

Broader Regional Market Metrics (CTS)

**New York Independent
System Operator**

February 2017

February 2017 Broader Regional Markets Highlights (CTS)

- PJM
 - At PJM Keystone, there was an average of 545 MWs¹ per hour of CTS offers and an average of 101 MWs per hour of CTS schedules.
 - Interchange at PJM Keystone associated with CTS transactions scheduled only in real-time flowed in the economic direction in 74.1% of the real-time intervals, as compared to all other interchange at the interface which flowed in the economic direction in 57.8% of the real-time intervals.

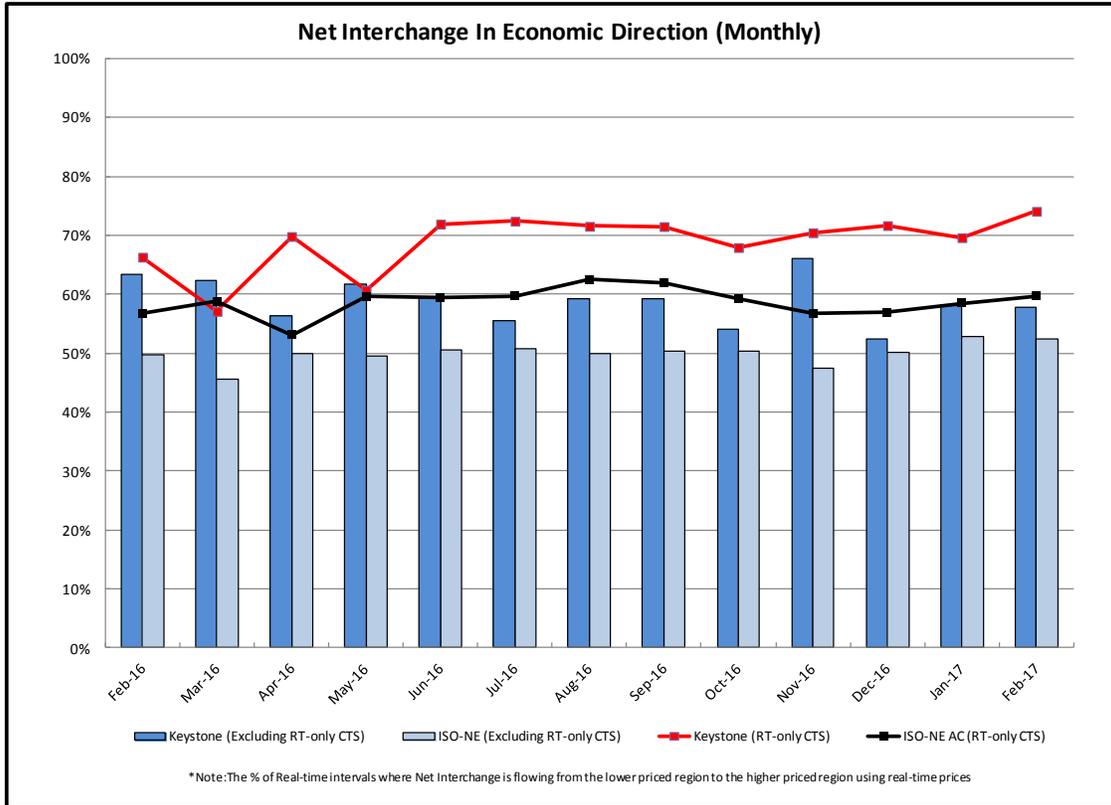
- ISO-NE
 - At NE Sandy Pond, there was an average of 2196 MWs¹ per hour of CTS offers, and an average of 997 MWs per hour of CTS schedules.
 - Interchange at NE Sandy Pond associated with CTS transactions scheduled only in real-time flowed in the economic direction in 59.7% of the real-time intervals, as compared to all other interchange which flowed in the economic direction in 52.4% of the real-time intervals.

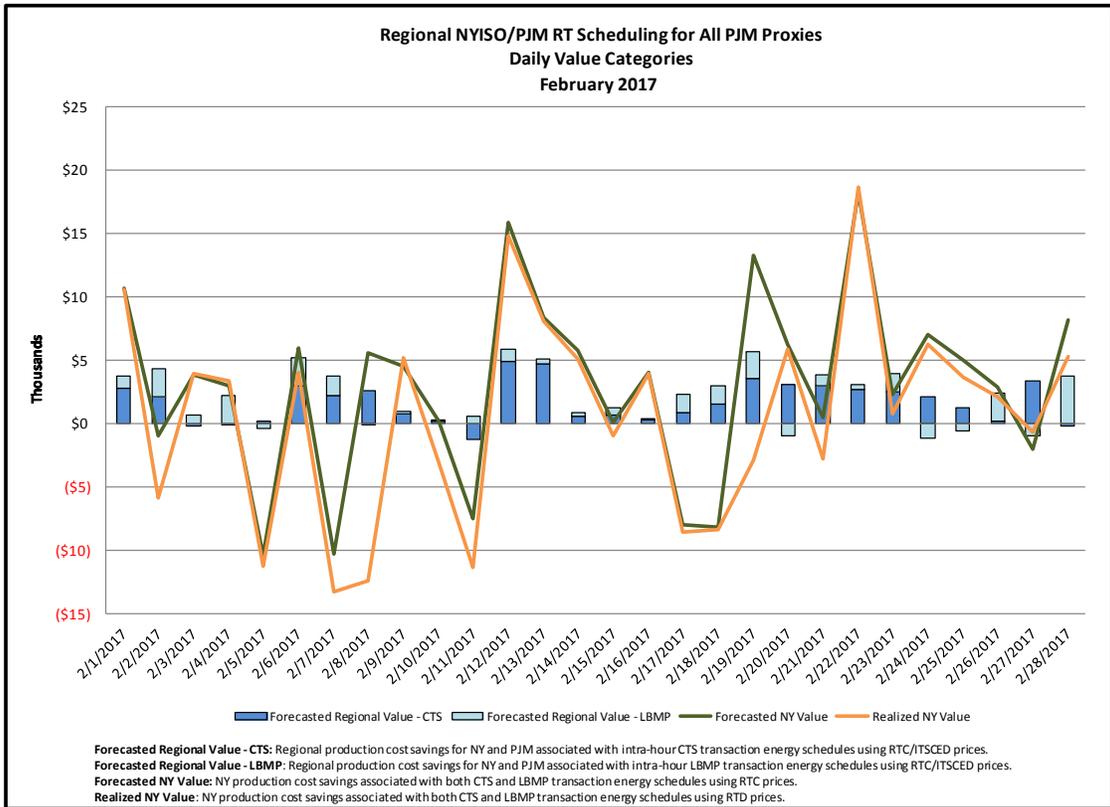
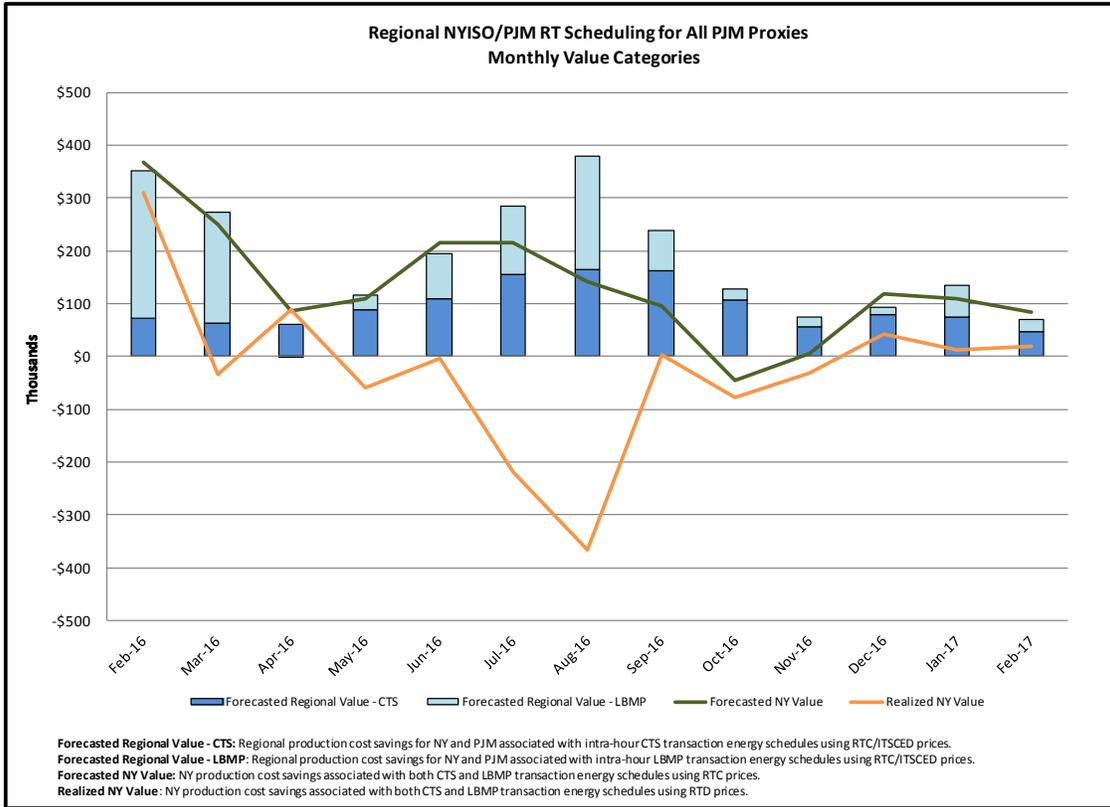
Pricing Data²

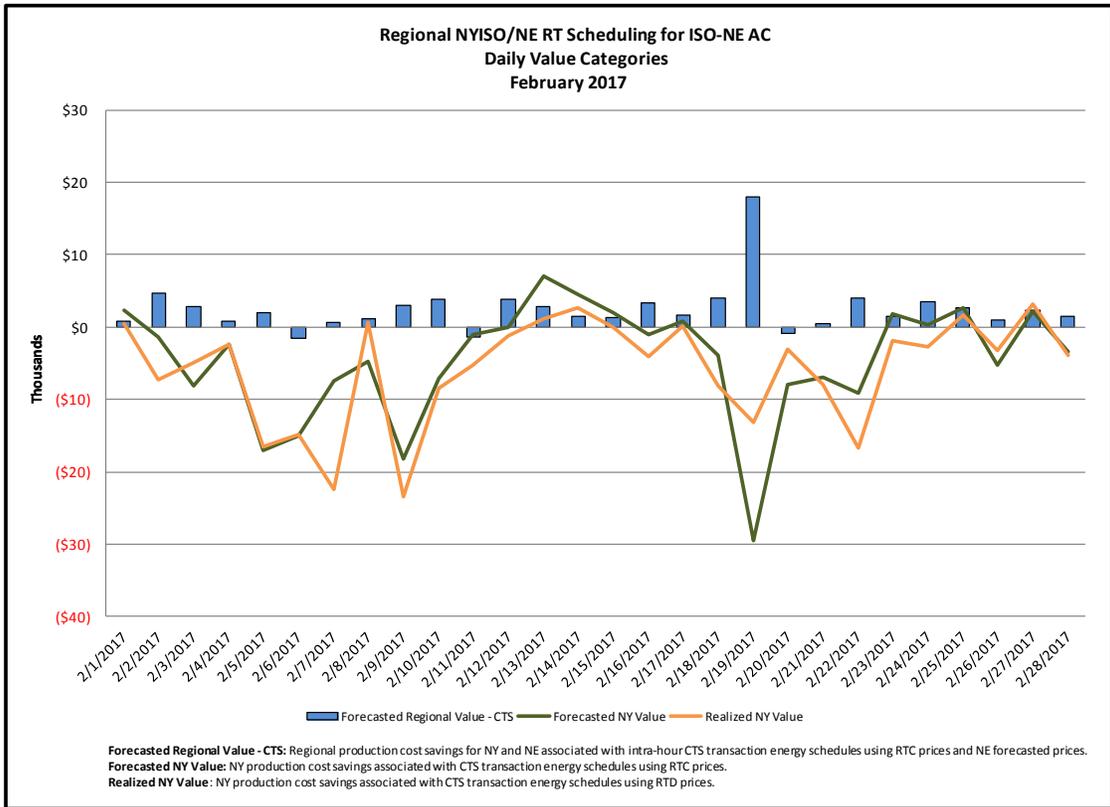
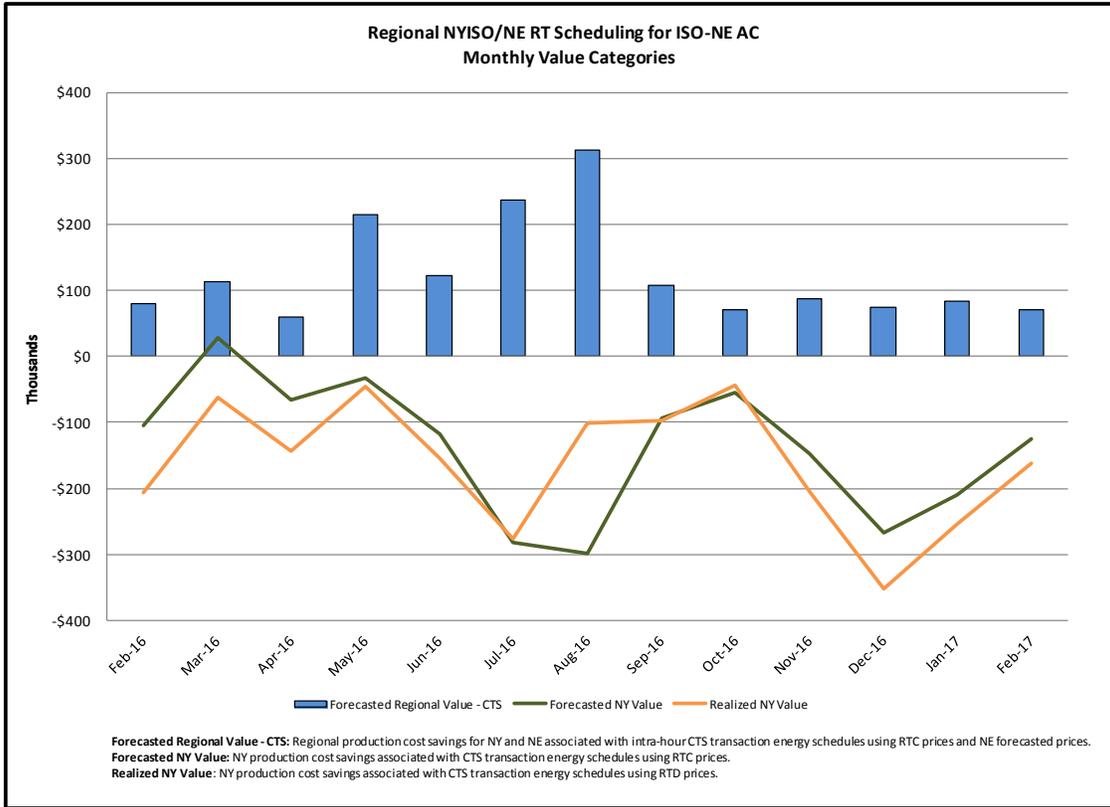
Interface	Max Forecasted Price Spread	Min Forecasted Price Spread	Forecasted Price Spreads minus Real-time Price Spreads					
			< \$-20	\$-20 to \$-10	\$-10 to \$0	\$0 to \$10	\$10 to \$20	> \$20
Keystone	\$60.74	(\$64.87)	2.3%	4.1%	44.8%	43.1%	3.4%	2.3%
HTP	\$102.47	(\$55.47)	3.5%	4.6%	42.4%	41.8%	4.9%	2.7%
NEPTUNE	\$962.57	(\$49.59)	3.8%	4.5%	41.9%	41.0%	5.1%	3.7%
VFT	\$102.63	(\$56.36)	3.5%	4.5%	42.6%	41.7%	4.9%	2.7%
Sandy Pond	\$105.72	(\$128.21)	10.0%	7.8%	32.4%	38.7%	7.1%	3.9%

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 ¹ 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 ¹ 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 ¹ 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 ¹ on CTS and LBMP bids (Total Intra-hour CTS & LBMP Schedule Changes * NY RTD LBMP).

¹ Note: Schedule changes associated with manual Operator actions such as curtailments and/or transaction derates, and that have a significant impact (either positive or negative) to the above metrics, are generally excluded.

