

Broader Regional Market Metrics (CTS)

**New York Independent
System Operator**

February 2016

February 2016 Broader Regional Markets Highlights (CTS)

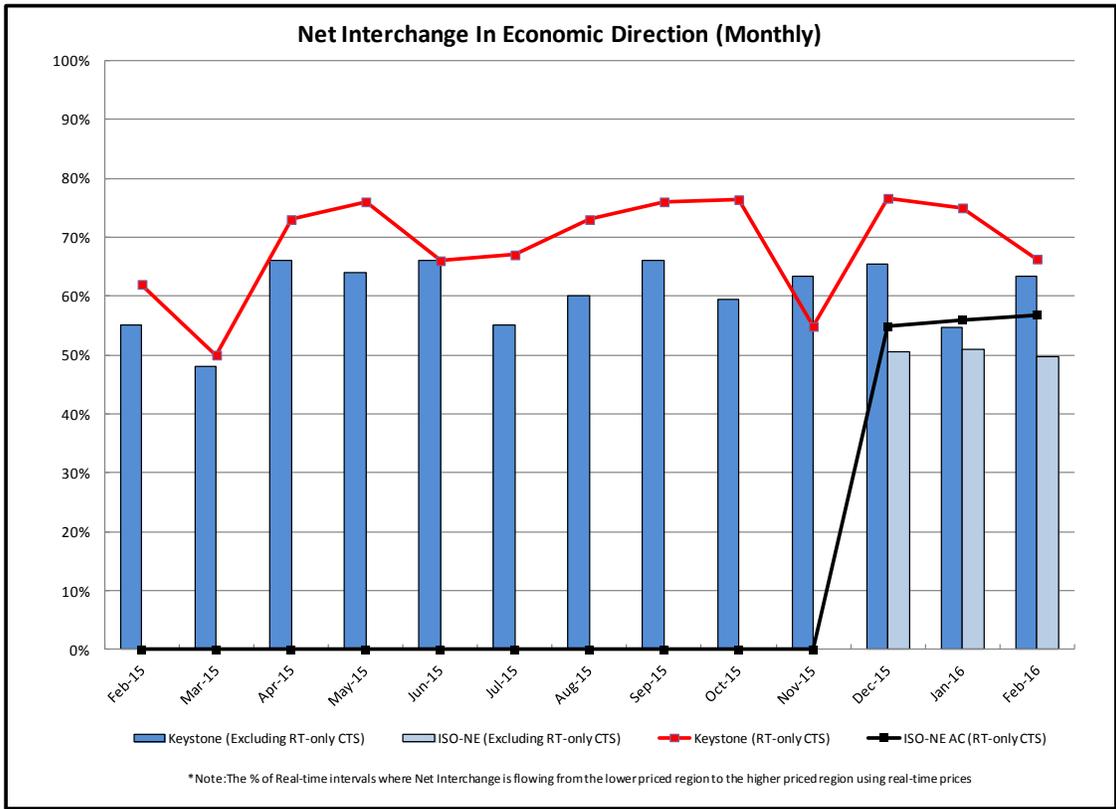
- PJM
 - At PJM Keystone, there was an average of 511 MWs¹ per hour of CTS offers, and an average of 12 MWs per hour of CTS schedules. The volume of CTS offers was consistent with January’s volume, however the average scheduled MWs were about half that of January.
 - Interchange at PJM Keystone associated with CTS transactions scheduled only in real-time flowed in the economic direction in 66% of the real-time intervals, as compared to all other interchange at the interface which flowed in the economic direction in 63% of the real-time intervals.
 - There was a \$0.31M production cost savings associated with real-time transaction scheduling with PJM (\$0.37M forecasted savings at time schedules are set). Year-to-date, the NY production cost savings is \$.12M (\$.52M forecasted savings).

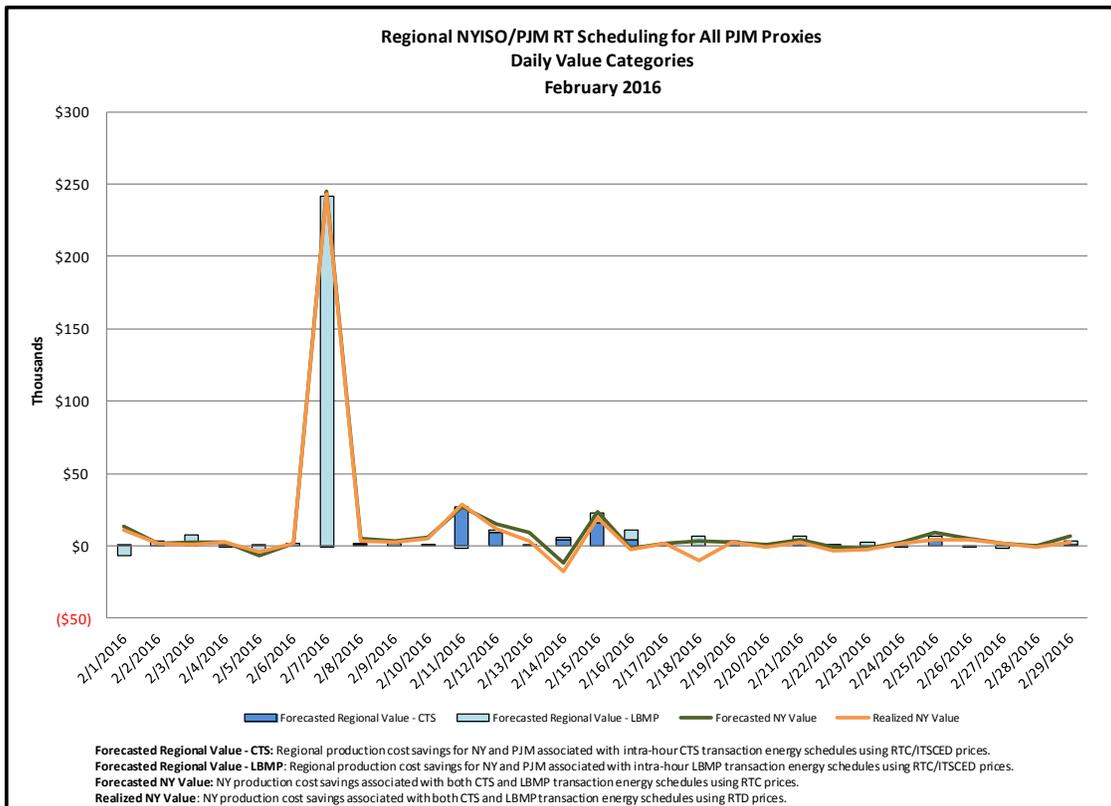
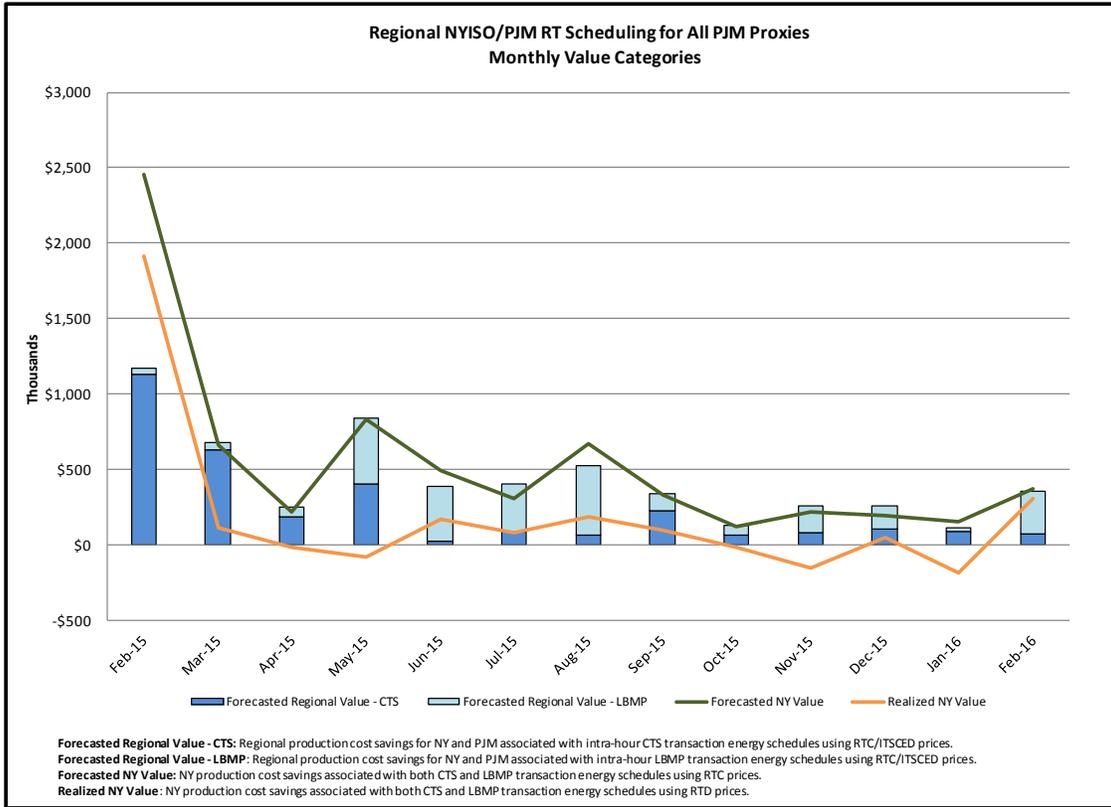
- ISO-NE
 - At NE Sandy Pond, there was an average of 1952 MWs¹ per hour of CTS offers, and an average of 755 MWs per hour of CTS schedules.
 - Interchange at ISO-NE AC associated with CTS transactions scheduled only in real-time flowed in the economic direction in 57% of the real-time intervals, as compared to all other interchange which flowed in the economic direction in 50% of the real-time intervals.
 - There was a \$0.21M production cost increase associated with real-time transaction scheduling with NE (\$0.1M forecasted increase at time schedules are set). Year-to-date, there is a NY production cost increase of \$.6M (\$.36M forecasted increase).

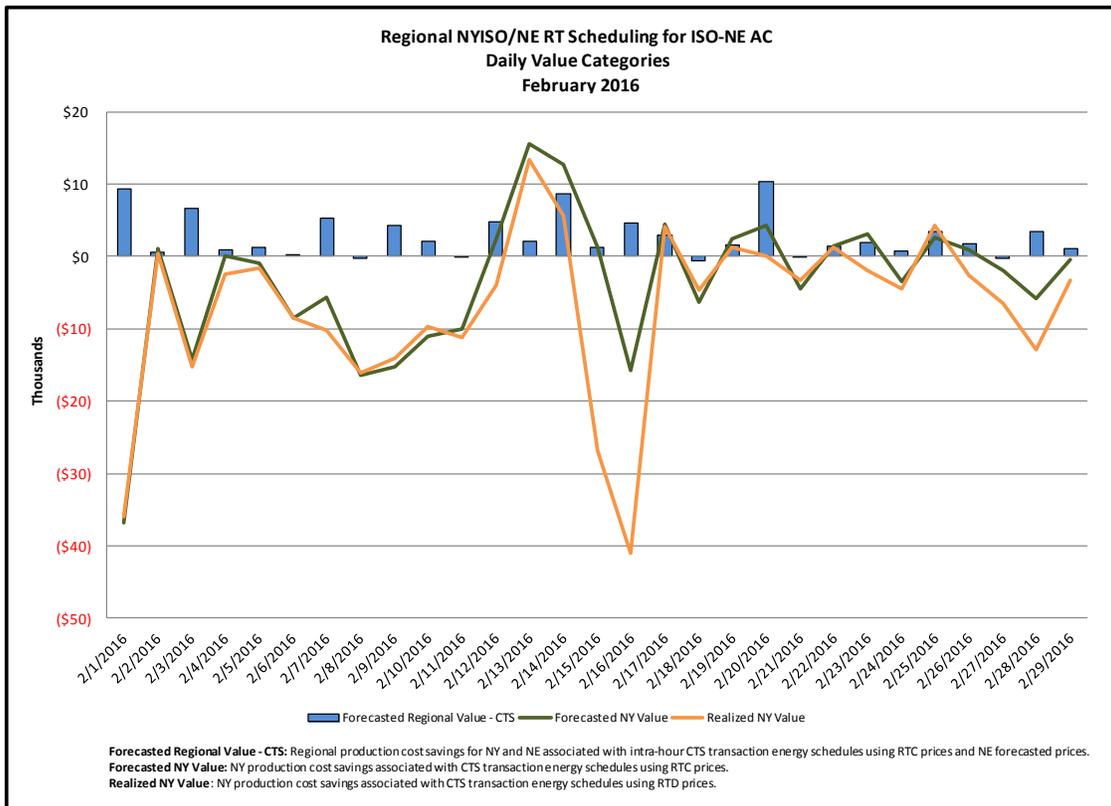
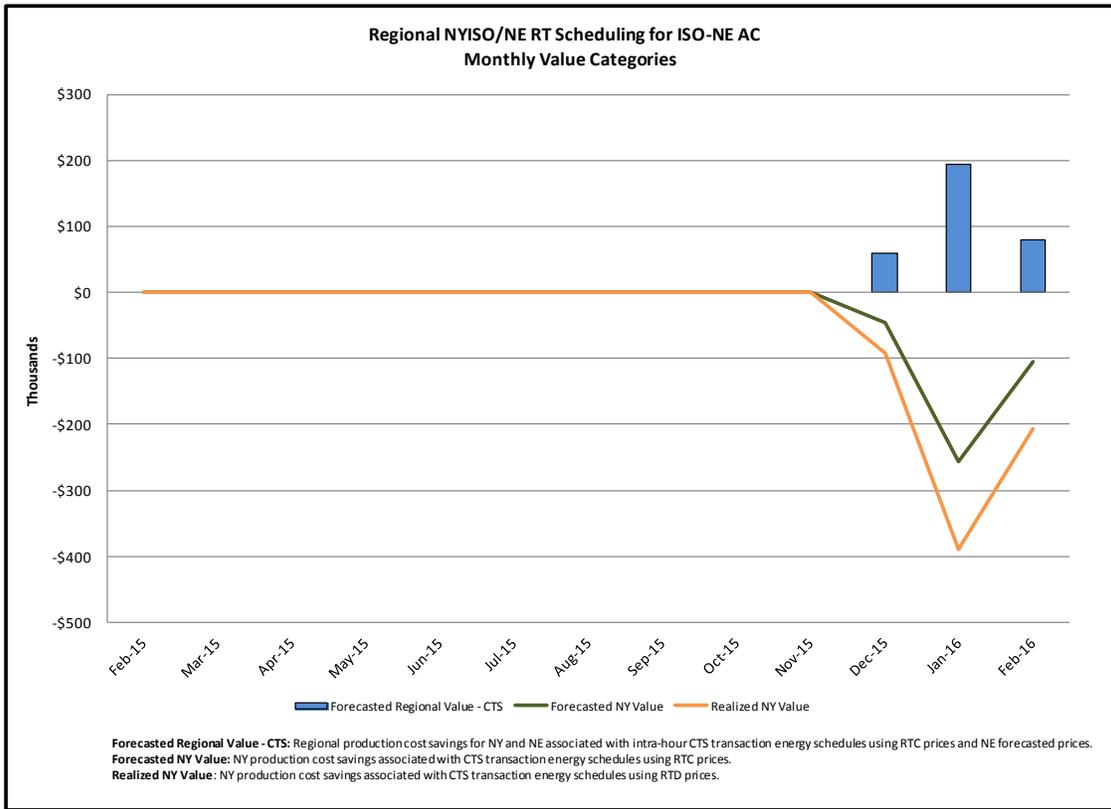
Pricing Data²

Interface	Max Forecasted Price Spread	Min Forecasted Price Spread	Forecasted Price Spreads minus Real-time Price Spreads					
			< \$-20	\$-20 to \$-10	\$-10 to \$0	\$0 to \$10	\$10 to \$20	> \$20
Keystone	\$982.75	(\$94.12)	2.9%	5.3%	42.4%	40.9%	4.4%	4.1%
HTP	\$1,293.45	(\$145.51)	5.2%	6.1%	37.4%	39.6%	6.4%	5.3%
NEPTUNE	\$353.52	(\$110.07)	6.7%	8.3%	34.3%	36.6%	7.6%	6.6%
VFT	\$845.47	(\$107.41)	5.5%	6.2%	37.2%	39.6%	6.6%	4.9%
Sandy Pond	\$165.87	(\$65.72)	6.8%	8.0%	36.0%	35.2%	8.9%	5.1%

1. All MW Values include the absolute sum of both imports + exports. Wheels have been excluded.
 2. “Forecasted Prices” refer to NYISO’s RTC LBMP and RTO’s LMP used in RTC. “Real-time Prices” refer to NYISO’s RTD LBMP and RTO’s Real-time LMP. Forecasted Prices are used during NYISO’s RTC evaluation to schedule transactions. Real-time Prices are used to settle transactions. Price Spreads are always calculated as NYISO’s LBMP minus RTO’s LMP.







Regional NYISO RT Scheduling

<u>Category</u>	<u>Description</u>
 Forecasted Regional Value - CTS	Forecasted regional production cost savings from the intra-hour (non-TOH) energy schedule changes on CTS bids (Intra-hour CTS Schedule Changes * [NY RTC LBMP – PJM or ISO-NE’s Forecasted LMP]).
 Forecasted Regional Value - LBMP	Forecasted regional production cost savings from the intra-hour (non-TOH) energy schedule changes on LBMP bids (Intra-hour LBMP Schedule Changes * [NY RTC LBMP - PJM or ISO-NE’s Forecasted LMP]).
 Forecasted NY Value	Forecasted NY production cost savings from the intra-hour (non-TOH) energy schedule changes on CTS and LBMP bids (Total Intra-hour CTS & LBMP Schedule Changes * NY RTC LBMP).
 Realized NY Value	Realized NY production cost savings from the intra-hour (non-TOH) energy schedule changes on CTS and LBMP bids (Total Intra-hour CTS & LBMP Schedule Changes * NY RTD LBMP).

