



# Operations Performance Metrics Monthly Report

A Report by the  
New York Independent System Operator

**October 2025**

*Prepared by NYISO Operations Analysis and Services, based on settlements  
initial invoice data collected on or before November 10, 2025.*

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## October 2025 Highlights



### Monthly Metered Load



Peak Load	Minimum Load
20,278 MW 10/06/2025 HB 18	12,285 MW 10/12/2025 HB 04





### Historical Metered Load Peaks

Summer 2025 Peak Load	All-Time Summer Peak Load
31,857 MW 06/24/2025 HB 18	33,956 MW 07/19/2013 HB 16

### Monthly Intermittent Resource Peaks

	
Peak Wind	Peak Solar (FTM+BTM)
2,389 MW 10/31/2025 HB 14	4,502 MW 10/01/2025 HB 12

### Historical Intermittent Resource Peaks

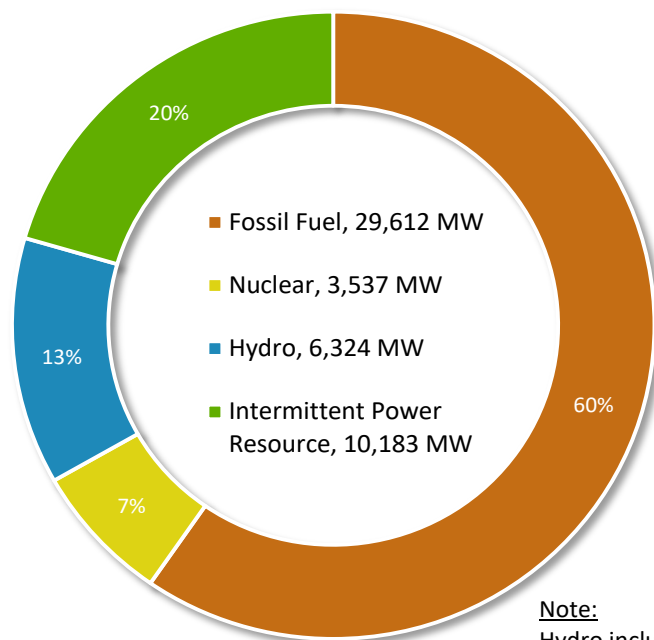
	
All-Time Peak Wind	All-Time Peak Solar (FTM+BTM)
2,389 MW 10/31/2025 HB 14	4,809 MW 04/17/2025 HB 12

## Notable NYCA System Events

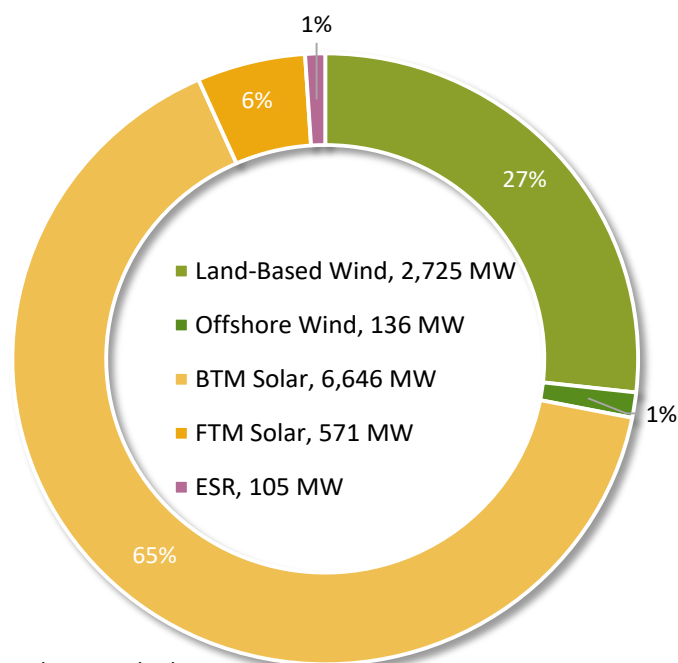
- Moses-Haverstock 230kV (#MH2 and #MH3), Haverstock-WillisAnnex 345kV (#HW2), Haverstock 345/230kV (#AT2 and #AT3), WillisAnnex-Ryan 230kV (#WRY-1), WillisAnnex-Patnode 230kV (#WPN-1), WillisAnnex-Willis 230kV (#W1), and WillisAnnex 345/230kV (#TR2) transmission facilities associated with Smart Path Connect were placed in-service incrementally throughout October 2025.
- Revised Moses South Stability, Northern Export Stability and Cedars Import Stability limits due to topology changes associated with Smart Path Connect transmission buildout were employed in EMS/BMS. The limits were presented and approved for use at the October Operating Committee meeting
- To manage high system voltages, at least one SVC or Statcom was operated out of normal 70% of hours in the month and the following 345kV transmission facilities were taken out of service; Marcy-Coopers Corners 345kV (#UCC2-41), Coopers Corners-Dolson Ave 345kV (#CCDA-42), Sprainbrook-Academy 345kV (#M29), Rainey-Farragut 345kV (#61).
- NYISO called External ICAP suppliers on 10/20 HB16-23.
- NYISO's Day-Ahead Demand Response Program (DADRP) and Demand Side Ancillary Services Program (DSASP) were sunset on 10/31 in accordance with the Distributed Energy Resource (DER) model.

# NYCA Generation Mix

Generation Nameplate  
by Fuel Type

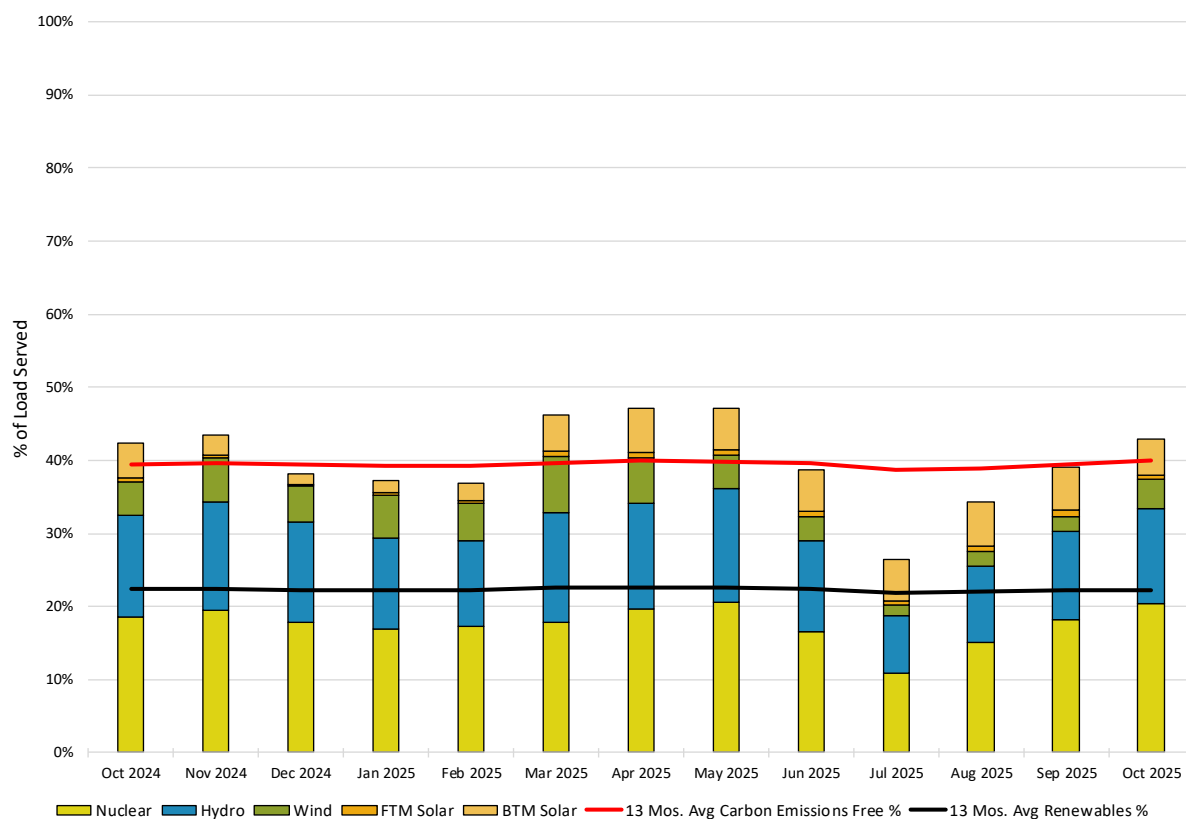


Intermittent Power  
Resource Nameplate



Note:  
Hydro includes pumped storage hydro  
ESR includes LESR

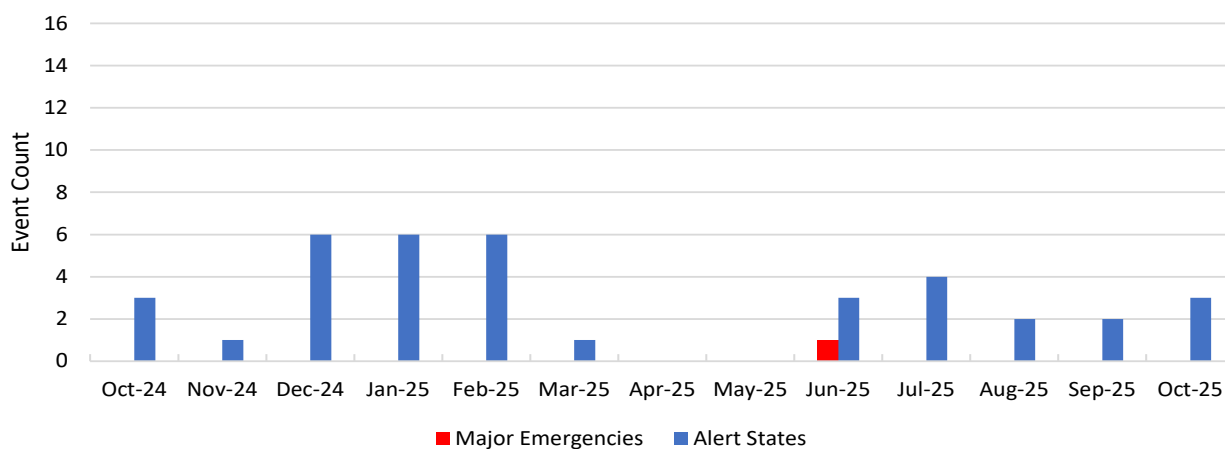
NYCA Load Served by Emissions-Free NYCA Generation



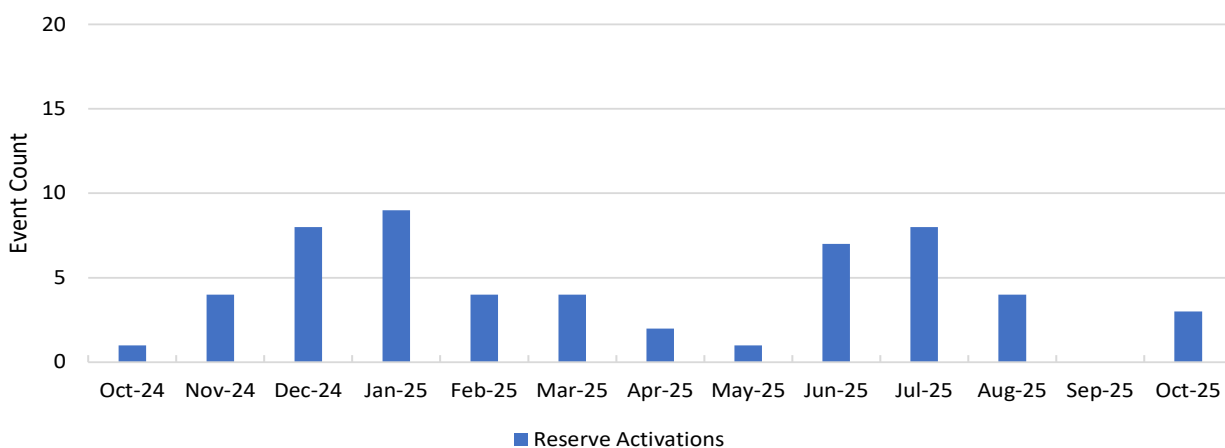
# Reliability Performance Metrics

See [Appendix A](#) for metric definitions

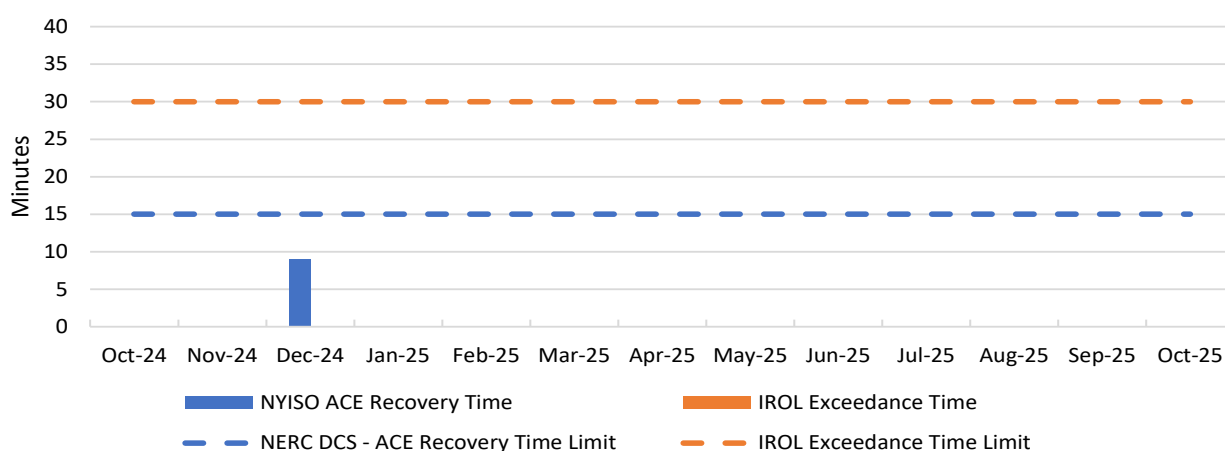
## Major Emergency State & Alert State Declarations



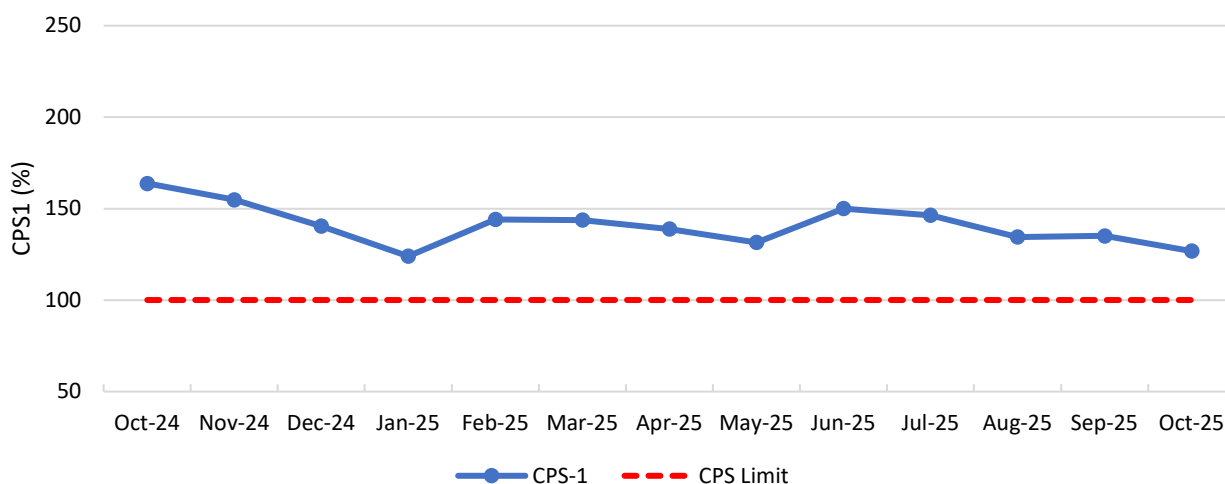
## Reserve Activations



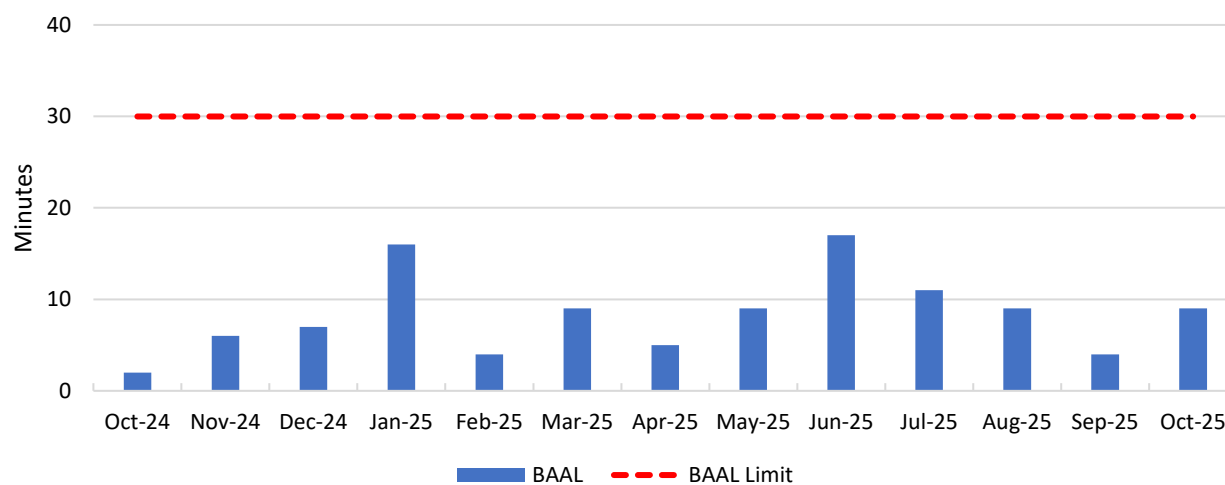
## NERC IROL and DCS Reportable Violation Minutes



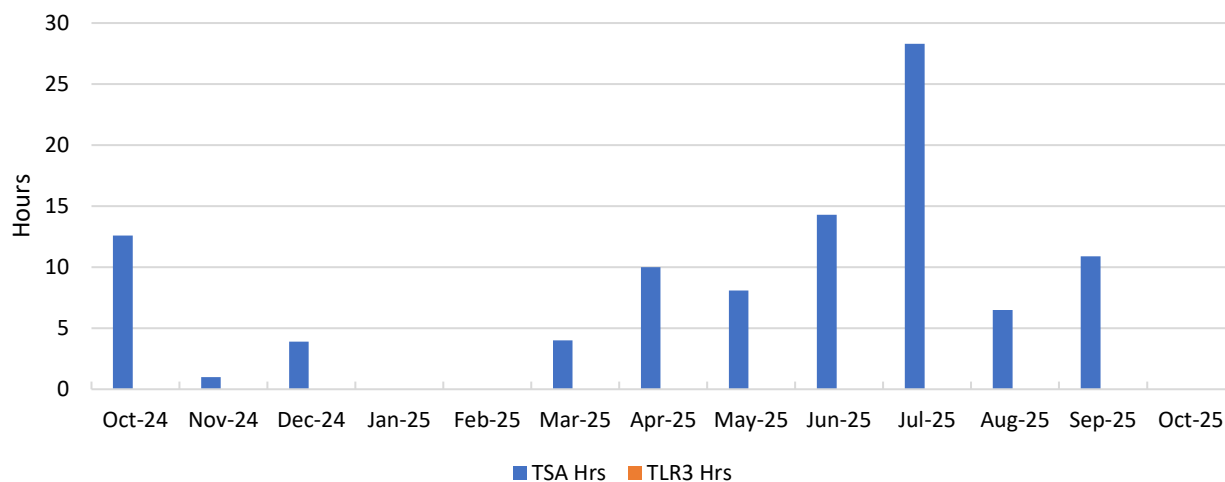
### NERC Control Performance Standard

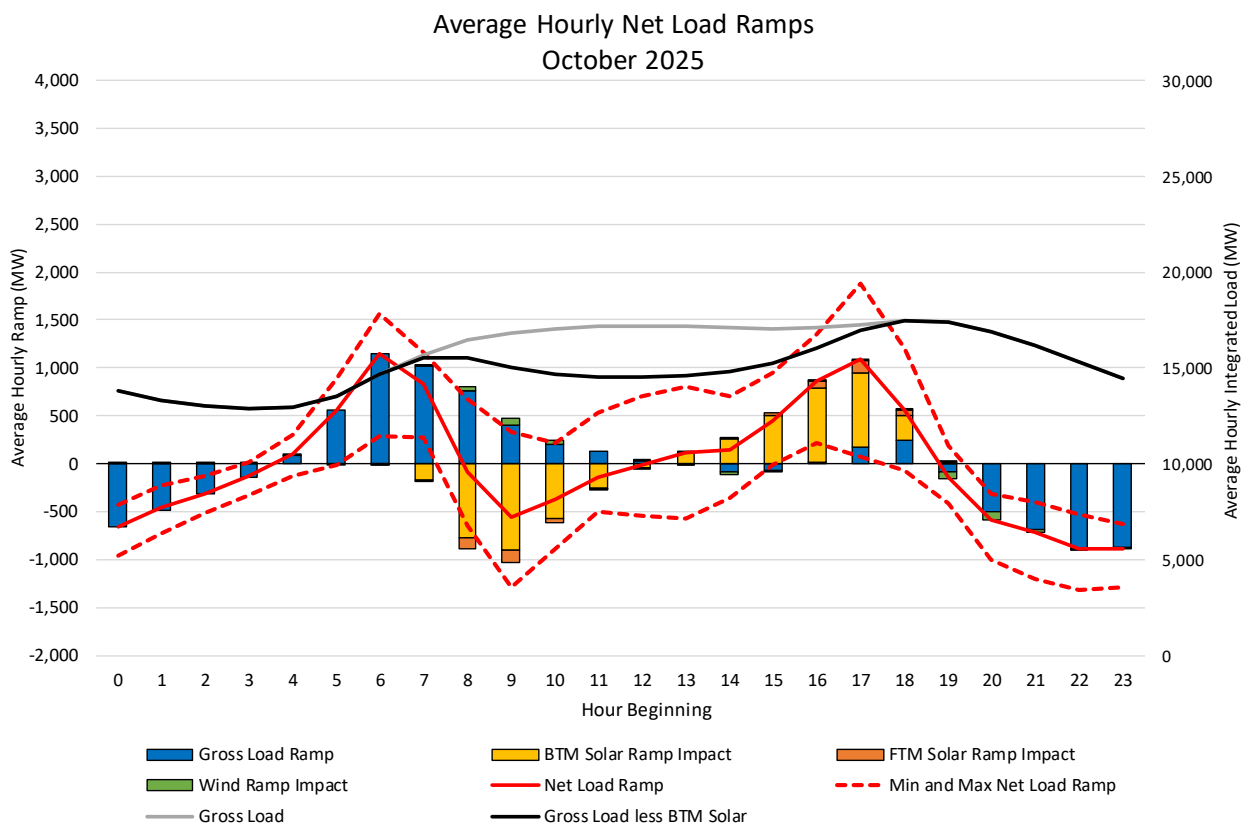
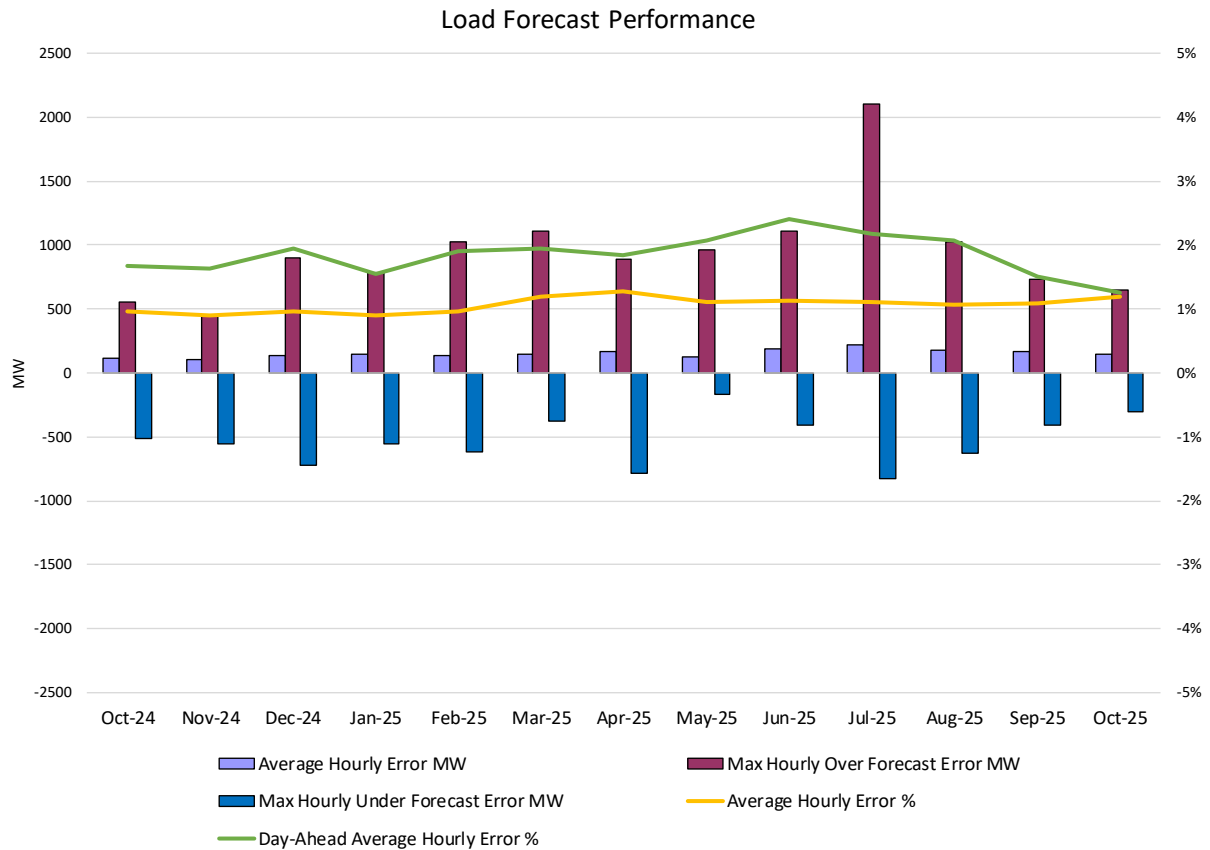


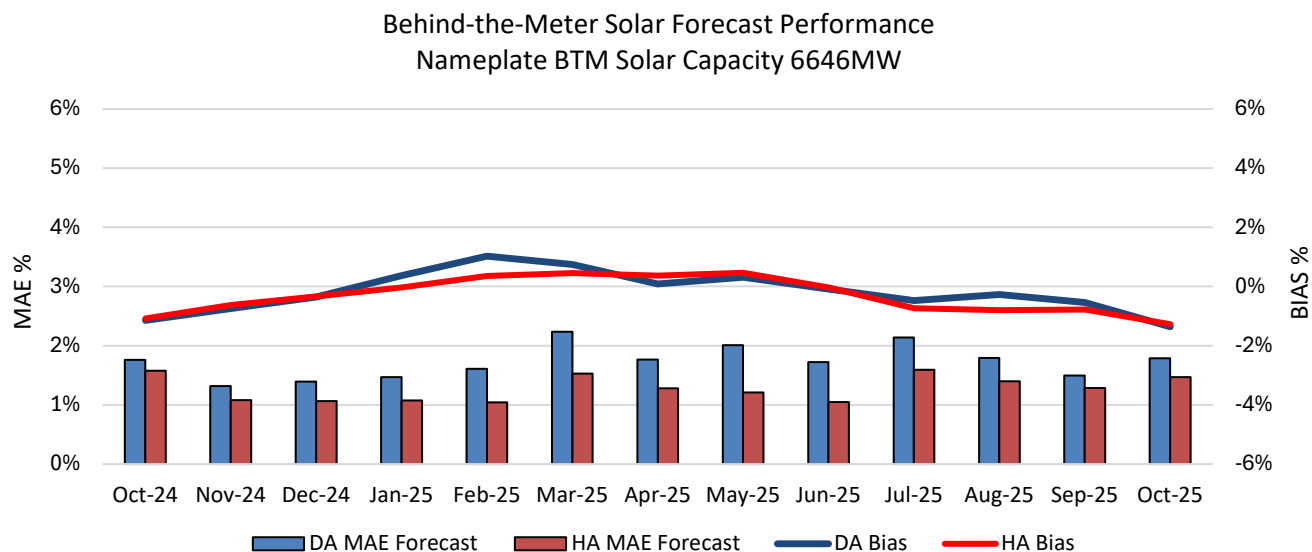
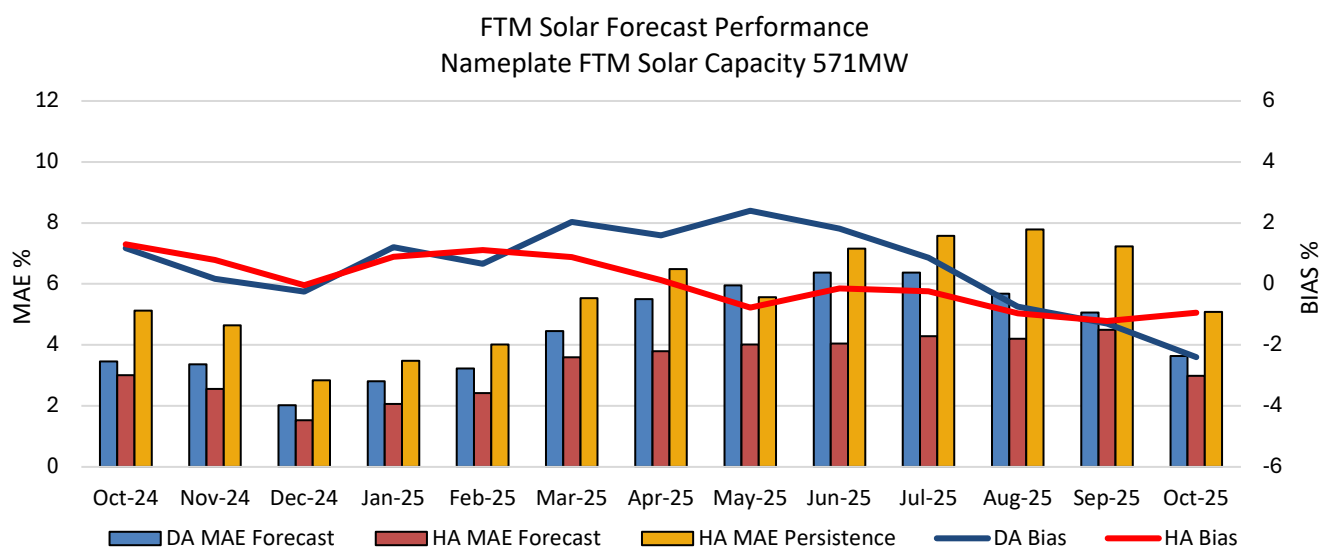
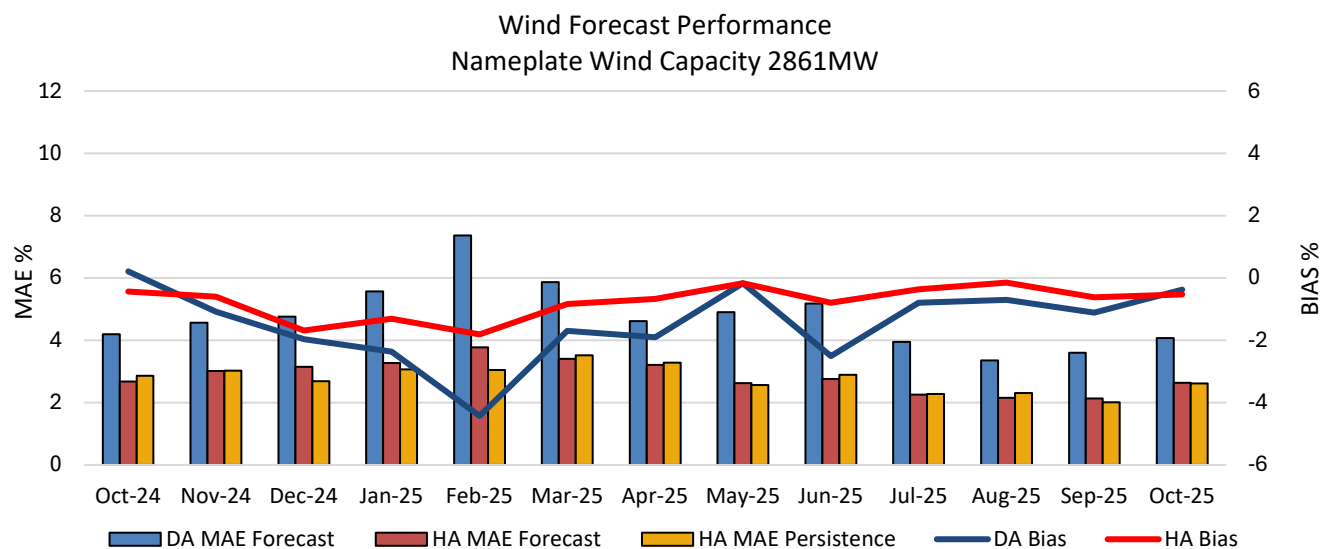
### NERC Balancing Authority ACE Limit Standard



### Thunderstorm Alert Hours and NERC TLR-3 Hours

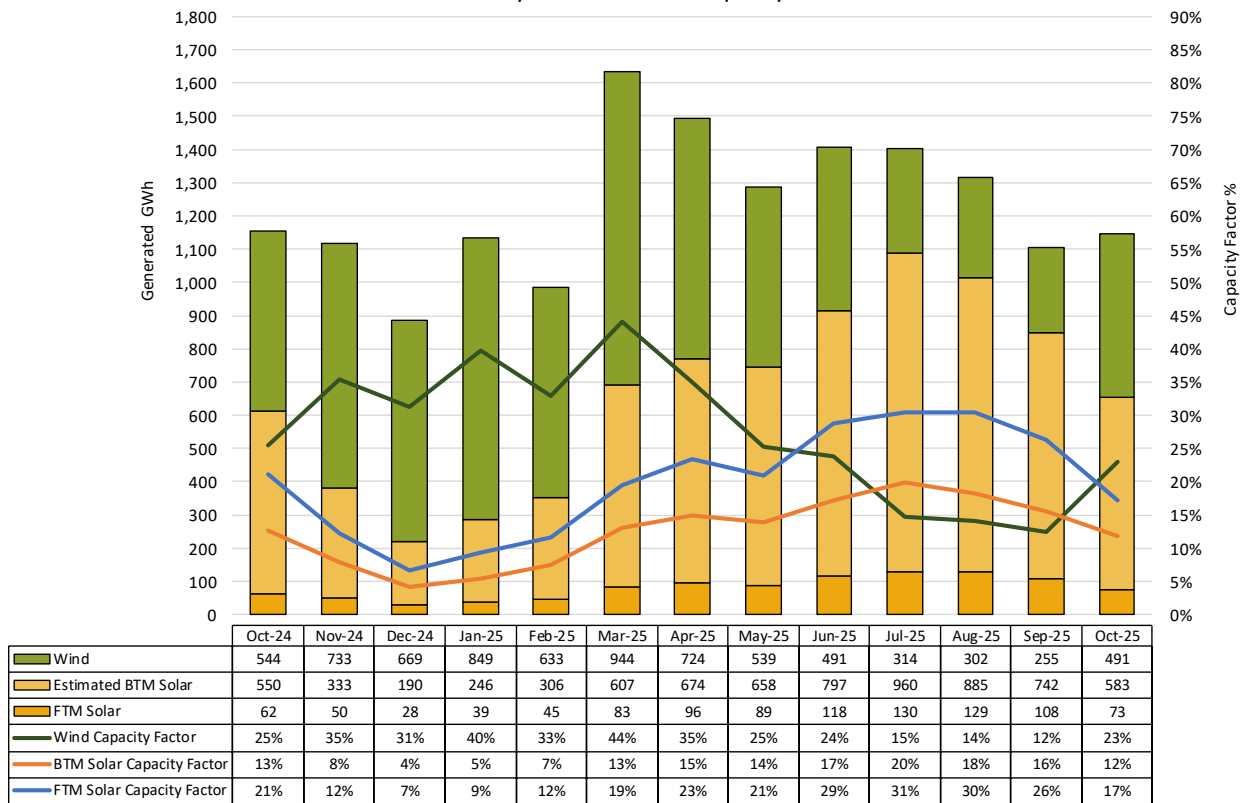




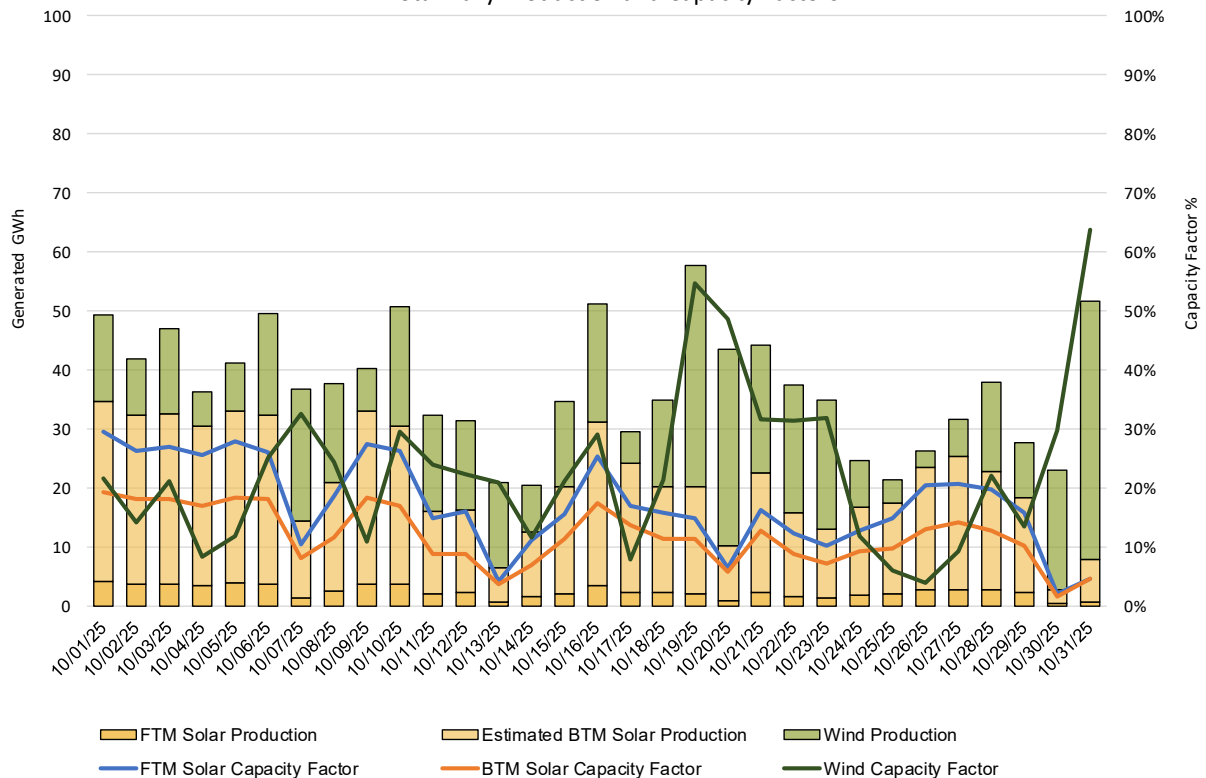




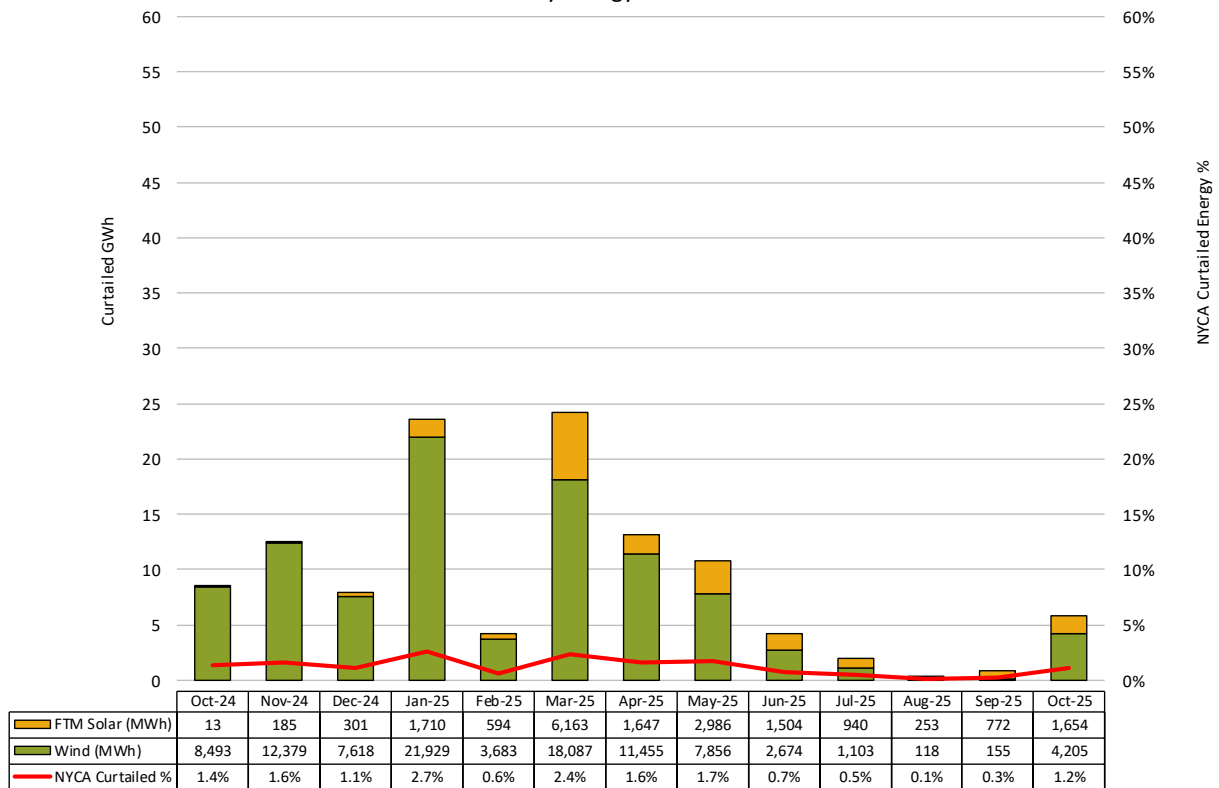
### Net Wind and Solar Performance Total Monthly Production and Capacity Factors



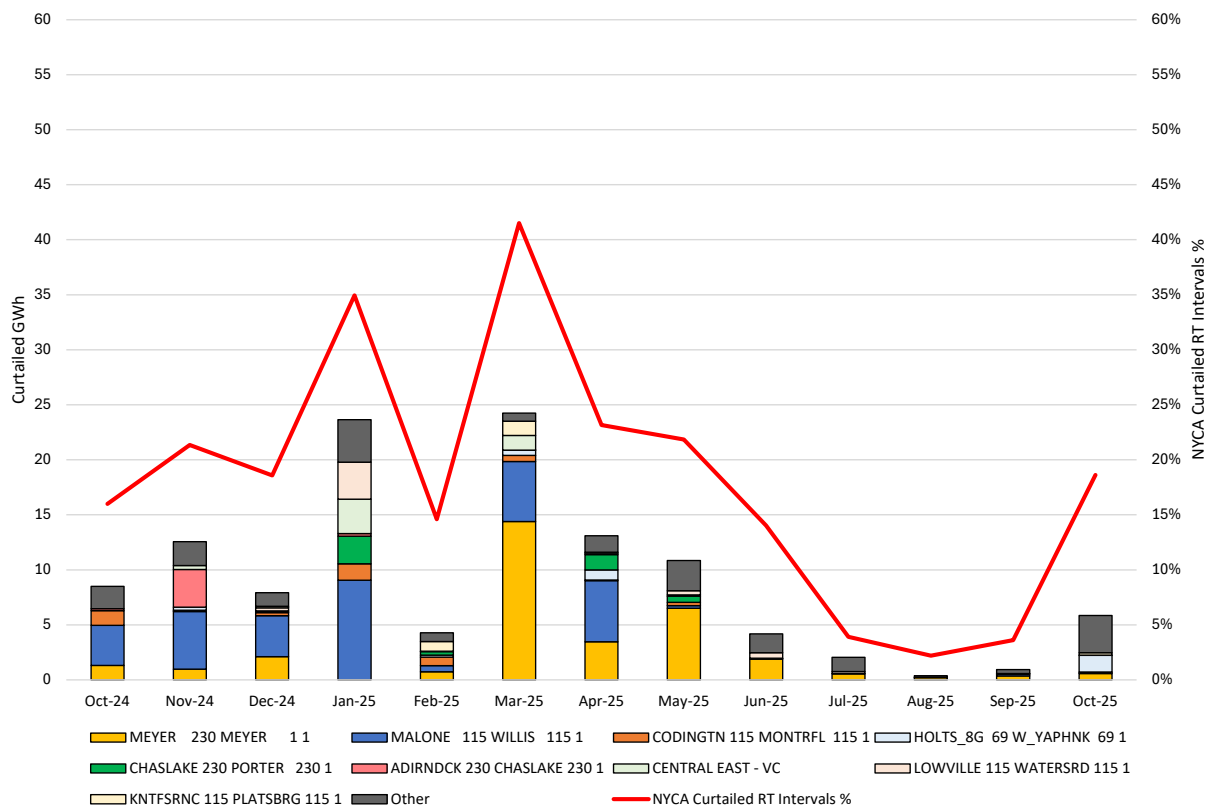
### Net Wind and Solar Performance Total Daily Production and Capacity Factors

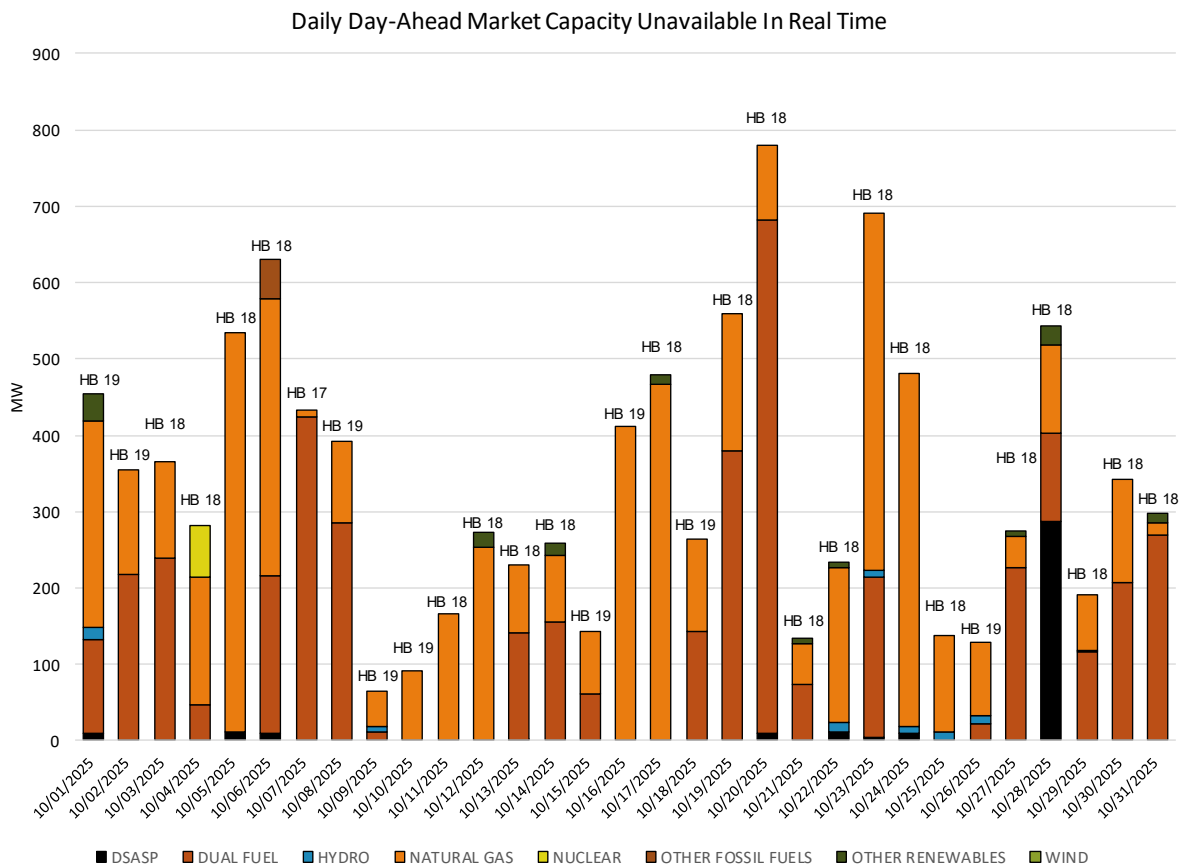
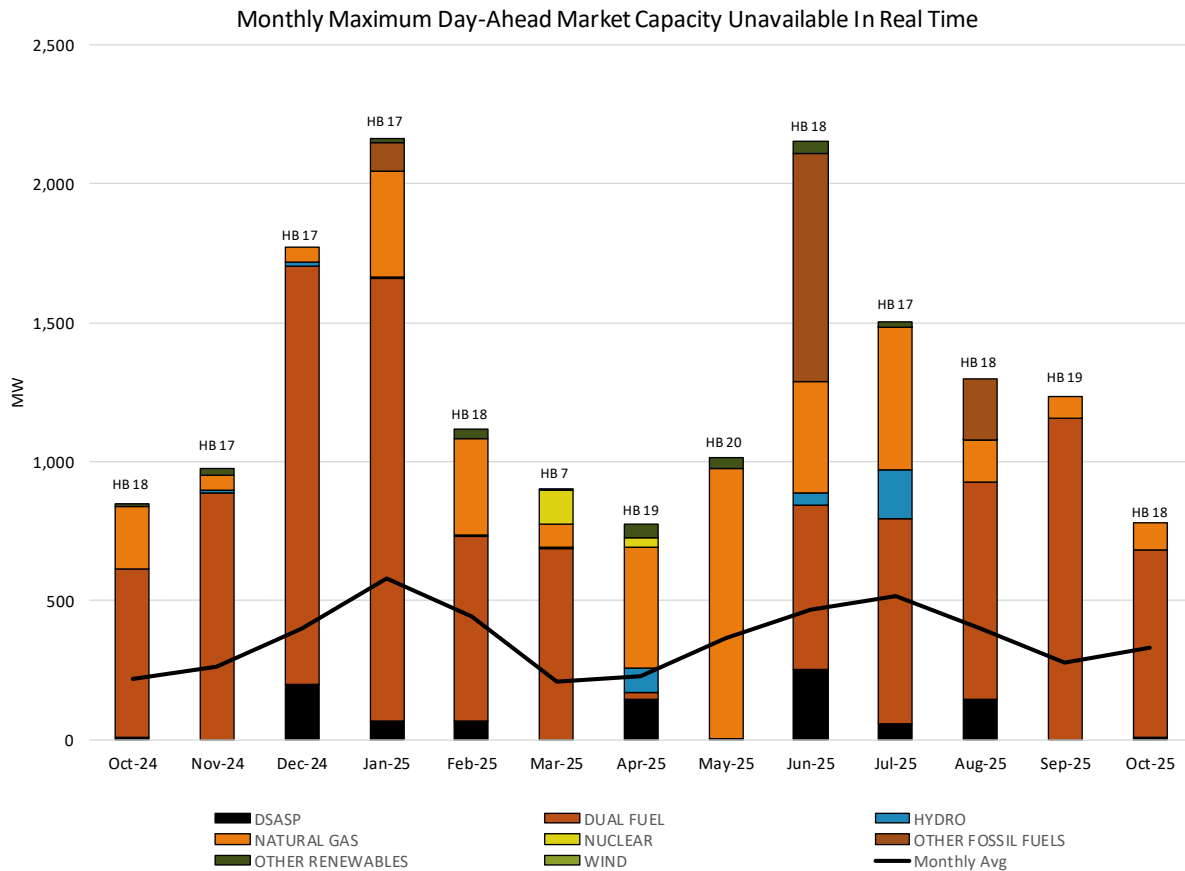


### Net Wind and FTM Solar Performance Monthly Energy Curtailment

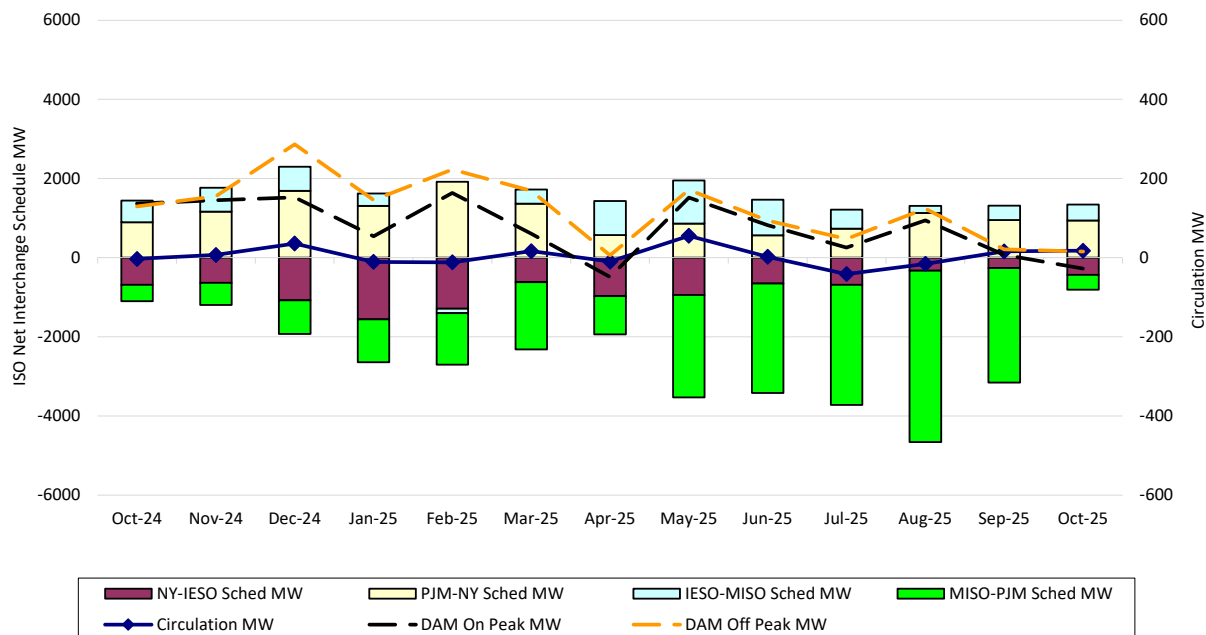


### Net Wind and FTM Solar Performance Monthly Energy Curtailment by Limiting Constraint



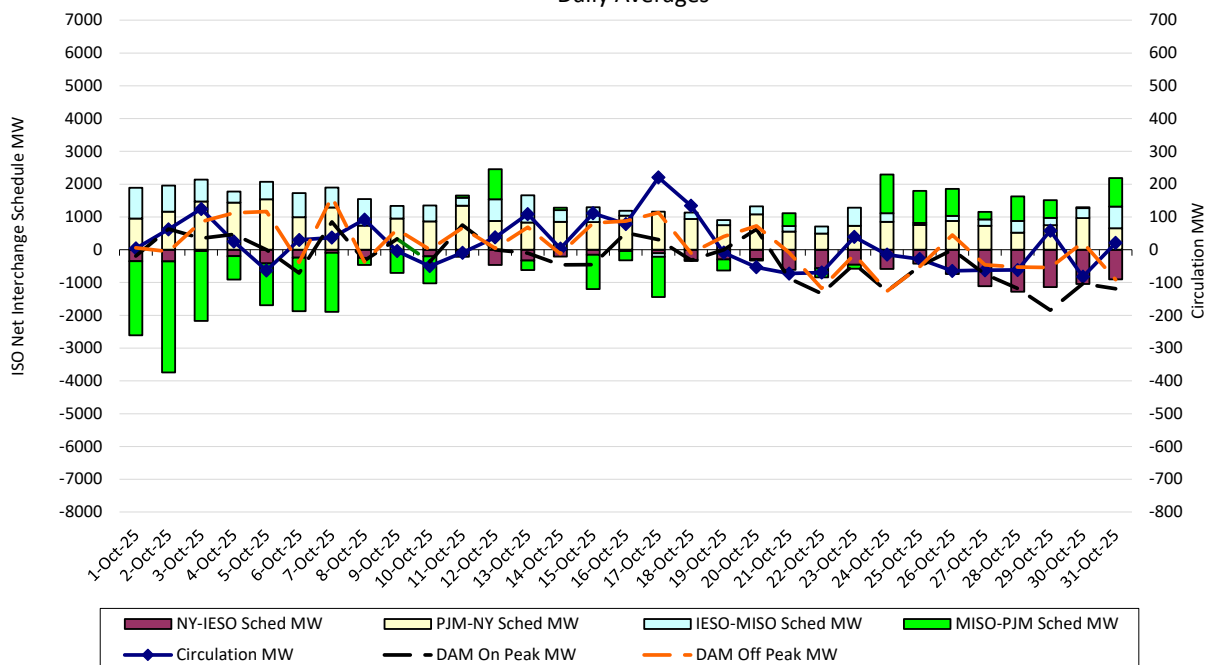


Lake Erie Circulation and ISO Net Interchange Schedules  
Monthly Averages



Interchange schedules with positive values aggravate clockwise Lake Erie Circulation.

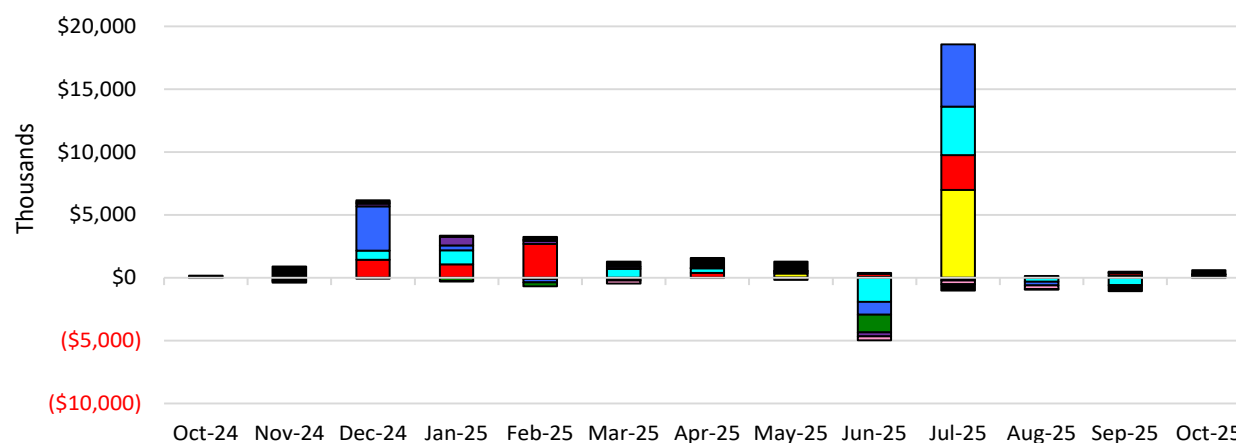
Lake Erie Circulation and ISO Net Interchange Schedules  
Daily Averages



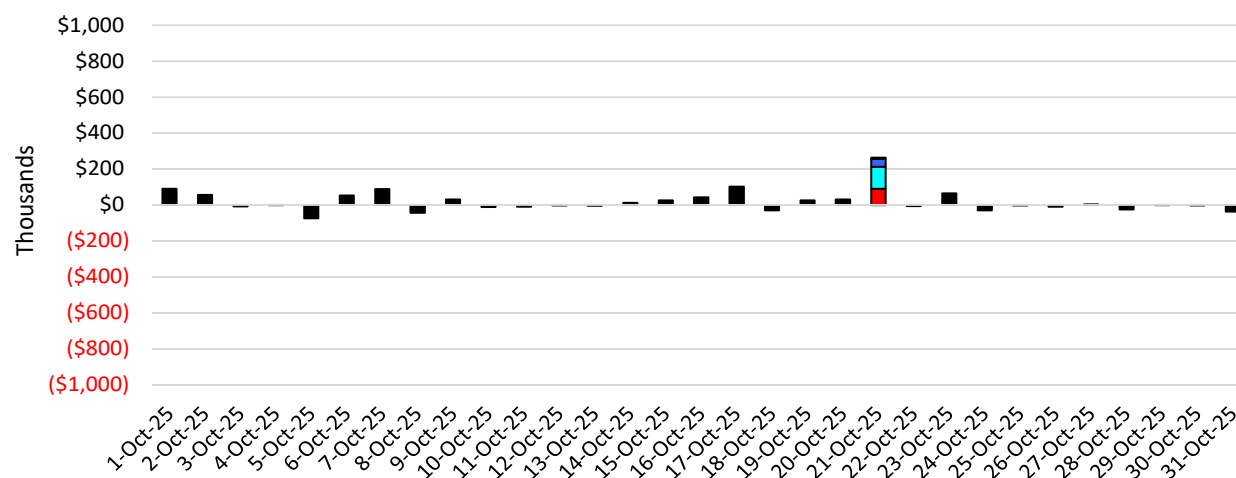
Interchange schedules with positive values aggravate clockwise Lake Erie Circulation.

# Market Performance Metrics

## Balancing Market Congestion Residual Monthly Uplift Cost Categories



## Daily Uplift Cost Categories



## Real-Time Balancing Market Congestion Residual Categories

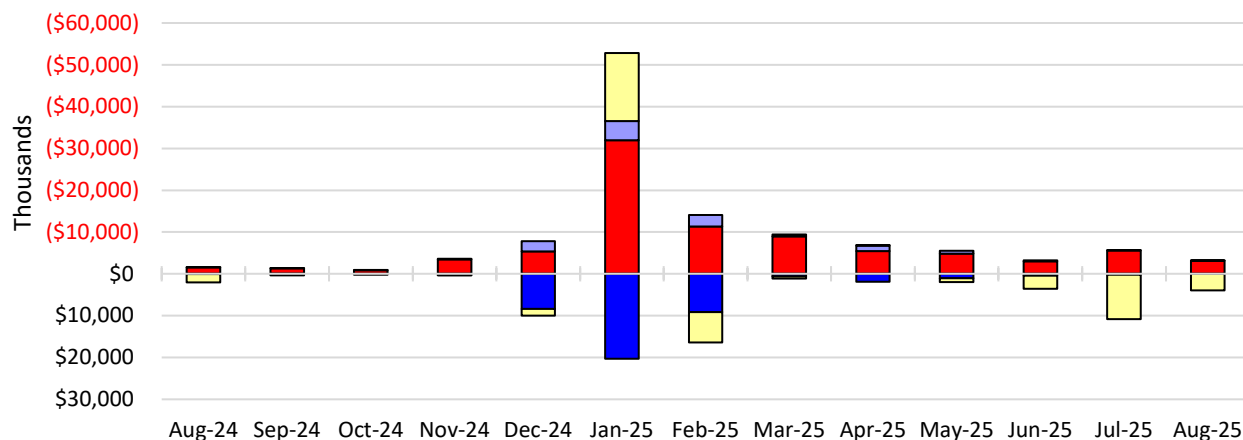
Category	Cost Assignment	Events Types	Event Examples
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations
Transmission Outage Mismatch	Market-wide	Changes in DAM to RTM transfers related to transmission outage mismatch	Forced Line Outages, Unit AVR Outages, Early Line Return from Outage
Interface/Facility 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 Flow exceeding +/-125MW
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and Ramapo flowgates	
Cost Not Categorized	Market-wide		
Not Investigated	Market-wide		

### Monthly Balancing Market Congestion Report Assumptions/Notes

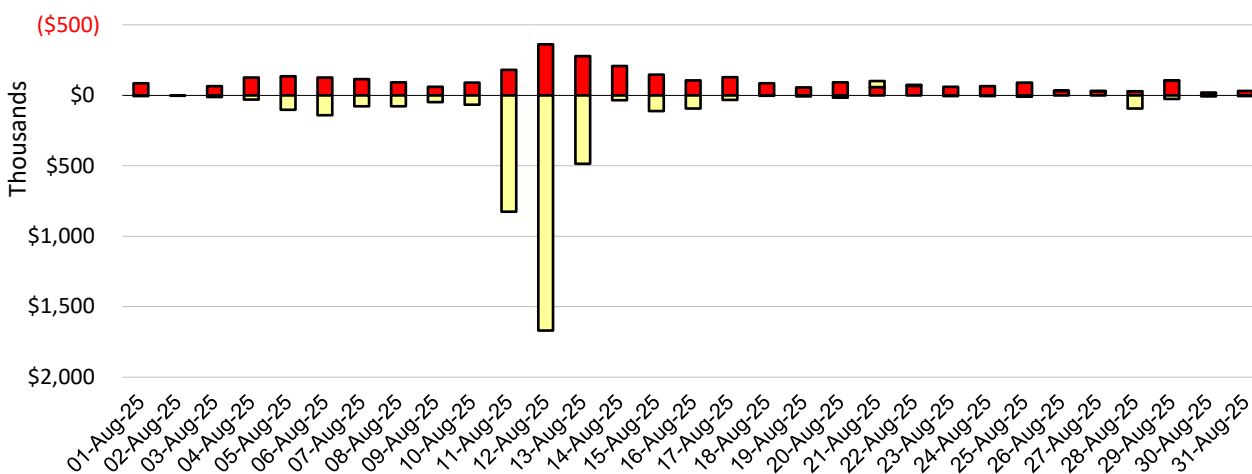
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

Days investigated in October: 21			
Event	Date (yyyymmdd)	Hours	Description
	10/21/2025	1-4,6-8	Forced Outage Haverstock-Willis Annex 345kV (#HW2)
	10/21/2025	2-4,6-8	Forced Outage Moses-Haverstock 345kV (#MH2)
	10/21/2025	2-4,6-8	Forced Outage Haverstock 345/230kV (#AT2)
	10/21/2025	11-14,16,17	Derate Barrett-Freeport 138kV (#459)
	10/21/2025	1	Derate Duley-Platsburgh 230kV (#DP1)
	10/21/2025	8,16-22	Derate Elwood-Northport 138kV (#678)
	10/21/2025	7,8	Derate Falconer-MoonRoad 115kV (#176) I/o Falconer-MoonRoad 115kV (#175)
	10/21/2025	11-14,16-22	Derate Holts_8G-West Yaphank 69kV (#853) I/o TWR SillsRd 872&873
	10/21/2025	11-14,17,18	Derate LakeSuccess-ShoreRd 138kV (#368)
	10/21/2025	11-14,16-18	Derate Dunwoodie-Motthaven 345kV (#71) I/o SCB:DUNW(7):W75&72
	10/21/2025	7,8,13,14,16,17	Derate Newbridge-StewartAve 138kV (#462) I/o SCB:PLSNTVLY(RN2):F83
	10/21/2025	18	Derate Newbridge-StewartAve 138kV (#462)
	10/21/2025	11	Derate WoodSt-PleasantVly 345kV (#F31) I/o TWR:PVLE F38&F39&Y86&Y87&BK1
	10/21/2025	12-14	NE_NNC1385 Scheduling Limit
	10/21/2025	17,18	NE_AC Active DNI Ramp Limit

## DAM Congestion Residual Monthly Cost Categories

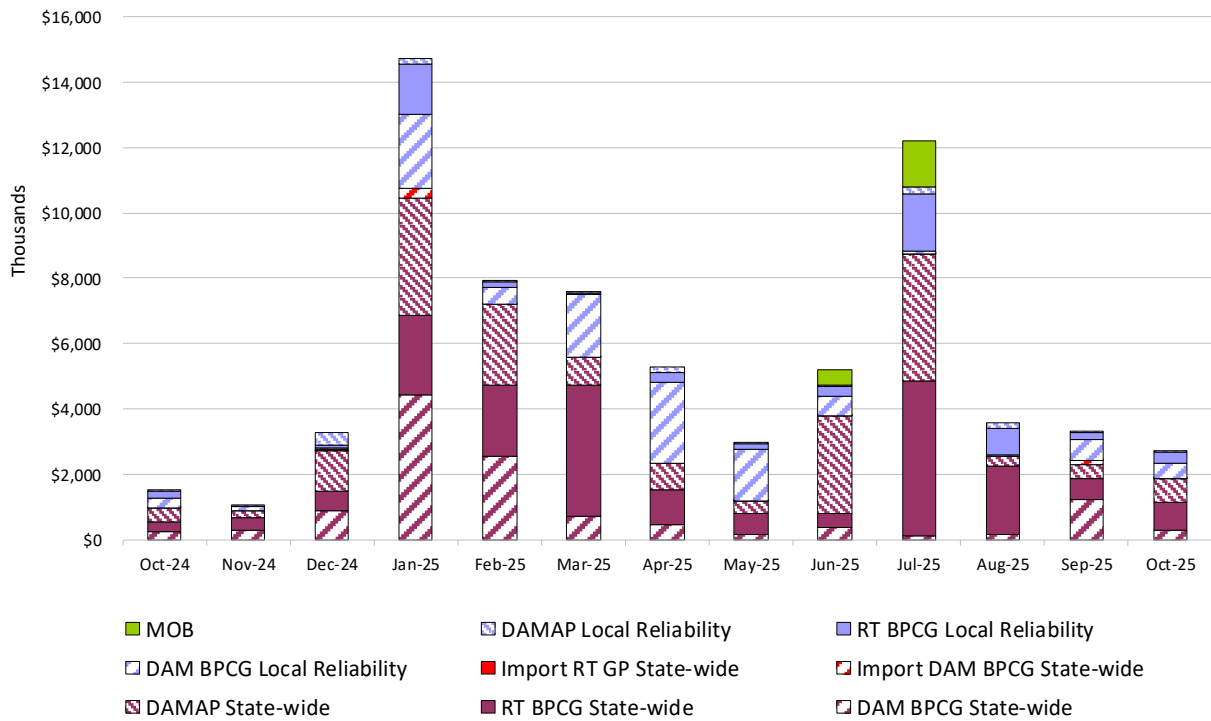


## Daily Cost Categories

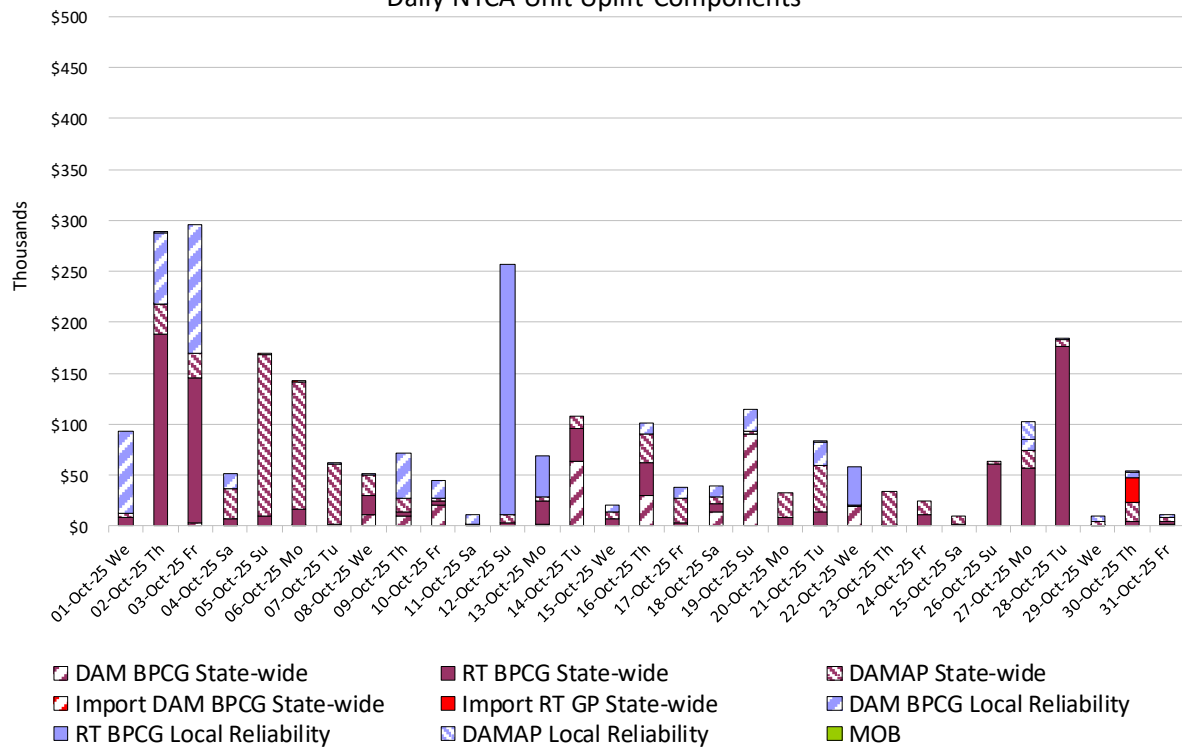


DAM Congestion Residual Categories			
Category	Cost Assignment	Events Types	Event Examples
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
Incremental TCC/External 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.	
Cost Not Categorized	All TO by Monthly Allocation Factor		

### Monthly Power Supplier Uplift Components

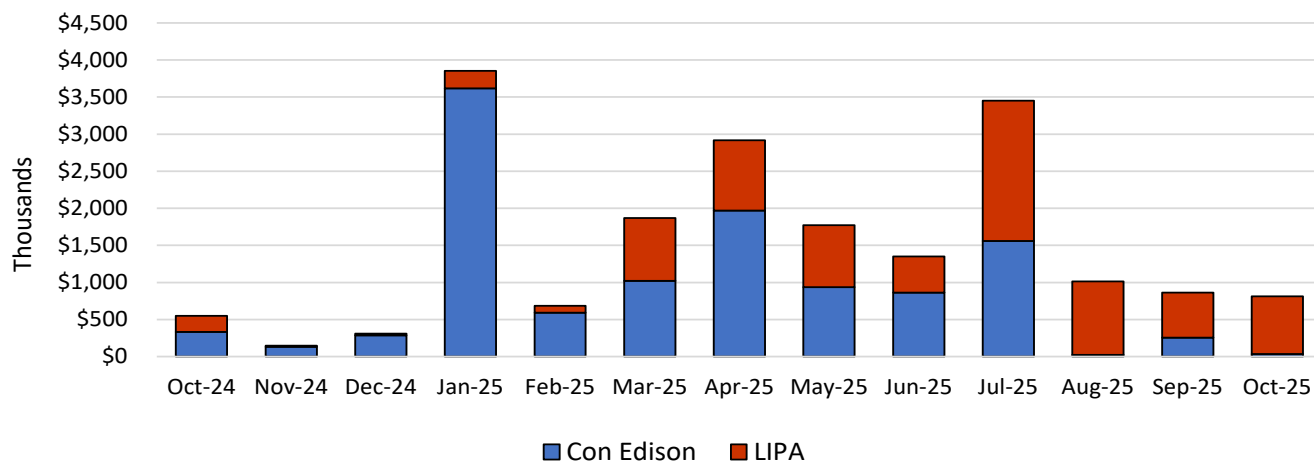


### October 2025 Daily NYCA Unit Uplift Components

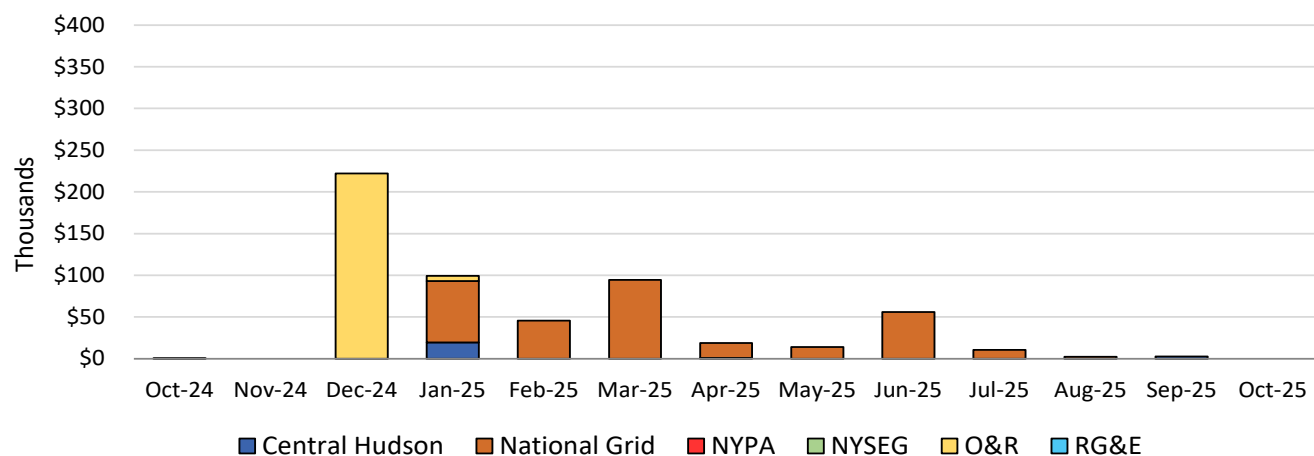




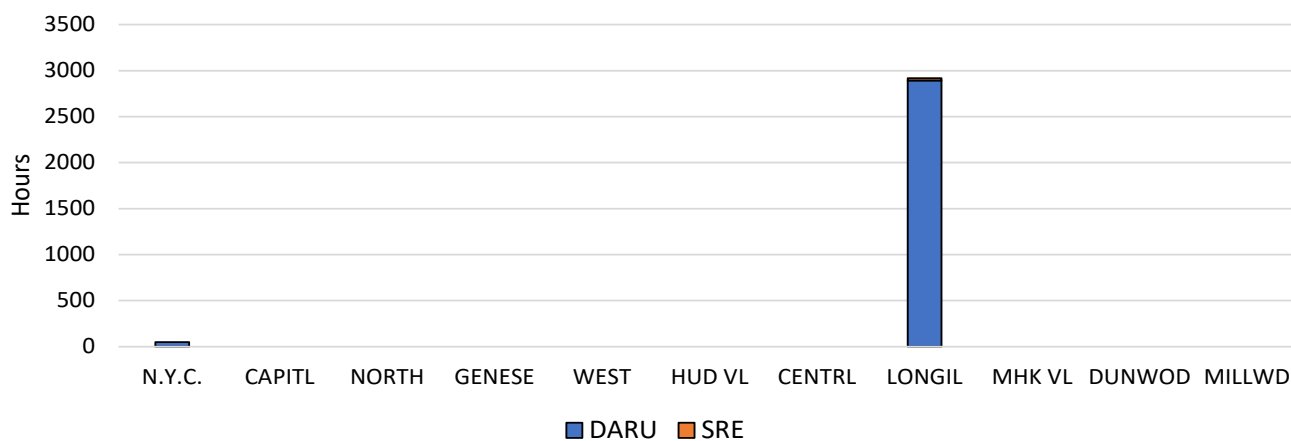
### Local Reliability Cost - NYC & LONGIL Monthly RT BPCG, DAM BPCG, DAMAP & Minimum Oil Burn Costs



### Local Reliability Cost - Rest of State Monthly RT BPCG, DAM BPCG & DAMAP Costs

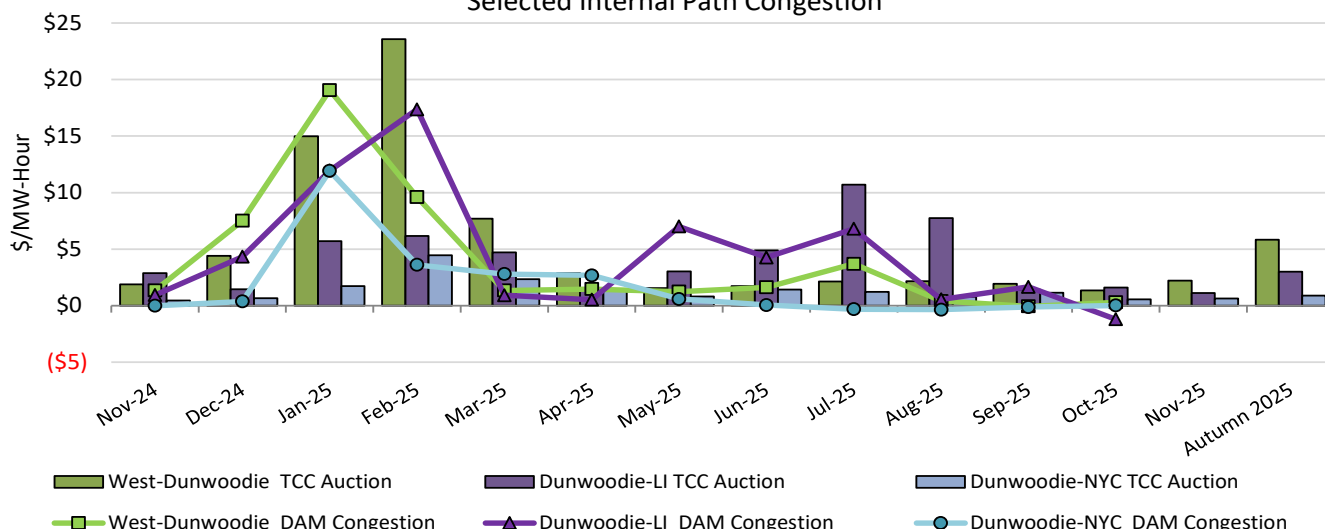


### Local Reliability Commitments October 2025 DARU & SRE Hours

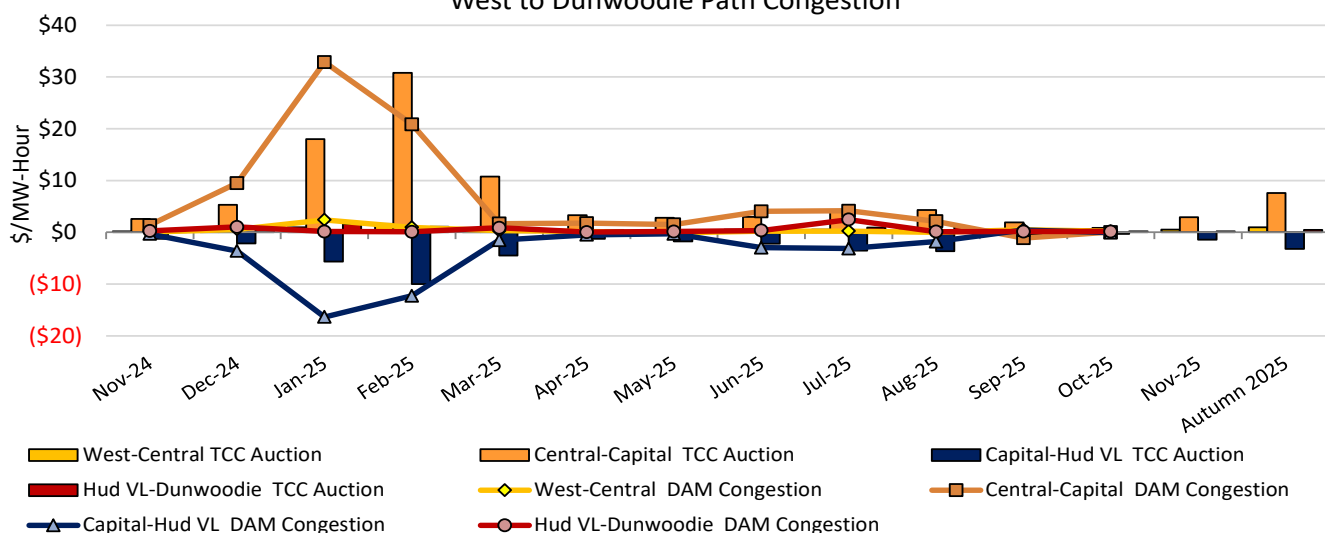


TCC Monthly Reconfiguration Auction vs. Monthly DAM Average  
with Autumn 2025 Centralized TCC Auction Six-Month Average

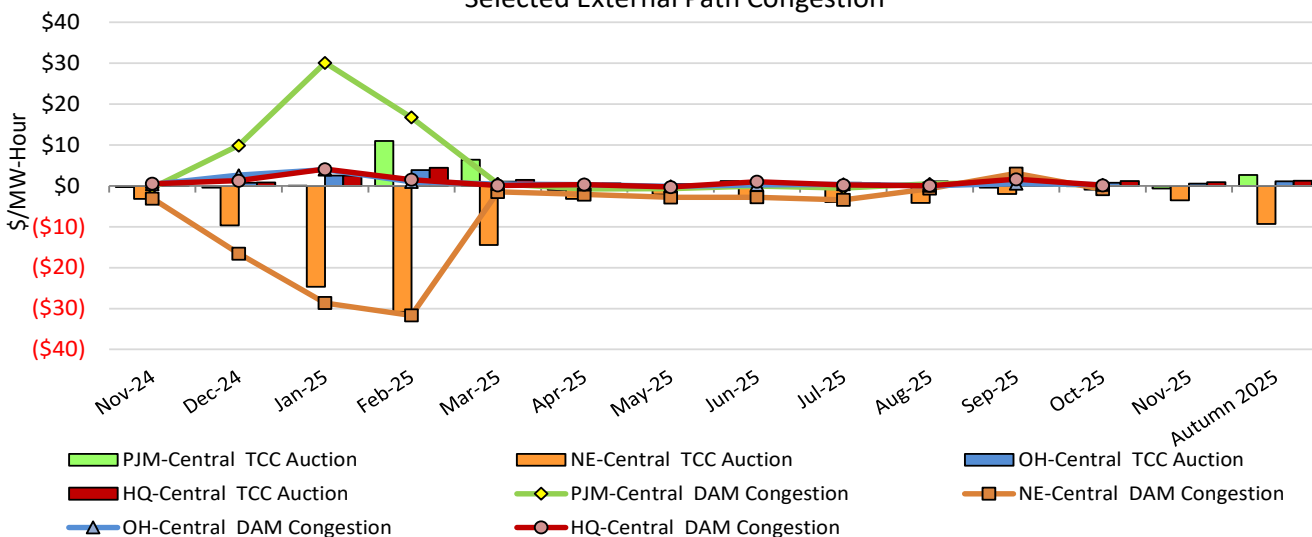
Selected Internal Path Congestion

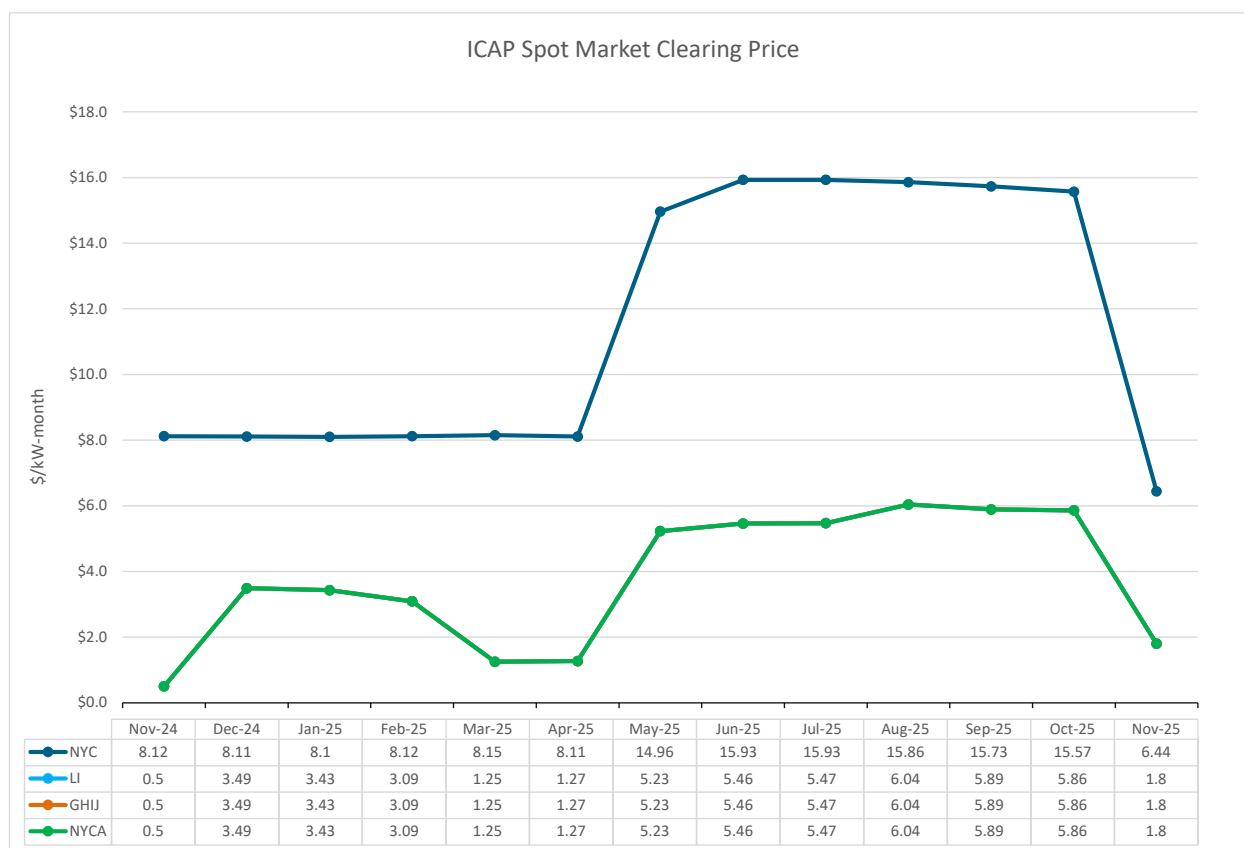


West to Dunwoodie Path Congestion



Selected External Path Congestion





### Price Change Summary:

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

## Appendix A –Metric Definitions

- **Alert State:** The number of Alert State declarations reflect system operating conditions beyond thresholds associated with Normal and Warning States. Declaration of the Alert State allows the NYISO to take corrective actions not available in the Normal and Warning States.
- **Average Hourly Error %:** Average value of the ratio of hourly average error magnitude to hourly average actual load demand.
- **Capacity Factor:** The ratio of actual energy produced to the maximum energy that could have produced if operating at full capacity continuously during the same period.
- **Curtailed Energy:** Difference between real-time wind/FTM solar forecast and economic wind/FTM solar output limit.
- **Curtailed Energy %:** The ratio of curtailed energy to total energy production.
- **Day-Ahead Average Hourly Error %:** Average across all hours of the month of the absolute value of the difference between actual load demand and the Day-Ahead forecast load demand, divided by the actual load demand.
- **Day-Ahead Bias:** Avg (actual generation – Day-Ahead forecast generation) / capacity
- **Day-Ahead MAE Forecast Error:** Avg |actual generation – Day-Ahead forecast generation| / Capacity
- **Day-Ahead Market Capacity Unavailable:** Unavailable capacity is calculated as the difference of Day-Ahead Market capacity including SRE relative to the real-time (RT) capacity during RT peak load hour.
- **Disturbance Control Standard Event Time:** For NYISO initiated NERC Reportable Disturbances, the maximum ACE recovery time is identified. Recovery times less than 15 minutes are considered NERC compliant.
- **Hour-Ahead Bias:** Avg (actual generation – Hour-Ahead forecast generation) / capacity
- **Hour-Ahead MAE Forecast Error:** Avg |actual generation – Hour-Ahead forecast generation| / Capacity
- **Hour-Ahead MAE Persistence Error:** Avg |actual generation – Hour-Ahead actual generation| / Capacity
- **Hourly Error MW:** Value of the difference between the hourly average actual load demand and the average hour ahead forecast load demand.
- **Major Emergency:** The number of Major Emergency State declarations reflect system operating conditions beyond thresholds associated with the Alert State. Declaration of the Major Emergency State allows the NYISO to take additional corrective actions not available in the Alert State.
- **NERC Balancing Authority ACE Limit Standard:** The amount of time the clock-minute average ACE exceeds the clock-minute Balancing Authority ACE Limit (BAAL) is an indicator of the NYISO Area resource and demand balancing. The maximum BAAL exceedance time is identified. BAAL exceedances of less than 30 consecutive clock-minutes are NERC compliant.
- **NERC Control Performance Standard:** The value of NERC Control Performance Standard 1 (CPS-1) is an indicator of the NYISO Area resource and demand balancing. CPS-1 values greater than 100% are considered NERC compliant.
- **NERC IROL Time Over Limit:** For IROL exceedances leading to Major Emergency State declarations, the maximum IROL exceedance time is identified. IROL exceedances of less than thirty minutes are considered NERC compliant.
- **NERC Transmission Loading Relief (TLR):** Value represents the number of hours in which the NYISO requested TLR level 3 curtailments to provide transmission constraint relief.
- **Net Load:** Defined as Gross load less wind and solar generation.
- **Net Load Ramp:** Average value of the difference in load demand between the previous and current hour. Wind and solar ramps are negated to indicate their impact on Net load ramp.
- **Reserve Activation:** NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Simultaneous Activation of Reserves) by activating an immediate resource and demand balancing operation.
- **Thunderstorm Alert (TSA):** TSA is declared by NYISO when severe operating conditions are detected. A predetermined set of pre-and post-contingency constraints are passed to the RTC and RTD programs while TSA is in effect. Value represents number of hours TSA was active.
- **13 Month Trailing Avg Carbon Emissions Free %:** Sum of internal NYCA generation from Nuclear, Hydro, Wind, Solar resources divided by Gross Load. Gross load is defined as metered load plus BTM solar estimated actuals.
- **13 Month Trailing Avg Renewables %:** Sum of internal NYCA generation from Hydro, Wind, Solar resources divided by Gross Load. Gross load is defined as metered load plus BTM solar estimated actuals.

## Appendix B –NYISO Information Resources

- [Annual Renewable Energy Performance Metrics](#)
- [Demand Response - NYISO](#)
- [Energy Market & Operational Data](#)
- [FERC Order 844 Zonal and Resource Specific Uplift Reports](#)
- [Installed Capacity Market Data](#)
- [Load & Capacity Data Report \(Gold Book\)](#)
- [Operating Committee - NYISO](#)
- [Systems Operations Advisory Subcommittee Report](#)
- [Transmission Congestion Contracts Market Data](#)