Operations Performance Metrics Monthly Report



August 2014 Report

Operations & Reliability Department New York Independent System Operator



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August 2014 Operations Performance Highlights

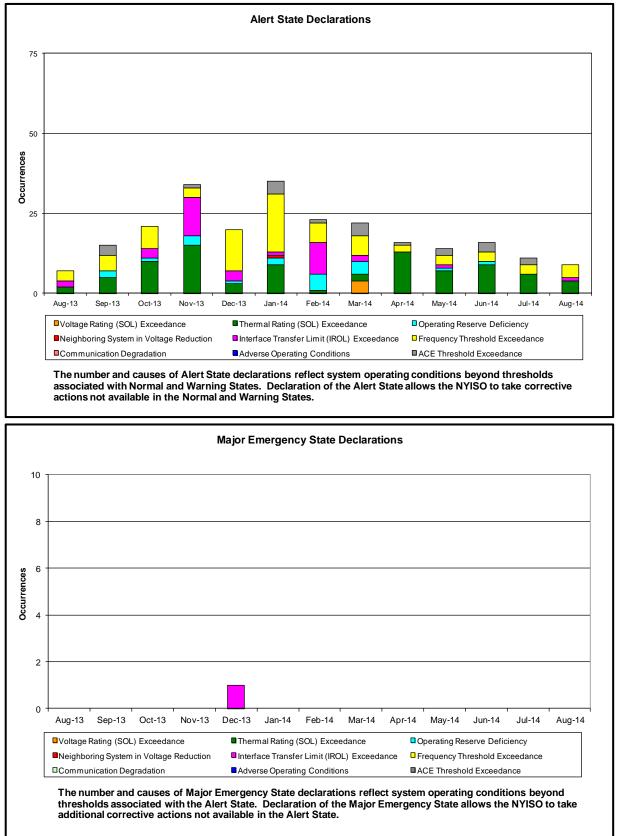
- Peak load of 27,252 MW occurred on 8/27/2014 HB 16
- All-time summer capability period peak load of 33,956 MW occurred on 7/19/2013 HB 16
- 10 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- Broader Regional Market Coordination monthly value was \$0.01M
- Broader Regional Market Coordination year-to-date value was \$6.67M
- Statewide uplift cost monthly average was \$(0.46)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality and the price changes from the prior month,

Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
September 2014 Spot Price	\$5.60	\$12.04	\$18.17	\$6.47
Change from Prior Month	(\$0.20)	(\$0.21)	(\$0.39)	\$0.00

- NYCA Price is reduced by \$0.20 due to an increase in Generation UCAP of 39.8 MW and a reduction of SCR Unoffered MWs by 26.0.
- LHV Price is reduced by \$0.21 due to an increase in Generation UCAP of 29.7 MW.
- NYC Price is reduced by \$0.39 due to an increase in Generation UCAP of 29.7 MW.

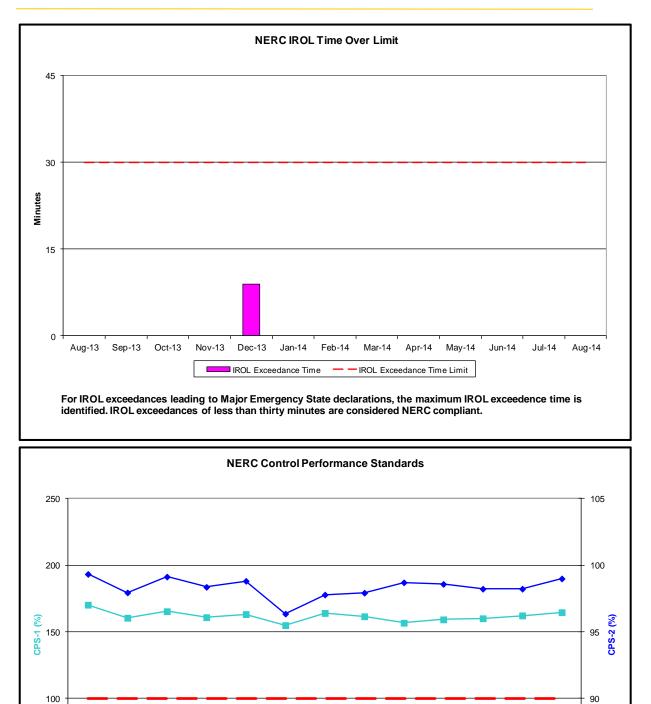


Reliability Performance Metrics





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CPS Limit

The values of NERC Control Performance Standards (CPS-1 and CPS-2) are indicators of the NYISO Area resource and demand balancing. Values exceeding the identified thresholds are NERC compliant.

CPS-2

Aug-13 Sep-13 Oct-13 Nov-13 Dec-13 Jan-14 Feb-14 Mar-14 Apr-14 May-14 Jun-14

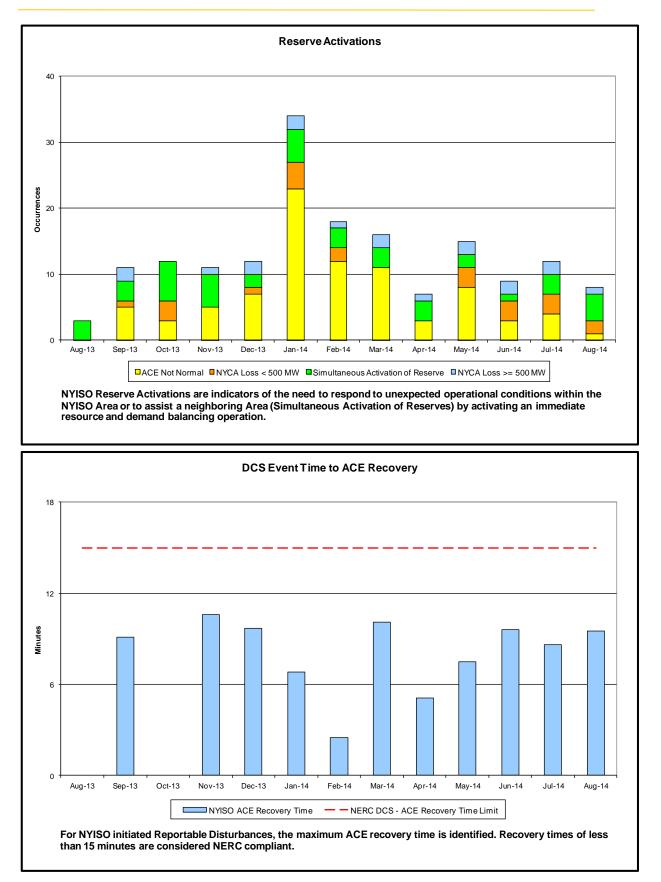
CPS-1

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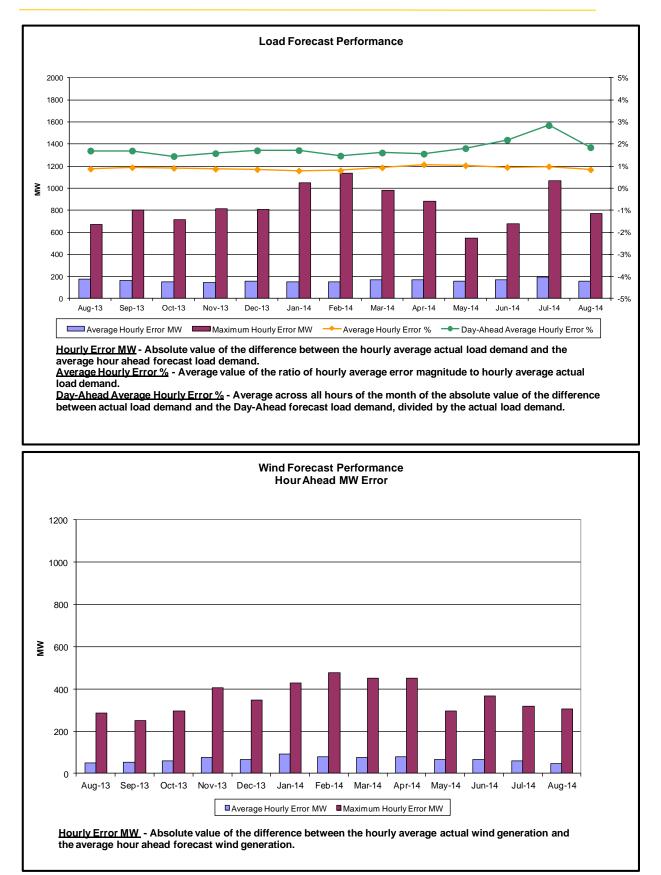
Aug-14

Jul-14

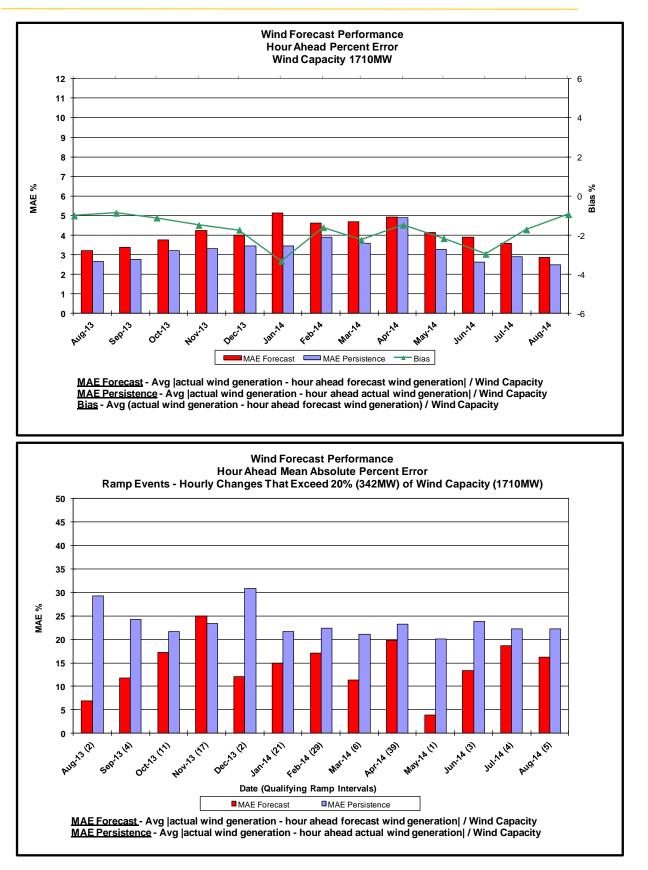




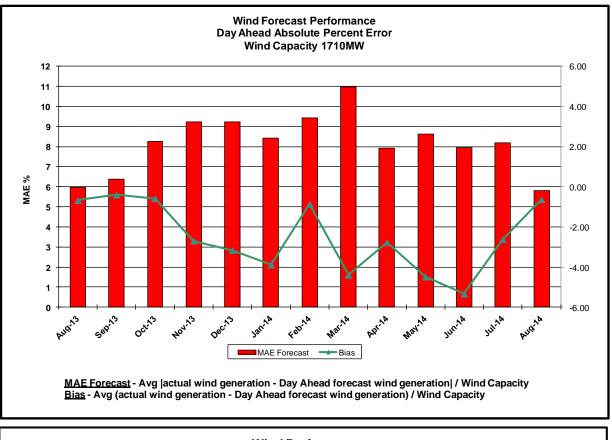


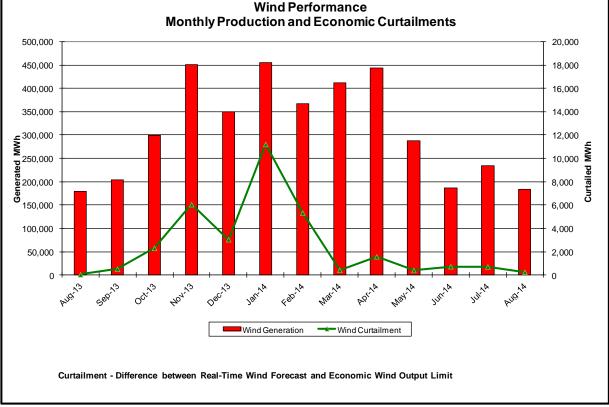




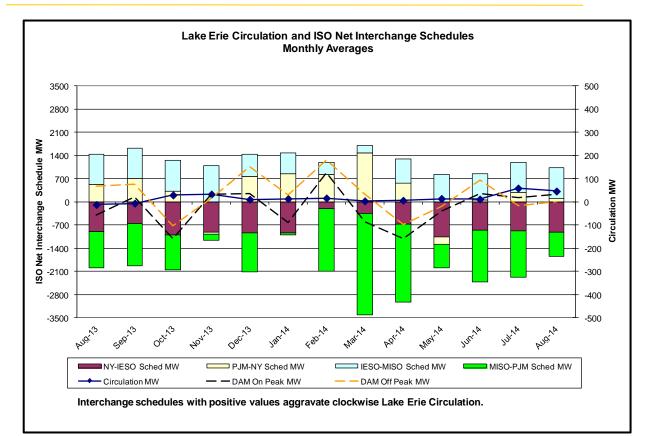


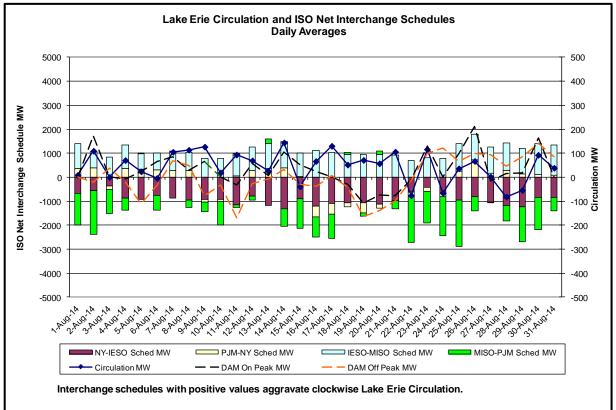




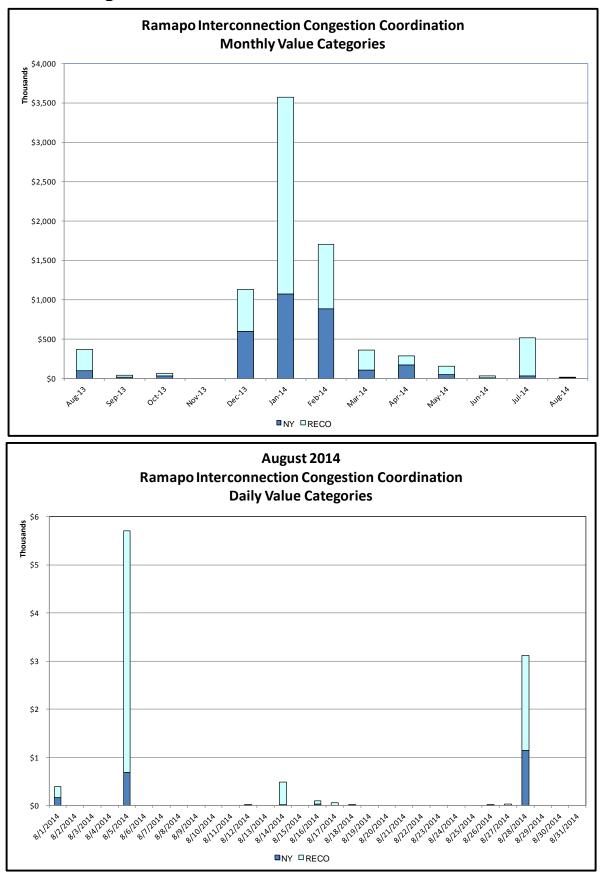












Broader Regional Market Performance Metrics



Ramapo Interconnection Congestion Coordination

<u>Category</u> NY

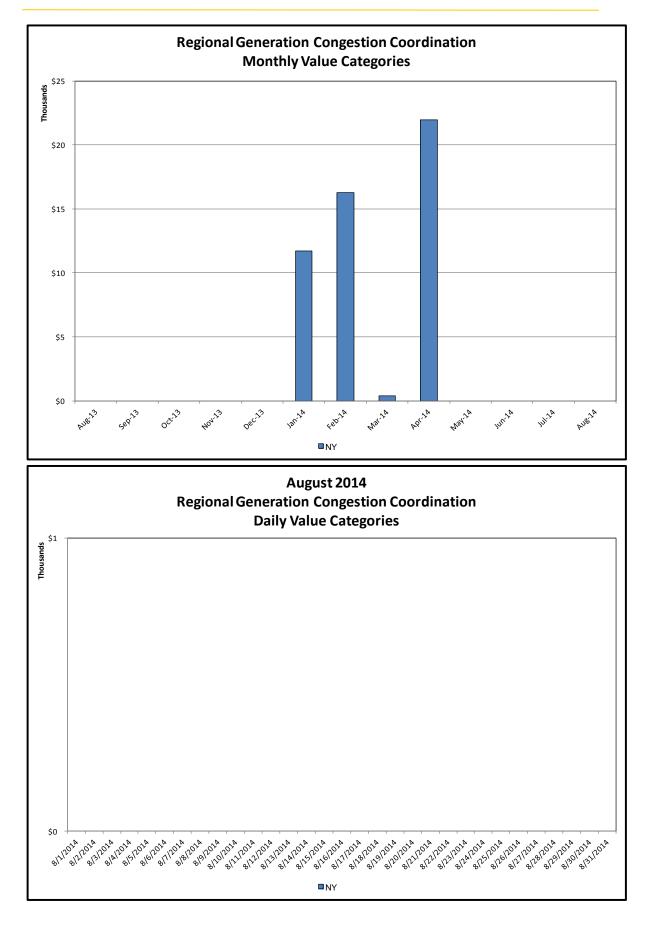
RECO

Description

Represents the value NY realizes from Market-to-Market Ramapo Coordination. When experiencing congestion, this includes (1) the estimated savings to NY for additional deliveries into NY, plus (2) PJM compensation to NY for additional deliveries into PJM (as compared to the Ramapo Target level, excluding RECO). This is net of any settlements to PJM when they are congested.

Represents the value of PJM's obligation to deliver 80% of service to RECO load over Ramapo 5018. This includes (1) the estimated reduction in NYCA congestion due to the PJM delivery of RECO over Ramapo 5018, plus (2) PJM compensation to NY for NYCA congestion for the under-delivery or inability to deliver service to RECO load over Ramapo 5018.







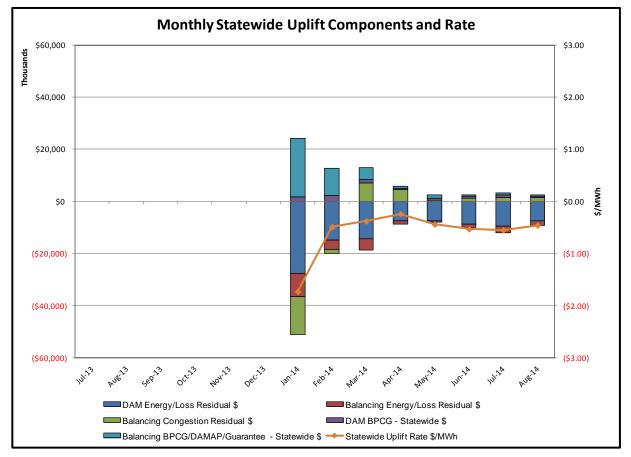
Regional Generation Congestion Coordination

<u>Category</u> NY

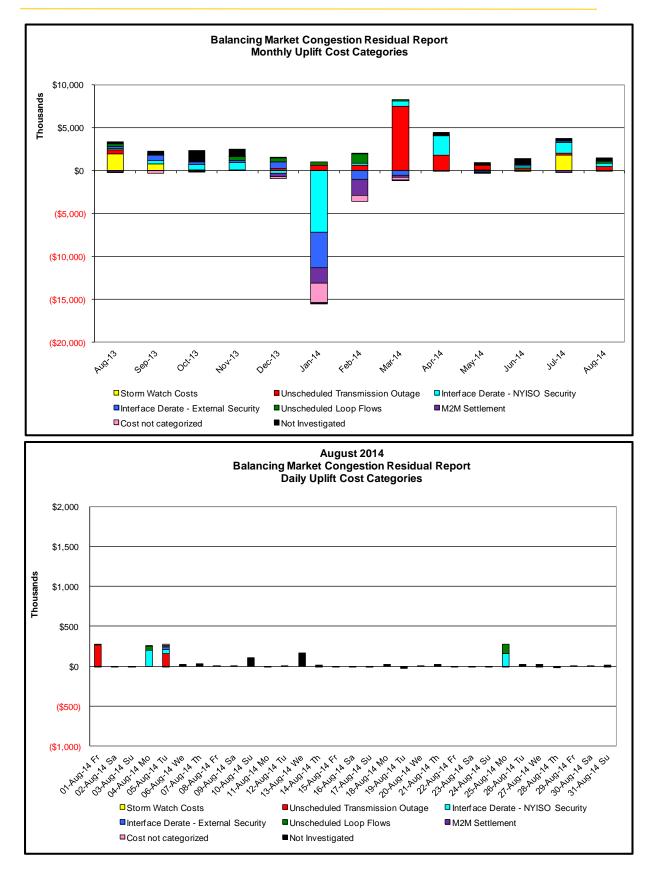
 $\underline{\textit{Description}}$ NYISO savings that result from PJM payments to NYISO when PJM's transmission use (PJM's market flow) is greater than PJM's entitlement of the NY transmission system and NYISO is incurring Western or Central NY congestion. Additionally, NYISO savings may result from the more efficient regional utilization of PJM's generation resources to directly address Western or Central NY transmission congestion.



Market Performance Metrics







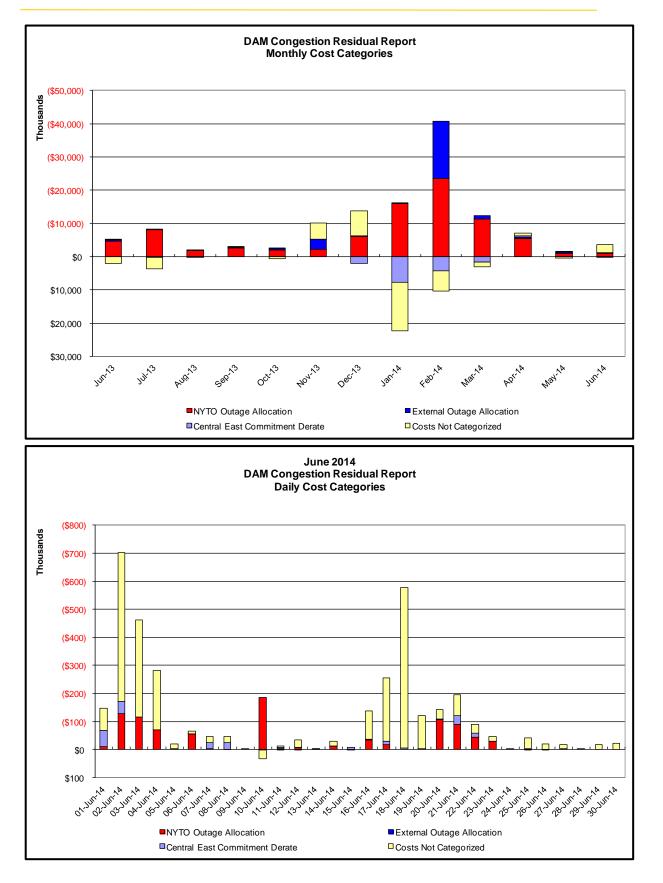


Day's	investigated in August	:1,4,5,25		
Event	Date (yyyymmdd)	Hours	Description	
	8/1/2014	7-11	Forced outage Edic-Fitzpatrick 345kV (#FE1)	
8/1/2014 22		22	IESO_AC DNI Ramp Limit	
	8/4/2014 15-17		Derate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76	
			Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Niagara-Packard 230kV (#61)	
			Forced outage Shore Rd 345_138kV Transformer (#BK1)	
	8/5/2014	14,15	Forced outage Pilgrim-Northport 138kV (#677)	
	8/5/2014	16,17	Derate Leeds-New Scotland 345kV (#93-LN) for I/o New Scotland-Leeds 345kV (#94-LN)	
	8/5/2014	5	IESO_AC DNI Ramp Limit	
	8/5/2014	16,17	HQ_Cedars-NY Scheduling Limit	
	8/5/2014	14	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Leeds-New Scotland 230kV (#93-LN), Packard-Sawyer 230kV	
	8/25/2014	14-16	Derate E179th St-HellGate 138kV (#15053)	
	8/25/2014	15,16	Derate Niagara-Packard 230kV (#61) for I/o TWR:PACKARD 62 & BP76	
	8/25/2014	14-16	Derate Packard-Sawyer 230kV (#78) for I/o Packard-Sawyer 230kV (#77)	
	8/25/2014	15	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230kV (#78), Niagara-Packard 230kV (#61)	
8/25/2014 16 Lake Erie Cl		16	Lake Erie Clockwise Circulation, DAM-RTM exceeds 125MW; Packard-Sawyer 230kV (#78)	

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	
	Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages	
	Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages	
	Interface Derate - External Security	Market-wide	Reduction 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 Clockwise Lake Erie Loop Flows greater than 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 				



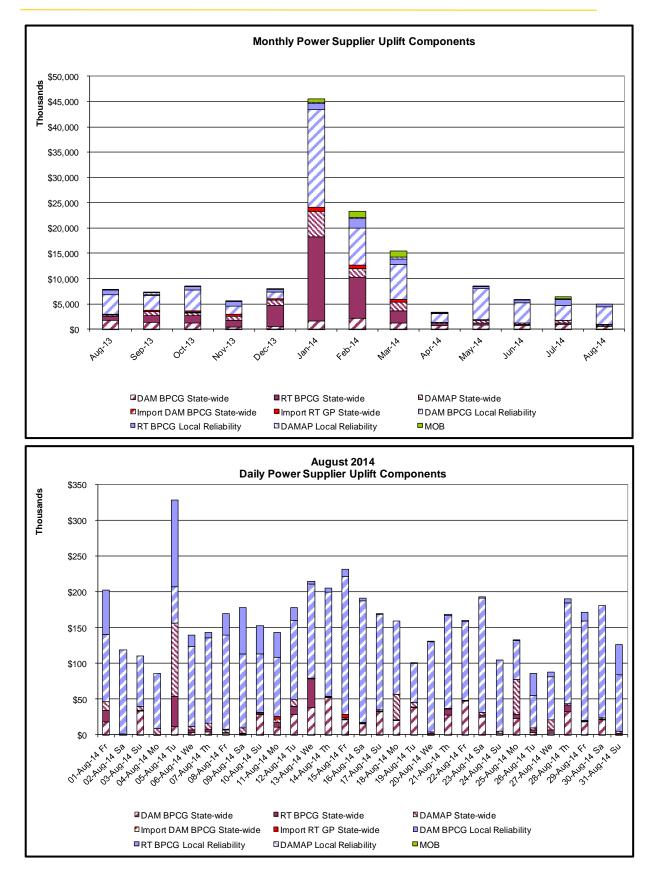




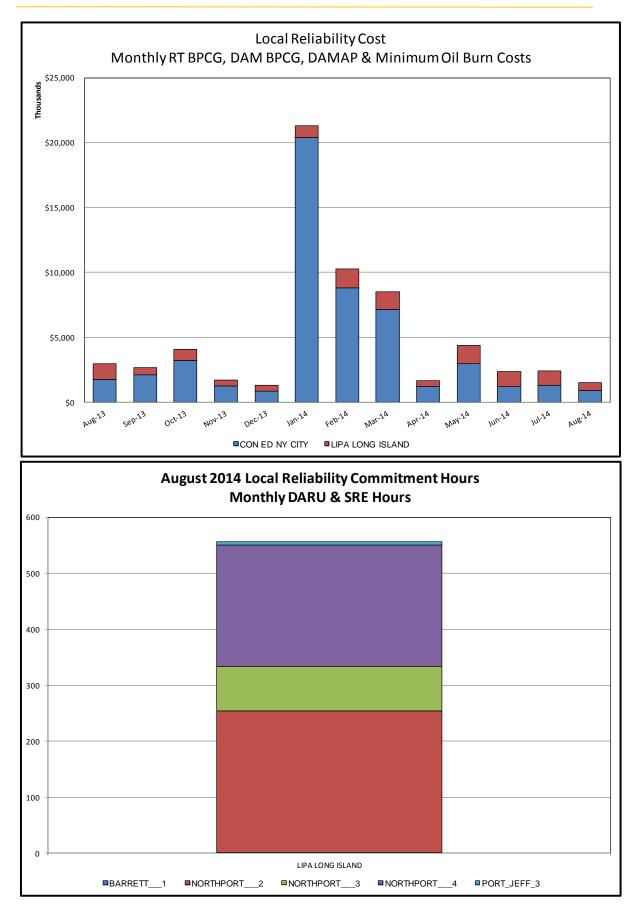
Day-Ahead Market Congestion Residual Categories

<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.	<u>Event Examples</u> DAM scheduled outage for equipment modeled in- service for the TCC Auction.
External Outage Allocation	All TO by Monthly Allocation Factor	Direct allocation to transmission equipment status change caused by change in status of external equipment.	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.	

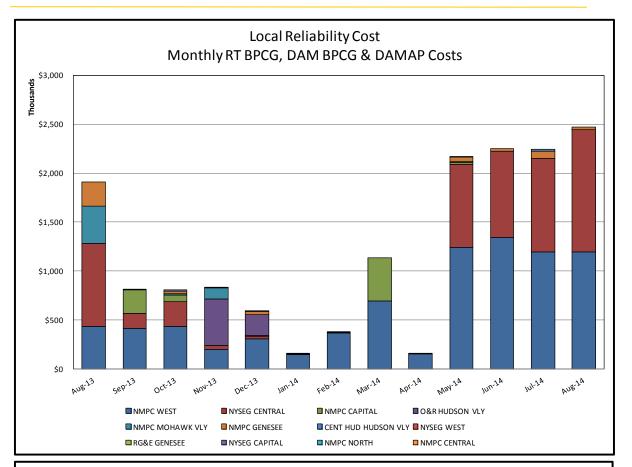




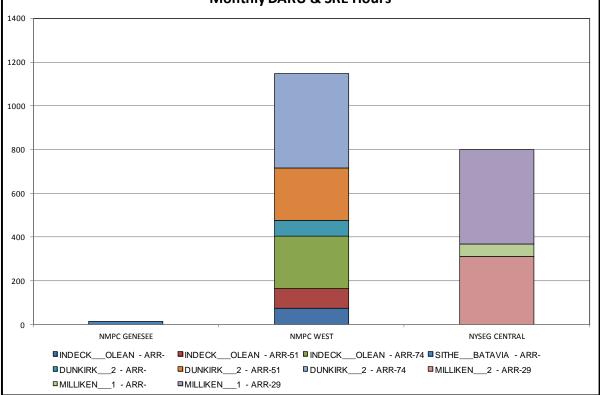




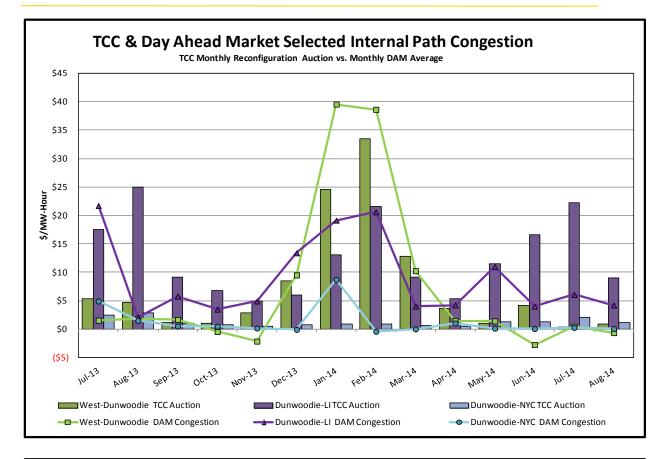


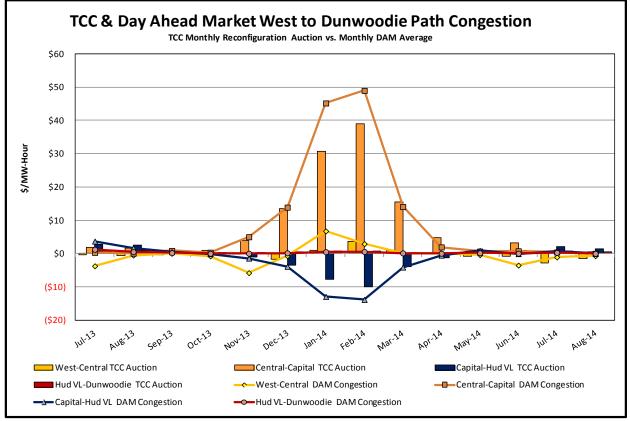


August 2014 Local Reliability Commitment Hours Monthly DARU & SRE Hours

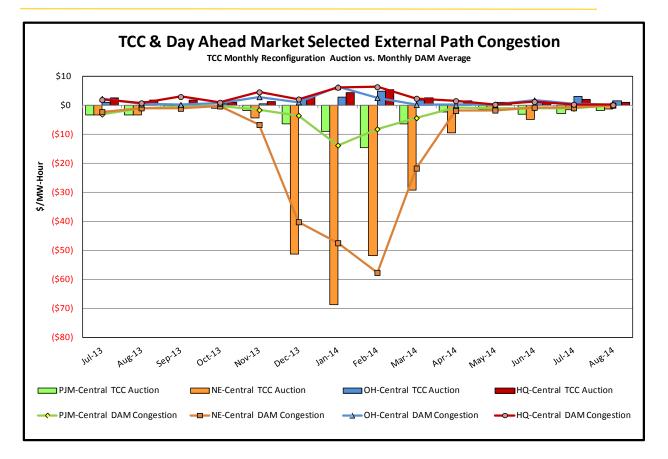














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Sep-13

Oct-13

ROS - Gens Sold

NYC - Gen Unsold

LI - Gen Sold

Nov-13 Dec-13

ROS - Externals

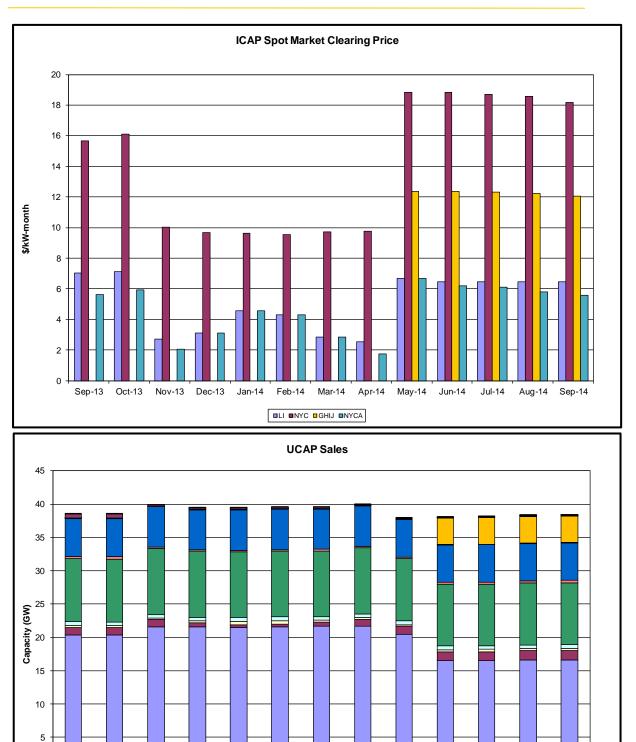
LI - SCR Sold

Jan-14 Feb-14

■NYC - SCR Unsold ■ROS - Gen Unsold ■ROS - SCR Unsold ■GHI - Gen Unsold

ROS - Exports

GHI - Gen Sold



Mar-14

ROS - SCR Sold

GHI - SCR Sold

Apr-14

May-14

NYC - Gen Sold

LI - Gen Unsold

Jul-14

NYC - SCR Sold

LI - SCR Unsold

GHI - SCR Unsold

Jun-14

Aug-14 Sep-14