# Operations Performance Metrics Monthly Report









# August 2023 Report

# Operations & Reliability Department New York Independent System Operator



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## **August 2023 Operations Performance Highlights**

N	Monthly Peak Load	Monthly Minimum Load	Summer 2023 Peak	All-time Summer Peak
(	08/21/2023 HB 17	08/20/2023 HB 04	07/28/2023 HB 17	07/19/2013 HB 16
	24,917 MW	13,510 MW	28,735 MW	33,956 MW

- 14.7 hours of Thunderstorm Alerts were declared
- 0.0 hours of NERC TLR level 3 curtailment

Installed Wind, Solar and Energy Storage Resource Nameplate Values:

Land-Based Wind	Land-Based Wind Behind-the-Meter		Energy Storage
	Solar	Solar	Resource (ESR)
2,521 MW	4,826 MW	174 MW	43 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	(\$0.40)	\$11.62	
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.12)	(\$0.83)	
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.00	(\$1.48)	
Total NY Savings	(\$0.52)	\$9.32	
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.25	\$4.31	
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.09	\$0.67	
Total Regional Savings	\$0.33	\$4.98	

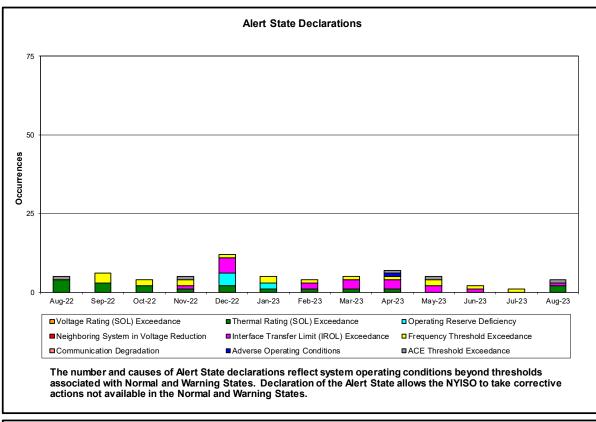
- Statewide uplift cost monthly average was (\$0.03)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

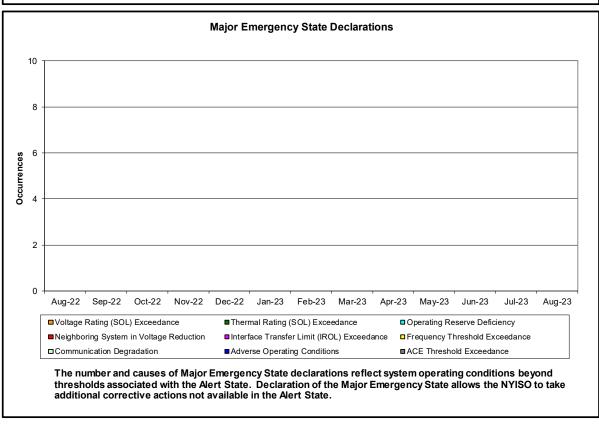
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
September 2023 Spot Price	\$5.82	\$5.82	\$19.46	\$5.82
August 2023 Spot Price	\$6.01	\$6.01	\$19.46	\$6.01
Delta	(\$0.19)	(\$0.19)	\$0.00	(\$0.19)

• Price change was driven by an increase in Generation UCAP.

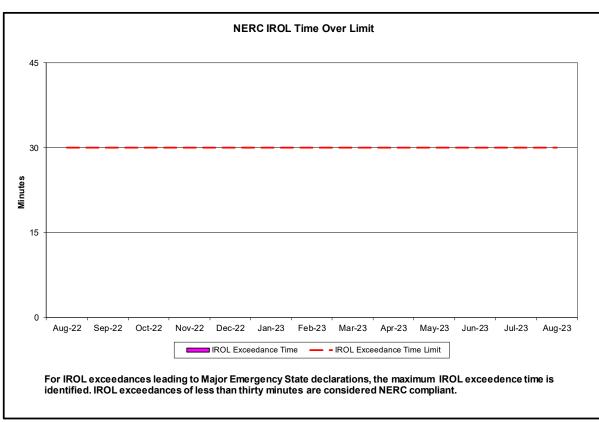


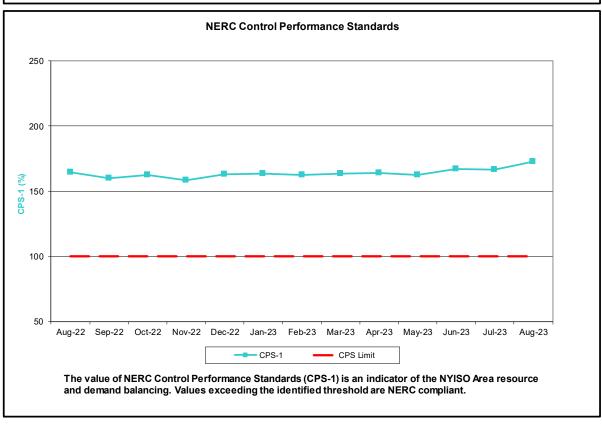
### **Reliability Performance Metrics**



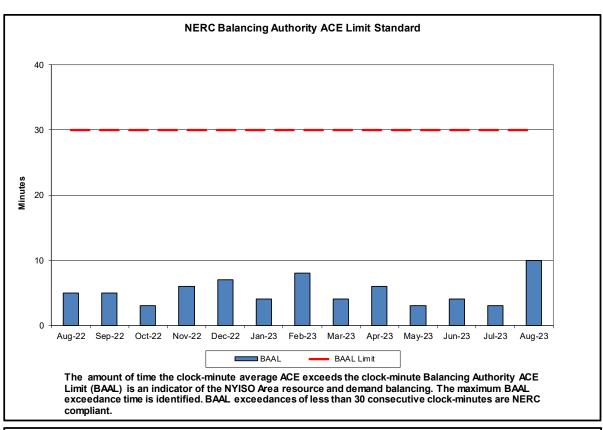


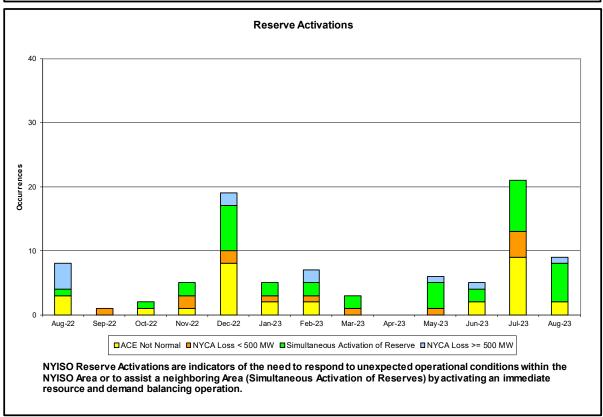




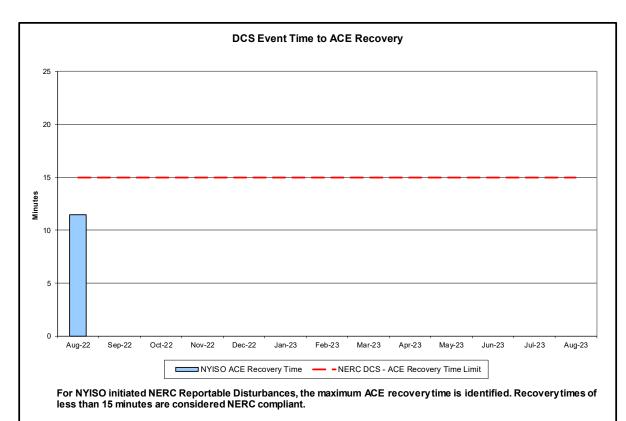


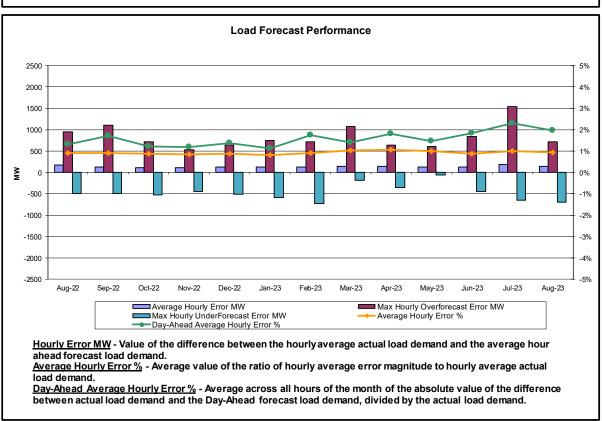




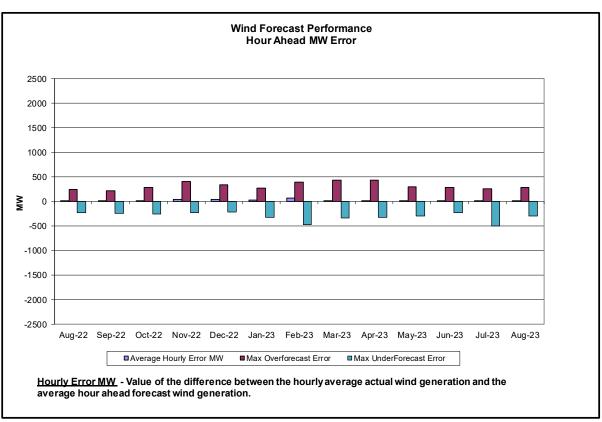


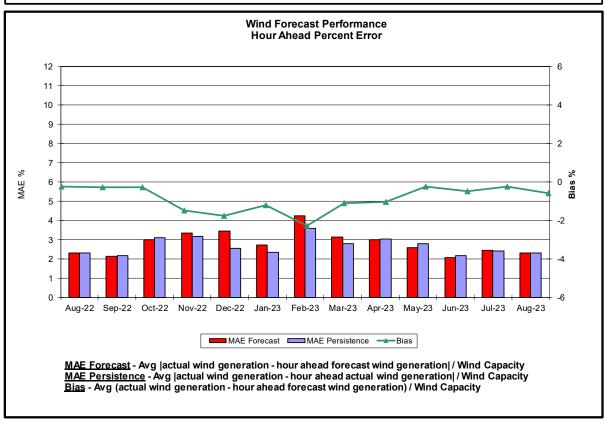




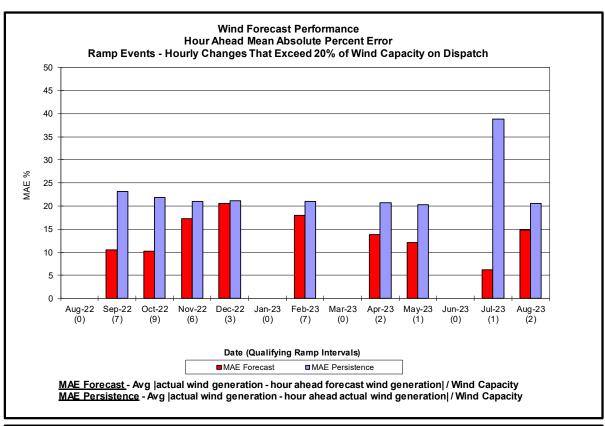


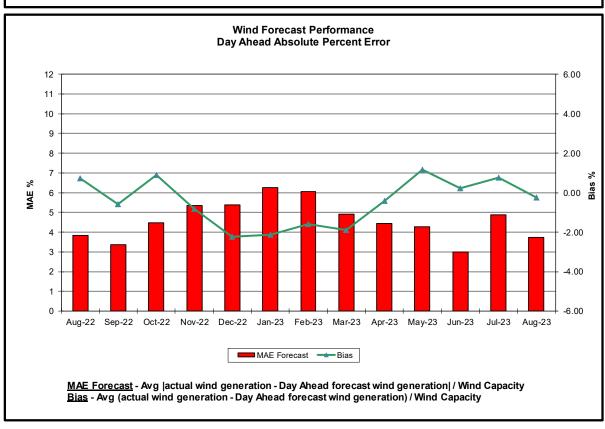




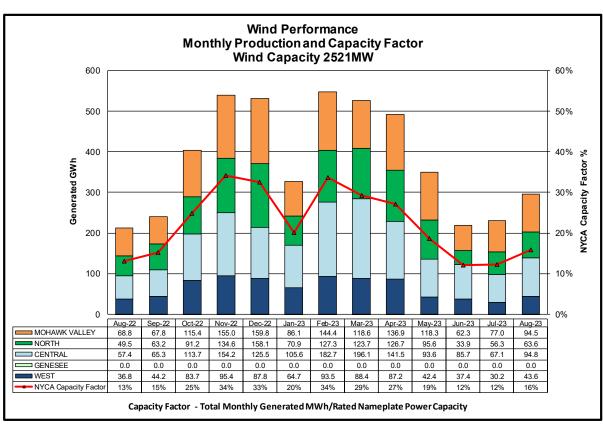


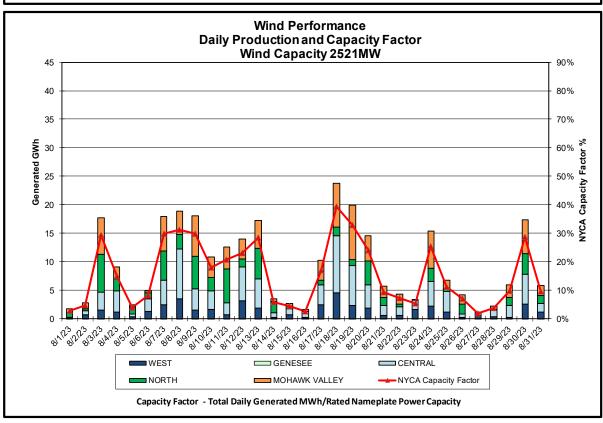




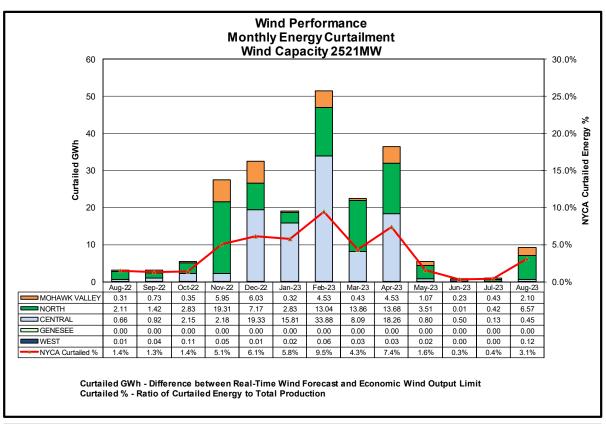


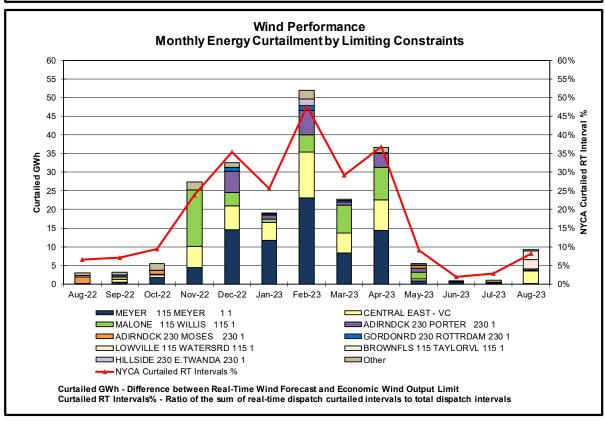




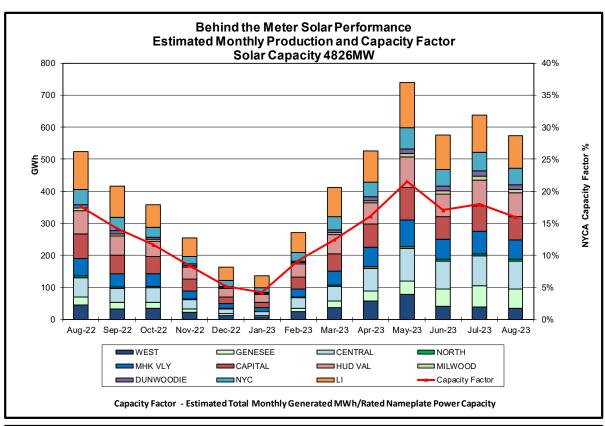


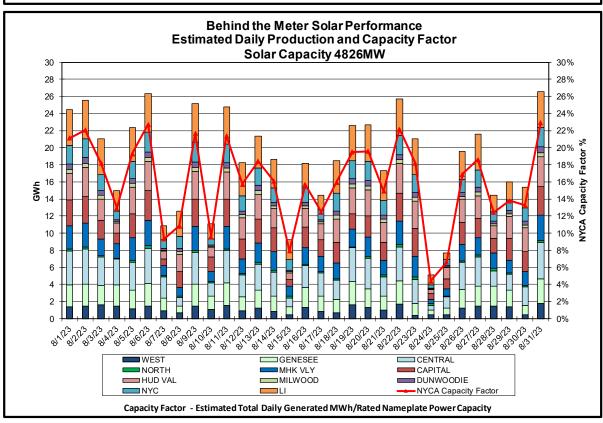




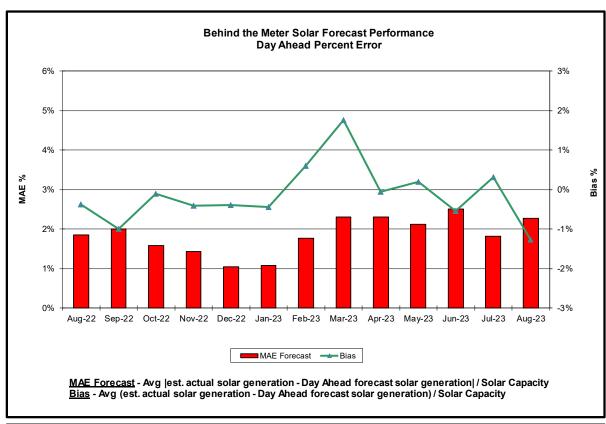


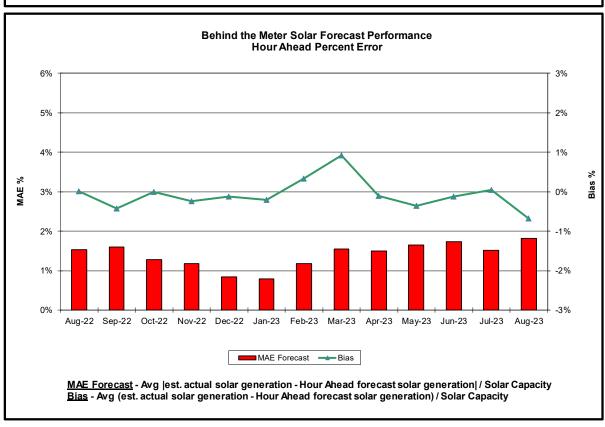




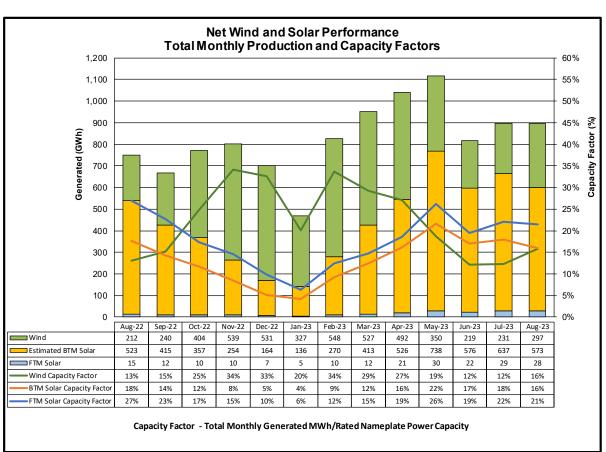


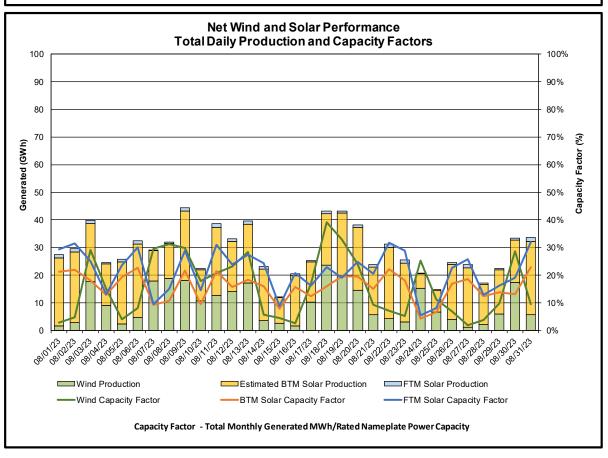




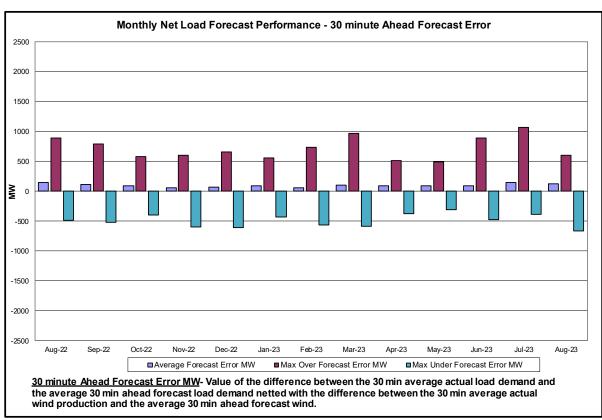


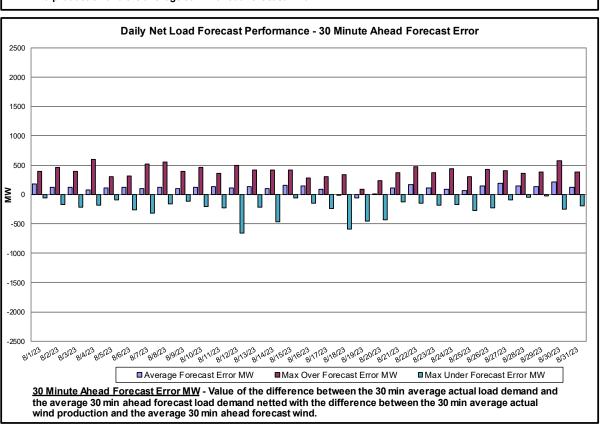




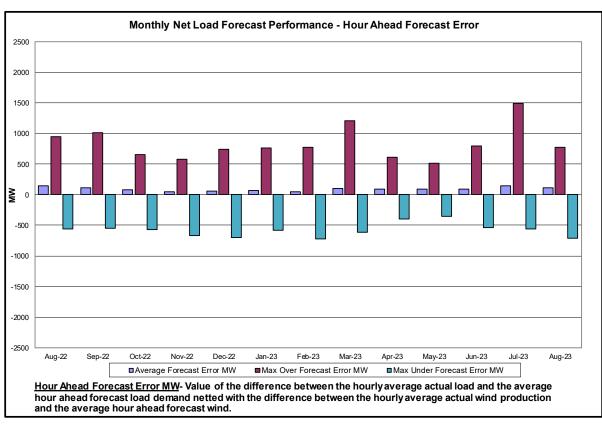


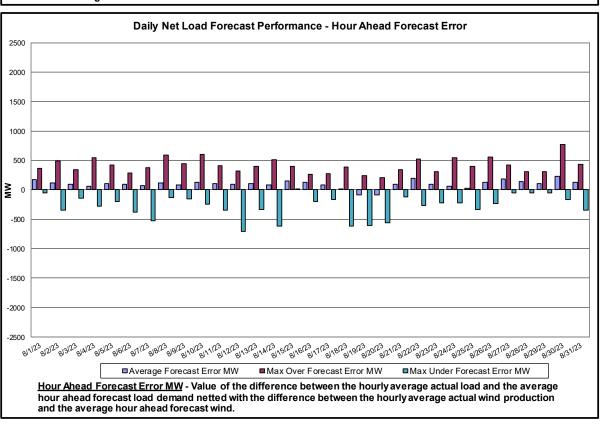




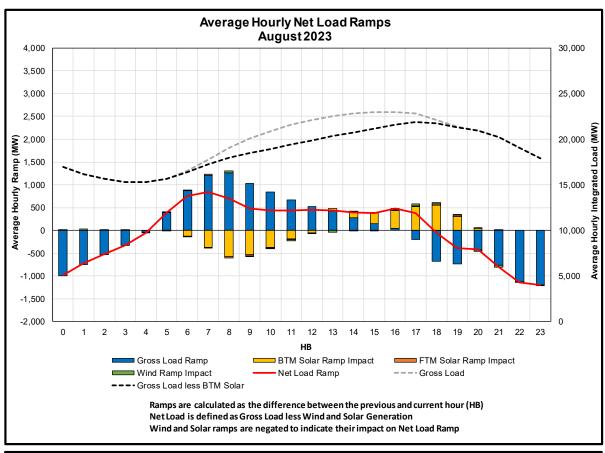


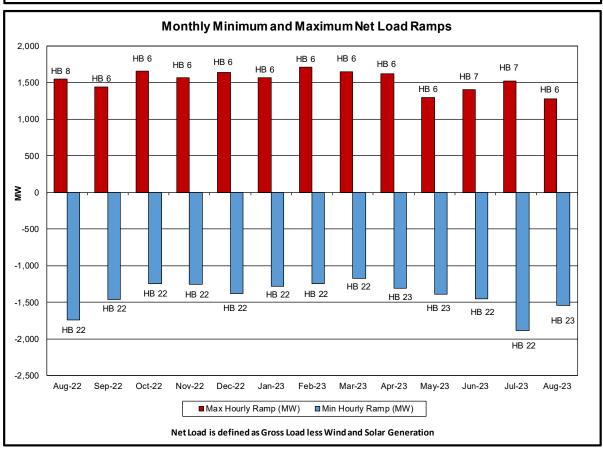




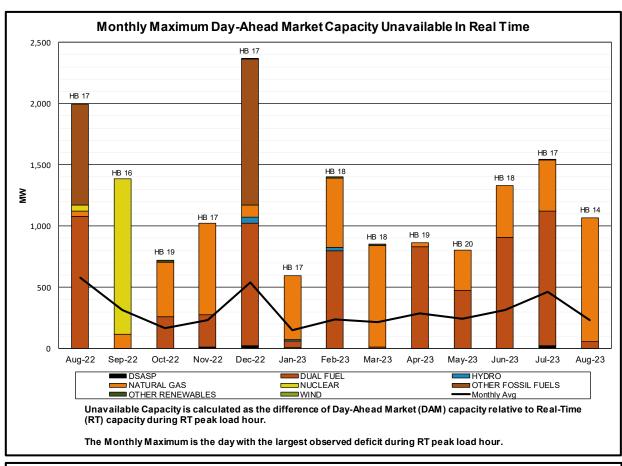


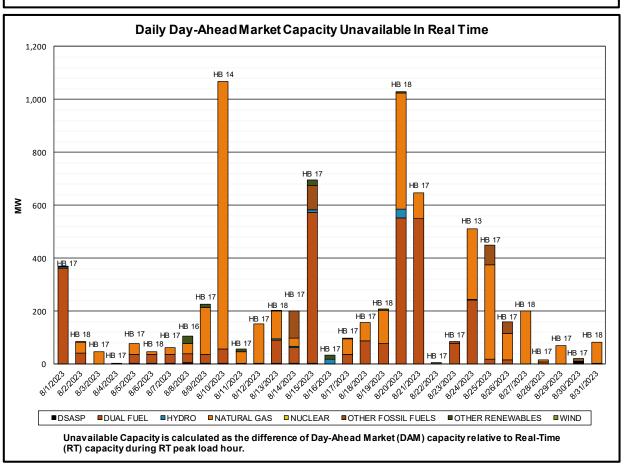




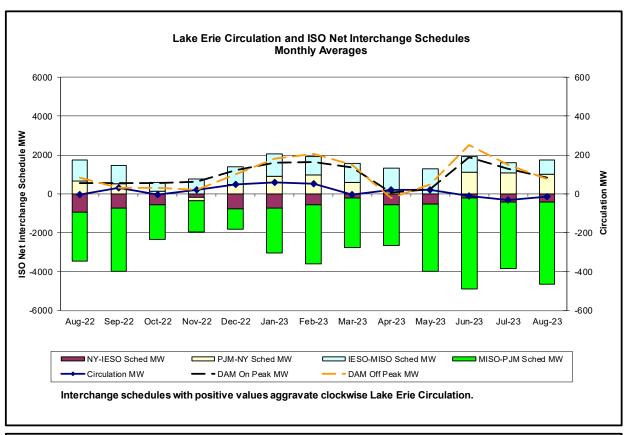


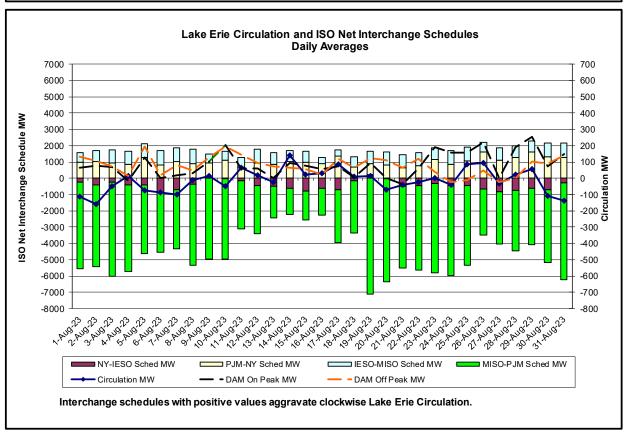






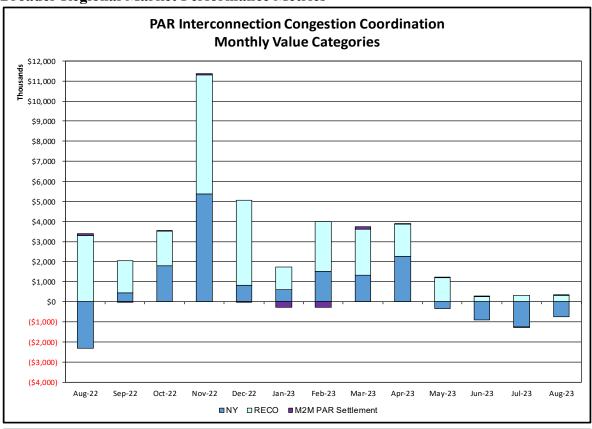


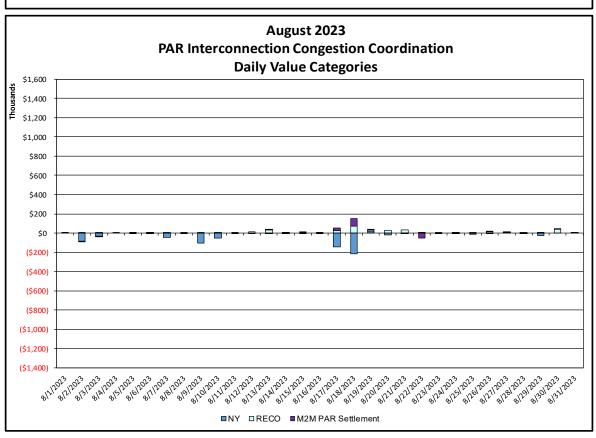






### **Broader Regional Market Performance Metrics**

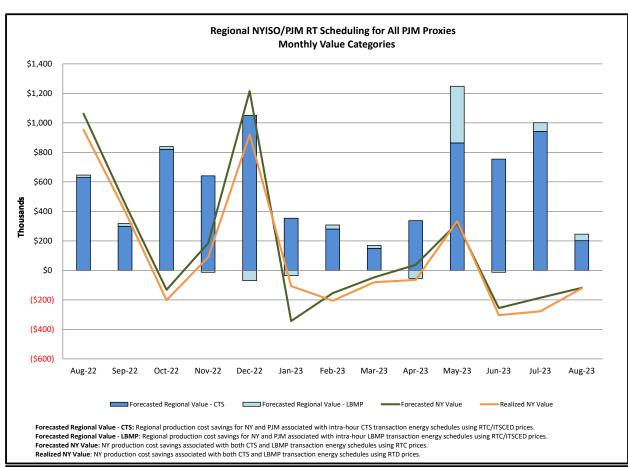


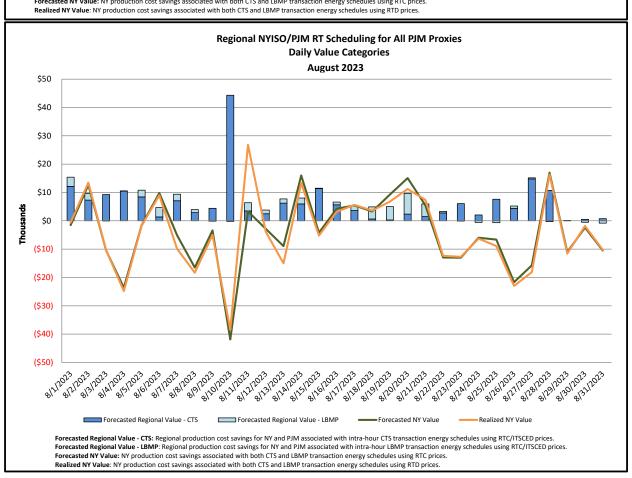




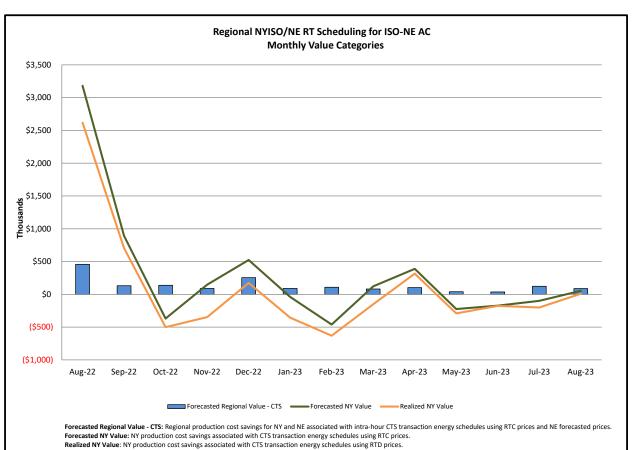
# PAR Interconnection Congestion Coordination Category NY Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY RECO Represents the value of PJM's obligation to deliver 80% of service 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.

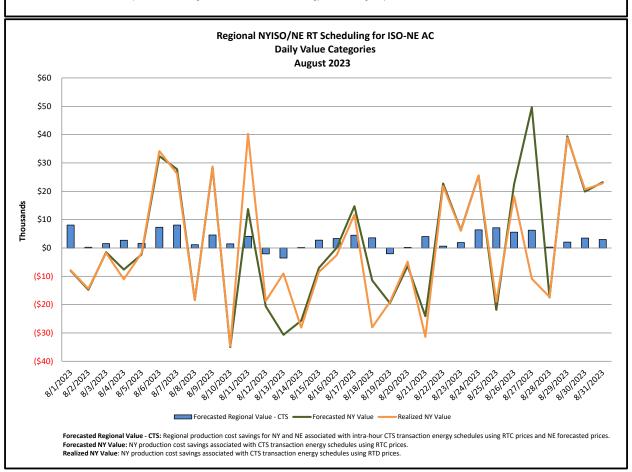






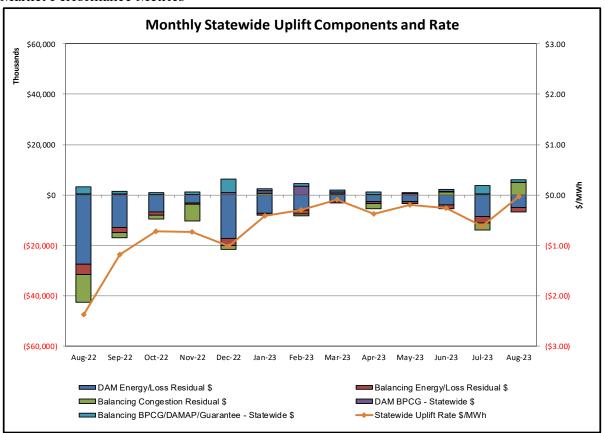




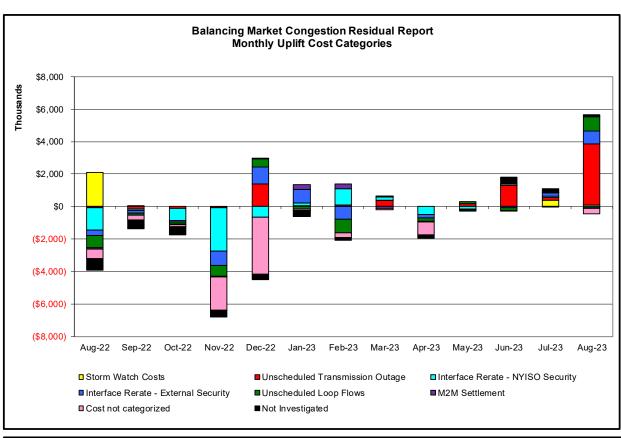


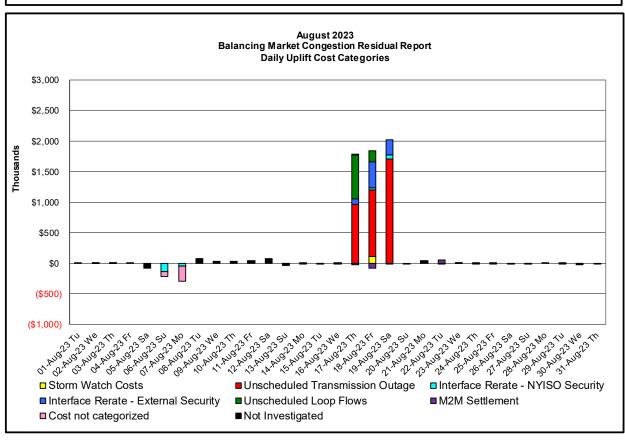


### Market Performance Metrics







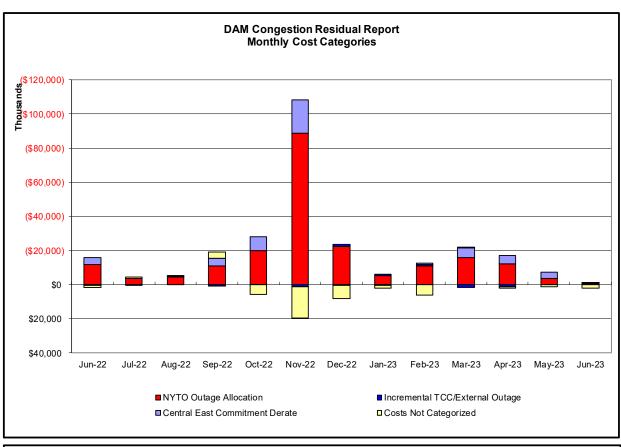


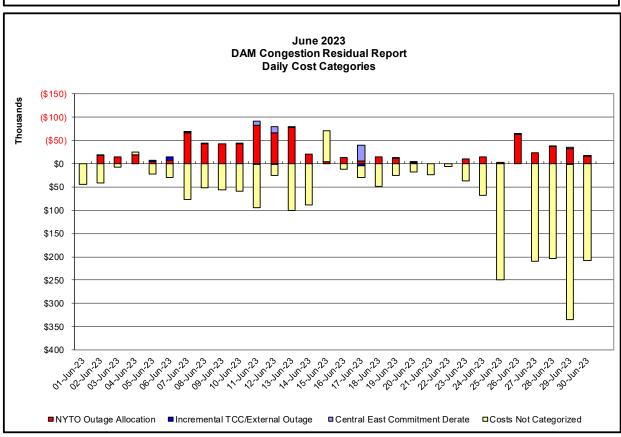


Event	nvestigated in August: 6	Hours	Description
Event	Date (yyyymmdd)		
			NYCA DNI Ramp Limit
	8/6/2023		Uprate Central East
	8/6/2023	-,	Uprate Locust Grove-Newbridge 138kV (#558)
	8/6/2023		Uprate Scriba-Volney 345kV (#20) I/o Scriba-Volney 345kV (#21)
	8/6/2023	14	IESO_AC ACTIVE DNI Ramp Limit
	8/7/2023	22	Uprate East 179th St-Hellgate 138kV (#15055)
	8/7/2023	17-19	Uprate Scriba-Volney 345kV (#20) I/o Scriba-Volney 345kV (#21)
	8/7/2023	18	IESO_AC - NY Scheduling Limit
	8/17/2023	16-23	Forced outage Chateauguay-Massena 765kV (#7040)
	8/17/2023	16-23	Forced outage Massena-Marcy 765kV (#MSU1)
	8/17/2023	15,23	NE_AC ACTIVE DNI Ramp Limit
	8/17/2023	15-19	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	8/18/2023	6,7	Thunder Storm Alert, Linden-Goethals 230kV (#A2253)
	8/18/2023	0-23	Forced outage Chateauguay-Massena 765kV (#7040)
	8/18/2023	0-23	Forced outage Massena-Marcy 765kV (#MSU1)
	8/18/2023	12	NYCA DNI Ramp Limit
	8/18/2023	0,5,6,8,11-15,19-21,23	NE_AC ACTIVE DNI Ramp Limit
	8/18/2023		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	8/19/2023	0-23	Forced outage Massena-Marcy 765kV (#MSU1)
	8/19/2023		Forced outage Chateauguay-Massena 765kV (#7040)
	8/19/2023		Forced outage Dunwoodie-Shore Road 345kV (#Y50)
	8/19/2023		NYCA DNI Ramp Limit
	8/19/2023		NE AC ACTIVE DNI Ramp Limit
	8/19/2023		HQ CEDARS-NY Scheduling Limit

Catamani	Coat Assignment	Evento Tymes	Event Evennles		
<u>Category</u> Storm Watch	Cost Assignment Zone J	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.			



