



Operations Performance Metrics Monthly Report

A Report by the
New York Independent System Operator

July 2026

*Prepared by NYISO Operations Analysis and Services, based on settlements
initial invoice data collected on or before August 10, 2026.*

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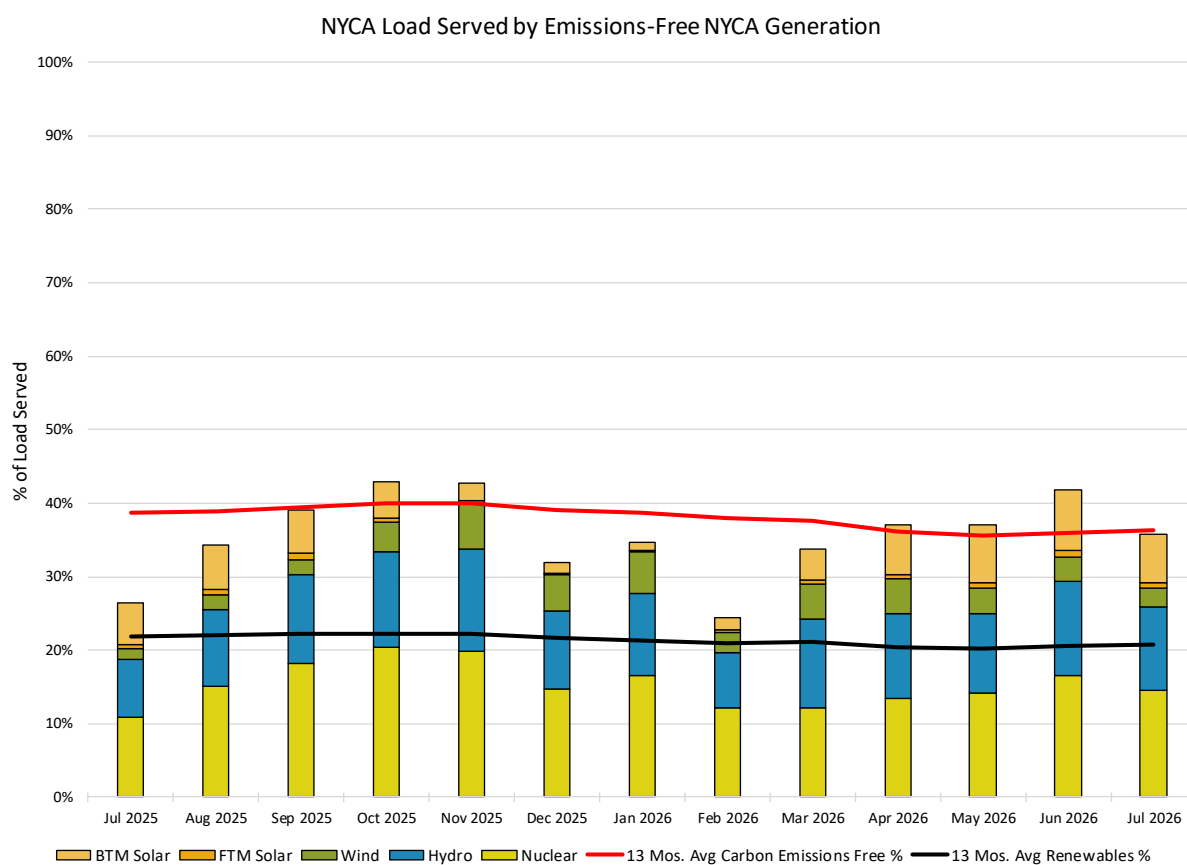
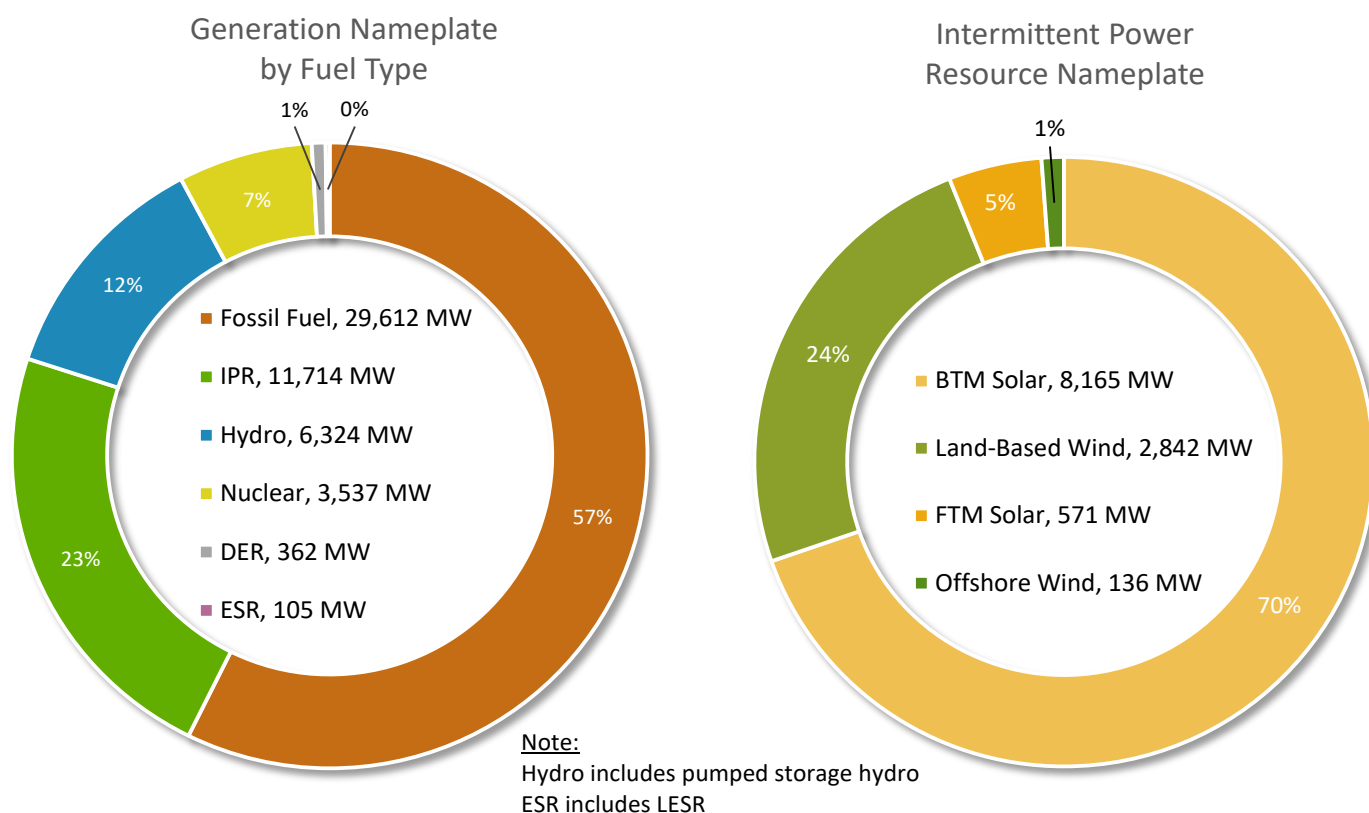
July 2026 Highlights

			
Monthly Metered Load		Historical Metered Load Peaks	
Peak Load	Minimum Load	Summer 2026 Peak Load	All-Time Summer Peak Load
31,097 MW 07/02/2026 HB 18	14,426 MW 07/26/2026 HB 06	31,097 MW 07/02/2026 HB 18	33,956 MW 07/19/2013 HB 16
Monthly Intermittent Resource Peaks		Historical Intermittent Resource Peaks	
			
Peak Wind	Peak Solar (FTM+BTM)	All-Time Peak Wind	All-Time Peak Solar (FTM+BTM)
1,938 MW 07/14/2026 HB 13	5,654 MW 07/20/2026 HB 13	2,389 MW 10/31/2025 HB 14	5,661 MW 06/03/2026 HB 12

Notable NYCA System Events

- Resource and transmission unavailability was a challenging component of system operation during the heatwave that occurred from 7/1 through 7/4. NYISO utilized all available non-emergency actions to maintain reliability, as well as purchased emergency energy on 7/2 and 7/3. Real-time prices during the heat wave reflected reserve and transmission shortages and scarcity conditions.
- NYISO called External ICAP Suppliers on 7/1 - 7/4 and 7/14 - 7/16 due to forecasted loads over 30,000MW and tight capacity conditions.
- EDRP/SCR resources were activated throughout July 2026. See Historic EDRP/SCR Activation [web-posting](#).
- Gowanus-Greenwood 138kV (#42G13), Gowanus 138kV PAR (#R10), and Gowanus 345/138kV (#BK T10) transmission facilities were placed in service on 7/8 and 7/15 respectively.
- Improved the Day-Ahead Market Capacity Unavailable in Real Time methodology to exclude capacity unavailable due to NYISO or Transmission Owner out of merit actions. The updated methodology was applied to the trailing twelve months of reported data with minimal changes observed. [See Page 11](#)

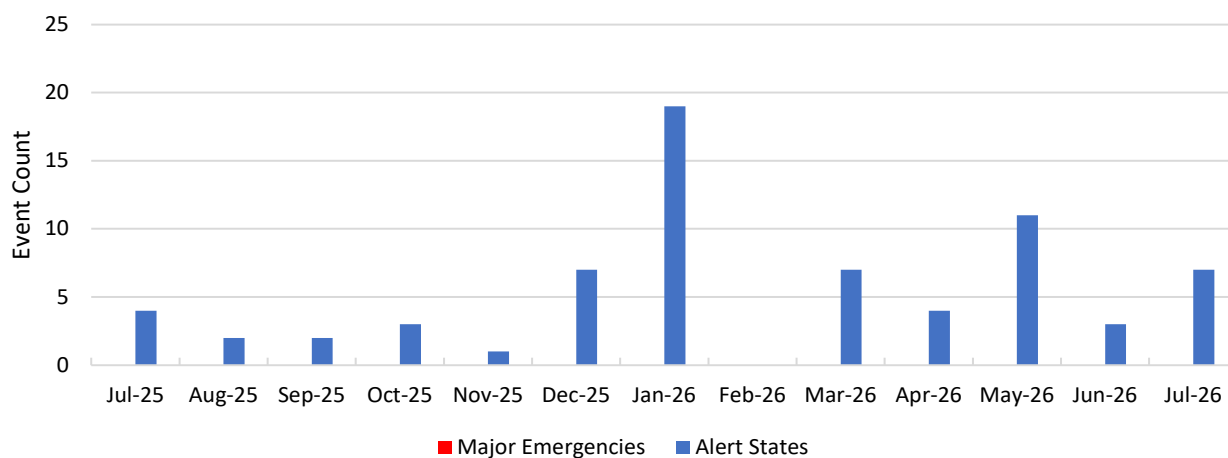
NYCA Generation Mix



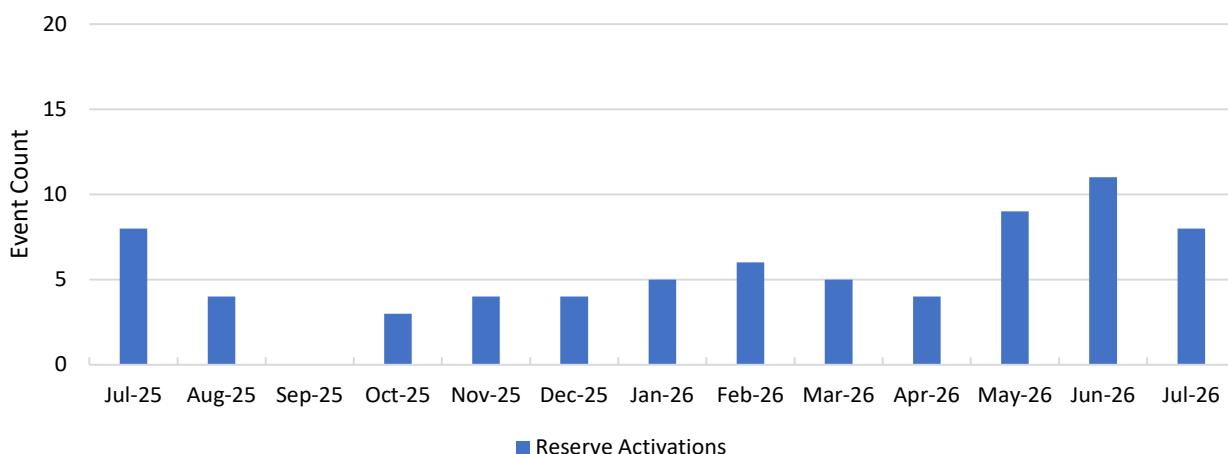
Reliability Performance Metrics

See [Appendix A](#) for metric definitions

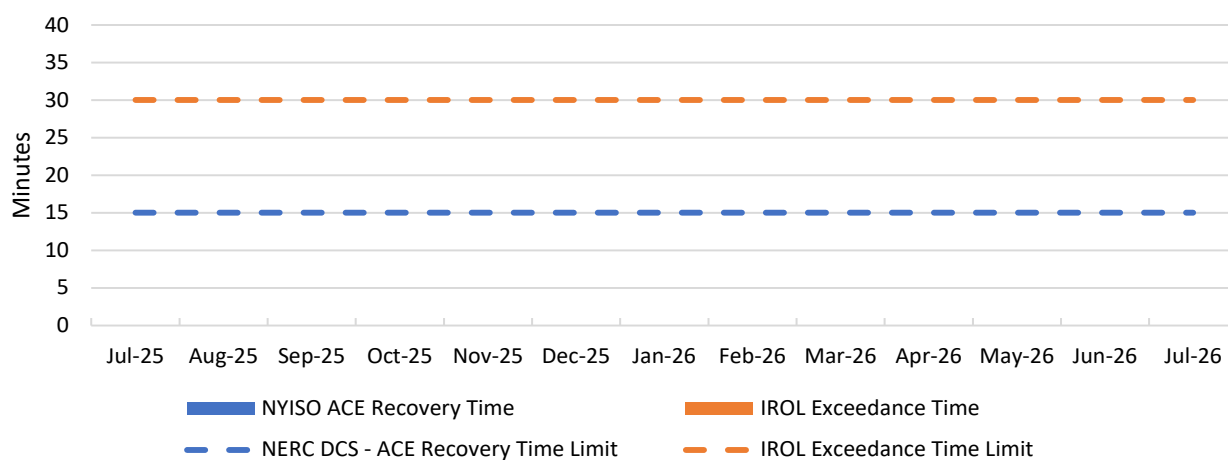
Major Emergency State & Alert State Declarations



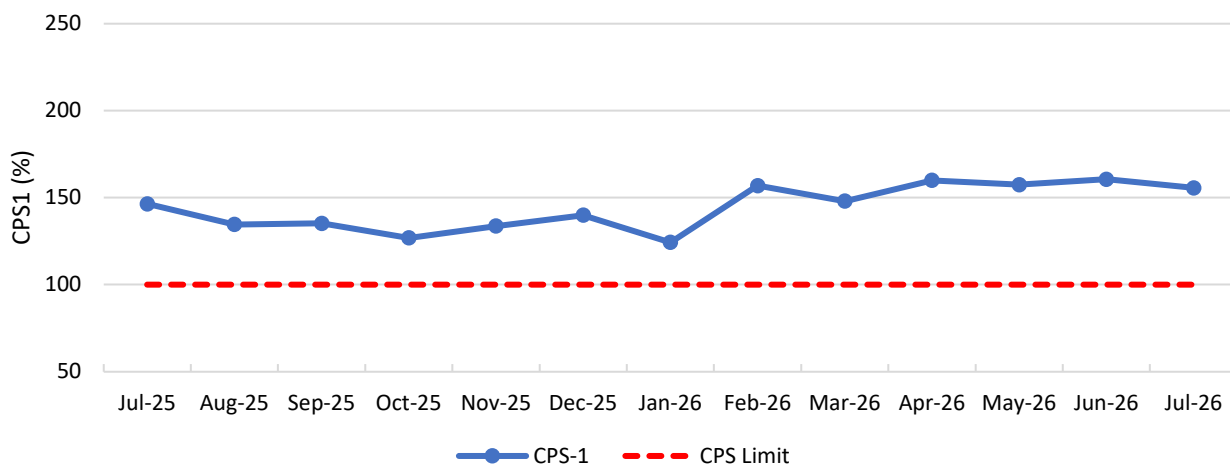
Reserve Activations



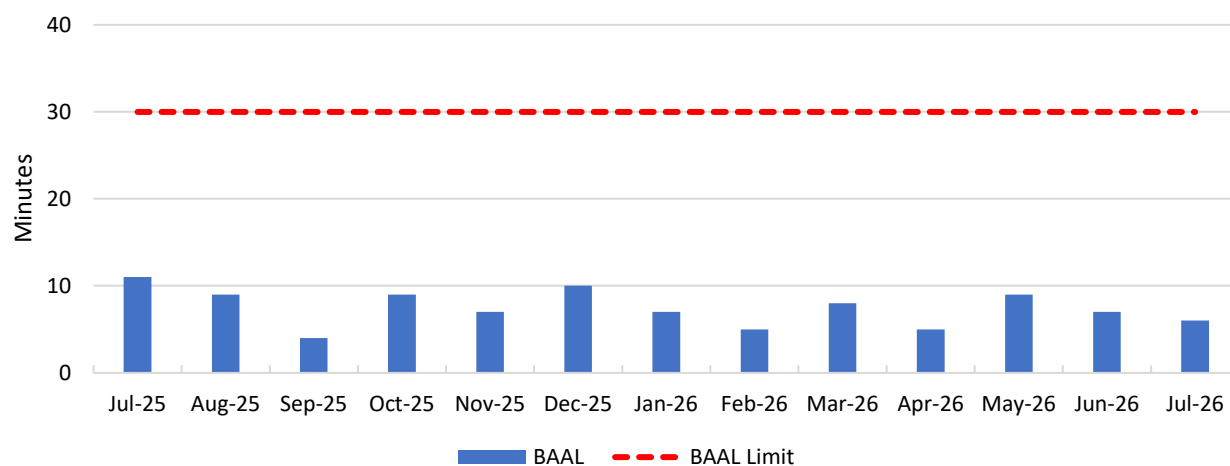
NERC IROL and DCS Reportable Violation Minutes



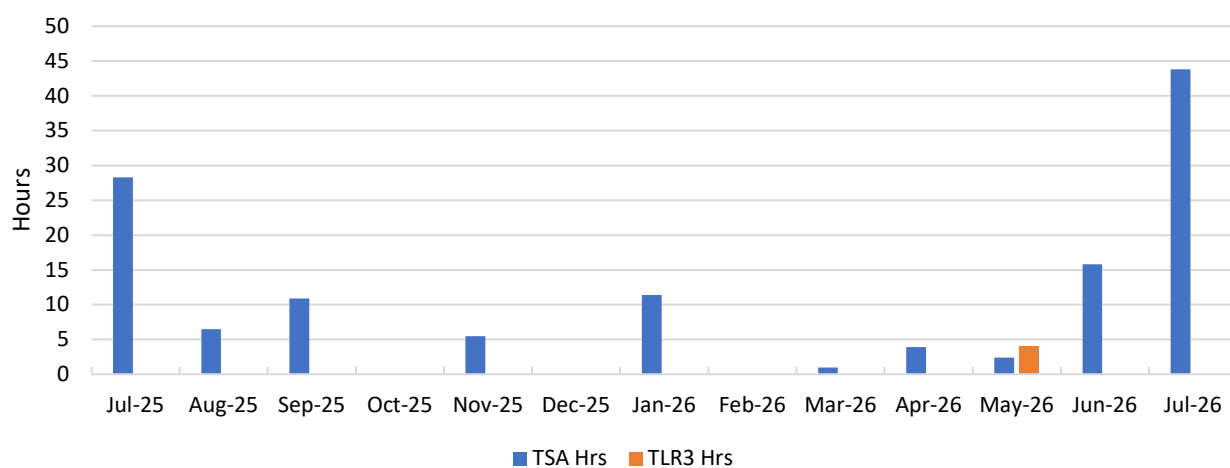
NERC Control Performance Standard



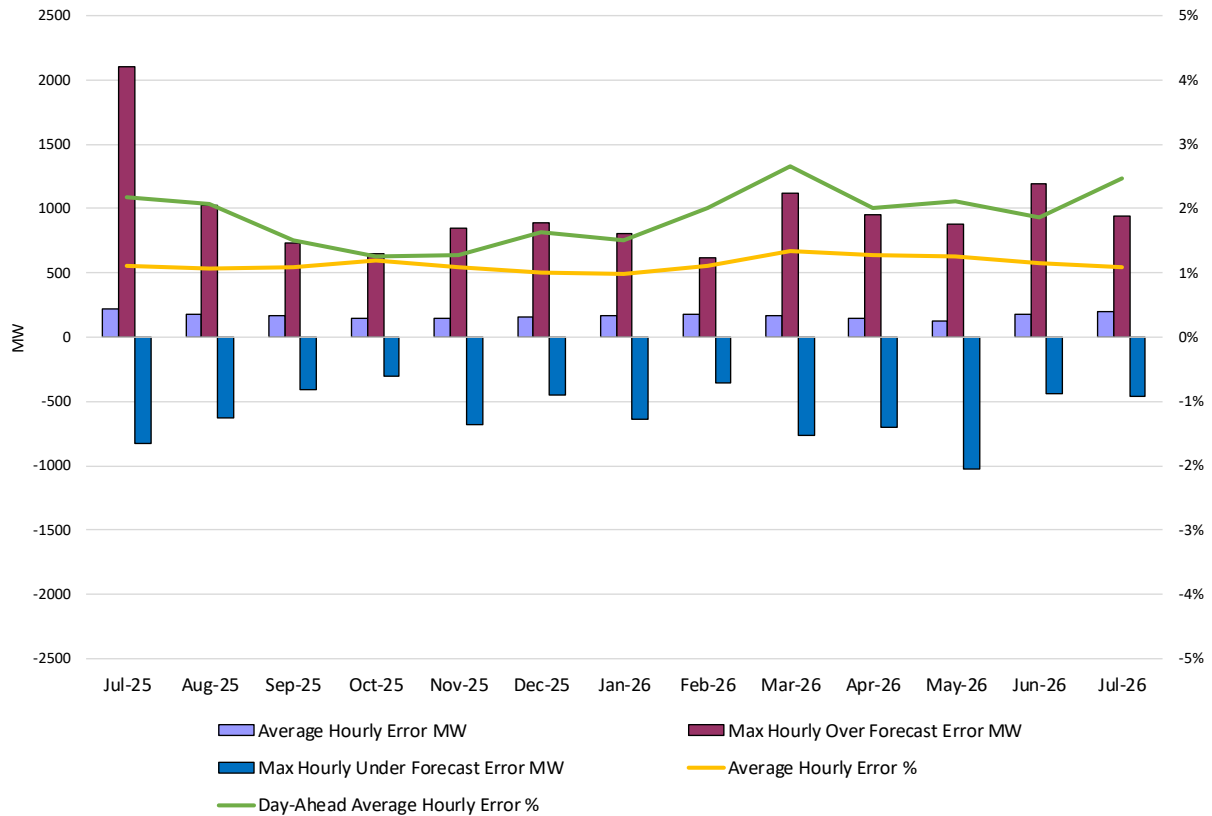
NERC Balancing Authority ACE Limit Standard



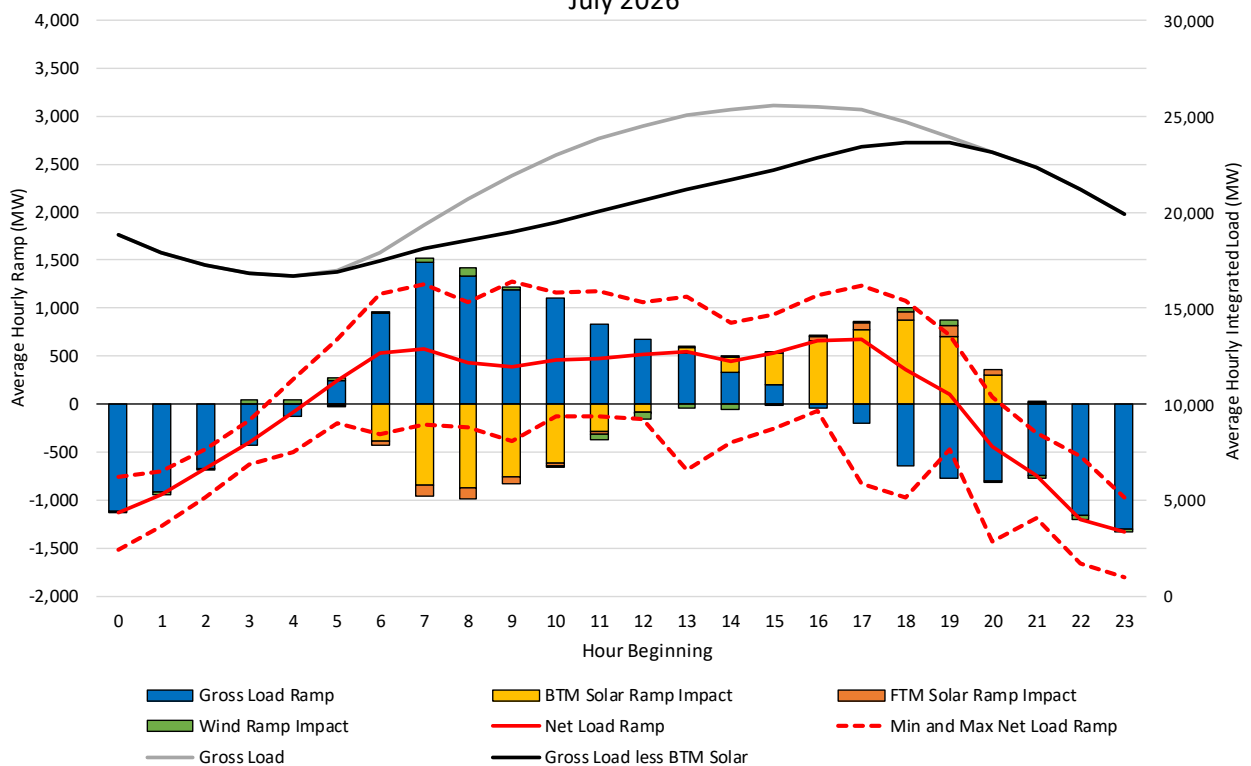
Thunderstorm Alert Hours and NERC TLR-3 Hours

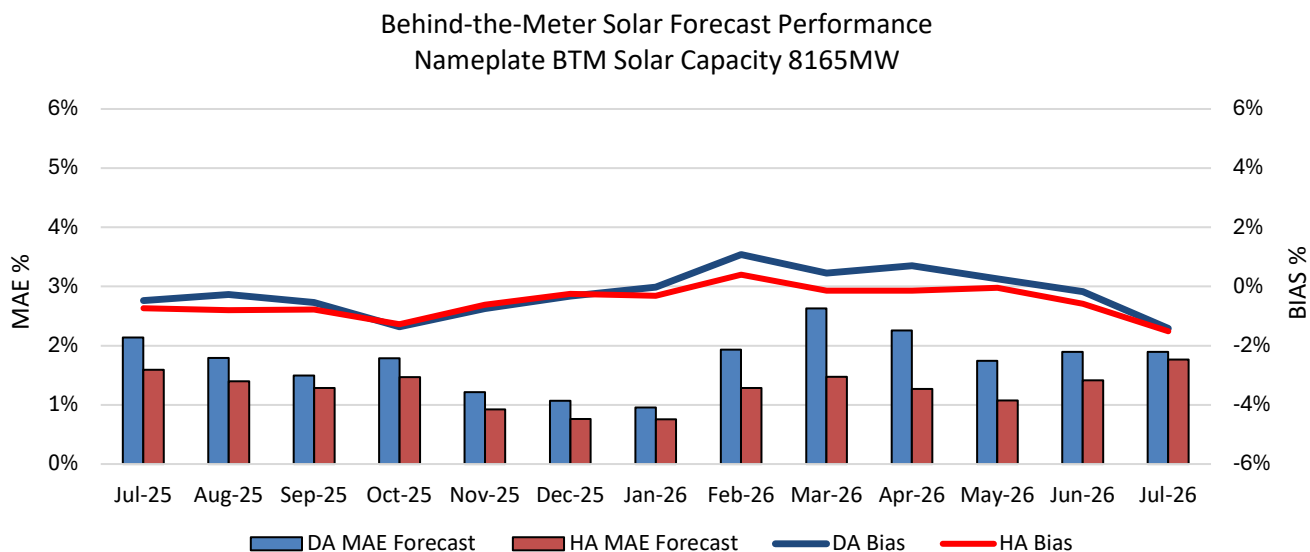
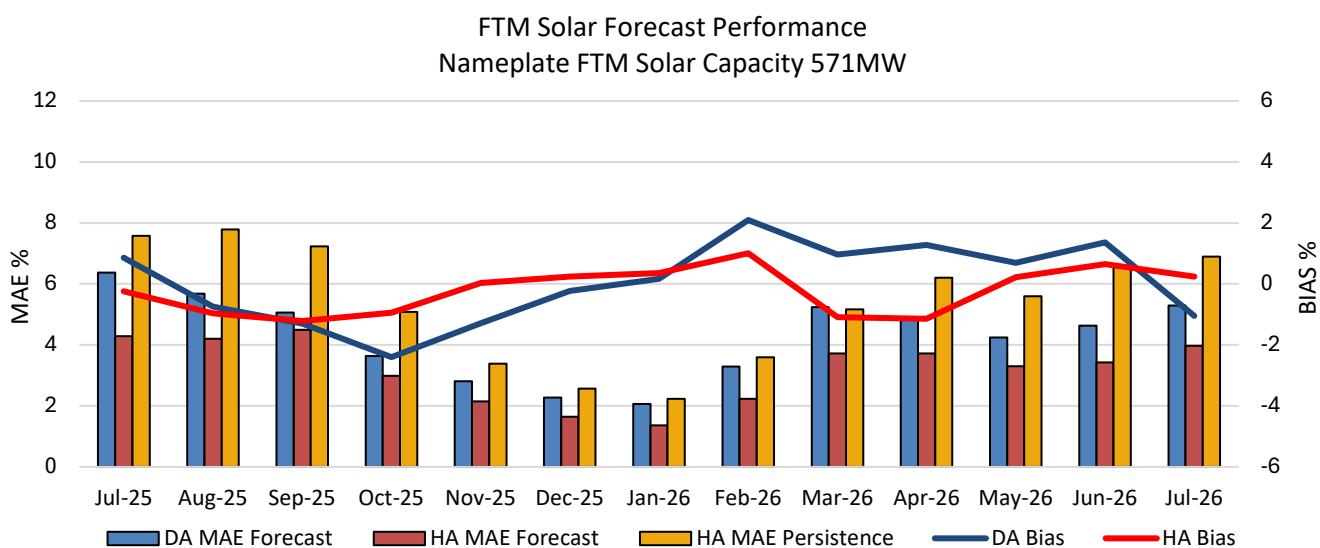
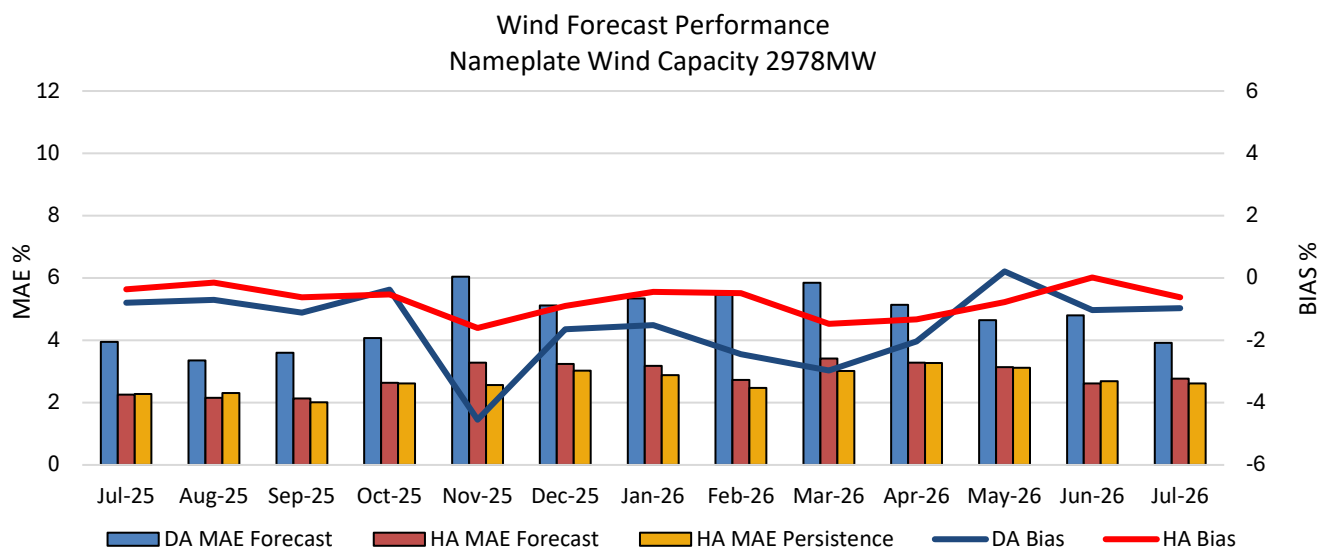


Load Forecast Performance

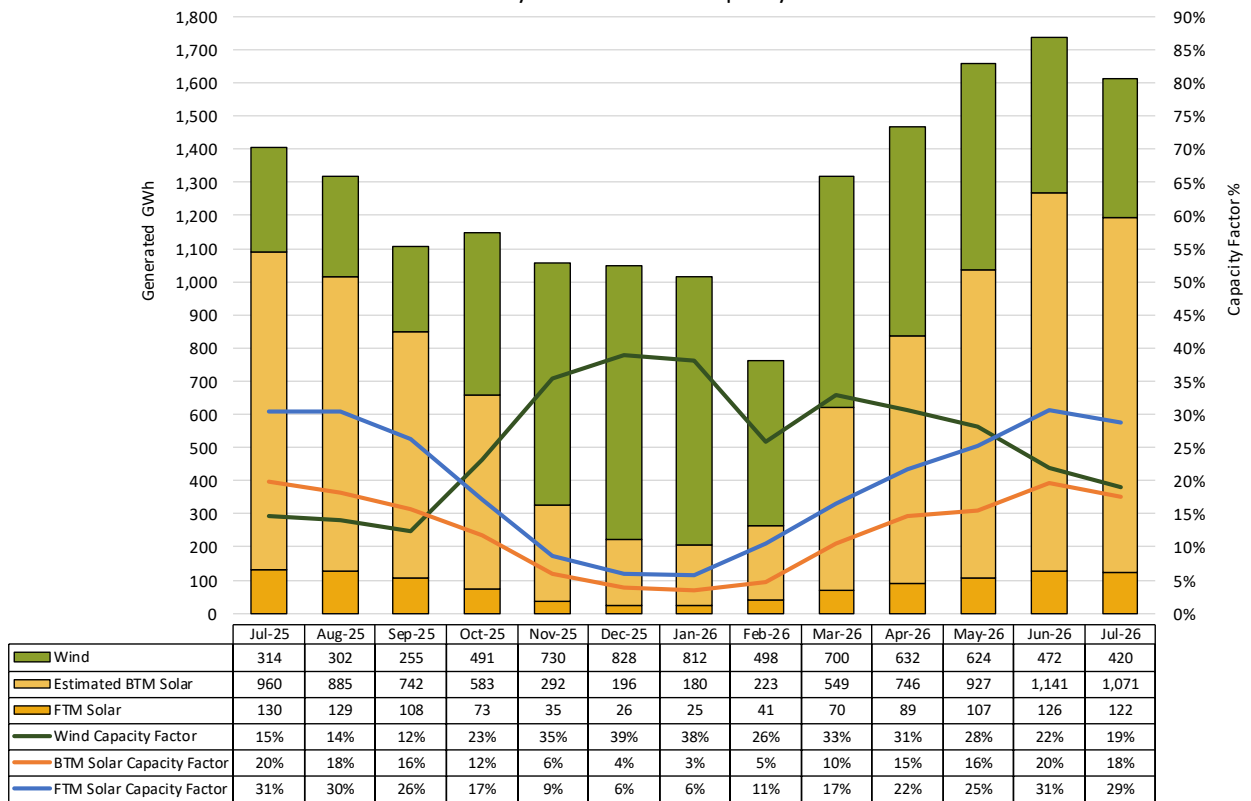


Average Hourly Net Load Ramps July 2026

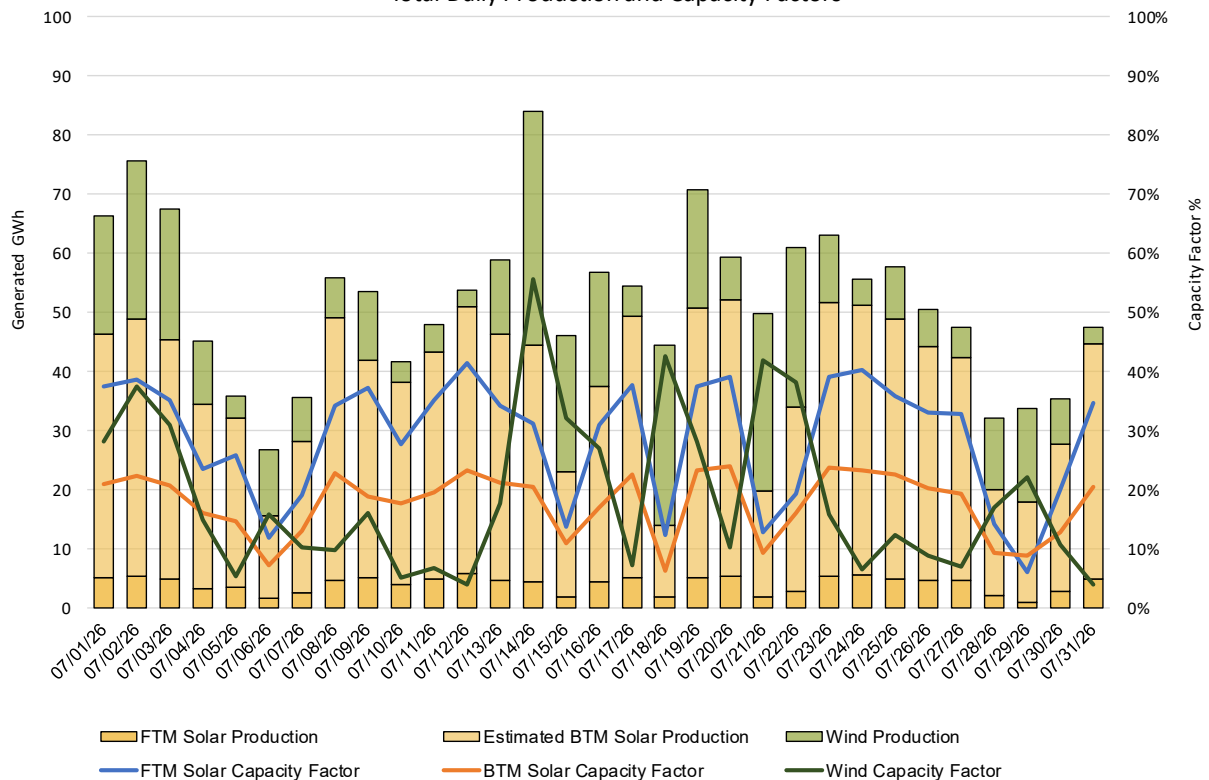




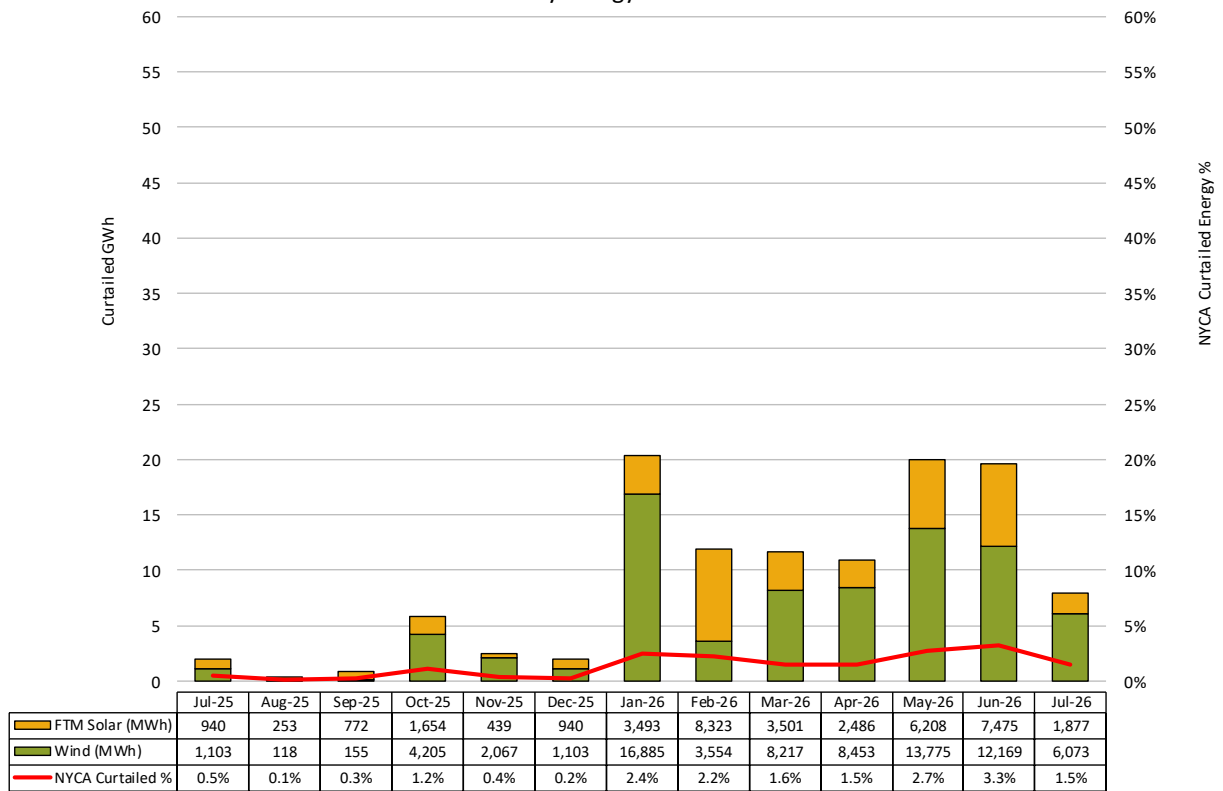
Net Wind and Solar Performance Total Monthly Production and Capacity Factors



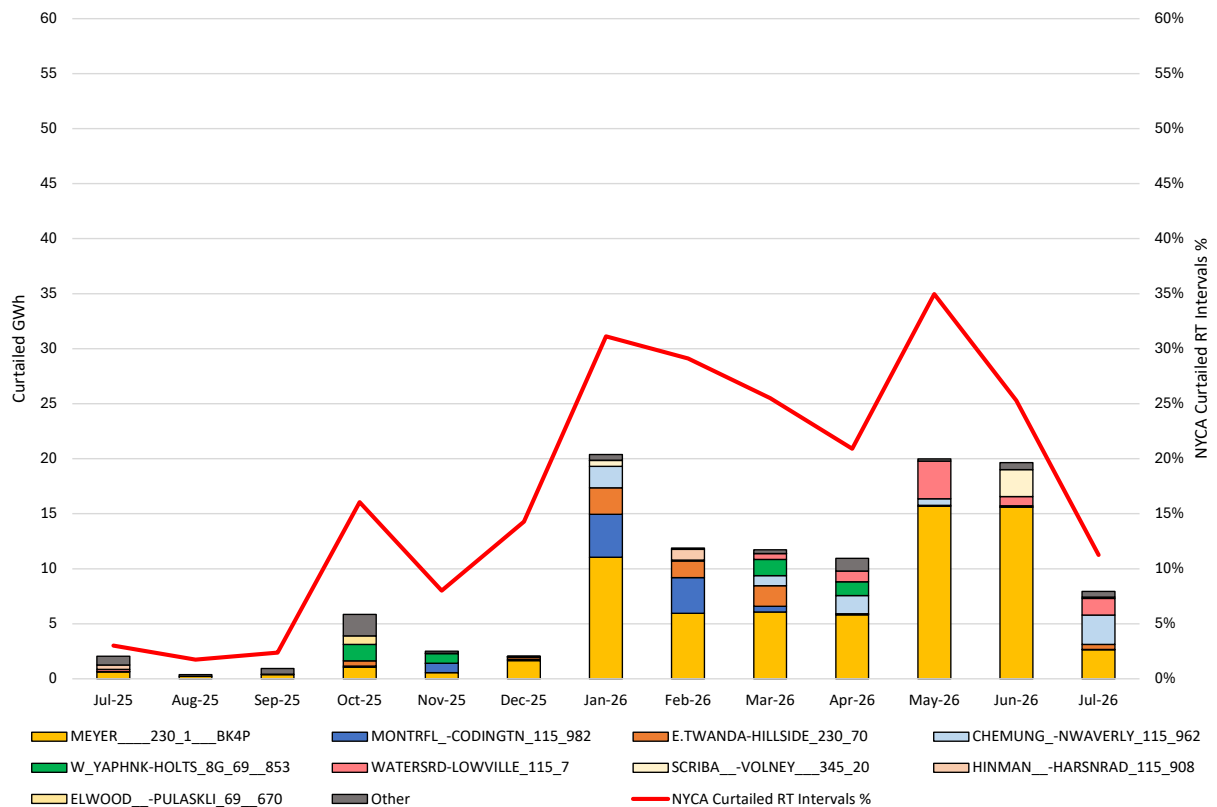
Net Wind and Solar Performance Total Daily Production and Capacity Factors



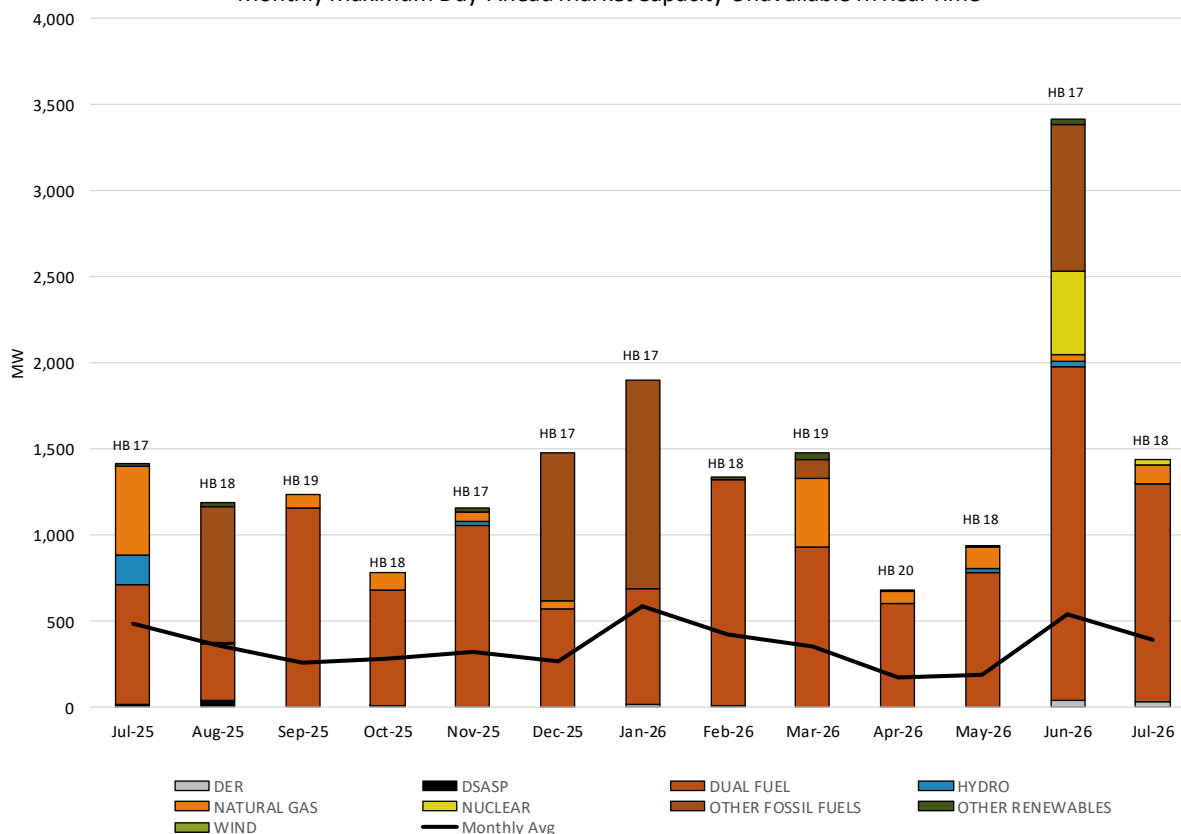
Net Wind and FTM Solar Performance Monthly Energy Curtailment



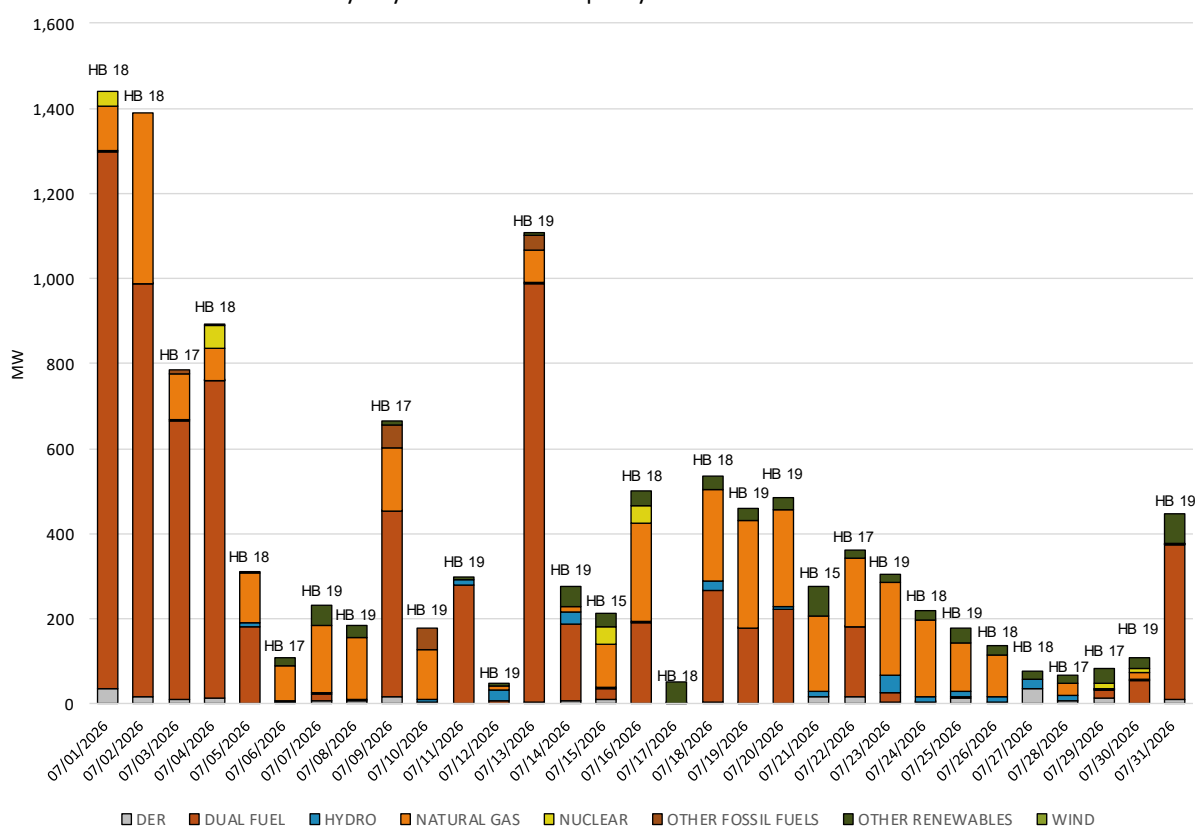
Net Wind and FTM Solar Performance Monthly Energy Curtailment by Limiting Constraint



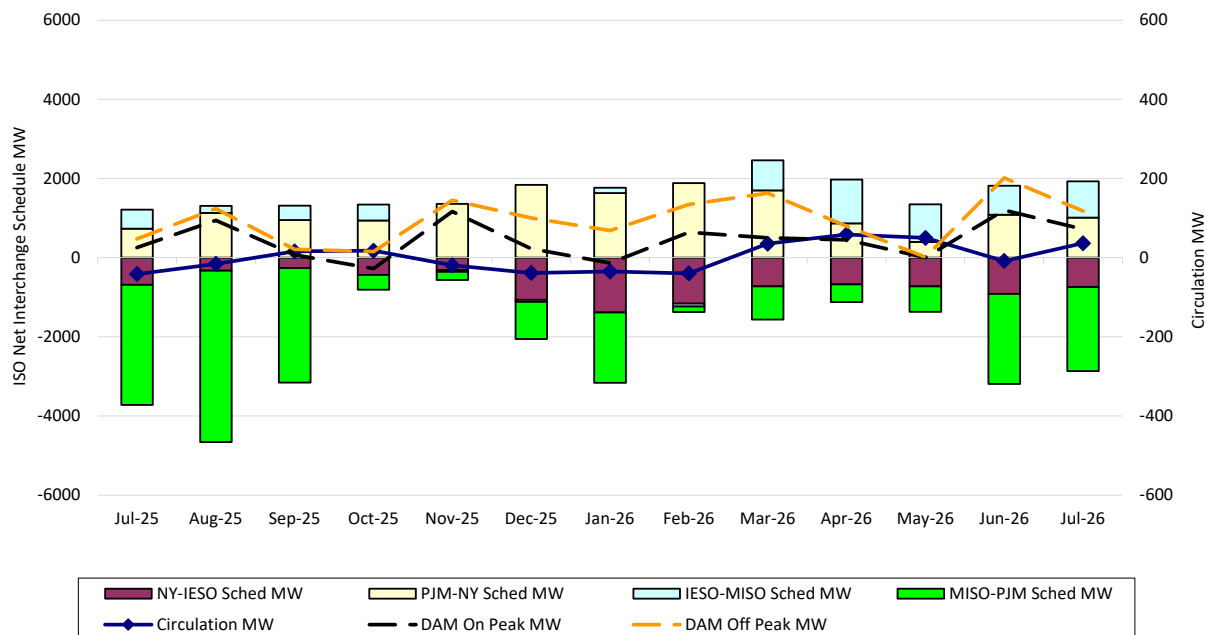
Monthly Maximum Day-Ahead Market Capacity Unavailable In Real Time



Daily Day-Ahead Market Capacity Unavailable In Real Time

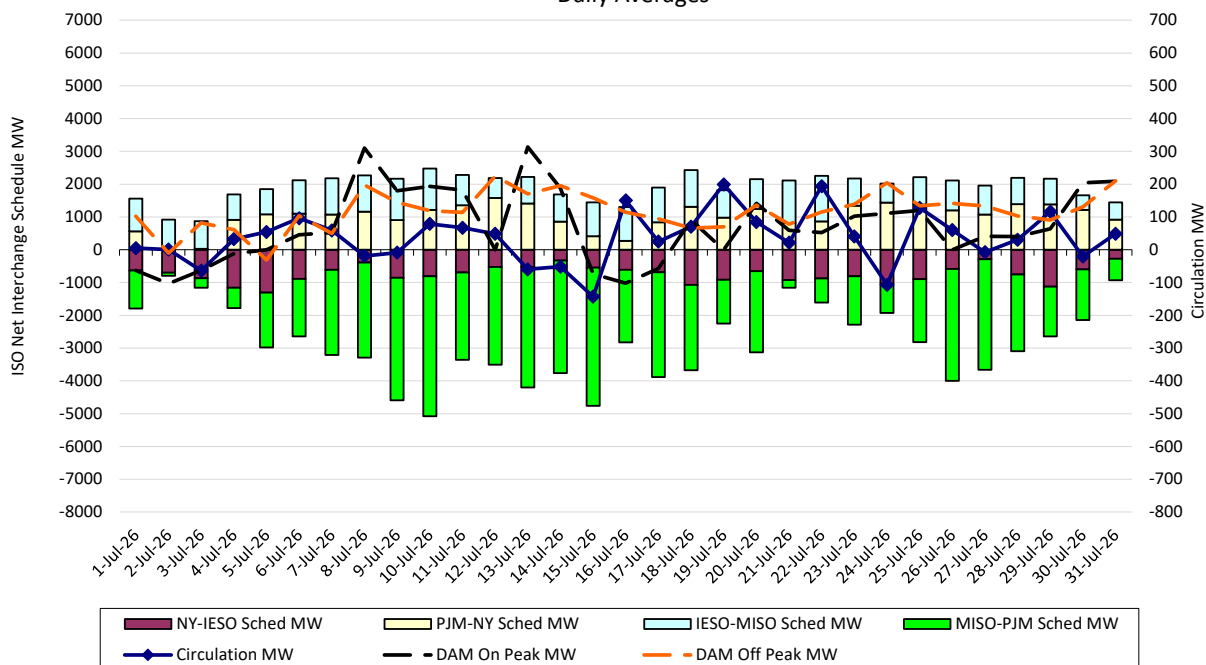


Lake Erie Circulation and ISO Net Interchange Schedules
Monthly Averages



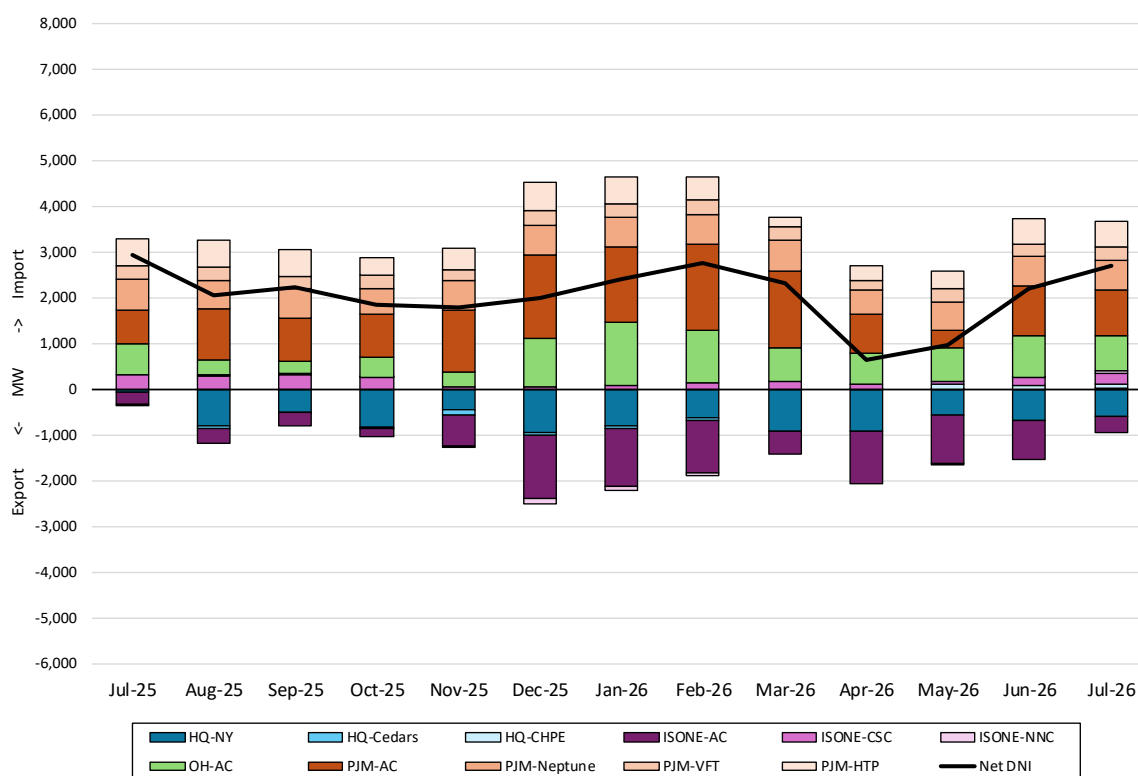
Interchange schedules with positive values aggravate clockwise Lake Erie Circulation.

Lake Erie Circulation and ISO Net Interchange Schedules
Daily Averages

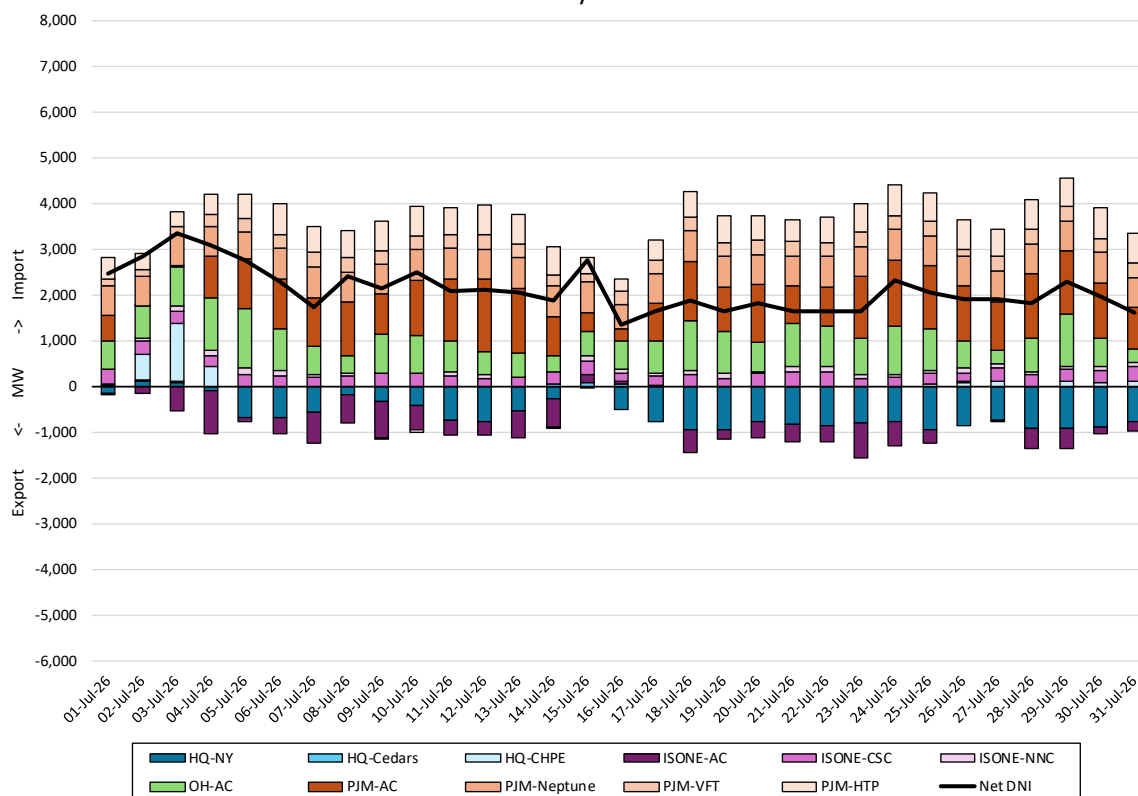


Interchange schedules with positive values aggravate clockwise Lake Erie Circulation.

Monthly Average Interchange by Proxy

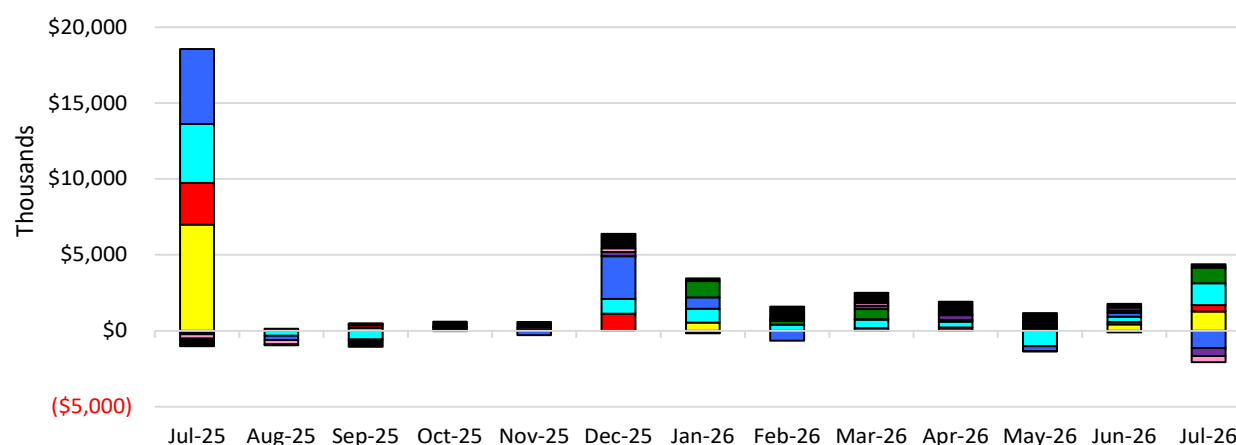


Daily Average Interchange by Proxy July 2026

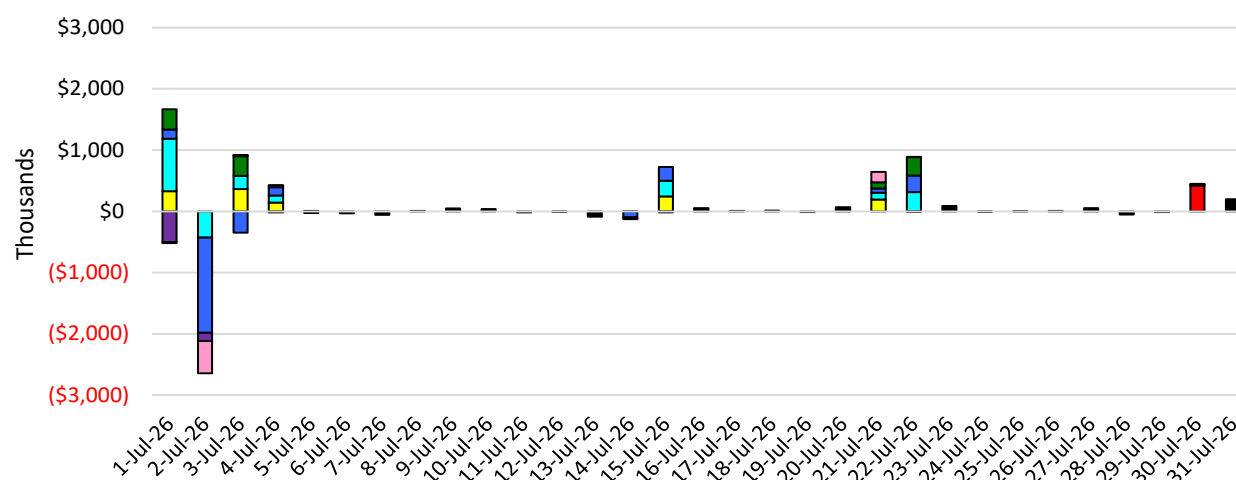


Market Performance Metrics

Balancing Market Congestion Residual Monthly Uplift Cost Categories



Daily Uplift Cost Categories



Real-Time Balancing Market Congestion Residual Categories

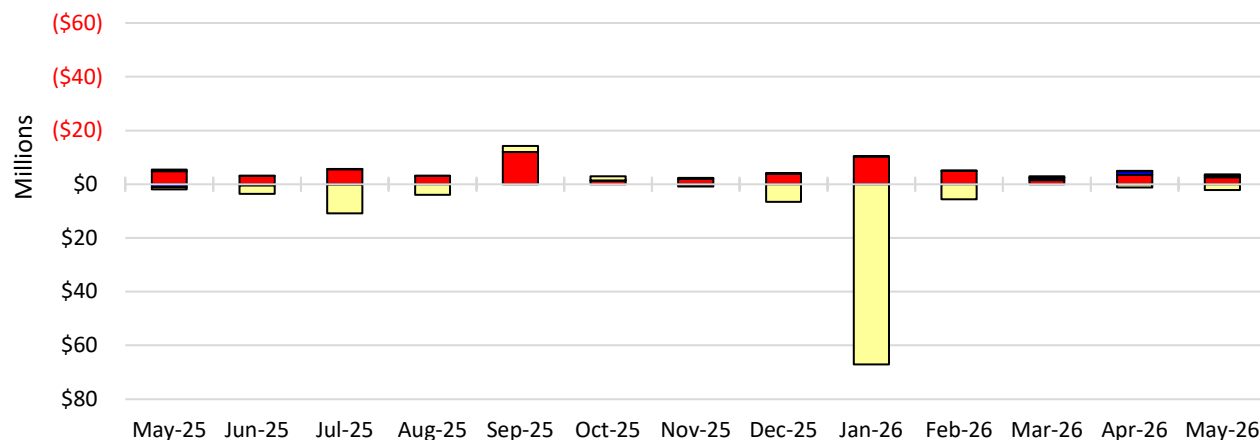
Category	Cost Assignment	Events Types	Event Examples
Storm Watch	Zone J	Thunderstorm Alert (TSA)	TSA Activations
Transmission Outage Mismatch	Market-wide	Changes in DAM to RTM transfers related to transmission outage mismatch	Forced Line Outages, Unit AVR Outages, Early Line Return from Outage
Interface/Facility 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

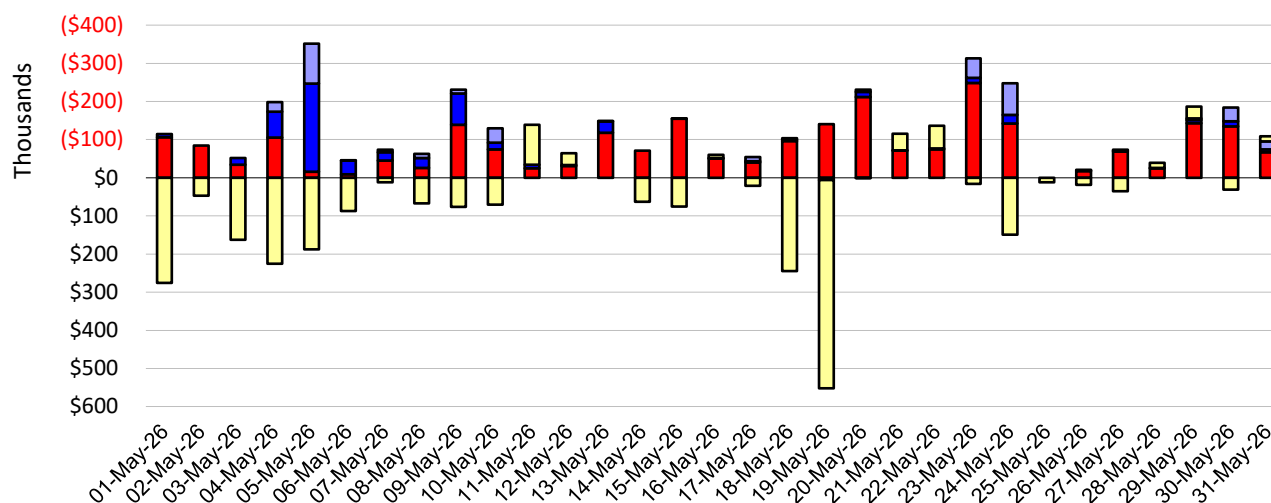
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

Day's investigated in July: 1,2,3,4, 14, 15,21,22,30		
Event	Description	July Dates
Yellow	Thunder Storm Alert, Carl Place-Stewart Ave 138kV (#361)	1
	Thunder Storm Alert, Chester-Shoemaker 138kV (#27)	1,3,4,15,21
	Thunder Storm Alert, Goethals-Linden 230kV (#A2253)	21
	Thunder Storm Alert, VanWagner-Leeds 345kV (#91)	3
	Thunder Storm Alert, VanWagner-Leeds 345kV (#92)	1,3,4
	Thunder Storm Alert, Wood St-Pleasant Valley 345kV (#F30)	1
Red	Forced Outage of the Watercure-Mainesburg 345kV (#30)	30
Cyan	NYCA Active DNI Ramp Limit	1,2,3,14,15,21,22,30
	Derate Alcoa-Alcoa PA 115kV (#R8105)	15
	Derate Chemung-North Waverly 115kV (#962) I/o WATRCURE-OAKDALE 345 31	22
	Derate Chester-Shoemaker 138kV (#27) I/o TWR:RAMAPO 76 & 77 & BK1112	2
	Derate Dunwoodie-Shore Road 345kV (#Y50) I/o SCB:SPBK(RNS2):Y49&M29&Y49_ST	4
	Derate Elwood-Green Lawn 138kV (#673) I/o NRTHPORT-ELWOOD 138 681	1,2
	Derate Farragut-Gowanus 345kV (#42) I/o SCB:GOWANUS(2):41&42231&R4	4,15
	Derate Greenlawn-Syosset 138kV (#676) I/o NRTHPORT-ELWOOD 138 681	1
	Derate Leeds-New Scotland 345kV (#93) I/o BUS:N.SCTLD #99&18&1&94&BK1&C2	2
	Derate Motthaven-Dunwoodie 345kV (#72)	15
	Derate Newbridge-Stewart Ave 138kV (#463)	1,2
	Derate North Troy-Sycaway 115kV (#14-988) I/o BUS:ALPS 1 & 6 & 393	21
	Derate Sprainbrook/Dunwoodie South	1
	Derate VanWagner-Athens 345kV (#91) I/o LEEDS -VNWAGNER 345 92	1
	Derate VanWagner-Leeds 345kV (#92) I/o ATHENS -VNWAGNER 345 91	1,2
	Uprate Astoria West-Hellgate 138kV (#24051) I/o SIN:HELLG-ASTOR 24052&15055M&B	1,3
	Uprate Chester-Shoemaker 138kV (#27) I/o TWR:RAMAPO 76 & 77 & BK1112	15
	Uprate Foxhills-Greenwood 138kV (#29231) I/o GREENWD -FOXHILLS 138 29232	4
	Uprate Goethals-Gowanus 345kV (#25)	15
	Uprate Goethals-Gowanus 345kV (#26)	1
	Uprate Scriba-Volney 345kV (#20) I/o SCB:SCRIBA(R935):21&FS-10	4
	Uprate Scriba-Volney 345kV (#20) I/o SCRIBA -VOLNEY 345 21	1,4
Blue	HQ CHAT - NY Scheduling Limit	1,2,3,4,21,30
	HQ CHAT Active DNI Ramp Limit	1,15,21
	IESO AC Active DNI Ramp Limit	2,3,14,15,22
	NE AC - NY Scheduling Limit	2,3,4,15
	NE AC Active DNI Ramp Limit	1,2,3,4,15,21,22,30
	NE NNC1385 - NY Scheduling Limit	3,4,15,21
	PJM AC - NY Scheduling Limit	1,2,3,4,14,15
Green	PJM AC Active DNI Ramp Limit	2,3,4,14,15,21,22
	Lake Erie Circulation, DAM-RTM exceeds ±125MW; Central	1,3,4,14,15,21,22
	Lake Erie Circulation, DAM-RTM exceeds ±125MW; West	1,3

DAM Congestion Residual Monthly Cost Categories

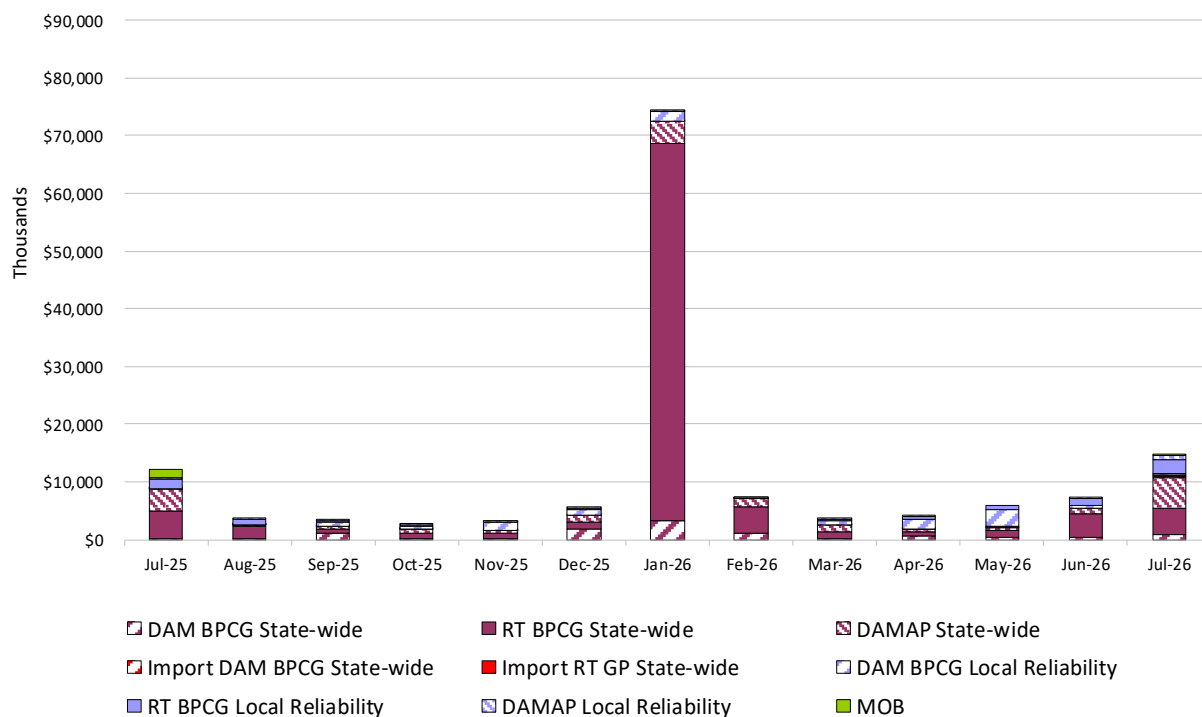


Daily Cost Categories

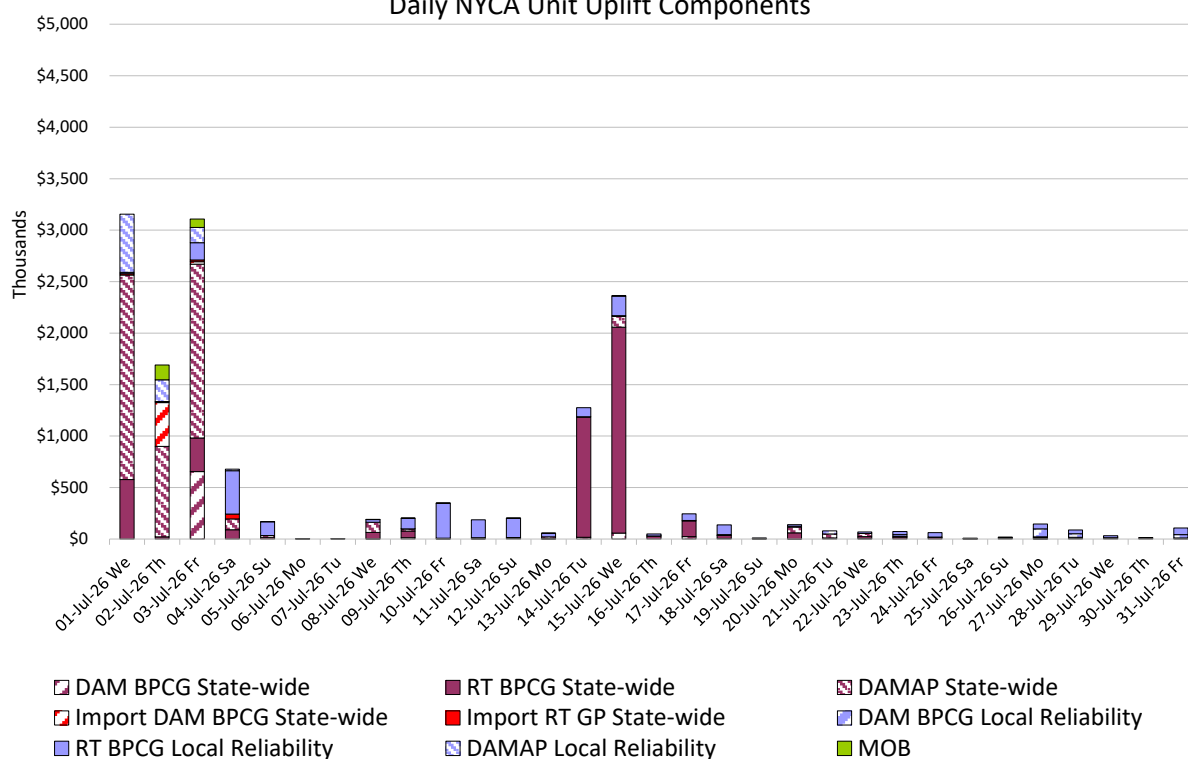


DAM Congestion Residual Categories			
Category	Cost Assignment	Events Types	Event Examples
NYTO Outage Allocation	Responsible TO	Direct allocation to NYTO's responsible for transmission equipment status change.	DAM scheduled outage for equipment modeled in-service for the TCC Auction.
Incremental TCC/External 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		

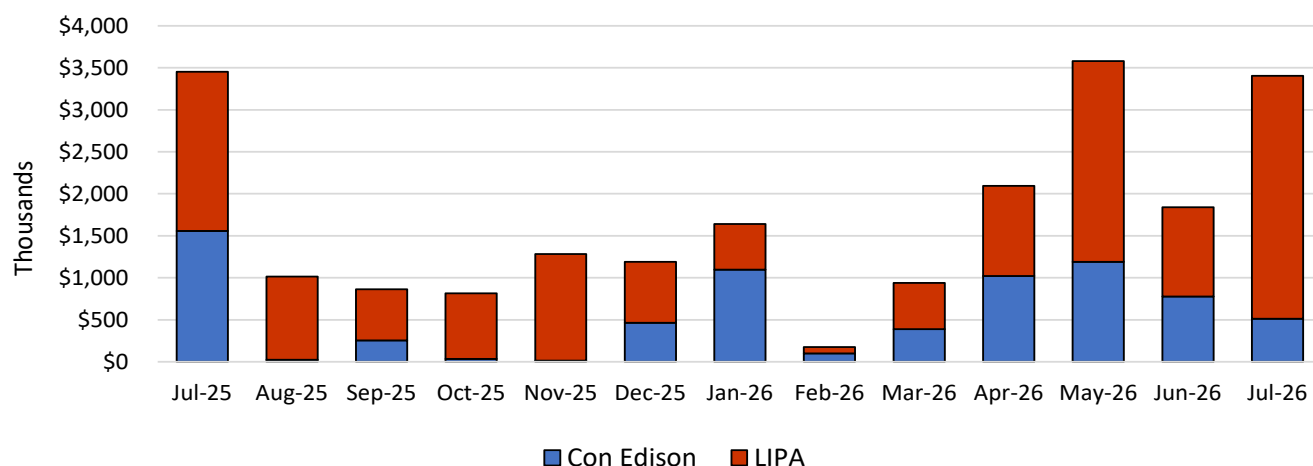
Monthly Power Supplier Uplift Components



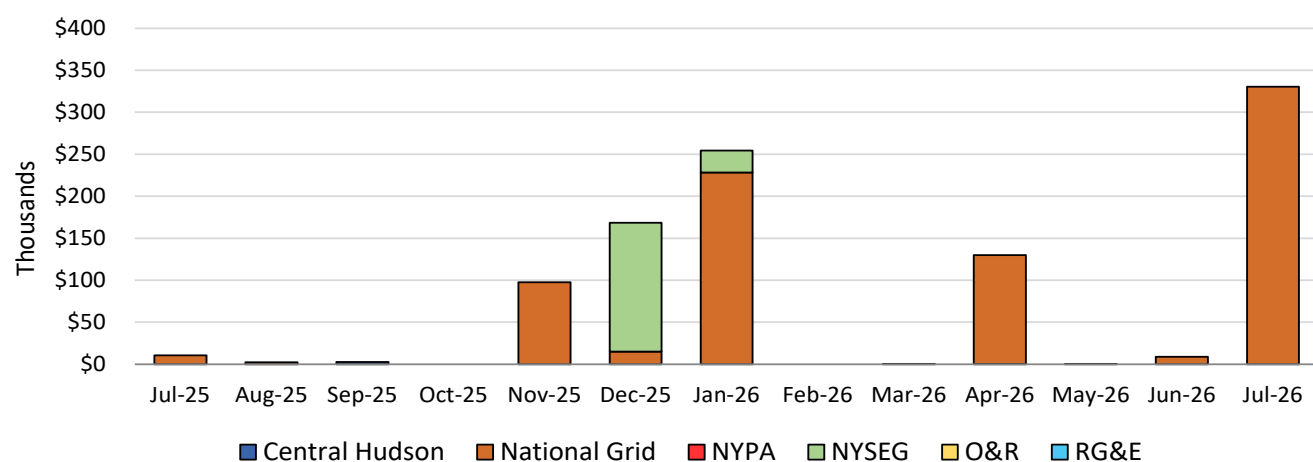
July 2026 Daily NYCA Unit Uplift Components



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



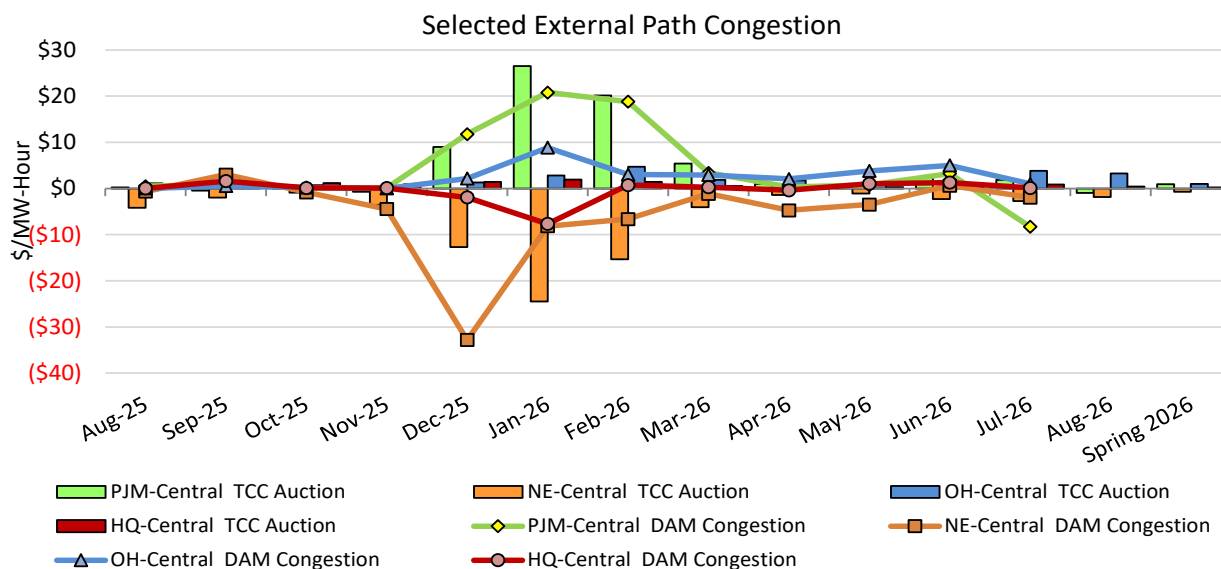
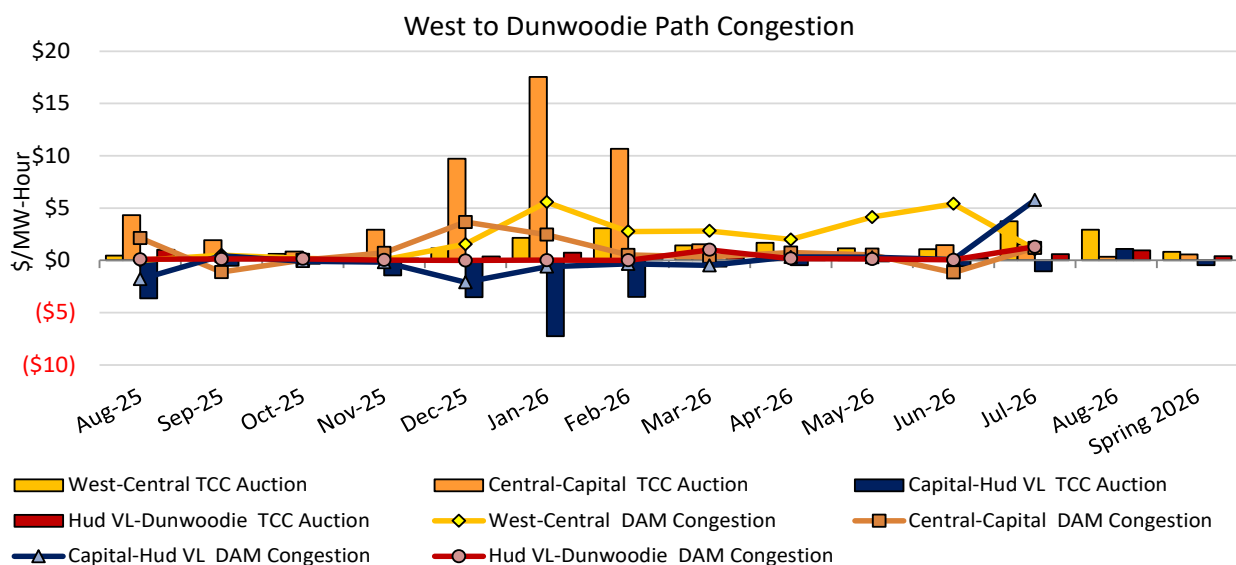
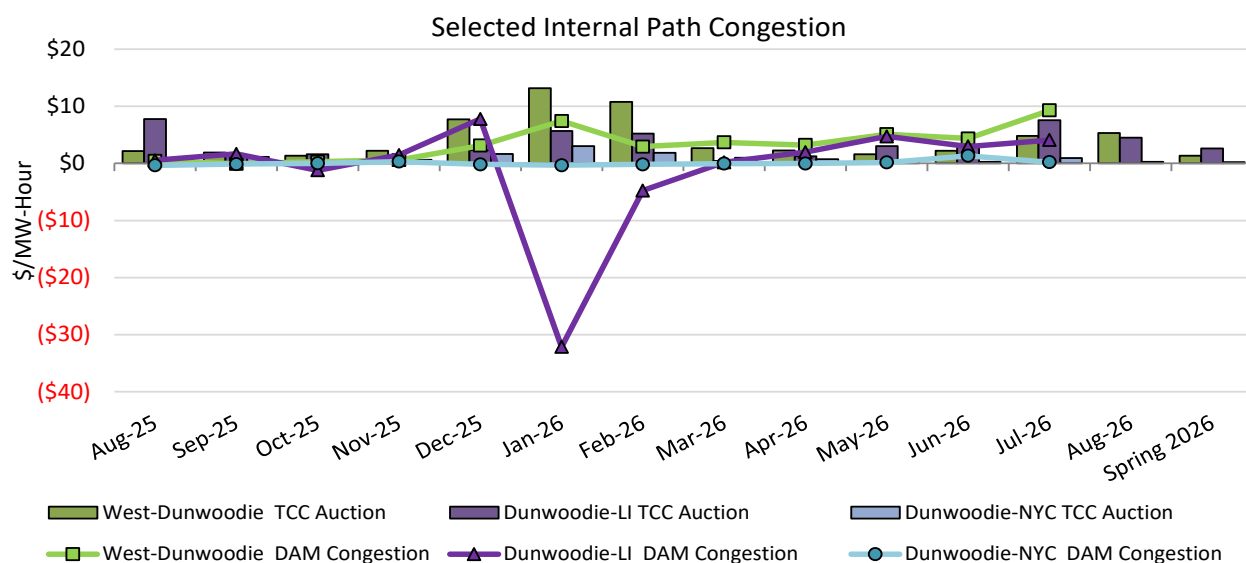
Local Reliability Cost - Rest of State Monthly RT BPCG, DAM BPCG & DAMAP Costs

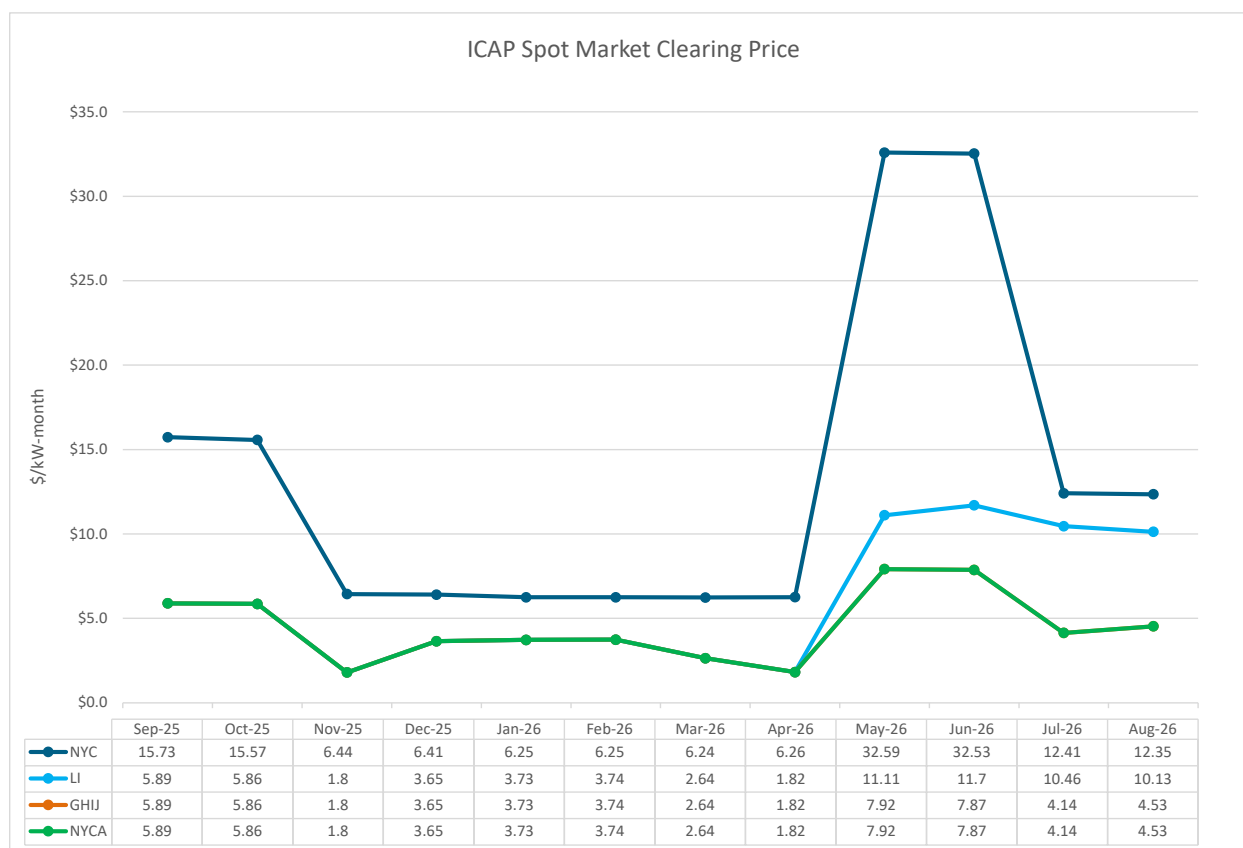


Local Reliability Commitments July 2026 DARU & SRE Hours



TCC Monthly Reconfiguration Auction vs. Monthly DAM Average
with Spring 2026 Centralized TCC Auction Six-Month Average





Price Change Summary:

The price change in Long Island was driven by an increase in available generation UCAP. NYCA's price change was driven by an increase in Exports.

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.
- **Desired Net Interchange (DNI):** A mechanism used to set and maintain the desired Energy interchange (or transfer) between two Control Areas; it is scheduled ahead of time and can be changed manually in real-time.
- **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](#)