

Operations Performance Metrics Monthly Report



April 2025 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 May 8, 2025.

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April 2025 Operations Performance Highlights

Monthly Peak Load	Monthly Minimum Load	Winter 2024-2025 Peak	All-time Winter Peak
04/08/2025 HB 20 18,836 MW	04/20/2025 HB 14 11,061 MW	01/22/2025 HB 18 23,521 MW	01/07/2014 HB 18 25,738 MW

- 10.0 hours of Thunderstorm Alerts were declared
- 0.0 hours of NERC TLR level 3 curtailment
- Forced transmission outages in Zone J Greenwood/Staten Island pocket resulted in increased uplift costs through April 20th when the Gowanus-Greenwood 138kV (#42231) returned to service.

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	6,292 MW	571 MW	105 MW

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

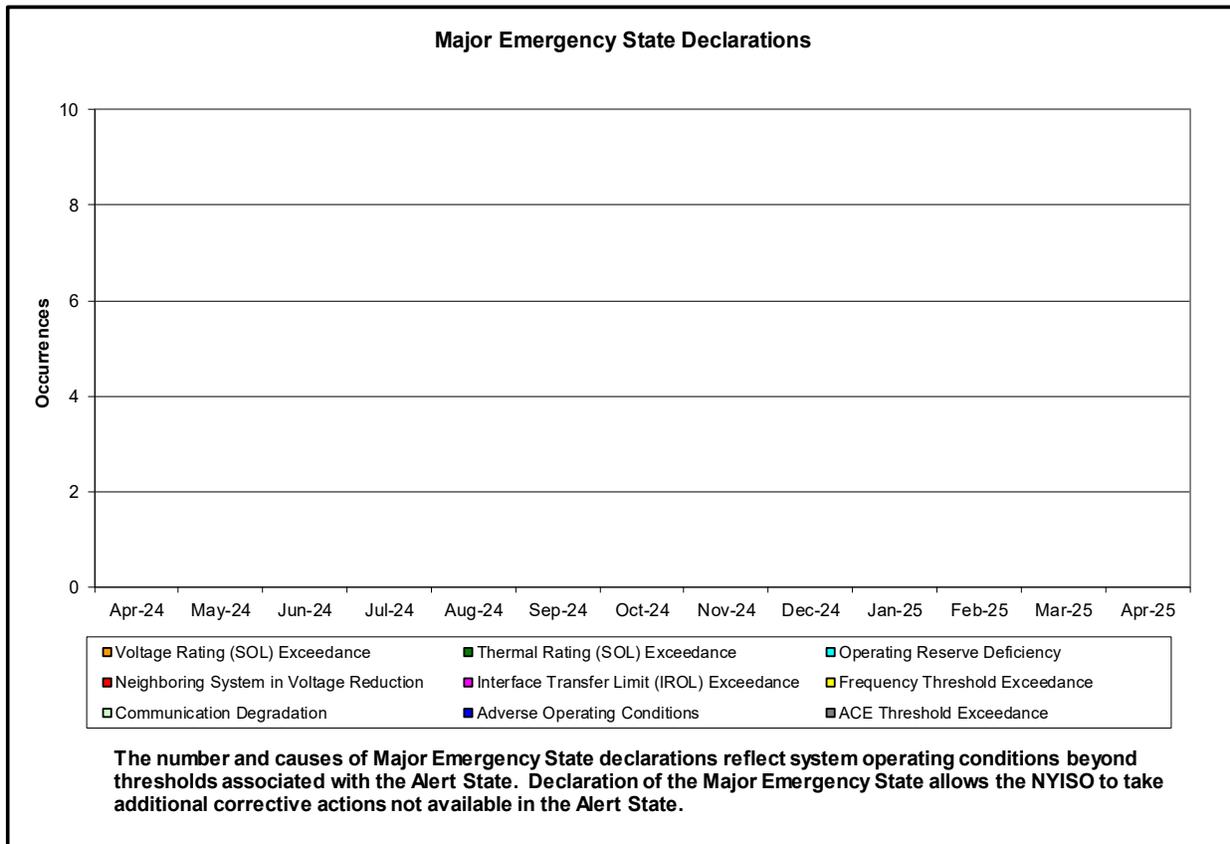
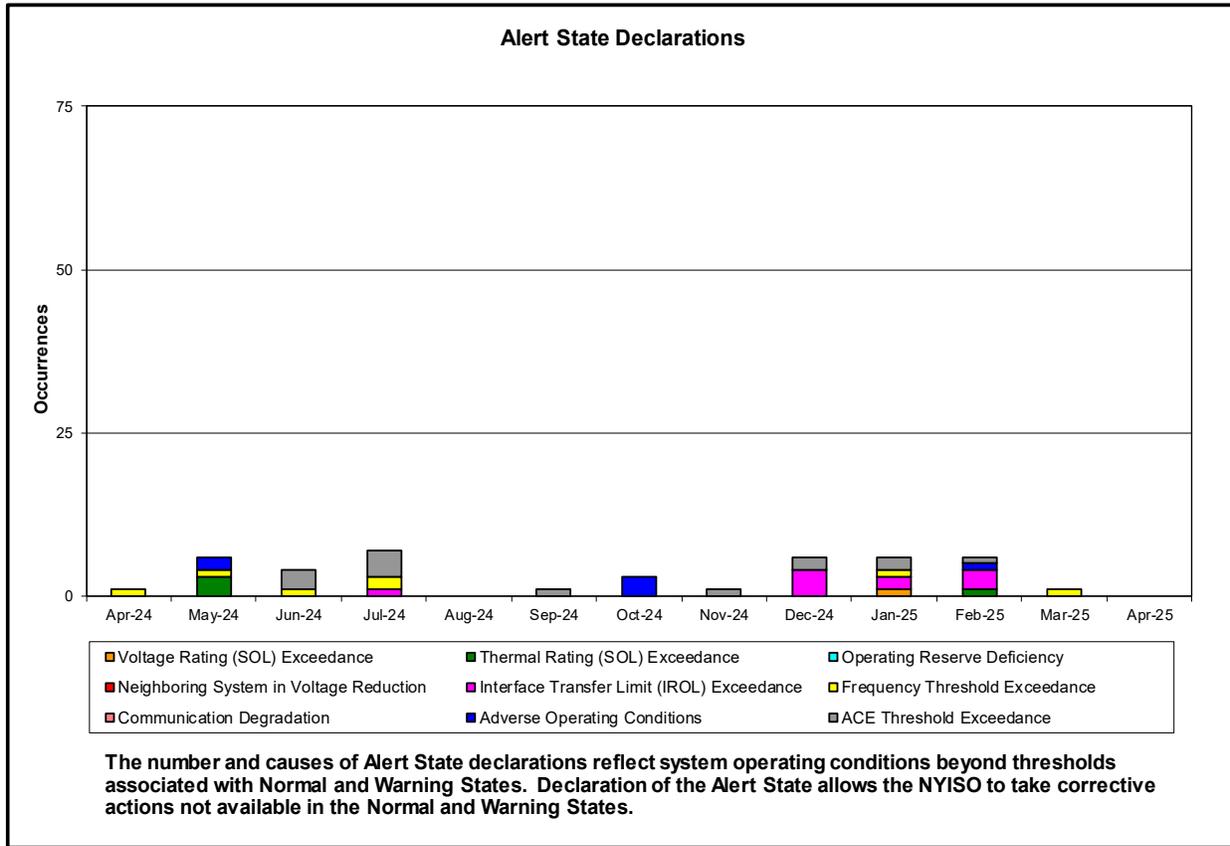
	Current Month Value (\$M)	Year-to-Date Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$0.40	\$0.74
NY Savings from PJM-NY Coordinated Transaction Scheduling	\$0.37	\$2.17
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.92	\$9.15
Total NY Savings	\$1.69	\$12.06
Regional Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.11)	\$2.87
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.16	\$0.88
Total Regional Savings	\$0.05	\$3.75

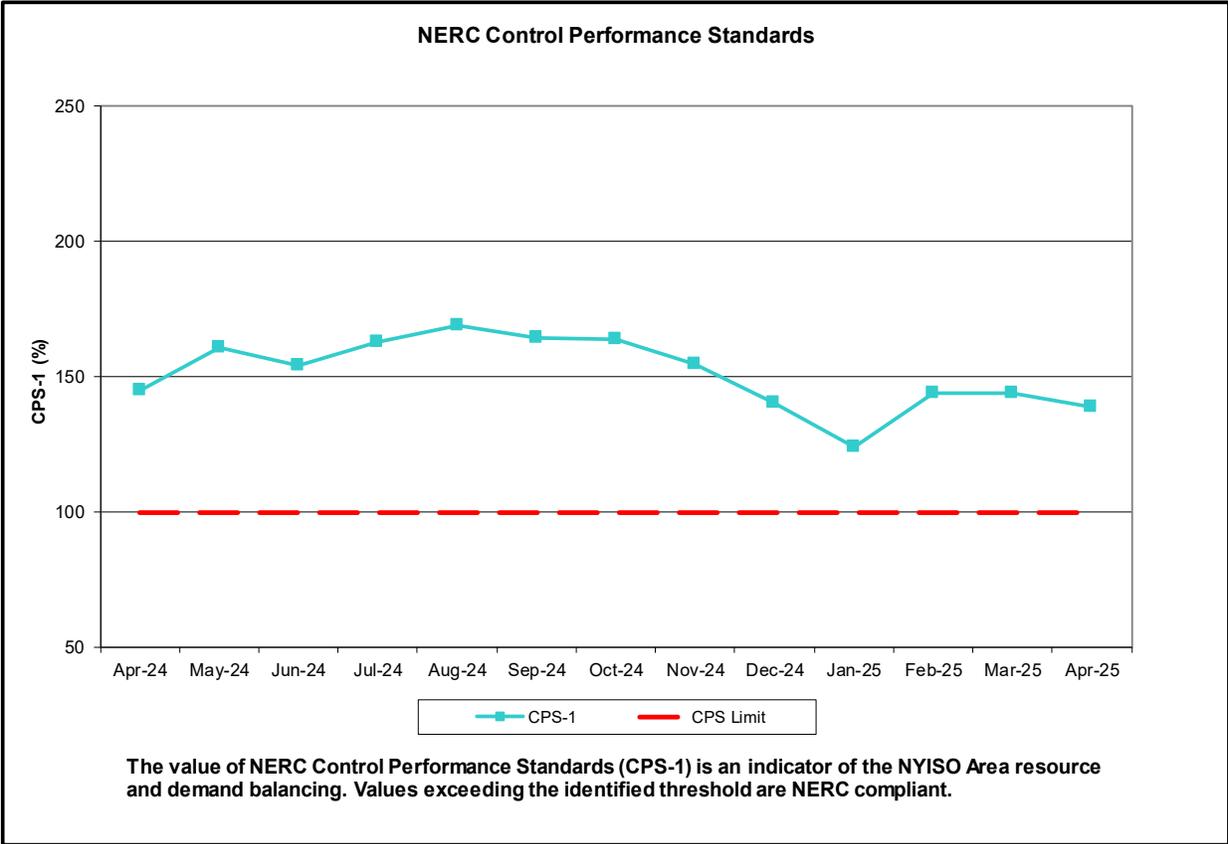
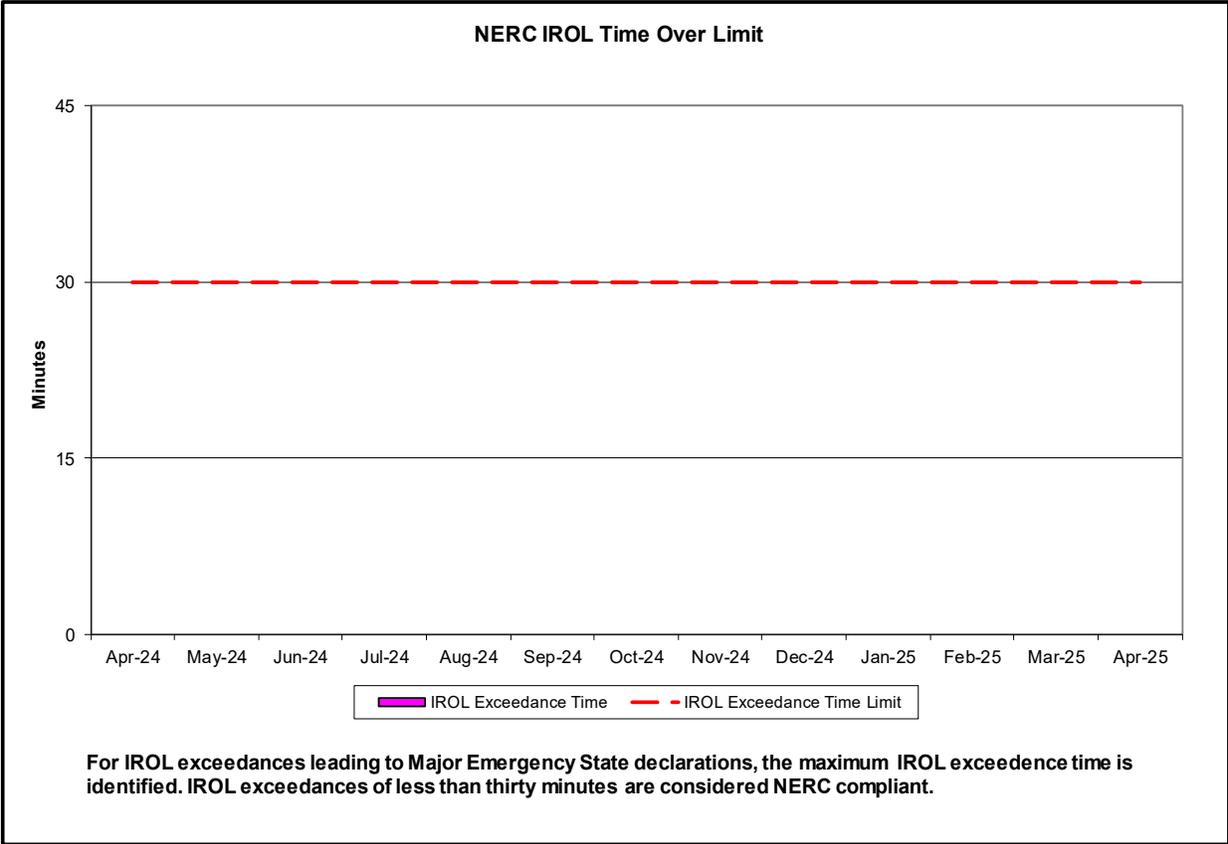
- Statewide uplift cost monthly average was (\$0.30)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

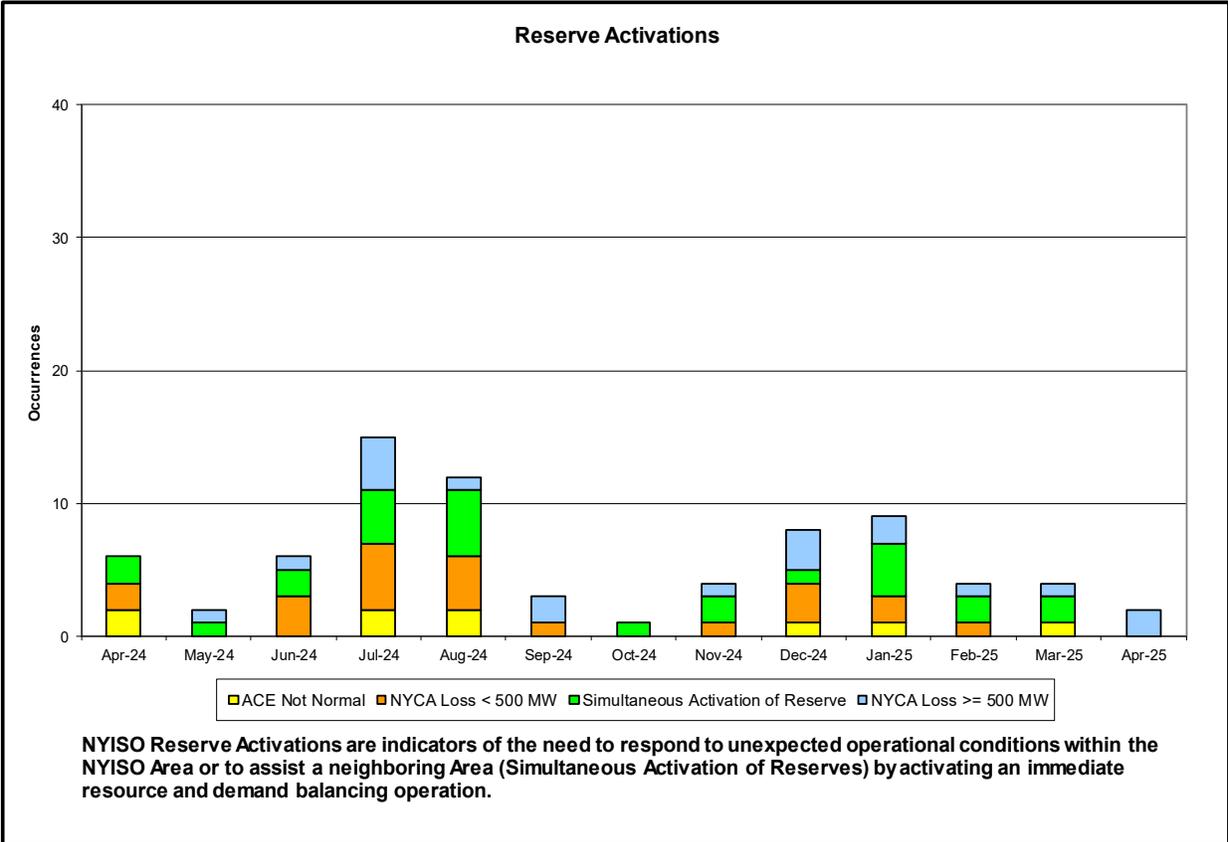
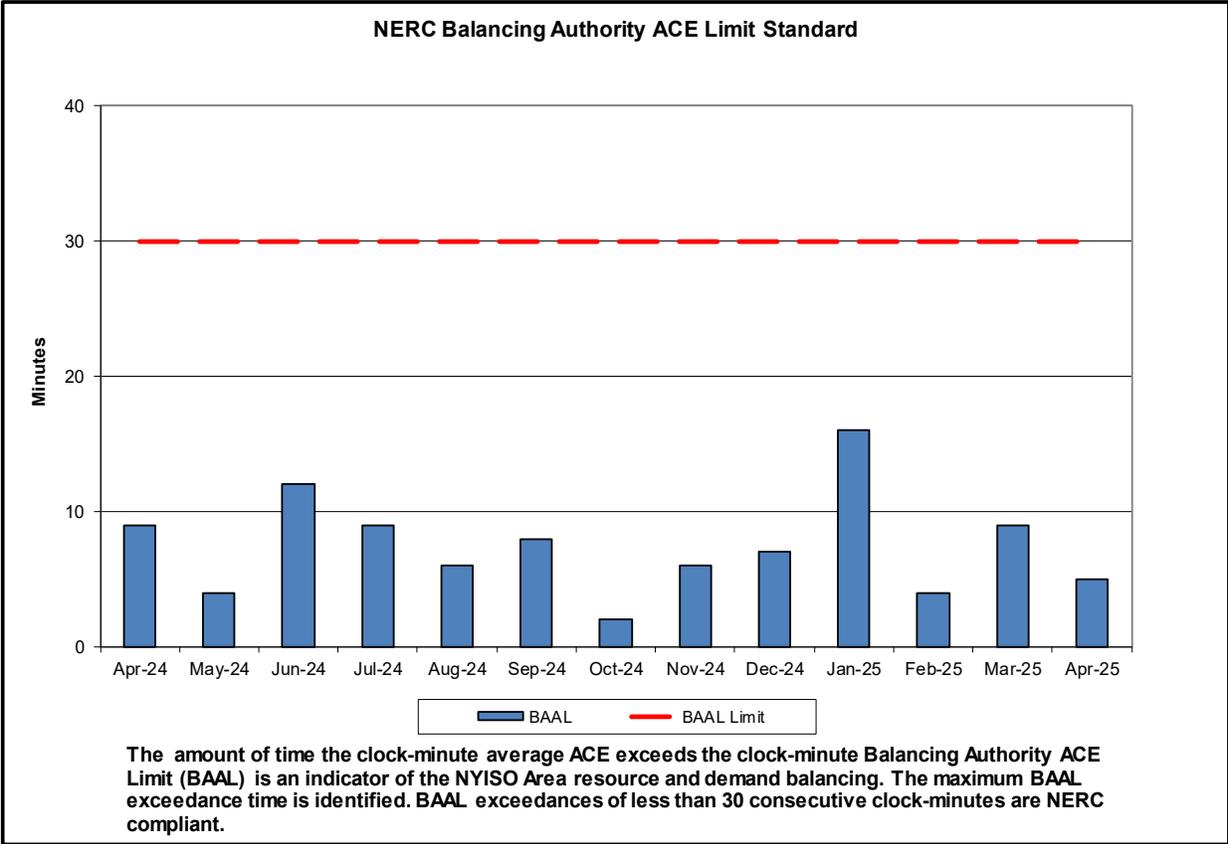
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
May 2025 Spot Price	\$5.23	\$5.23	\$14.96	\$5.23
October 2024 Spot Price	\$3.88	\$3.88	\$14.11	\$3.88
Delta	\$1.35	\$1.35	\$0.85	\$1.35

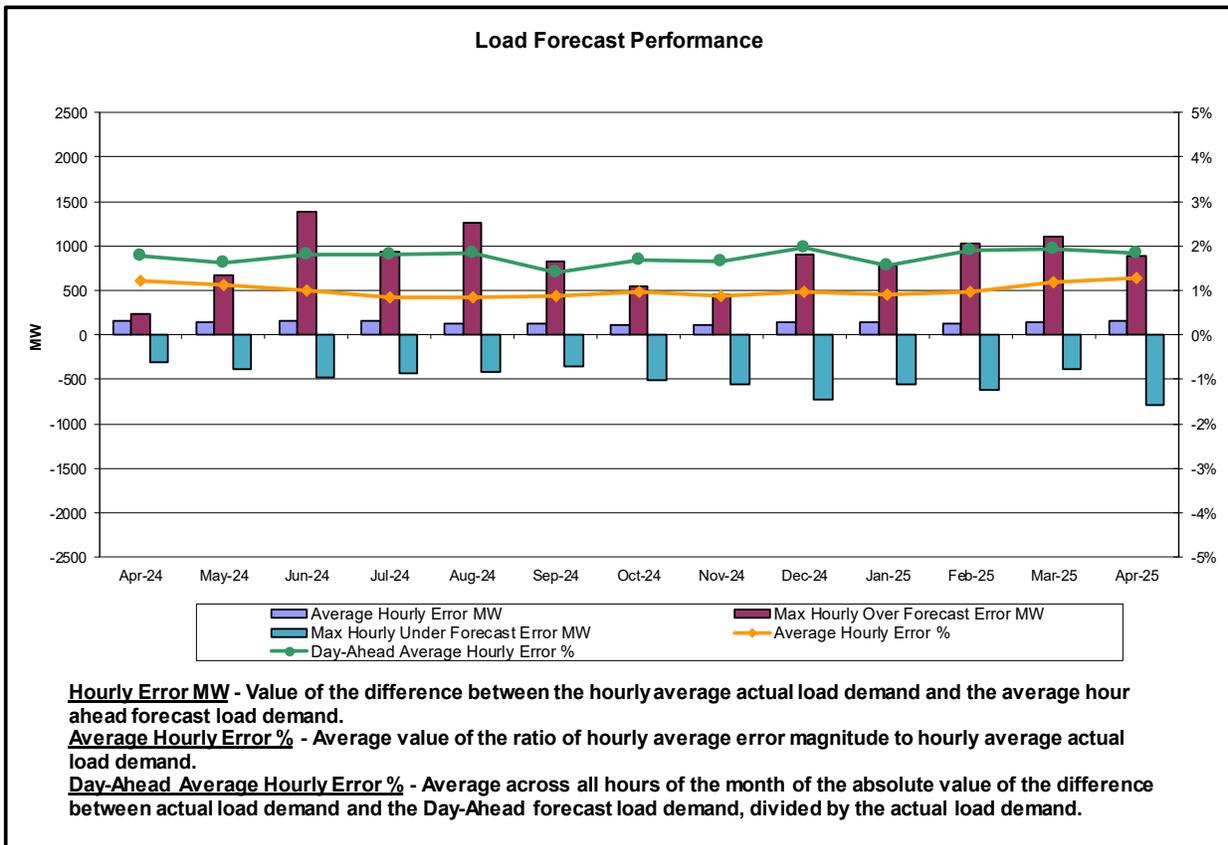
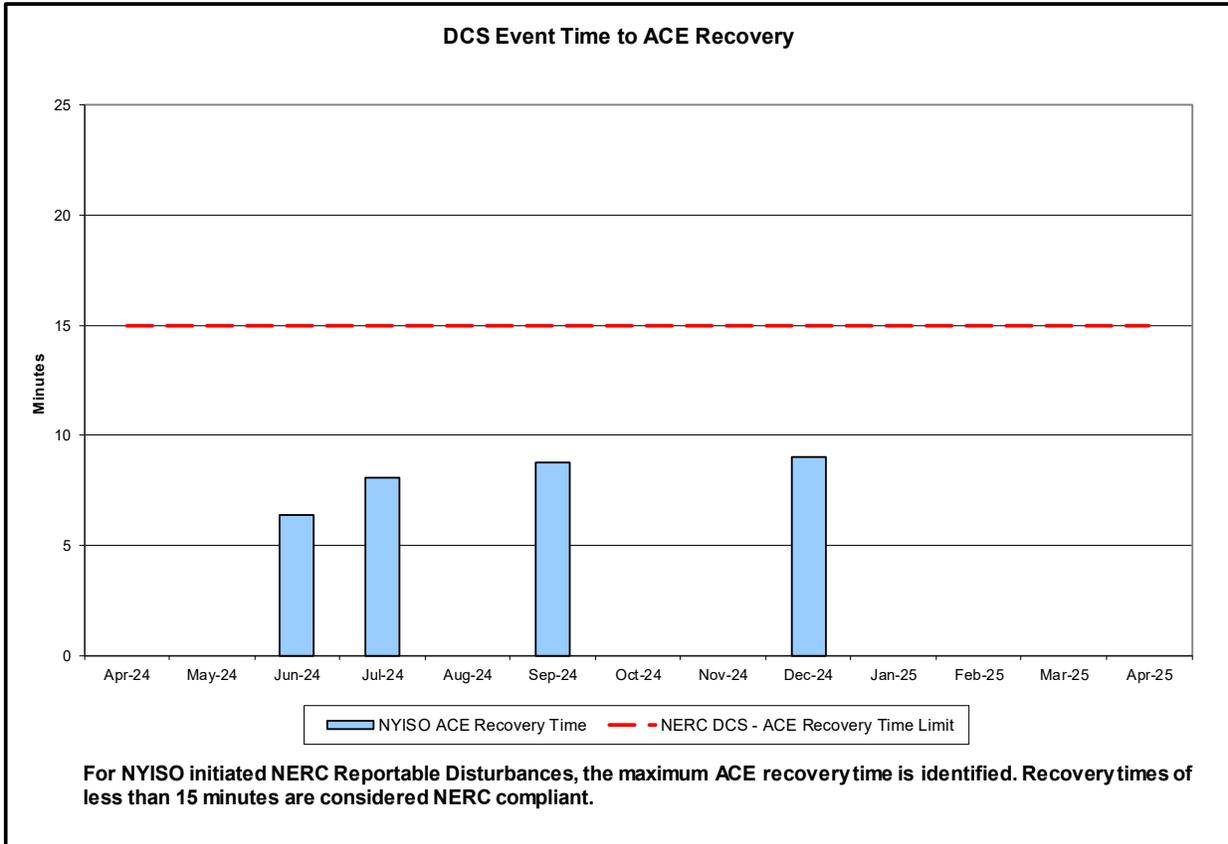
- Price changes from October 2024 to May 2025 are driven by Capability Year input changes such as demand curve parameters, Location Capacity Requirements, the Installed Reserve Margin, and the load forecast.

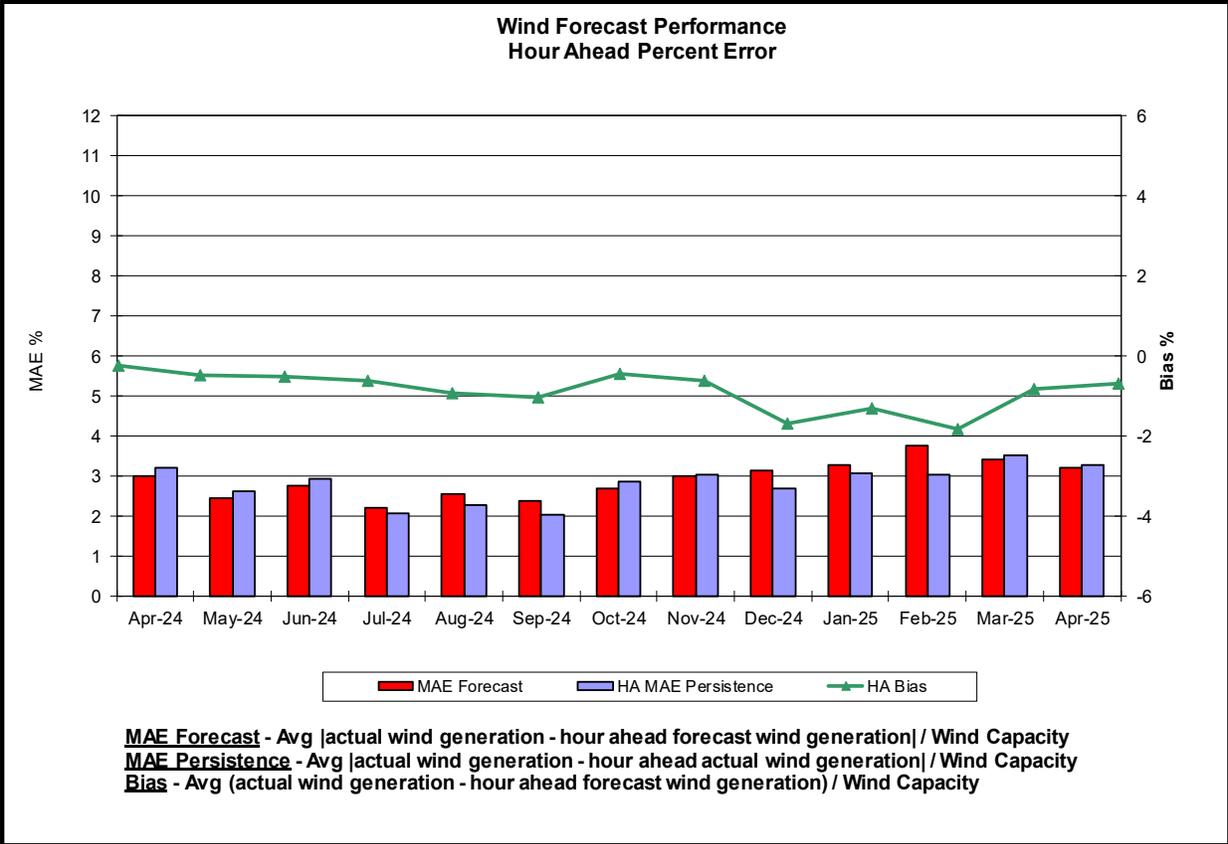
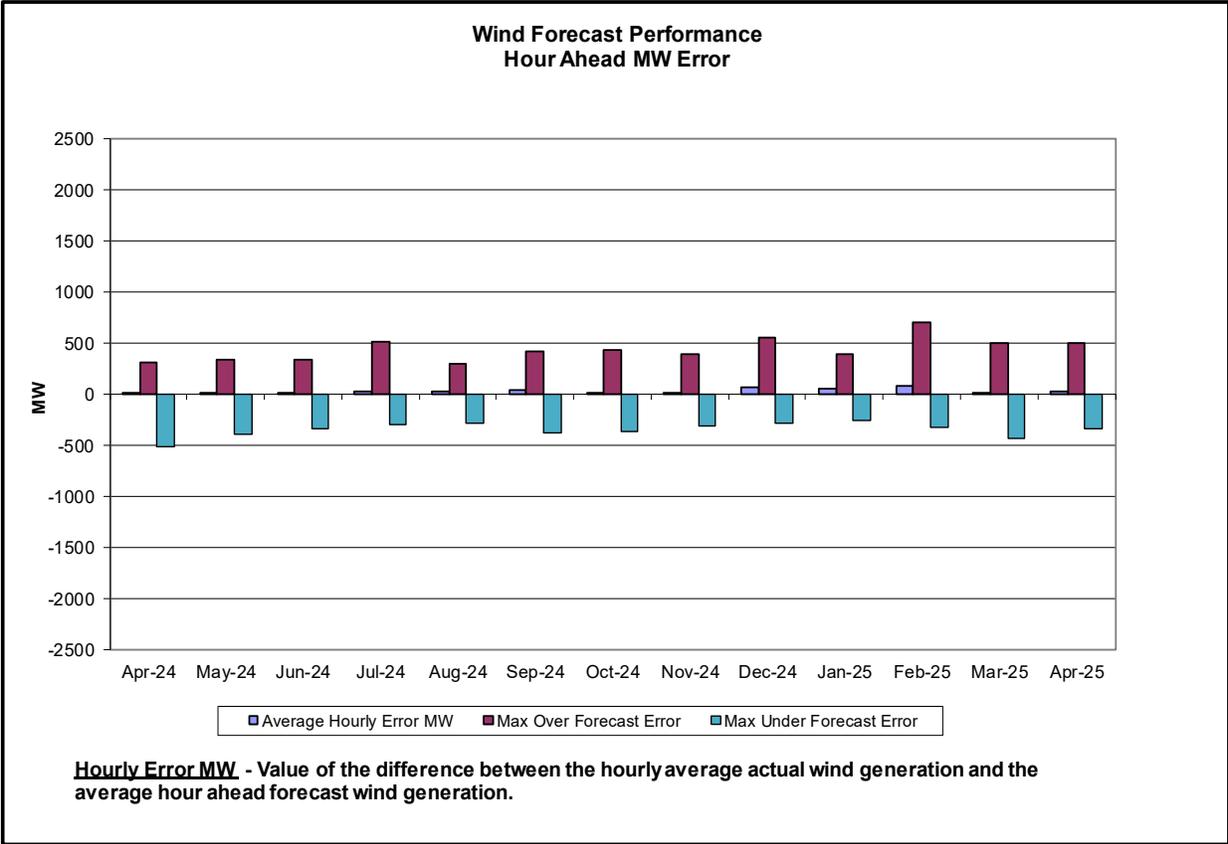
Reliability Performance Metrics

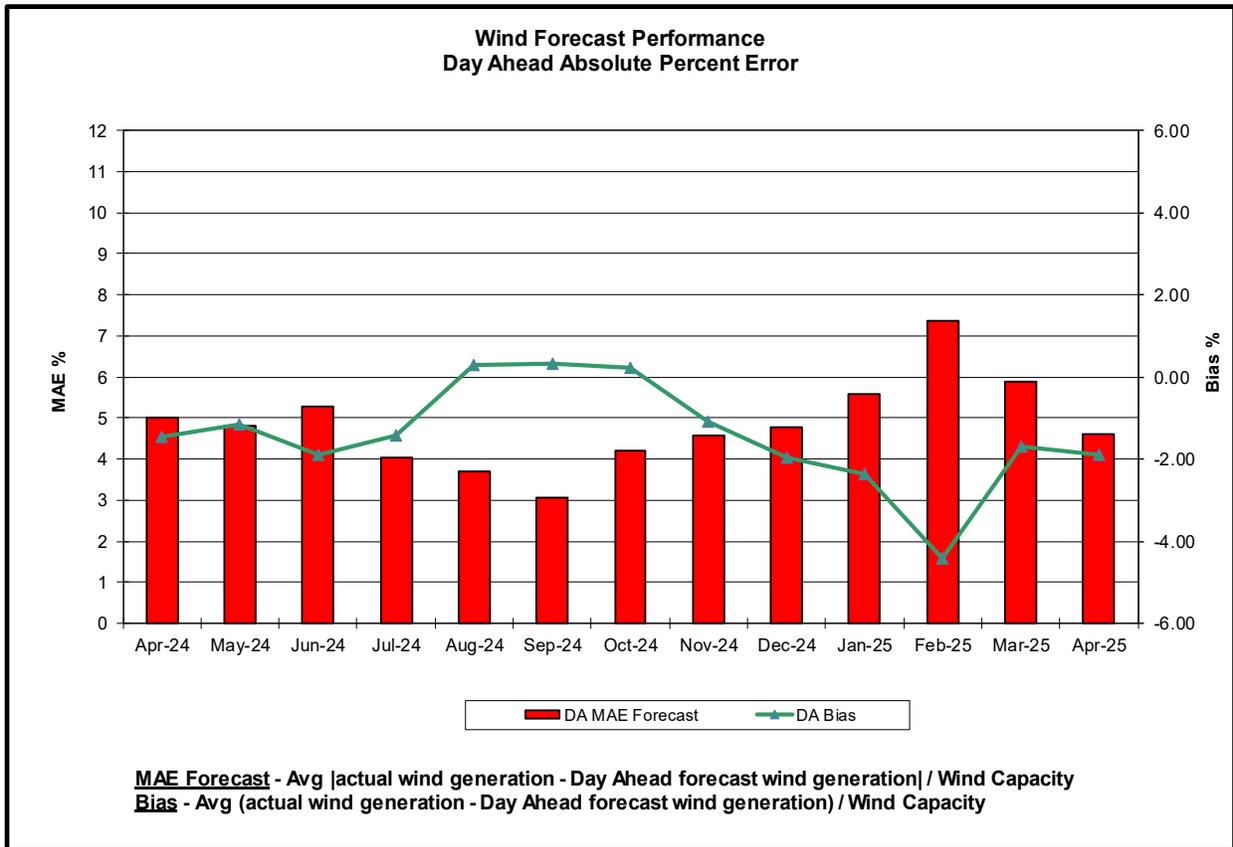
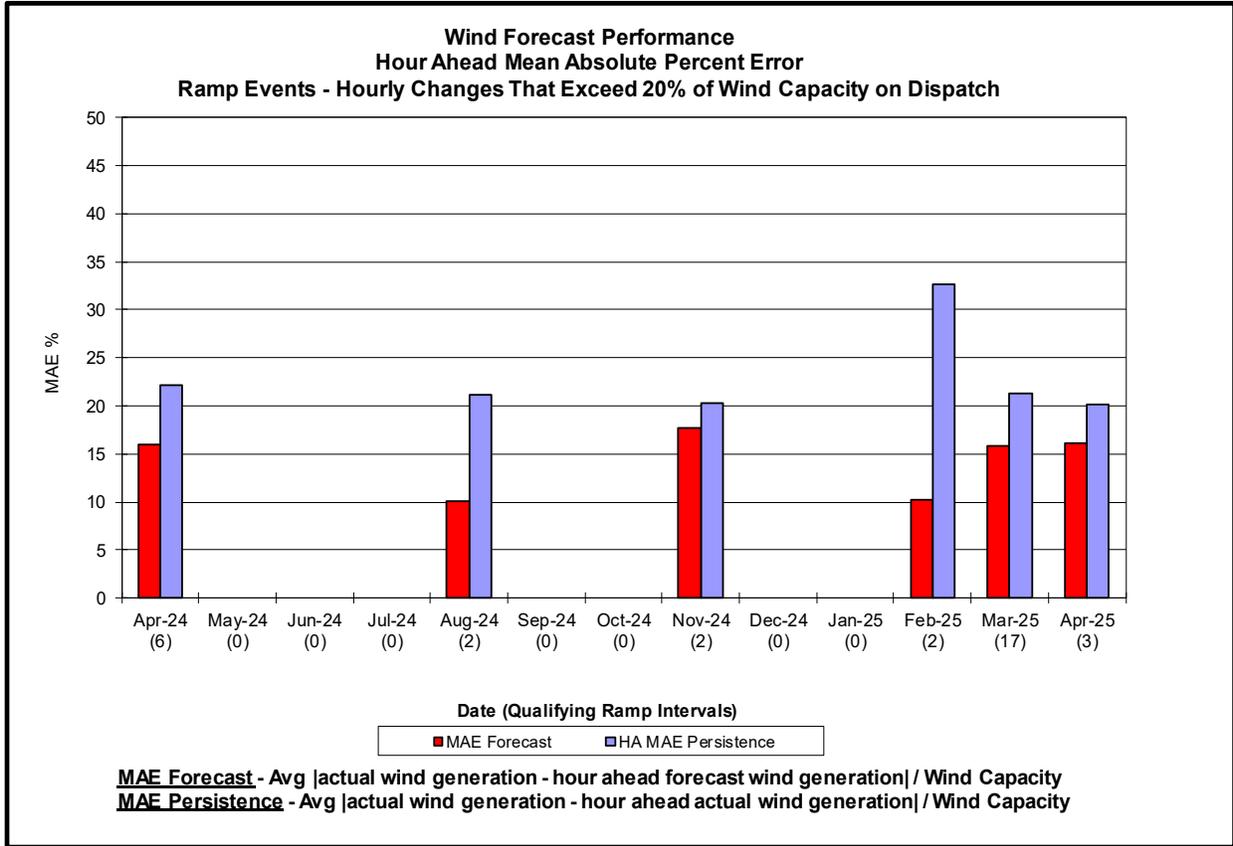


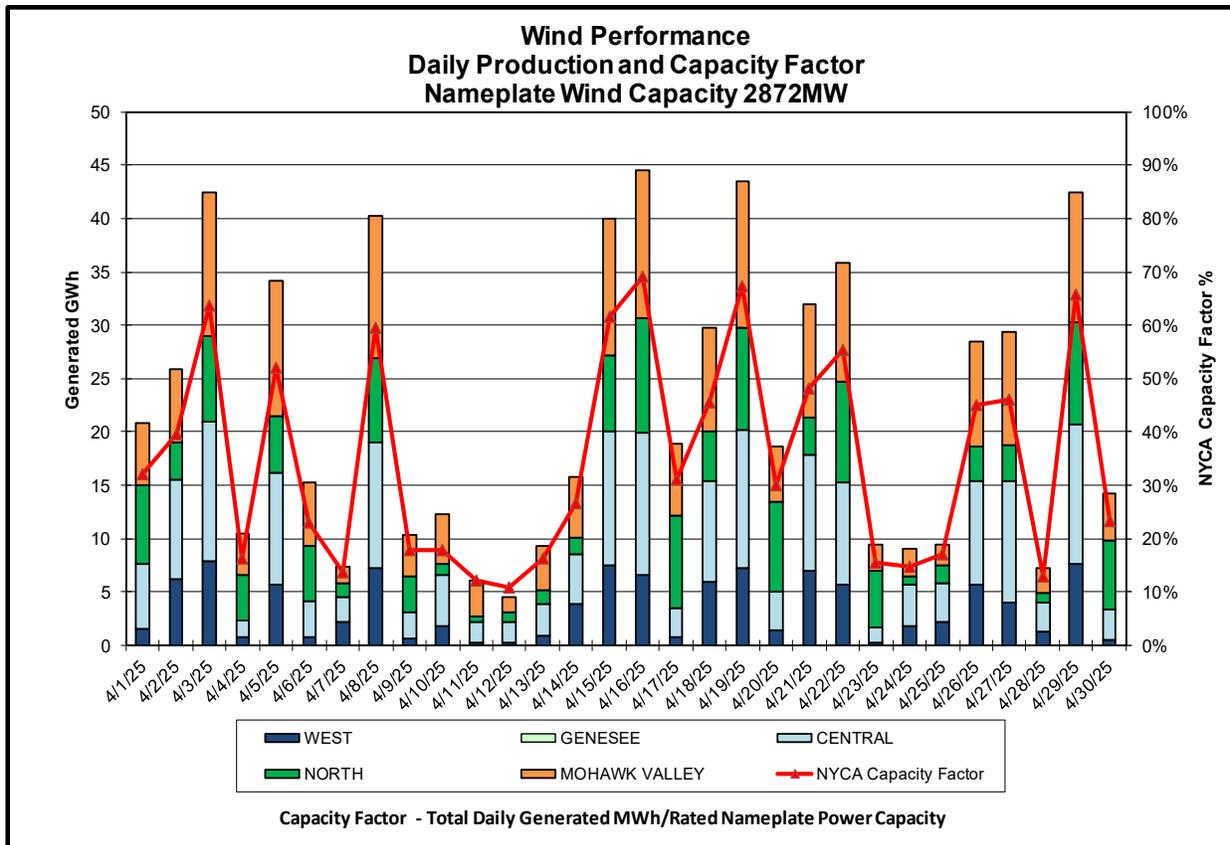
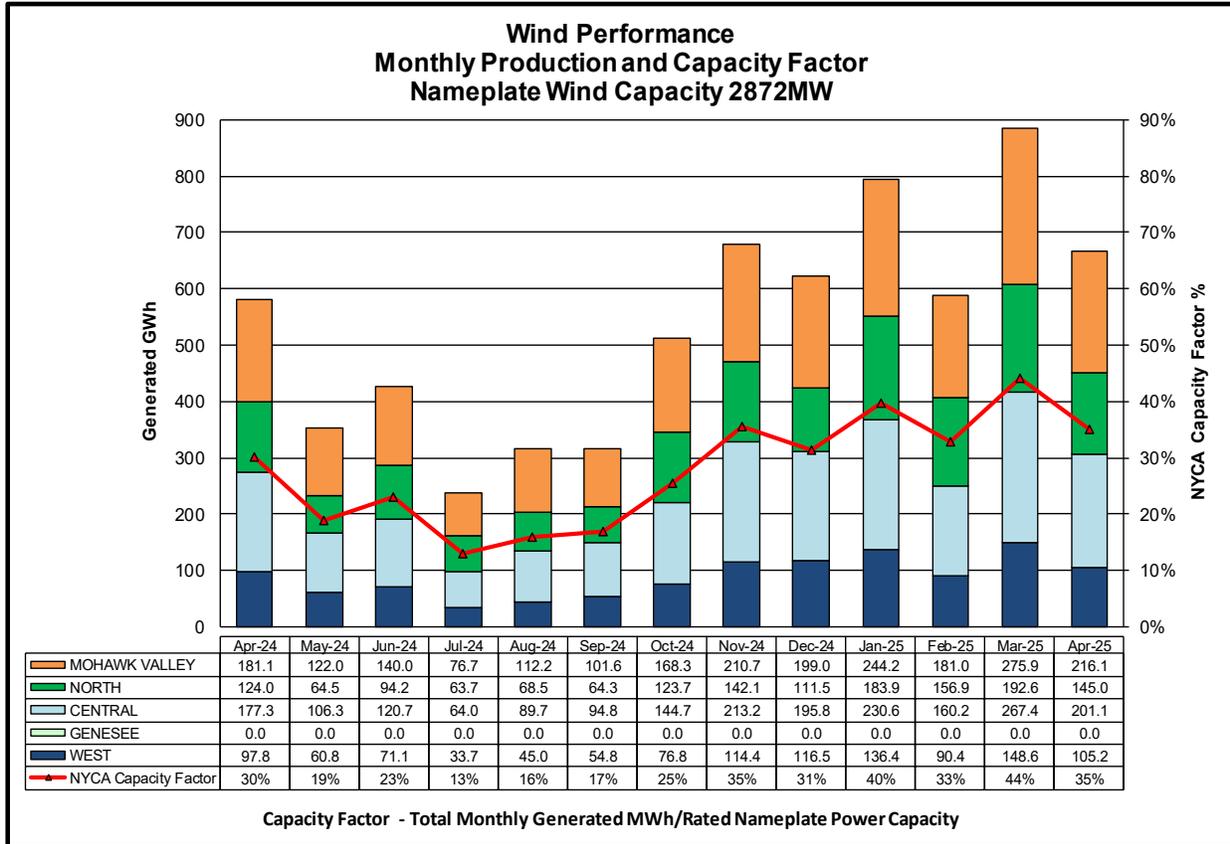


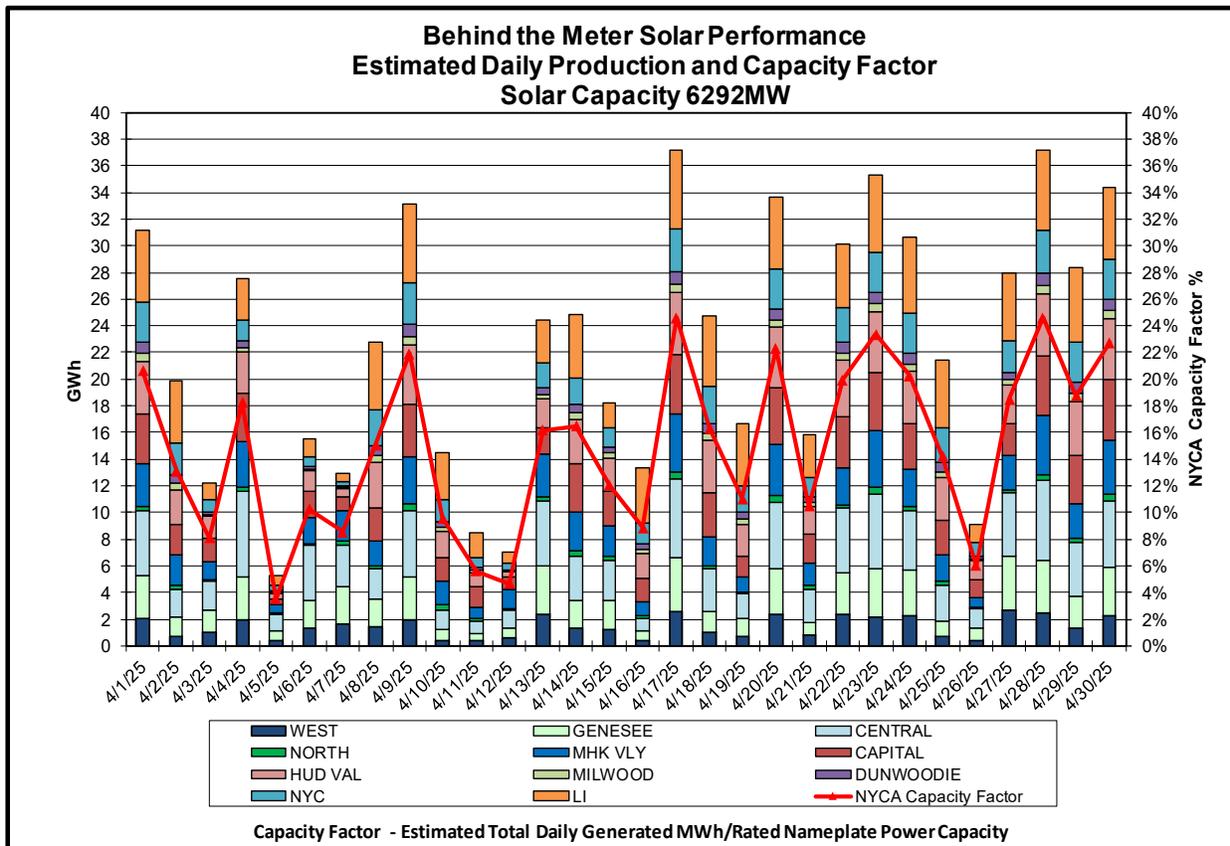
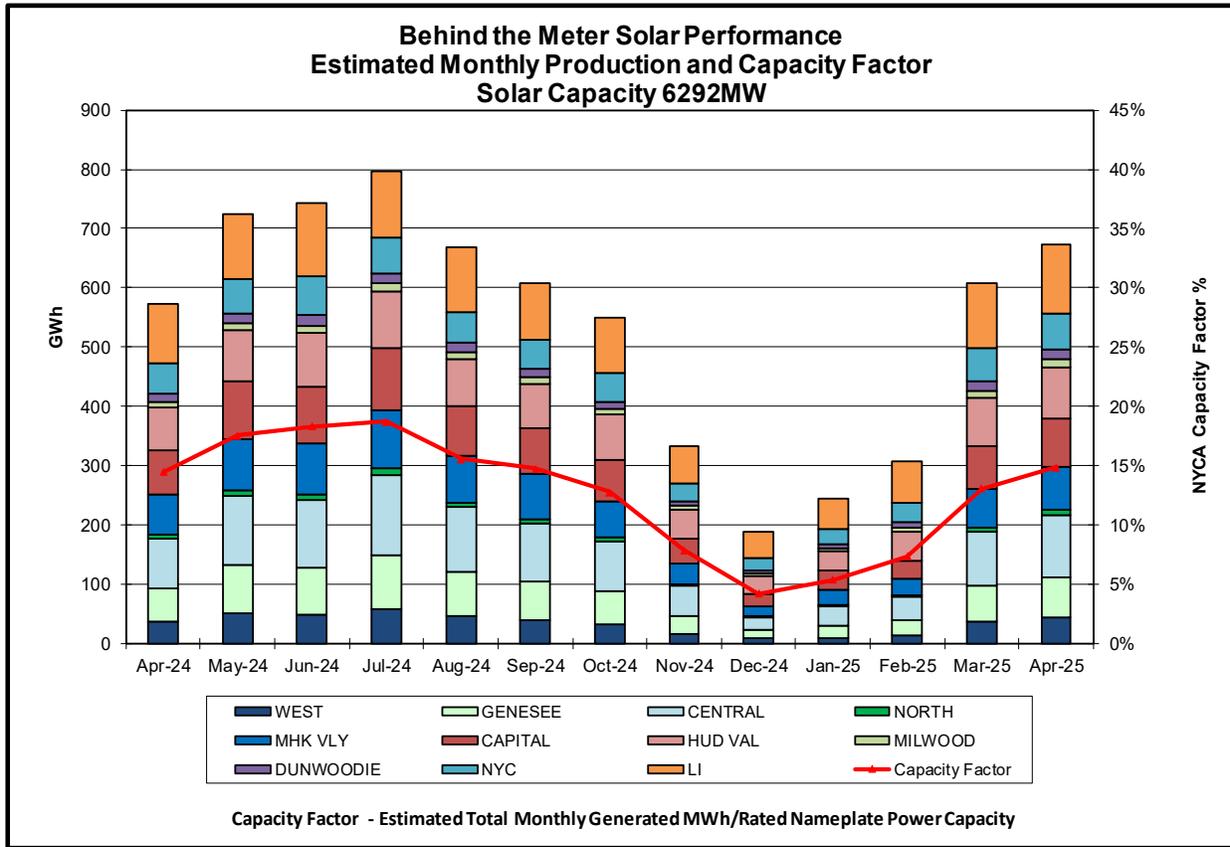


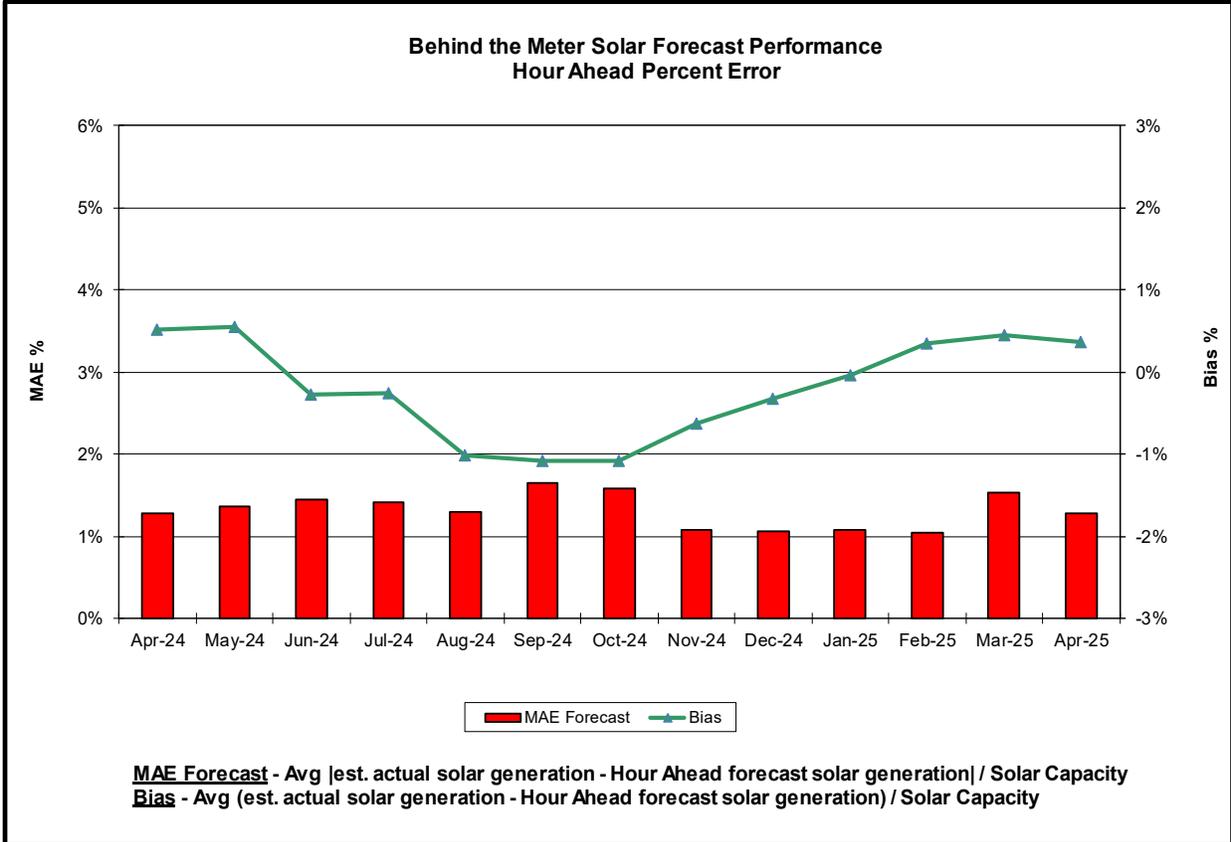
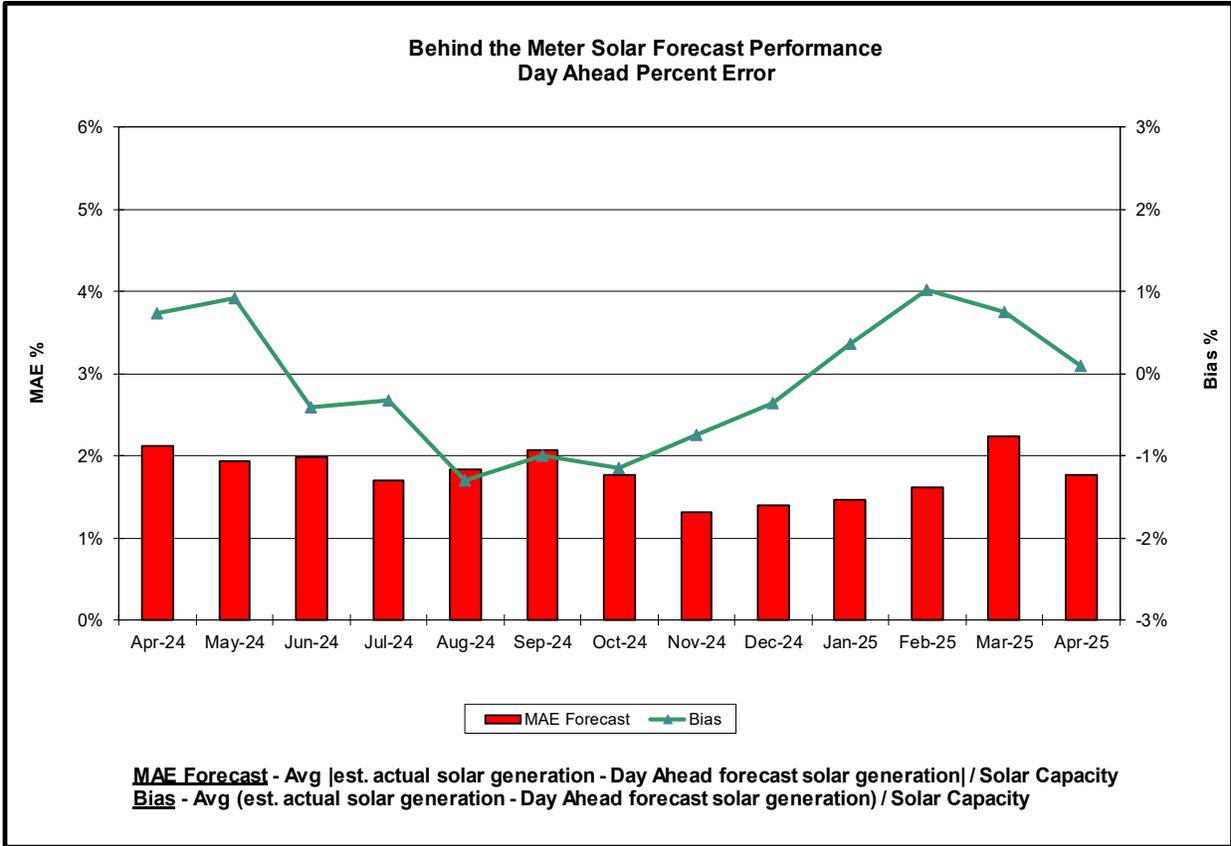


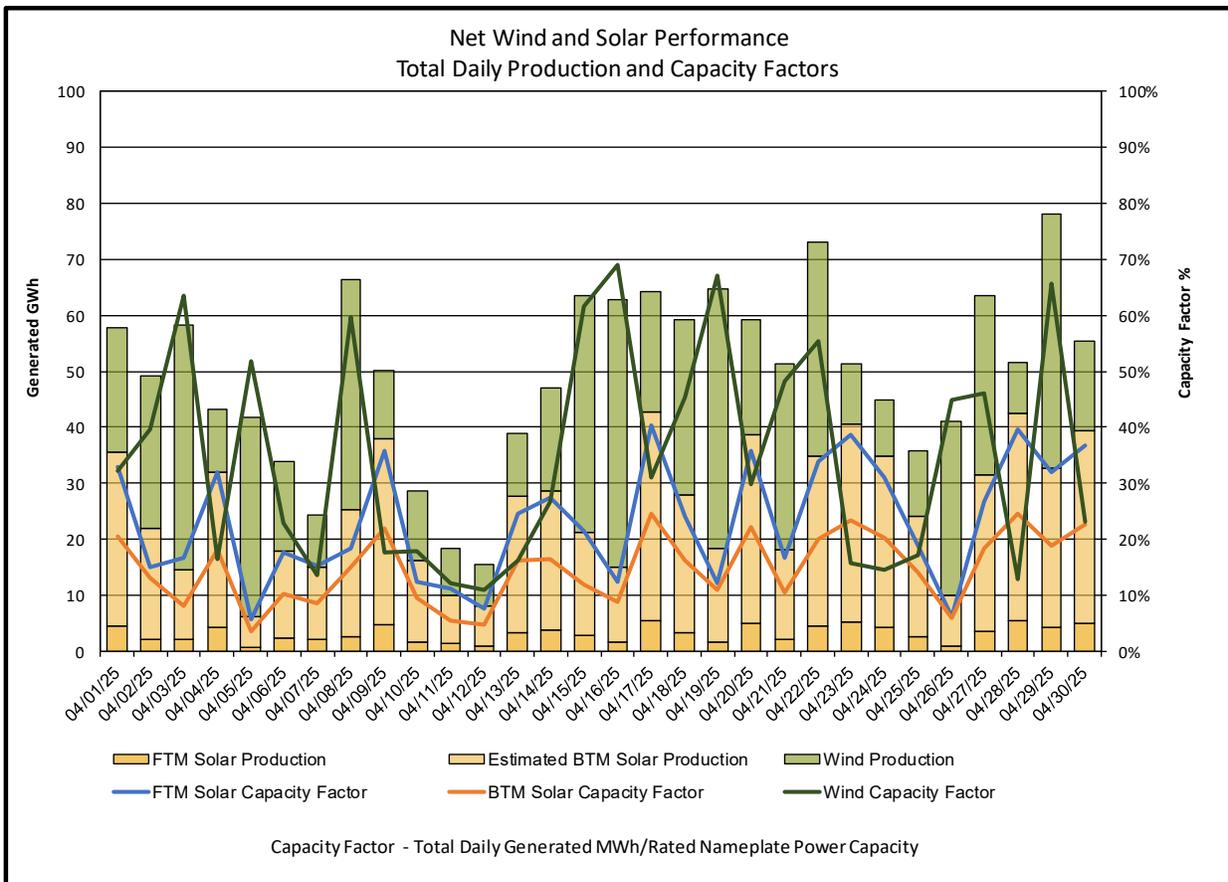
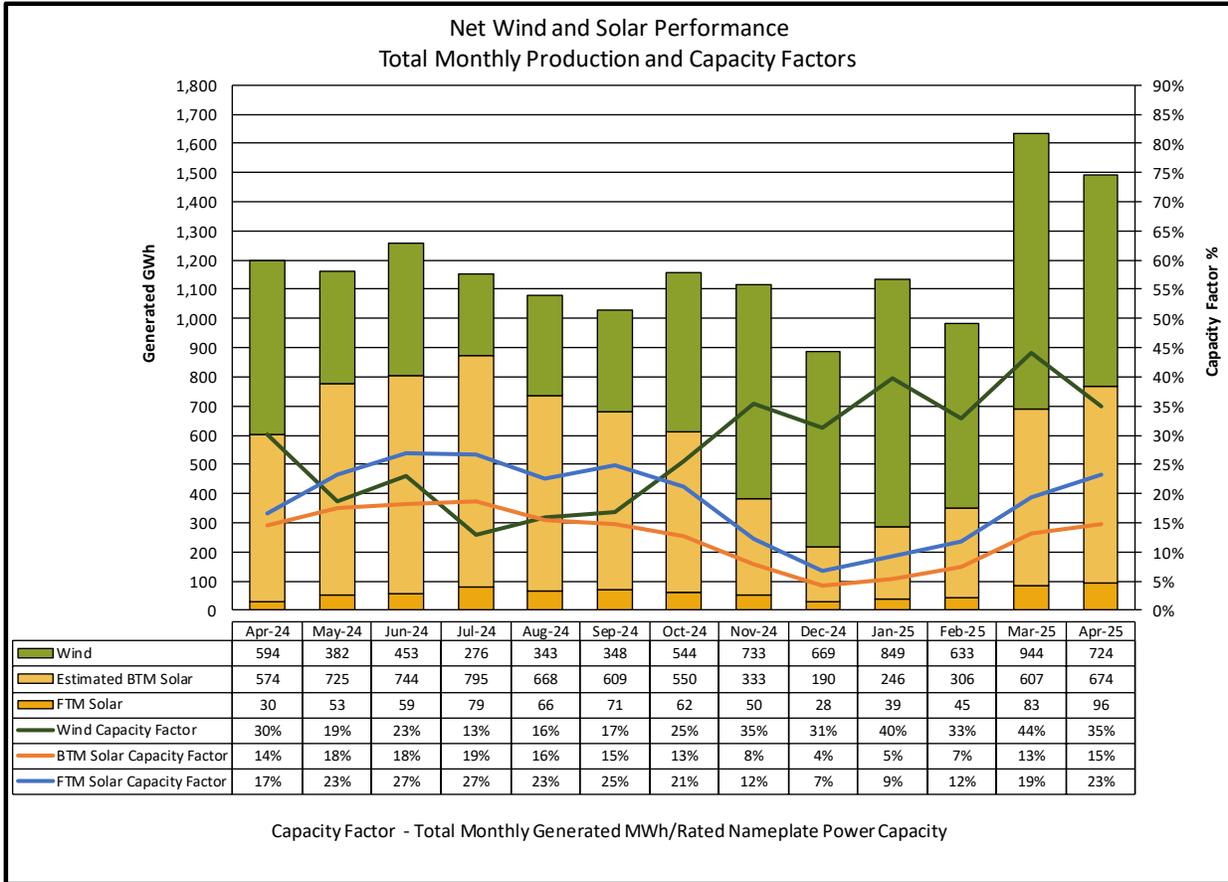


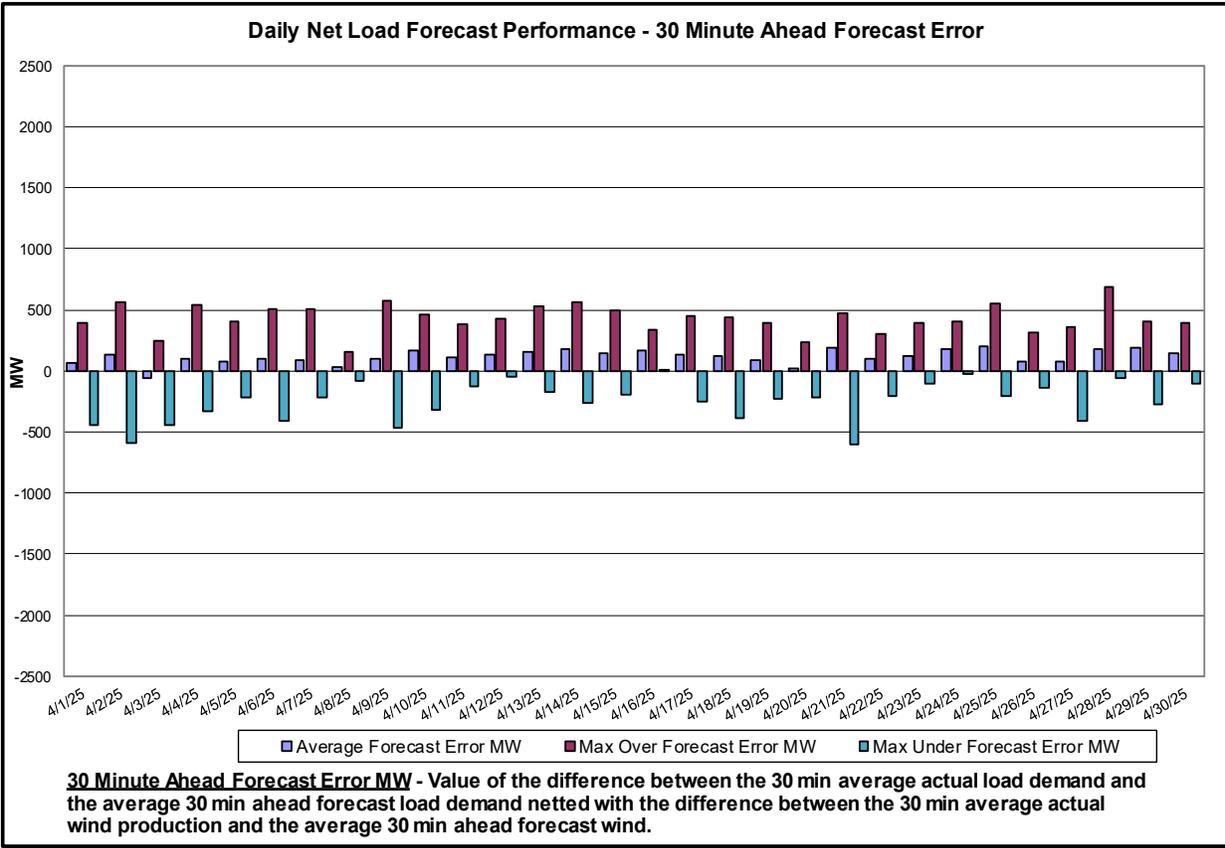
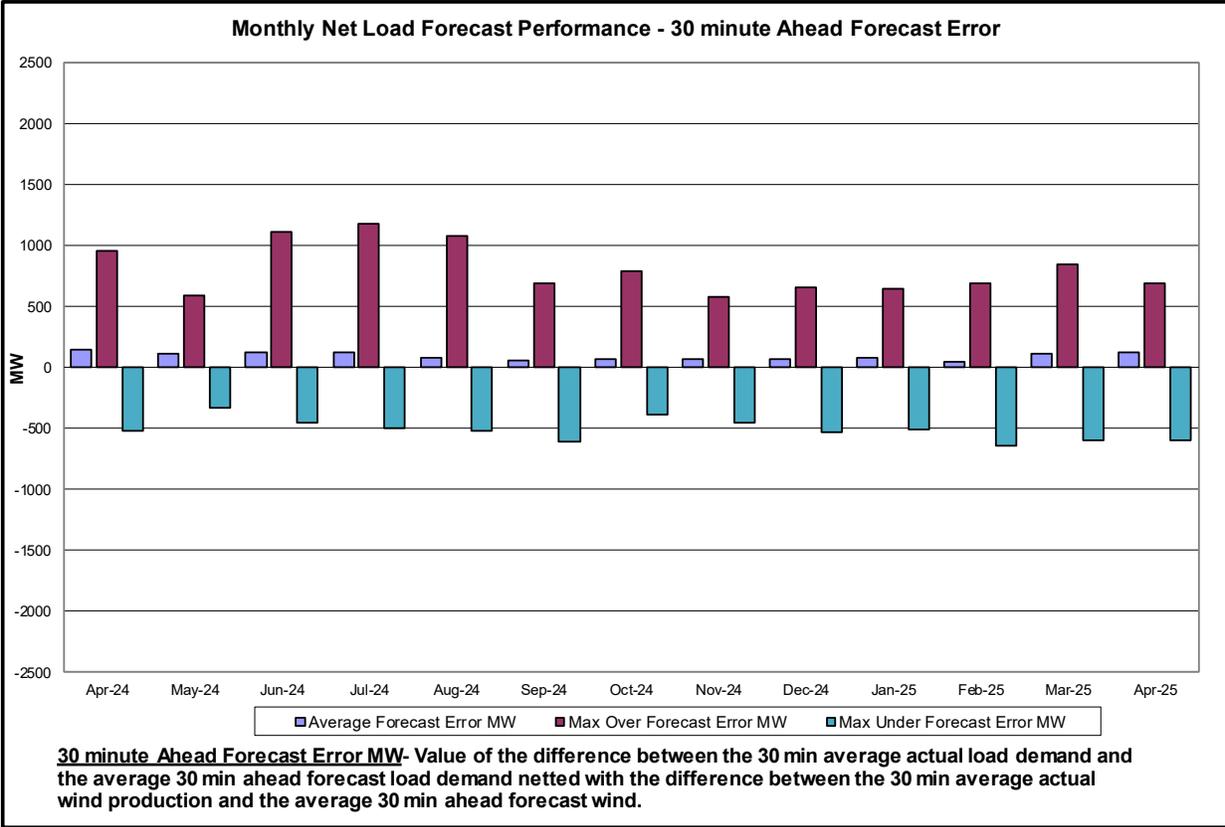


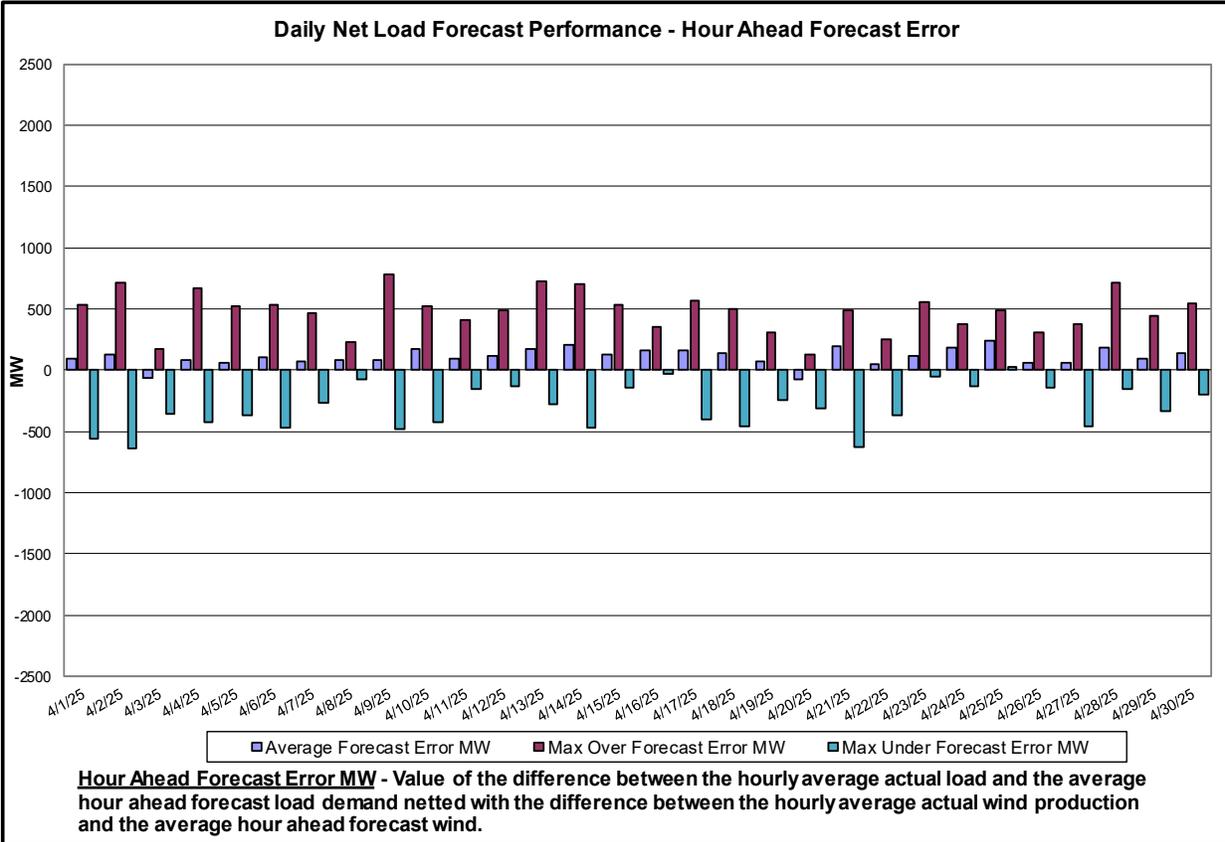
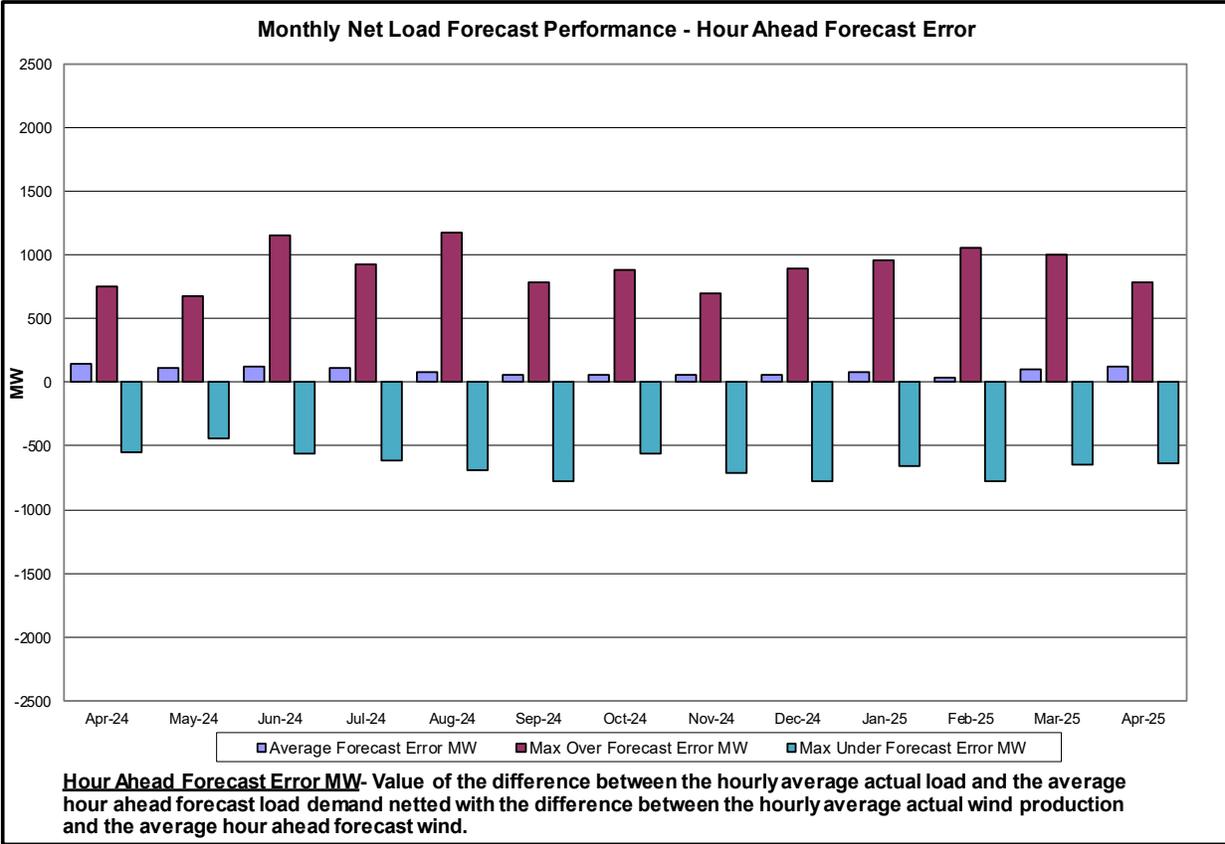


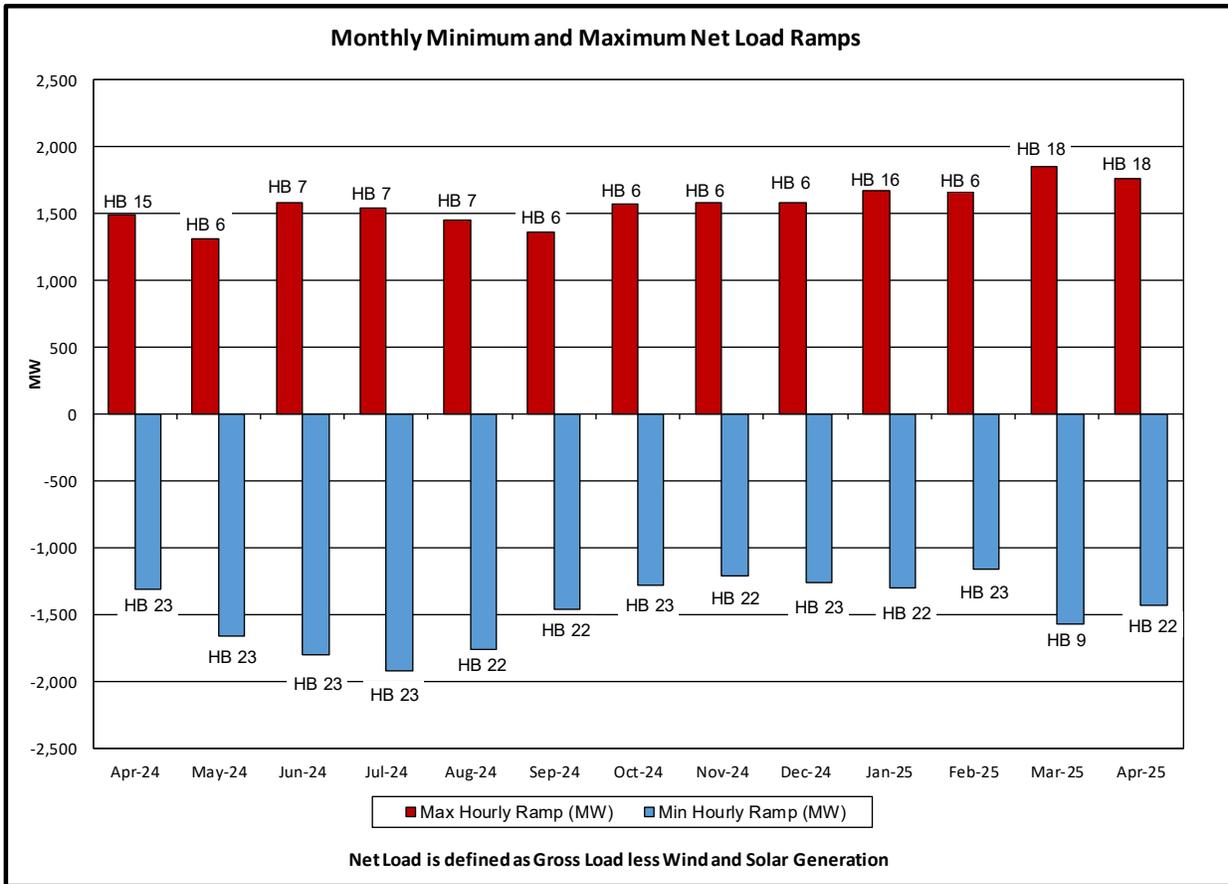
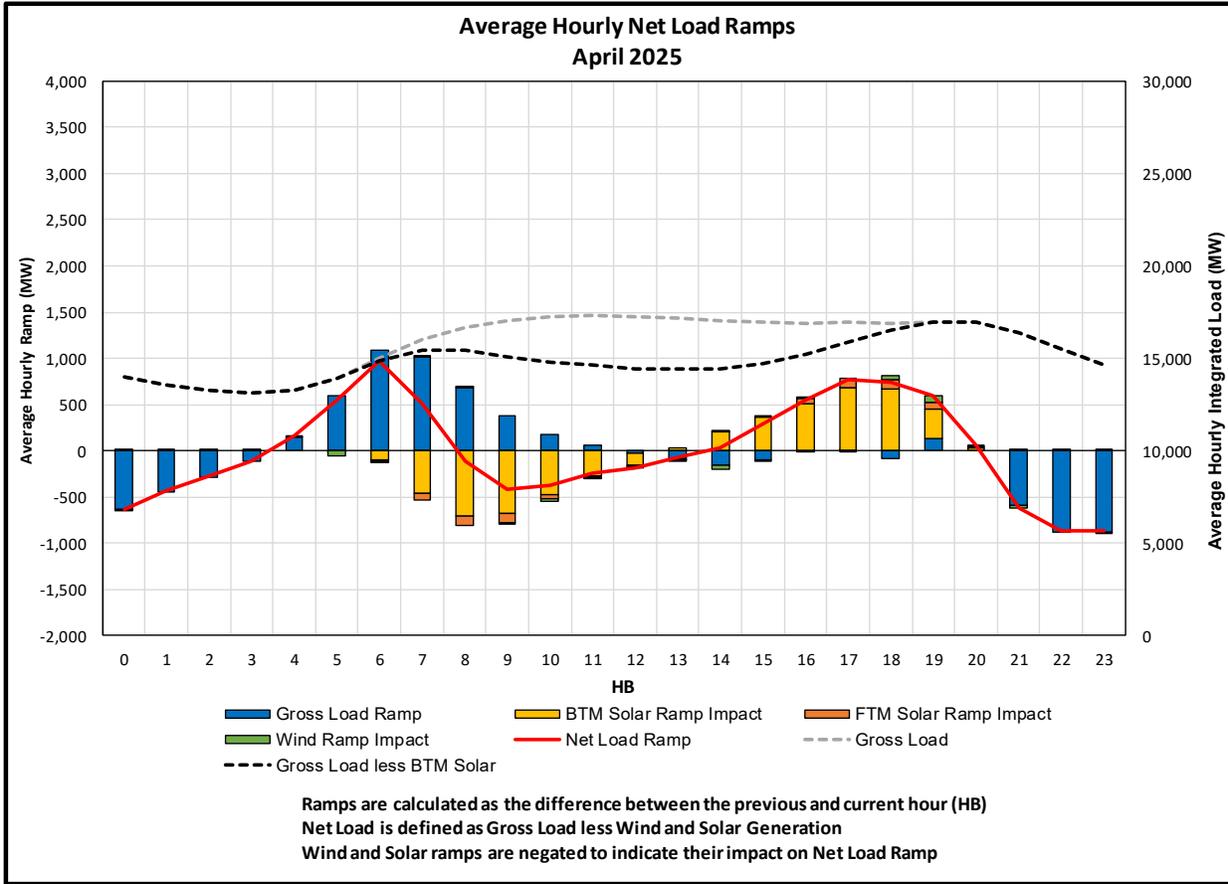


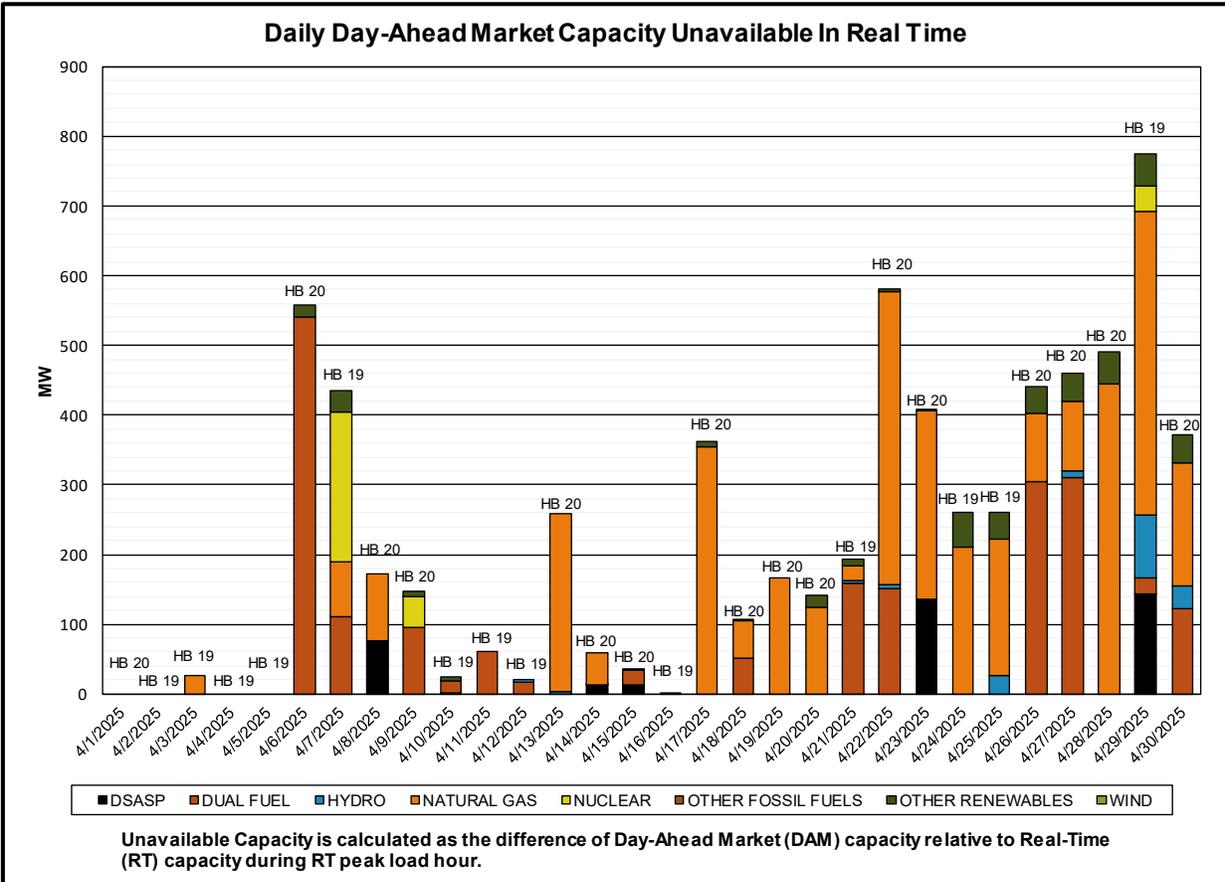
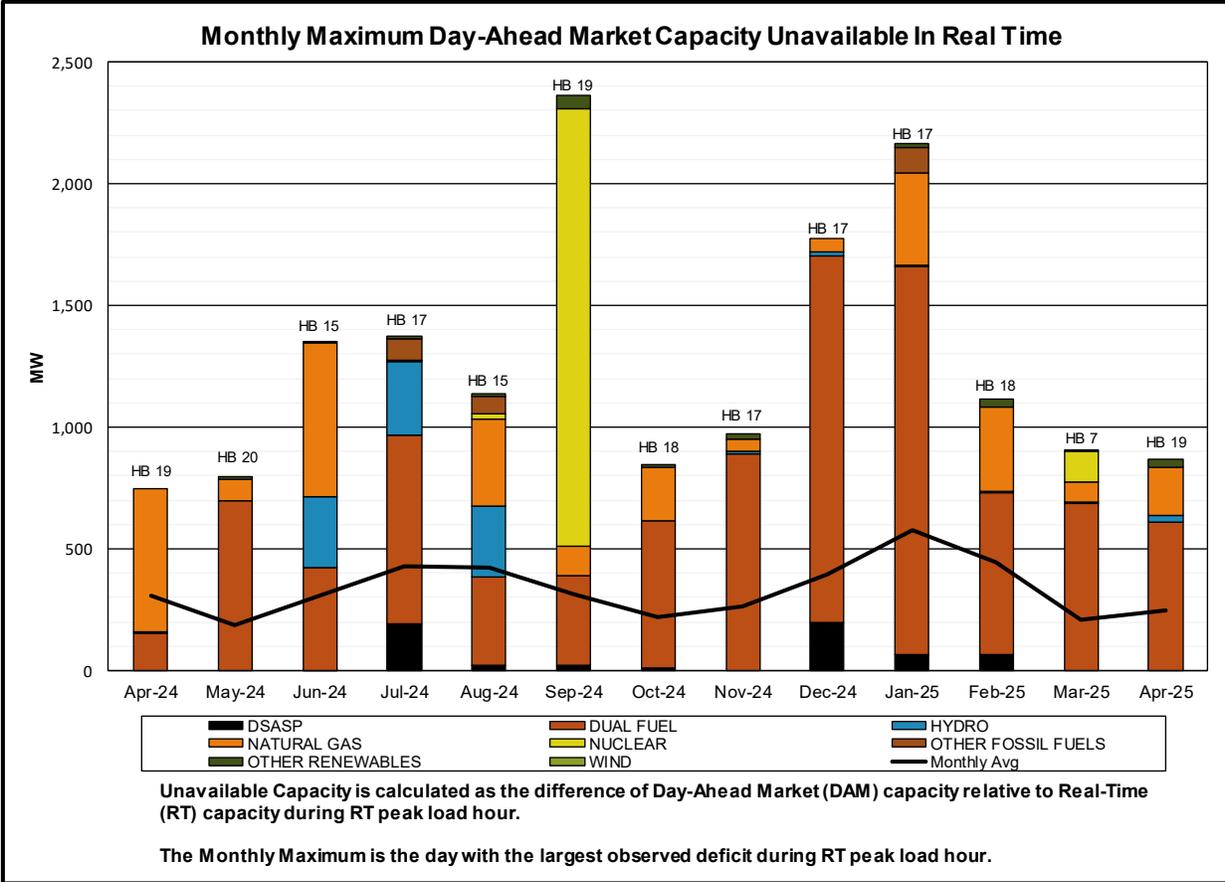


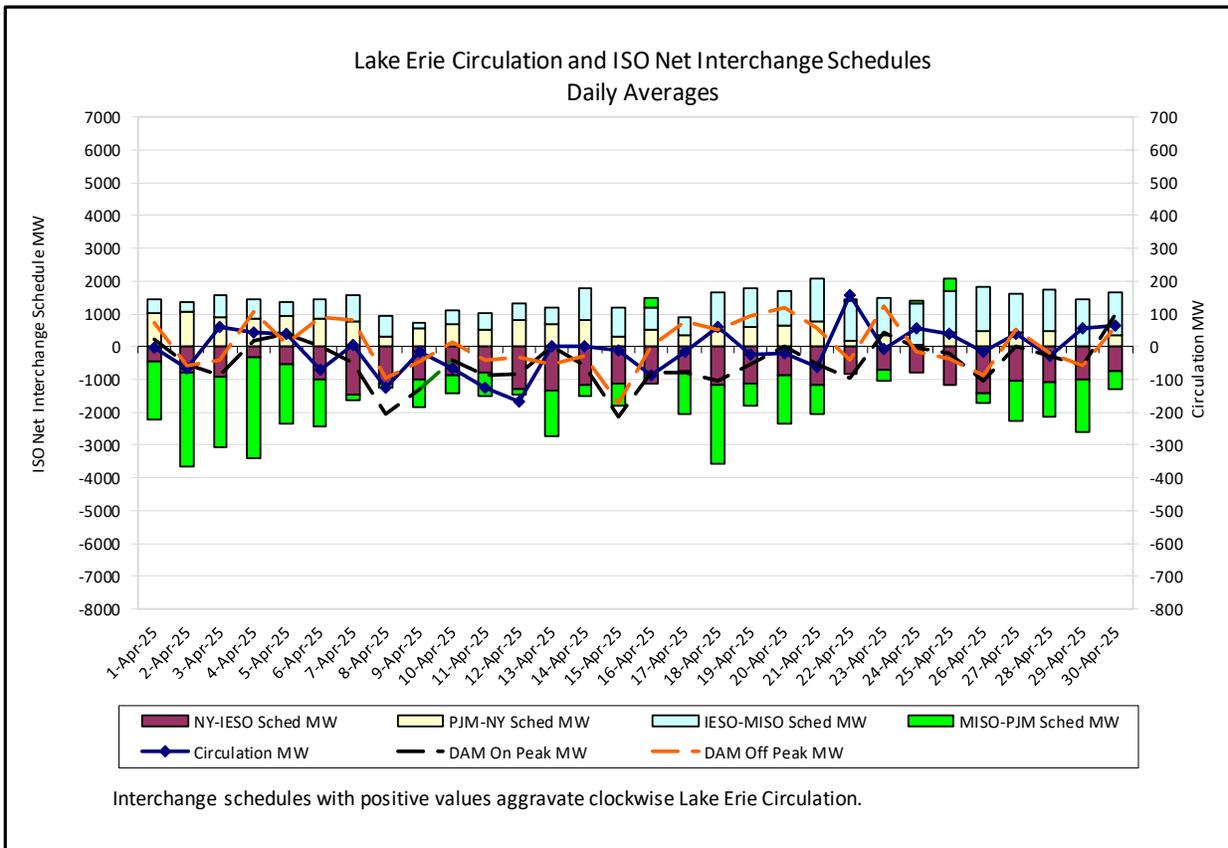
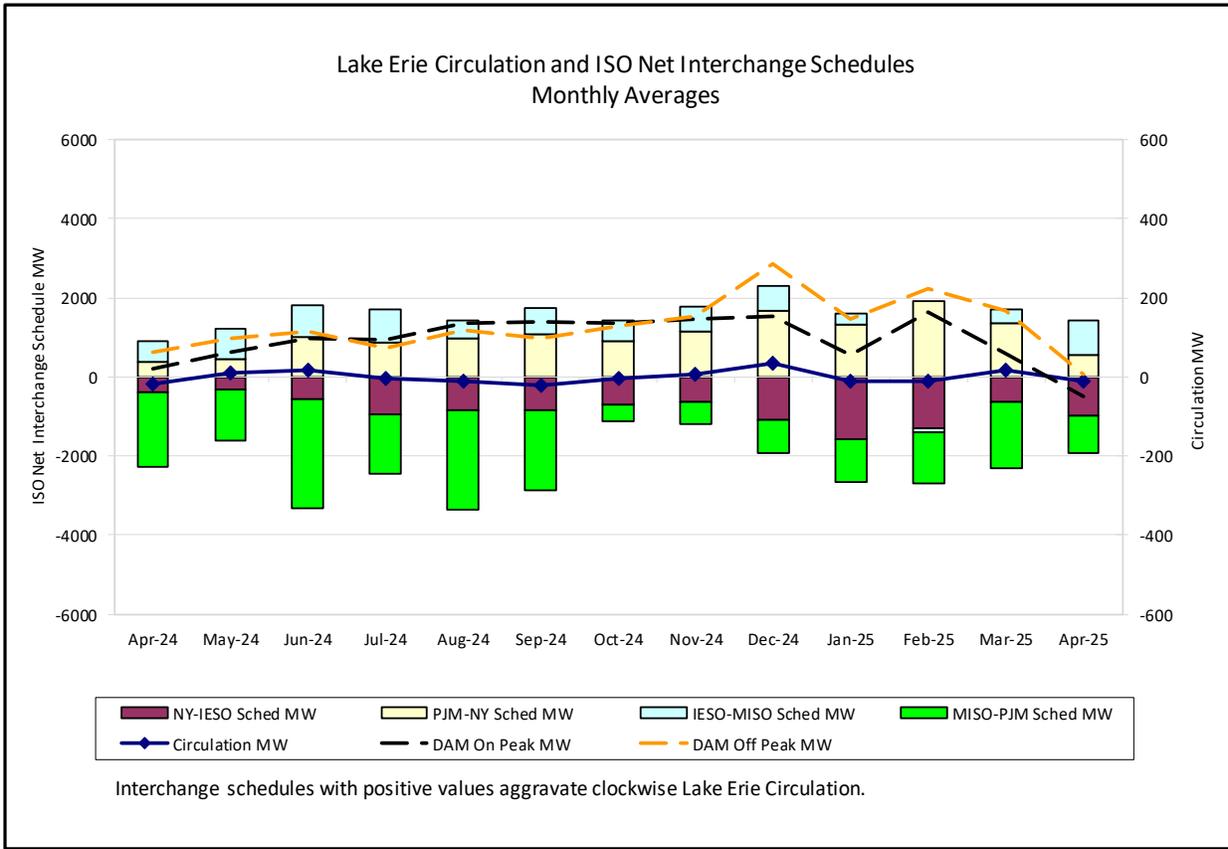




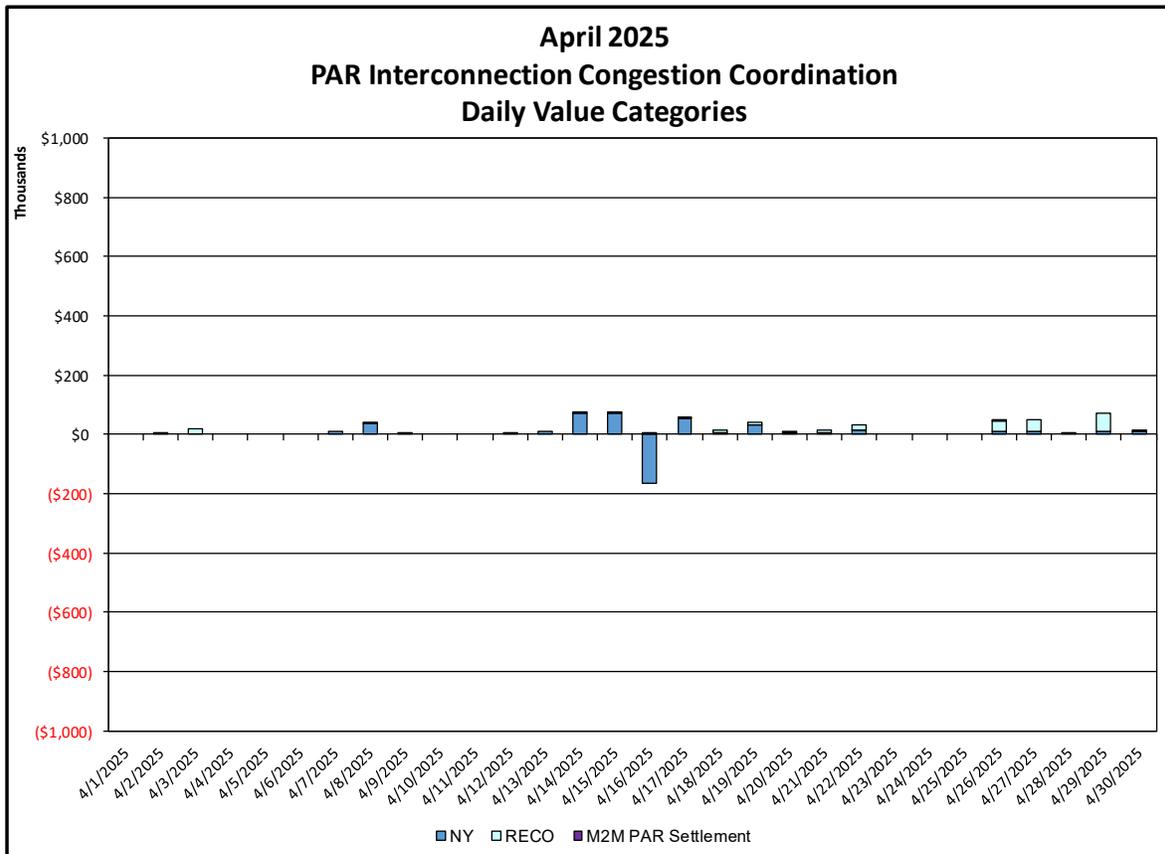
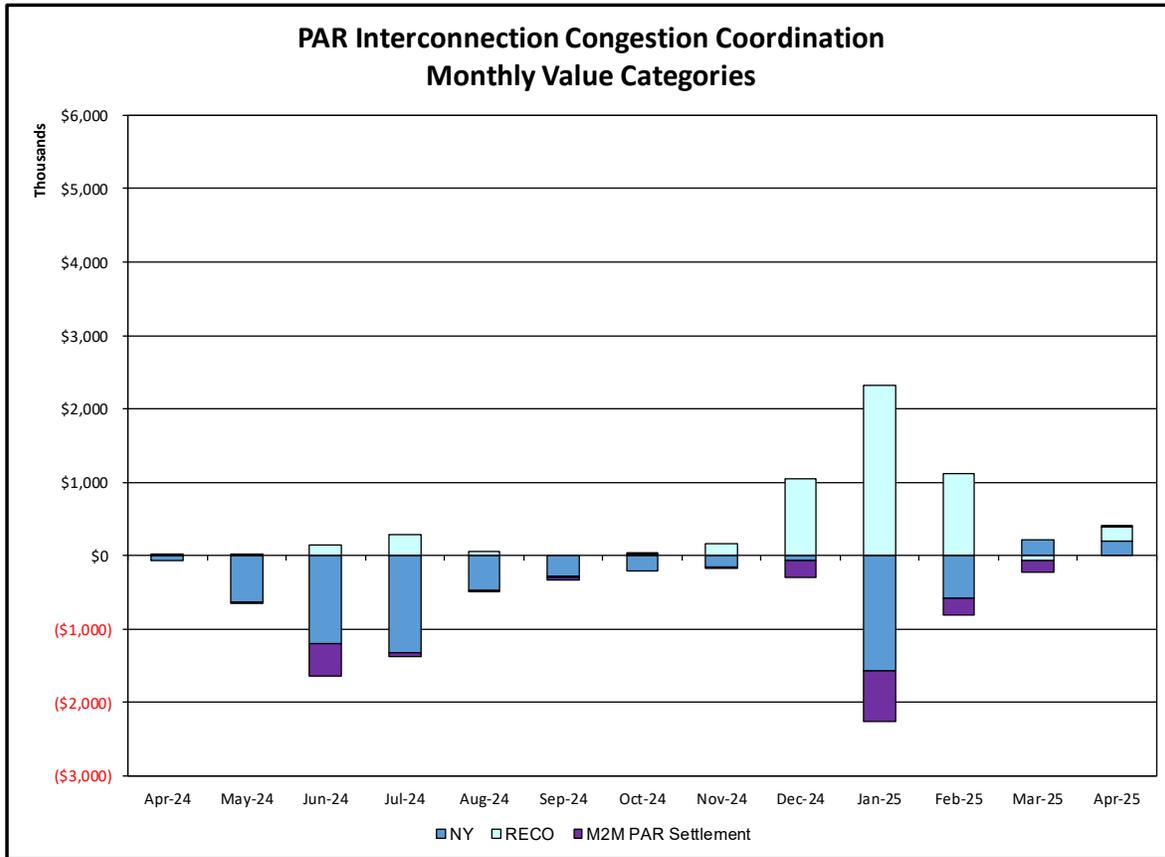






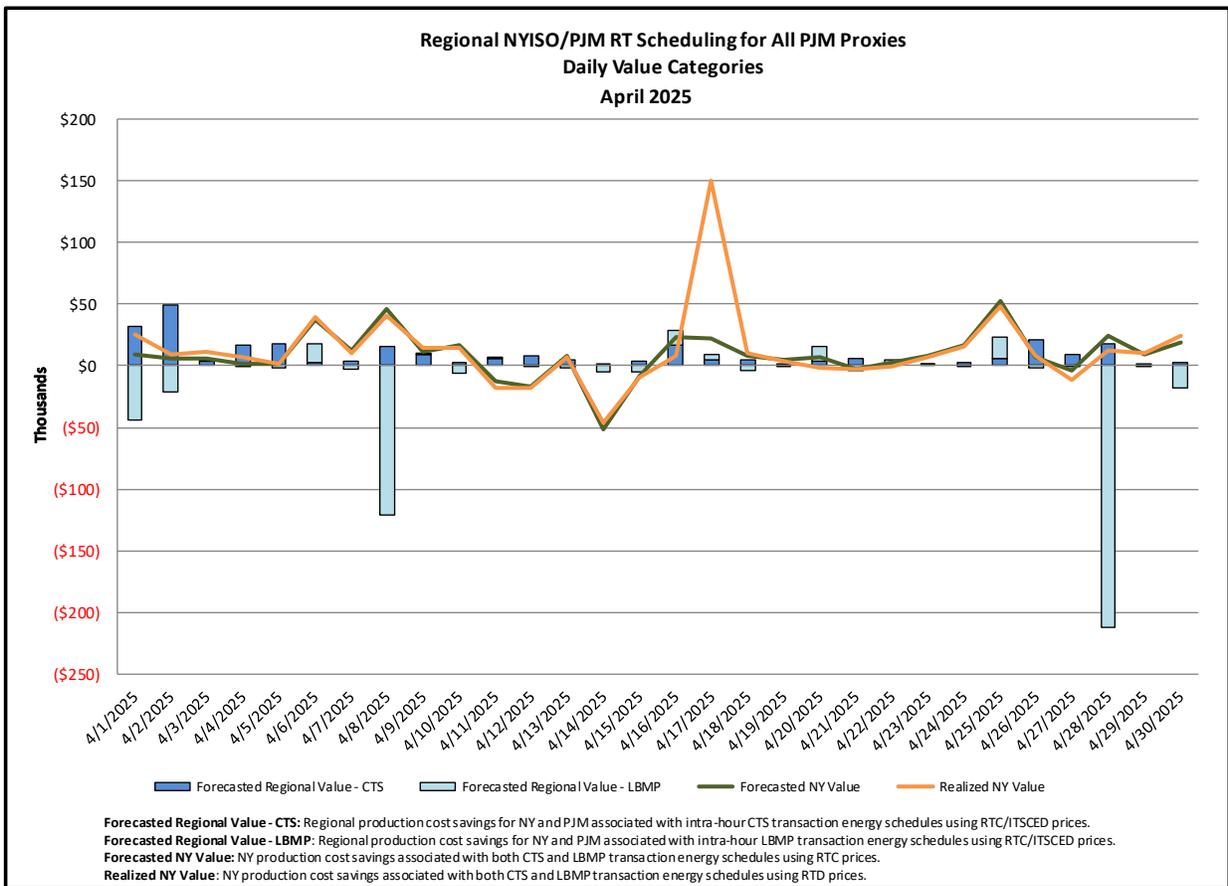
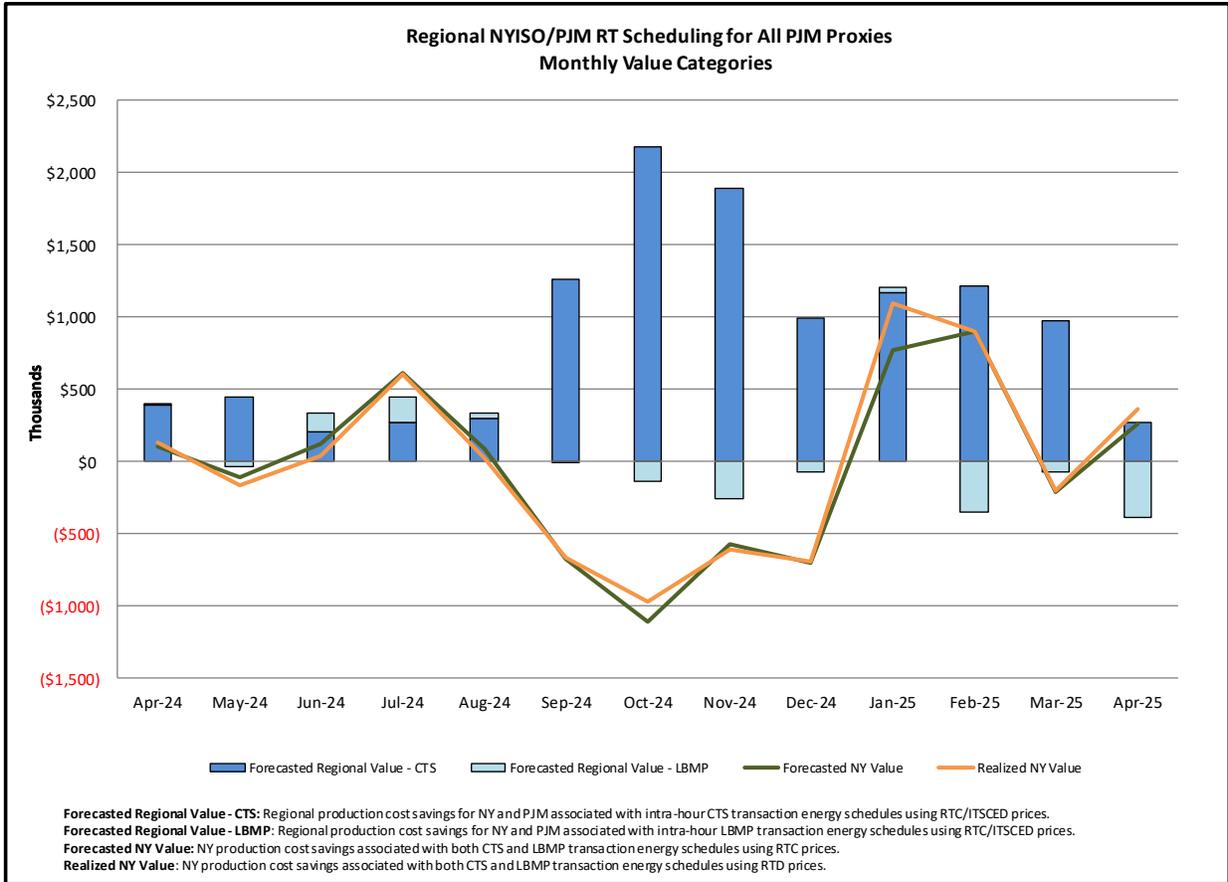


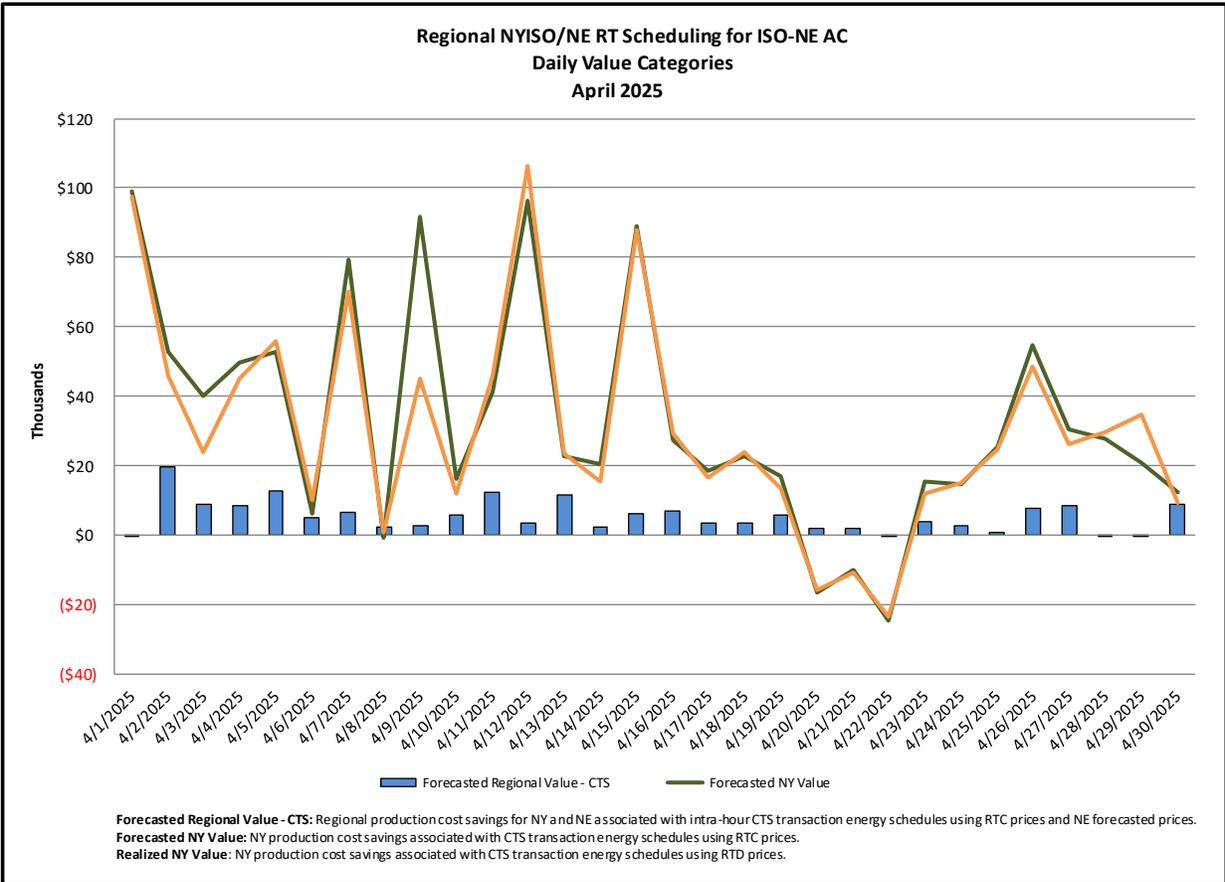
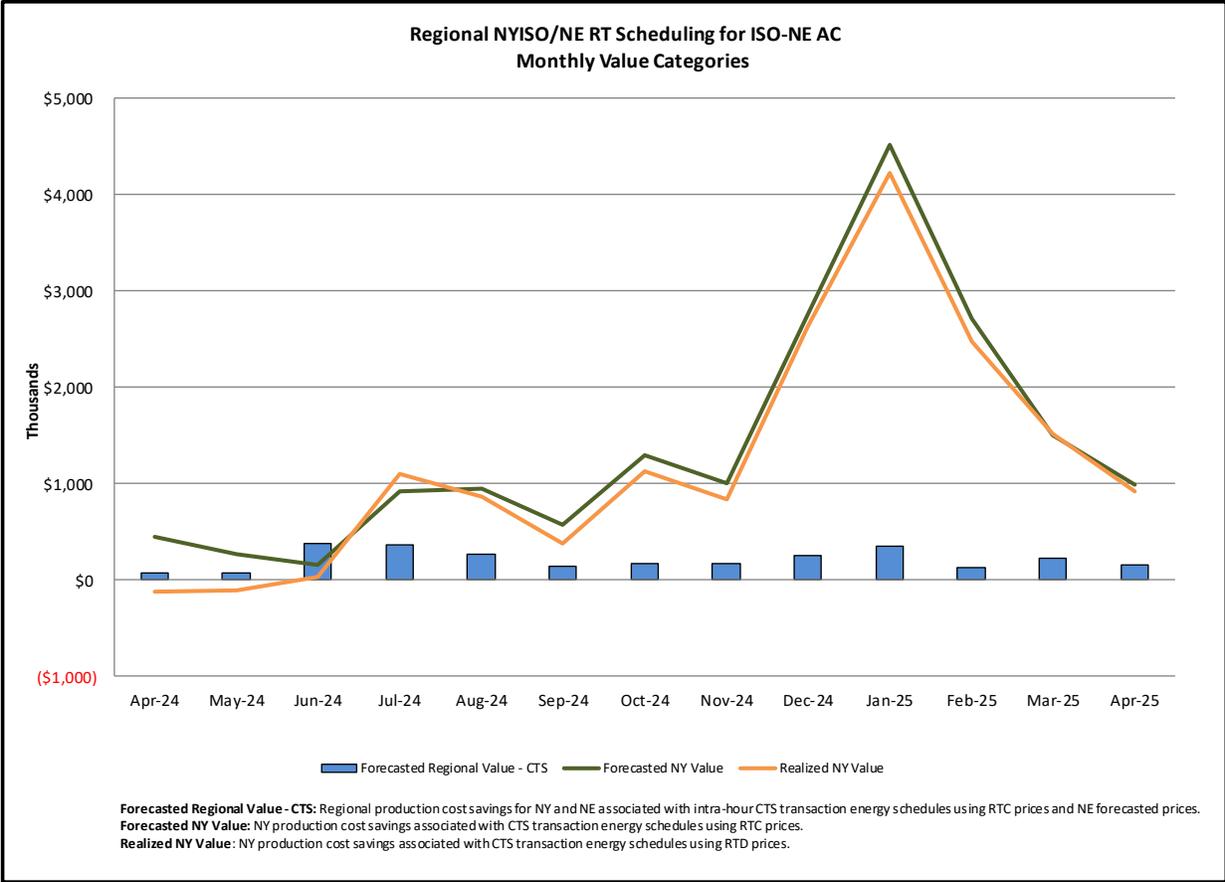
Broader Regional Market Performance Metrics



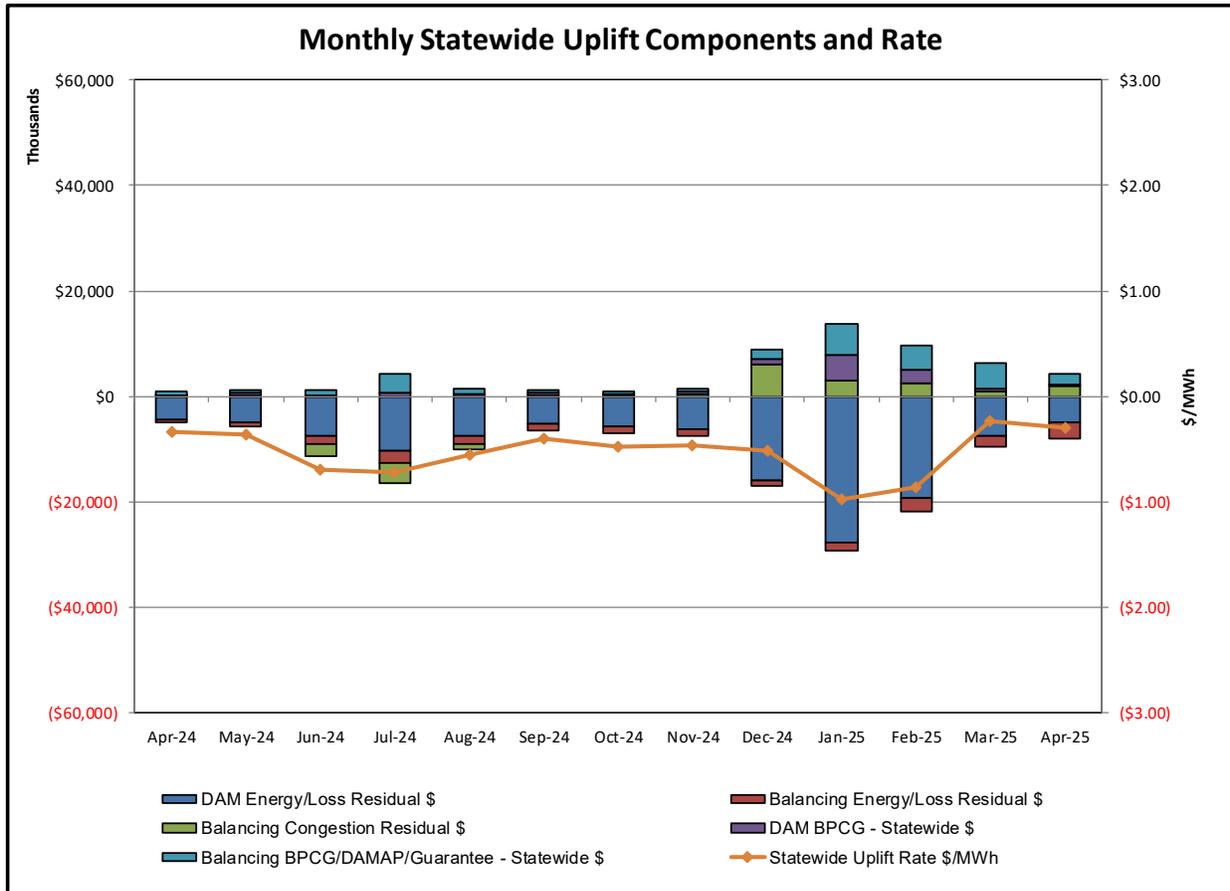
PAR Interconnection Congestion Coordination

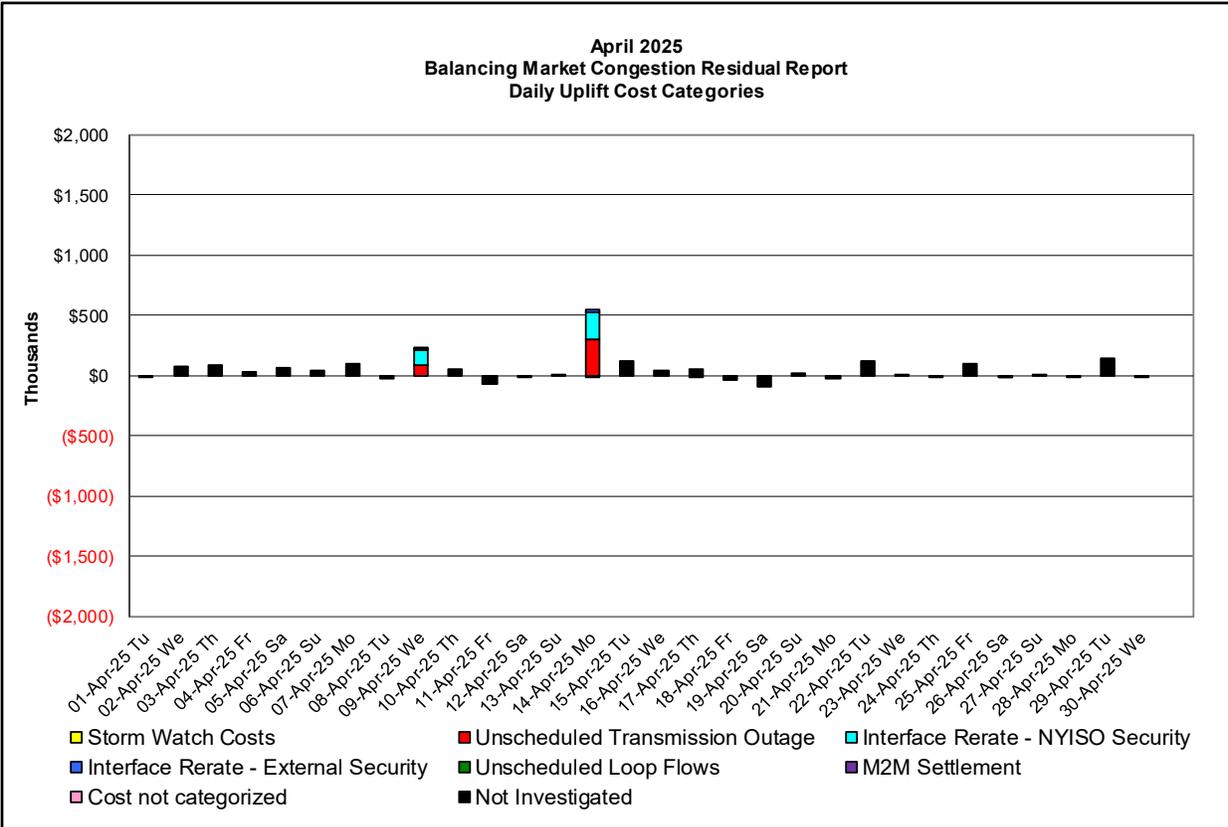
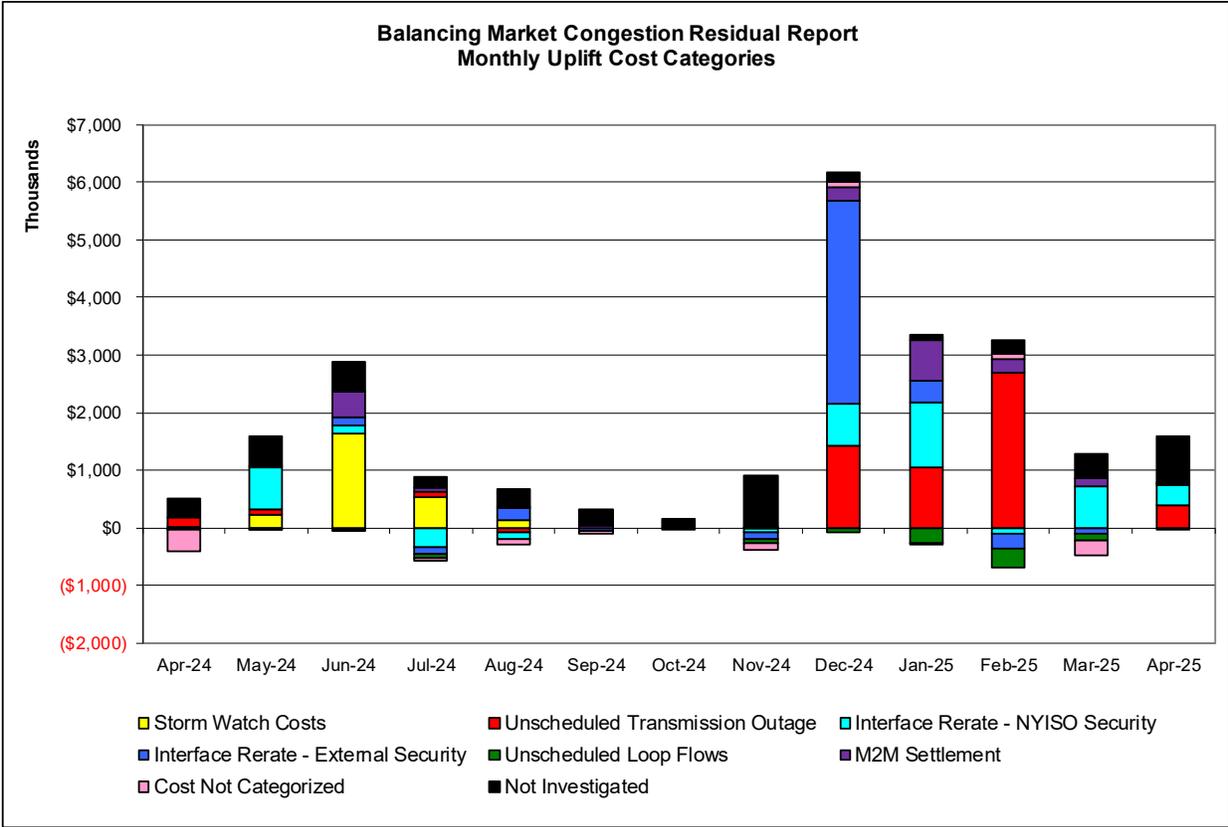
<u>Category</u>	<u>Description</u>
NY	Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY
RECO	Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo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





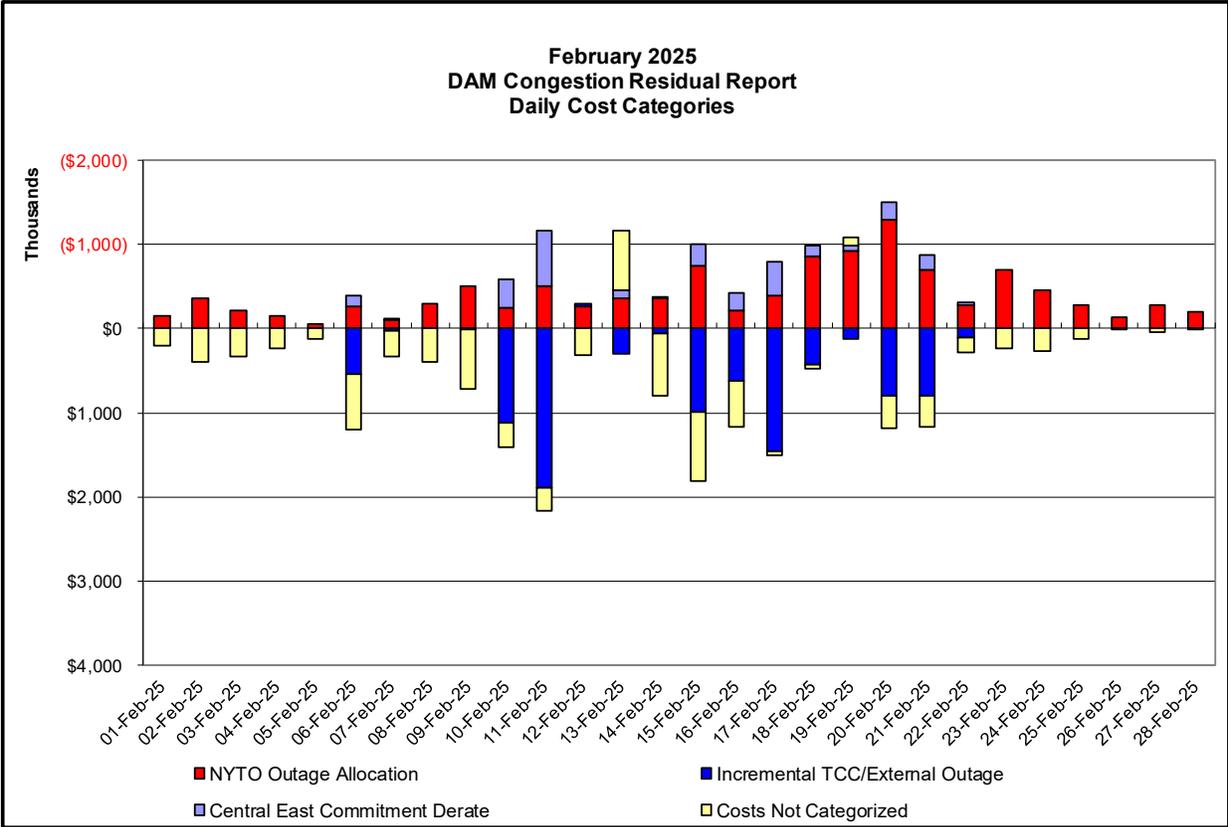
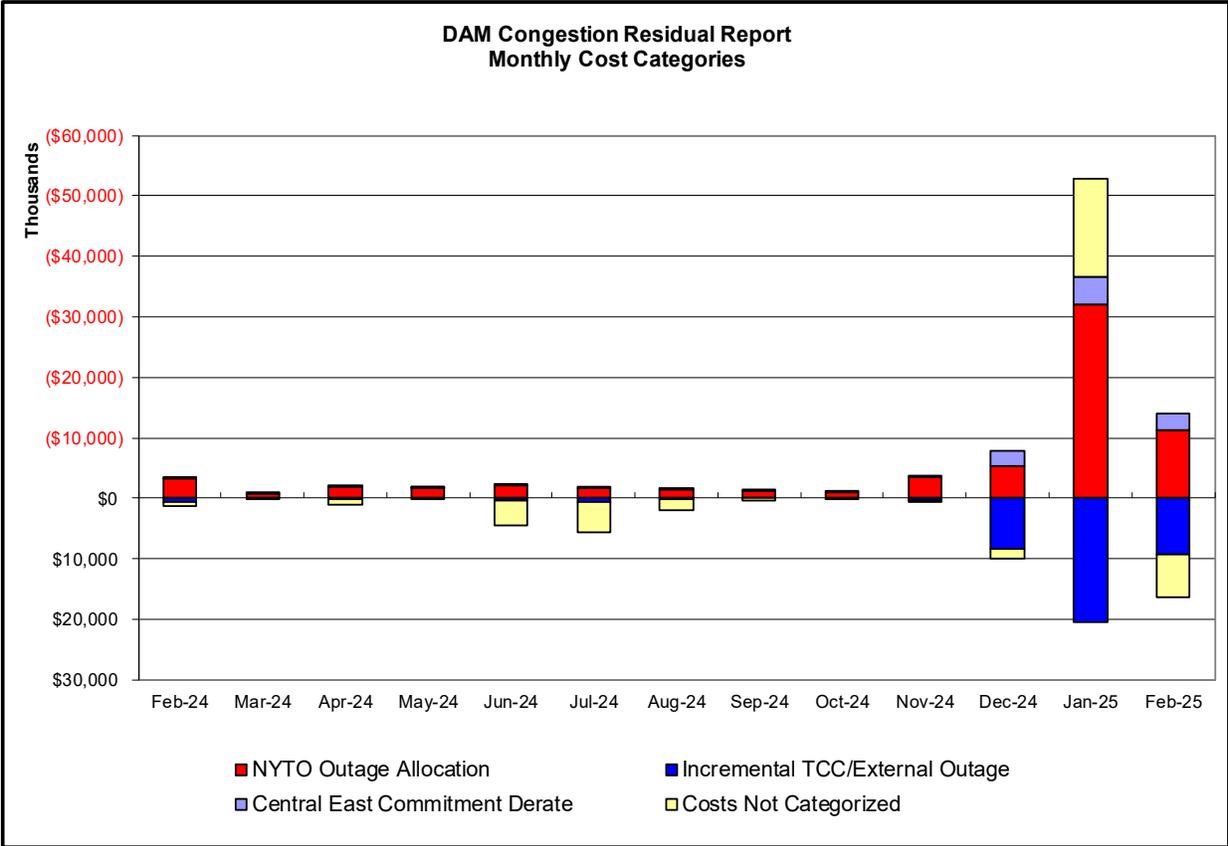
Days investigated in April: 9,14			
Event	Date (yyyymmdd)	Hours	Description
Red	4/9/2025	10-12,15-17	Forced Outage Chateauguay-Massena 765kV (#7040)
	4/9/2025	10-12,15-17	Forced Outage Marcy 765/345kV (#AT2)
	4/9/2025	10-12,15-17	Forced Outage Massena-Marcy 765kV (#MSU1)
	4/9/2025	10-12,15-17	Forced Outage Marcy-New Scotland 345kV (#18)
	4/9/2025	10-12	Forced Outage Marcy-Coopers Corners 345kV (#UCC2-41)
Cyan	4/9/2025	9-16	Forced Outage Vernon-W49th St. 138kV (#38M72)
	4/9/2025	17,19	NYCA Active DNI Ramp Limit
	4/9/2025	0	Derate Farragut - Plymthst (138kV) (#32078)
	4/9/2025	9-12,16,19-21	Derate Foxhills-Greenwood 138kV (#29232) I/o Foxhills-Greenwood 138kV (#29231)
	4/9/2025	21,23	Derate Greenwood-Vernon 138kV (#31231)
	4/9/2025	20,21,23	Derate Greenwood-Vernon 138kV (#31231) I/o GOETHALS-FRESHKLS 345 22
	4/9/2025	19-21	Derate Greenwood-Vernon 138kV (#31231) I/o GOWANUS -GOETHALS 345 25
	4/9/2025	20,21	Derate Greenwood-Vernon 138kV (#31231) I/o SCB:GOETH(5):25&R25&A2253&BK1
	4/9/2025	9-17	Derate Rainey - Vernon 138kV (#36311)
	4/9/2025	7,23	Derate Rainey - Vernon 138kV (#36312)
Blue	4/9/2025	19	NE_AC Active DNI Ramp Limit
Red	4/14/2025	7-23	Forced Outage Dunwodie-Motthaven (#72)
Cyan	4/14/2025	12-18	Derate Foxhills-Greenwood 138kV (#29231) I/o GOETHALS-FRESHKLS 345 22
	4/14/2025	9-14	Derate Foxhills-Greenwood 138kV (#29231) I/o SCB:GOETH(5):25&R25&A2253&BK1
	4/14/2025	8-11	Derate Foxhills-Greenwood 138kV (#29232) I/o Foxhills-Greenwood 138kV (#29231)
	4/14/2025	9-11	Derate Foxhills-Greenwood 138kV (#29232) I/o SCB:GOETH(5):25&R25&A2253&BK1
	4/14/2025	13,17,18	Derate Kentave-Greenwood 138kV (#31232)
	4/14/2025	21	Derate Vernon-Greenwood 138kV (#31231) I/o SIN:VERNON-GRNWD 31232 & KENT
	4/14/2025	9	Derate Rainey-Vernon 138kV (#36311)
	4/14/2025	11	Derate Freshkils 345/138kV (#TA1) I/o SCB:FRESHKIL(6):22&TB1&21192
Blue	4/14/2025	16	NE_AC 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	

Monthly Balancing Market Congestion Report Assumptions/Notes

- 1) Storm Watch Costs are identified as daily total uplift costs
- 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.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour



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.	

