Operations Performance Metrics Monthly Report









September 2022 Report

Operations & Reliability Department New York Independent System Operator



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September 2022 Operations Performance Highlights

- September 2022 peak load of 23,264 MW occurred on 9/13/2022 HB 17
- Summer 2022 capability period peak load to date of 30,505MW occurred on 7/20/2022 HB 17
- All-time summer capability period peak load of 33,956 MW occurred on 07/19/2013 HB 16
- 6.0 hours of Thunderstorm Alerts were declared
- 8.4 hours of NERC TLR level 3 curtailment
- The Gordon Rd 345kV substation associated with Public Policy Segment A was placed inservice which included new circuits Edic-Gordon Rd 345kV (#14), Gordon Rd-New Scotland 345kV (#55) and Gordon Rd-Rotterdam 345kV (#31). Transition to the new Total East Stability, Central East Stability and Central East -VC transfer limits occurred on 9/12/2022.

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	\$2.00	\$25.84	
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.40	\$1.64	
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.70	\$8.96	
Total NY Savings	\$3.10	\$36.44	
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.32	\$5.18	
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.13	\$3.12	
Total Regional Savings	\$0.45	\$8.30	

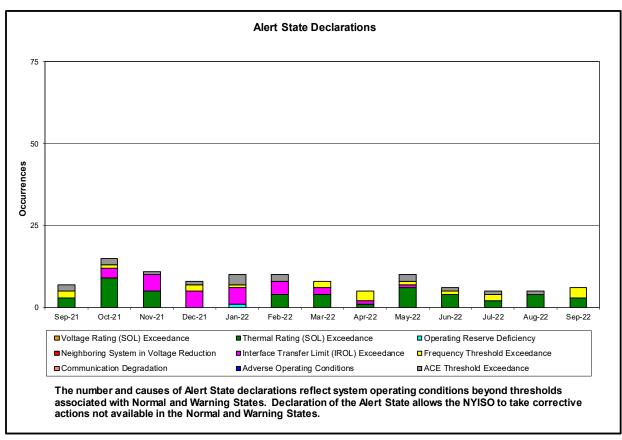
- Statewide uplift cost monthly average was (\$1.18)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

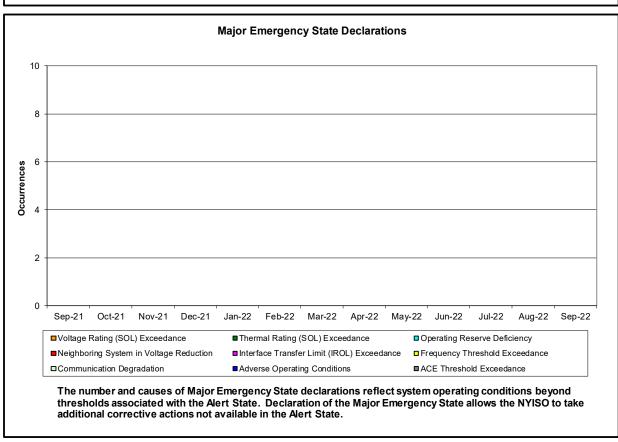
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
October 2022 Spot Price	\$2.92	\$3.18	\$3.27	\$6.48
September 2022 Spot Price	\$2.95	\$3.12	\$3.21	\$6.43
Delta	(\$0.03)	\$0.06	\$0.06	\$0.05

 Long Island experienced an increase in price due to more unoffered MWs. In NYC and Lower Hudson Valley Zones the price increased due to a decrease in SCR UCAP. The NYCA clearing price decreased due to increased imports and a decrease in unoffered MWs.

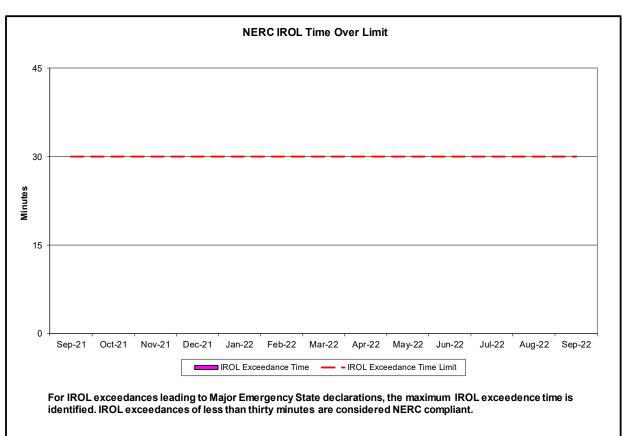


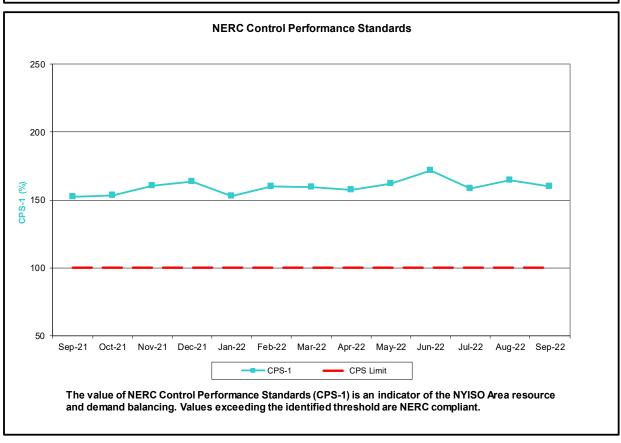
Reliability Performance Metrics



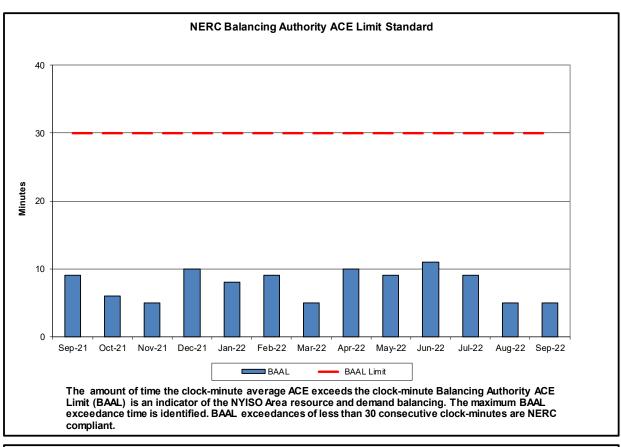


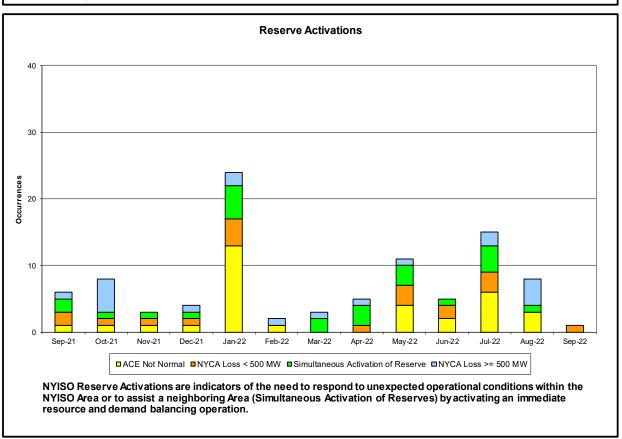




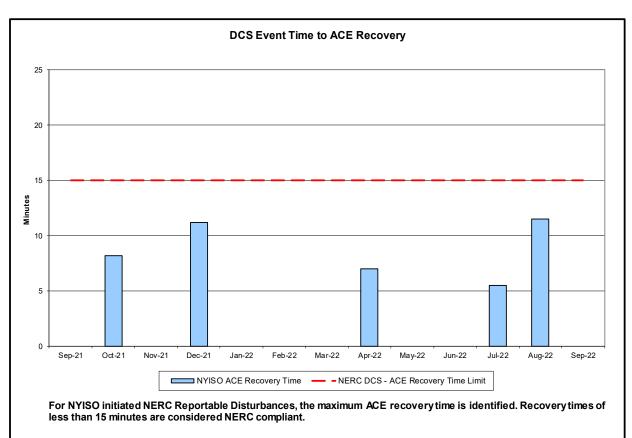


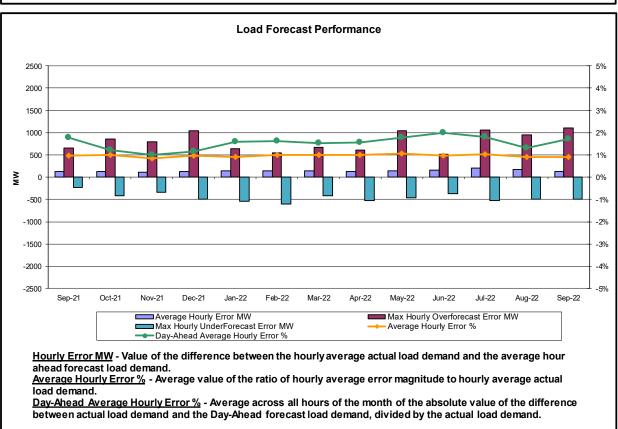




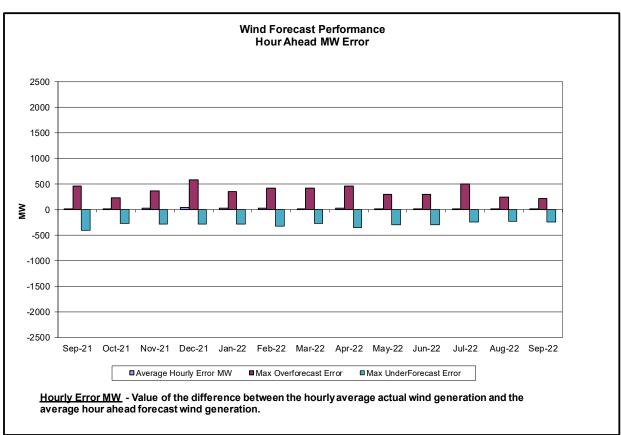


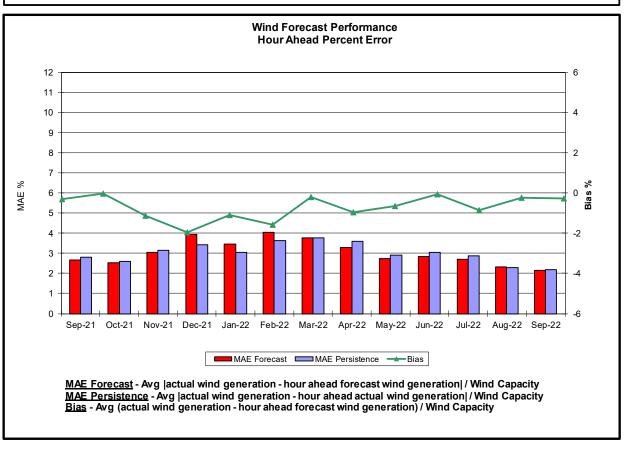




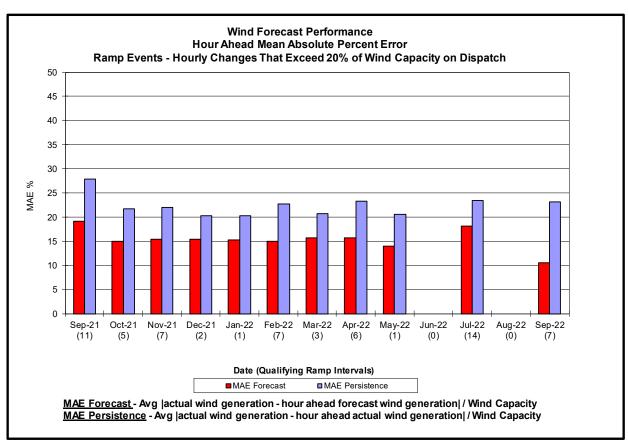


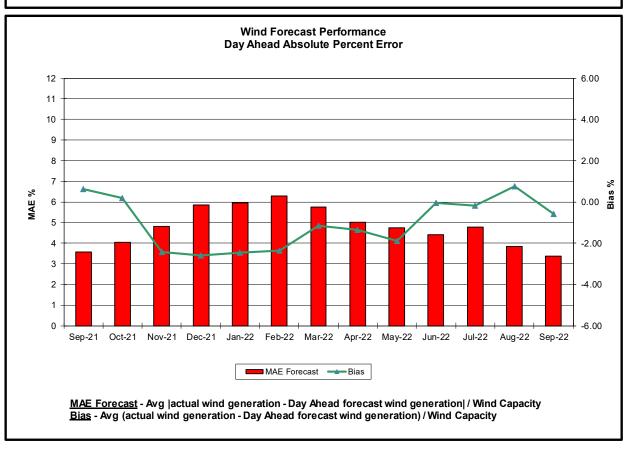




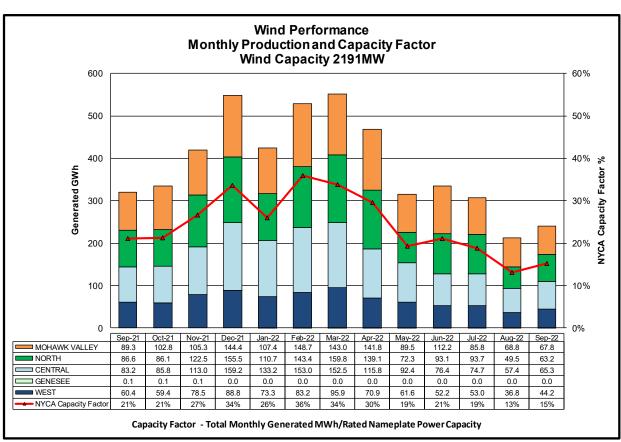


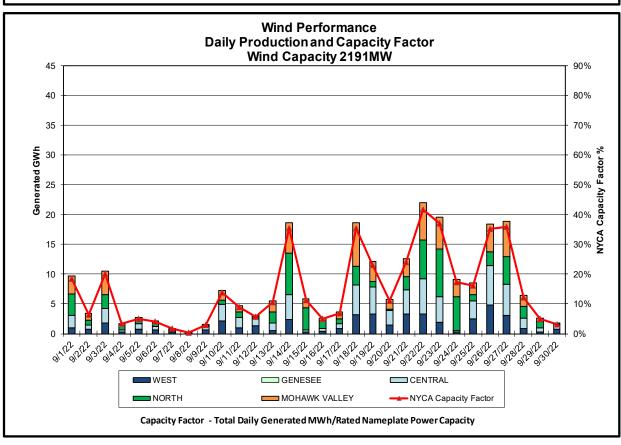




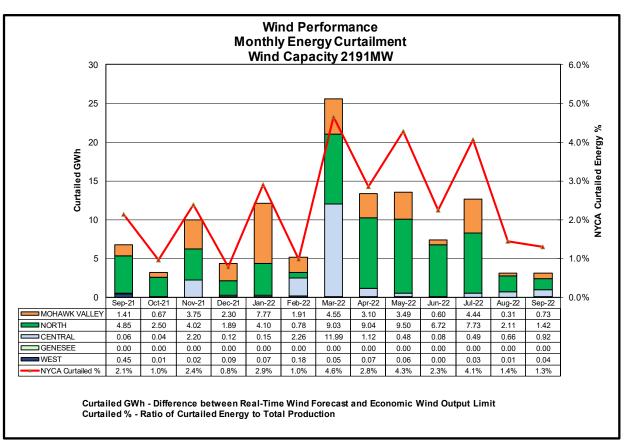


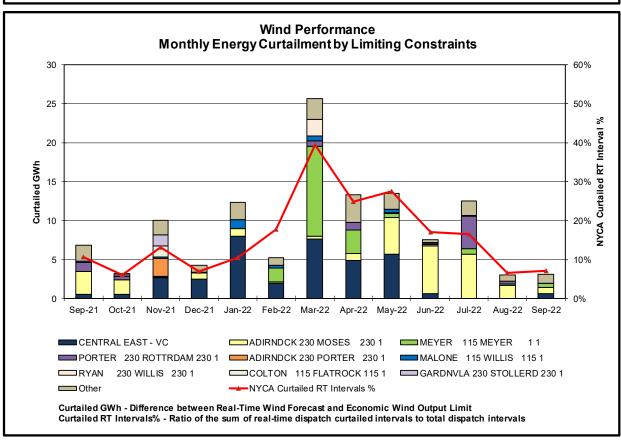




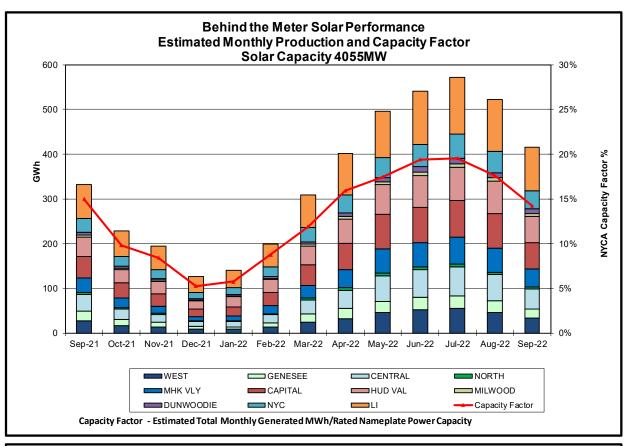


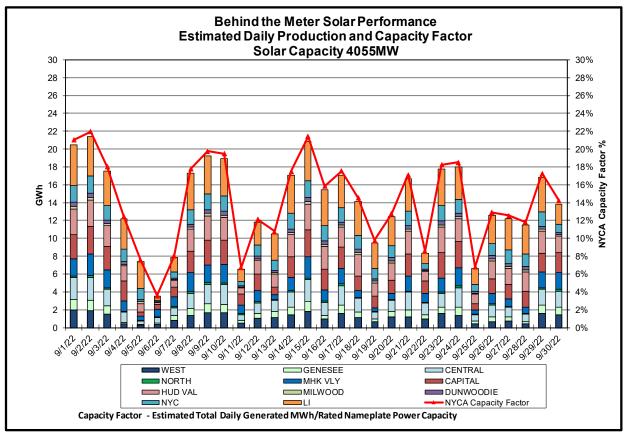




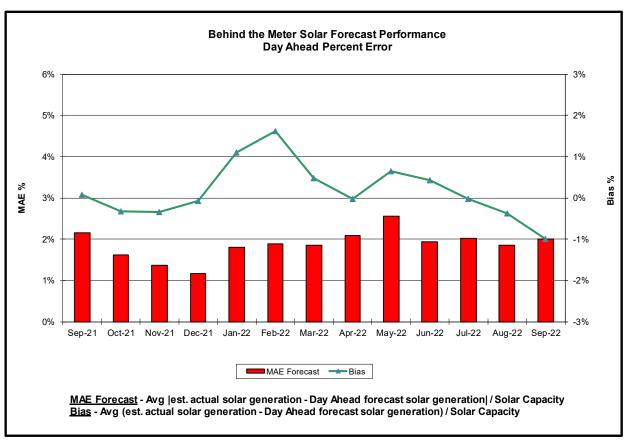


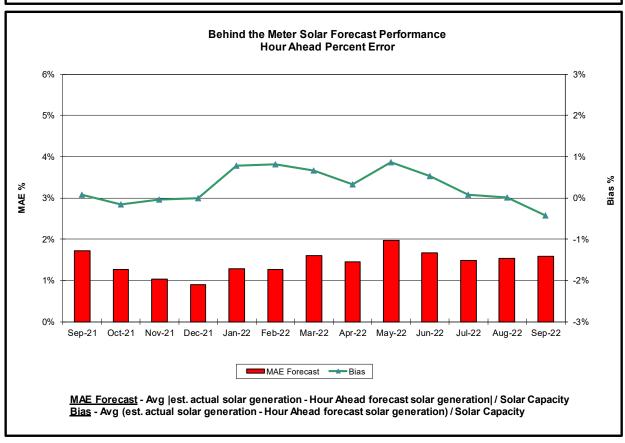




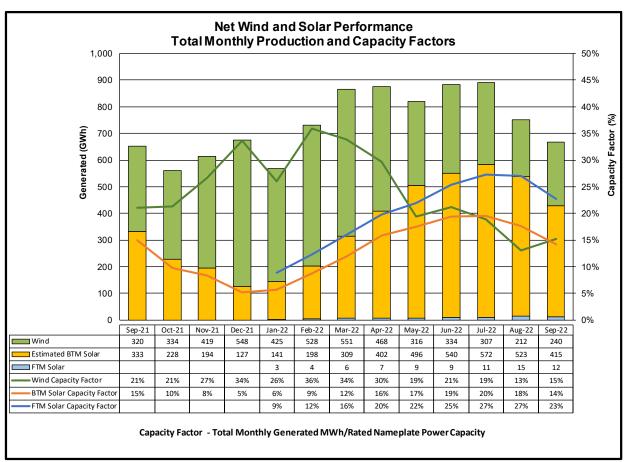


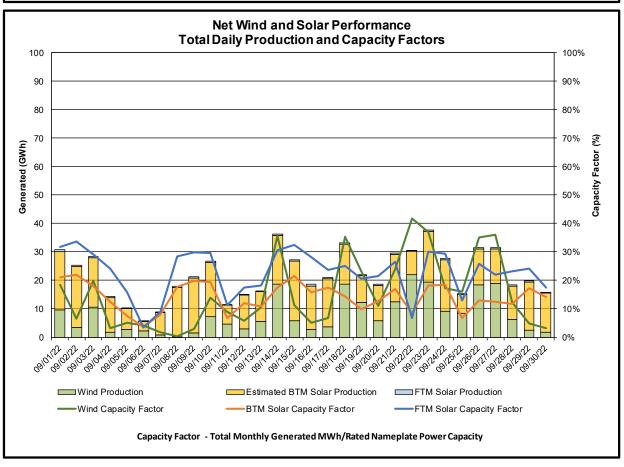




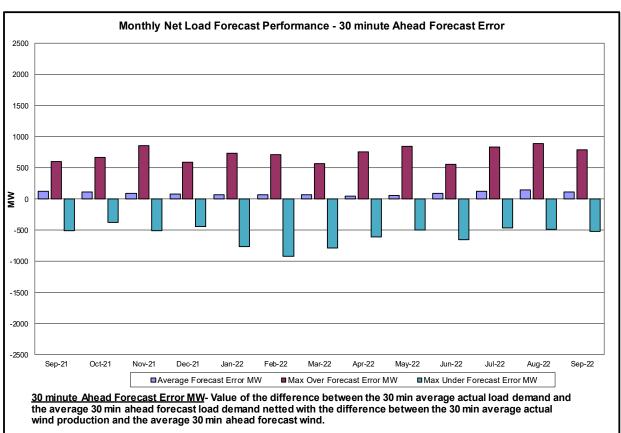


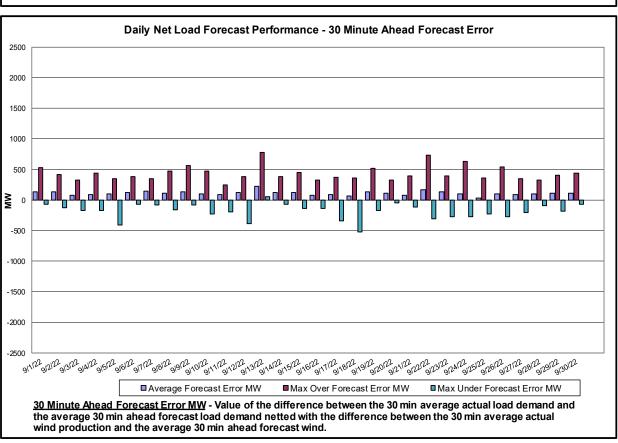




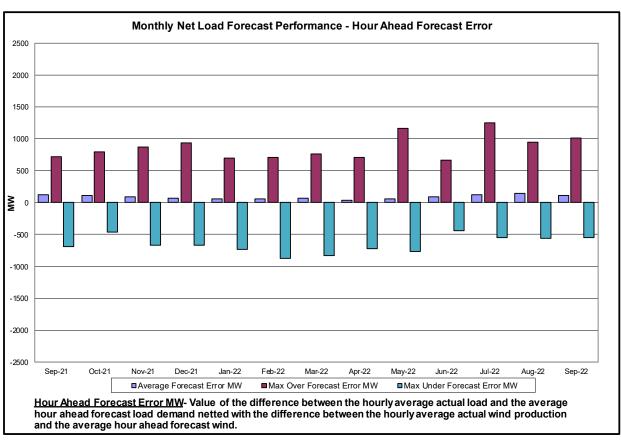


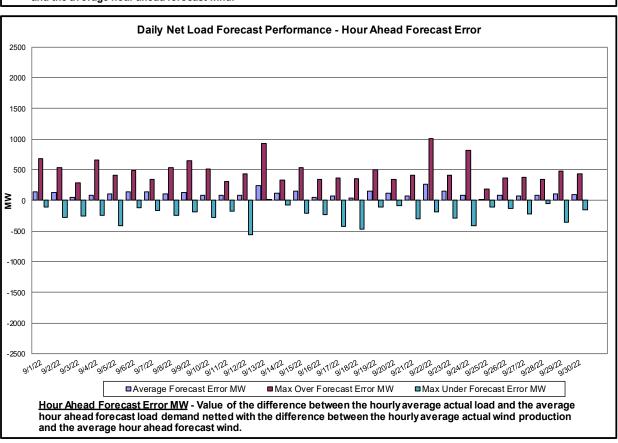




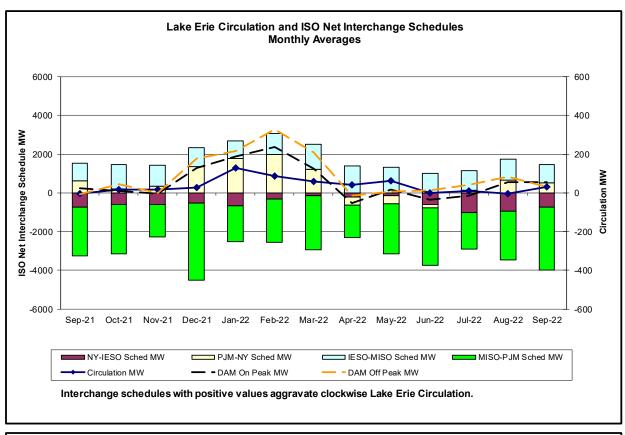


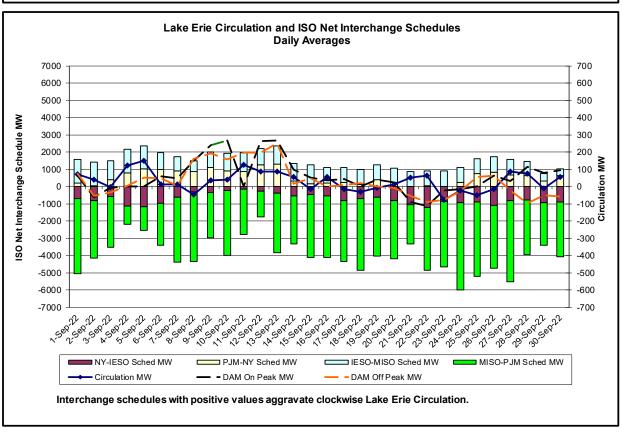






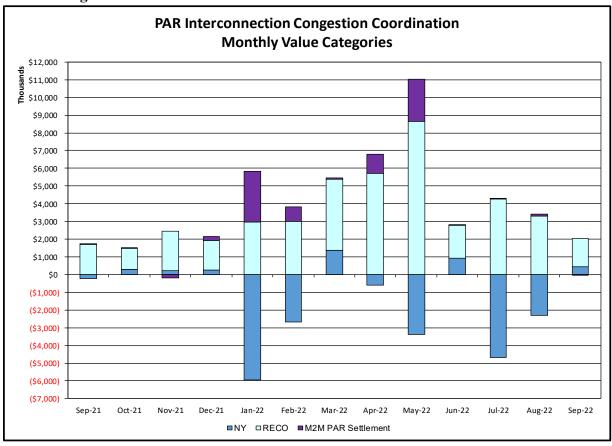


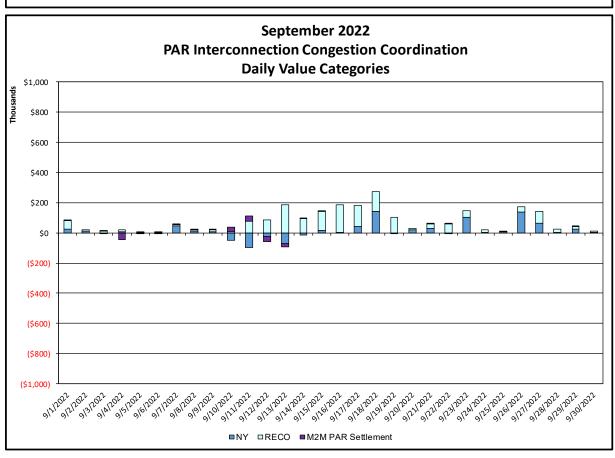






Broader Regional Market Performance Metrics







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

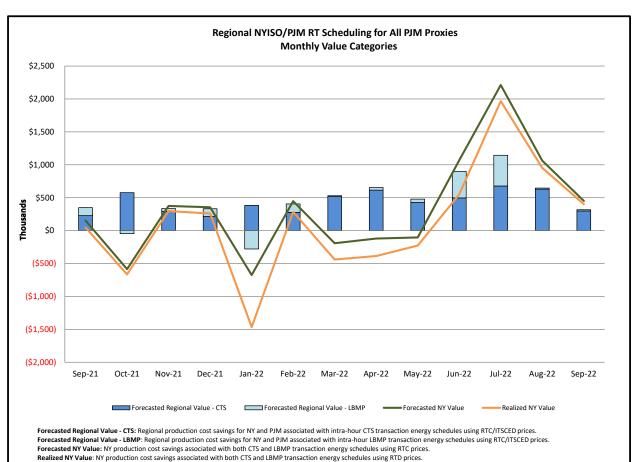
of RECO over Ramapo 5018.

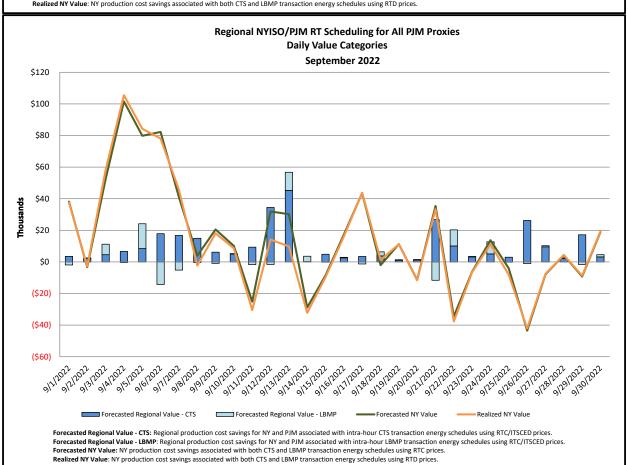
M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017

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

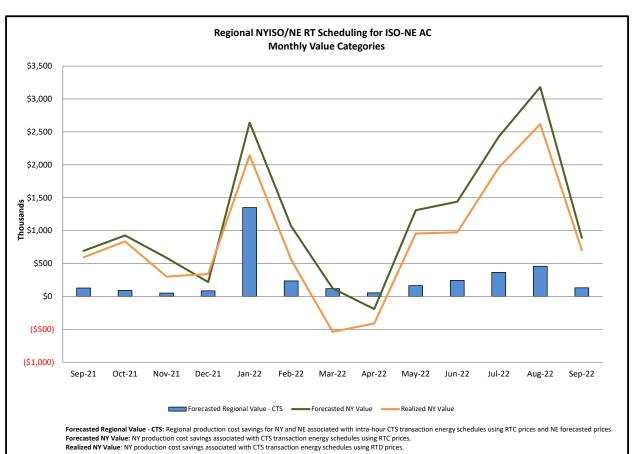
indicates settlement to NY while the negative indicates settlement to PJM.

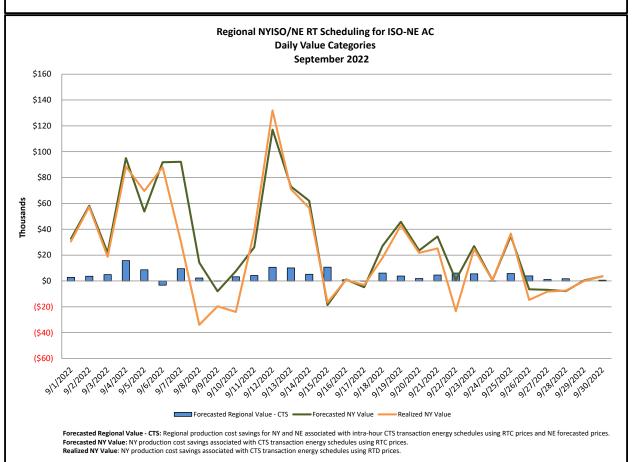






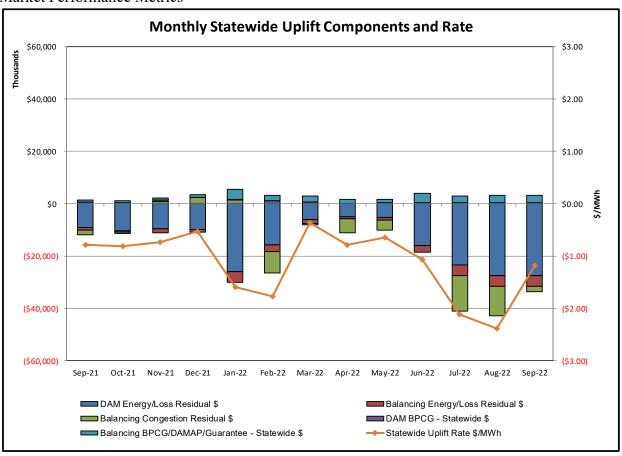




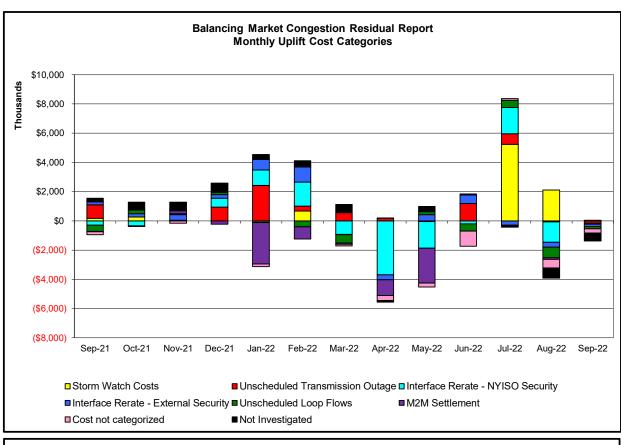


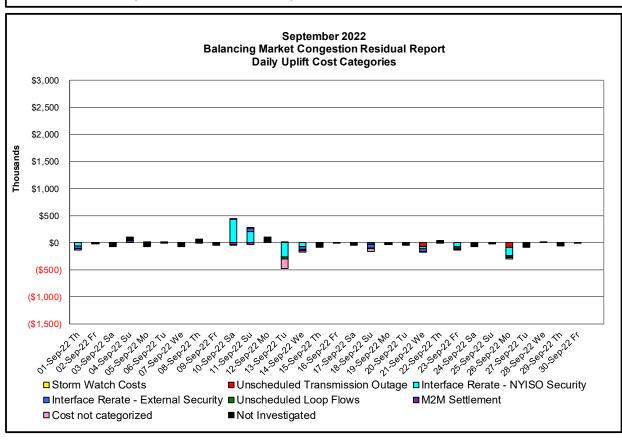


Market Performance Metrics







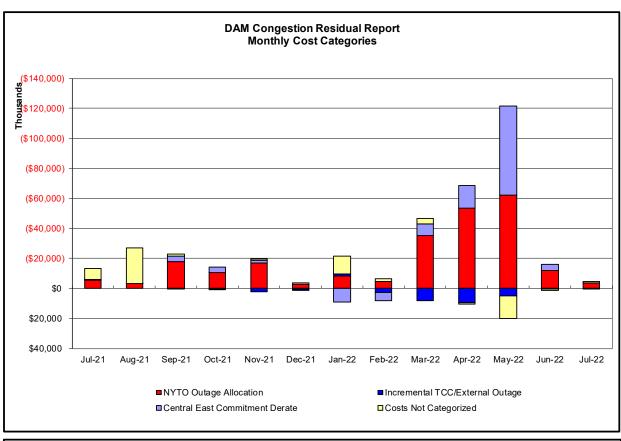


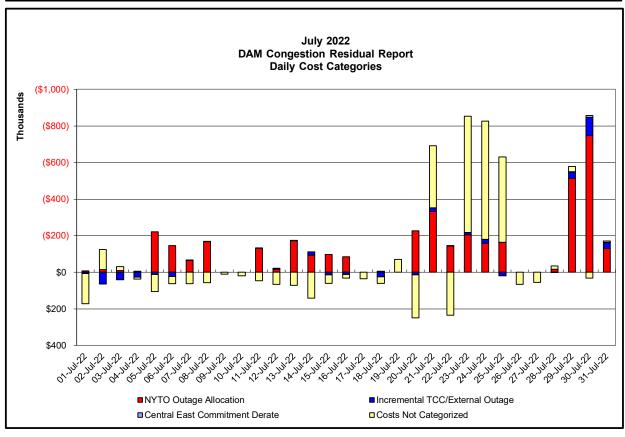


Day's in	vestigated in September: 1,10,11,13,14,18,21,23,26	
Event	Description	September Dates
	Early return-to-service of Coopers Corners-Dolson Ave 345kV (#CCDA42)	21
	Early return-to-service of Fraser-Gilboa 345kV (#GF5-35)	18
	Early return-to-service of Gowanus-Greenwood 138kV (#42231)	26
	Early return-to-service of Vernon-Greenwood 138kV (#31231)	21
	Derate Central East	10,11
	Derate Cricket Valley-Pleasant Valley (#F83) I/o Cricket Valley-Pleasant Valley (#F84)	10,11
	Derate East 13th StaFarragut 345kV (#46) I/o SCB:SPBK(RS5):M51&99941&5S1&S2	13
	Derate Gordon RdRotterdam 230kV (#31) I/o TWR:CCRT34&DART44&BK114	13
	Derate Gordon RdRotterdam 230kV (#31) I/o TWR:UCC2-41&EF24-40	18
	NYCA DNI Ramp Limit	11,13,14,21,23
	Uprate Brownfalls-Taylorville 115kV (#3) l/o Brownfalls-Taylorville 115kV (#4)	21
	Uprate Buffalo78-Huntley 115kV (#130) I/o SIN:PACKARD-WALCK_RD_129	21,26
	Uprate Central East	11,14,18,23,26
	Uprate Chester-Shoemaker 138kV (#27) I/o SCB:ROCKT(4455)44&TR3&C1&C2	13
	Uprate Chester-Shoemaker 138kV (#27) I/o TWR:RAMAPO 76 & 77 & BK1112	1
	Uprate East 179th StHellgate 138kV (#15055)	1,18,21,23,26
	Uprate Motthaven-Rainey 345kV (#Q12)	23
	Uprate Pleasant Valley-Leeds 345kV (#92) I/o Athens-Pleasant Valley 345kV (#91)	21
	HQ_CEDARS-NY Scheduling Limit	10,13
	HQ_CHAT-NY Scheduling Limit	13,14,18,21
	IESO_AC ACTIVE DNI Ramp Limit	1,13
	NE_AC Scheduling Limit	23
	NE_NNC1385-NY Scheduling Limit	18,26
	PJM_AC ACTIVE DNI Ramp Limit	11
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East	13,14,18,21,23,26
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West	18,26

Transmission Outage Mismatch Market-v		
	vide Changes in DAM to RTM transfers	Forced Line Outage,
	related to transmission outage mismatch	Unit AVR Outages Early Line Return from Outage
Interface/Facility Rerate - NYISO Security Market-v	ride Changes in DAM to RTM transfers not related to transmission outage	-
Interface Rerate - External Security Market-v	ride Changes in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
Unscheduled Loop Flows Market-v	vide Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Lake Erie g Loop Flows exceeding 125 MW
M2M Settlement Market-v	ride Settlement result inclusive of coordinated redispatch and Ramapo flowgates	









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.		



