Operations Performance Metrics Monthly Report



December 2020 Report

Operations & Reliability Department New York Independent System Operator



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December 2020 Operations Performance Highlights

- Peak load of 22,541 MW occurred on 12/16/2020 HB 17
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 0 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- To reduce risks from COVID-19, the NYISO continues to take several actions to maintain critical business operations and protect the health and well-being of our employees and stakeholders.
- The following table identifies the estimated production cost savings associated with the Broader Regional Market initiatives.

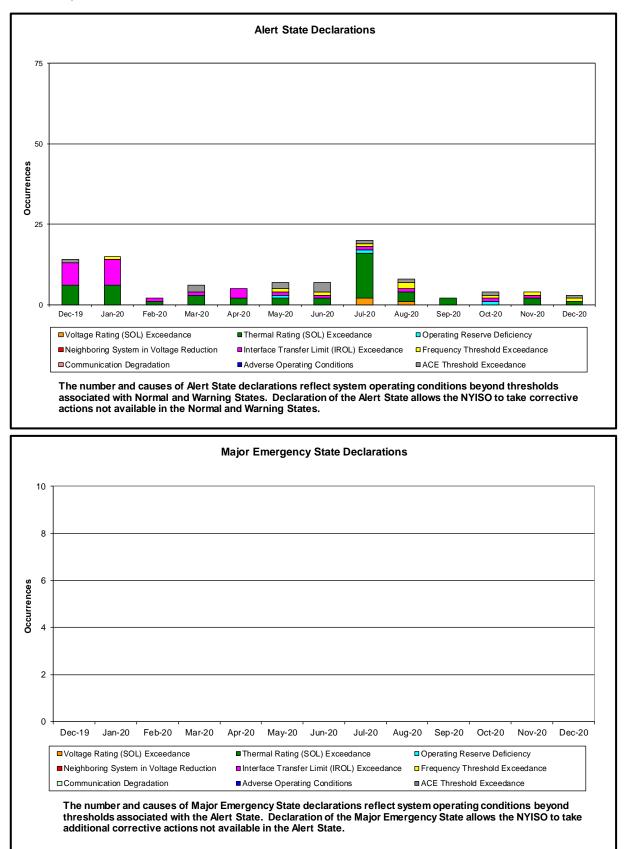
	Current Month	Year-to-Date
	Value (\$M)	Value (\$M)
NY Savings from PJM-NY Congestion Coordination	\$1.23	\$4.34
NY Savings from PJM-NY Coordinated Transaction Scheduling	(\$0.44)	(\$1.44)
NY Savings from NE-NY Coordinated Transaction Scheduling	\$0.32	\$1.99
Total NY Savings	\$1.11	\$4.89
Regional Savings from PJM-NY Coordinated Transaction Scheduling	\$0.41	\$2.59
Regional Savings from NE-NY Coordinated Transaction Scheduling	\$0.08	\$0.30
Total Regional Savings	\$0.49	\$2.89

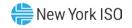
- Statewide uplift cost monthly average was (\$0.38)/MWh.
- The following table identifies the Monthly ICAP spot market prices and the price delta.

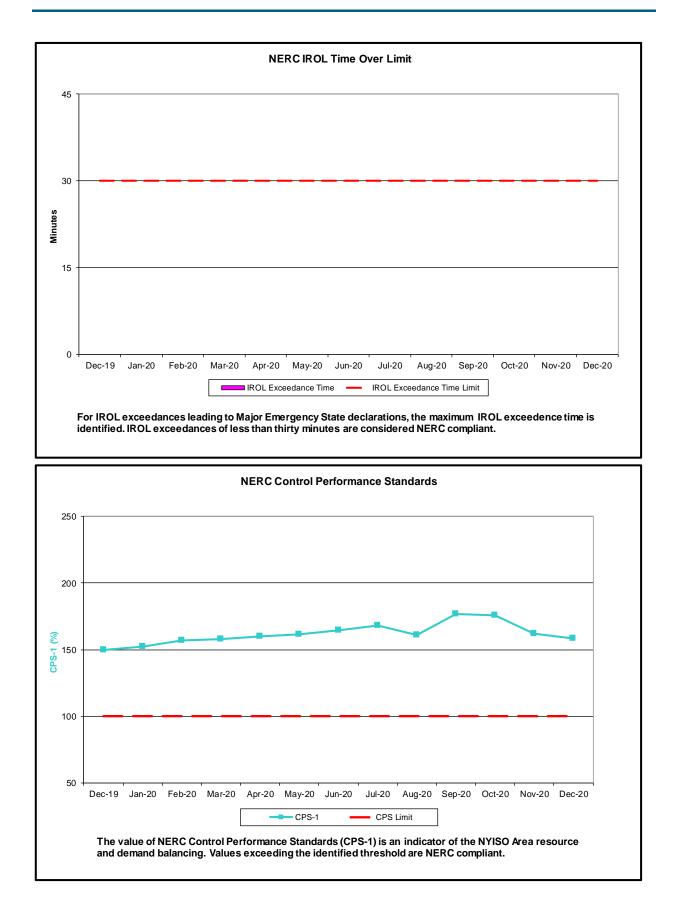
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
January 2021 Spot Price	\$0.06	\$0.06	\$8.56	\$0.06
December 2020 Spot Price	\$0.10	\$0.10	\$8.57	\$0.10
Delta	(\$0.04)	(\$0.04)	(\$0.01)	(\$0.04)



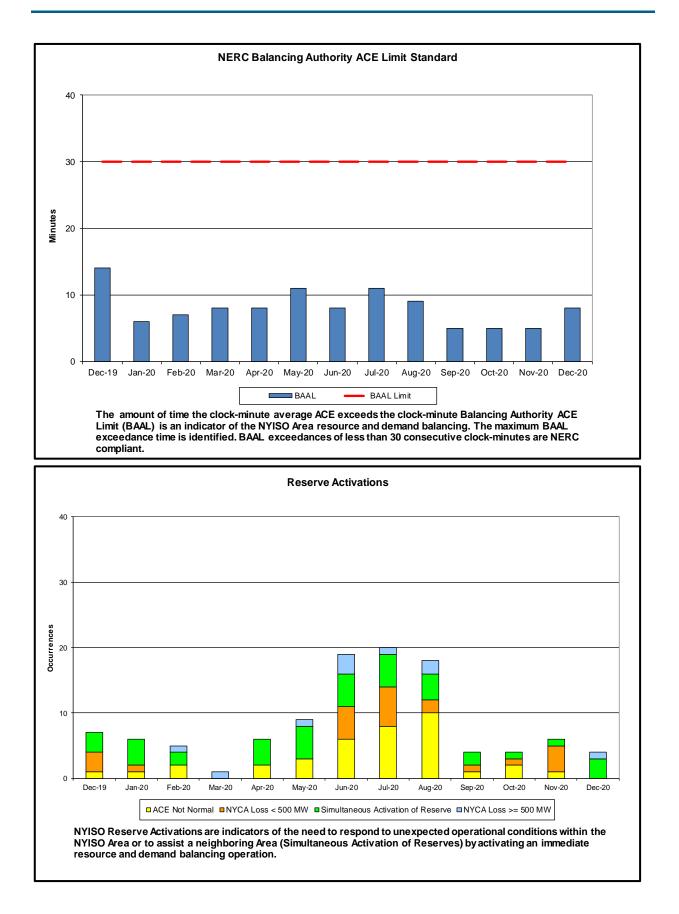
Reliability Performance Metrics

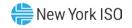


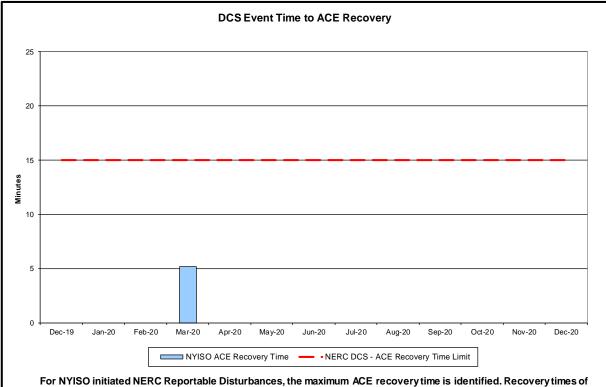




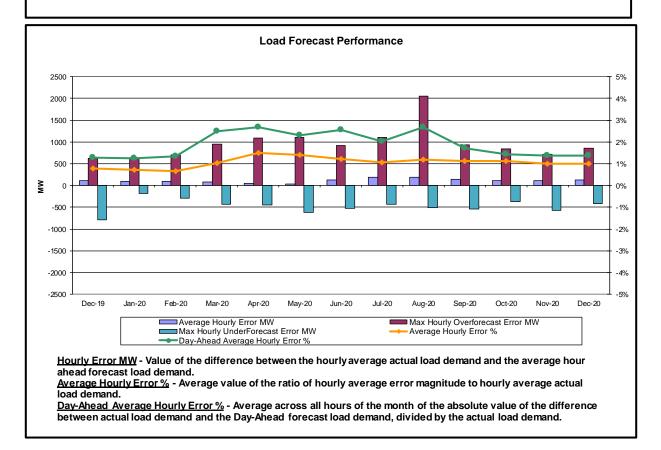




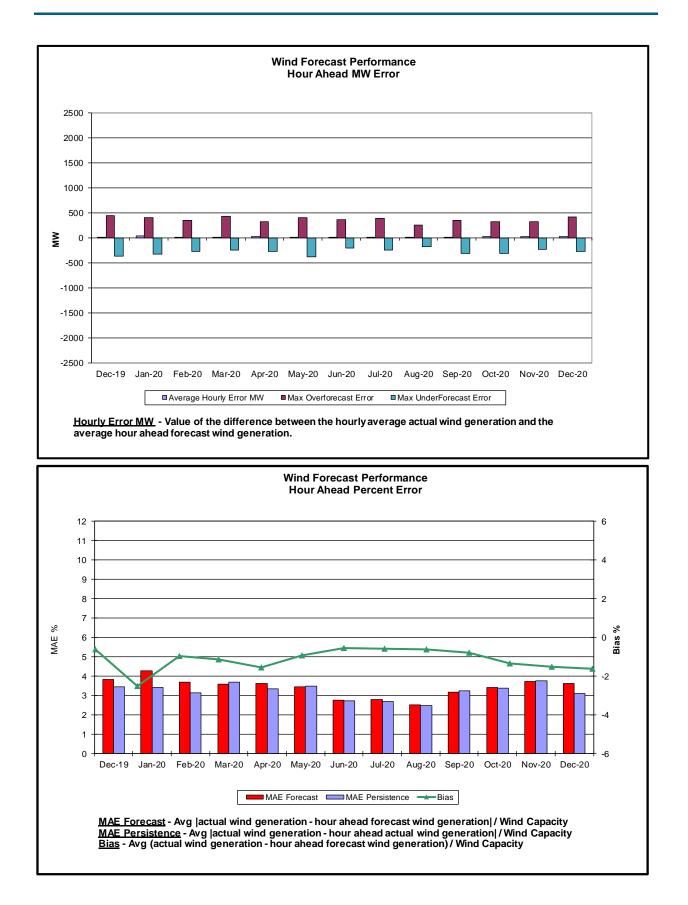




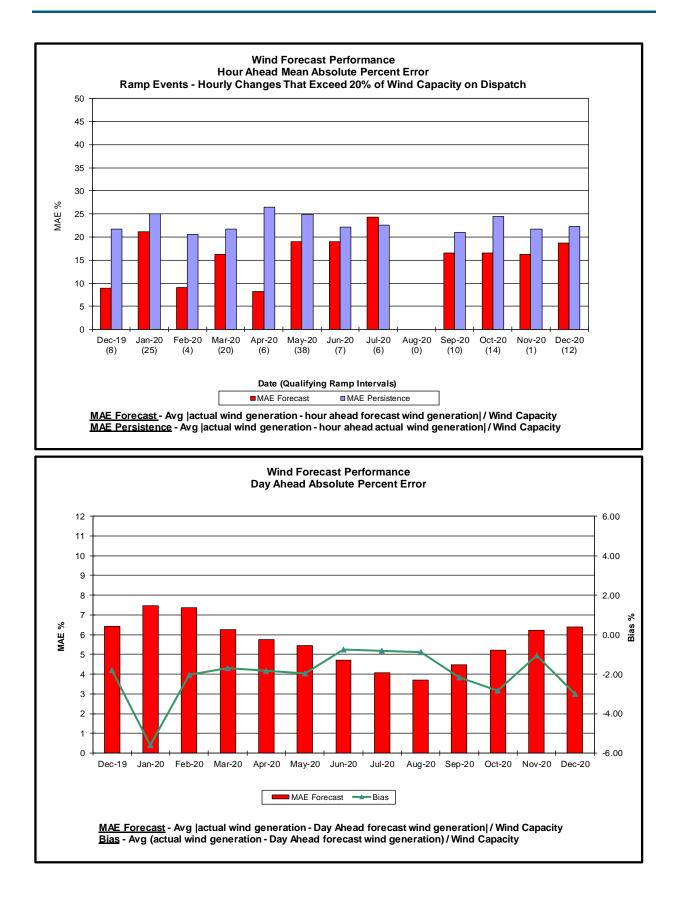
less than 15 minutes are considered NERC compliant.



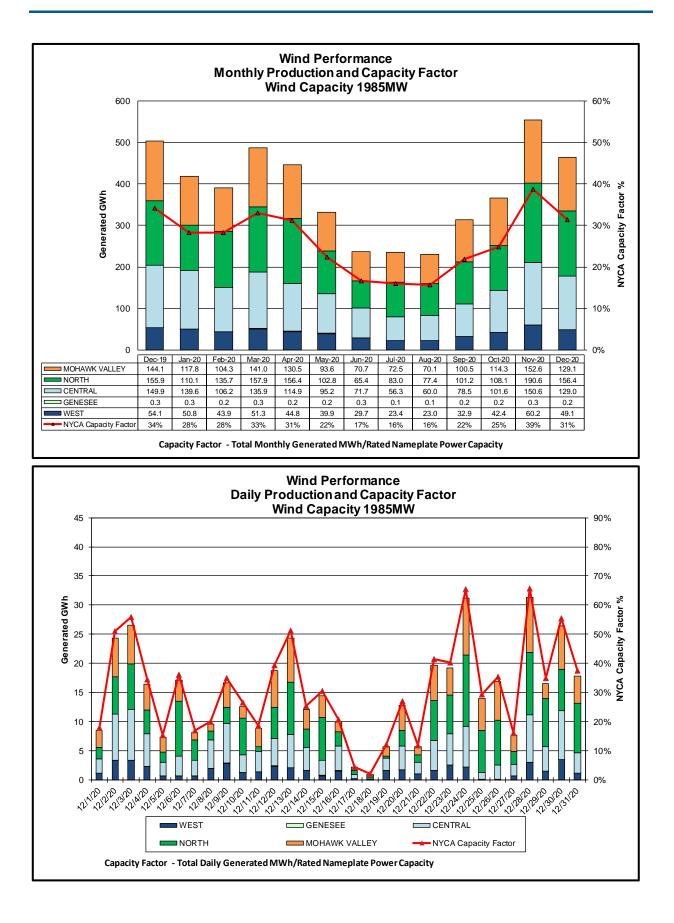
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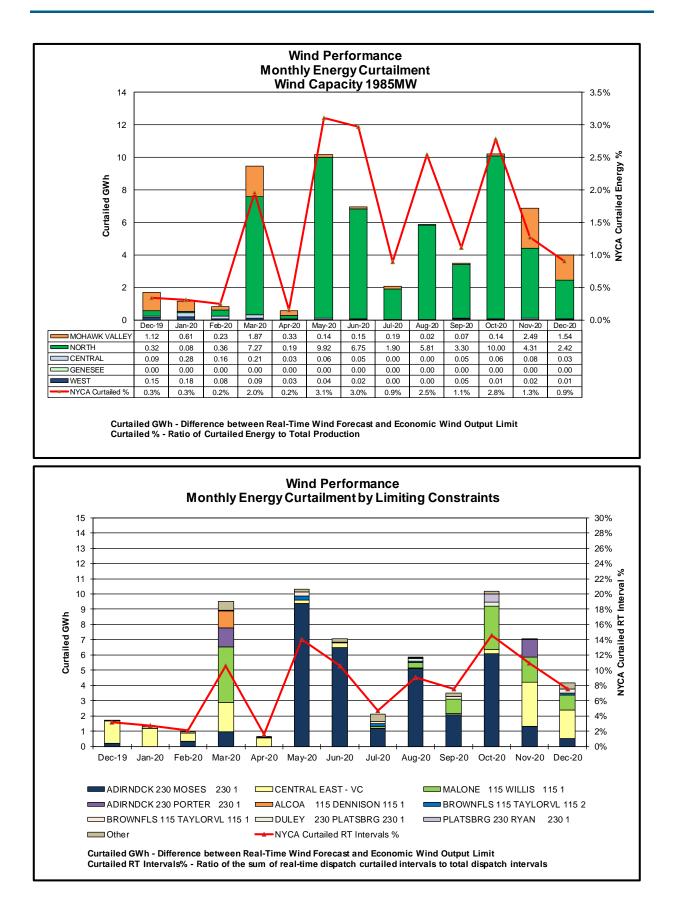




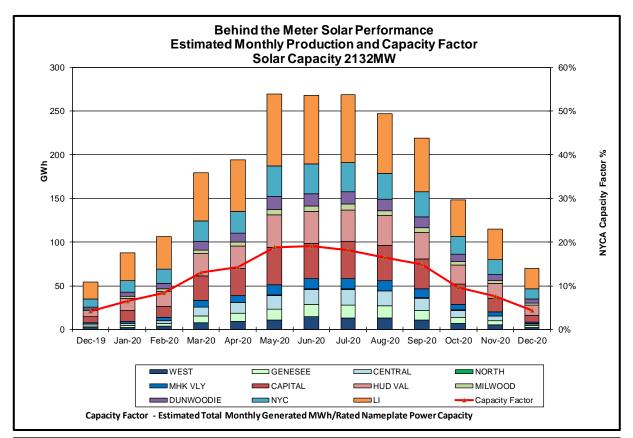


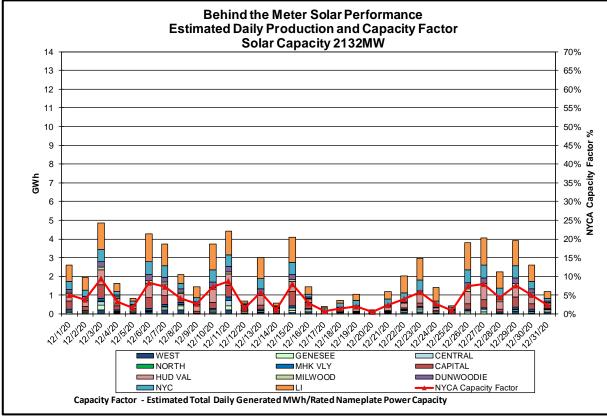




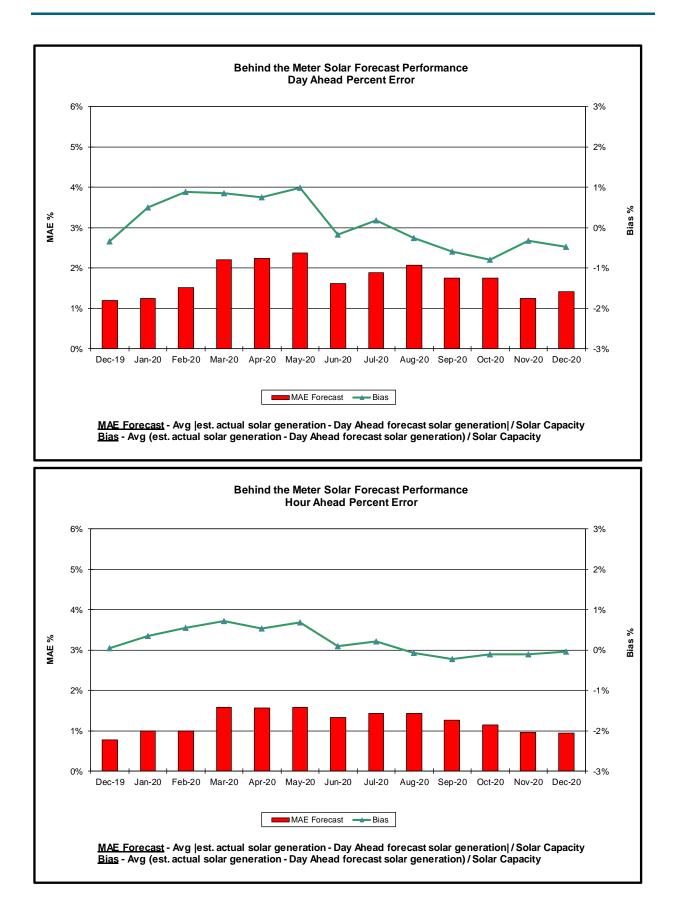




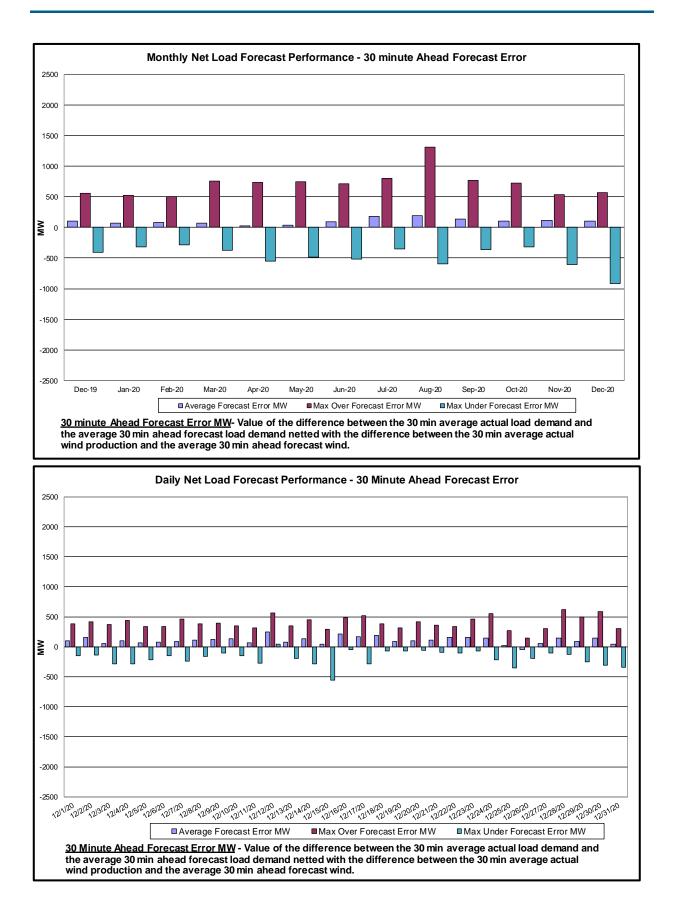




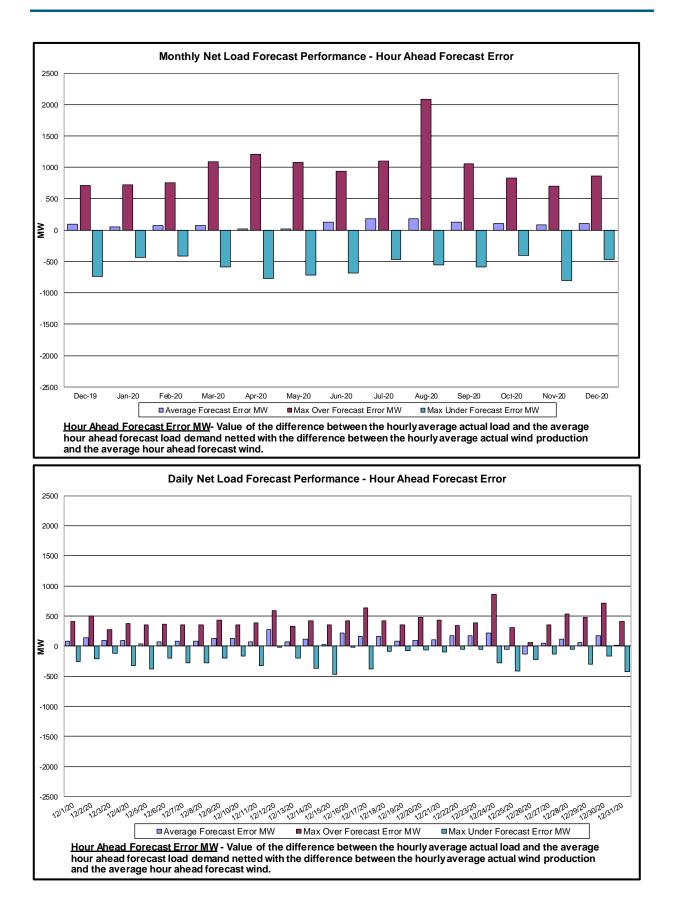
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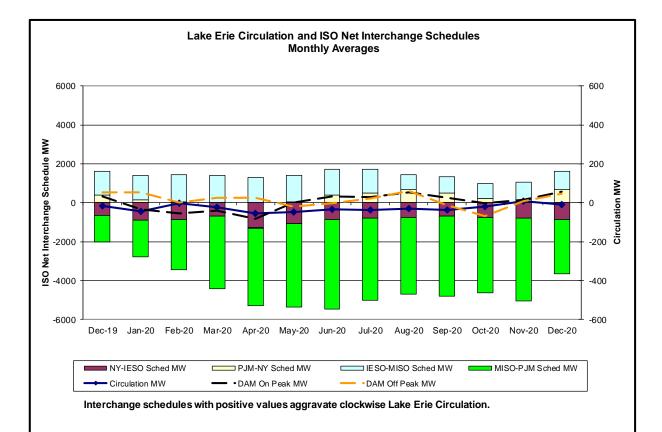


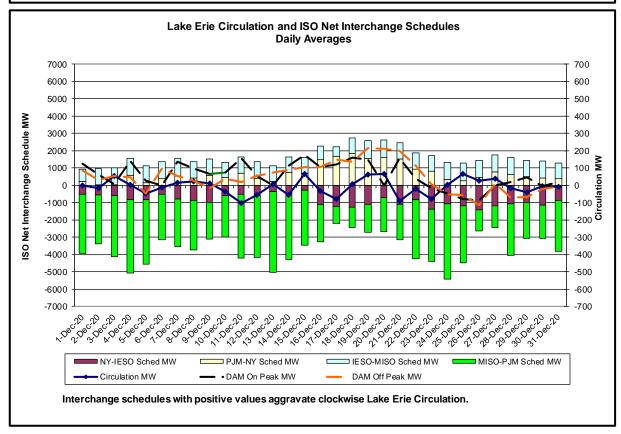




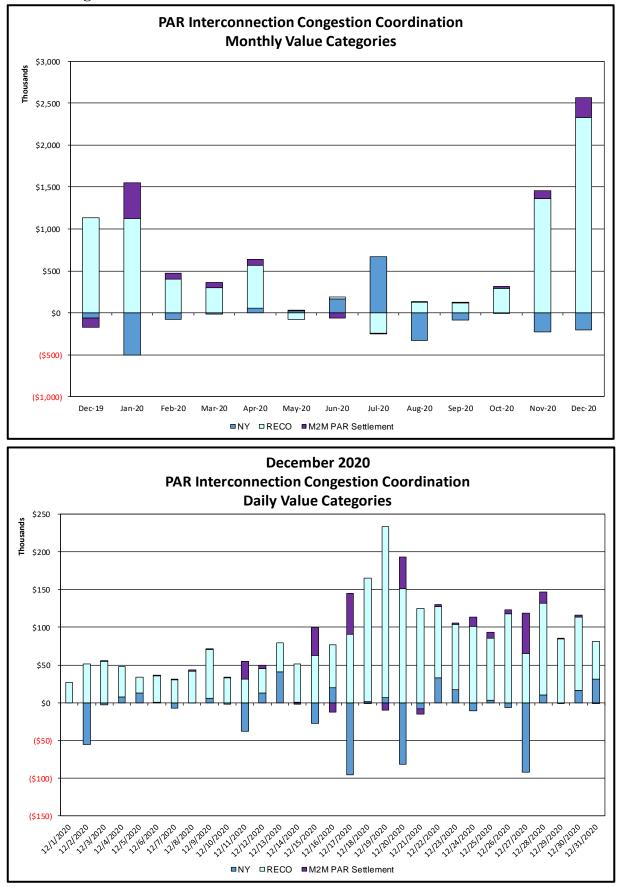




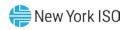






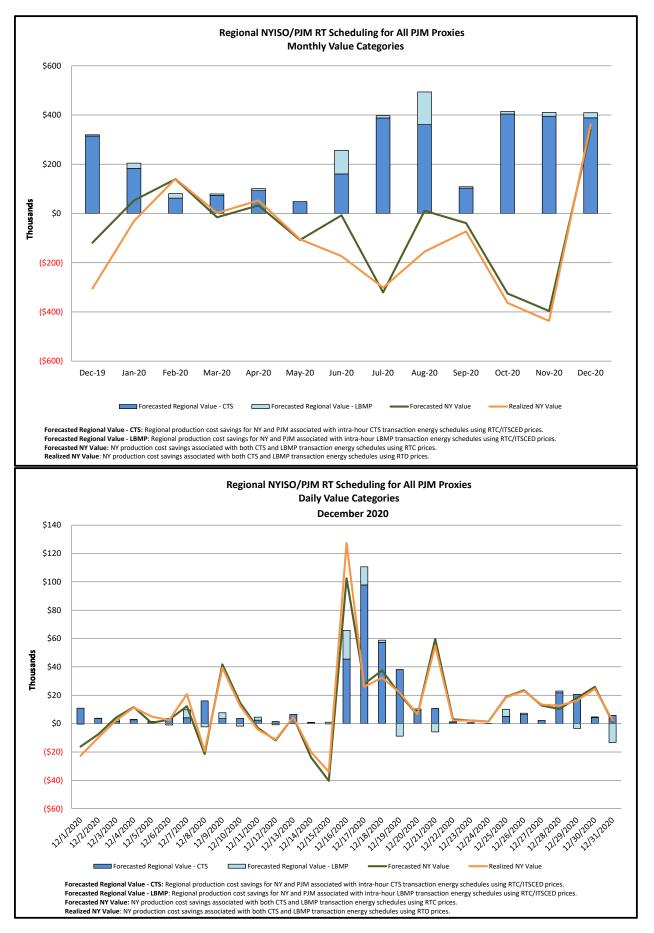


Broader Regional Market Performance Metrics

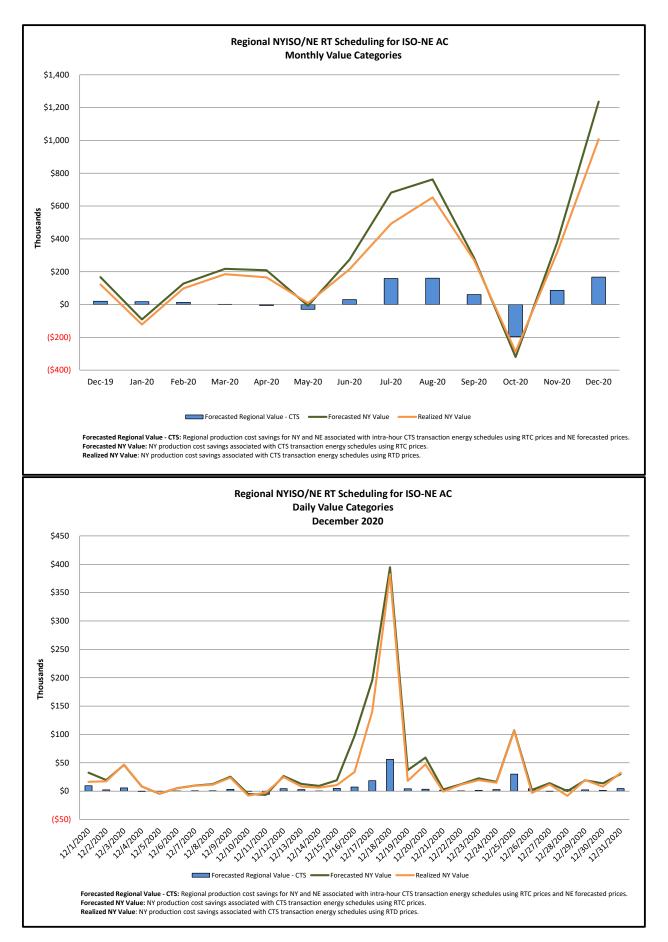


PAR Interconnection Congestion Coordination			
<u>Category</u> NY	Description Represents the value NY realizes from Market-to-Market PAR Coordination when experiencing congestion. This is the estimated savings to NY for additional deliveries into NY		
RECO	Represents the value of PJM's obligation to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



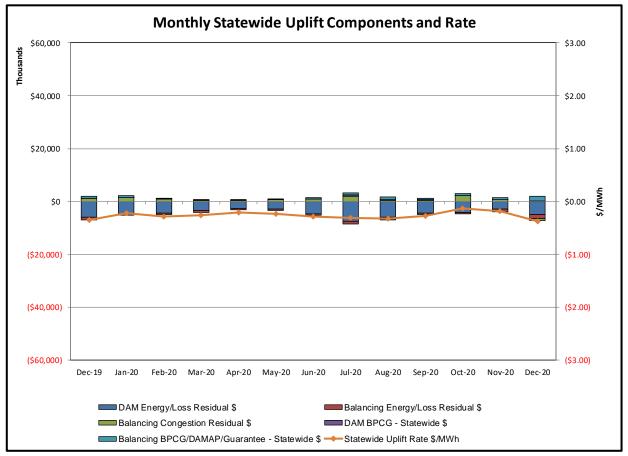


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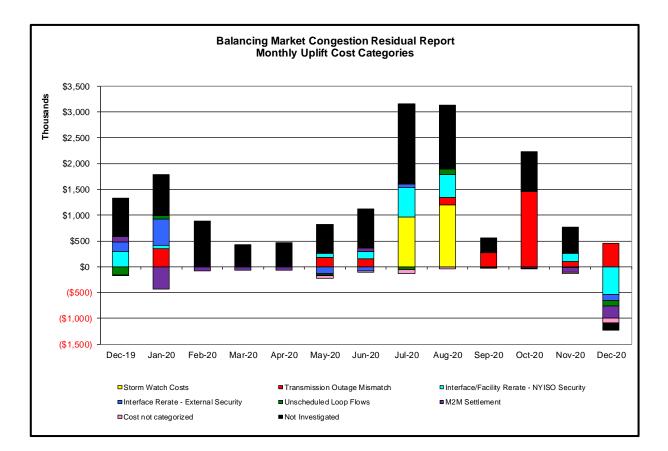


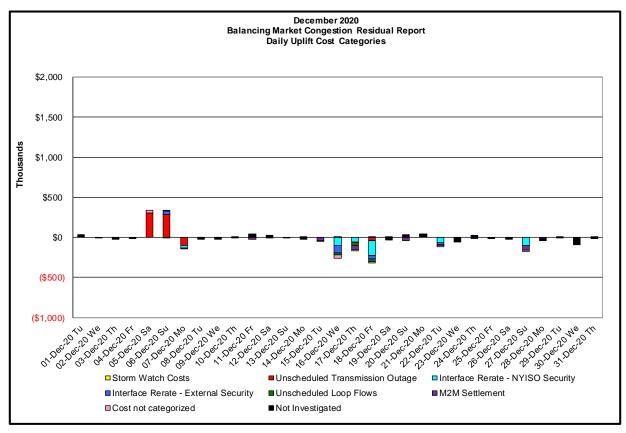


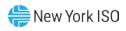
Market Performance Metrics







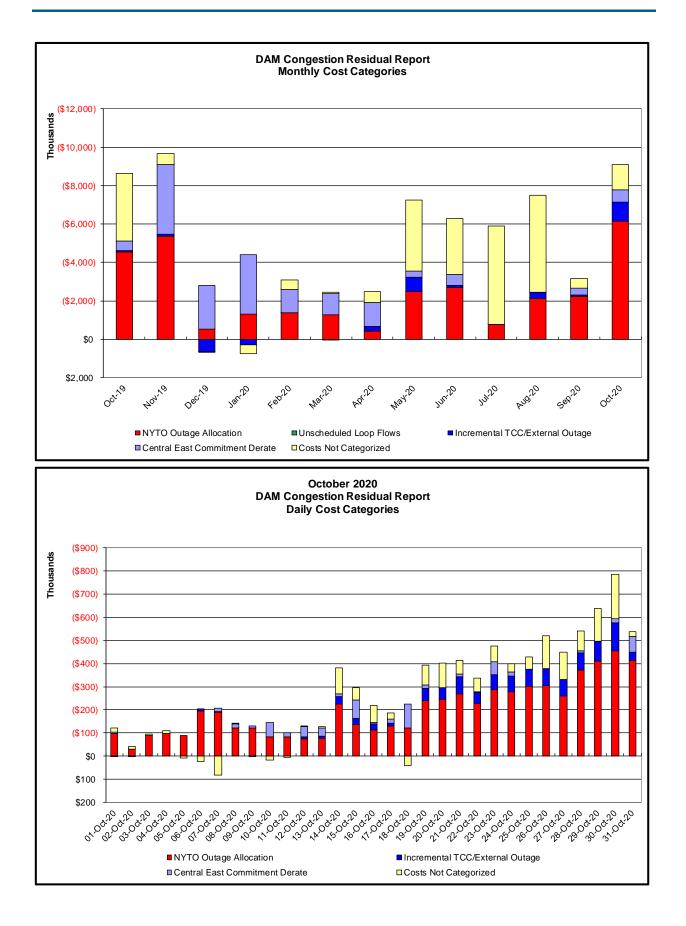




Event	Date (yyyymmdd)	r: 5,6,7,16,17,18,22,27 Hours	Description
LIVOIN	12/5/2020		Forced outage Sprainbrook-East Garden City 345kV (#Y49)
	12/6/2020		Forced outage Sprainbrook-East Garden City 345kV (#Y49)
	12/6/2020		NYCA ACTIVE DNI Ramp Limit
	12/6/2020		HQ_CHAT - NY (NET) Scheduling Limit
	12/7/2020		Early return to service Freshkills-Willowbrook 138kV (#29211)
	12/7/2020	7	Uprate of Niagara Blvd-Packard 115 kV (#181-922) for I/o TWR:PACKARD 77 & 7
	12/16/2020	6	NYCA ACTIVE DNI Ramp Limit
	12/16/2020	1-3,9,23	Uprate Central East
	12/16/2020	6,9,17	NE_AC ACTIVE DNI Ramp Limit
	12/16/2020	3	IESO_AC ACTIVE DNI Ramp Limit
	12/16/2020	1-3,9,23	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	12/17/2020	19,20	NYCA ACTIVE DNI Ramp Limit
	12/17/2020	0,13,14,19-21,23	Uprate Central East
	12/17/2020	20	IESO_AC Scheduling Limit
	12/17/2020		NE_AC - NY Scheduling Limit
	12/17/2020	8,17	NE_AC ACTIVE DNI Ramp Limit
	12/17/2020		PJM_AC-NY Scheduling Limit
	12/17/2020		PJM_AC ACTIVE DNI Ramp Limit
	12/17/2020		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	12/18/2020		Early return to service Platsburgh - Sand Bar 115kV (#PV20)
	12/18/2020		Uprate Central East
	12/18/2020		IESO_AC Scheduling Limit
	12/18/2020		NE_AC - NY Scheduling Limit
	12/18/2020	, , , ,	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	12/18/2020		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; West
	12/22/2020		Derate C.Islip - Hauppauge138kV (#889) for TWR:HOLTSVLLE 881& 882& 880
	12/22/2020		Uprate Central East
	12/22/2020		HQ_CHAT - NY Scheduling Limit
	12/22/2020	,	NE_AC - NY Scheduling Limit
	12/22/2020		Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East
	12/27/2020		NYCA ACTIVE DNI Ramp Limit
	12/27/2020		
	12/27/2020	22	Lake Erie Circulation, DAM-RTM exceeds +/-125MW; Central East

<u>Category</u>	<u>Cost Assignment</u>		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 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 Rerate 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	
M2M Settlement	Market-wide	Settlement result inclusive of coordinated redispatch and	







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.	

