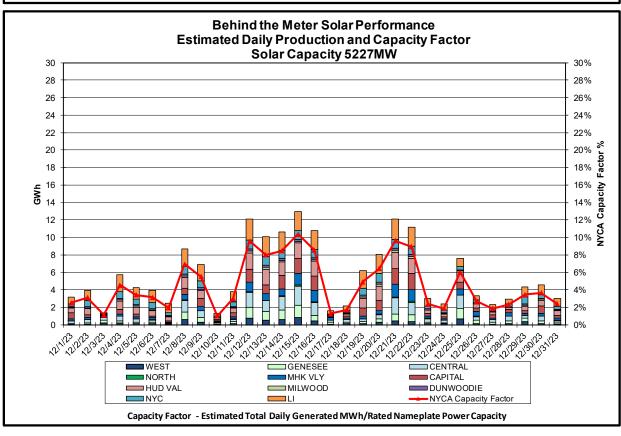




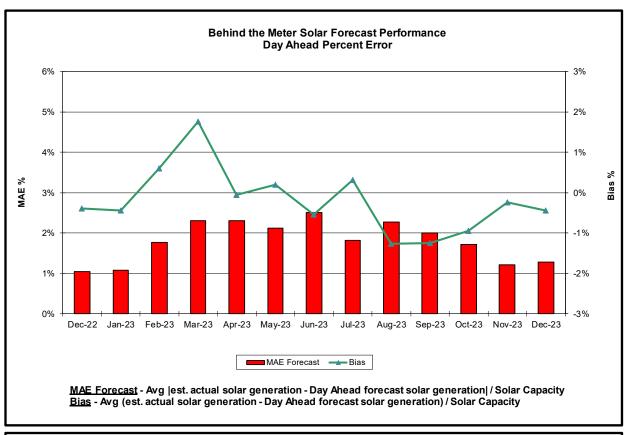


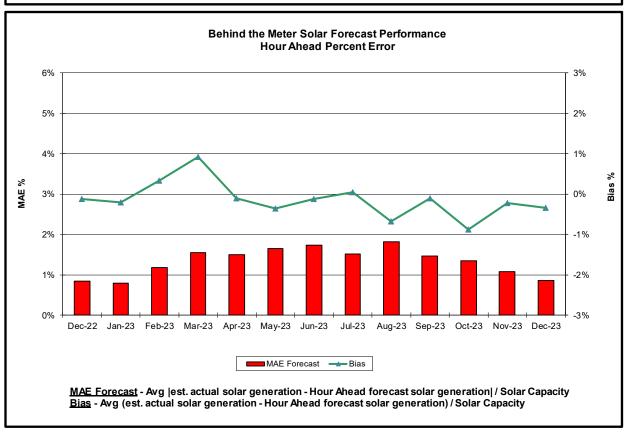




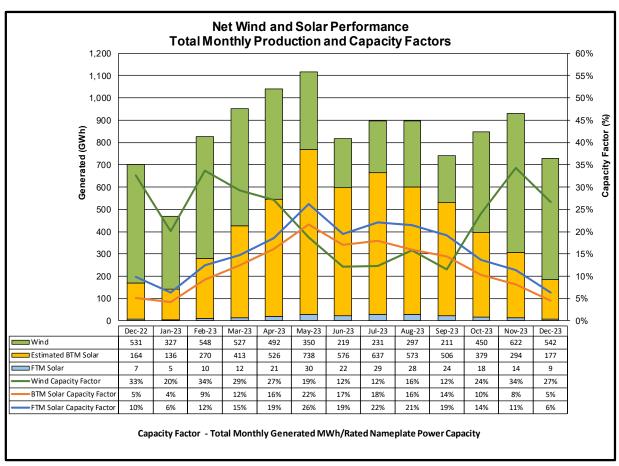


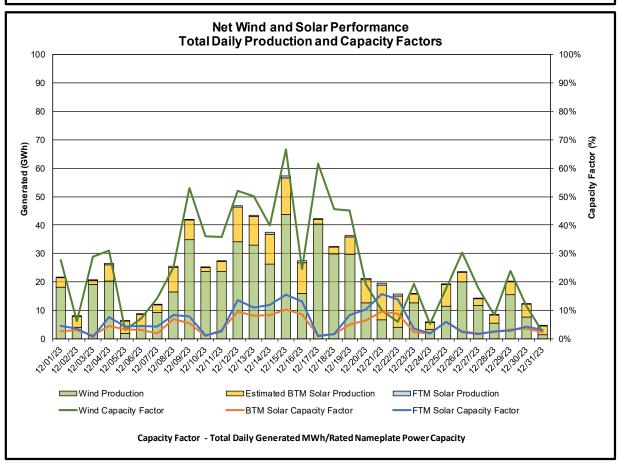




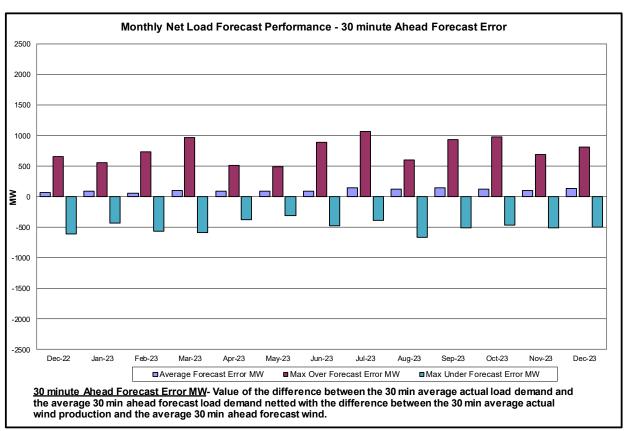


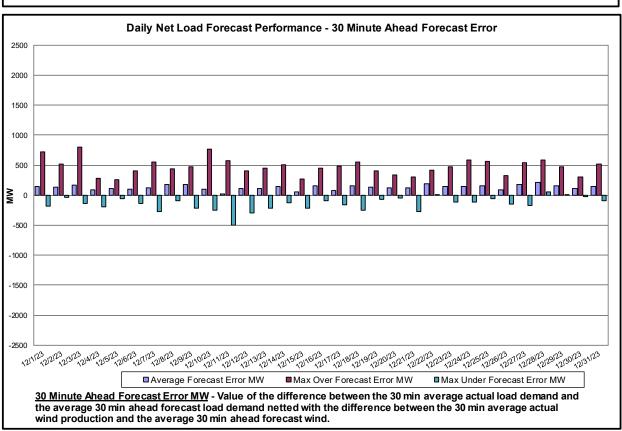




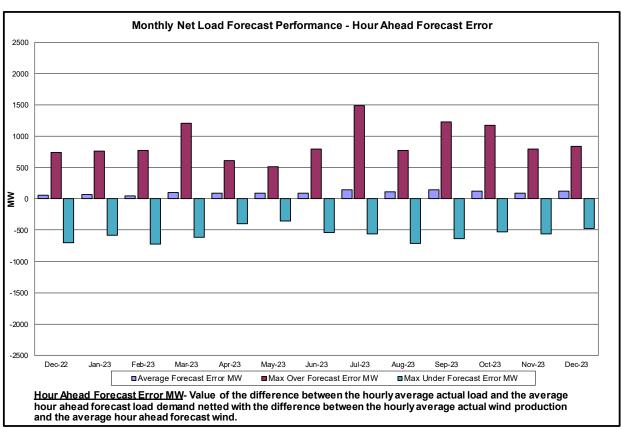


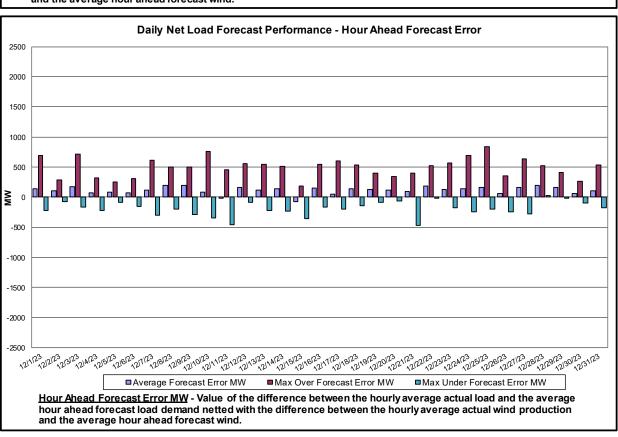




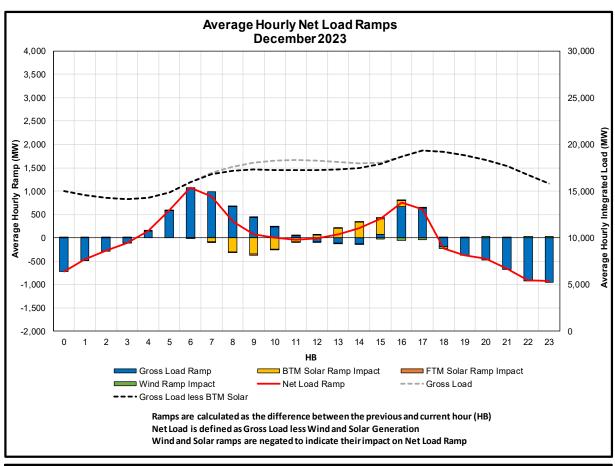


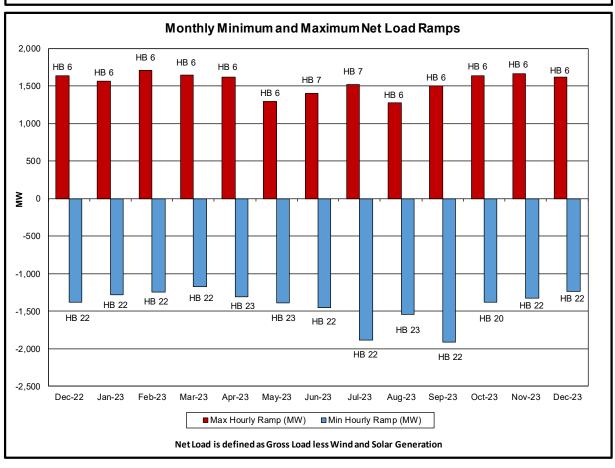




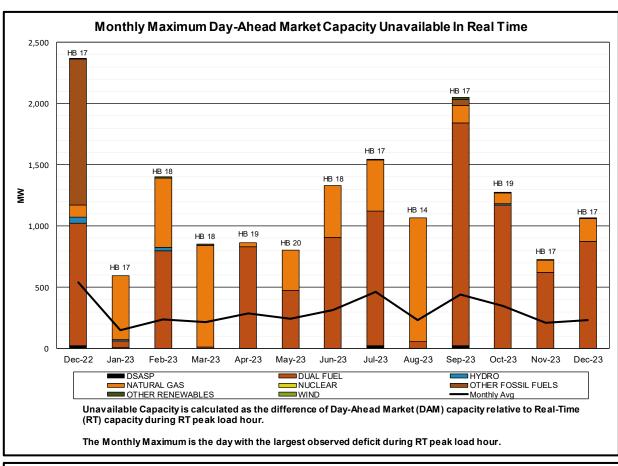


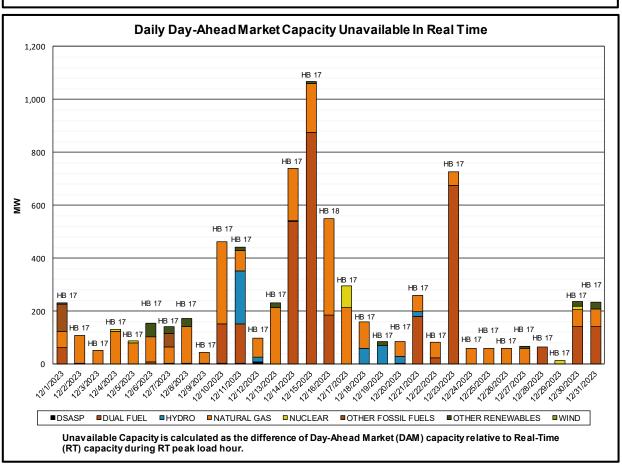




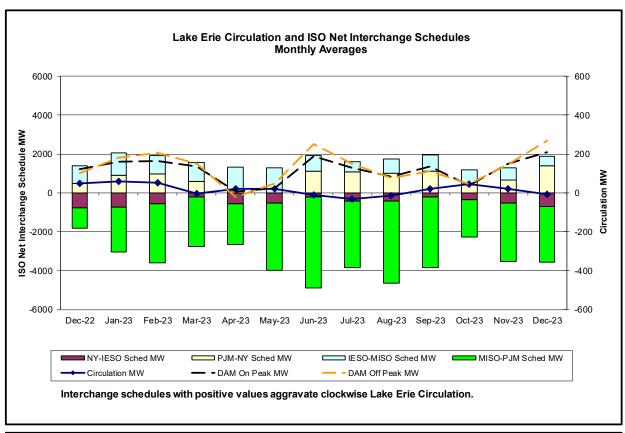


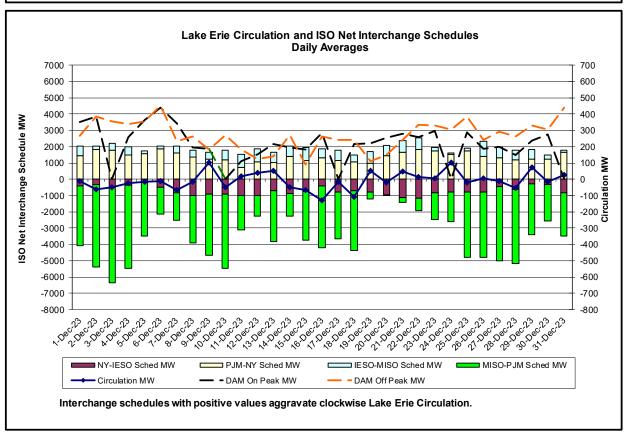






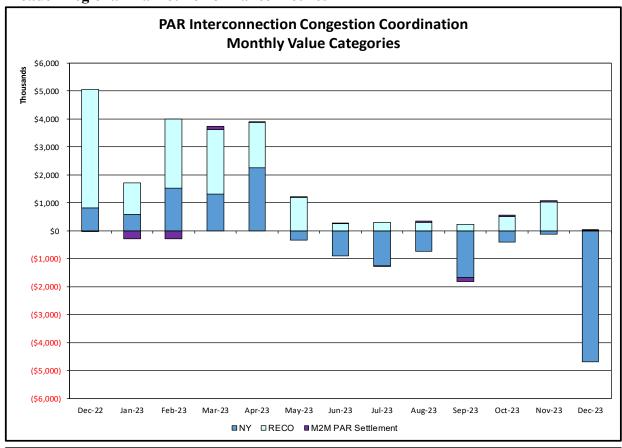


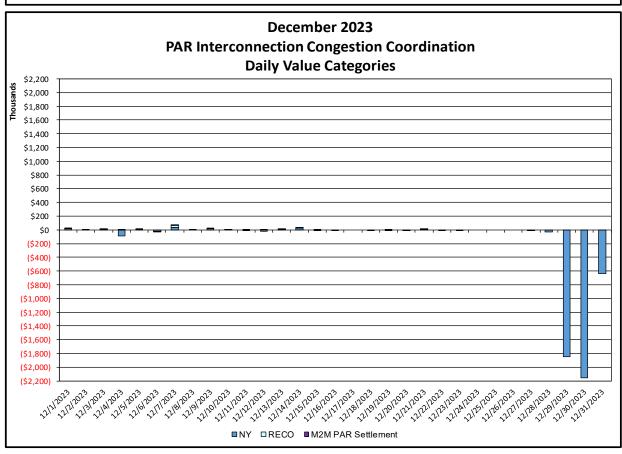


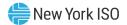




Broader Regional Market Performance Metrics







PAR Interconnection Congestion Coordination

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

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

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

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

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

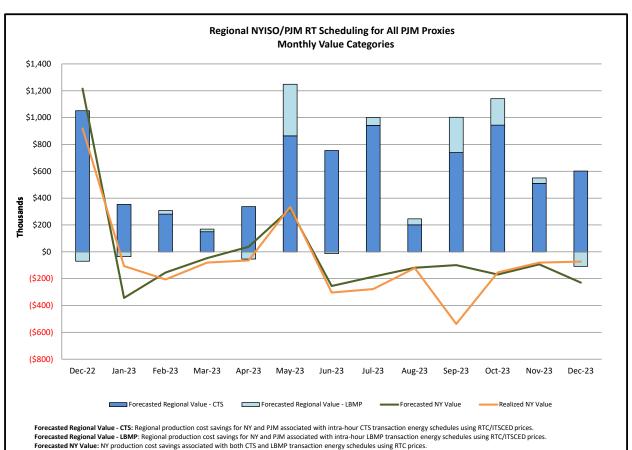
of RECO over Ramapo 5018.

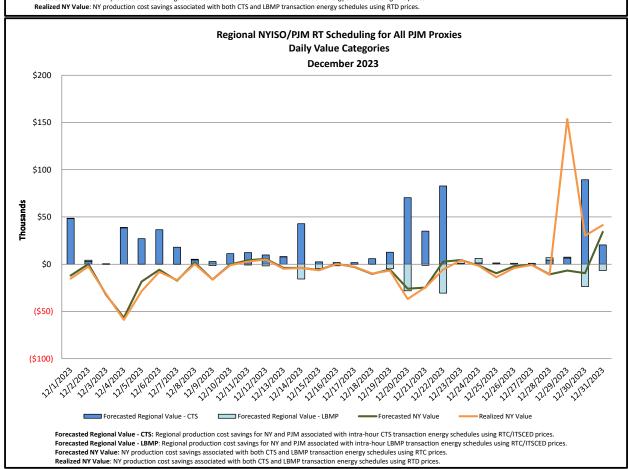
M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017

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

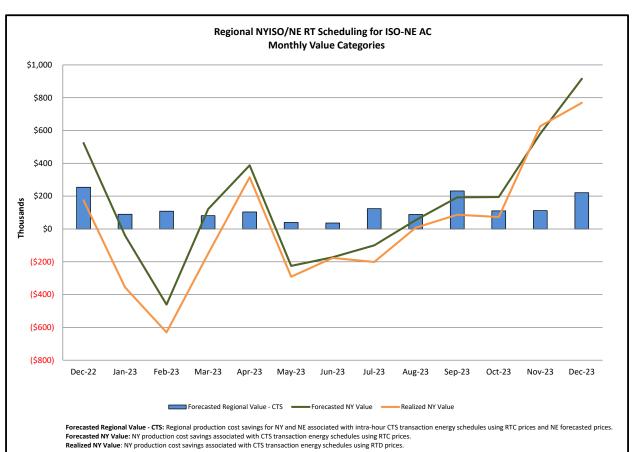
indicates settlement to NY while the negative indicates settlement to PJM.

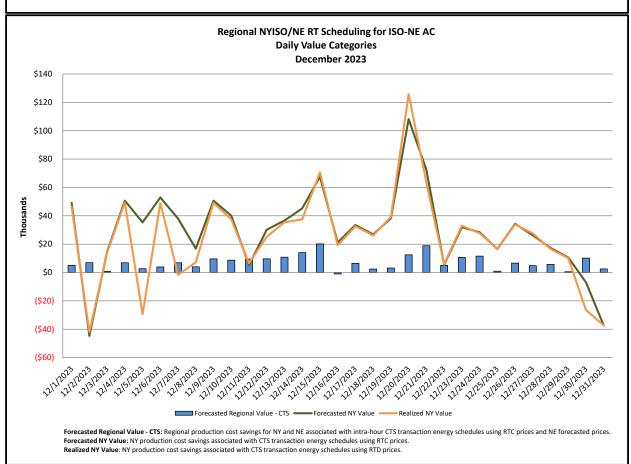






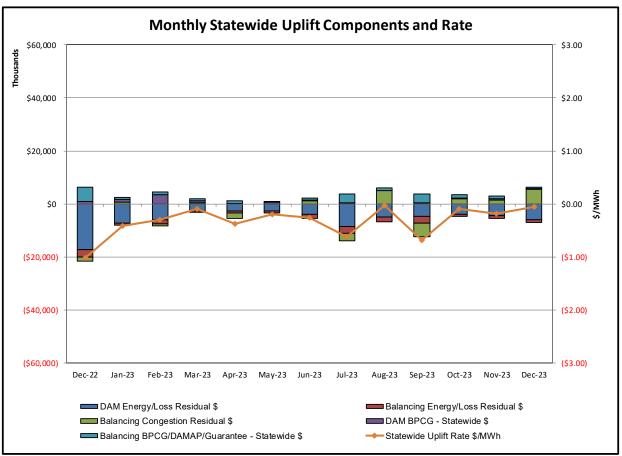




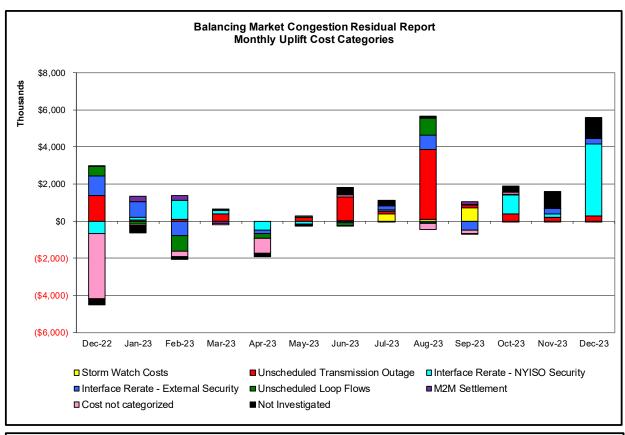


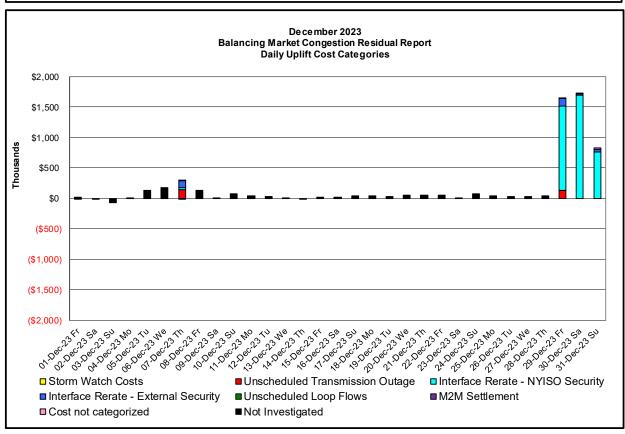


Market Performance Metrics







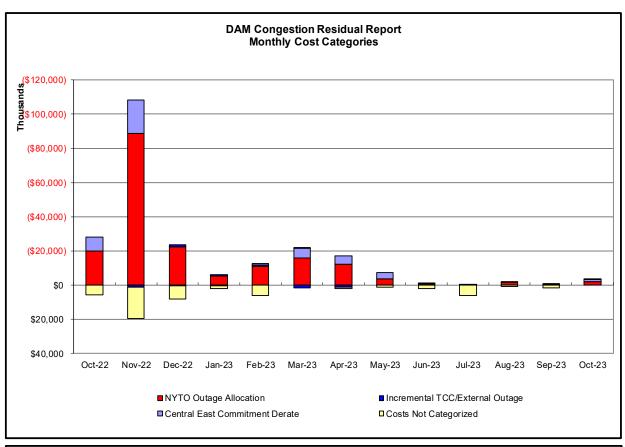


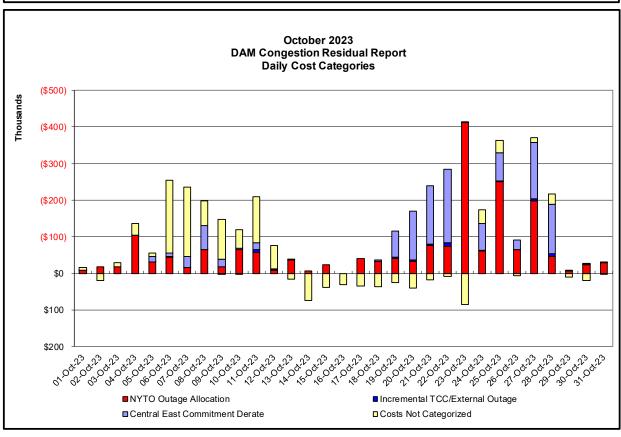


Day's investigated in December: 7,29,30,31				
Event	vent Date (yyyymmdd) Hours		Description	
	12/7/2023	0-2,5,7-9,11,12,14-23	Forced Outage East Garden City-New Bridge 138kV (#463)	
12/7/2023 4,8,9,16,18 N		4,8,9,16,18	NYCA DNI Ramp Limit	
	12/7/2023	11,12,14	Derate Buchan_S-Ladentown 345kV (#Y88) I/o Roseton-Rocktavern 345kV (#311)	
	12/7/2023	5	NE_AC ACTIVE DNI Ramp Limit	
	12/7/2023	0-5	NE_AC-NY Scheduling Limit	
	12/7/2023	8,14,16,20,22	IESO_AC ACTIVE DNI Ramp Limit	
	12/29/2023	17,18	Forced Outage Northport-Pilgrim 138kV (#679)	
	12/29/2023	5	NYCA DNI Ramp Limit	
	12/29/2023	2-5,9,16-18	Derate Goethals-Gowanaus 345kV (#26) I/o SCB:GOETH(3):25&22&R25	
	12/29/2023	5,16	IESO_AC ACTIVE DNI Ramp Limit	
	12/29/2023	9	PJM_ACTIVE DNI Ramp Limit	
	12/30/2023	10-16,21,22	Derate Goethals-Gowanaus 345kV (#26) I/o SCB:GOETH(3):25&22&R25	
	12/30/2023	12,22	NYCA DNI Ramp Limit	
	12/30/2023	21,22	IESO_AC ACTIVE DNI Ramp Limit	
	12/30/2023	21	PJM_ACTIVE DNI Ramp Limit	
	12/31/2023	1,2,14-16,18,20,22	Derate Goethals-Gowanaus 345kV (#26) I/o SCB:GOETH(3):25&22&R25	
	12/31/2023	14,15,20,22	IESO_AC ACTIVE DNI Ramp Limit	

<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						









Day-Ahead Market Congestion Residual Categories					
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	Events Types Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples DAM scheduled outage for equipment modeled inservice for the TCC Auction.		
Incremental TCC/External Outage Impacts	All TO by Monthly Allocation Factor	Allocation associated with transmission equipment status change caused by change in status of external equipment or change in status of equipment associated with Incremental TCC.	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.			



