

Operations Performance Metrics Monthly Report



August 2024 Report

Operations & Reliability Department New York Independent System Operator

Prepared by NYISO Operations Analysis and Services, based on settlements initial invoice data collected on or before September 10, 2024.

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August 2024 Operations Performance Highlights

Monthly Peak Load	Monthly Minimum Load	Summer 2024 Peak	All-time Summer Peak
08/01/2024 HB 17 28,444 MW	08/22/2024 HB 03 13,345 MW	07/08/2024 HB 17 28,990 MW	07/19/2013 HB 16 33,956 MW

- 31.1 hours of Thunderstorm Alerts were declared
- 0.0 hours of NERC TLR level 3 curtailment
- EDRP/SCR resources activated in all zones on 8/01/2024 from HB15 to HB20.
- Revised Moses South Stability limits for outage condition scenarios were employed in EMS/BMS with the August network model deployment. The limits were presented and approved for use at the July Operating Committee meeting.

Installed Wind, Solar and Energy Storage Resource Nameplate Values:

Land-Based Wind	Offshore Wind	Behind-the-Meter Solar	Front-of-the-Meter Solar	Energy Storage Resource (ESR)
2,736 MW	136 MW	5,775 MW	394 MW	63 MW

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

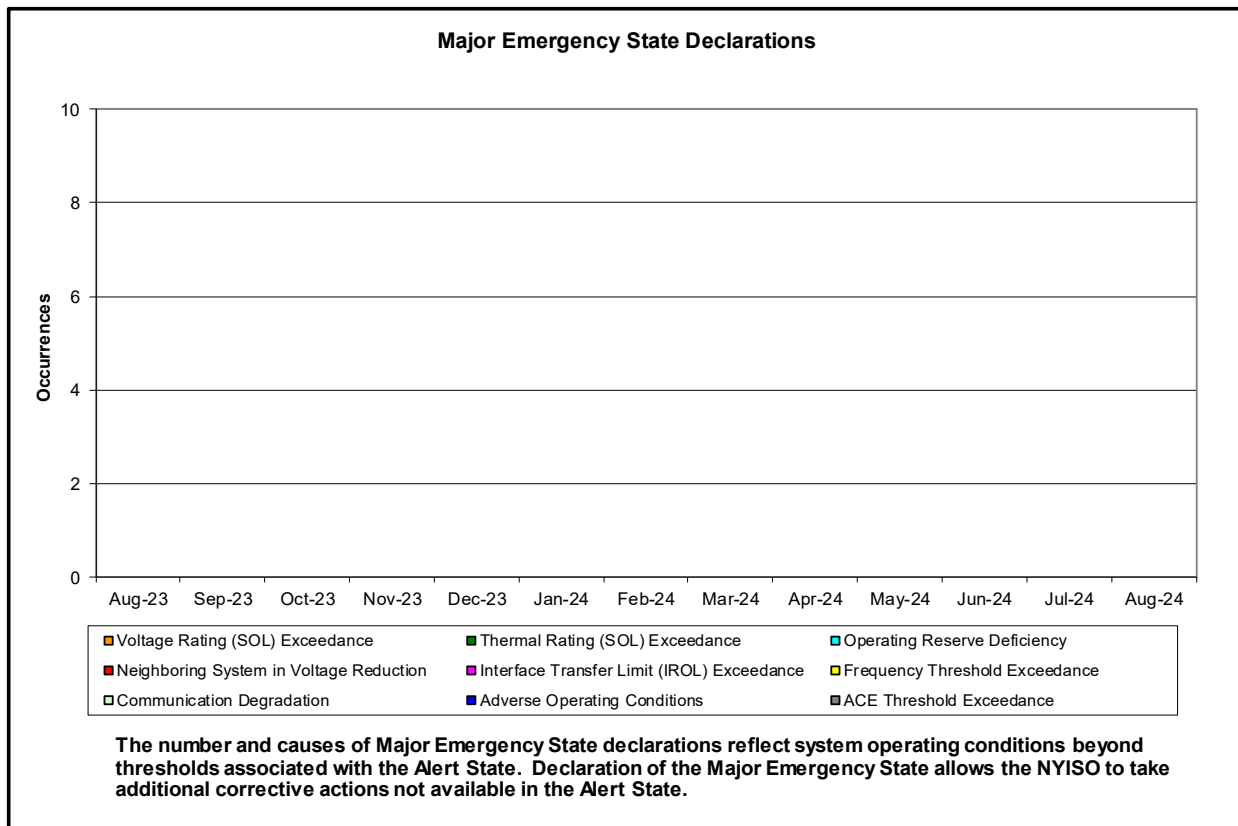
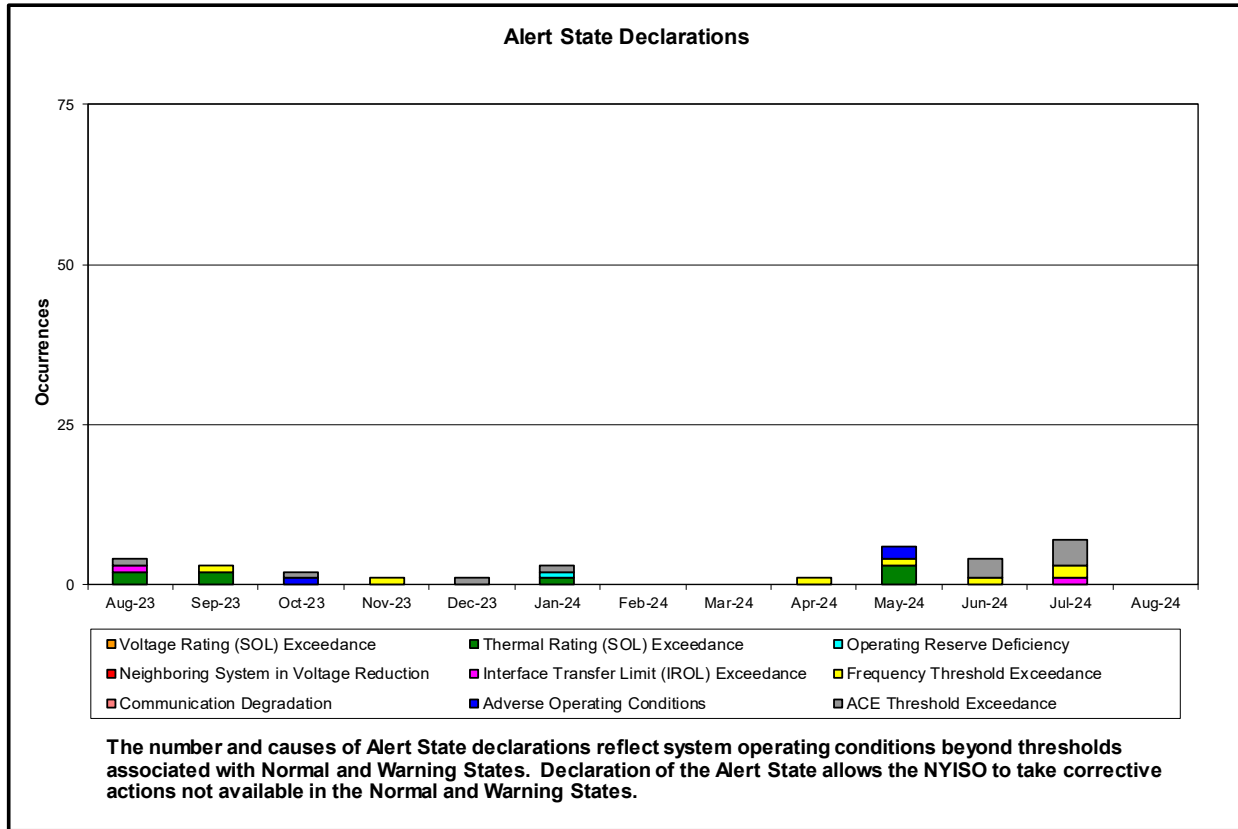
	Current Month Value (\$M)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	(\$0.43)	(\$5.55)
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.02	(\$0.01)
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.87	\$5.49
Total NY Savings	\$0.46	(\$0.05)
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.34	\$4.71
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.27	\$1.62
Total Regional Savings	\$0.61	\$6.33

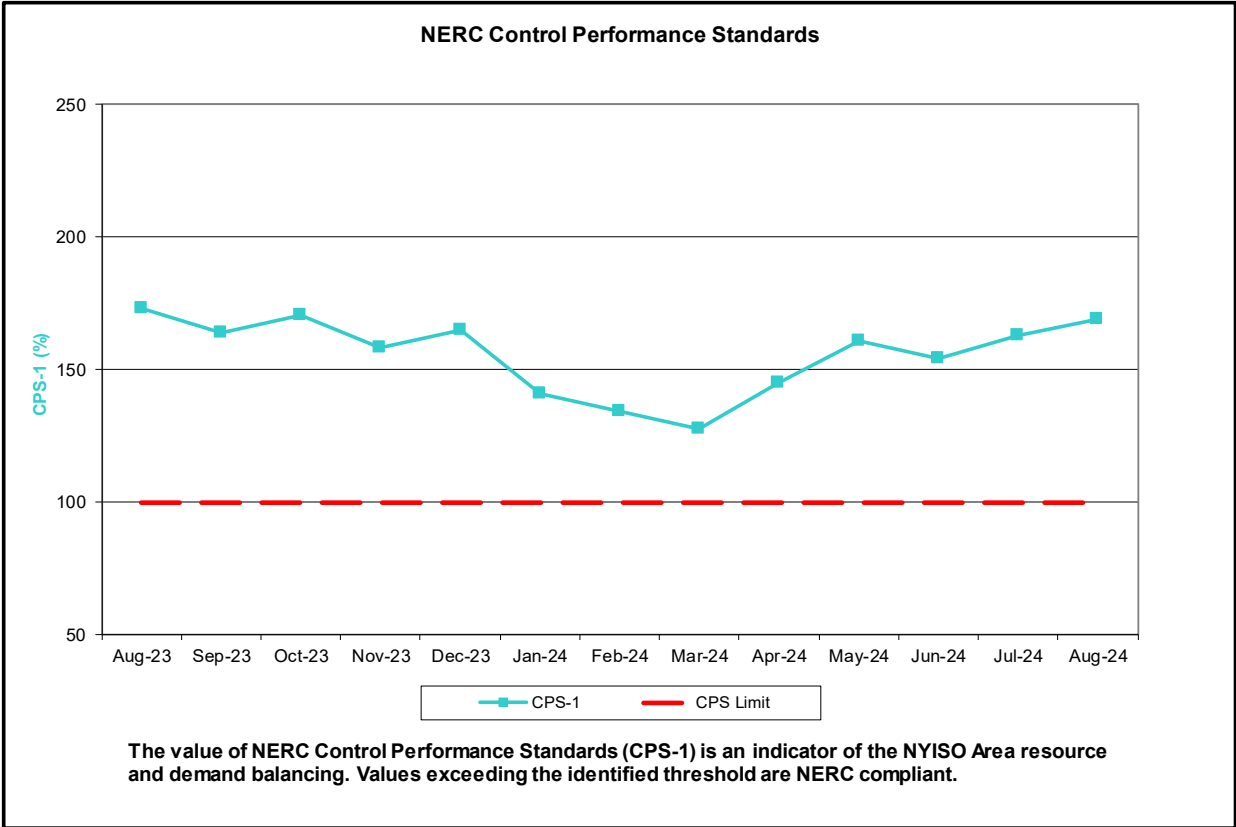
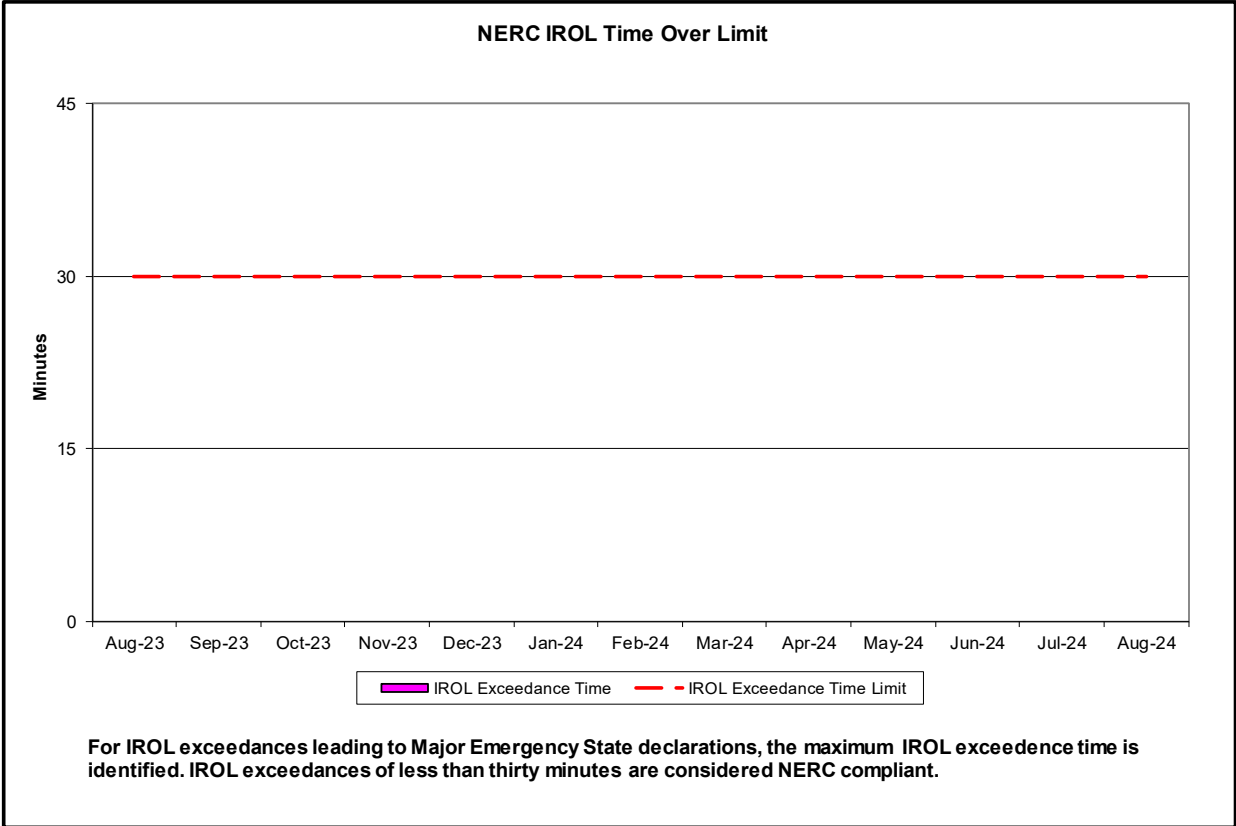
- Statewide uplift cost monthly average was (\$0.55)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

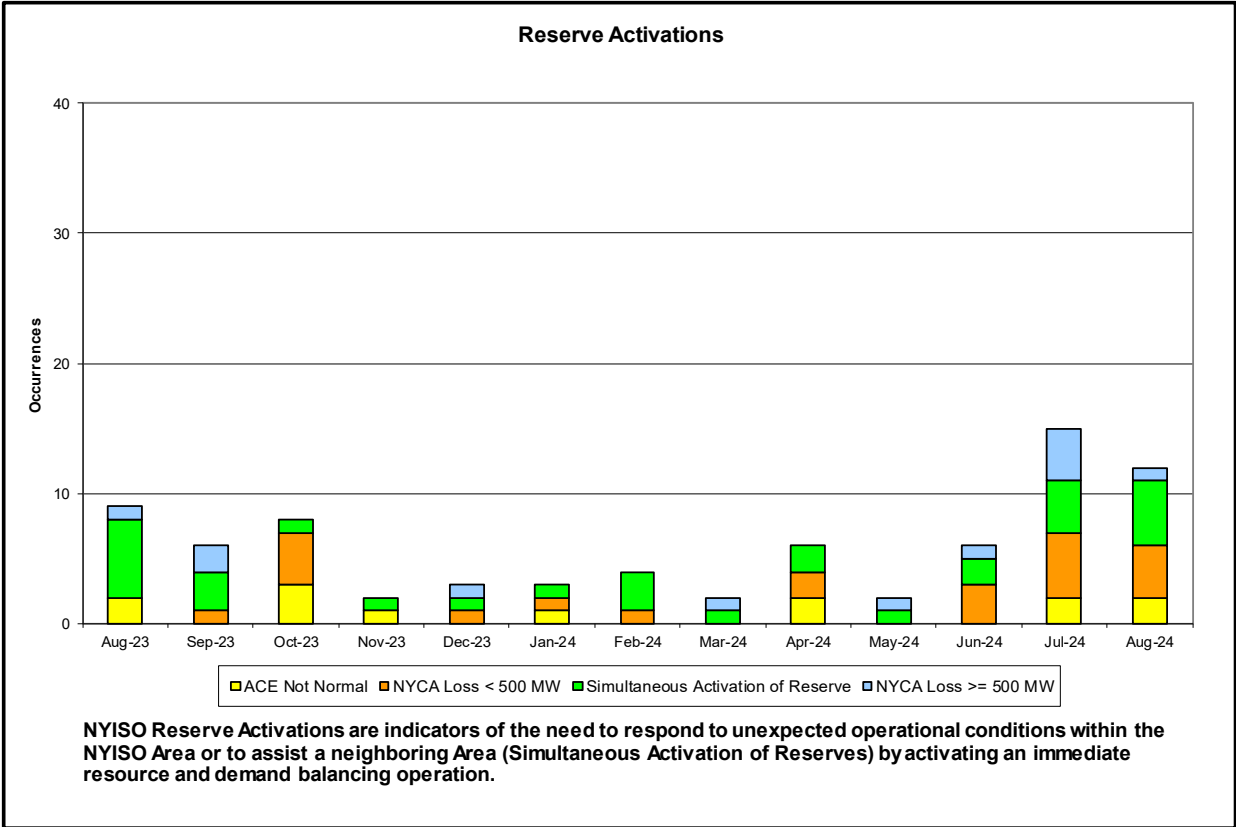
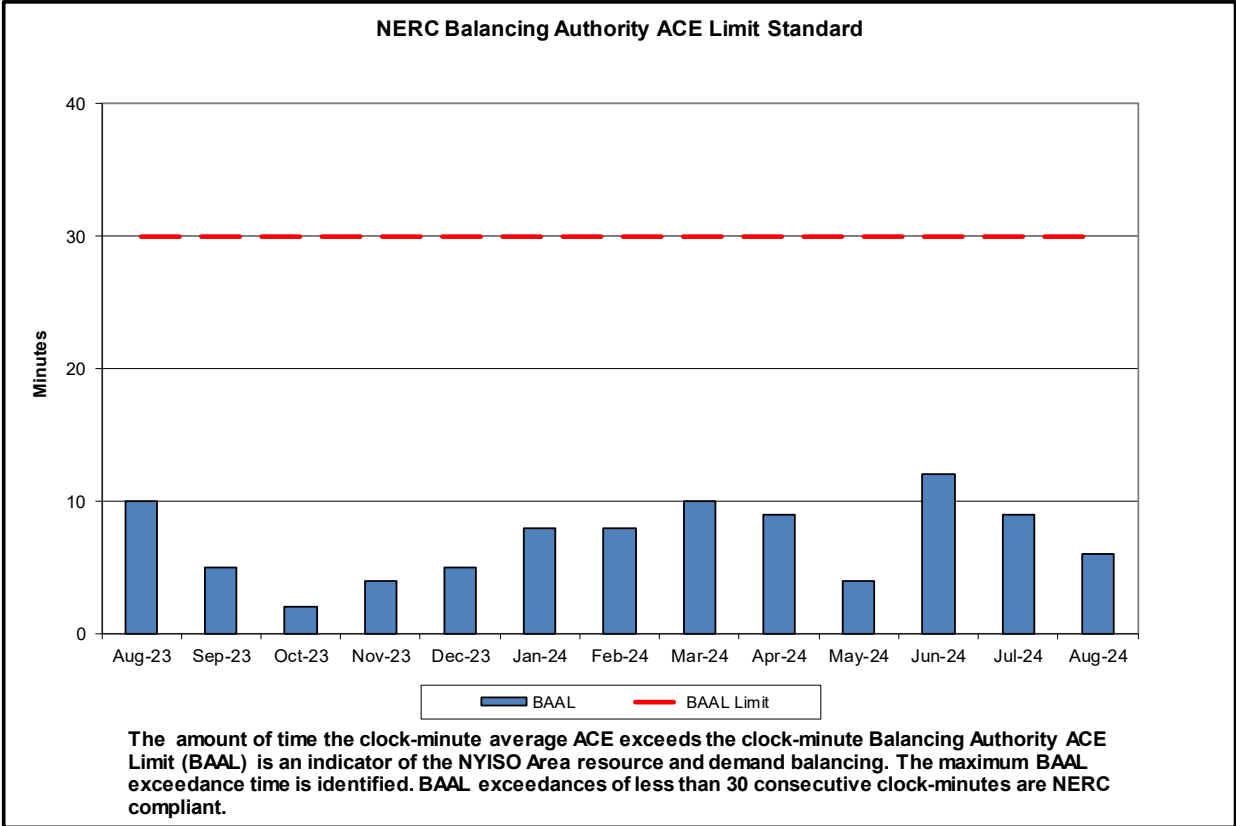
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
September 2024 Spot Price	\$3.87	\$3.87	\$14.10	\$3.87
August 2024 Spot Price	\$3.91	\$3.91	\$14.18	\$3.91
Delta	(\$0.04)	(\$0.04)	(\$0.08)	(\$0.04)

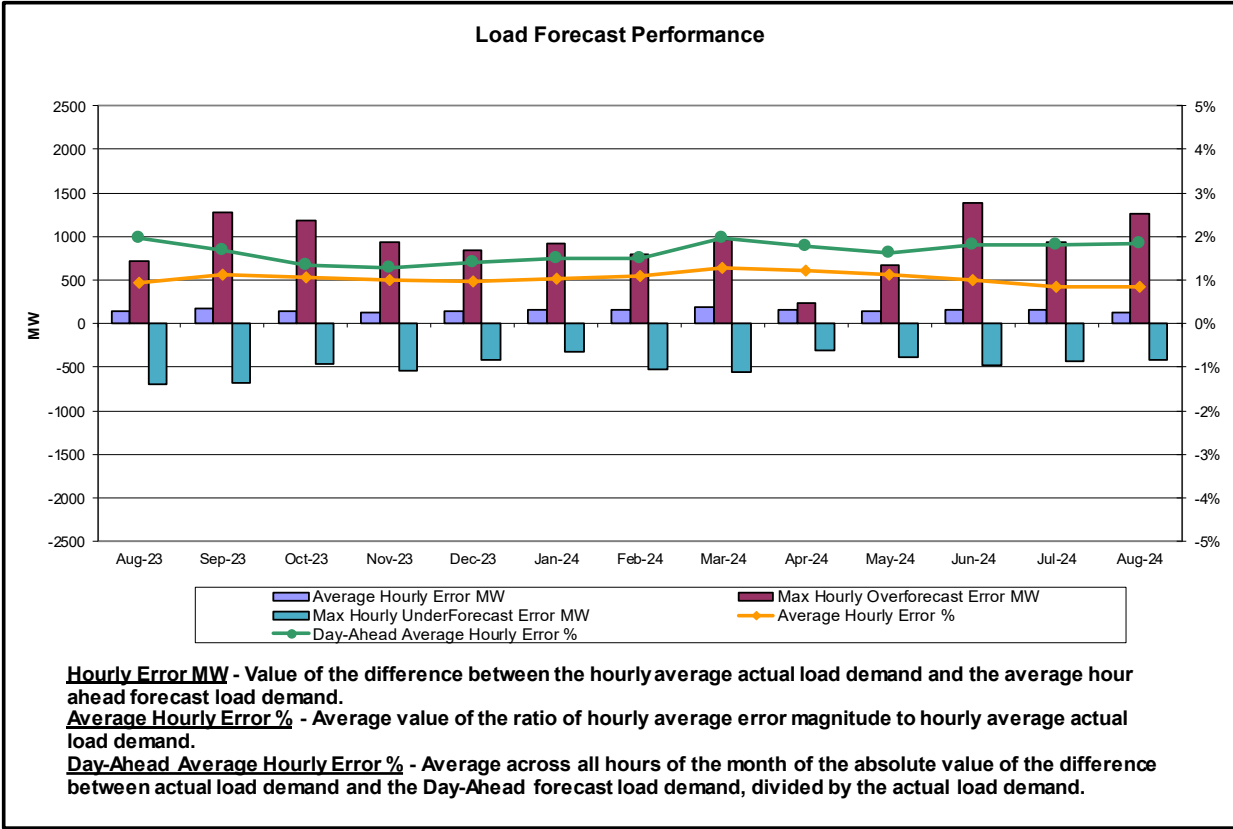
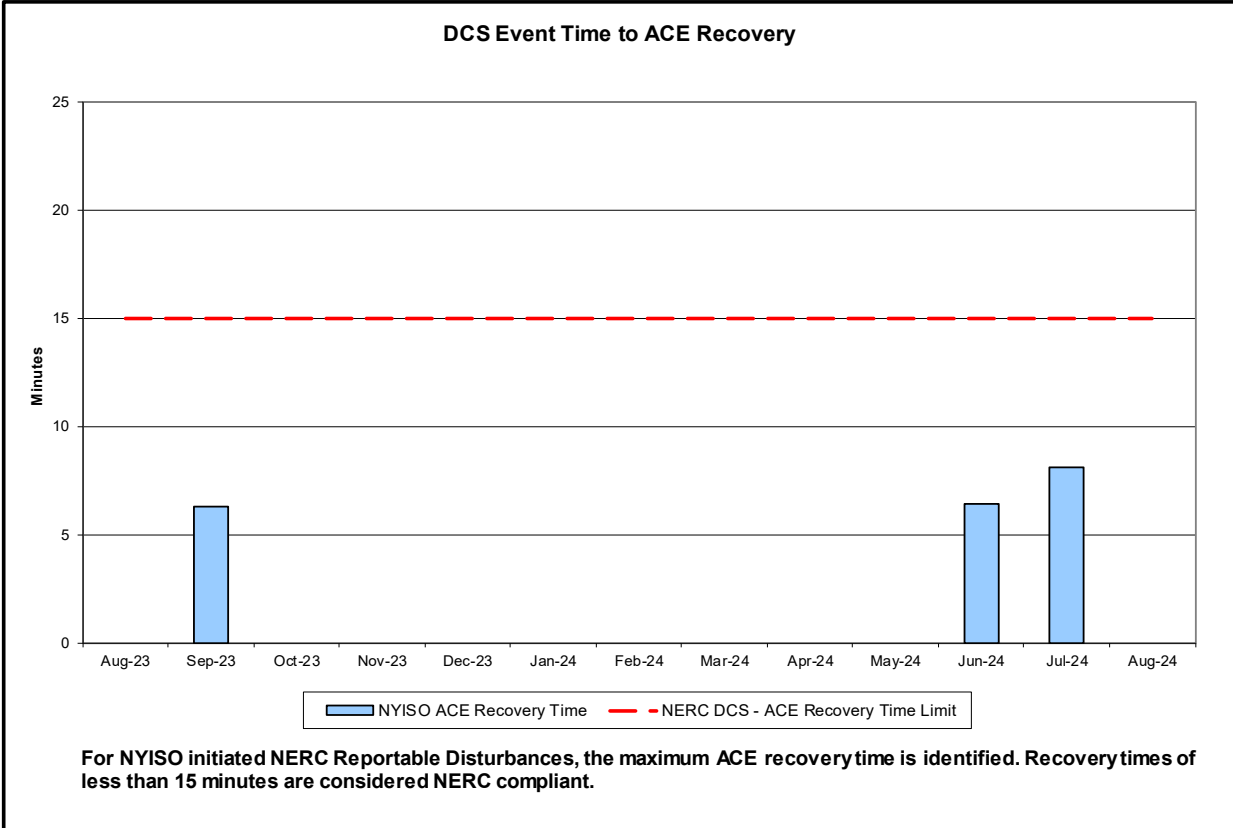
- Price change in NYC was driven by an increase in ICAP. Price change in NYCA was driven by a increase in ICAP, increase in Imports and decrease in Exports.

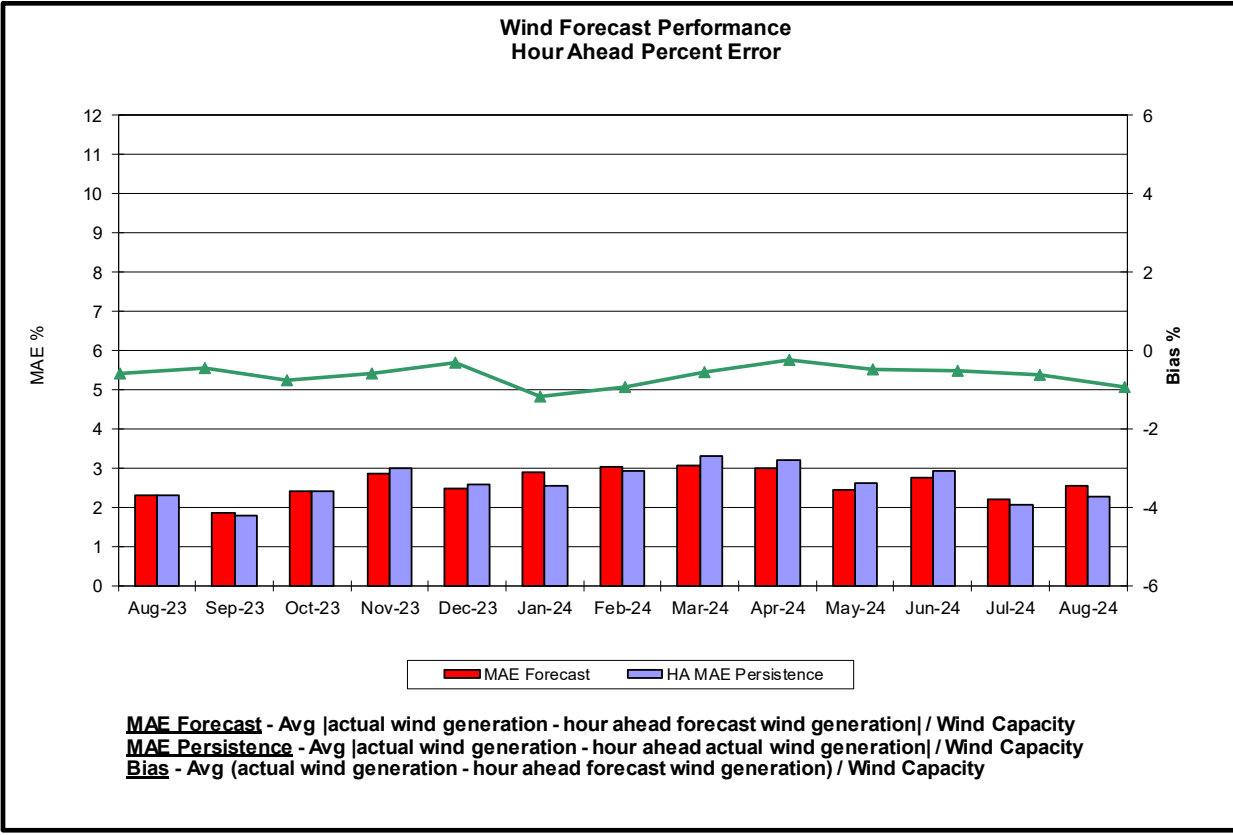
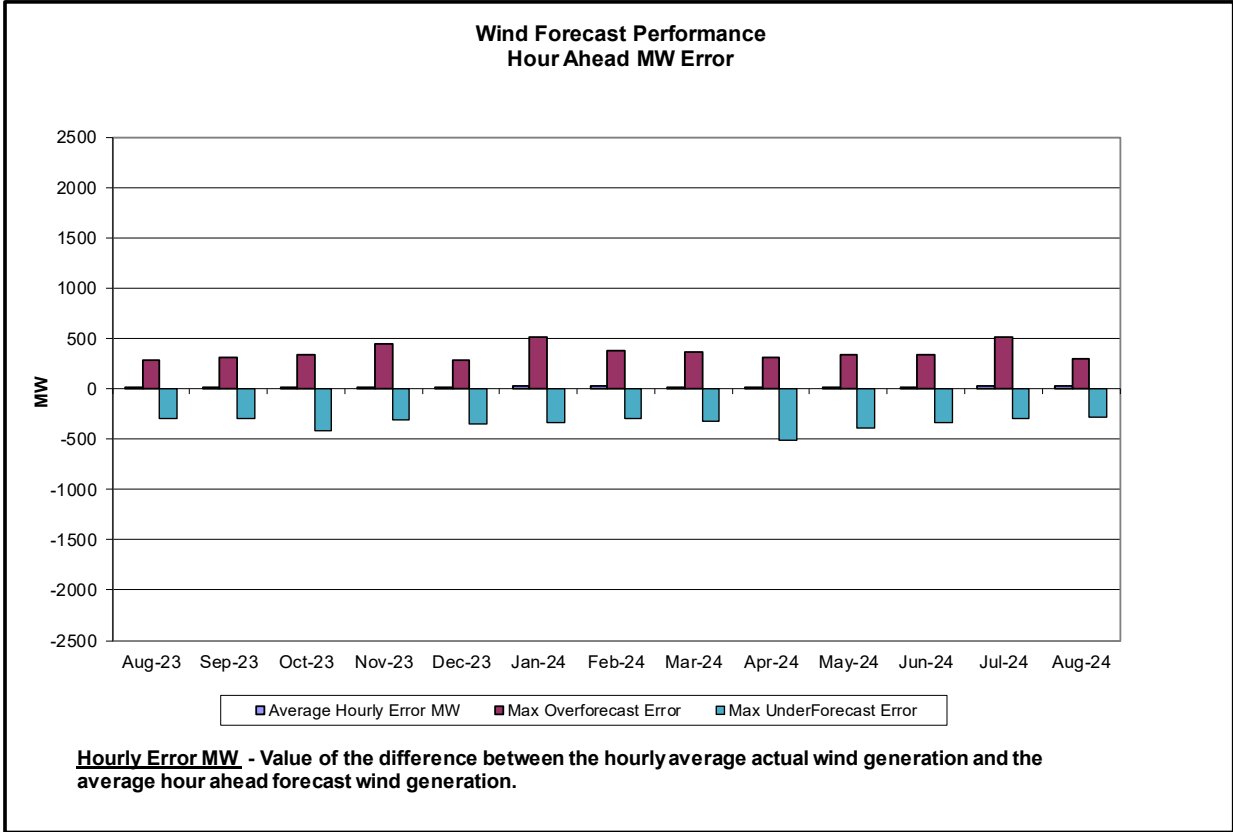
Reliability Performance Metrics

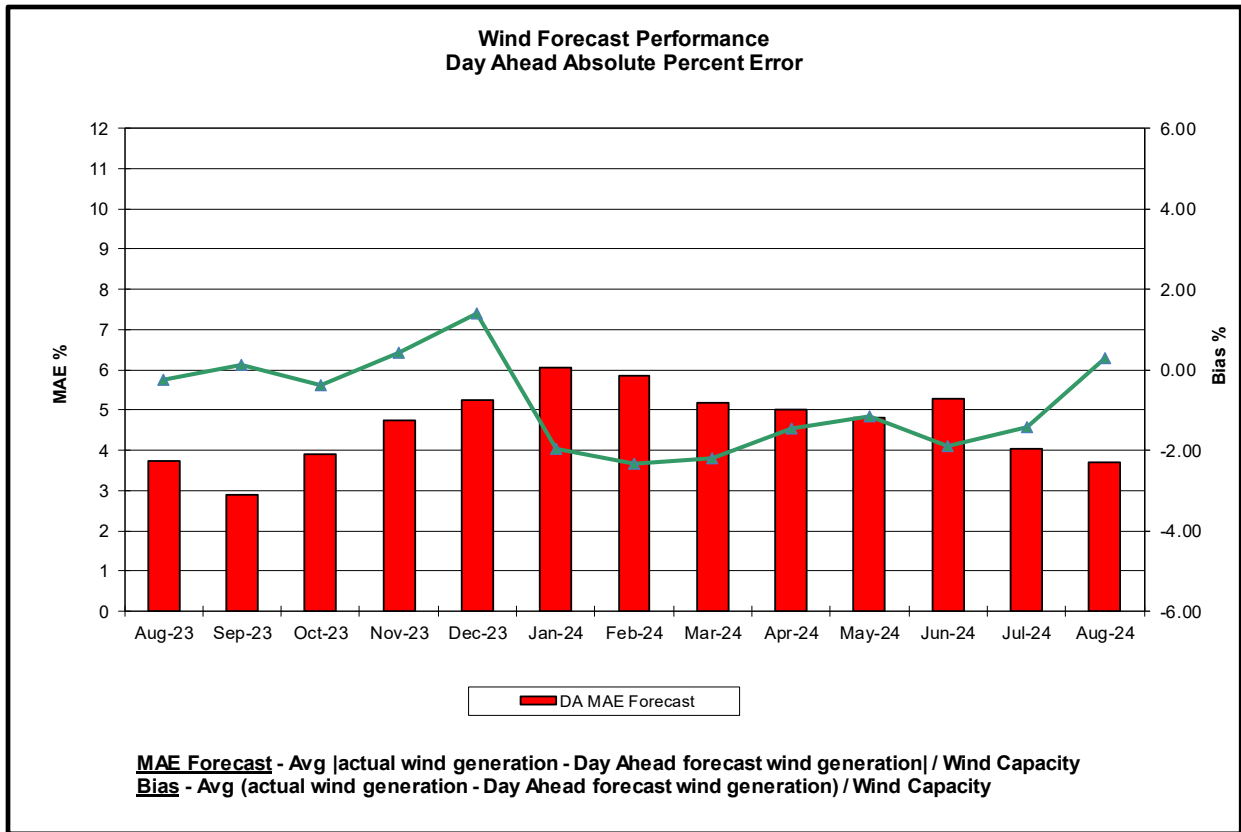
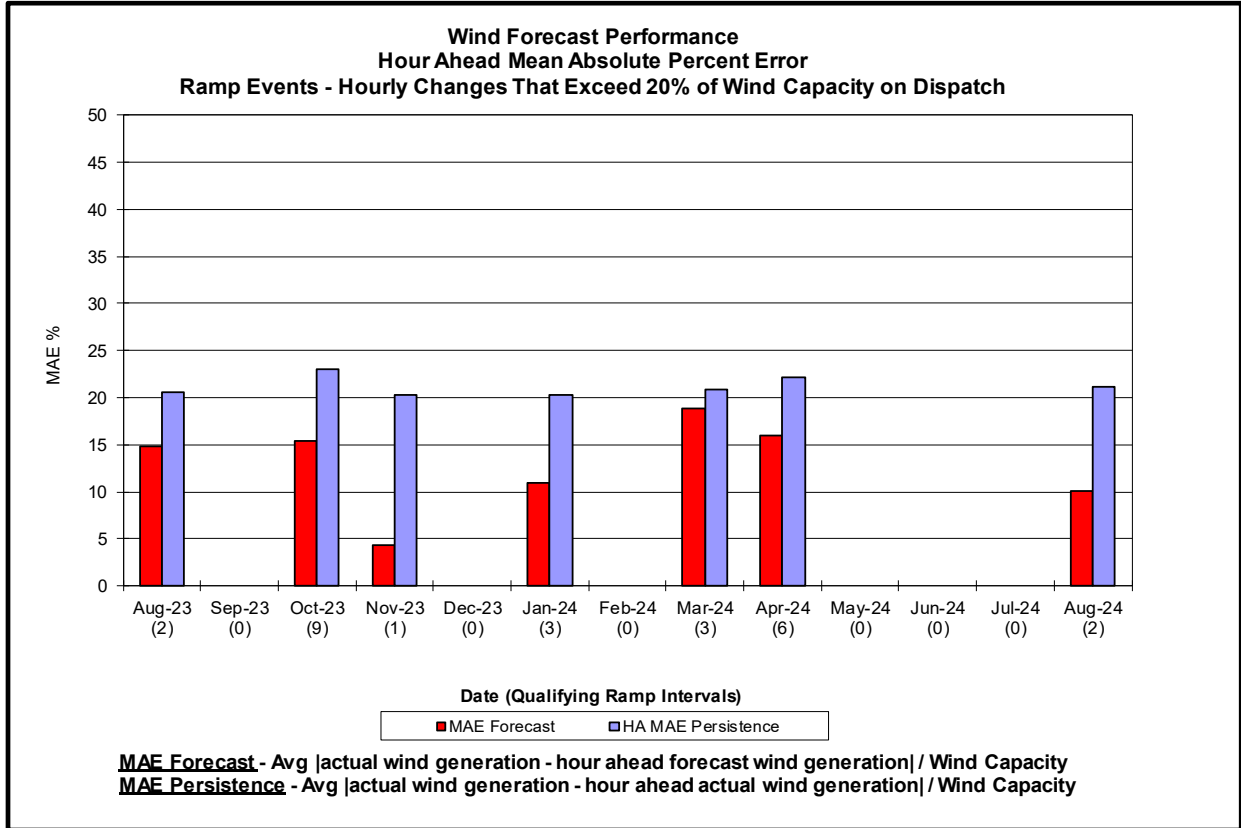


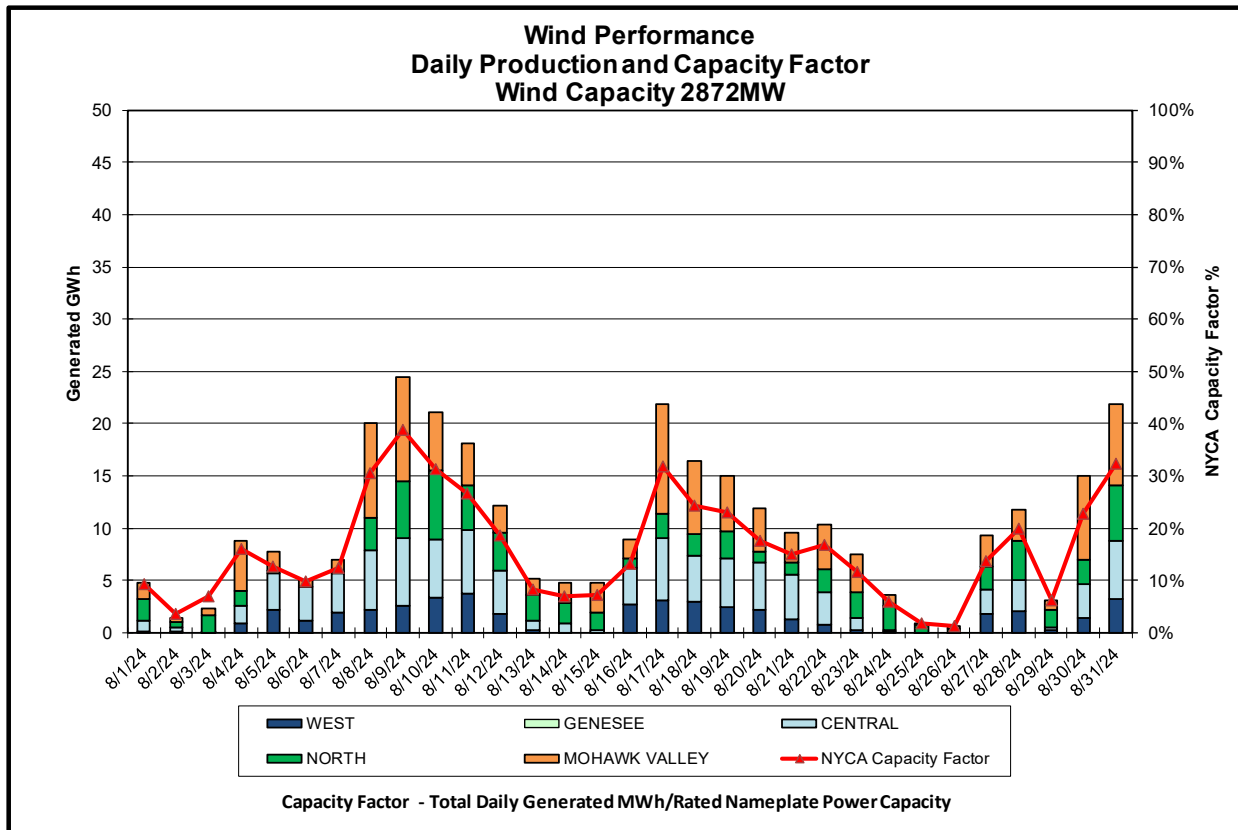
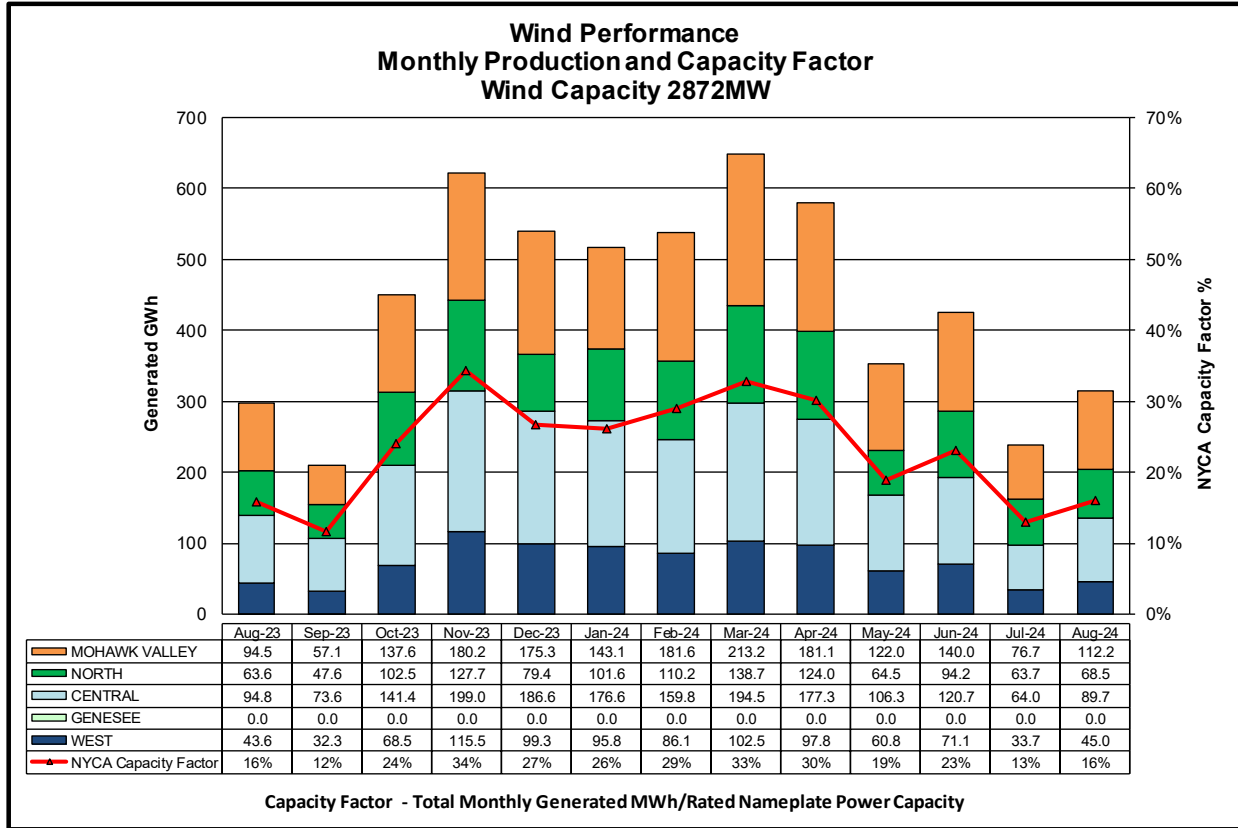


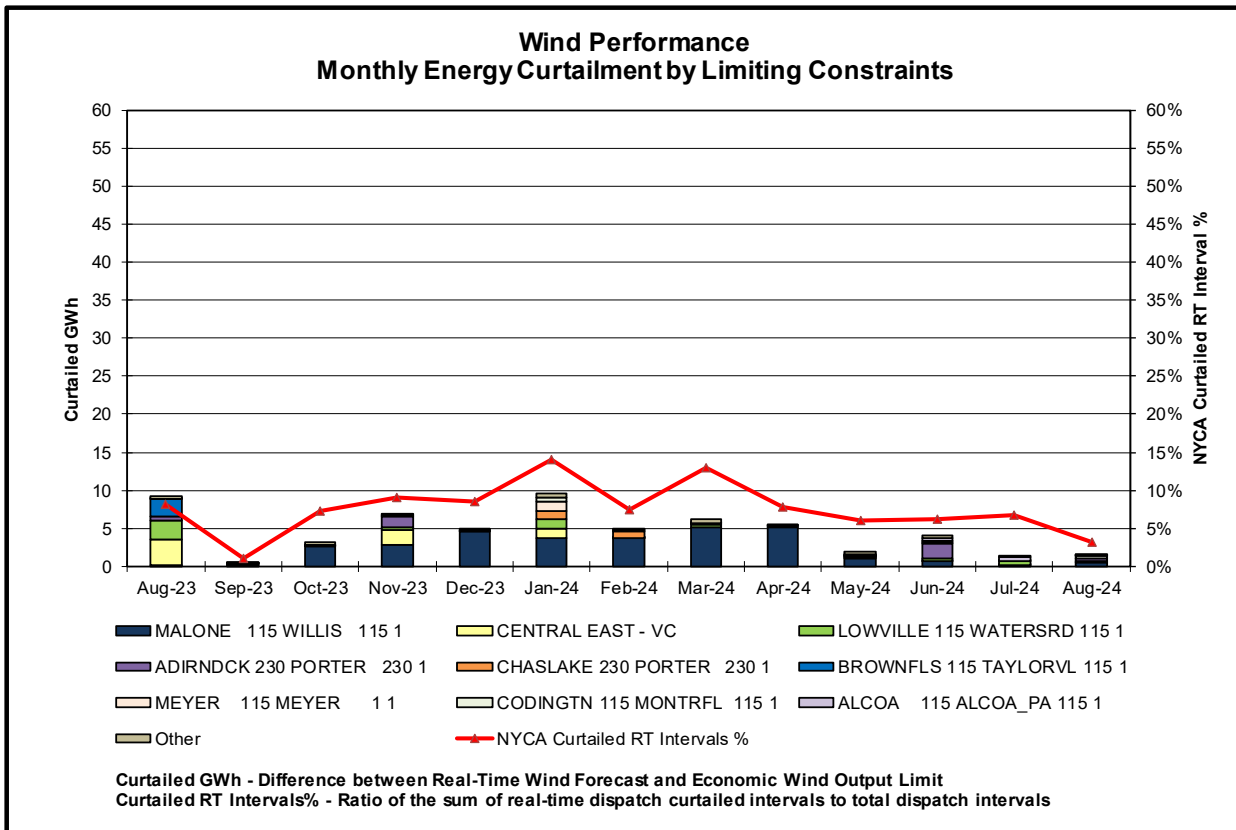
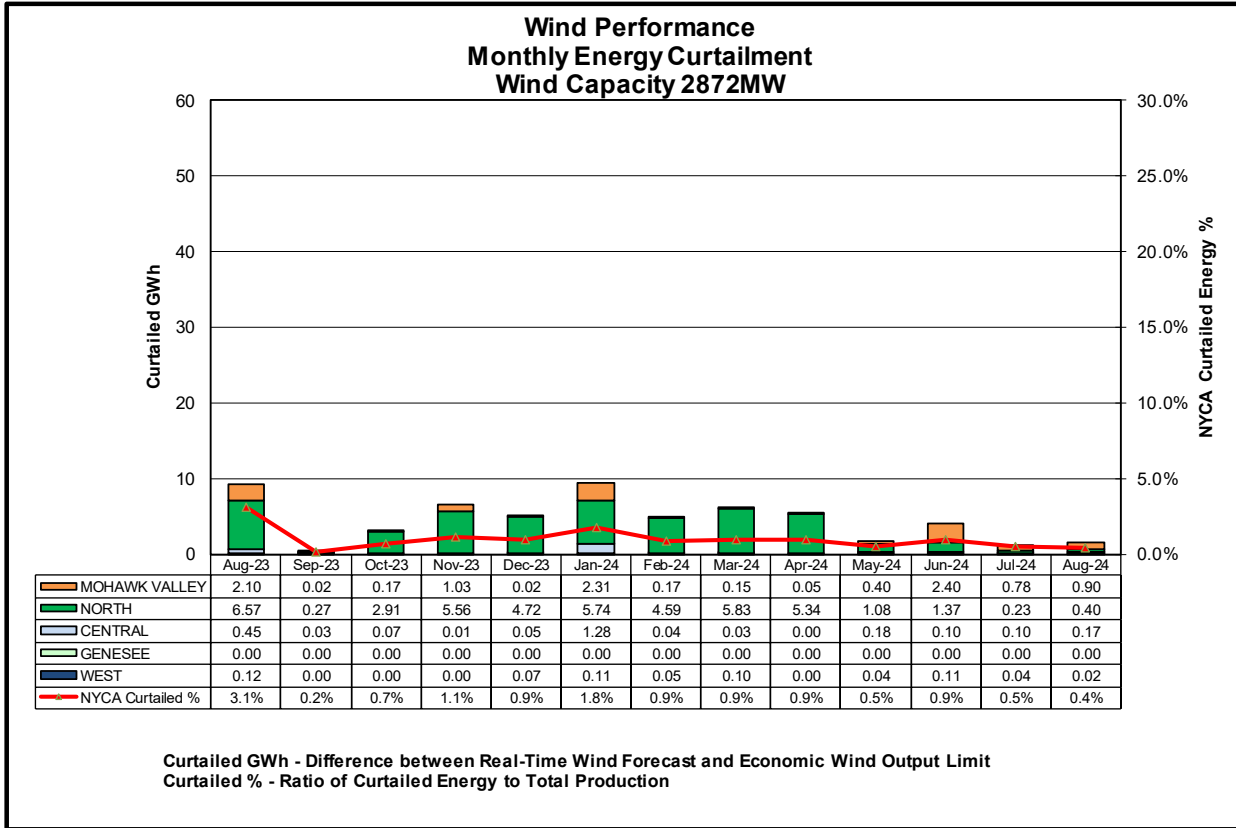


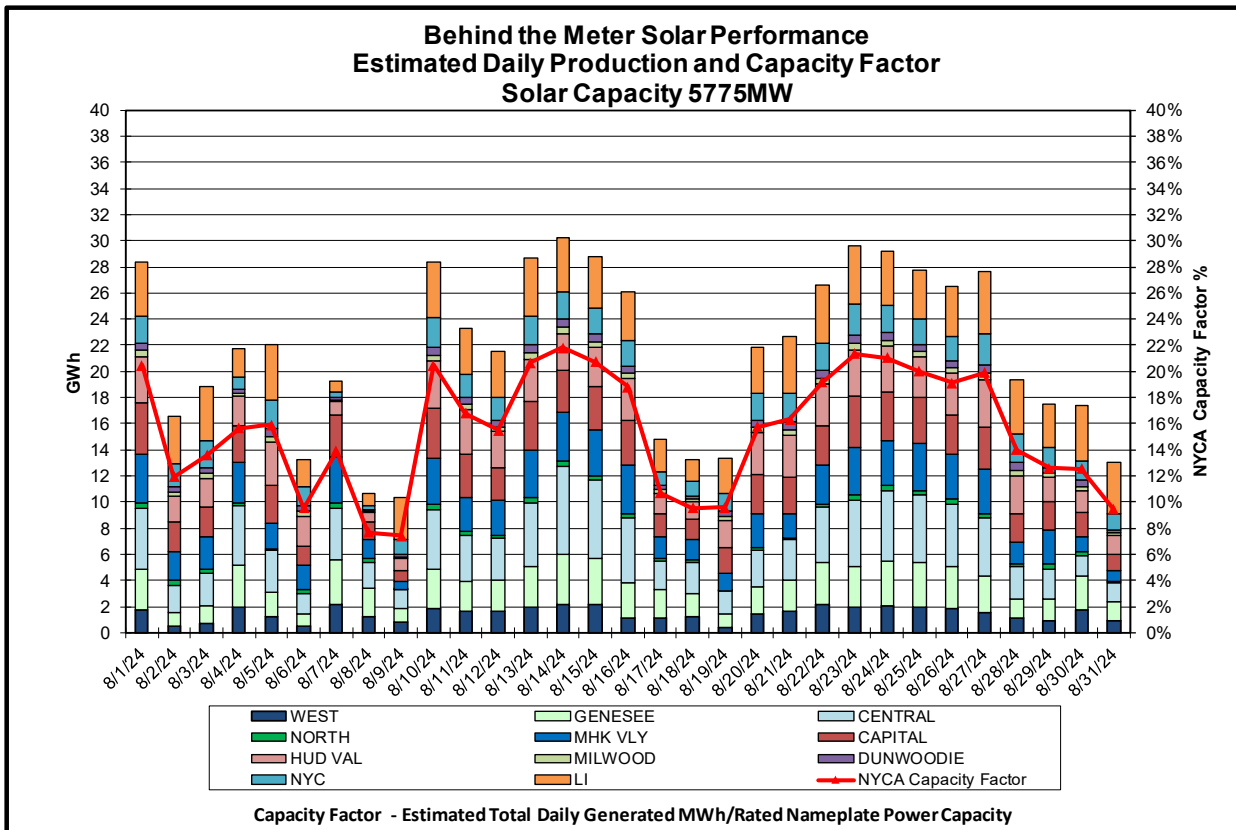
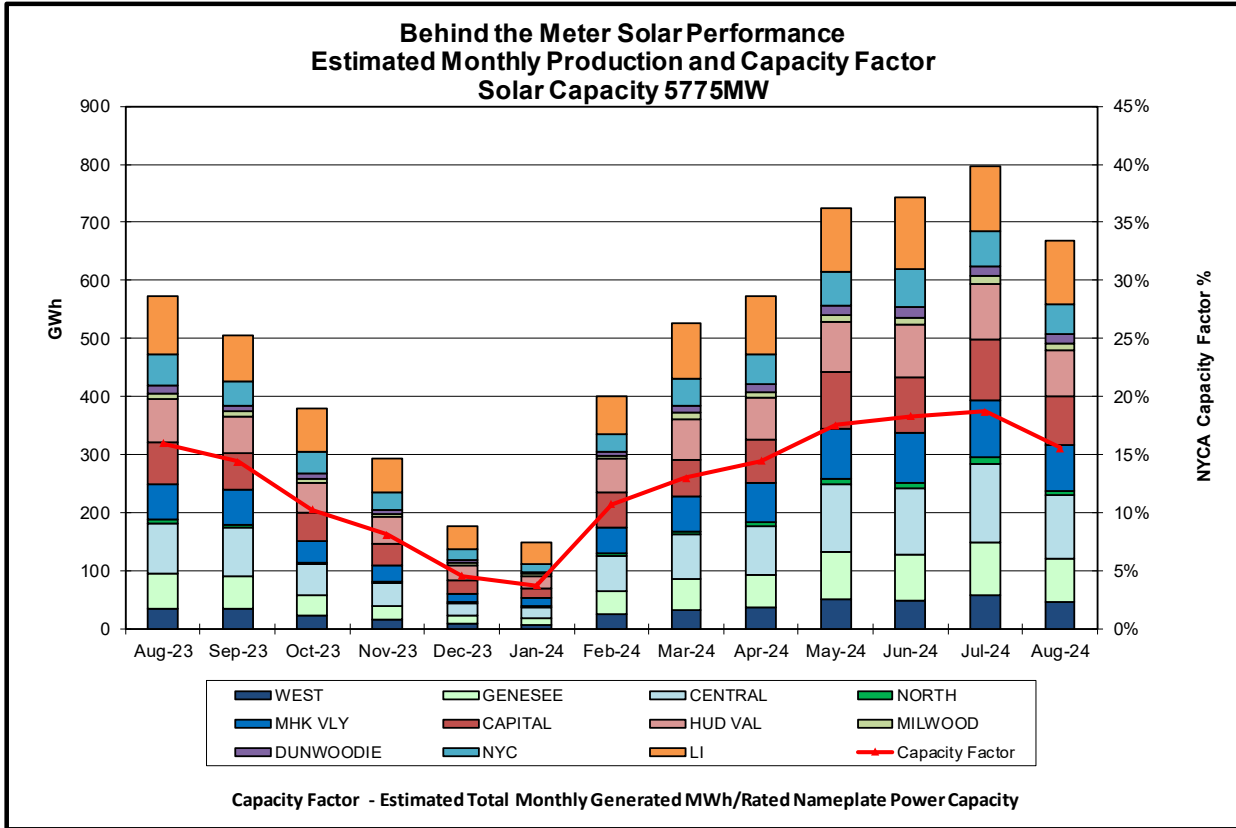


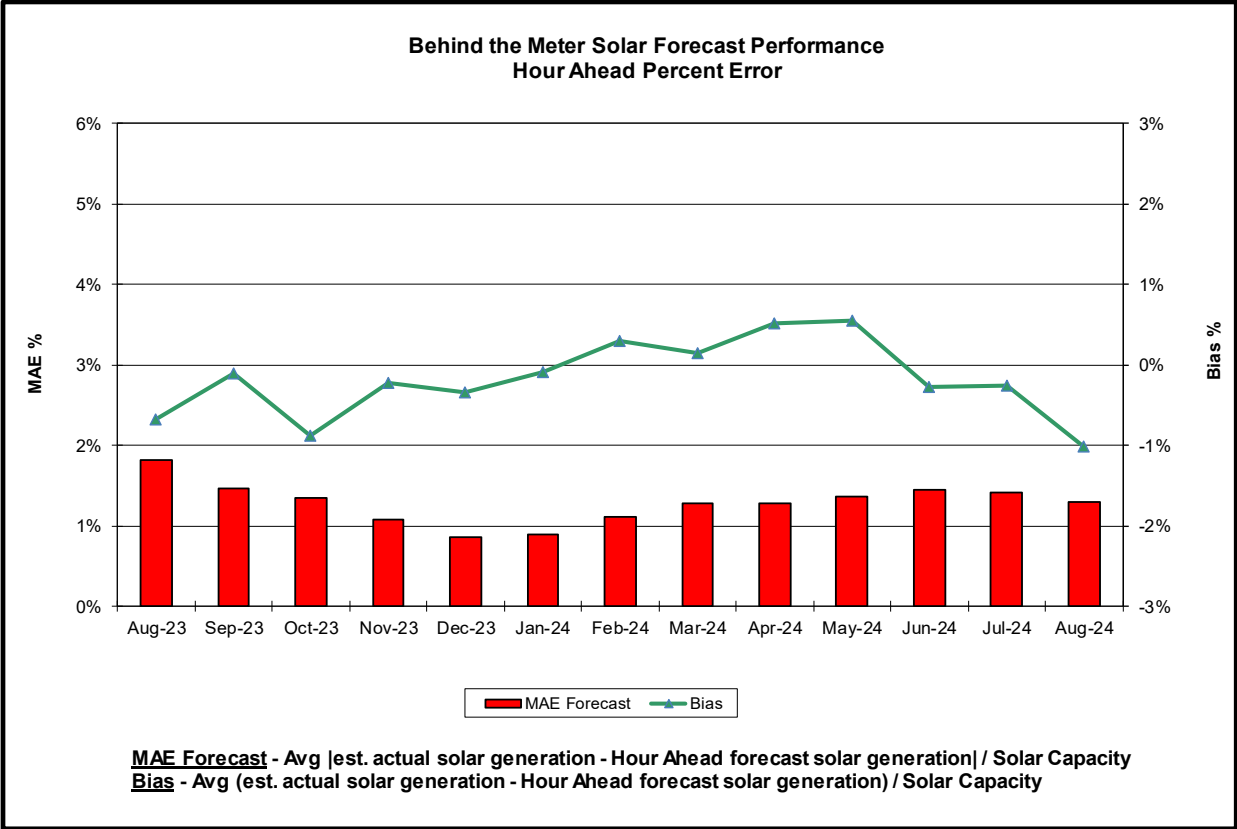
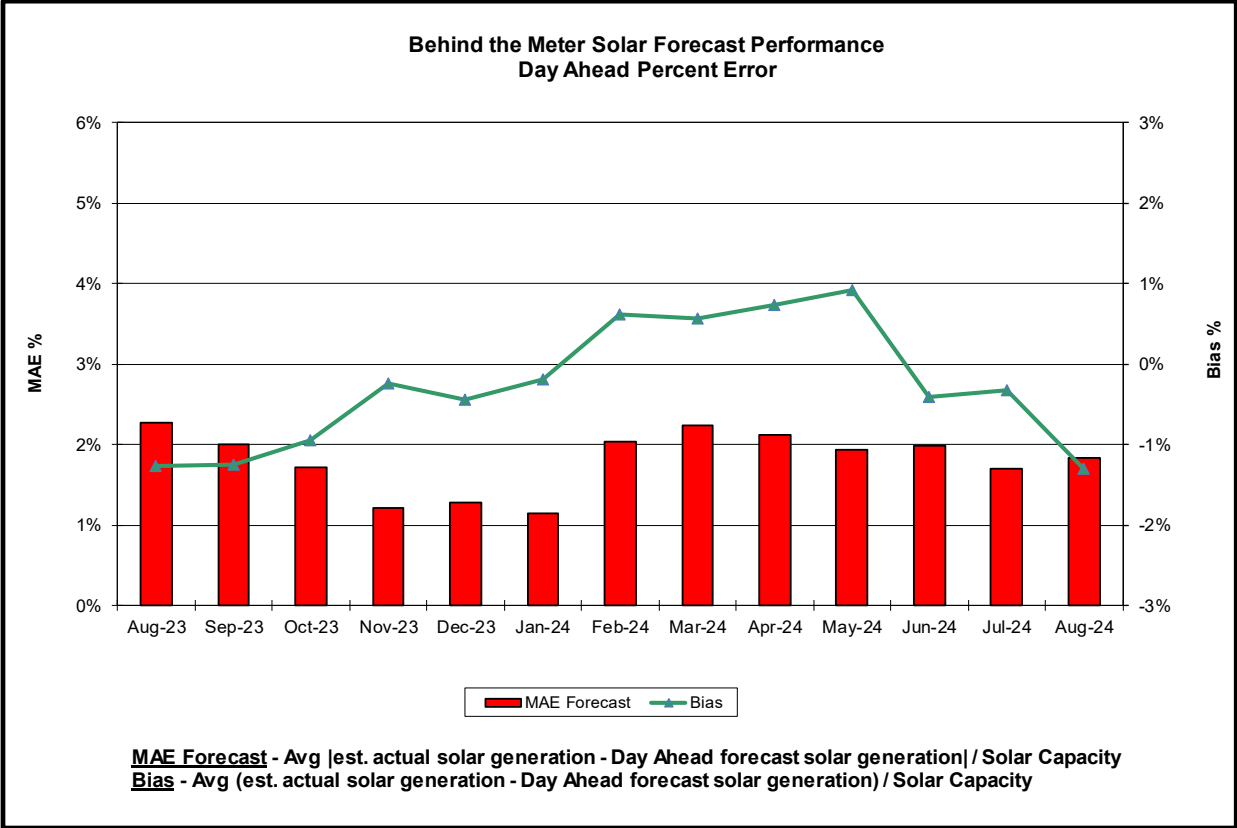


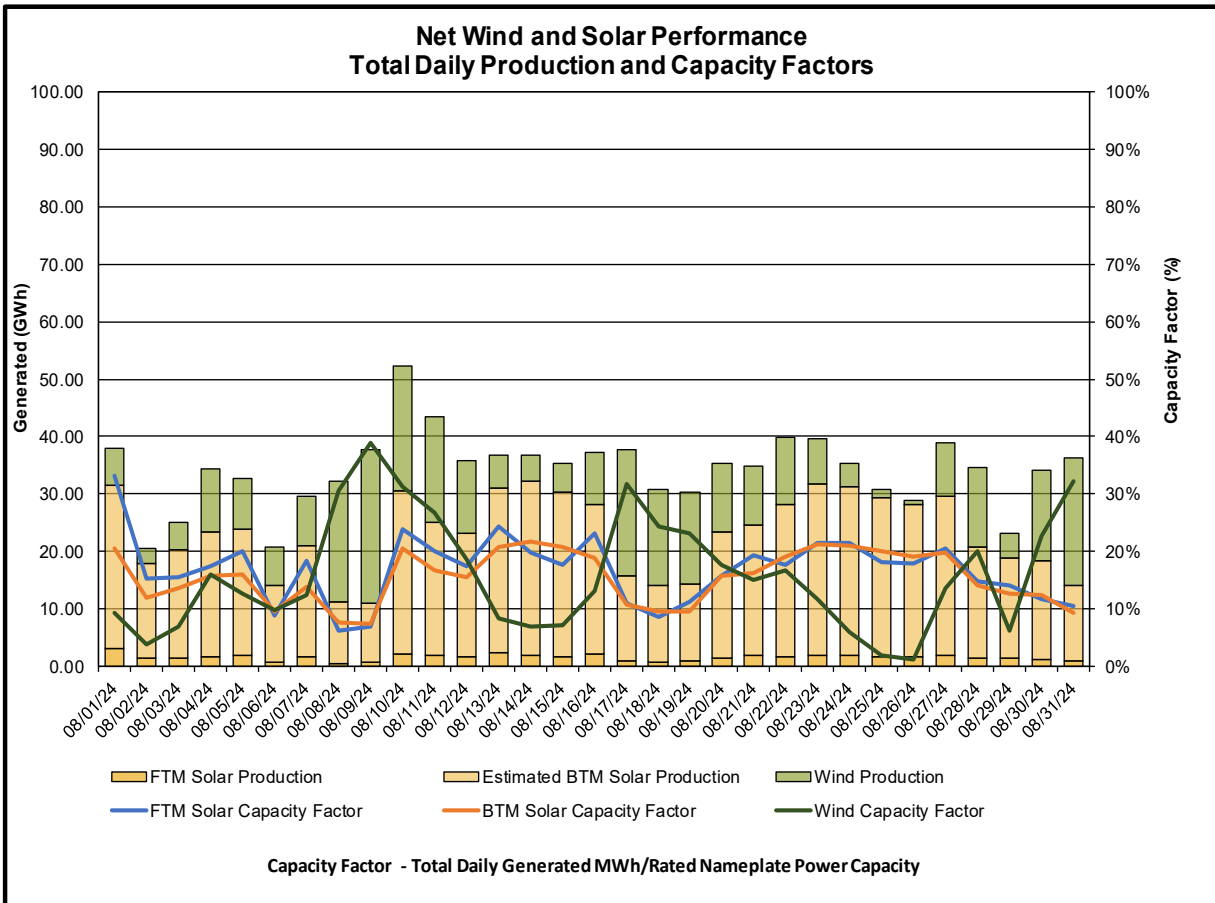
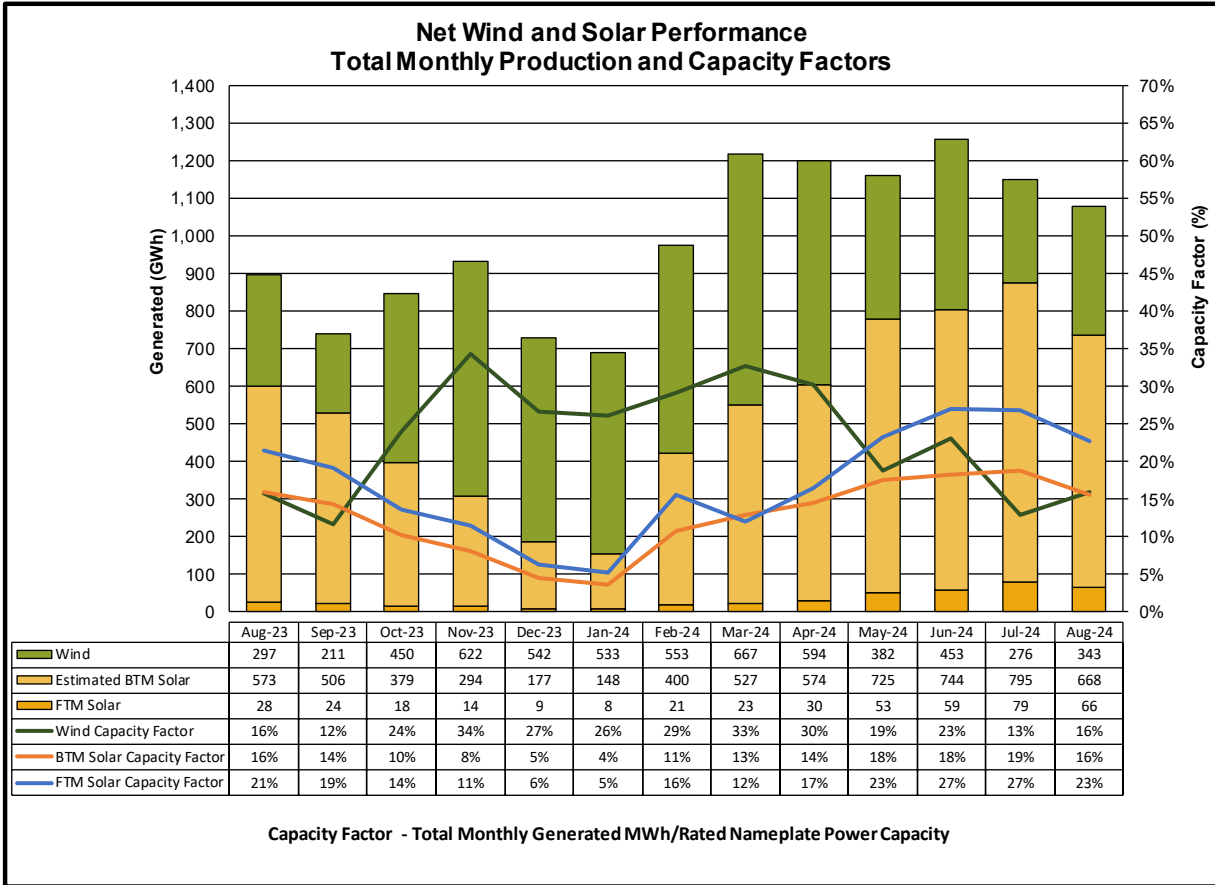


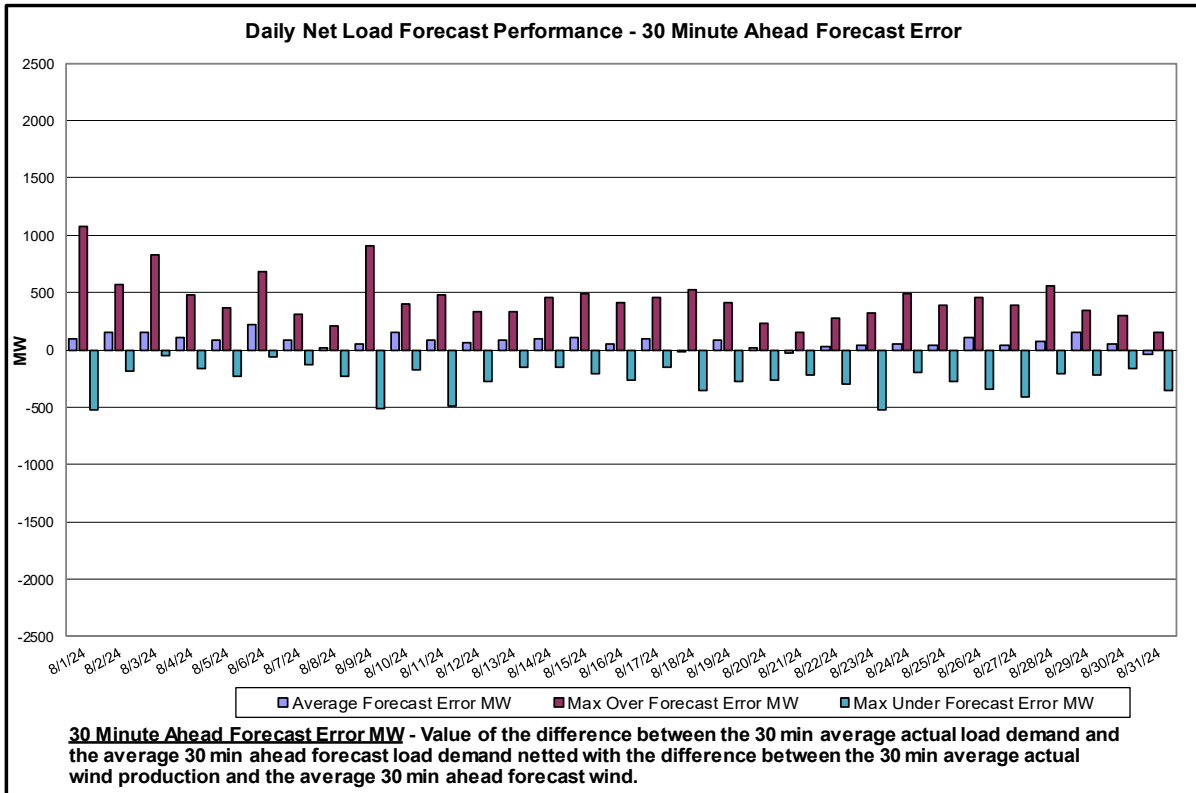
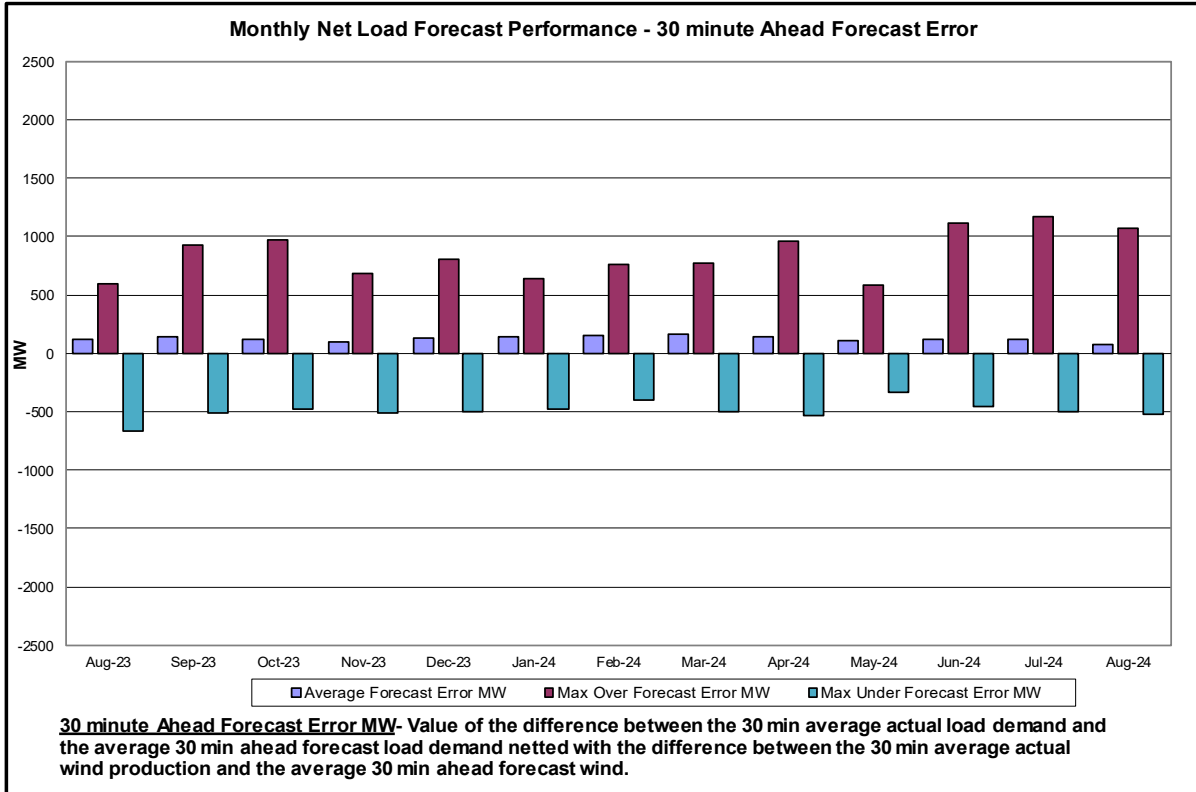


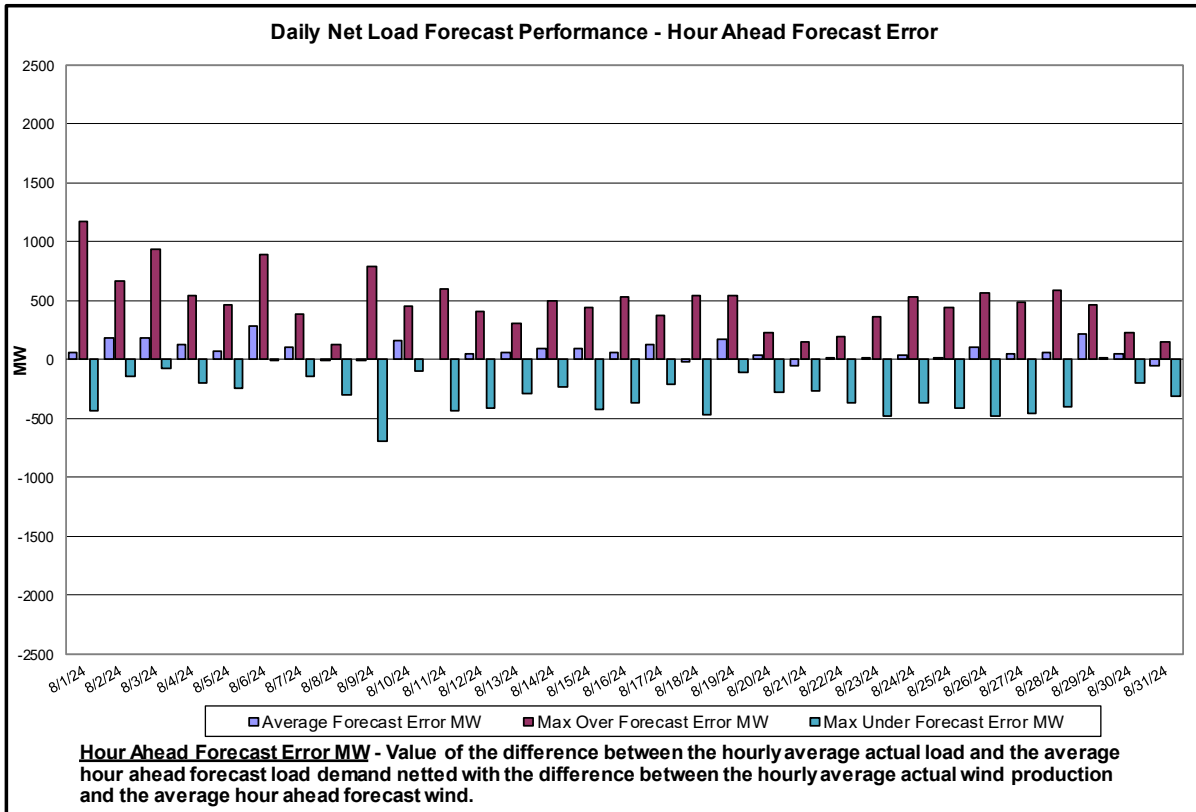
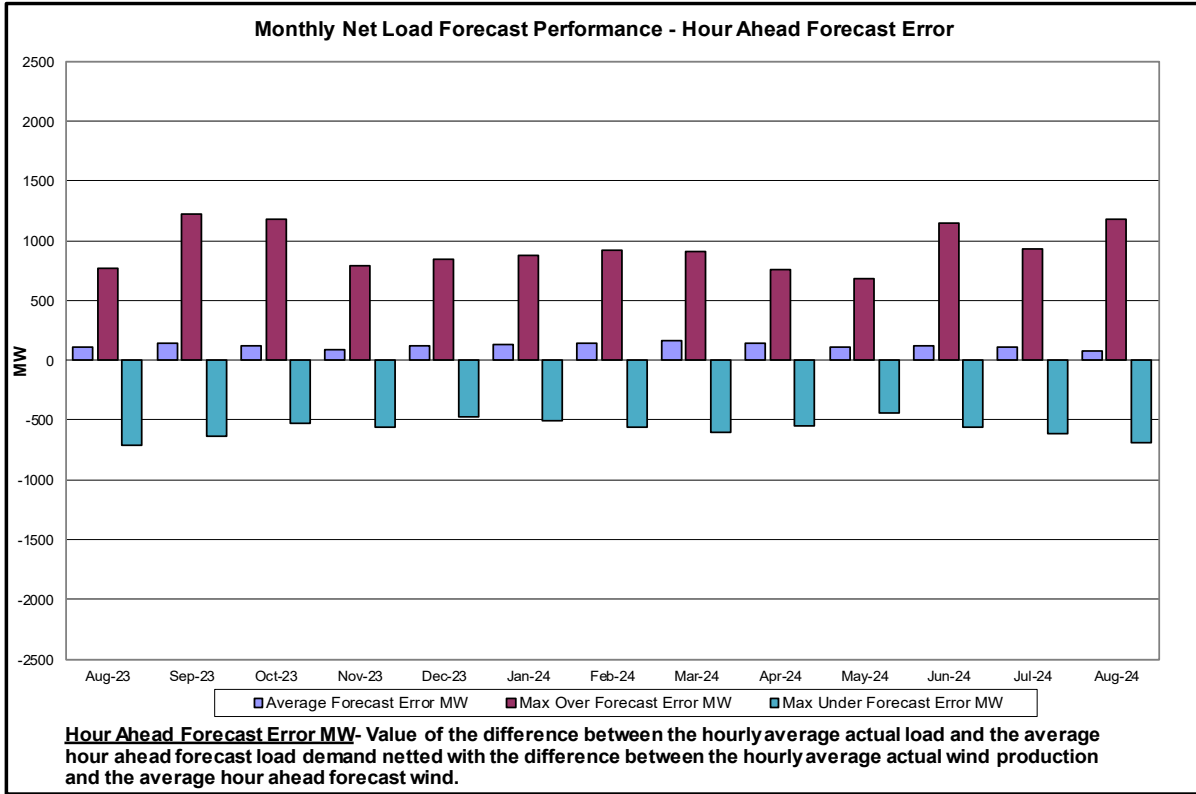


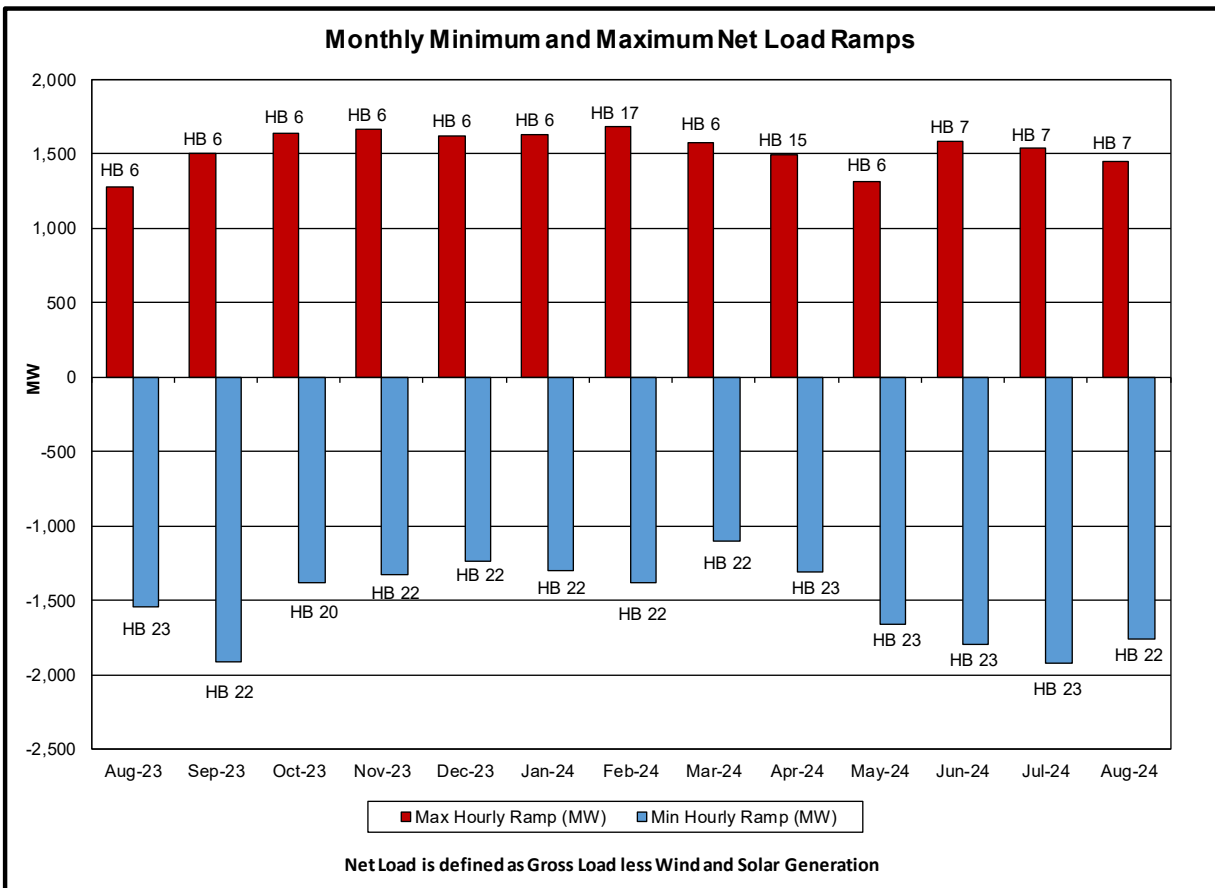
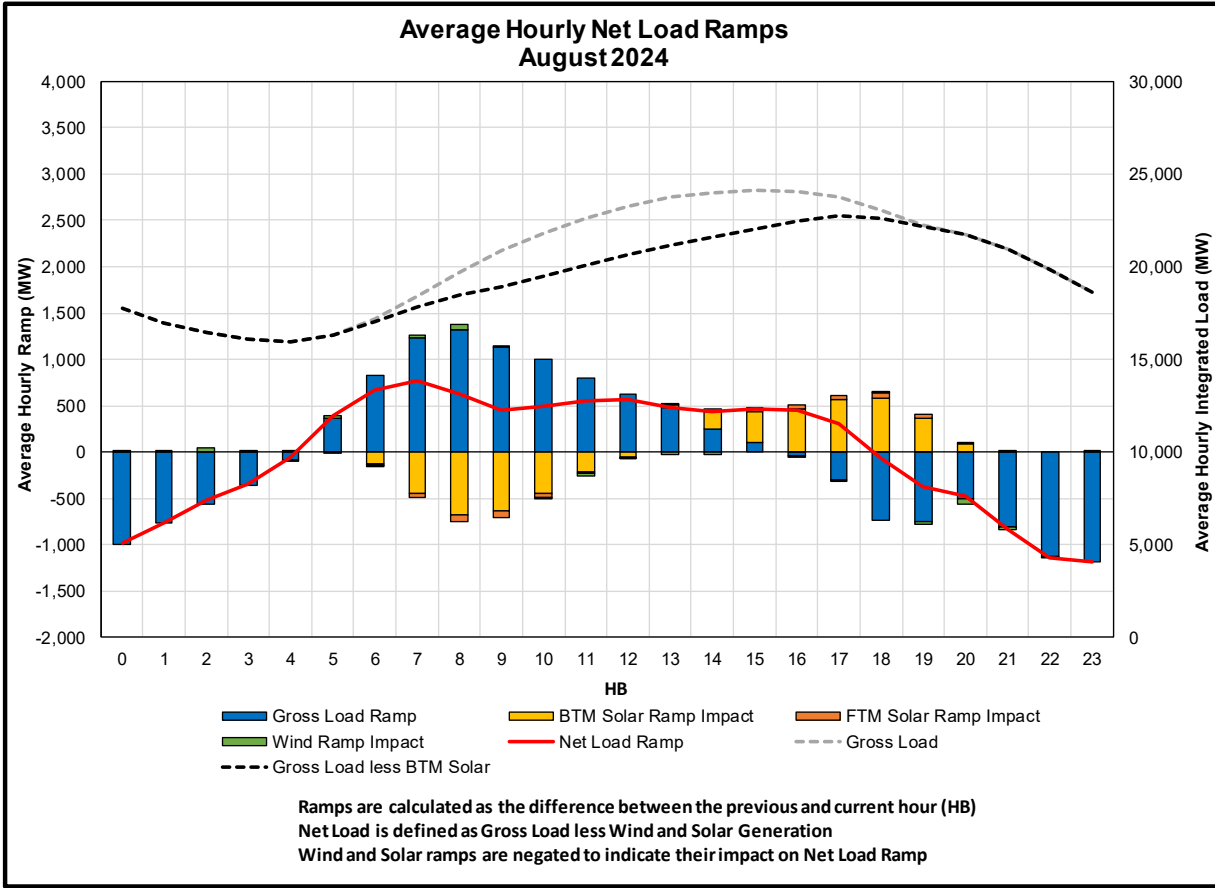


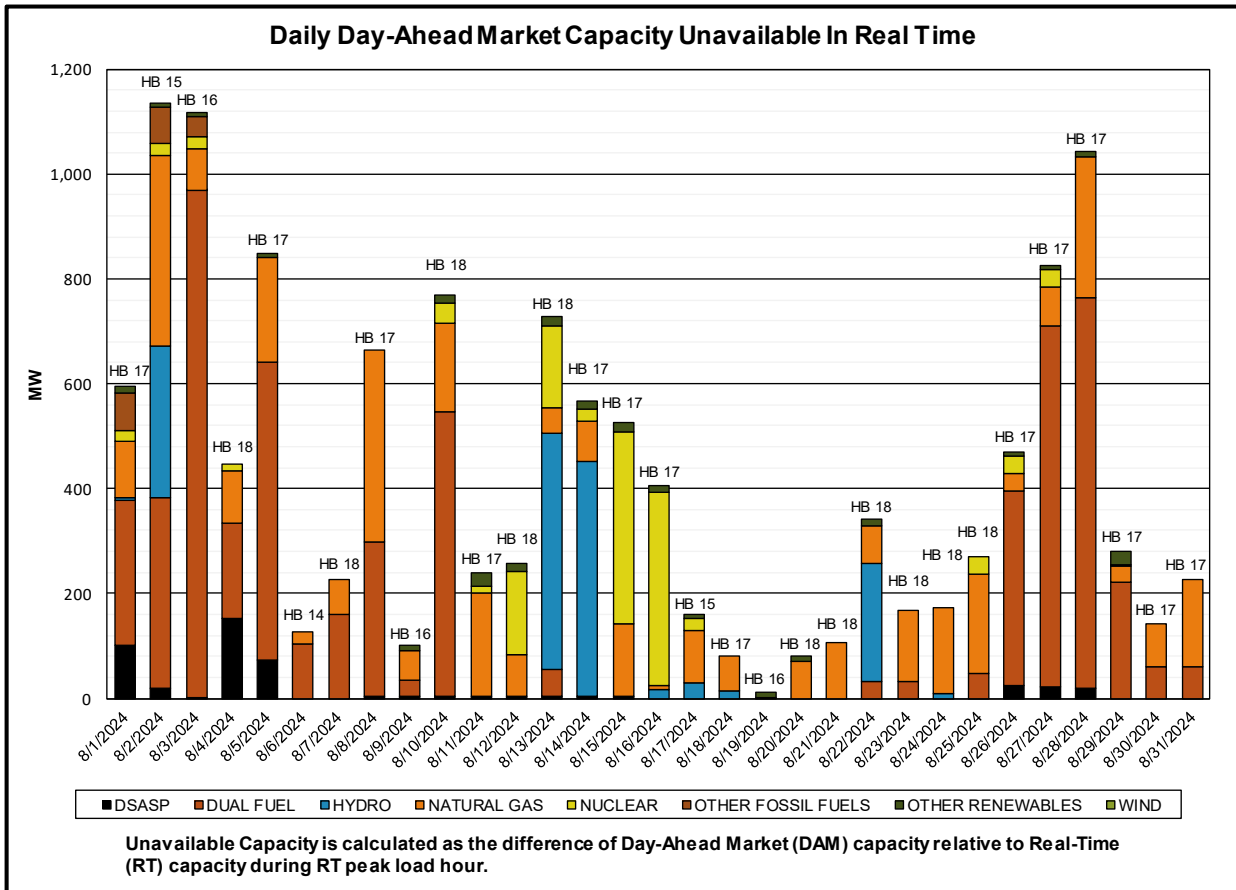
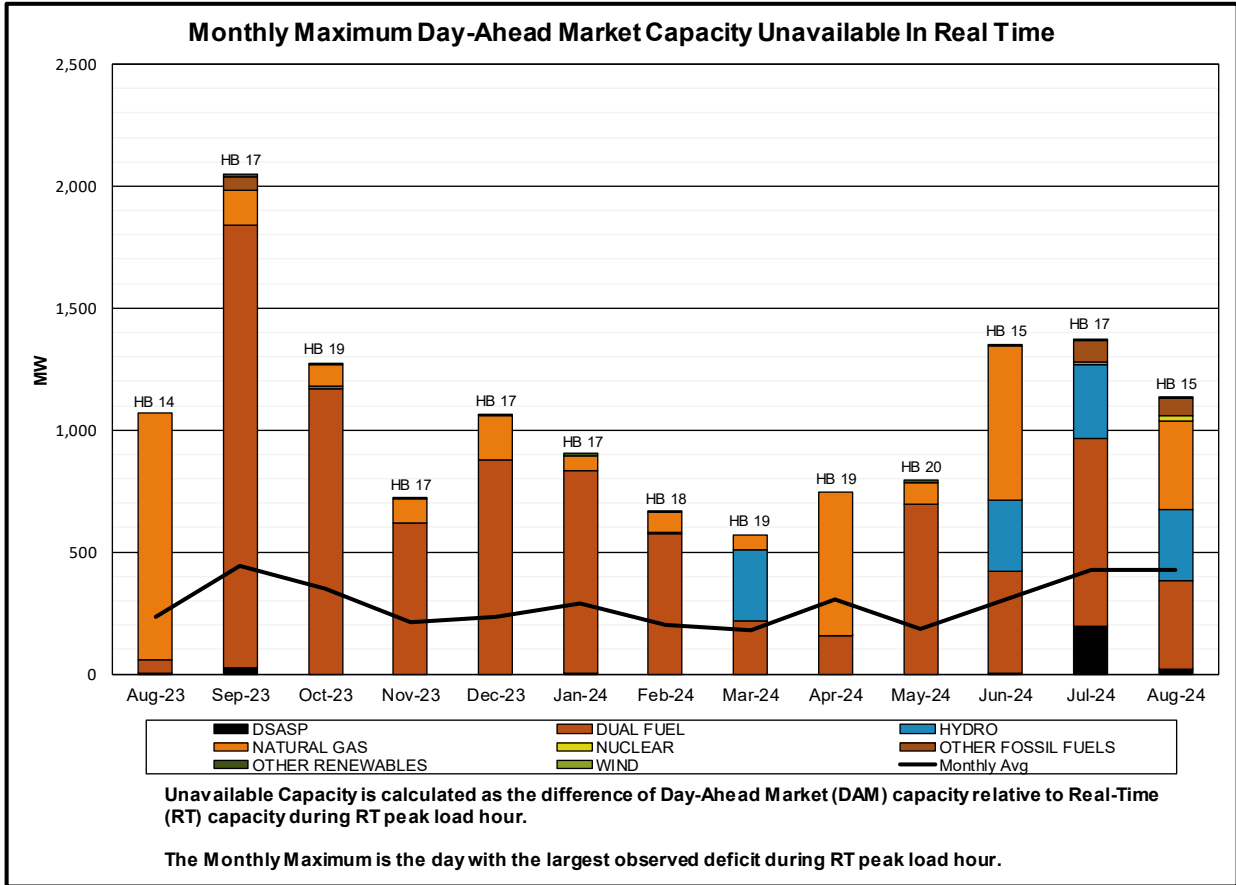


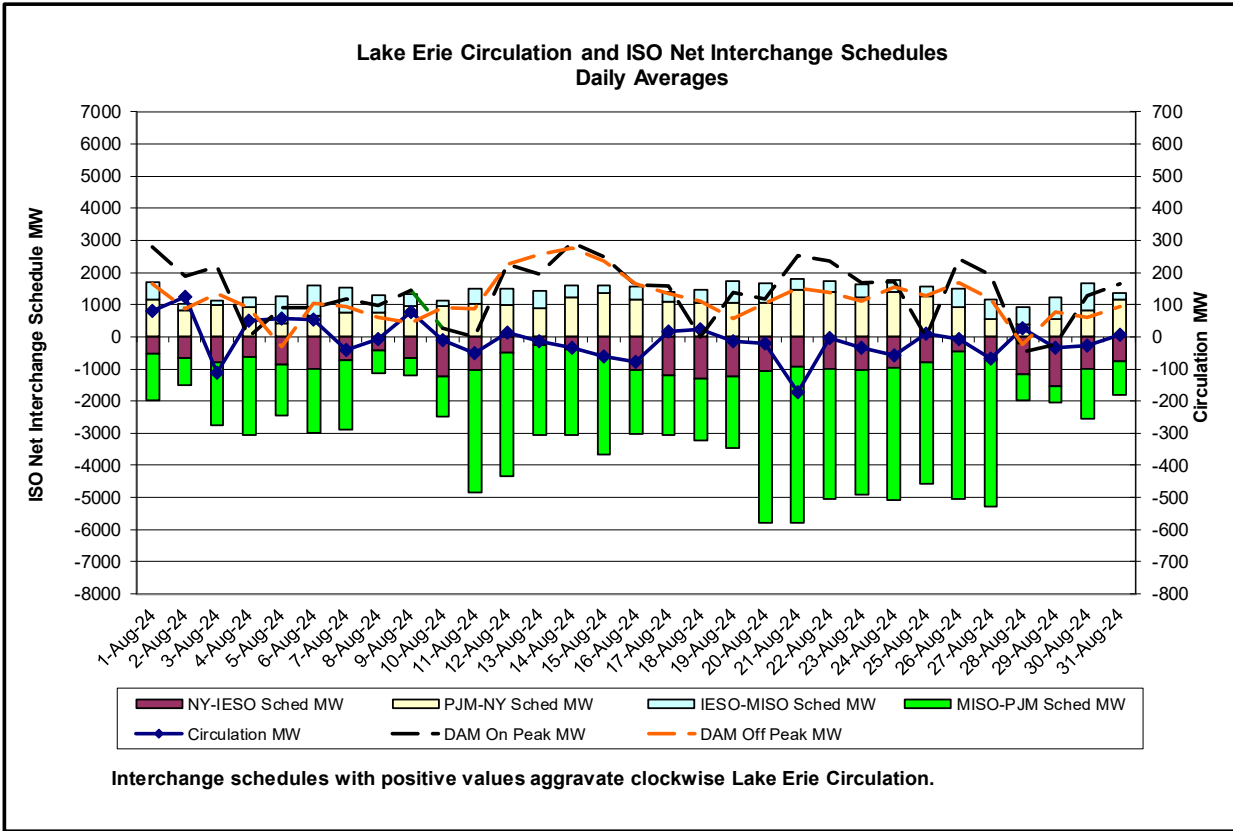
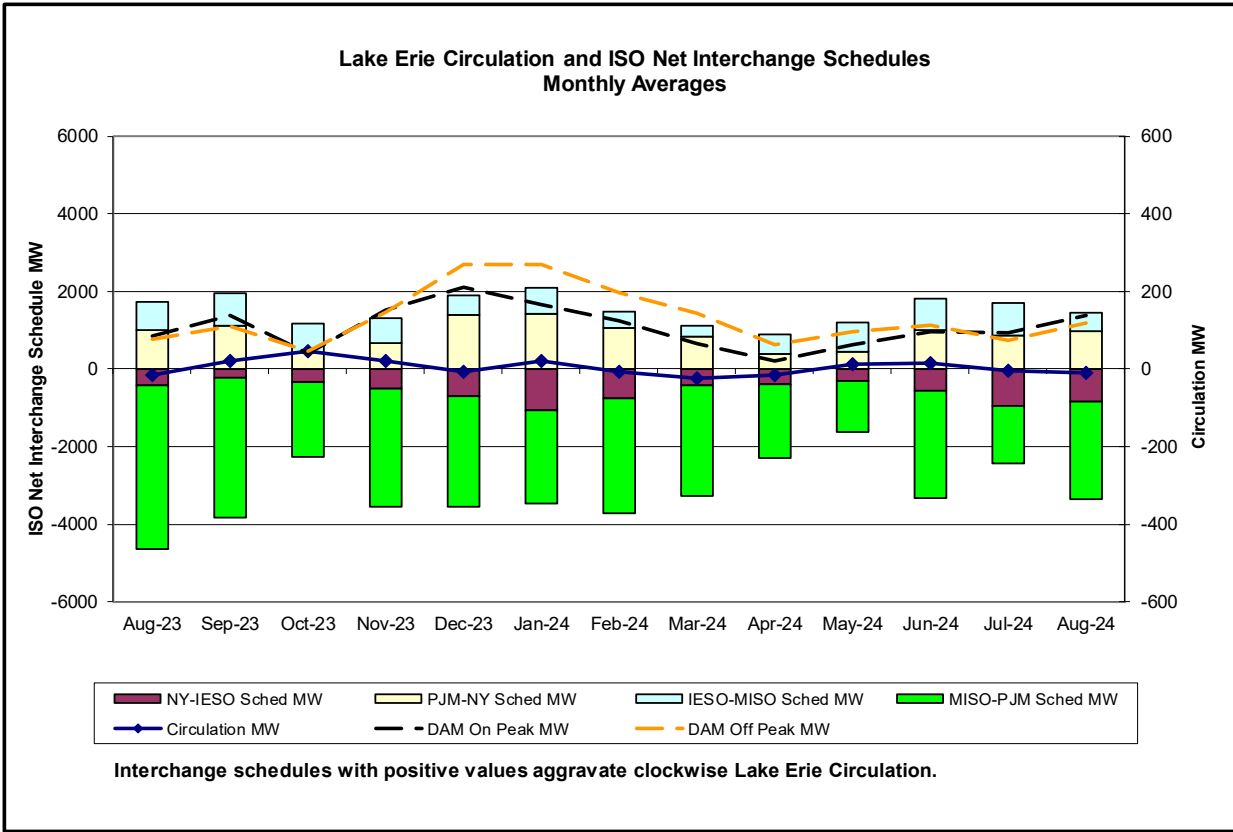




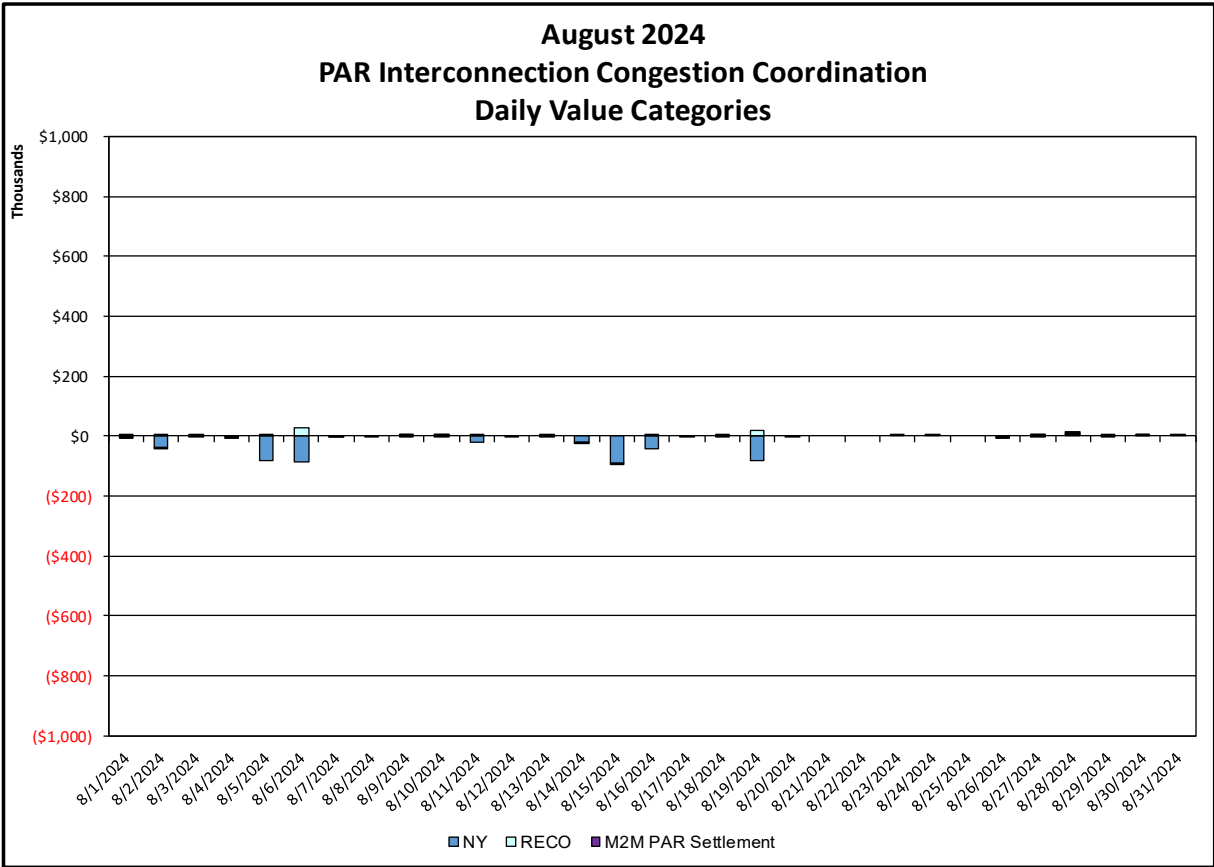
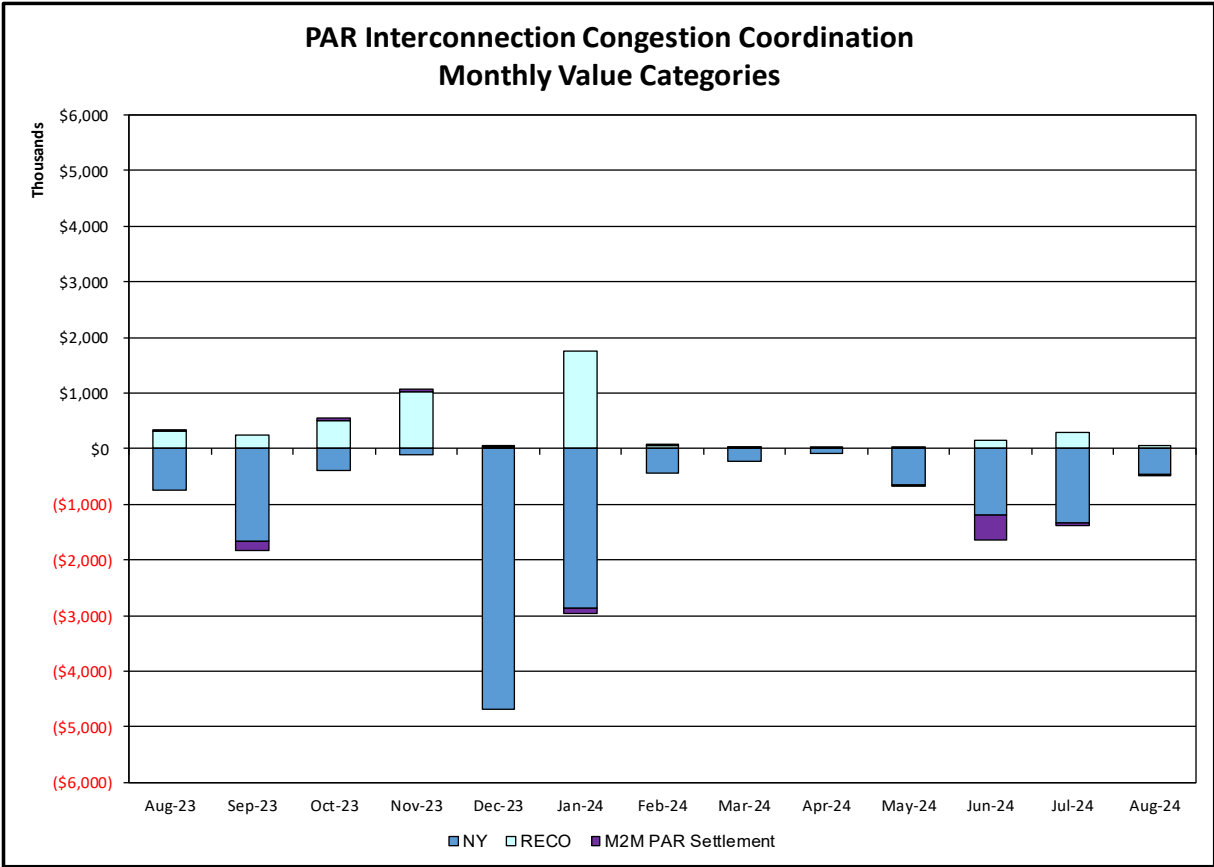






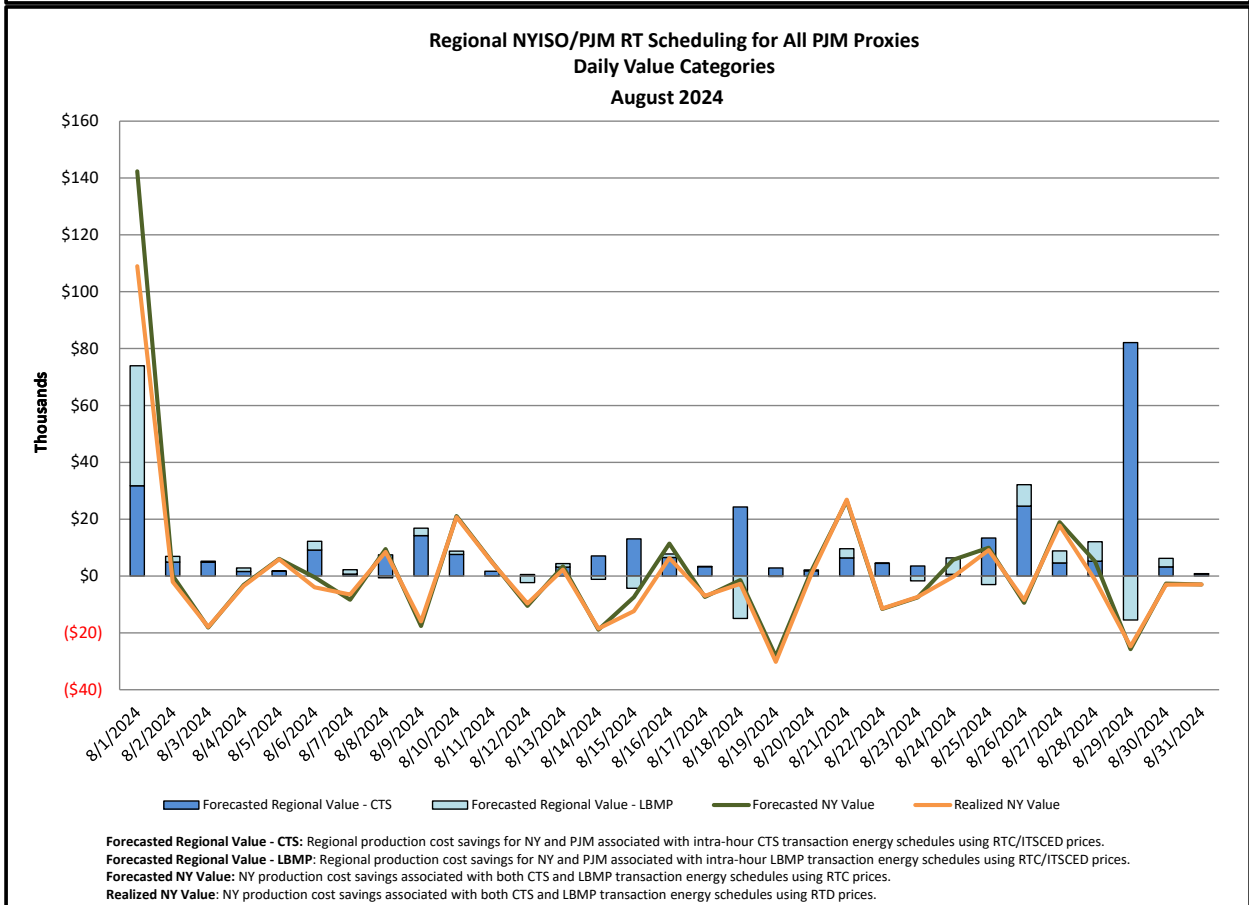
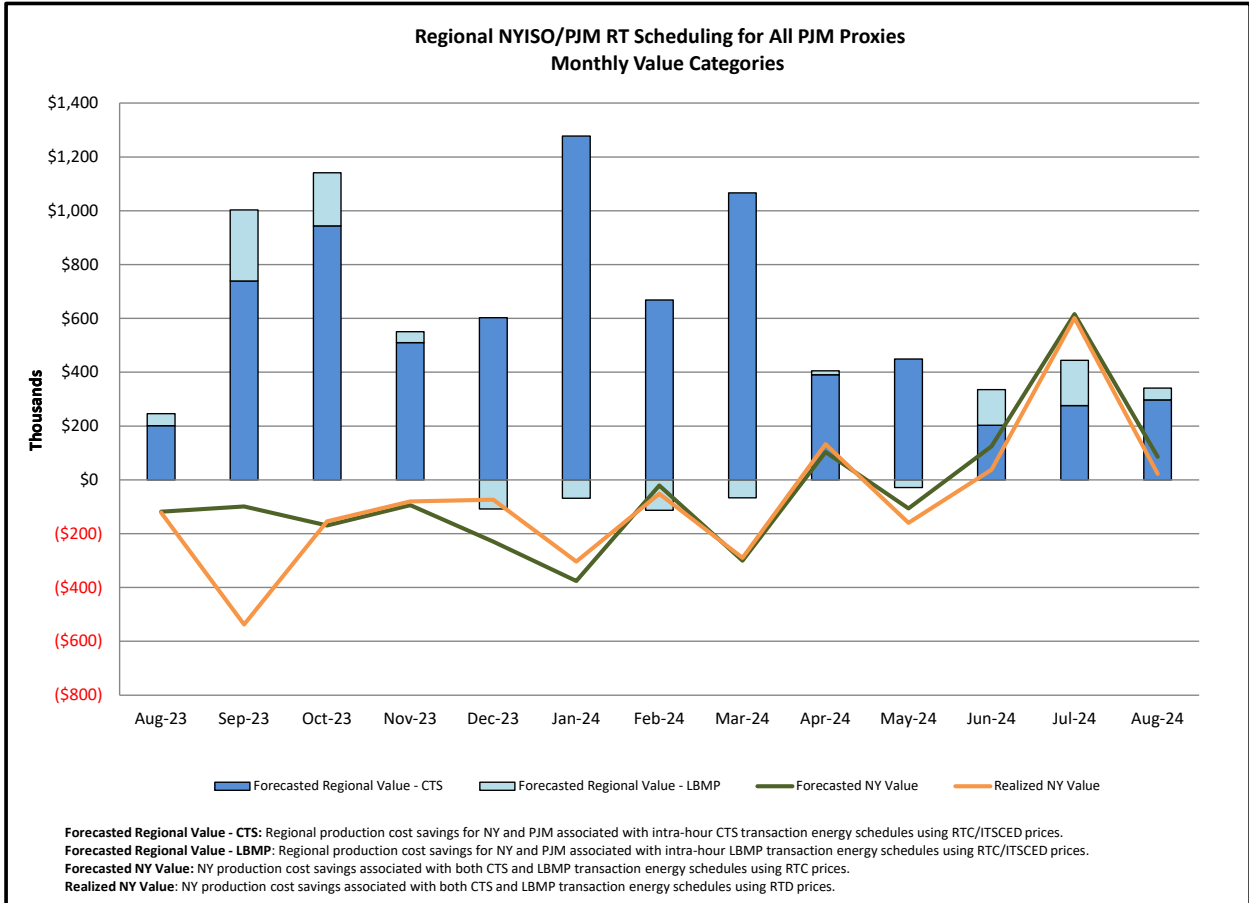


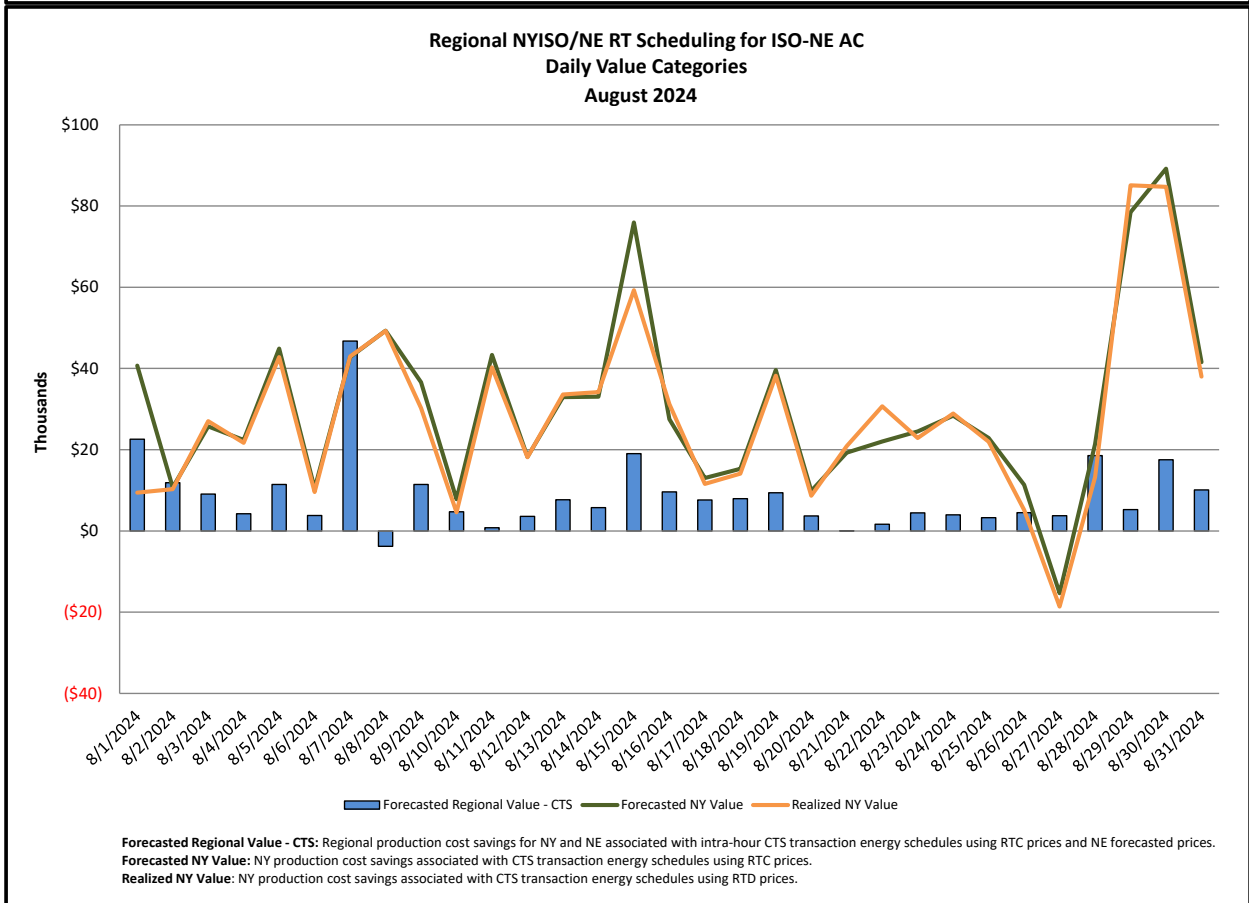
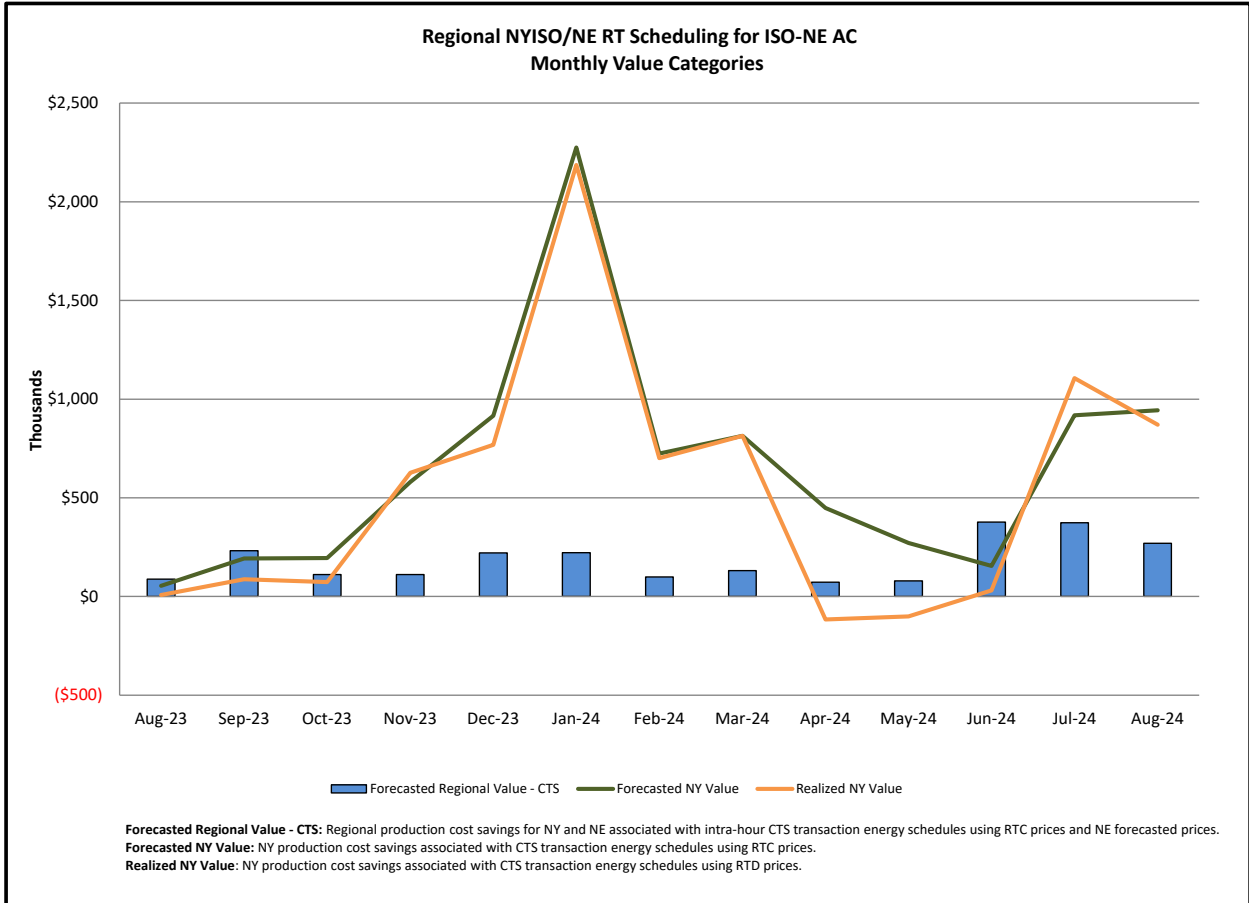
Broader Regional Market Performance Metrics



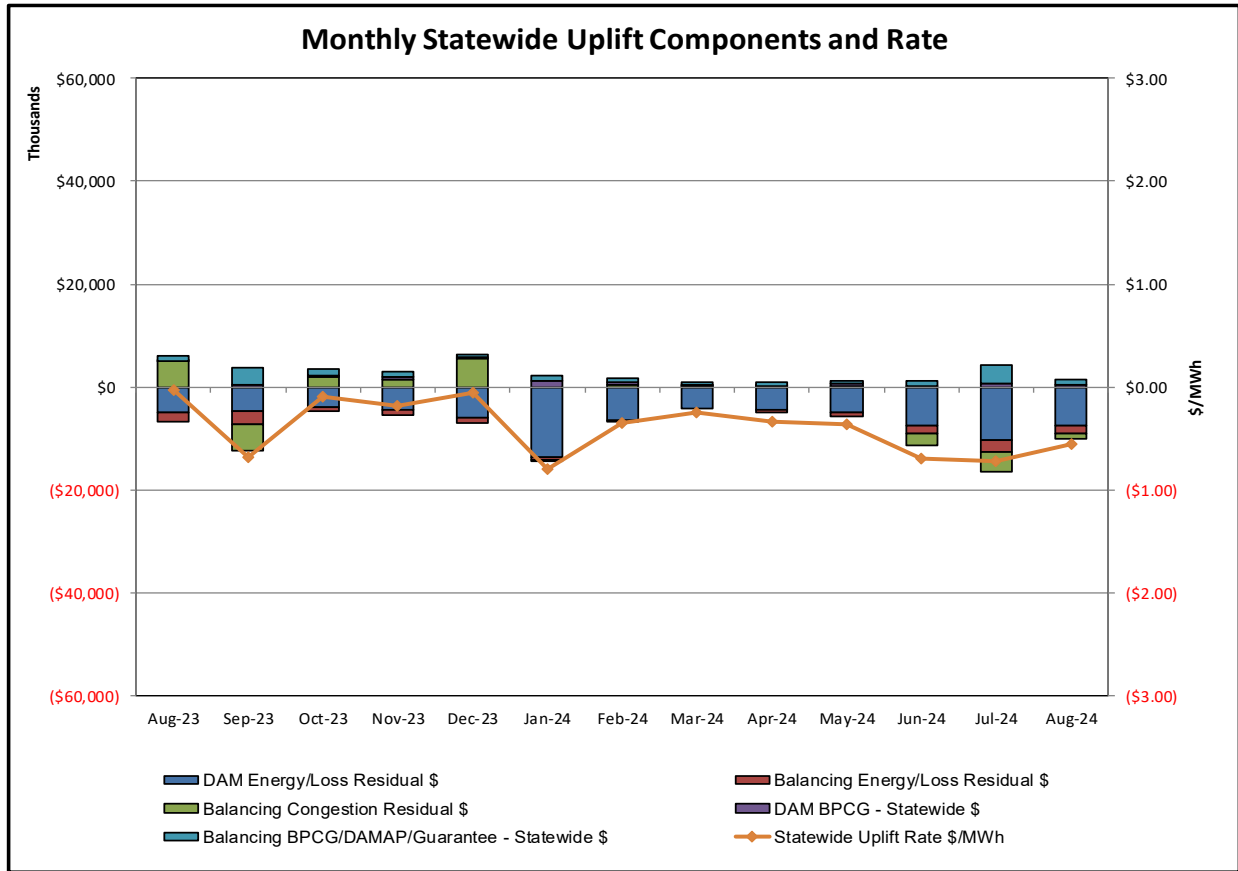
PAR Interconnection Congestion Coordination

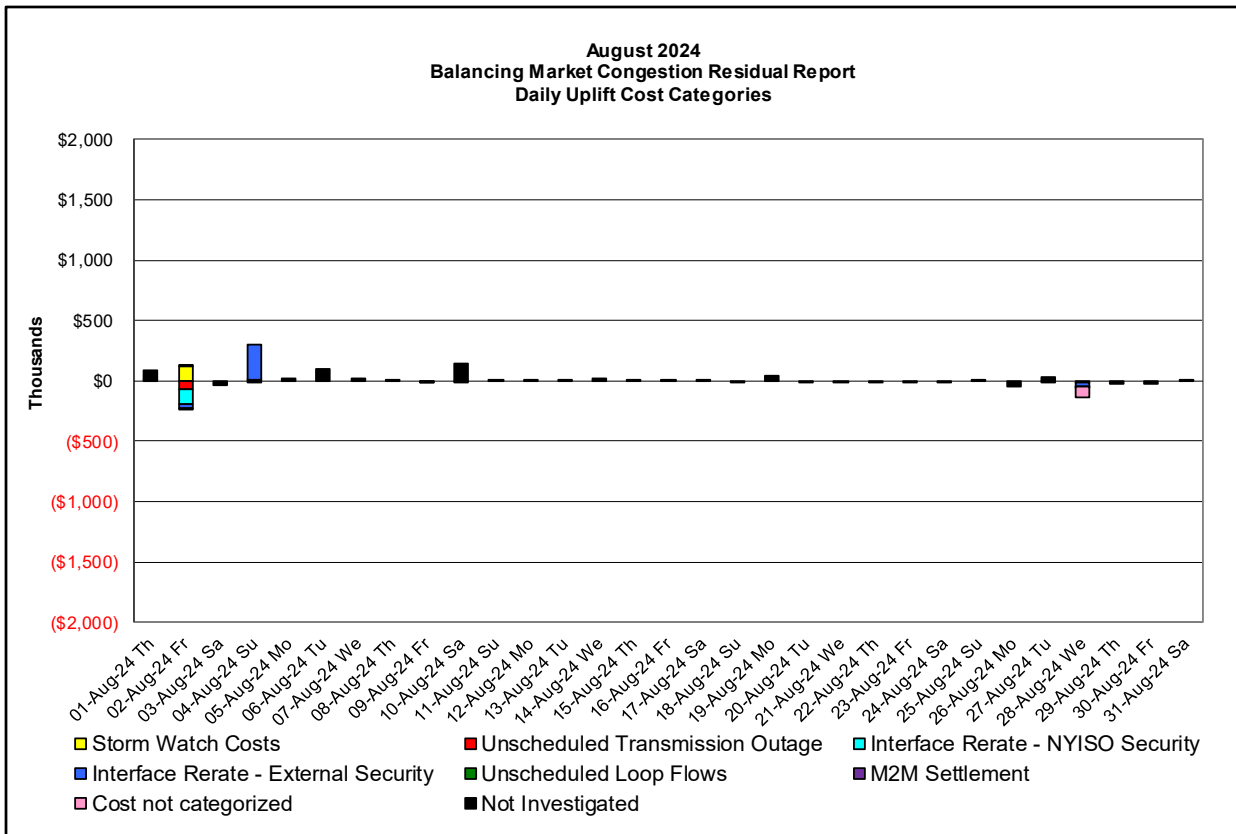
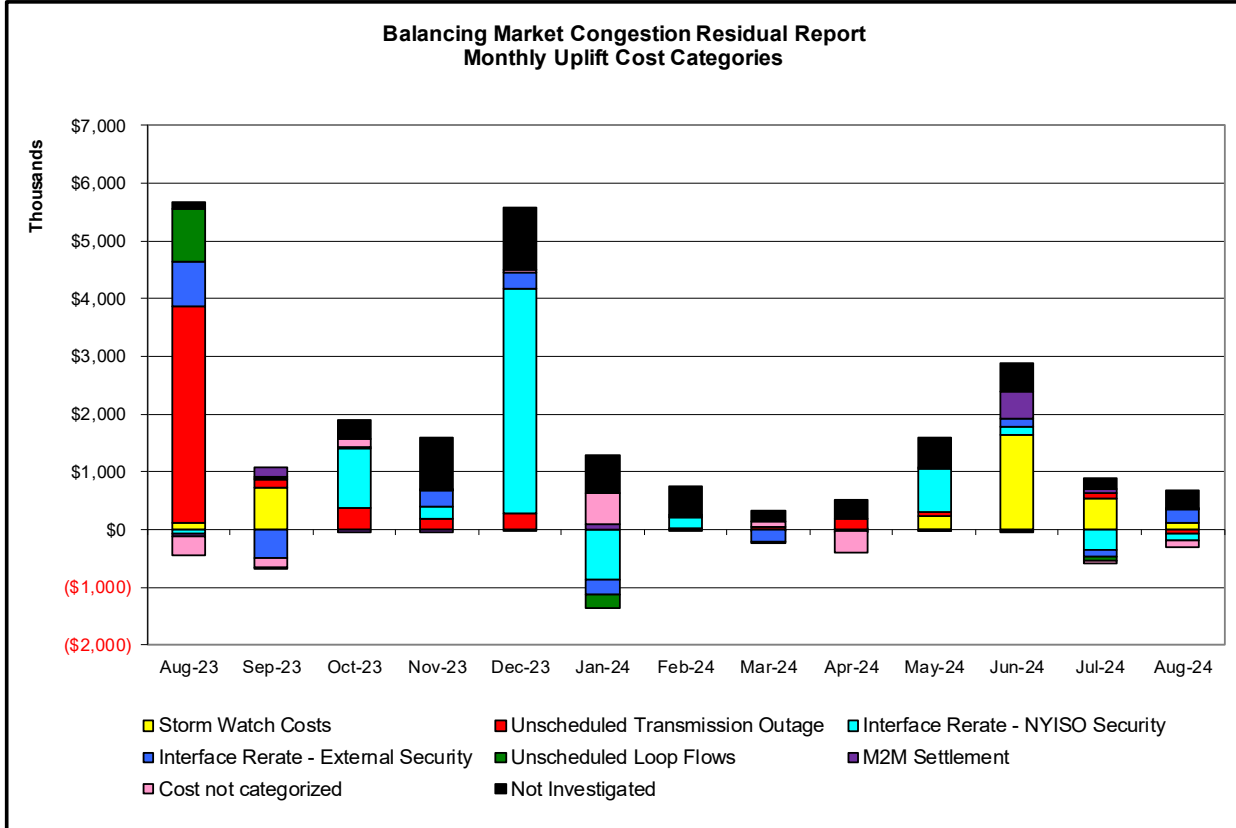
<u>Category</u>	<u>Description</u>
NY	Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY
RECO	Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 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.





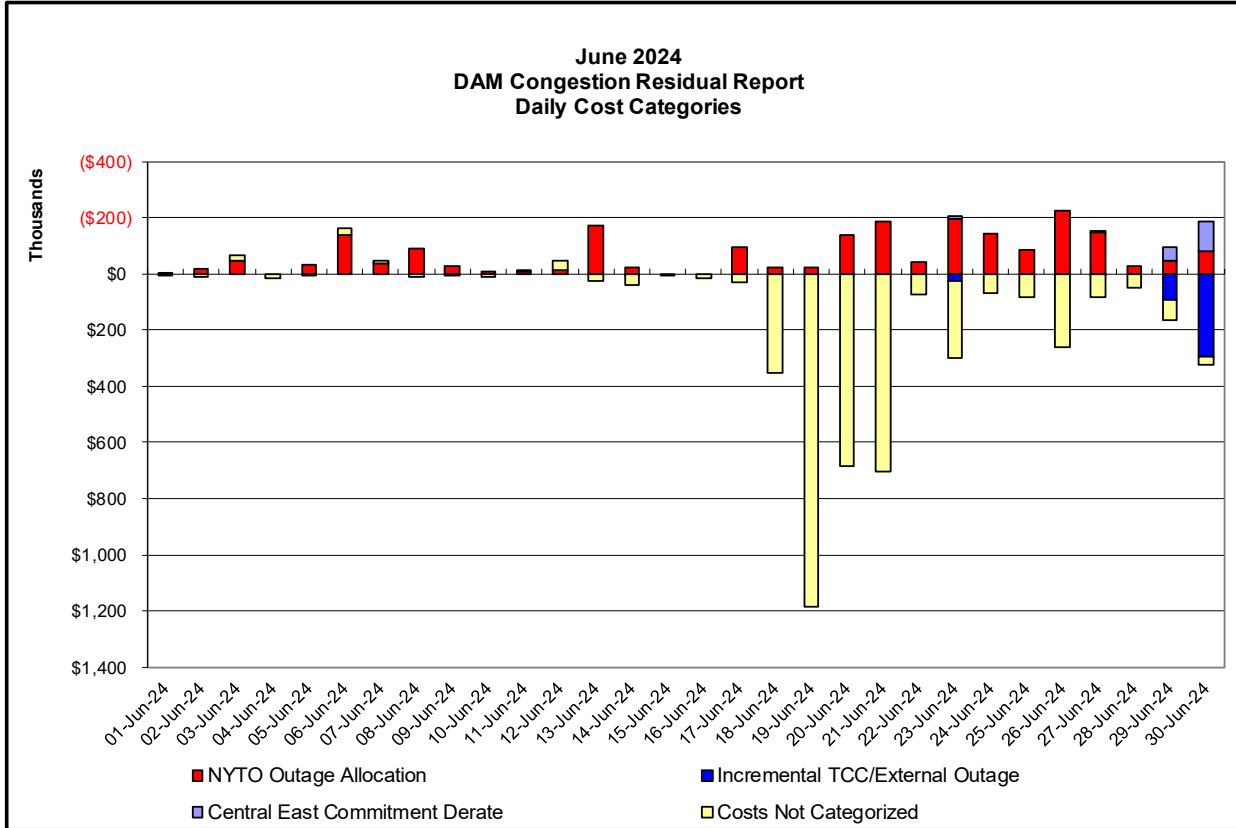
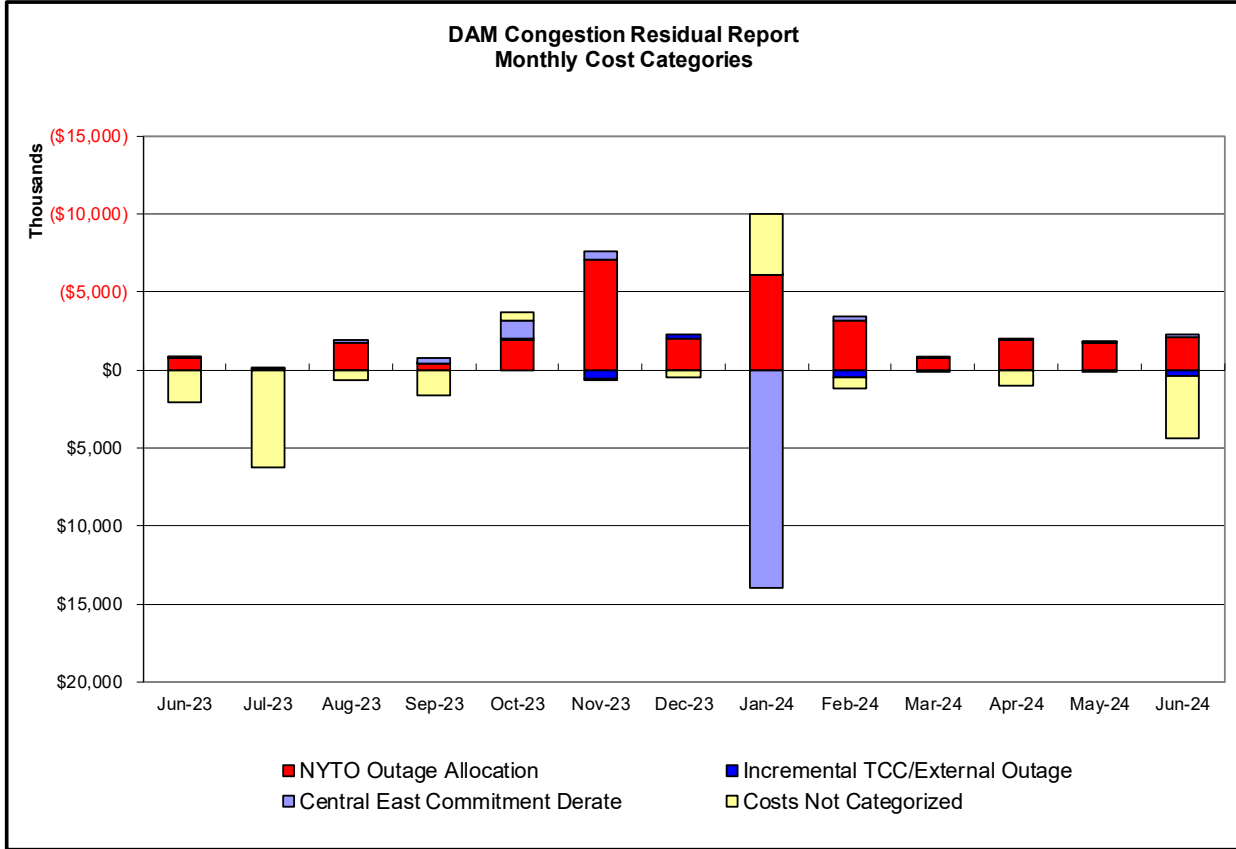
Market Performance Metrics





Days investigated in August: 2,4,28			
Event	Date (yyyymmdd)	Hours	Description
	8/2/2024	17-19	Thunder Storm Alert, Buchanan 345/138kV (#BK5)
	8/2/2024	10-13	Early Return to Service of Chases Lake-Porter 230kV (#11)
	8/2/2024	10-13	Uprate Freshkills 345/138kV (#TA1)
	8/2/2024	20,21	Uprate Astoria West-Helgate 138kV (#24051)
	8/2/2024	0,11-13,16,20	Uprate Scriba-Volney 345kV (#20) I/o Scriba-Volney 345kV (#21)
	8/2/2024	10,19	NYCA Active DNI Ramp Limit
	8/2/2024	16	NE AC - NY Scheduling Limit
	8/2/2024	23	IESO AC Active DNI Ramp Limit
	8/4/2024	7	NYCA Active DNI Ramp Limit
	8/4/2024	7	NE AC Active DNI Ramp Limit
	8/4/2024	3-7	NE AC - NY Scheduling Limit
	8/28/2024	15,20	NYCA Active DNI Ramp Limit
	8/28/2024	10,20	NE AC Active DNI Ramp Limit
	8/28/2024	15	PJM AC-NY Scheduling Limit

Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories			
<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
Storm Watch	Zone J	Thunderstorm Alert (TSA)	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	
<u>Monthly Balancing Market Congestion Report Assumptions/Notes</u>			
<p>1) Storm Watch Costs are identified as daily total uplift costs</p> <p>2) 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.</p> <p>3) Uplift costs associated with multiple event types are apportioned equally by hour</p>			



Day-Ahead Market Congestion Residual Categories

<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service 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.	

