Operations Performance Metrics Monthly Report



February 2024 Report

Operations & Reliability Department New York Independent System Operator



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February 2024 Operations Performance Highlights

Monthly Peak Load	Monthly Minimum Load	Winter 2023-2024 Peak	All-time Winter Peak
02/14/2024 HB 18	02/11/2024 HB 03	01/17/2024 HB 18	01/07/2014 HB 18
20,981 MW	13,352 MW	22,754 MW	25,738 MW

- 4.2 hours of Thunderstorm Alerts were declared
- 0.0 hours of NERC TLR level 3 curtailment

Installed Wind, Solar and Energy Storage Resource Nameplate Values:

Land-Based Wind	Behind-the-Meter	Front-of-the-Meter	Energy Storage
	Solar	Solar	Resource (ESR)
2,736 MW	5,362 MW	194 MW	63 MW

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

	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	(\$0.38)	(\$1.60)
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.05)	(\$0.36)
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.70	\$2.89
Total NY Savings	\$0.27	\$0.94
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.56	\$1.77
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.10	\$0.32
Total Regional Savings	\$0.65	\$2.09

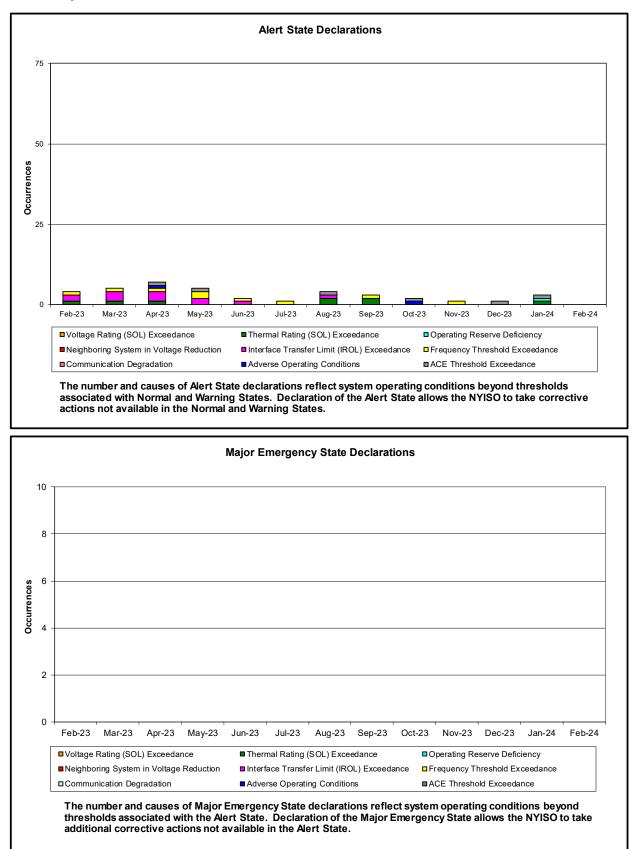
- Statewide uplift cost monthly average was (\$0.35)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
March 2024 Spot Price	\$0.56	\$0.75	\$12.78	\$0.56
February 2024 Spot Price	\$4.56	\$4.56	\$12.80	\$4.56
Delta	(\$4.00)	(\$3.81)	(\$0.02)	(\$4.00)

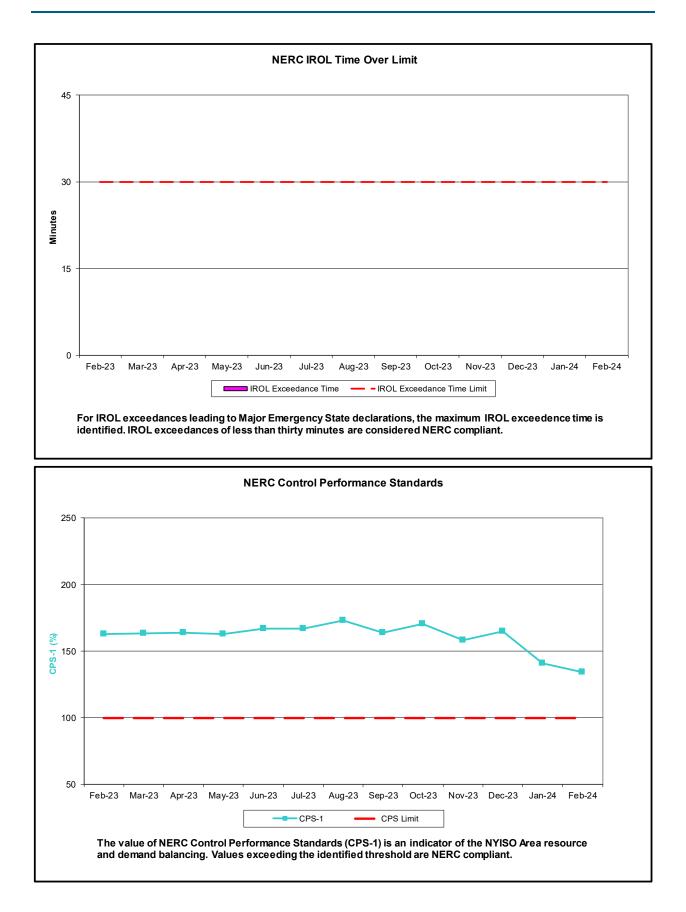
• Price changes in NYCA, Lower Hudson Valley, and Long Island were driven by an increase in imports, along with a decrease in exports.



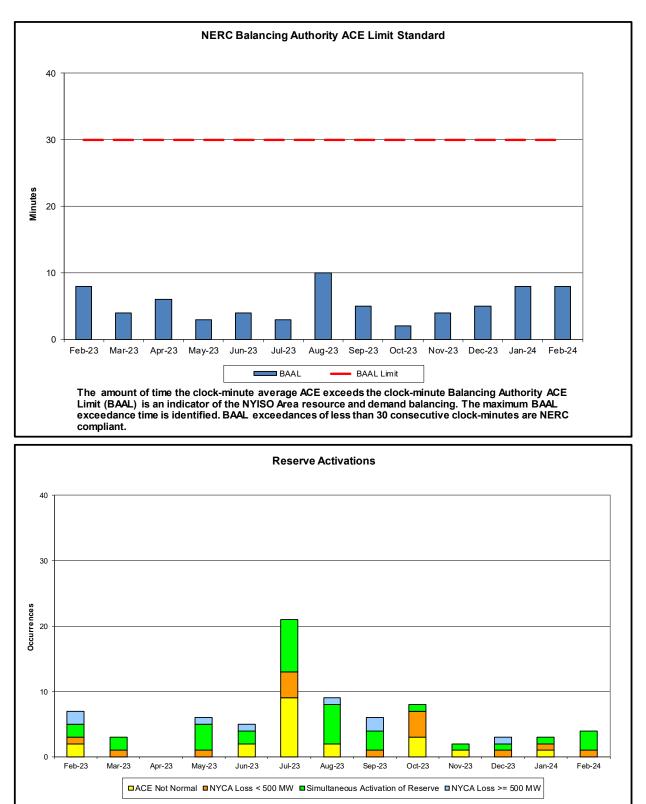
Reliability Performance Metrics





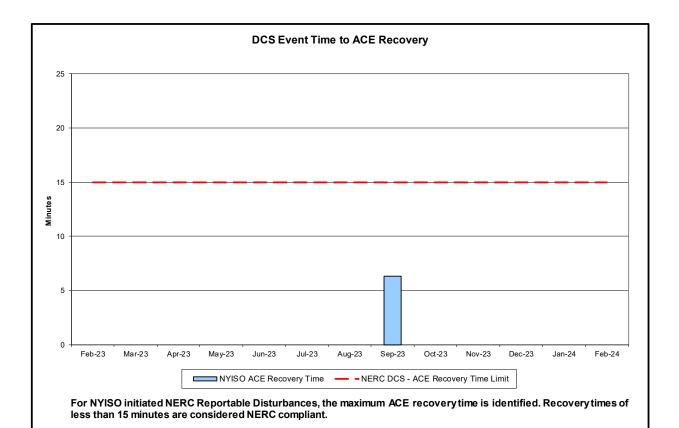


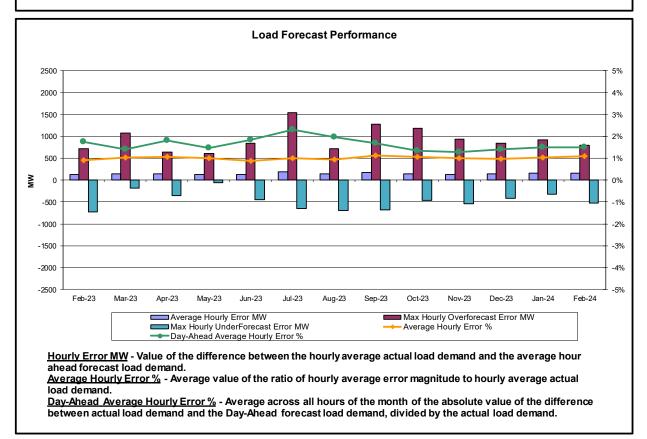




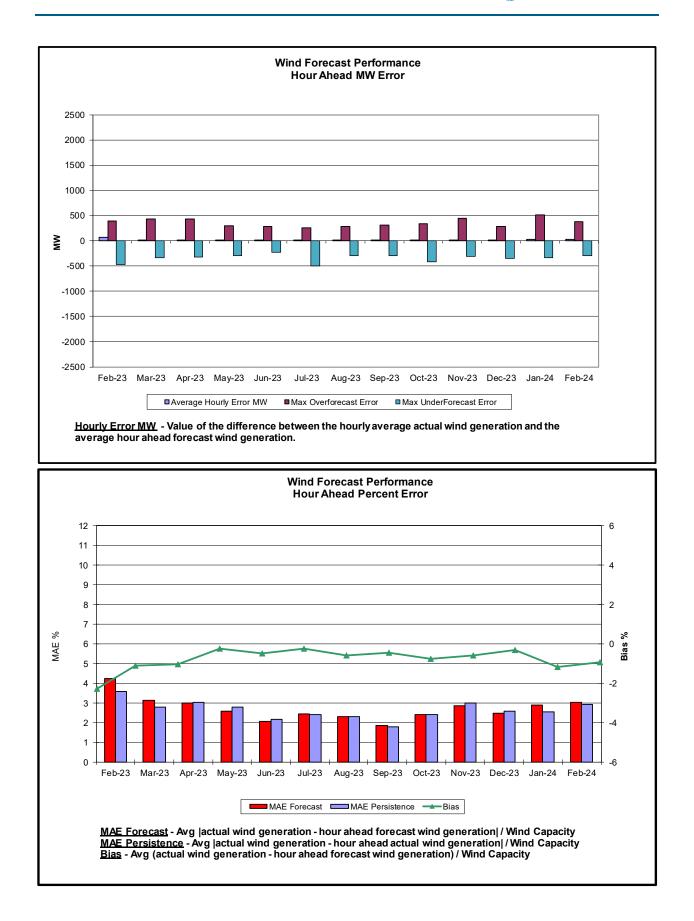
NYISO Reserve Activations are indicators of the need to respond to unexpected operational conditions within the NYISO Area or to assist a neighboring Area (Simultaneous Activation of Reserves) by activating an immediate resource and demand balancing operation.



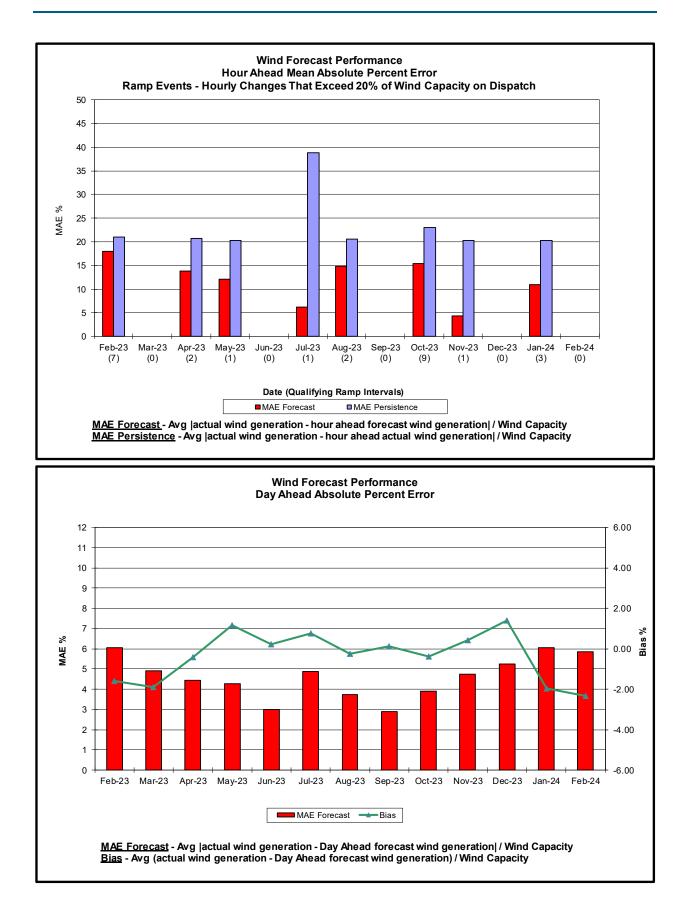




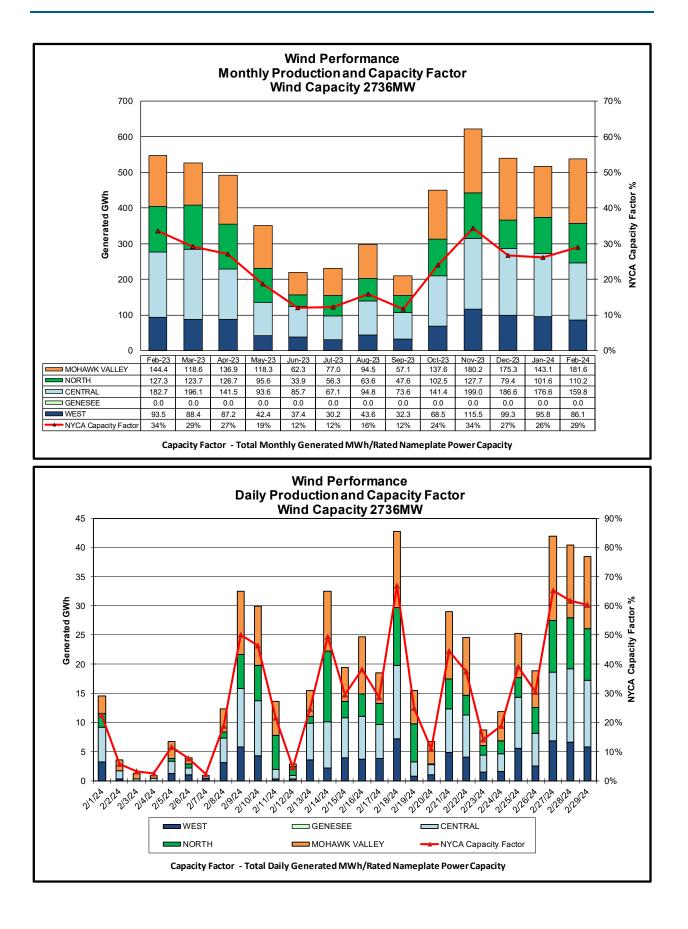
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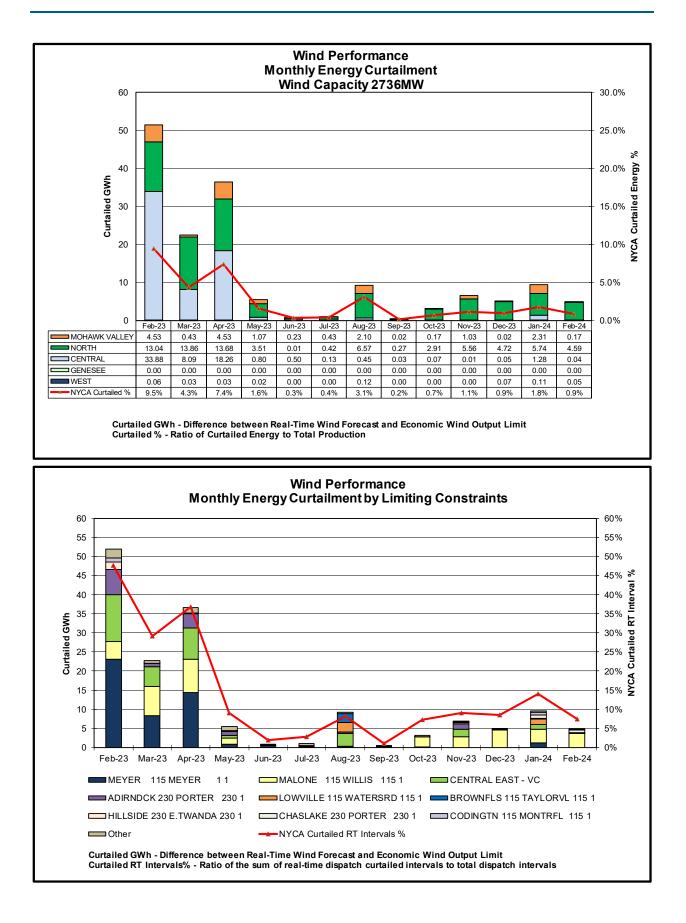




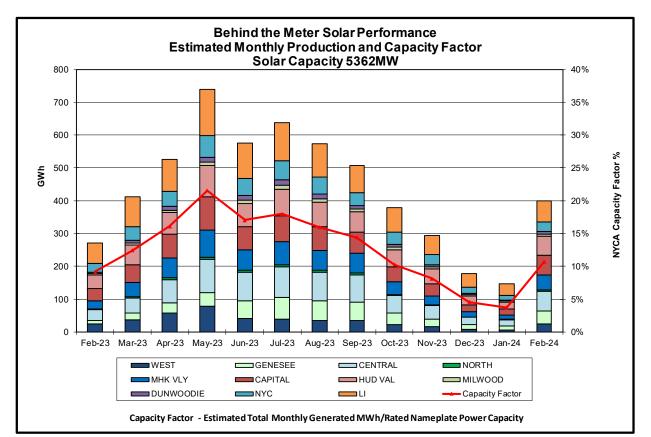


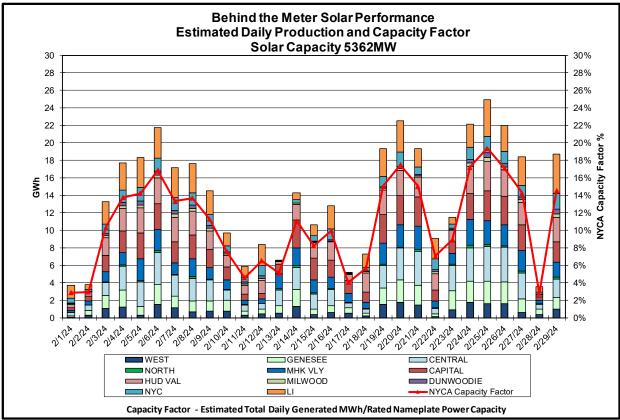




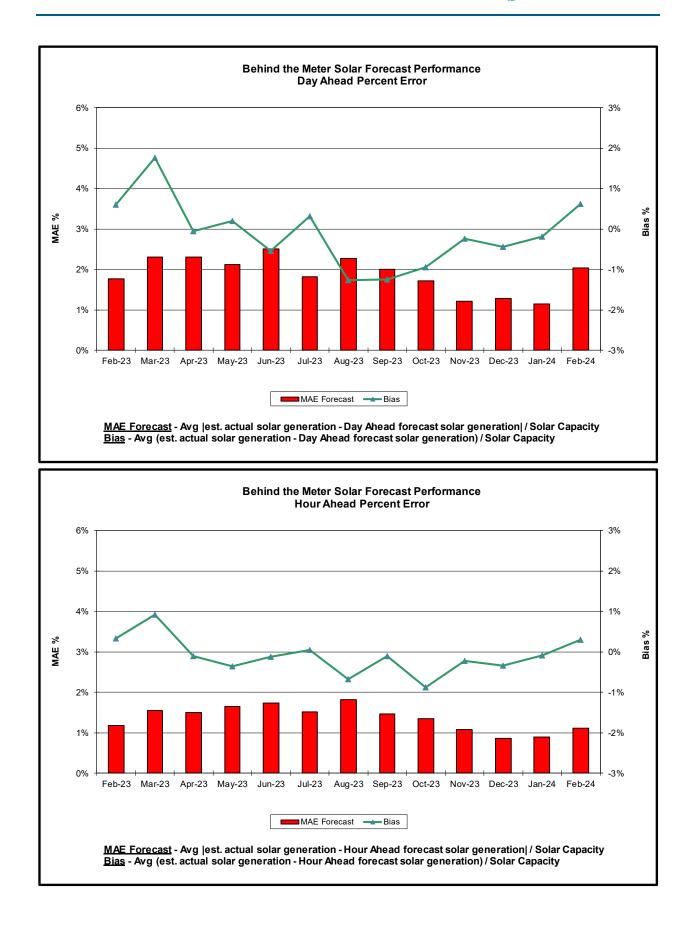




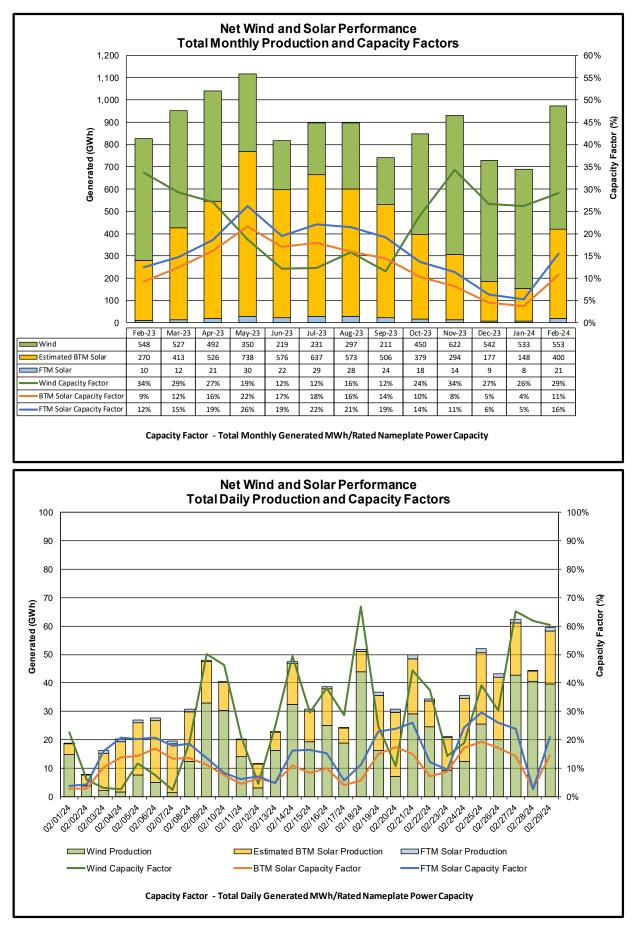




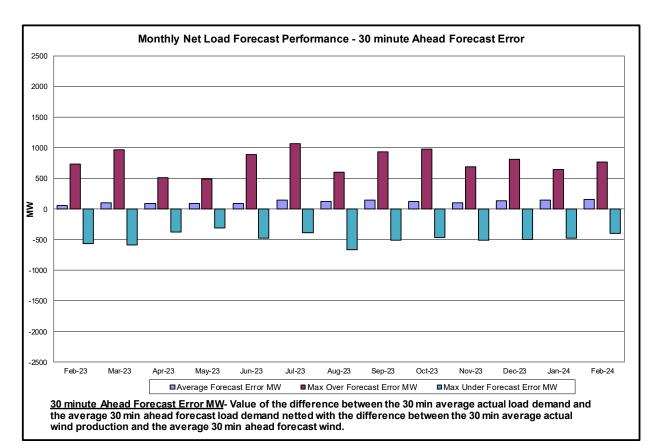
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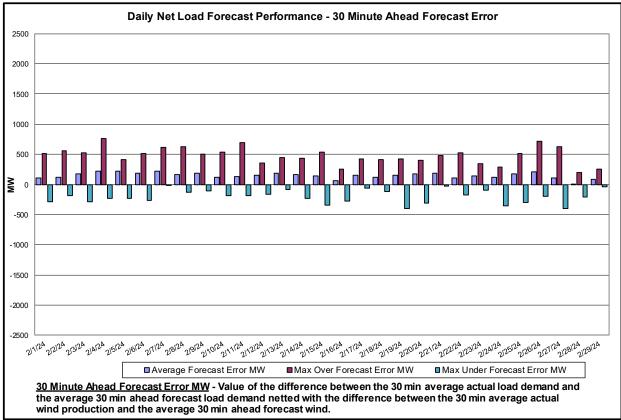




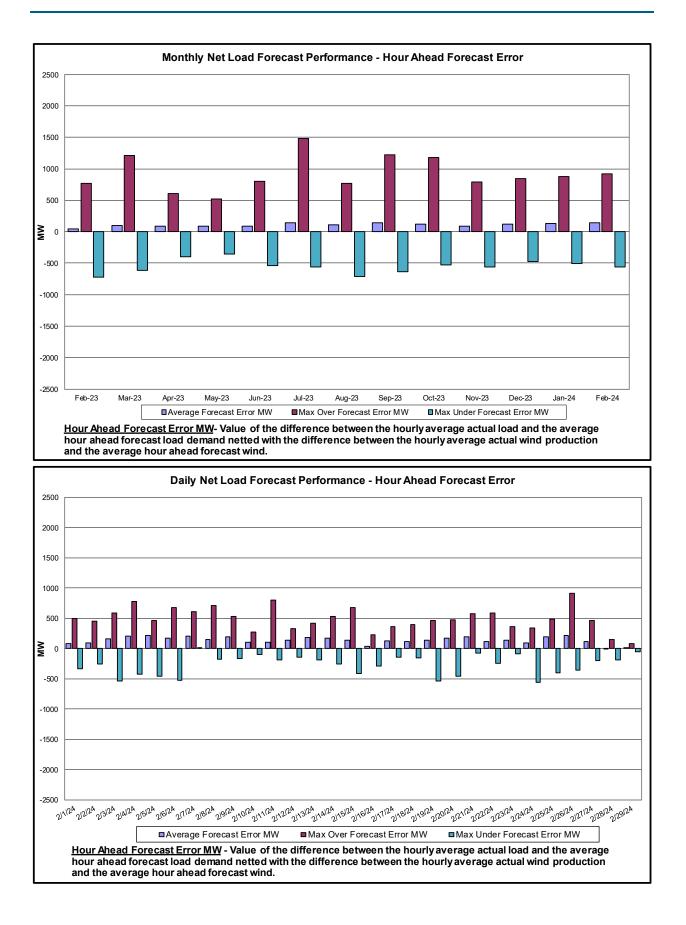




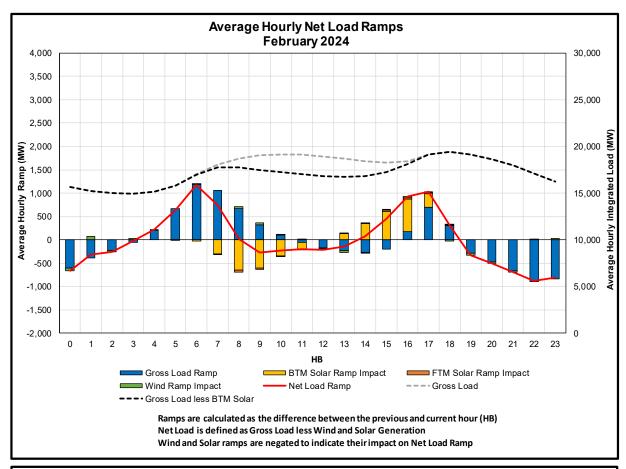


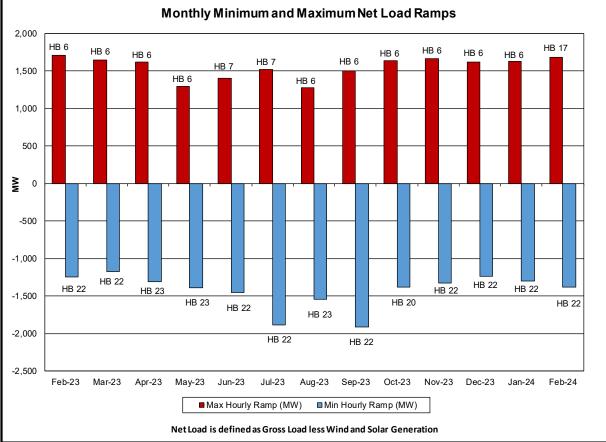


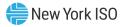


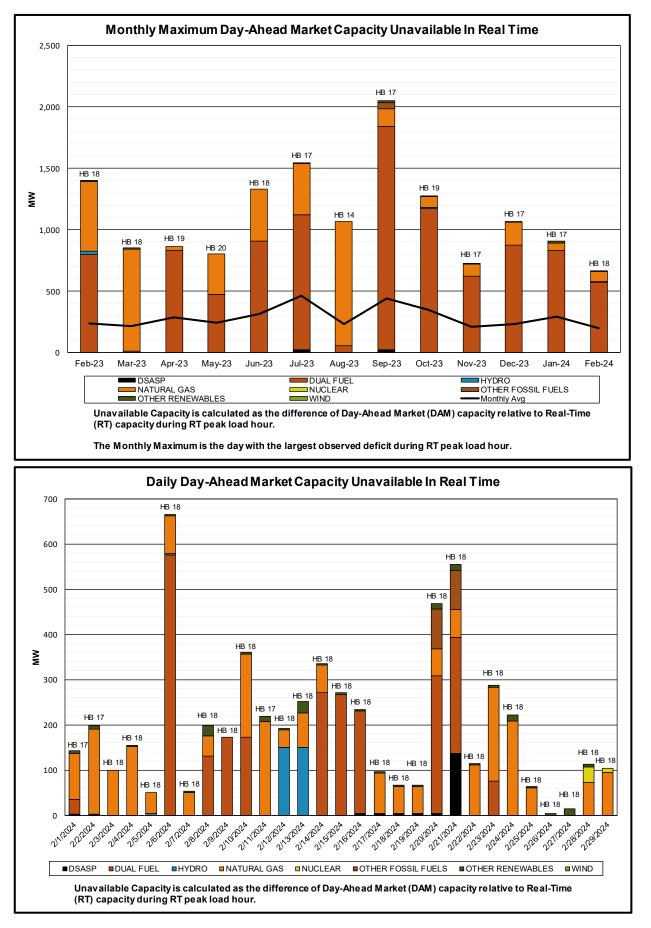


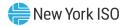
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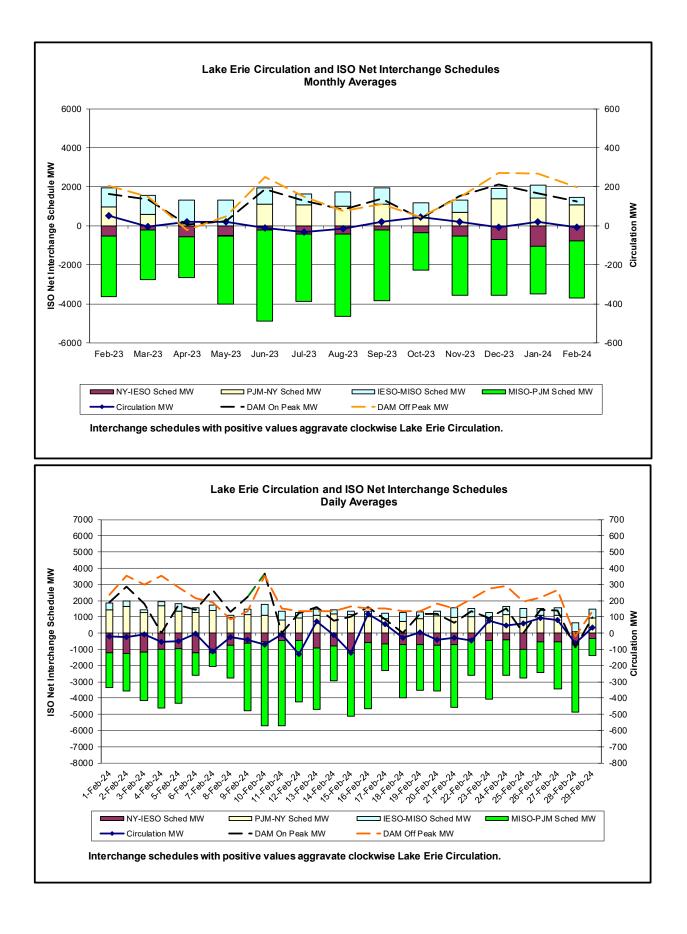




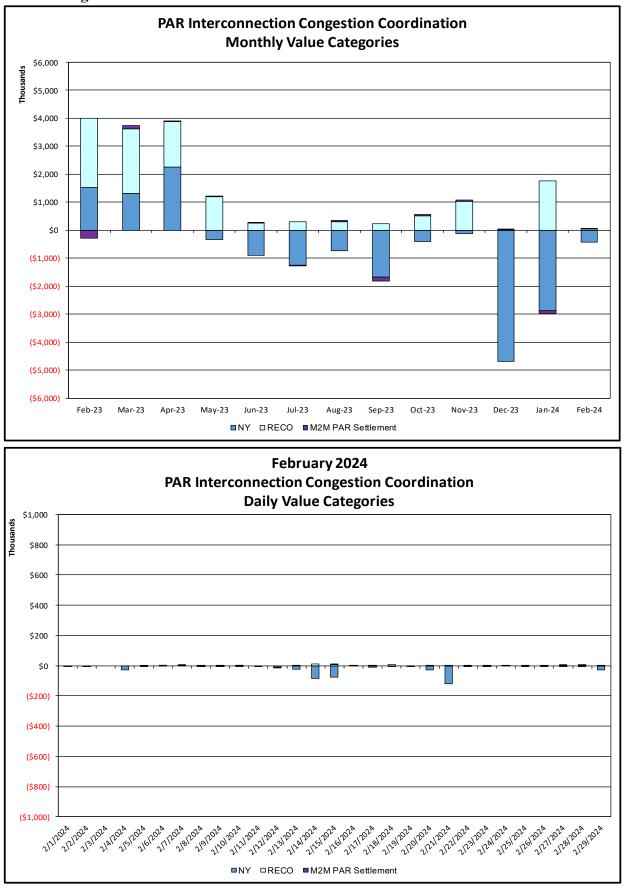










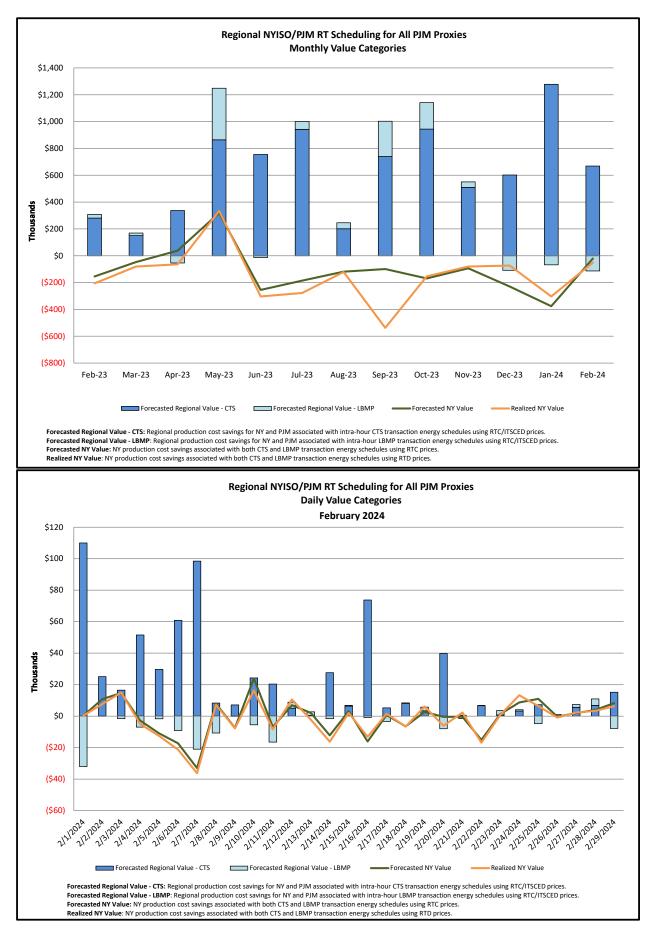


Broader Regional Market Performance Metrics

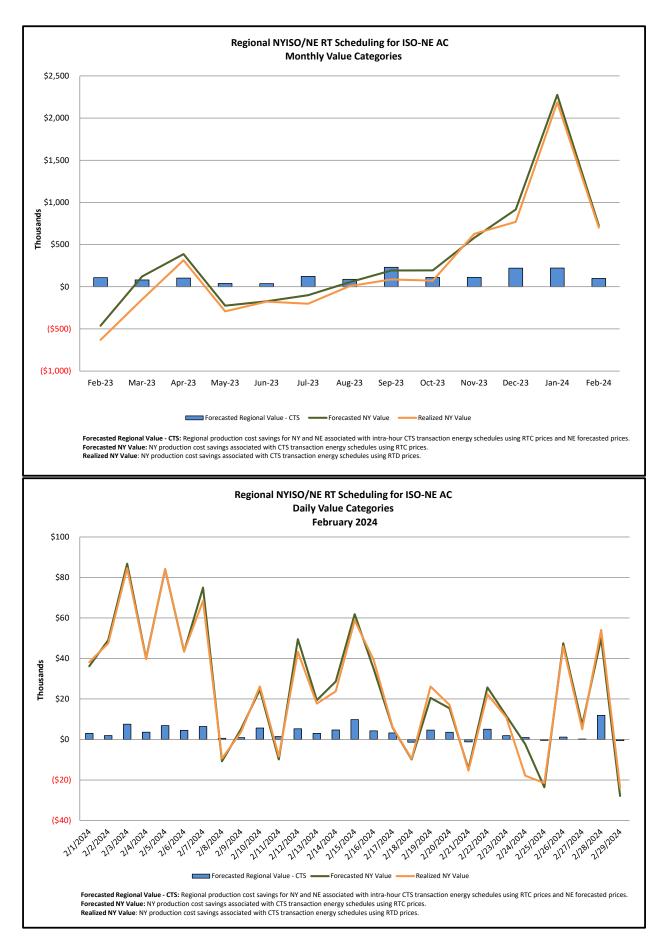


PAR Interconnection Congestion Coordination				
<u>Category</u> NY	<u>Description</u> Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY			
RECO	Represents the value of PJM's obligation 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.			



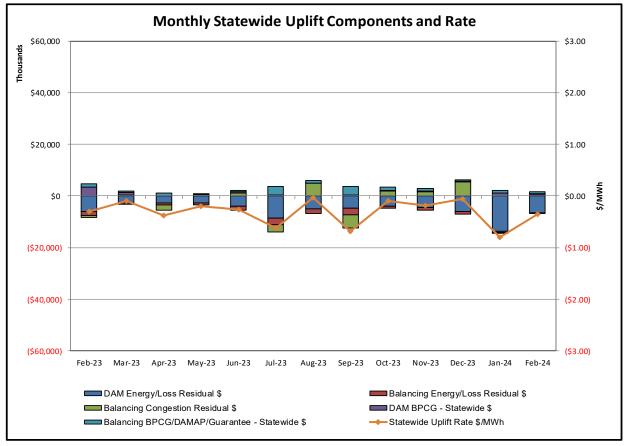


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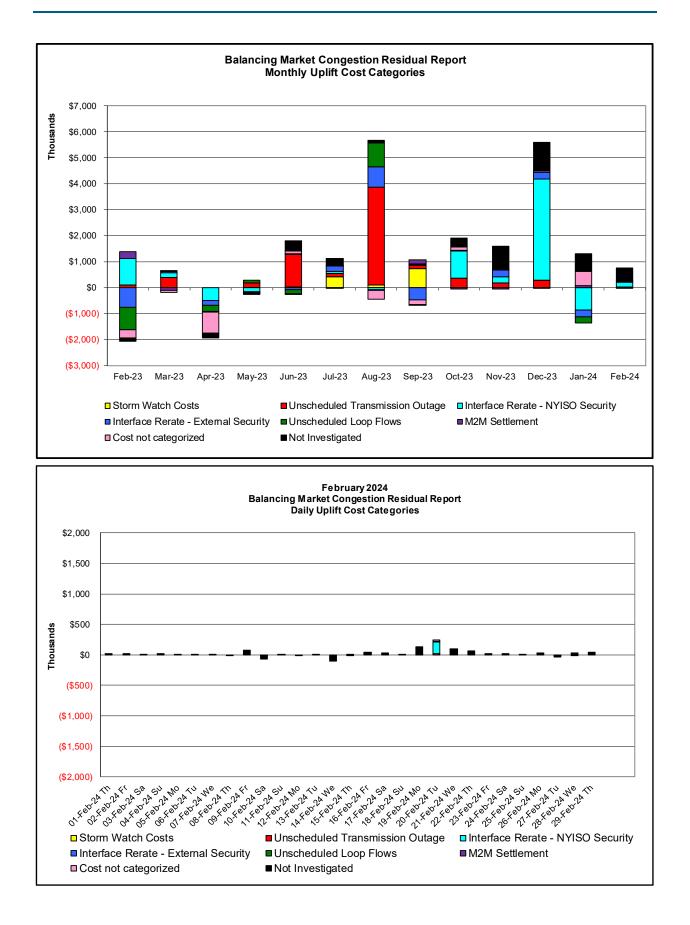




Market Performance Metrics





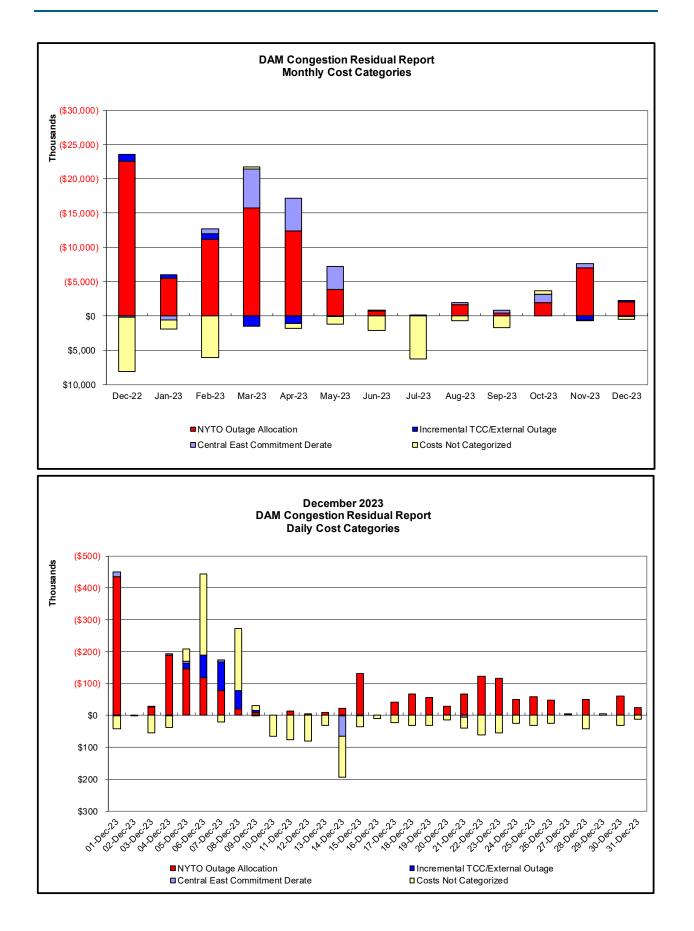




Day's investigated in February: 20			
Event	Date (yyyymmdd)	Hours	Description
	2/20/2024	21	Outage of Northport-Pilgrim 138kV (#679)
	2/20/2024	16-19, 21,22	Derate Deposit-IndianHD 69KV (#675) I/o TWR:HOLBROOK 880 & 882
	2/20/2024	22	NE_AC Active DNI Ramp Limit

Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories					
<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 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					
 Storm Watch Costs are identified as daily total uplift costs 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. Uplift costs associated with multiple event types are apportioned equally by hour 					



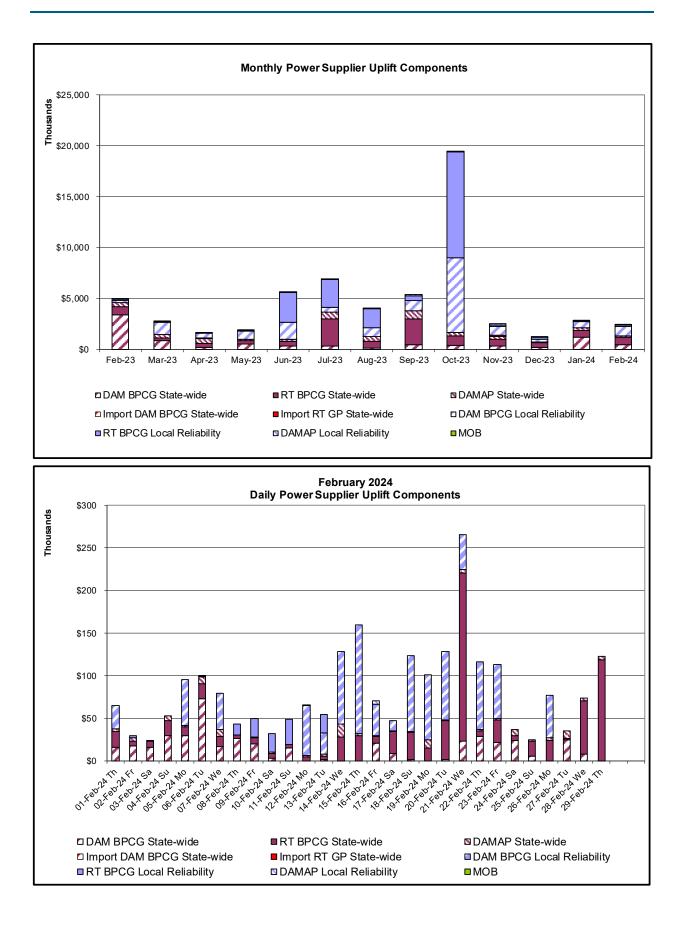




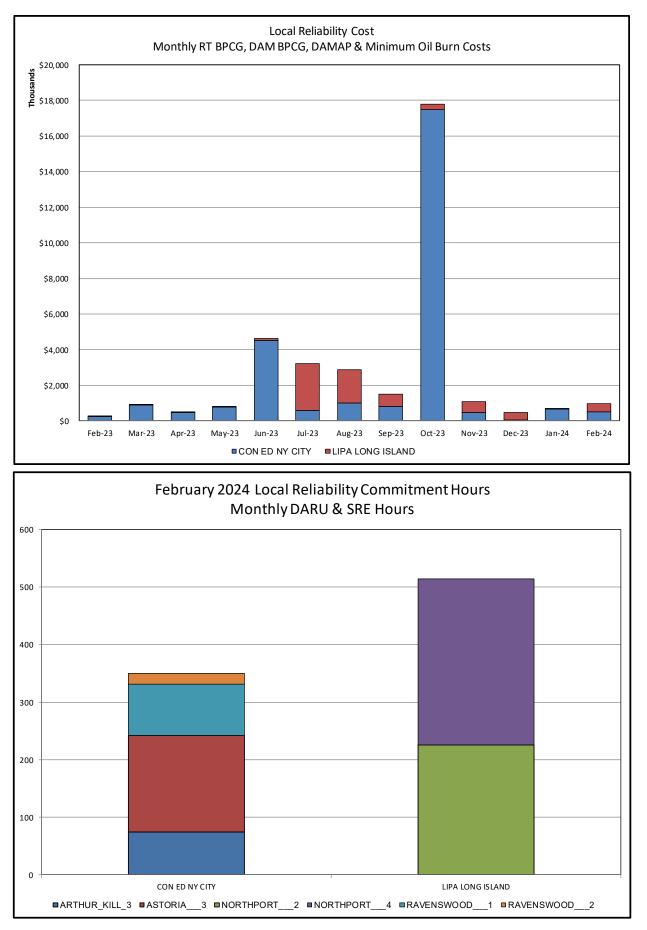
Day-Ahead Market Congestion Residual Categories

<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples 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 Derate	All TO by Monthly Allocation Factor	Reductions in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages.	

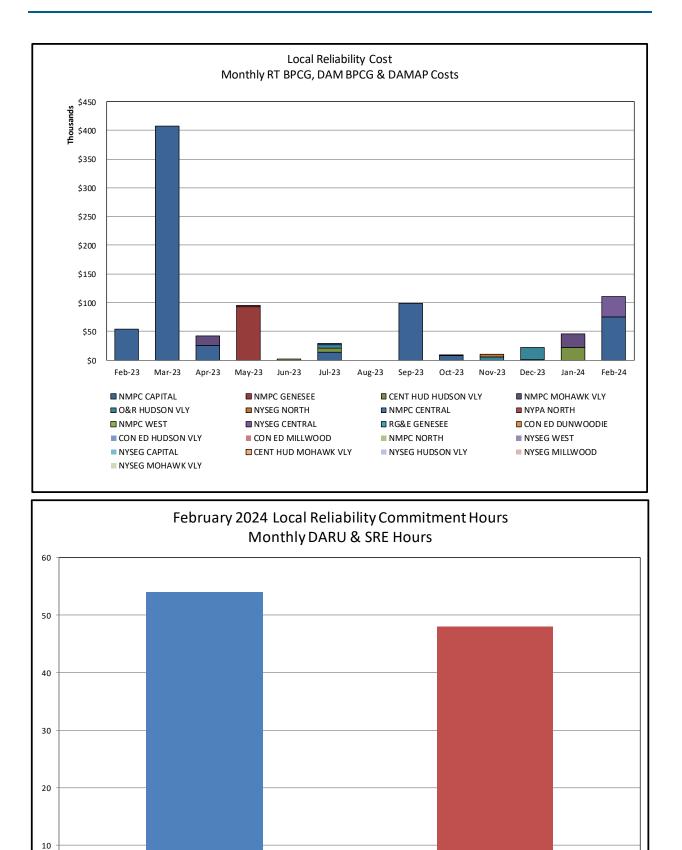












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