Operations Performance Metrics Monthly Report









December 2024 Report

Operations & Reliability Department New York Independent System Operator



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December 2024 Operations Performance Highlights

Monthly Peak Load	Monthly Minimum Load	Winter 2024-2025 Peak	All-time Winter Peak
12/23/2024 HB 17	12/30/2024 HB 03	12/23/2024 HB 17	01/07/2014 HB 18
23,065 MW	13,325 MW	23,065 MW	25,738 MW

- 3.9 hours of Thunderstorm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- Revised UPNY-ConEd interface limit due to topology changes associated with Lovett 345kV station buildout were employed in EMS/BMS with the December network model deployment. The limits were presented and approved for use at the October Operating Committee meeting.

Installed Wind, Solar and Energy Storage Resource Nameplate Values:

Land-Based	Offshore	Behind-the-	Front-of-the-	Energy Storage
Wind	Wind	Meter Solar	Meter Solar	Resource (ESR)
2,736 MW	136 MW	6,048 MW	571 MW	63 MW

Estimated production cost savings associated with the Broader Regional Market initiatives:

	Current Month Value (\$M)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.75	(\$5.32)
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.69)	(\$2.93)
NY Savings from NE-NY Coordinated Transaction Scheduling	\$2.64	\$10.47
Total NY Savings	\$2.70	\$2.22
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.92	\$10.58
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.26	\$2.38
Total Regional Savings	\$1.19	\$12.96

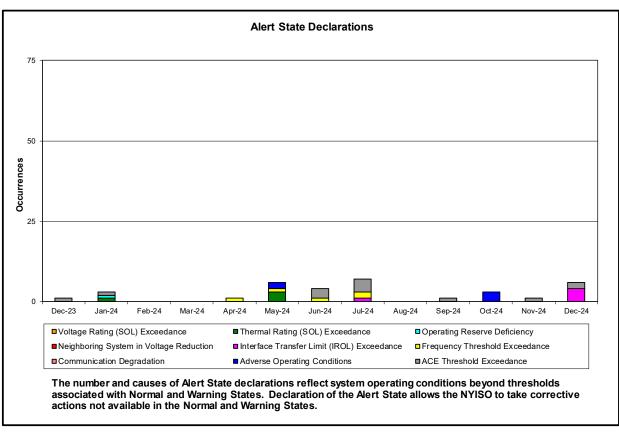
- Statewide uplift cost monthly average was (\$0.52)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

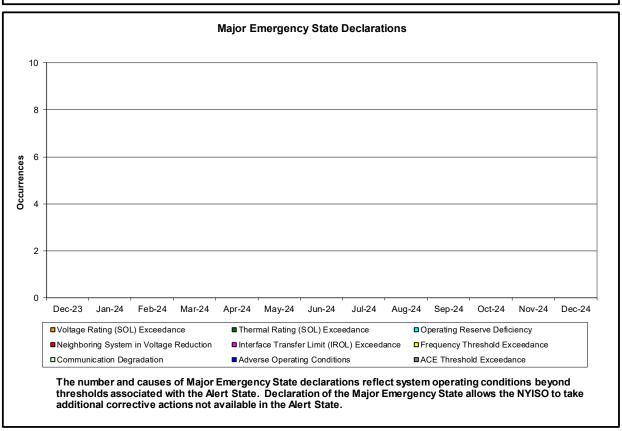
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
January 2025 Spot Price	\$3.43	\$3.43	\$8.10	\$3.43
December 2024 Spot Price	\$3.49	\$3.49	\$8.11	\$3.49
Delta	(\$0.06)	(\$0.06)	(\$0.01)	(\$0.06)

No significant price changes in January 2025.

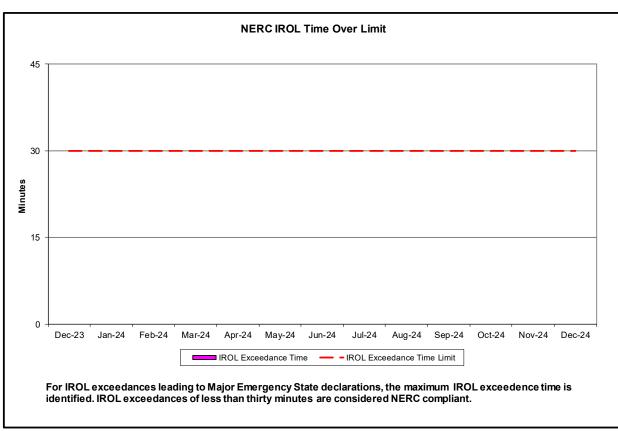


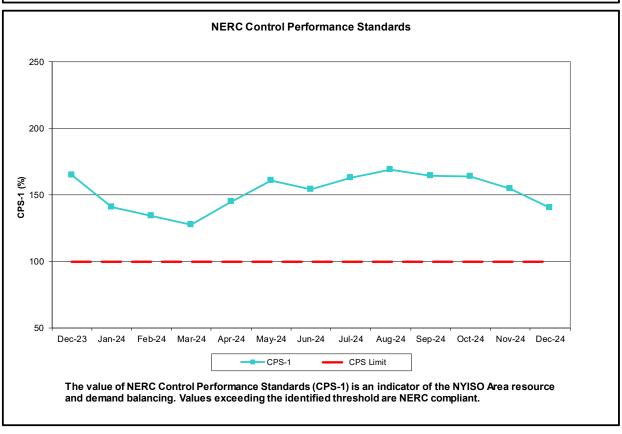
Reliability Performance Metrics



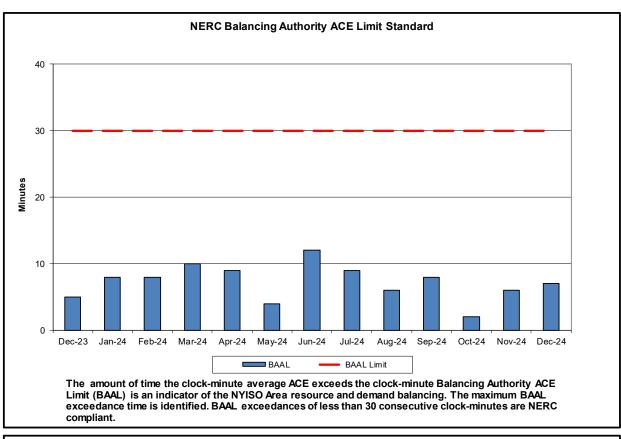


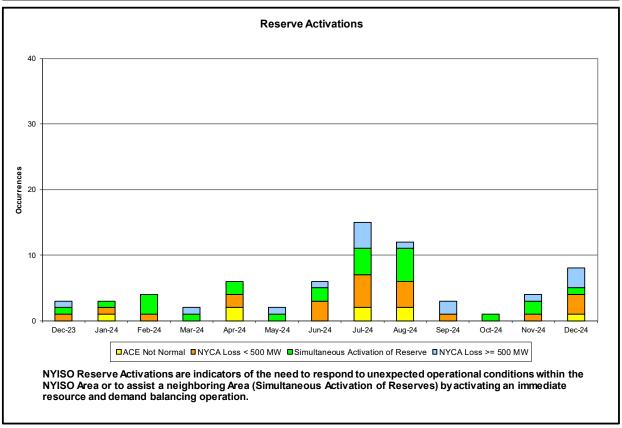




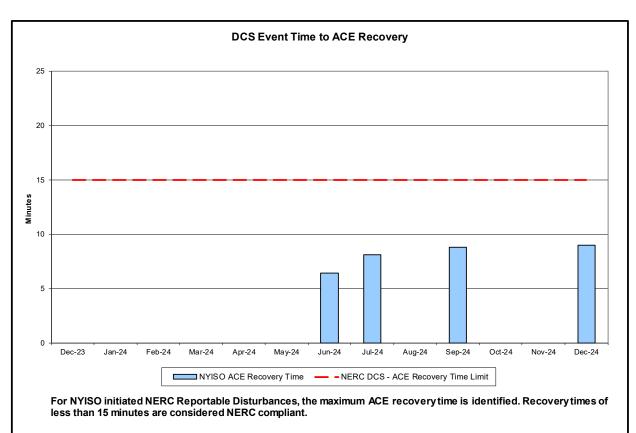


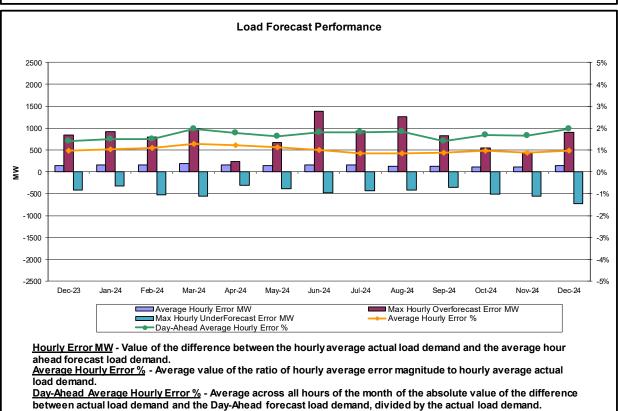




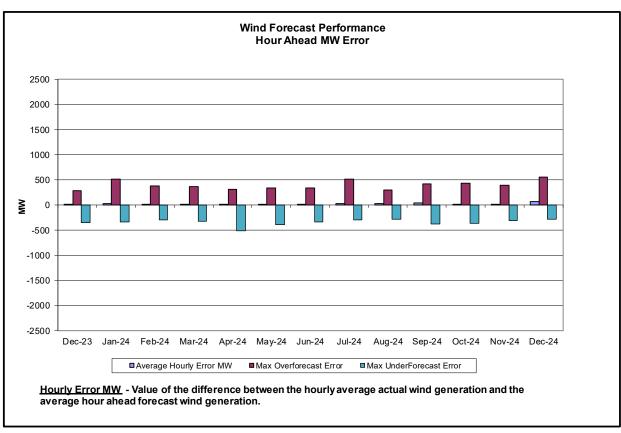


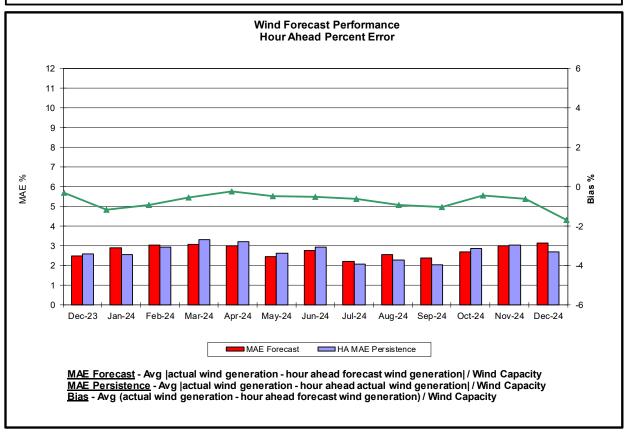




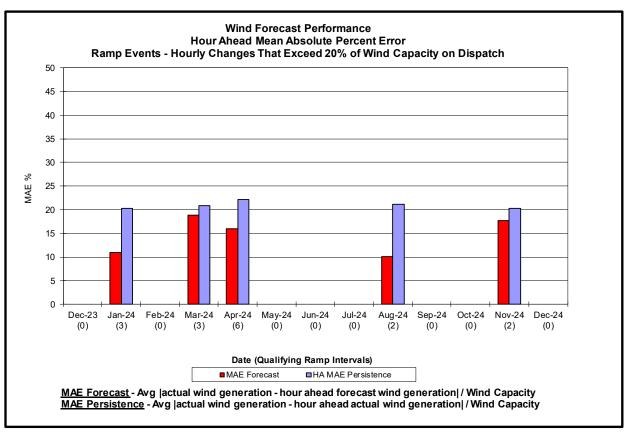


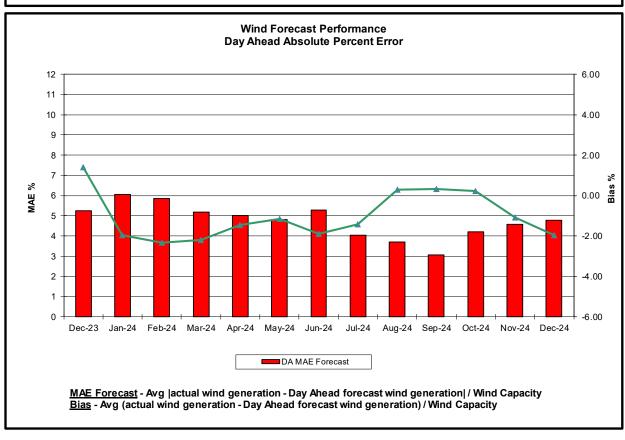




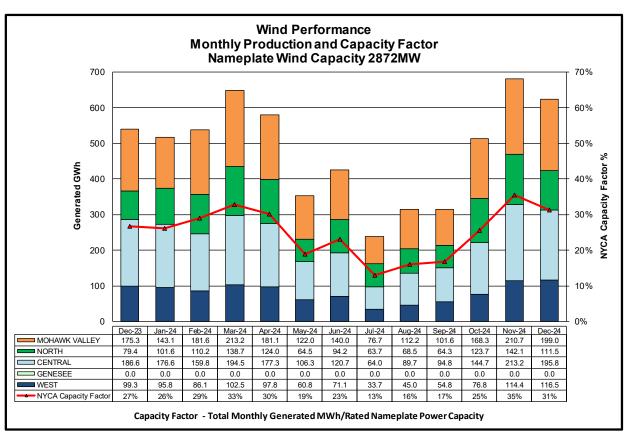


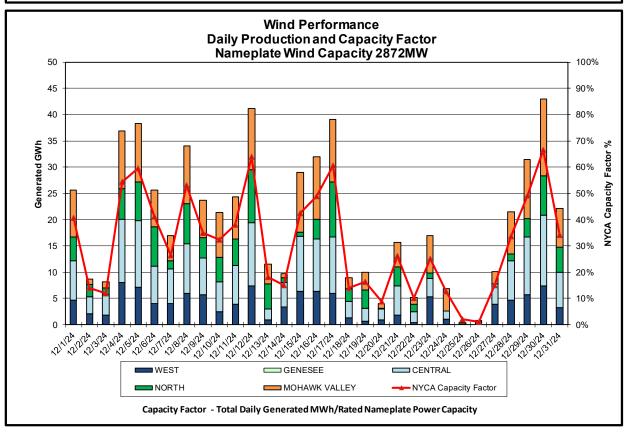




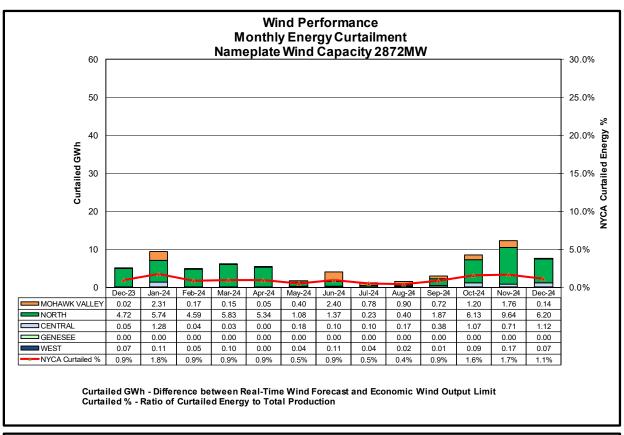


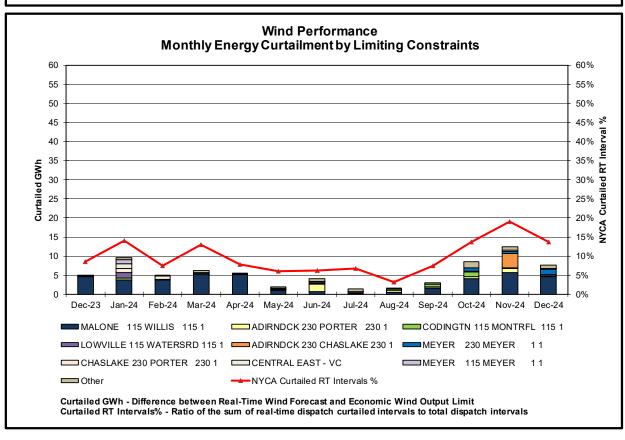




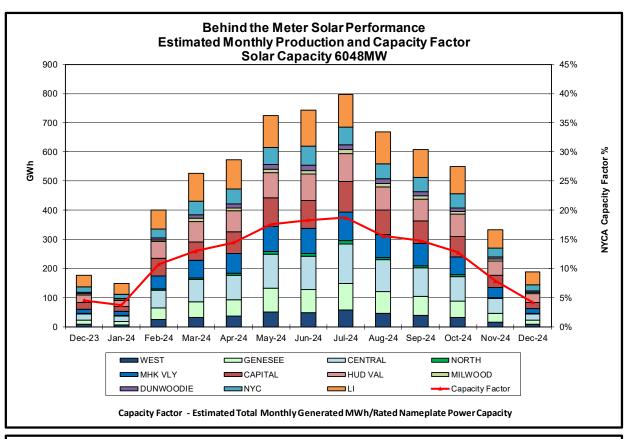


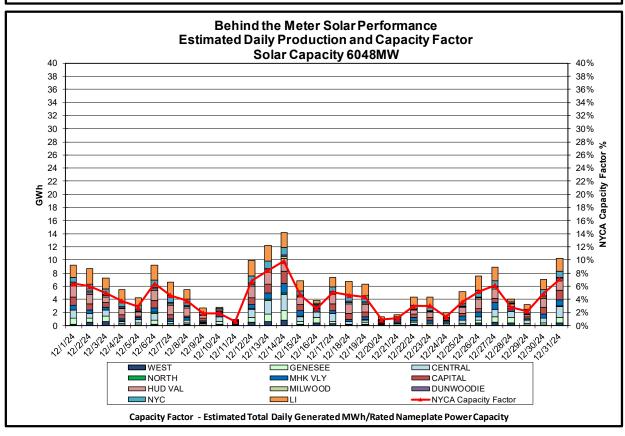




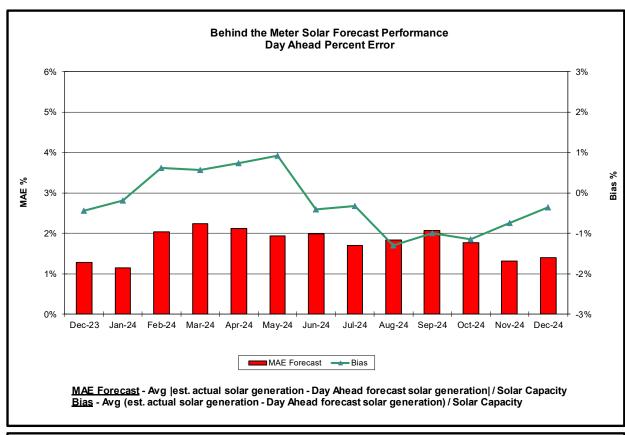


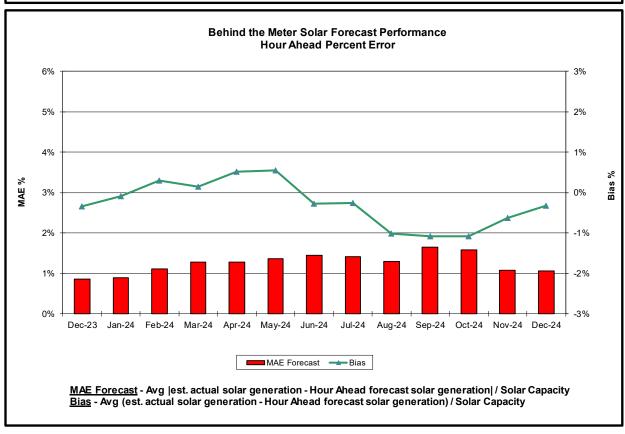




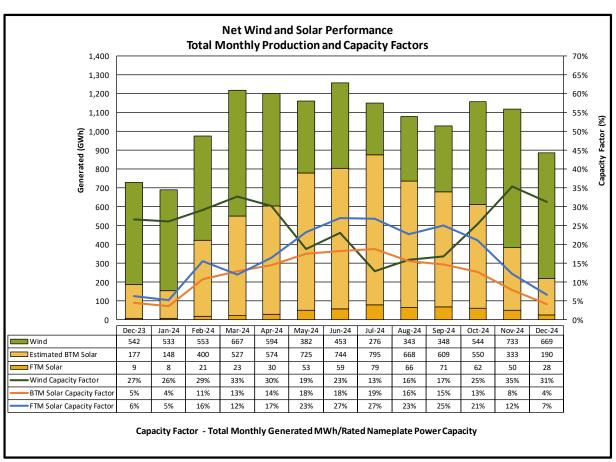


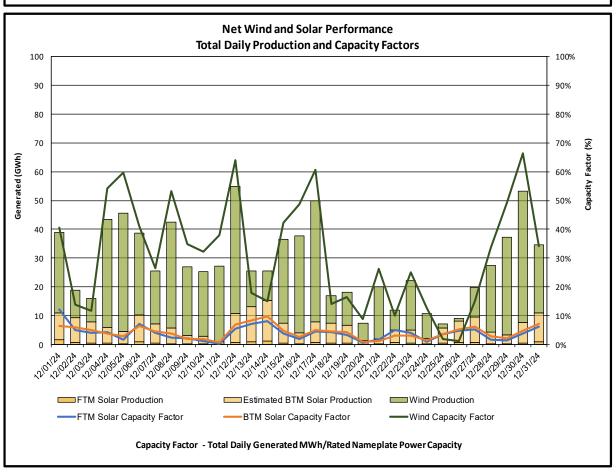




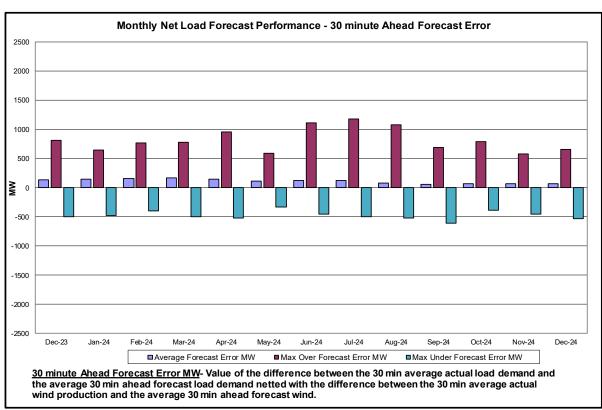


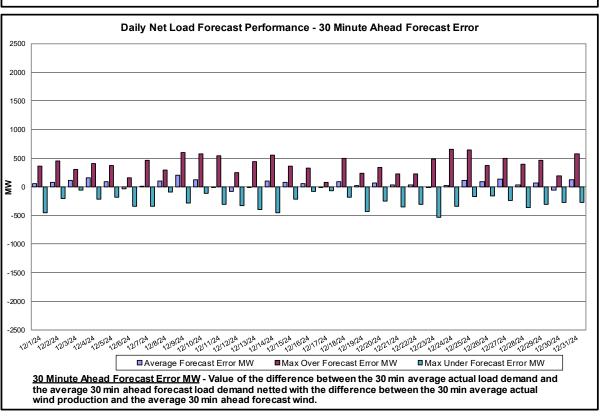




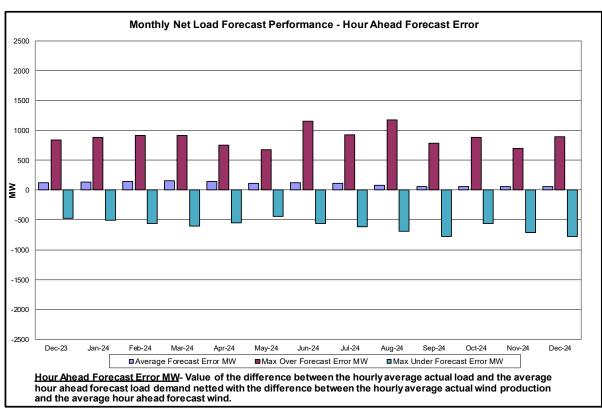


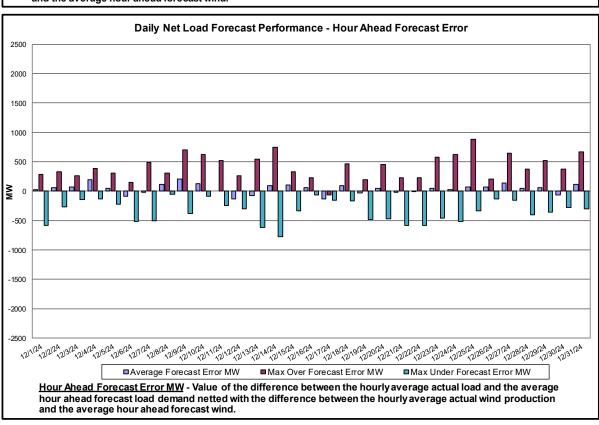




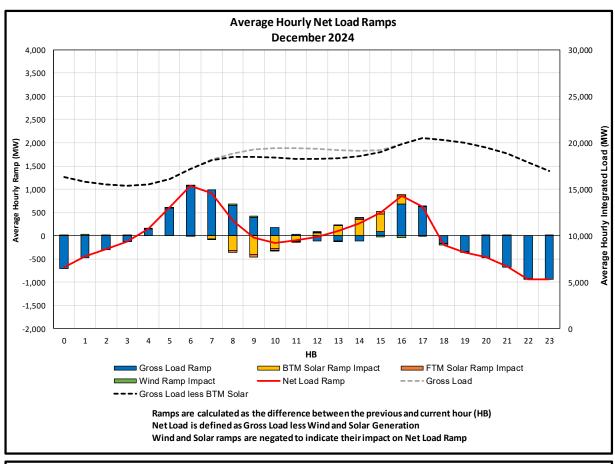


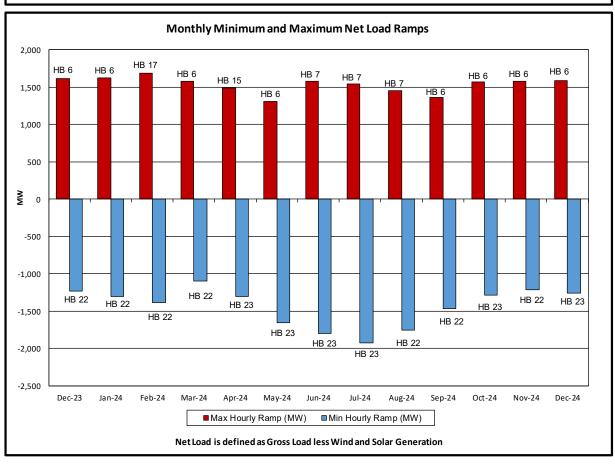




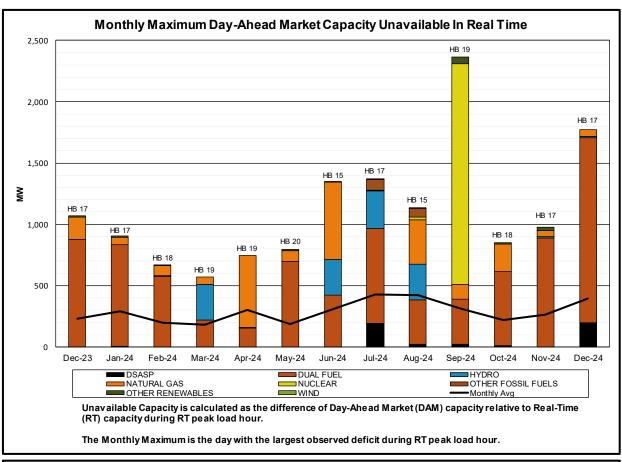


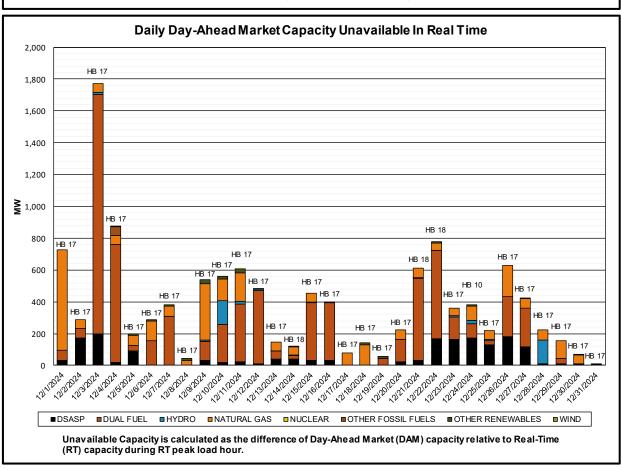




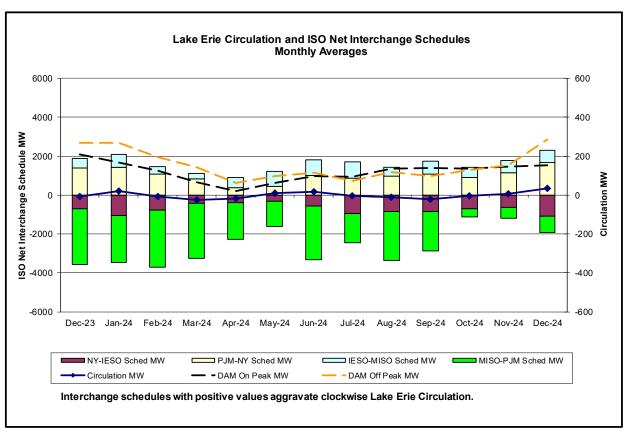


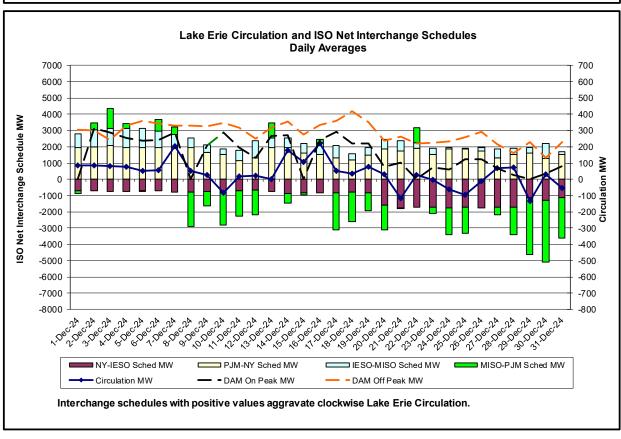






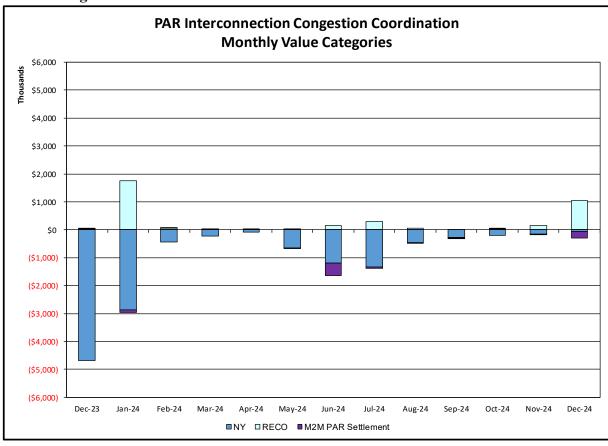


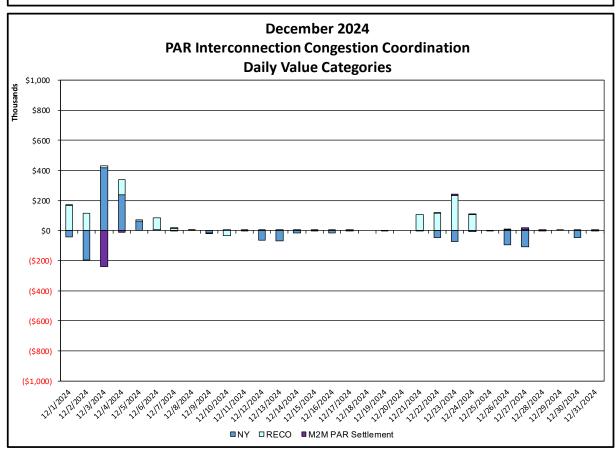


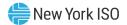




Broader Regional Market Performance Metrics







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

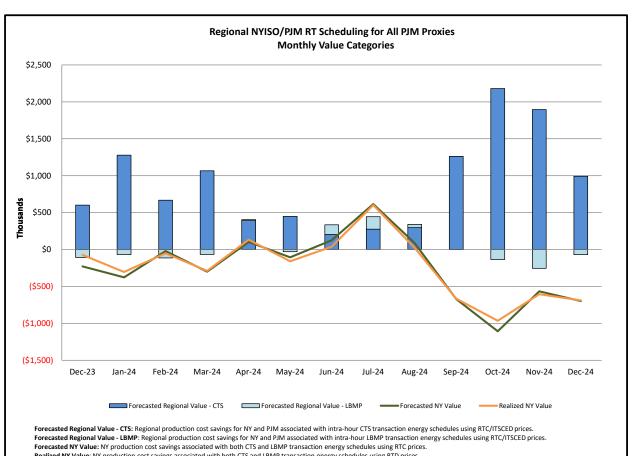
of RECO over Ramapo 5018.

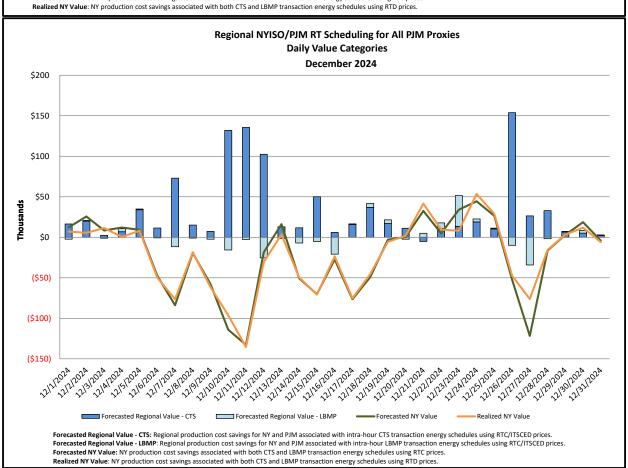
M2M PAR Settlement Market-to-Market PAR Coordination settlement on coordinated flowgates. Through April 2017

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

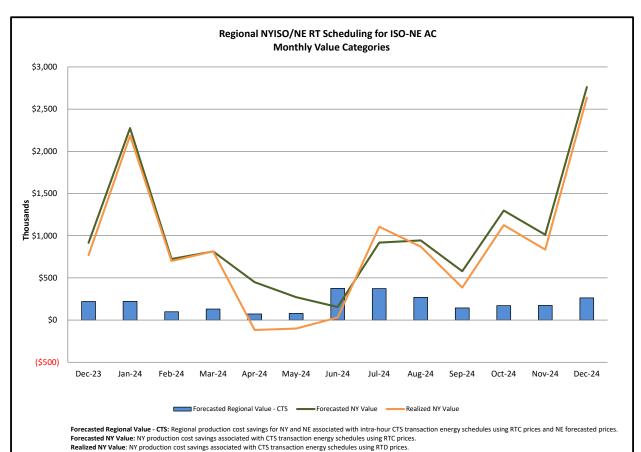
indicates settlement to NY while the negative indicates settlement to PJM.

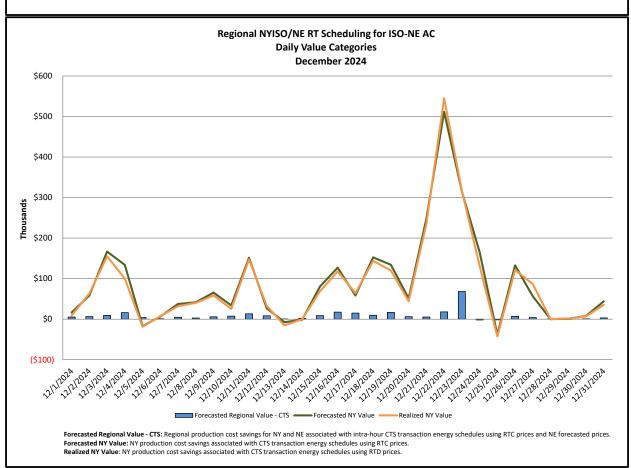






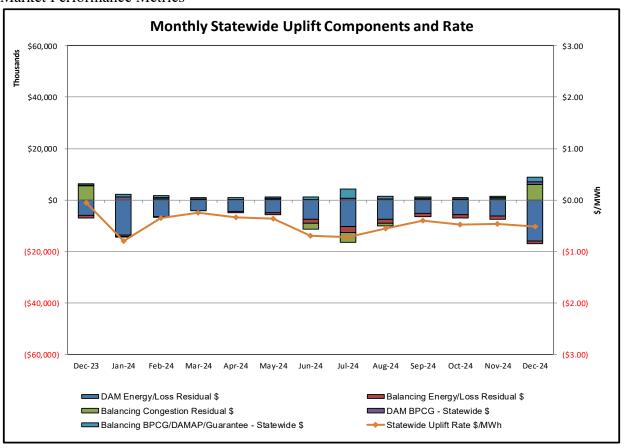




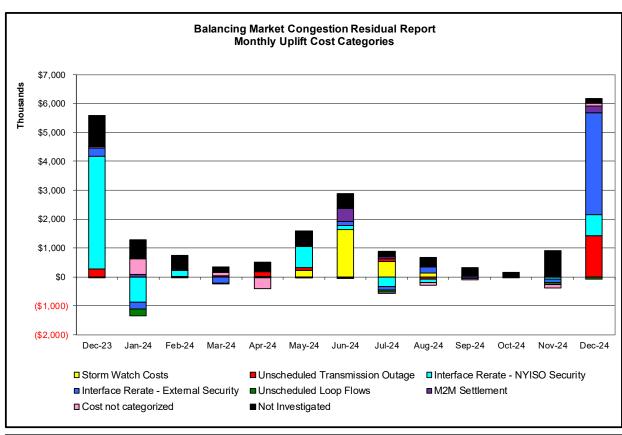


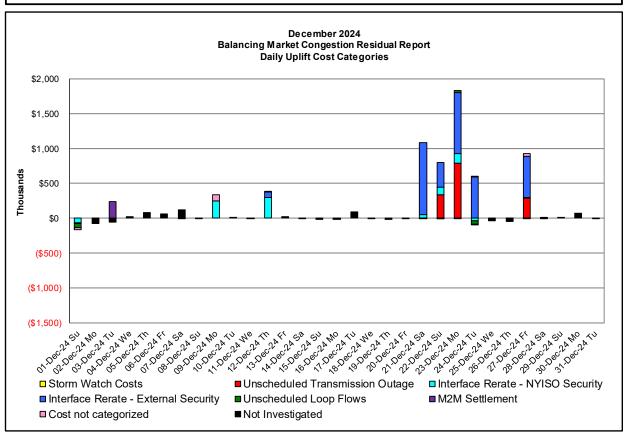


Market Performance Metrics







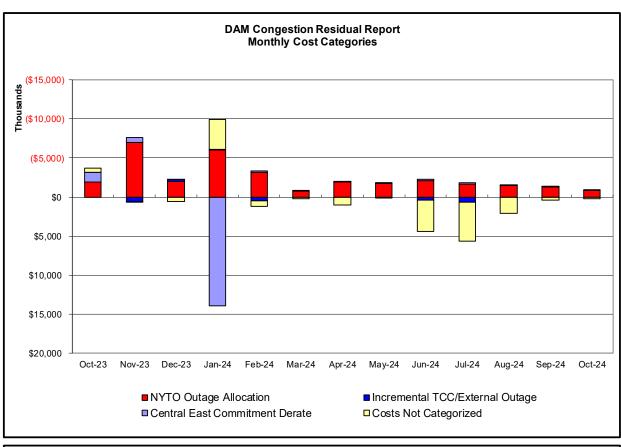


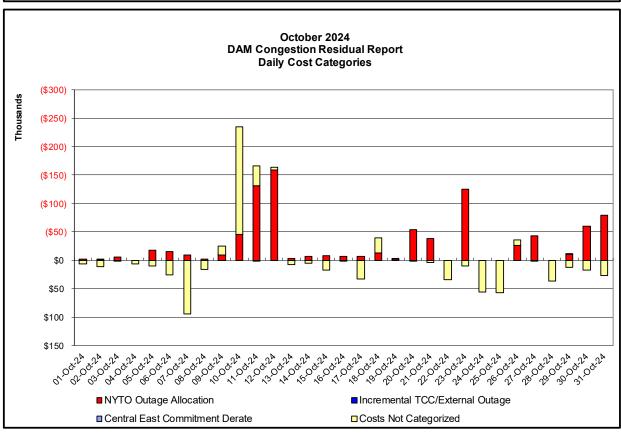


Days in	vestigated in December:1,9,12,21,22,23,24,27	
Event	Description	December Dates
	Forced Outage BuchananS-Millwood 345kV (#W97&W98)	27
	Forced Outage Gowanus-Greenwood 138kV (#42231)	22,23
	Forced Outage Ladentown-Lovett 345kV (#Y66)	27
	Forced Outage Lovett-BuchananS 345kV (#Y88)	27
	Forced Outage Massena-Marcy 765kV (#MSU1)	23
	Derate Buchanan-Lovett (#Y88) I/o Ramapo-Buchanan 345kV (#Y94)	12
	Derate Goethals-Linden (#A2253) I/o TWR: Y66&Y94&TA5	12
	Derate Malone-Willis (#1-910) I/o Moses-Willis 230kV (#MW2)	12
	Derate Niagara 345/230kV (#AT4)	12
	Derate Rocktavern-Roseton 345kV (#311) I/o TWR: Y66&Y94&TA5	22
	NYCA Active DNI ramp limit	1,9,12,21-24,27
	Uprate Central East - VC	1,24
	Uprate Central East - VC	1,24
	Uprate Foxhills-Willowbrook 138kV (#29211) I/o SCB:GOWANUS(14):42&42232&R14	24
	Uprate Goethals-Gowanus 345kV (#25)	24
	HQ_CHAT - NY Scheduling Limit	12
	IESO_AC - NY Scheduling Limit	1,12
	NE_AC - NY Scheduling Limit	1,21,24
	NE_AC Active DNI Ramp Limit	12,21-24,27
	NE_NNC1385 - NY Scheduling Limit	23
	PJM_AC - NY Scheduling Limit	21-24,27
	PJM_AC Active DNI ramp limit	1,12,27
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East	1,23,24
	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West	1

<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 Rerate 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 Rep	ort Assumptions/No	<u>tes</u>	









Day-Ahead Market Congestion Residual Categories				
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO		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 Rerate	All TO by Monthly Allocation Factor	Changes in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages.		



