

# ***Operations Performance Metrics Monthly Report***



## ***November 2014 Report***

### **Operations & Reliability Department New York Independent System Operator**

Prepared by NYISO Operations Analysis and Services, based on settlements initial settlement data collected on or before December 8, 2014.

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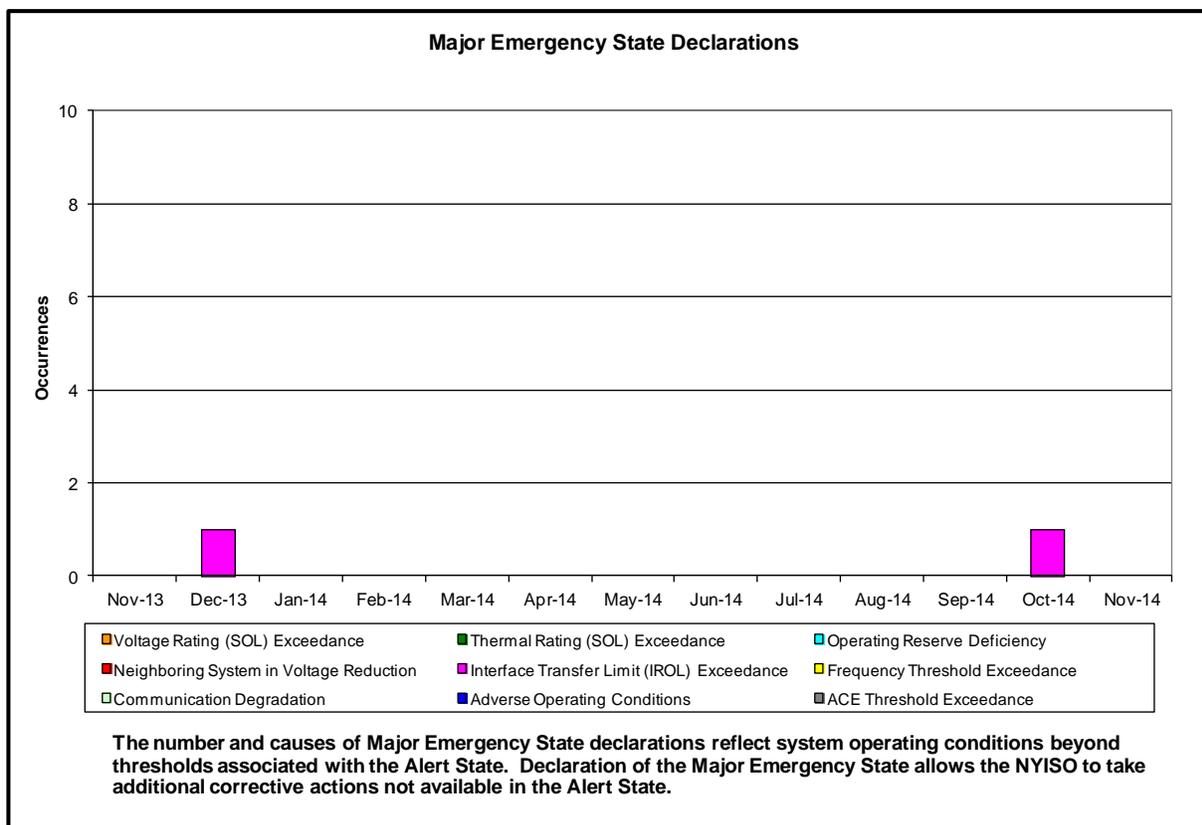
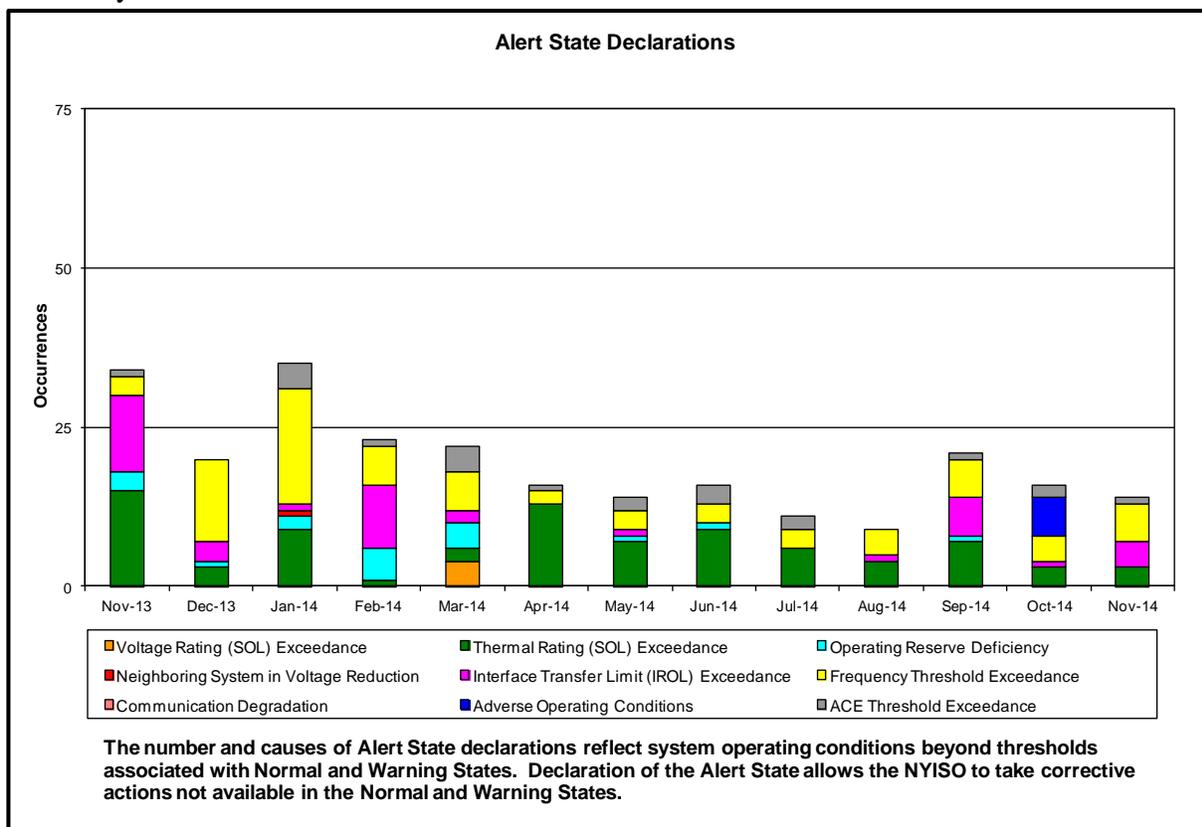
## November 2014 Operations Performance Highlights

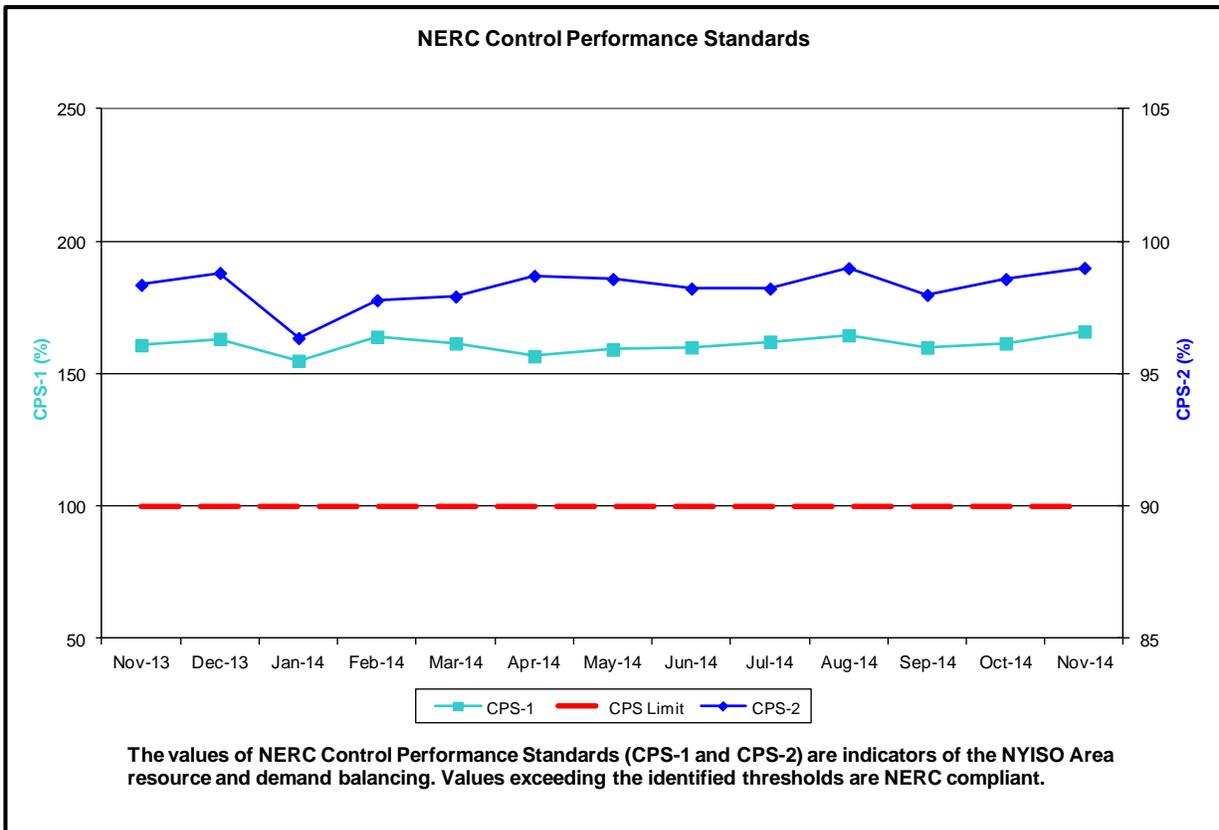
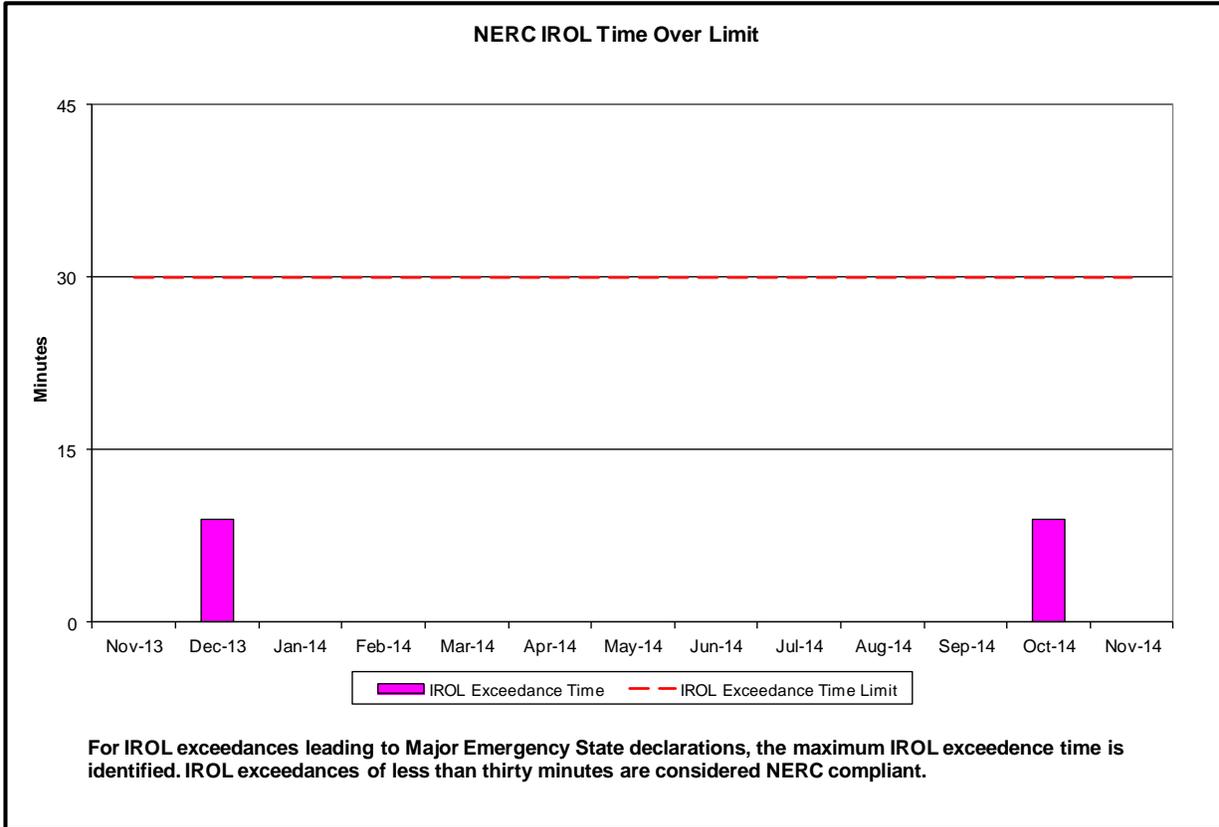
- Peak load of 22,466 MW occurred on 11/18/2014 HB 17
- All-time winter capability period peak load of 25,738 MW occurred on 1/7/2014 HB 18
- 0 hours of Thunder Storm Alerts were declared
- 0 hours of NERC TLR level 3 curtailment
- Broader Regional Market Coordination monthly value was \$0.89M
- Broader Regional Market Coordination year-to-date value was \$8.47M
- Statewide uplift cost monthly average was \$(0.64)/MWh
- The following table identifies the Monthly ICAP spot market prices by locality.

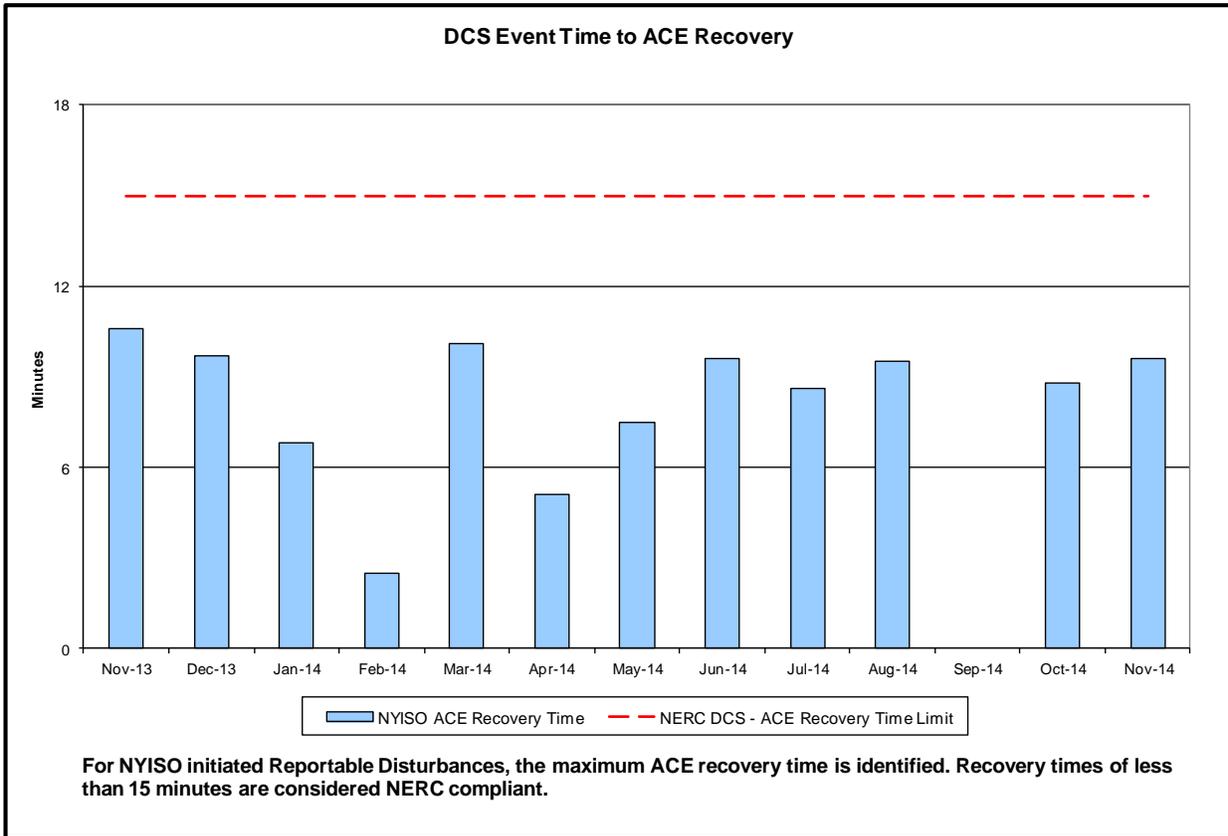
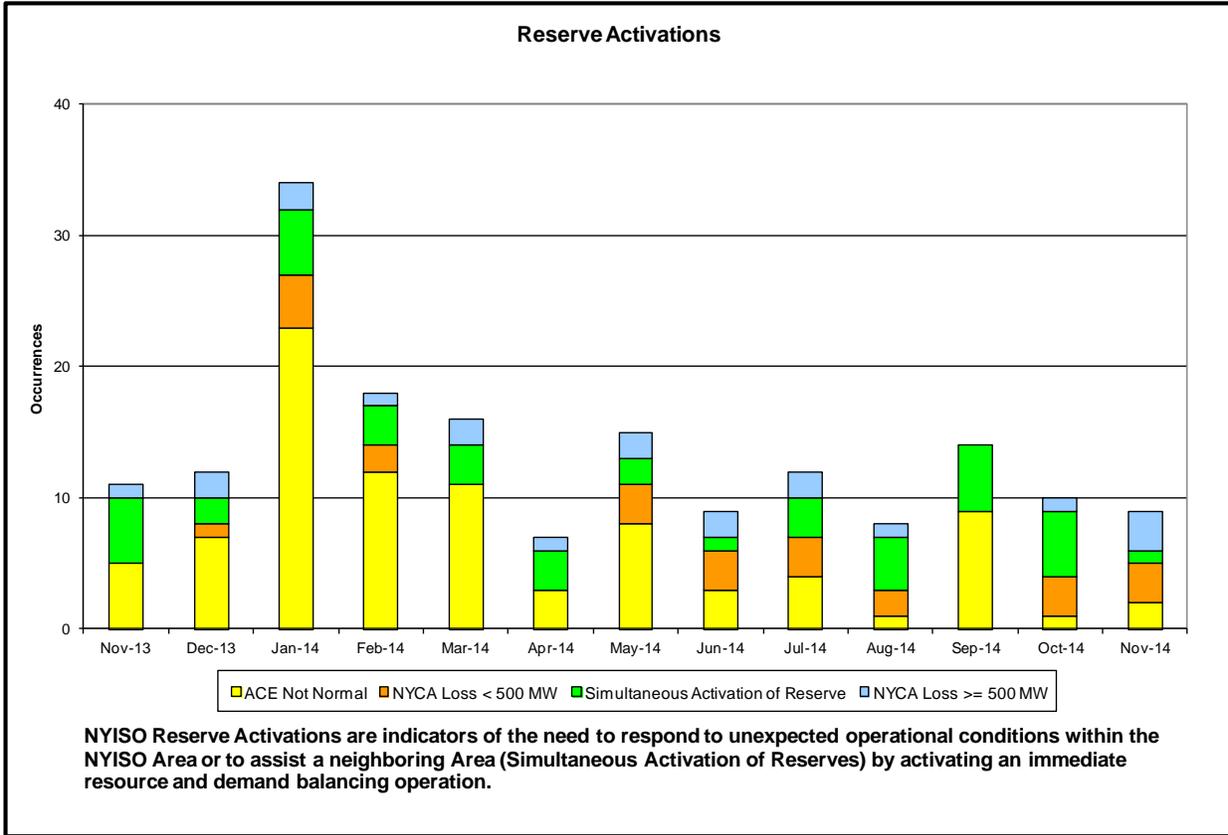
Spot Auction Price Results	NYCA	Lower Hudson Valley Zones	New York City Zone	Long Island Zone
December 2014 Spot Price	\$3.50	\$4.76	\$8.87	\$3.50
Change from Prior Month	\$2.07	(\$1.00)	(\$0.09)	\$0.51

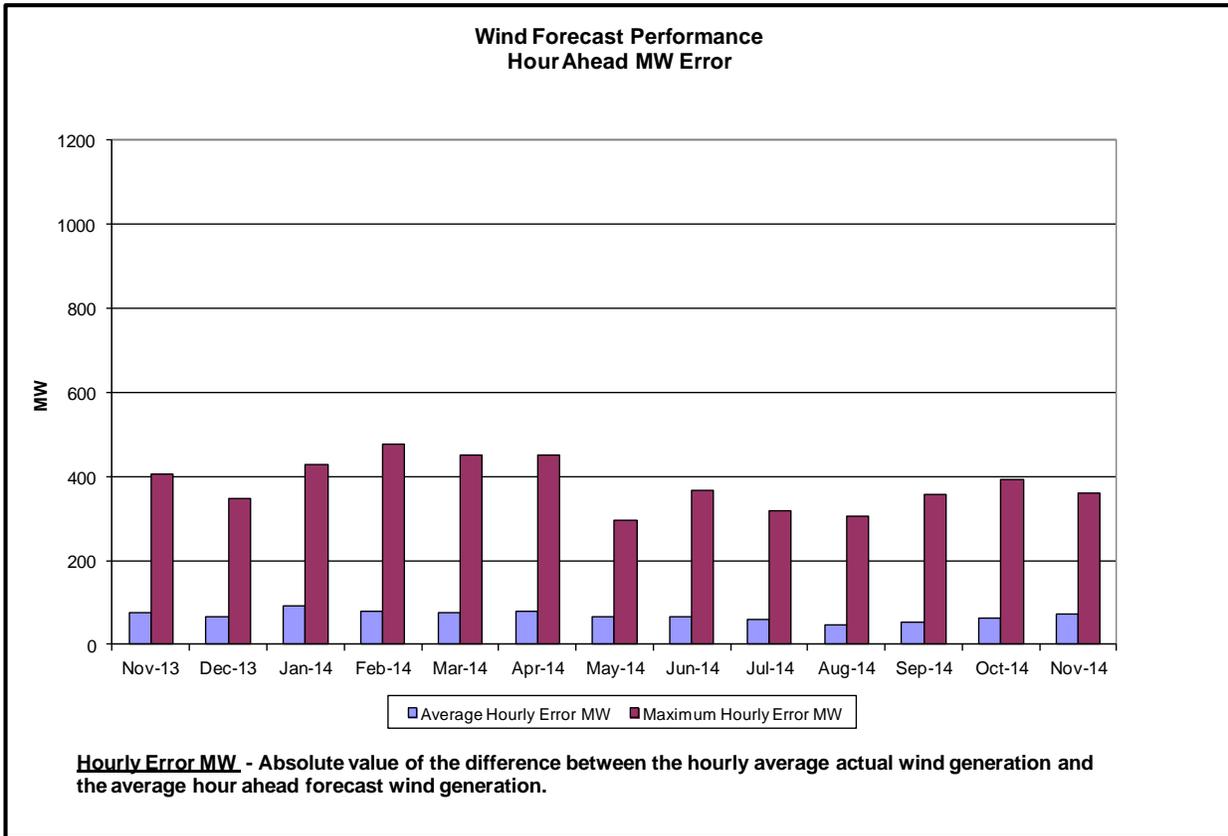
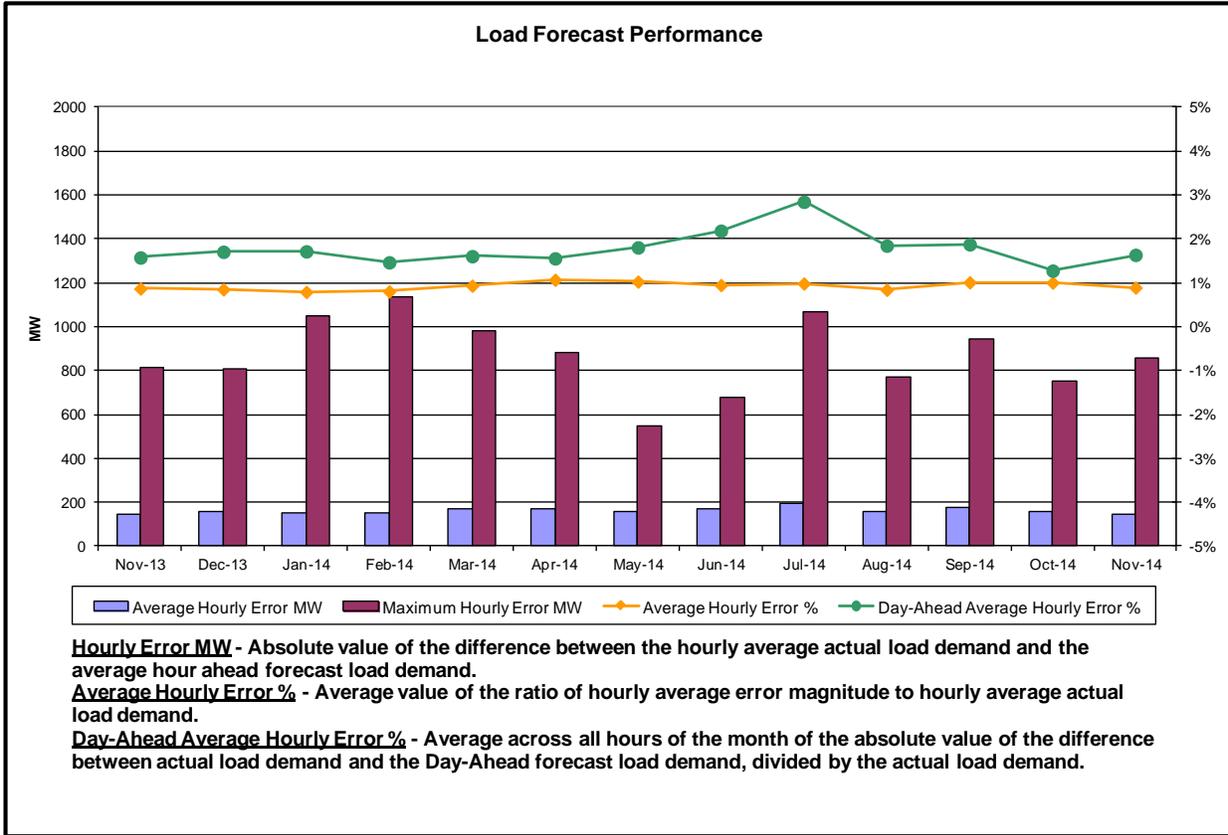
- NYCA - Price increases by \$2.07 due to an approximate 160 MW increase in UCAP and a net decrease of approximately 1230 MW ICAP at the HQ Interface.
- LHV - Price decreases by \$1.00 due to an increase of approximately 150 MWs of UCAP.
- LI - Price increases by \$0.51 due to LI clearing at NYCA price.

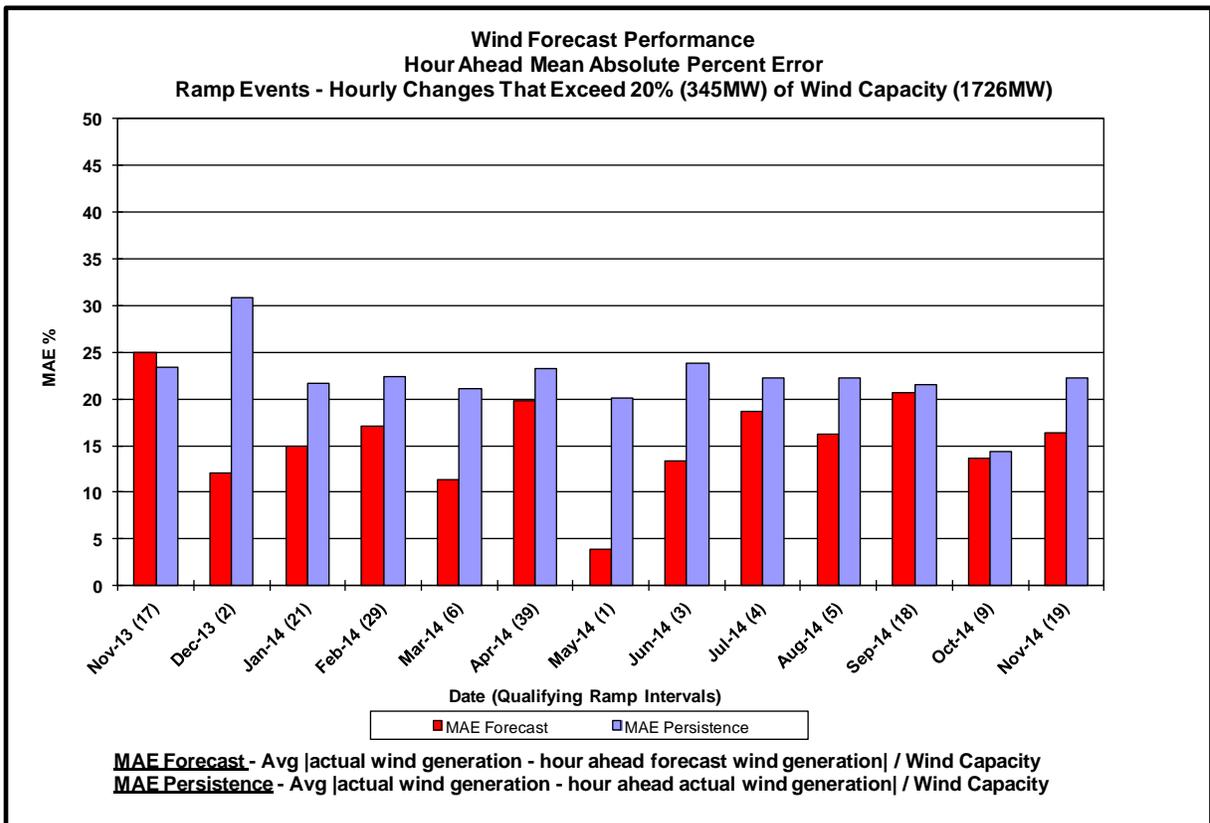
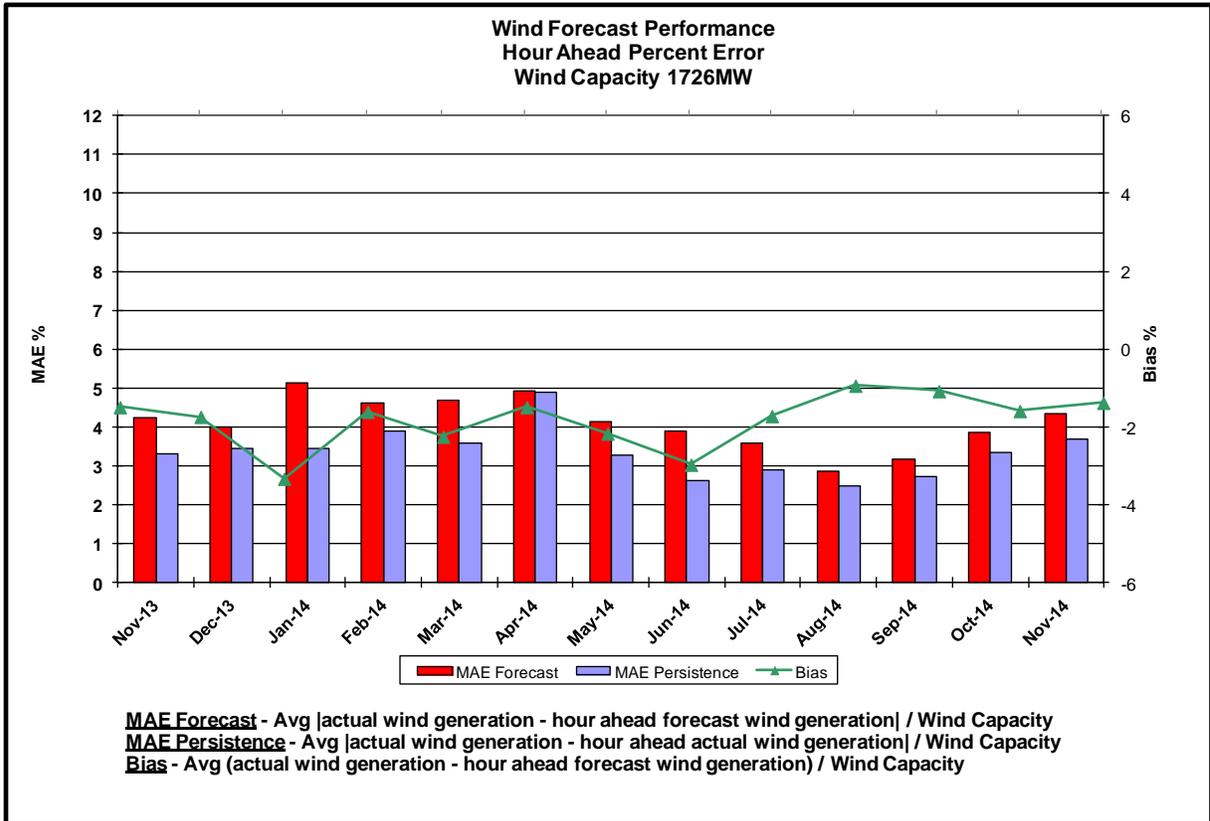
## Reliability Performance Metrics

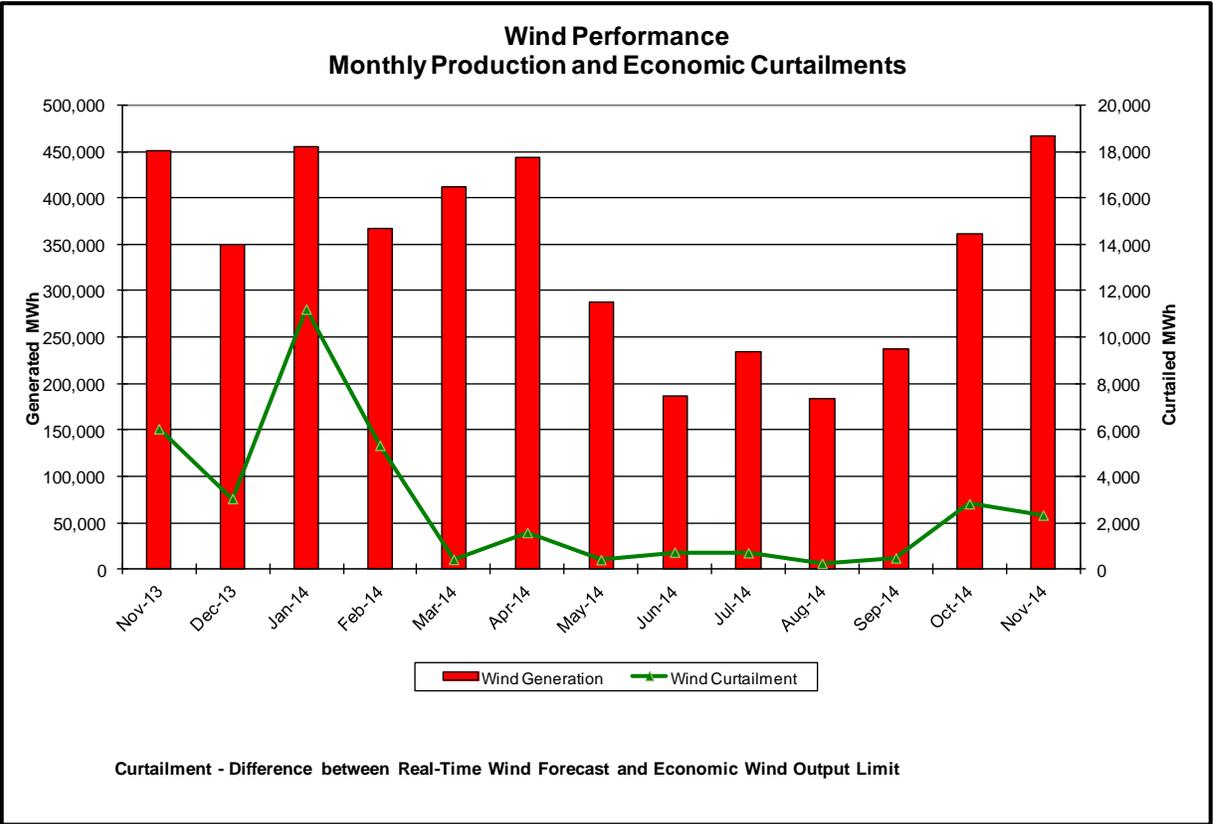
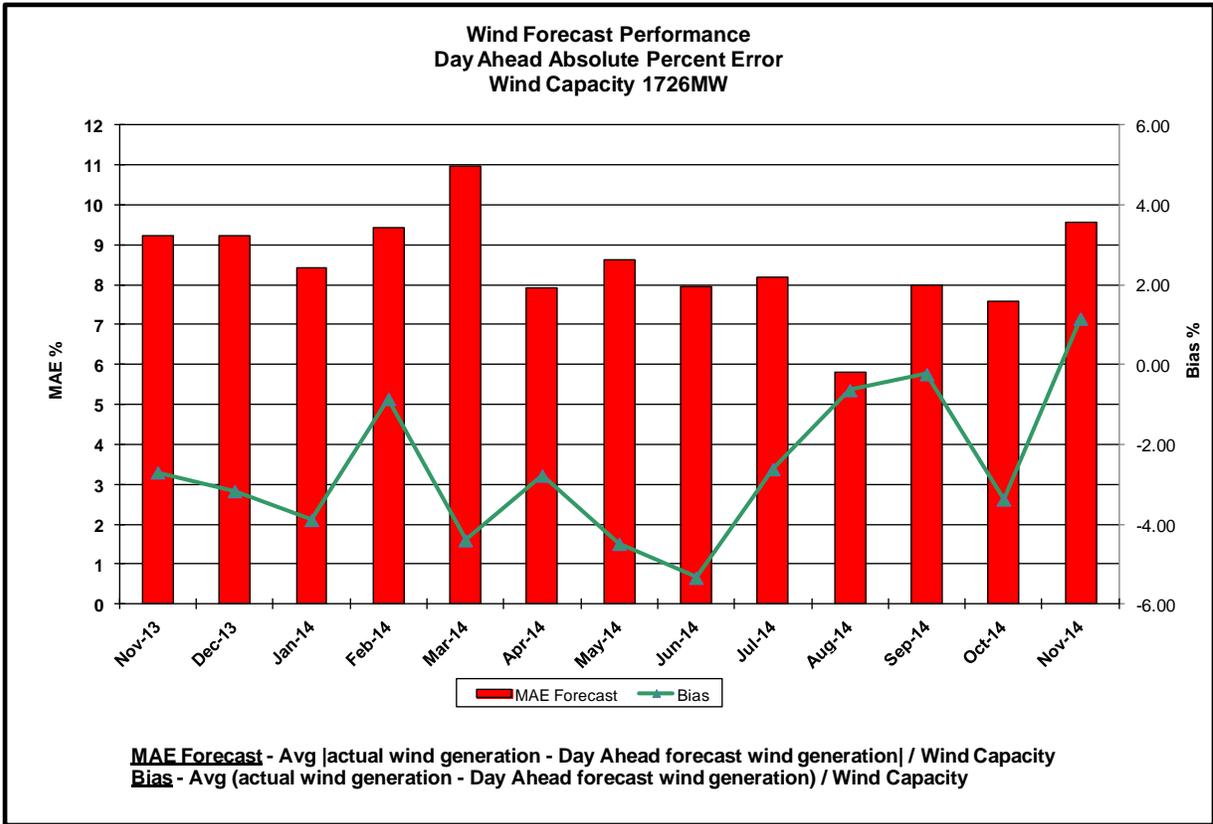


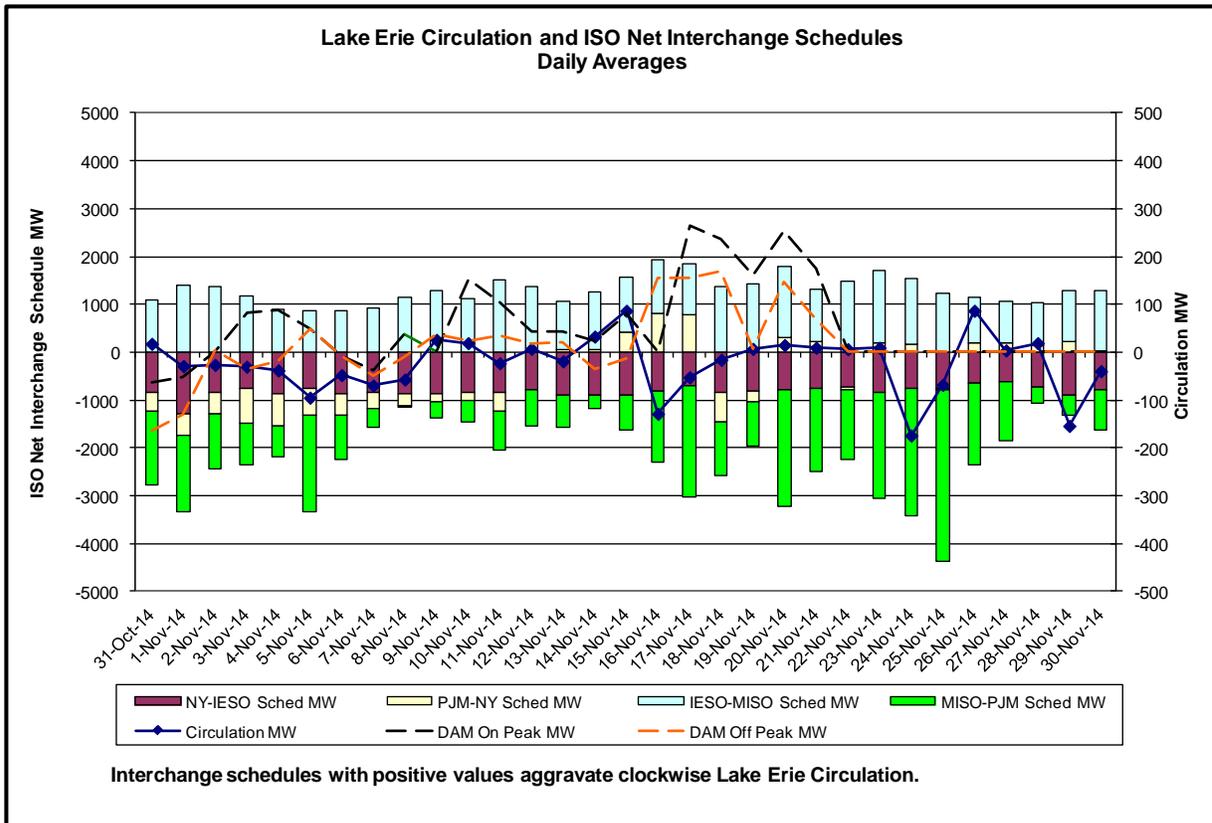
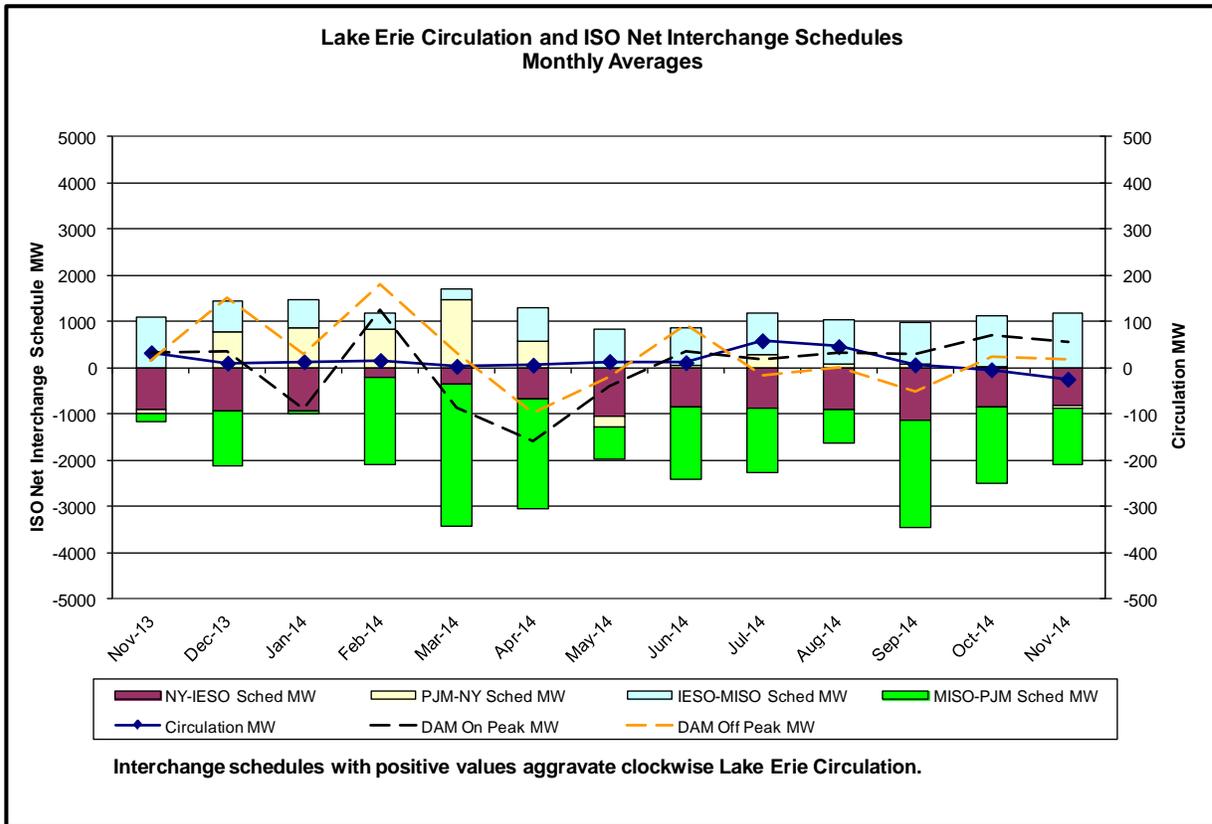




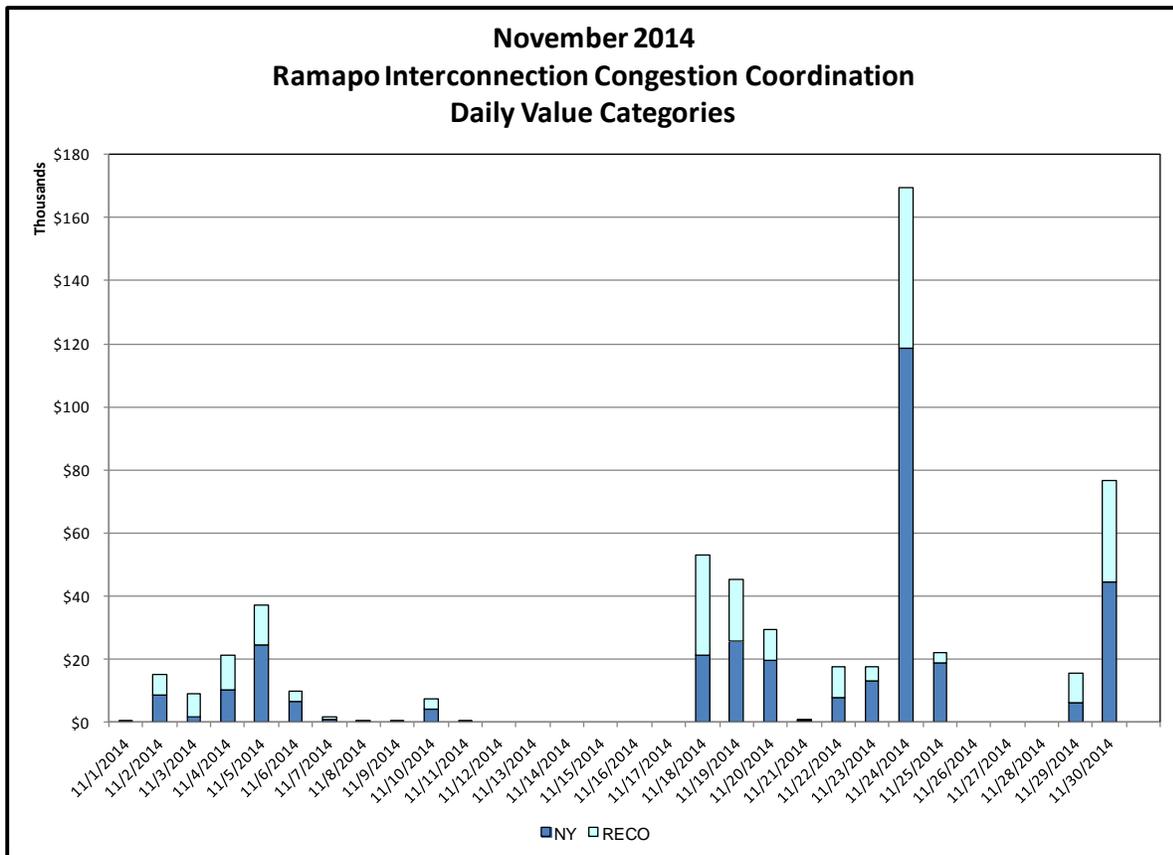
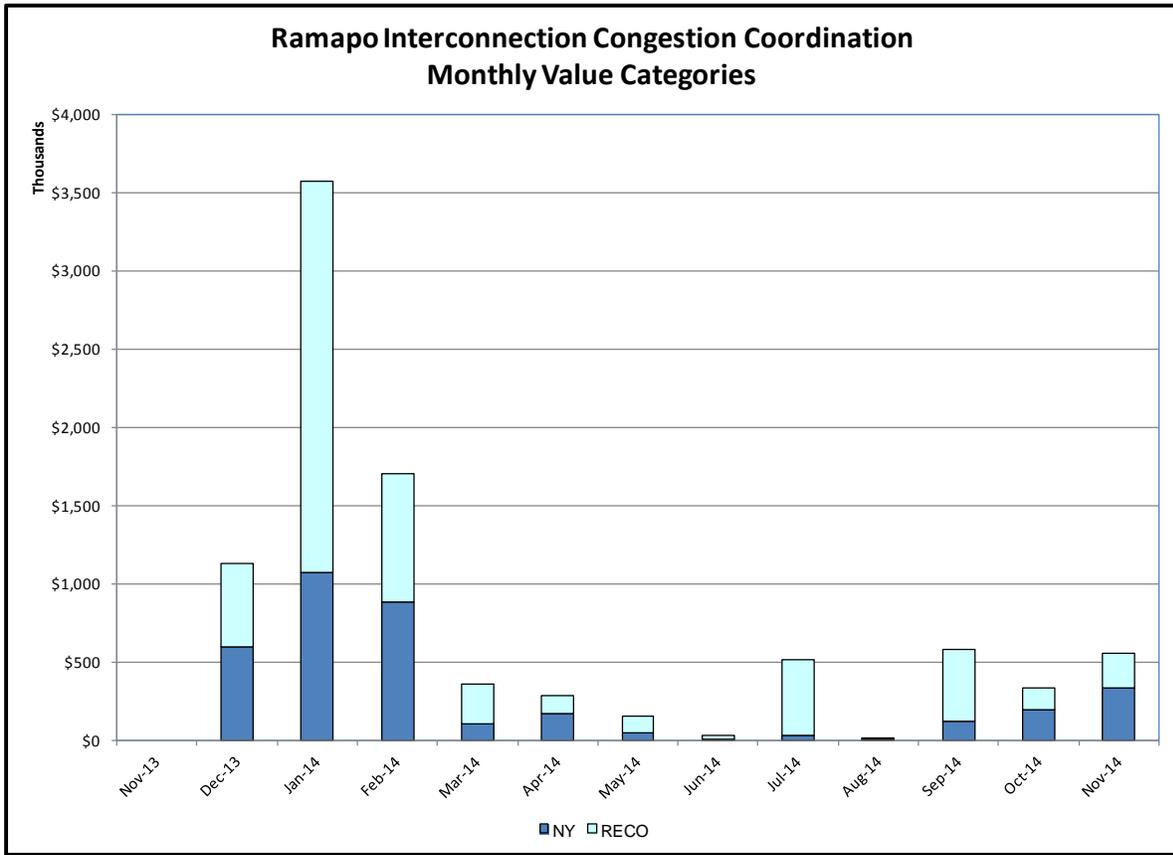






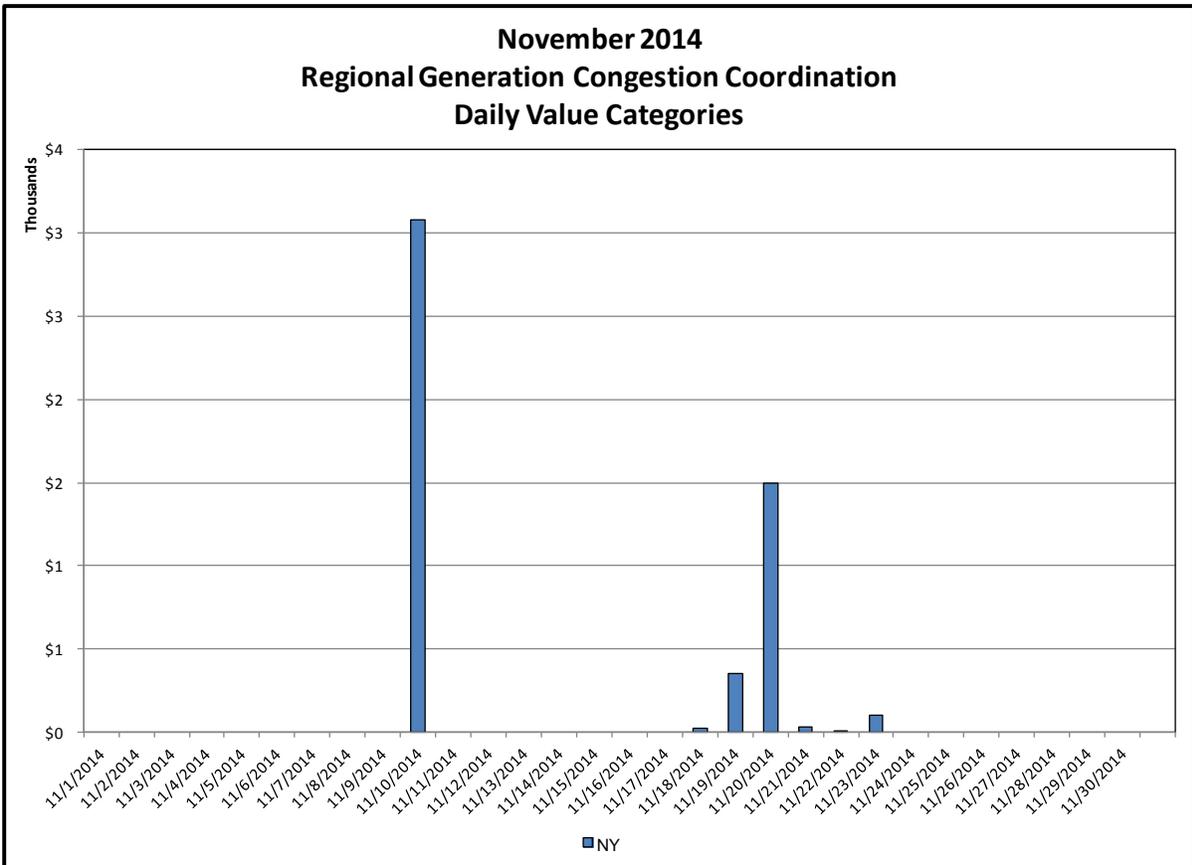
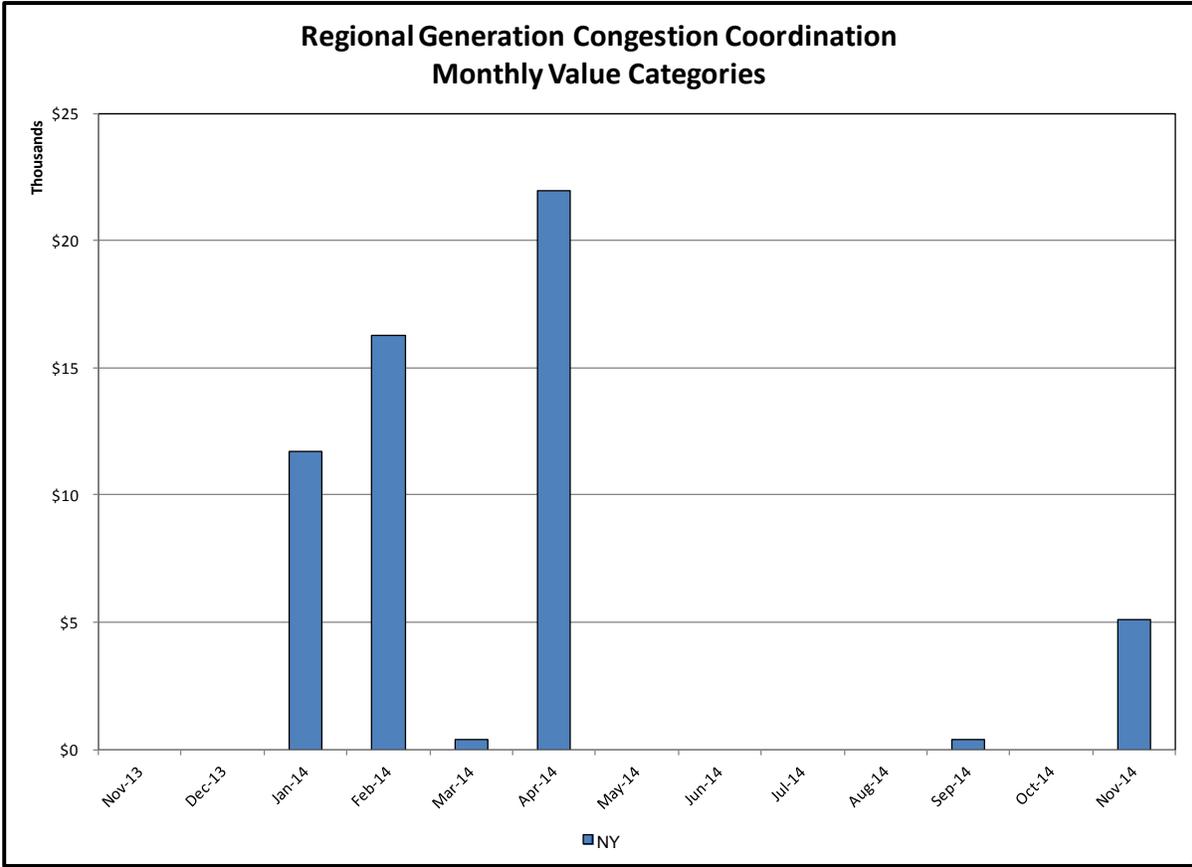


## Broader Regional Market Performance Metrics



**Ramapo Interconnection Congestion Coordination**

<u>Category</u>	<u>Description</u>
NY	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.
RECO	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.



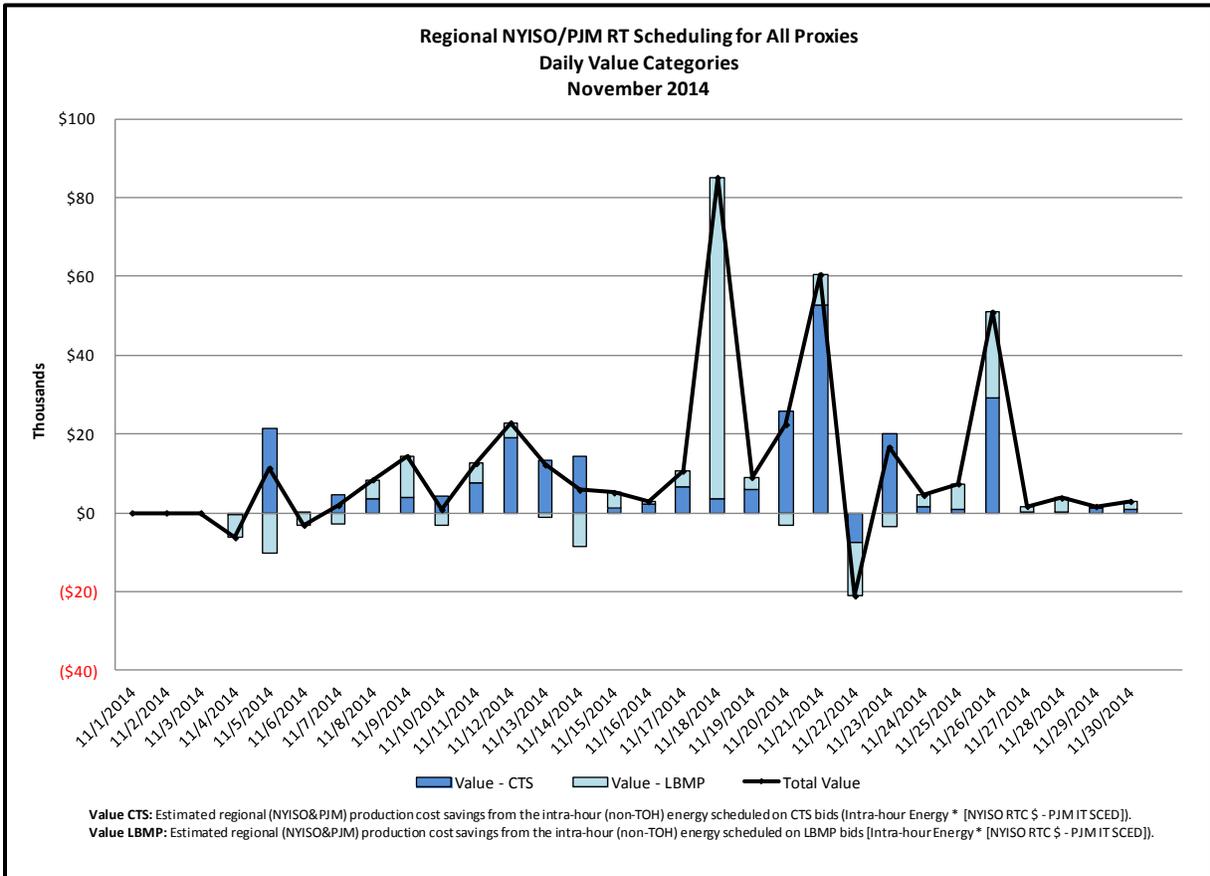
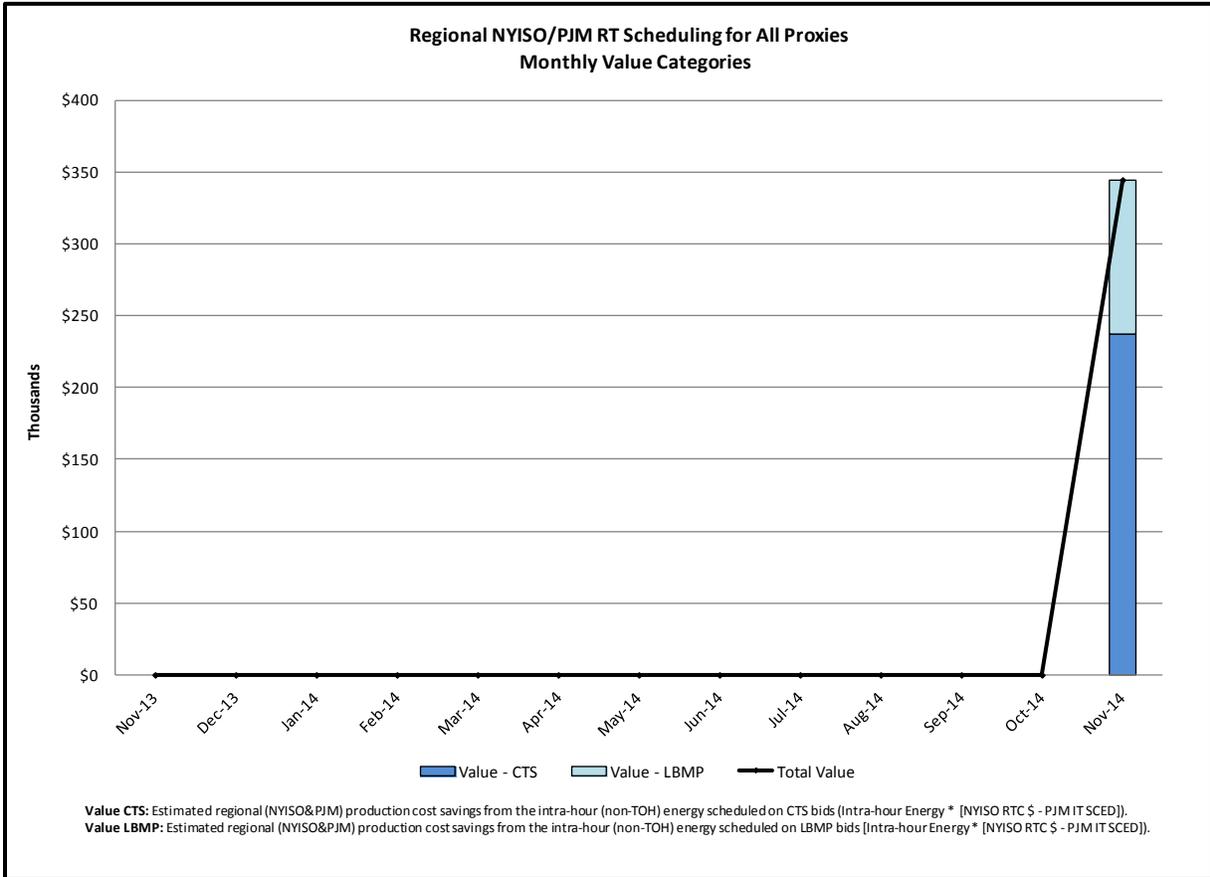
### Regional Generation Congestion Coordination

Category

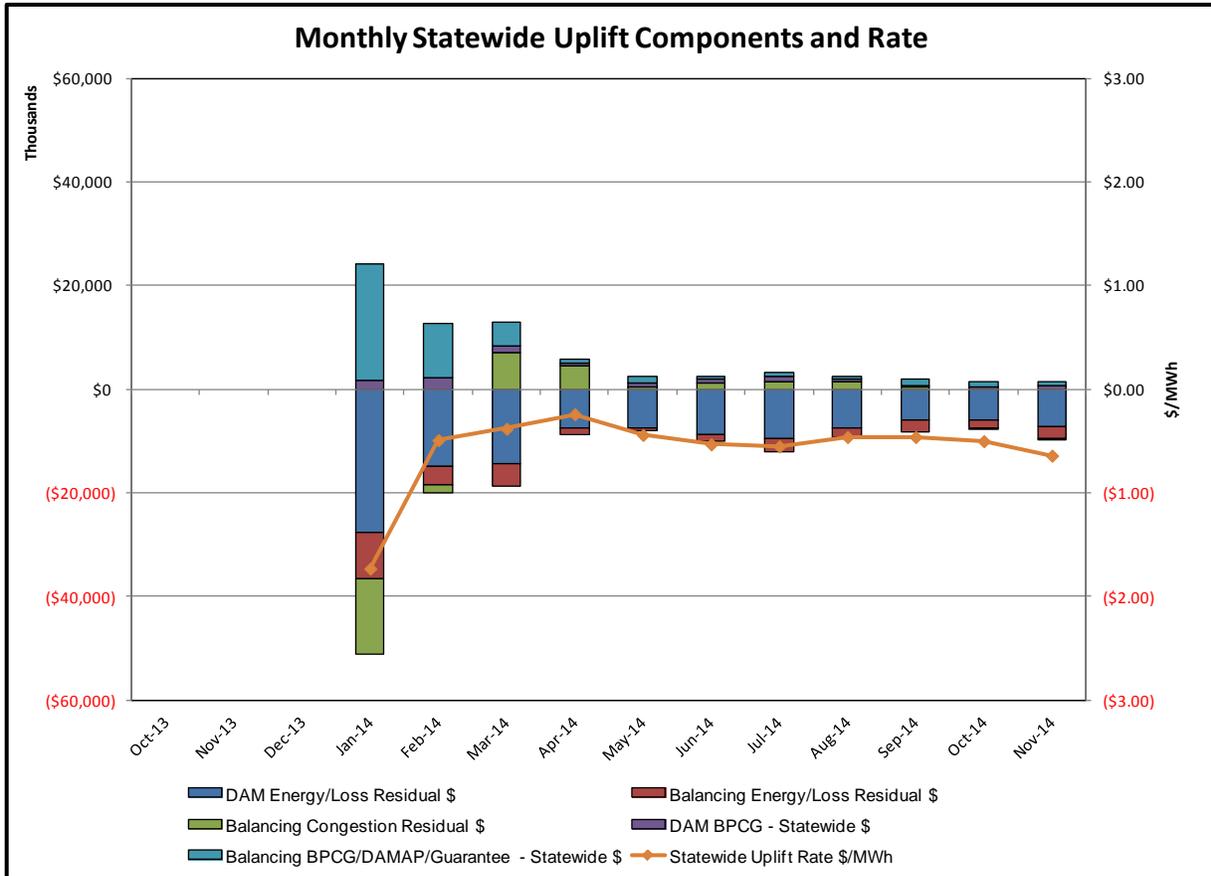
NY

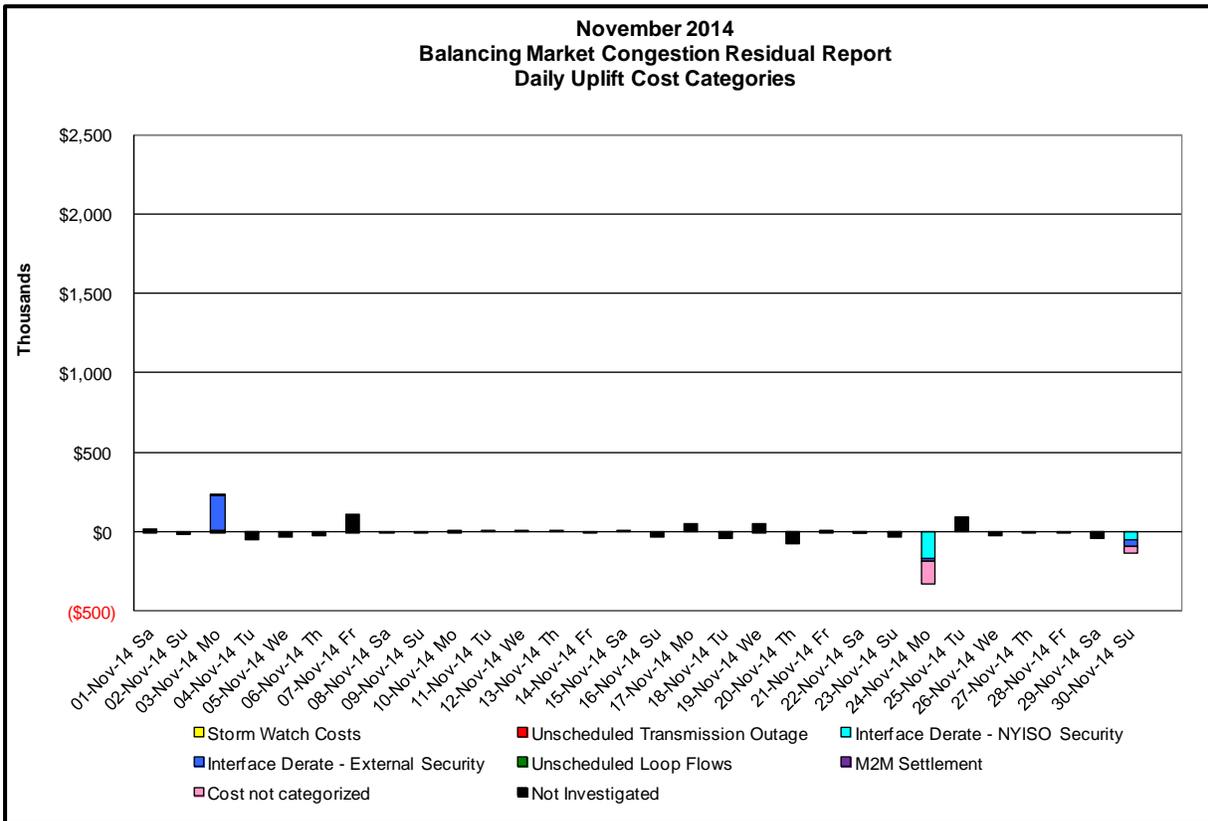
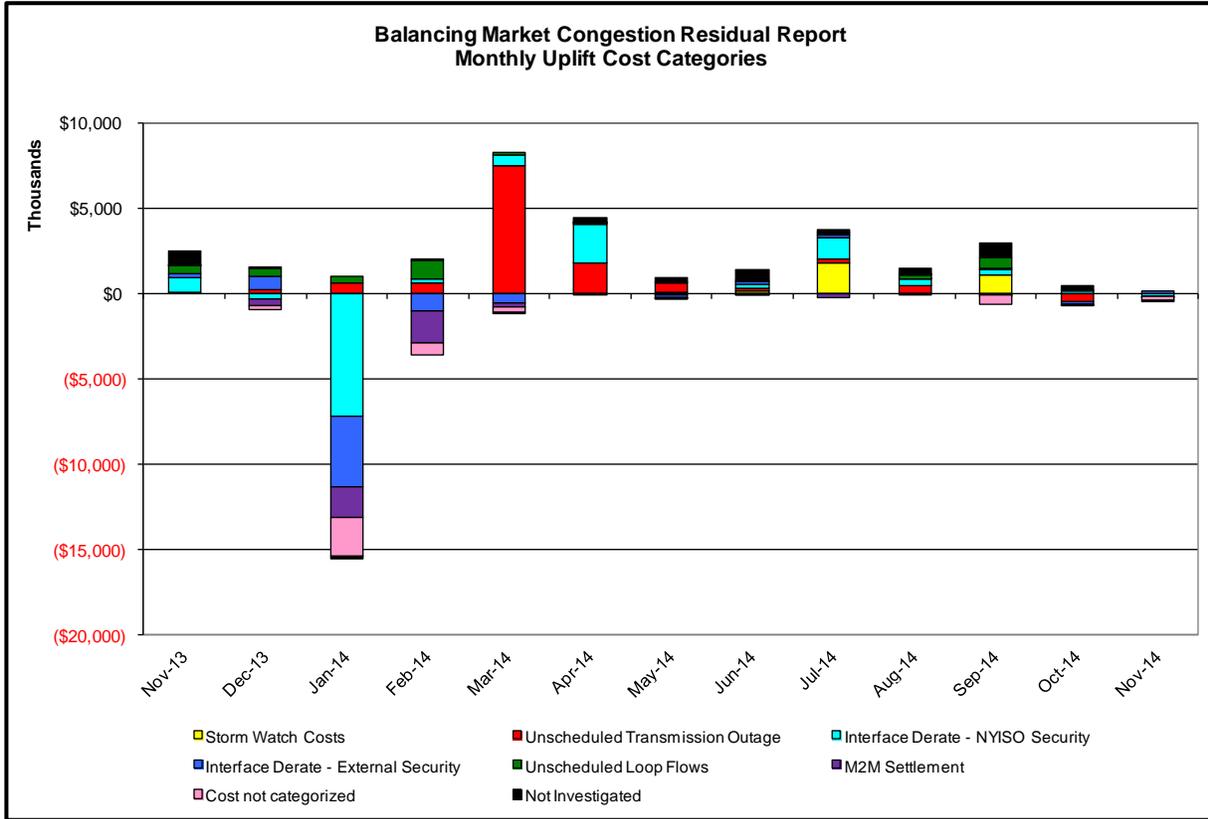
Description

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 November: 3, 24, 30

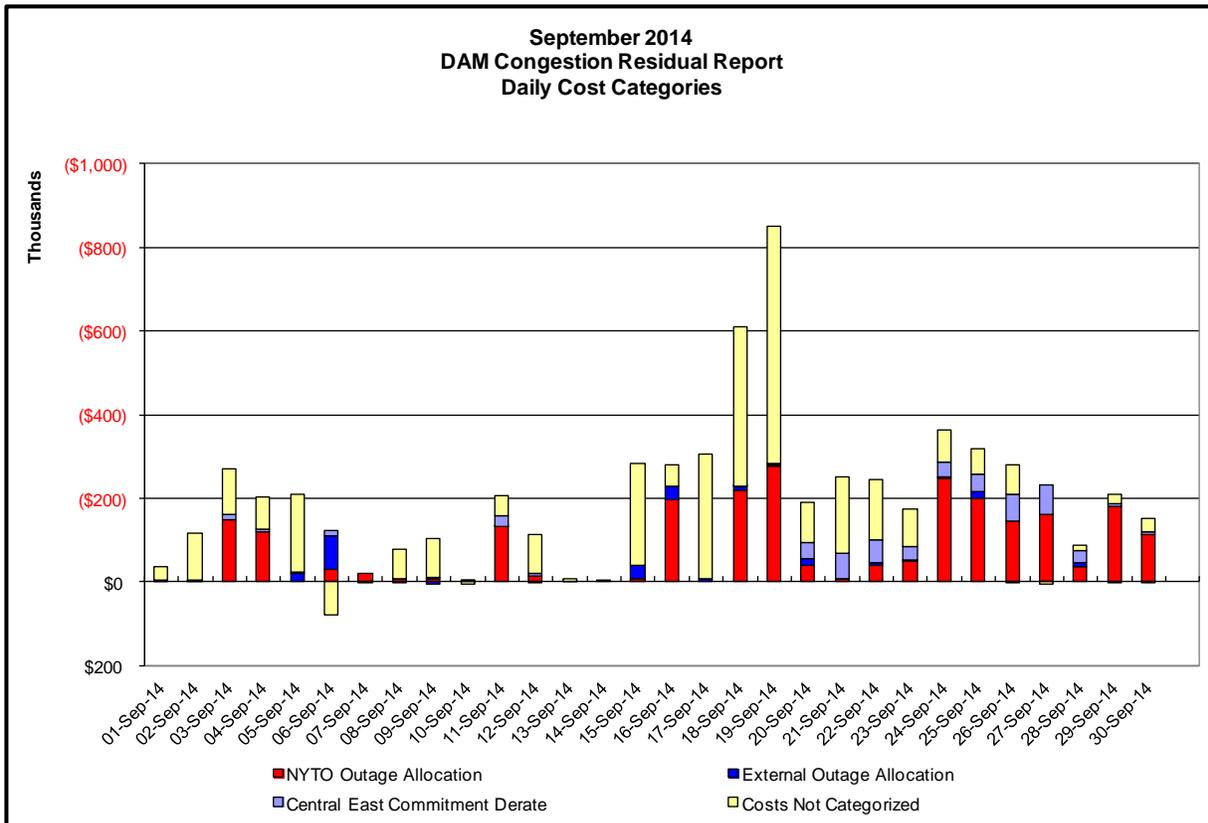
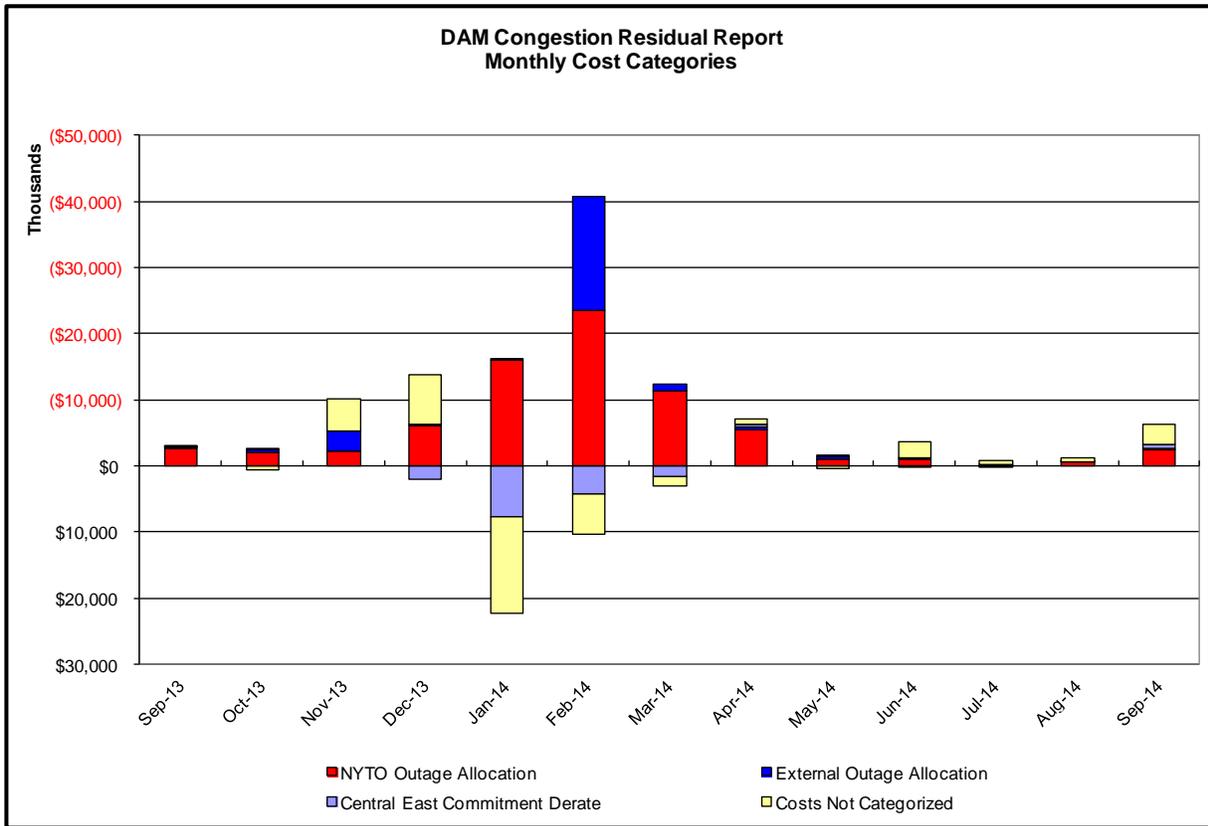
Event	Date (yyyymmdd)	Hours	Description
	11/3/2014	12, 15	Derate Dunwoodie-Shore Rd 345kV (#Y50) for I/o Neptune HVDC Tie Line
	11/3/2014	9-10, 16, 17	HQ_CEDARS-NY Scheduling Limit
	11/3/2014	7-10, 12, 15-23	NE_AC-NY Scheduling Limit
	11/24/2014	0, 3, 4, 13, 14, 18, 23	Uprate Central East
	11/24/2014	0, 2, 19, 23	Uprate Dunwoodie-Shore Rd 345kV (#Y50)
	11/24/2014	10, 18, 19	Uprate Gowanus 138kV PAR (#R2) for SCB:GOWANUS(16):42&26
	11/24/2014	0	NE_AC-NY Scheduling Limit
	11/30/2014	0-7, 20-23	Uprate Central East
	11/30/2014	10-13, 15	NE_AC-NY Scheduling Limit

### Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
Storm Watch	Zone J	Thunderstorm Alert (TSA)	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	

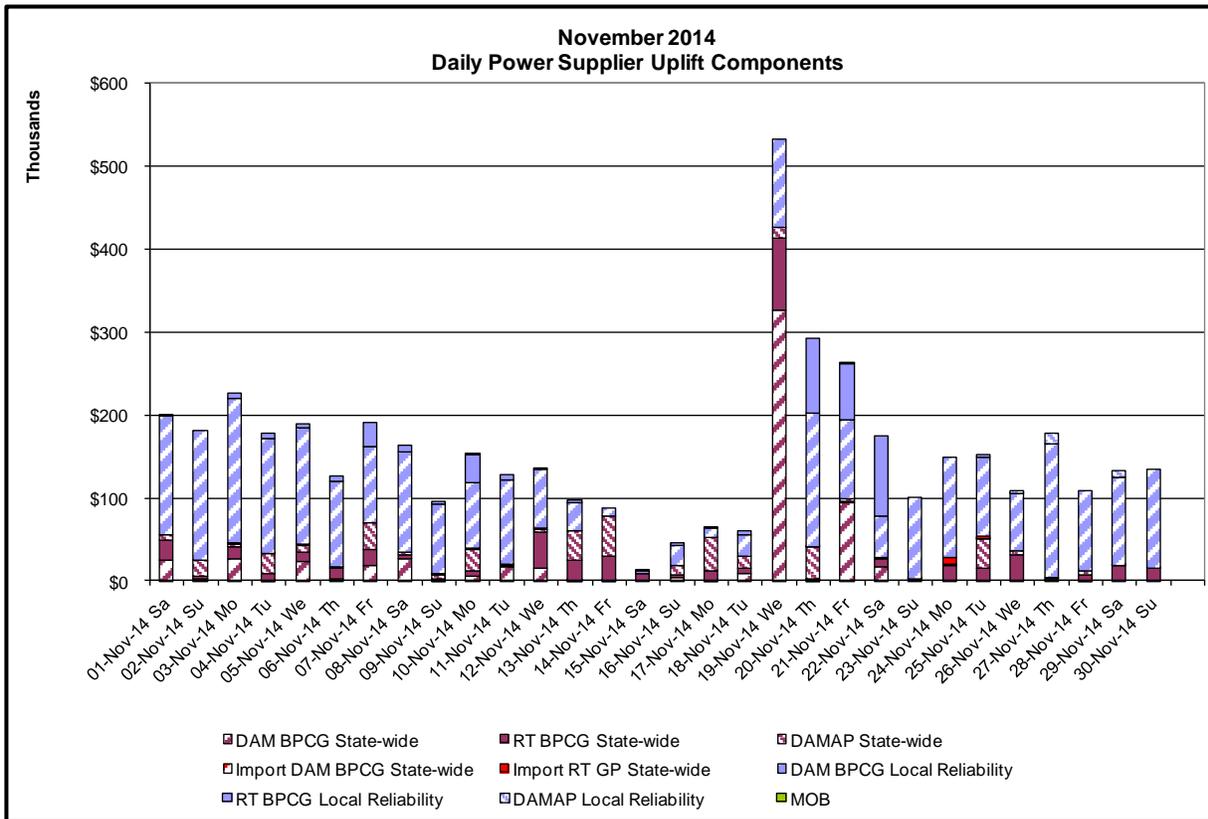
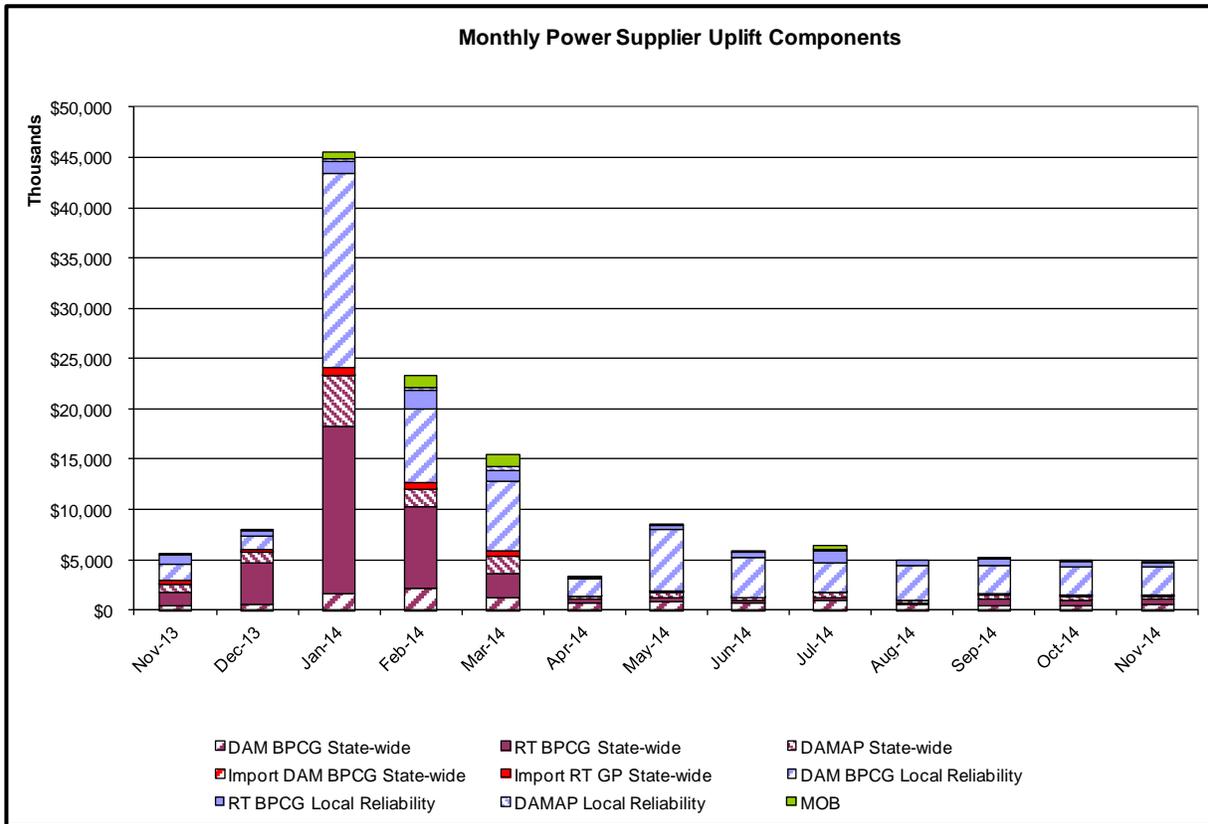
#### Monthly Balancing Market Congestion Report Assumptions/Notes

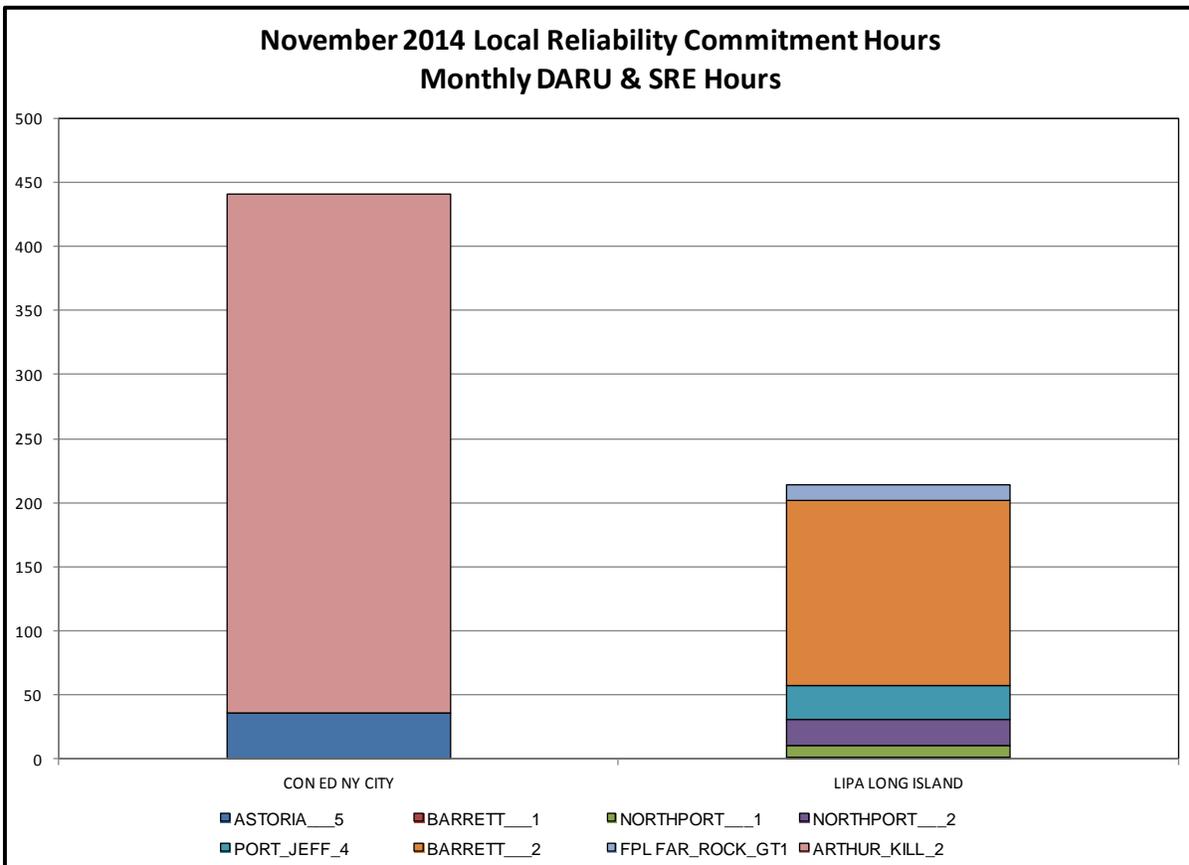
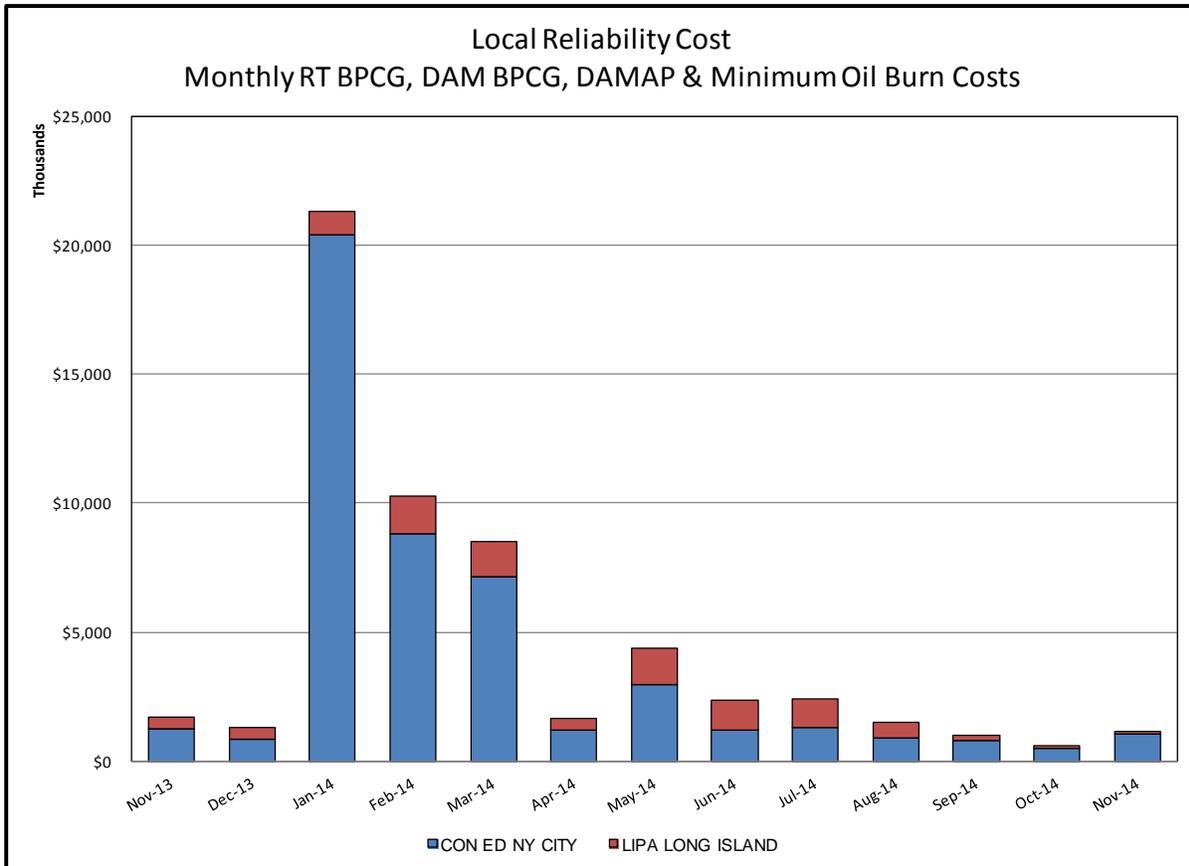
- 1) Storm Watch Costs are identified as daily total uplift costs
- 2) Days with a value of BMCR less M2M Settlement of \$100K/HR, shortfall of \$200K/Day or more, or surplus of \$100K/Day or more are investigated.
- 3) Uplift costs associated with multiple event types are apportioned equally by hour

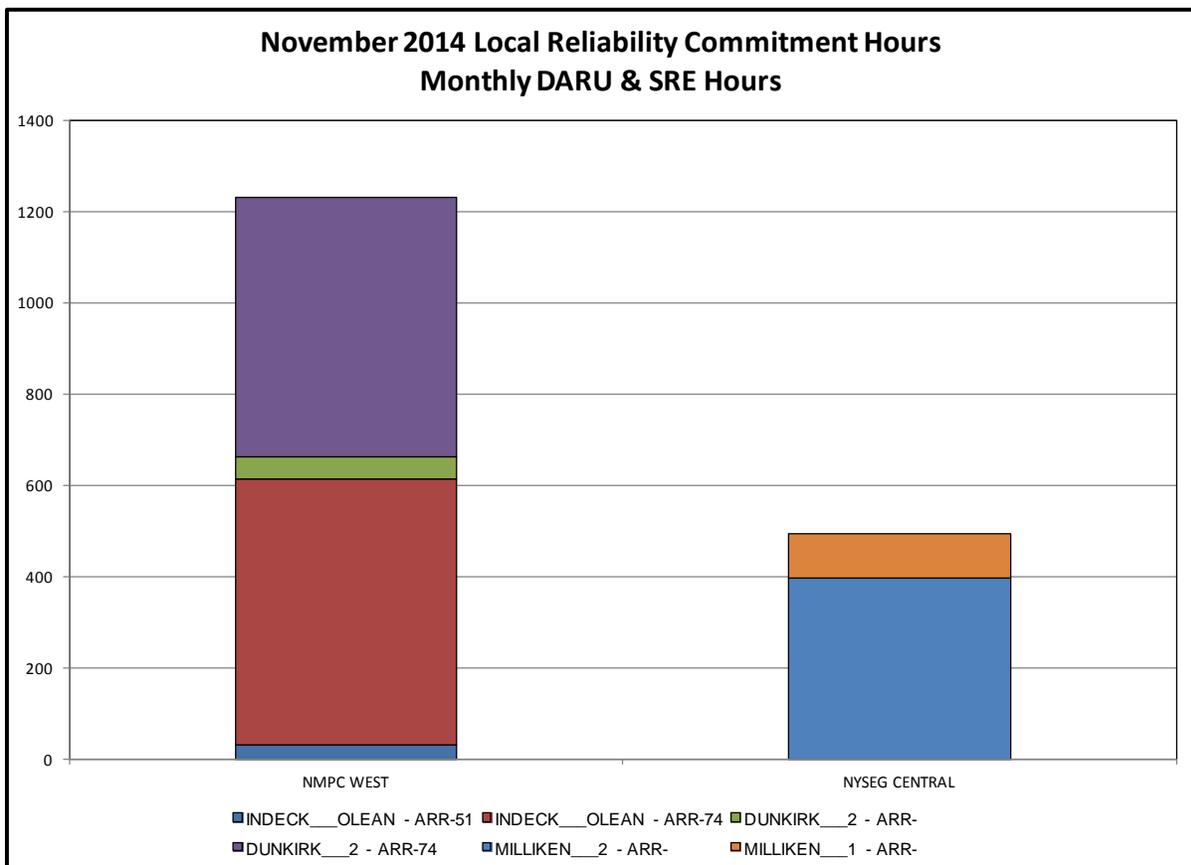
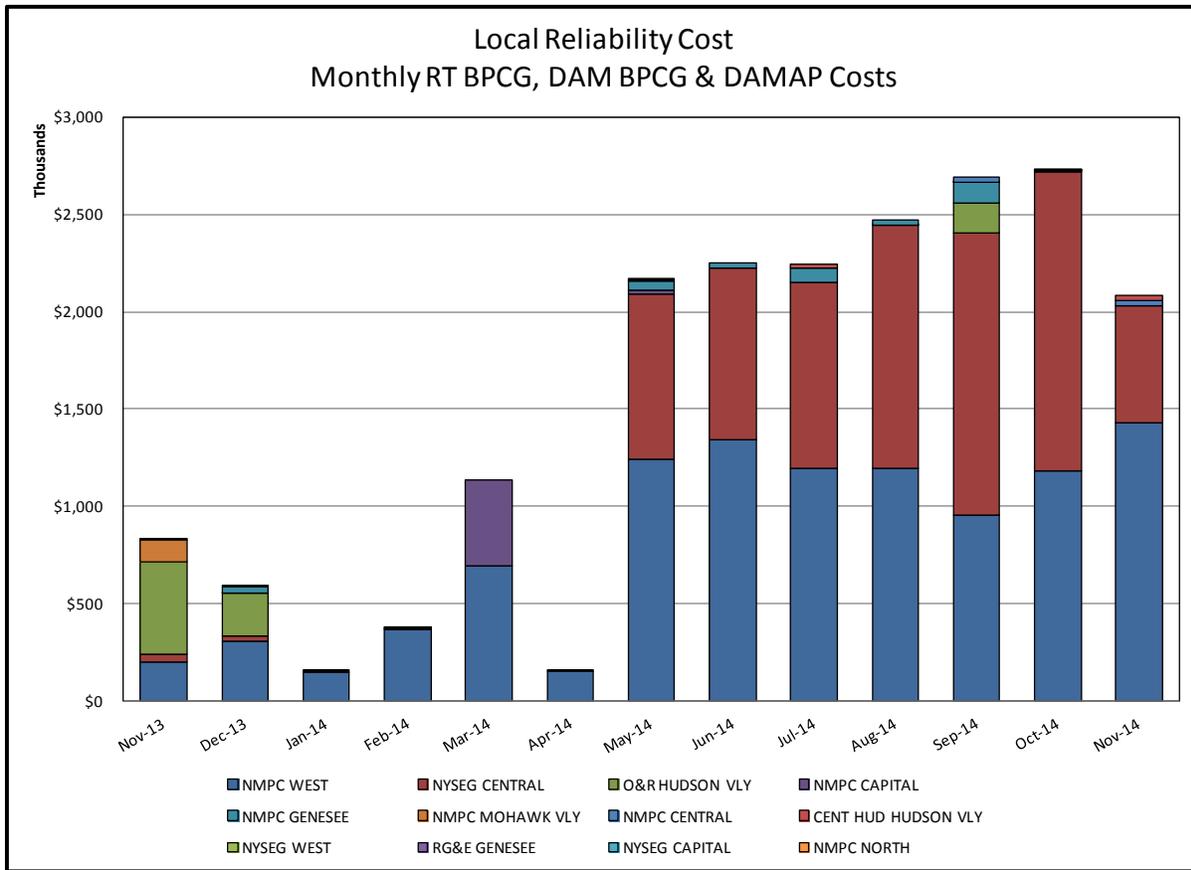


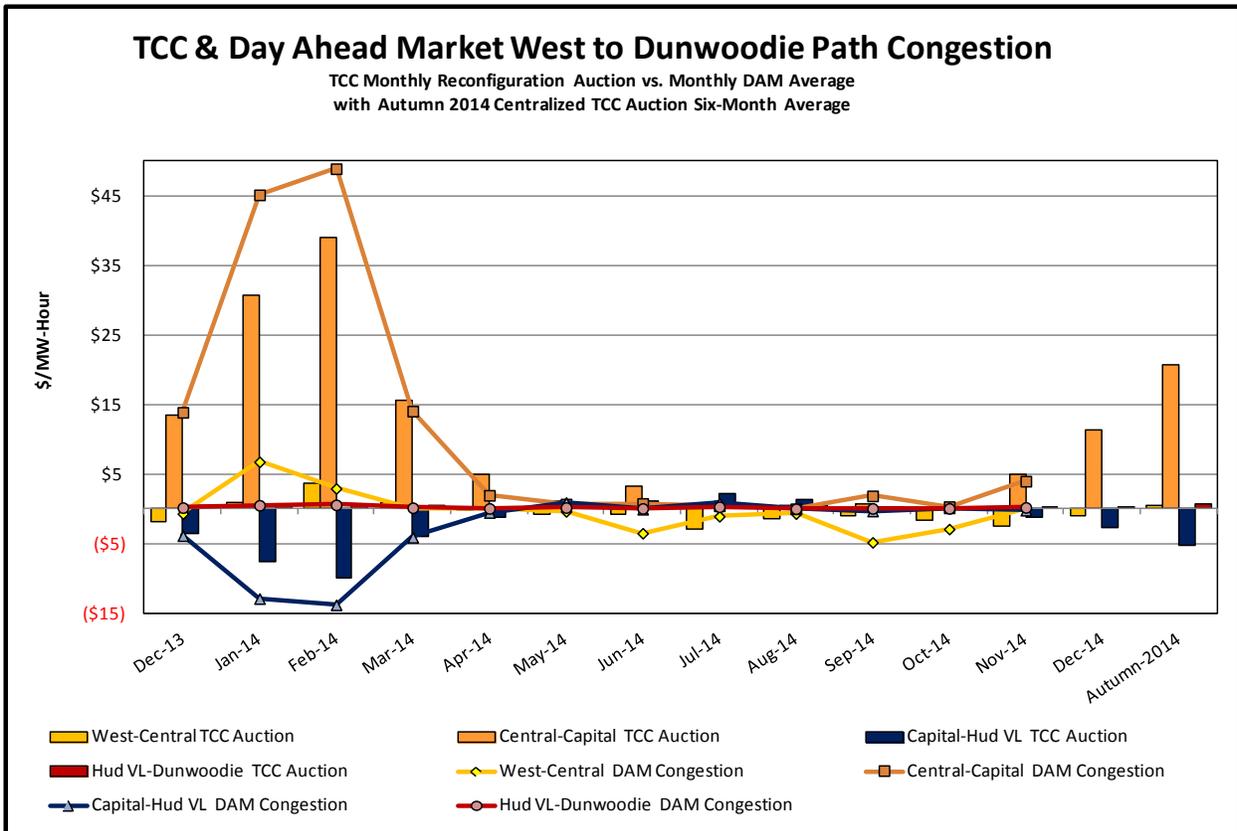
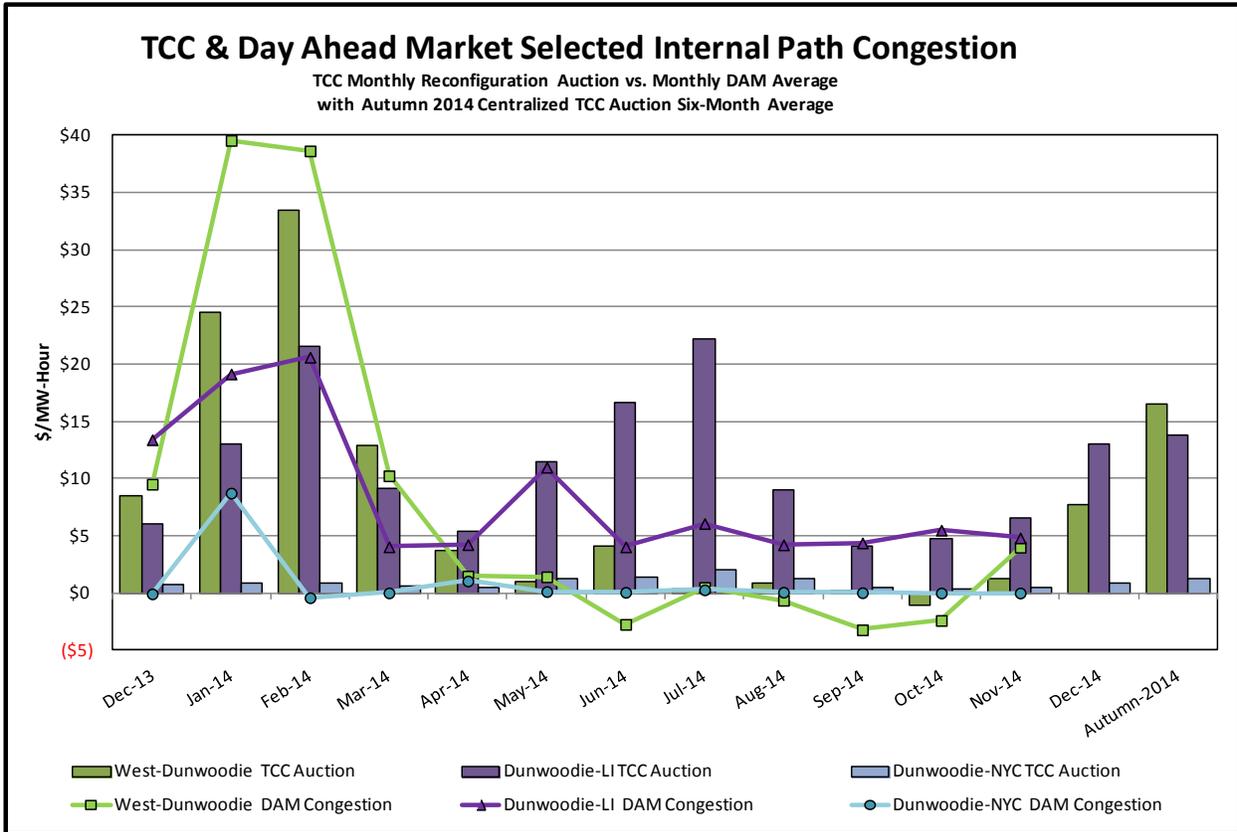
**Day-Ahead Market Congestion Residual Categories**

<u>Category</u>	<u>Cost Assignment</u>	<u>Events Types</u>	<u>Event Examples</u>
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.
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.	









### TCC & Day Ahead Market Selected External Path Congestion

TCC Monthly Reconfiguration Auction vs. Monthly DAM Average  
with Autumn 2014 Centralized TCC Auction Six-Month Average

