

Broader Regional Market Metrics (CTS)

**New York Independent
System Operator**

October 2016

October 2016 Broader Regional Markets Highlights (CTS)

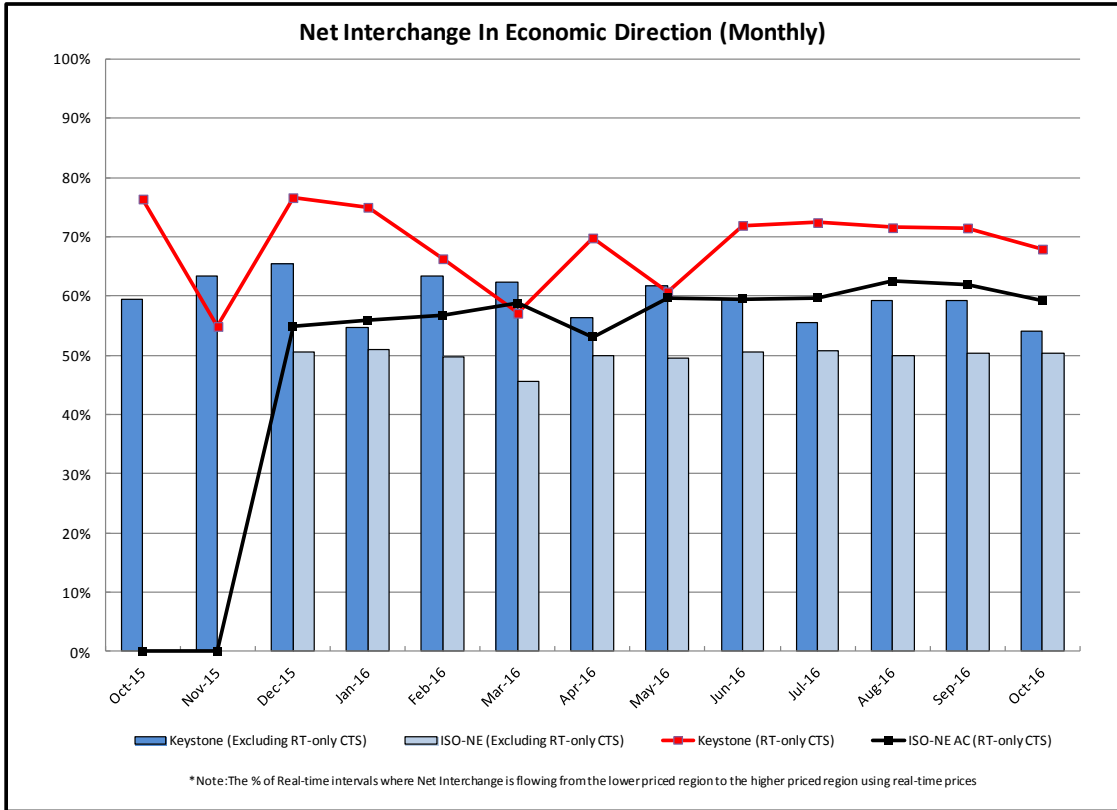
- PJM
 - At PJM Keystone, there was an average of 169 MWs¹ per hour of CTS offers and an average of 39 MWs per hour of CTS schedules.
 - Interchange at PJM Keystone associated with CTS transactions scheduled only in real-time flowed in the economic direction in 67.9% of the real-time intervals, as compared to all other interchange at the interface which flowed in the economic direction in 54% of the real-time intervals.

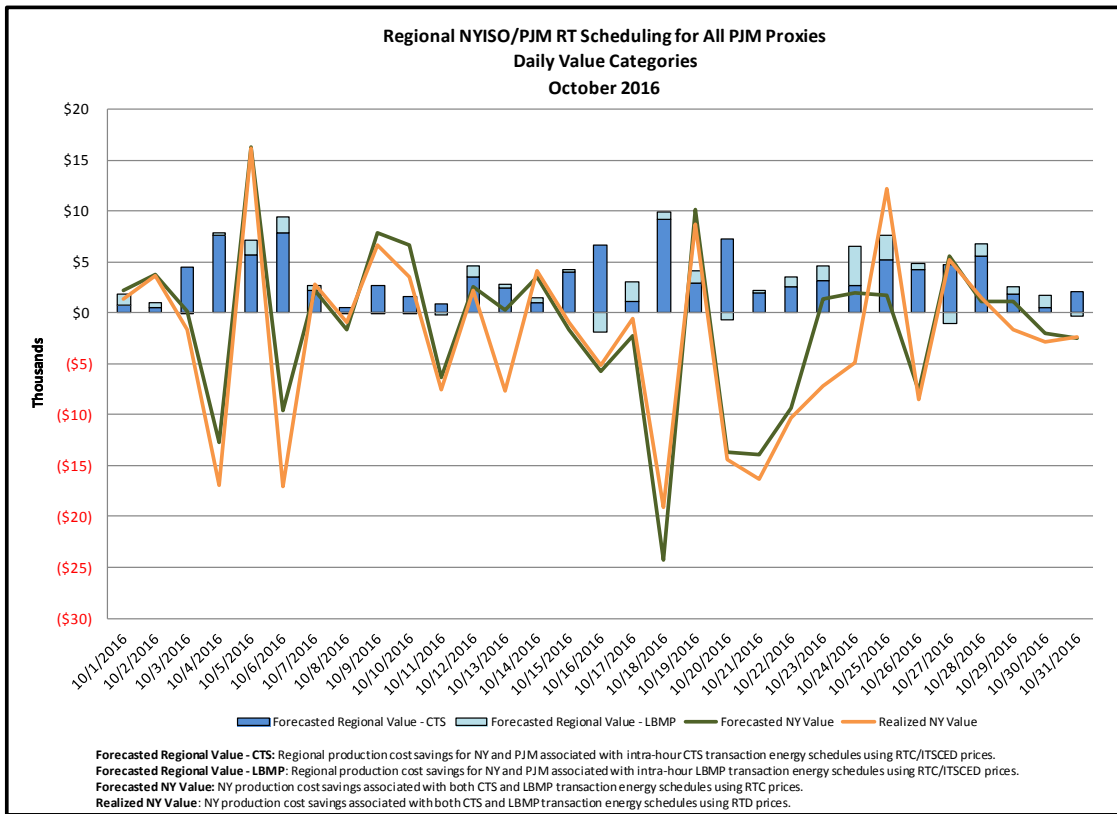
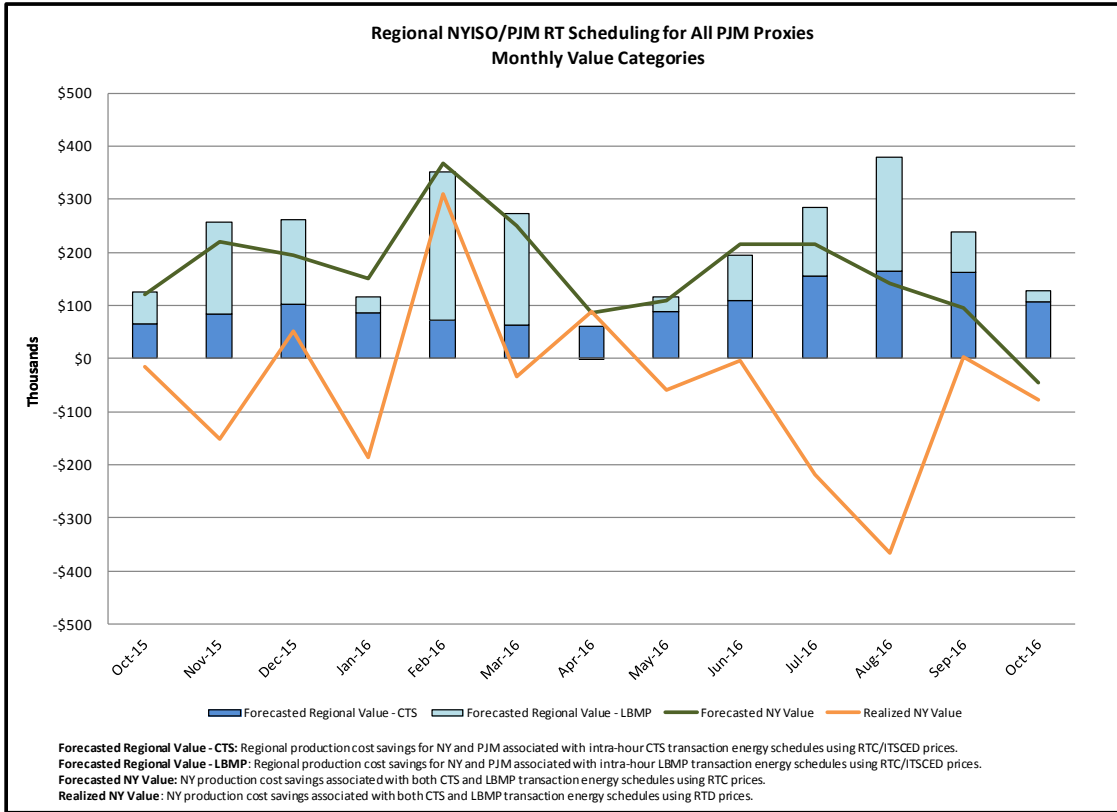
- ISO-NE
 - At NE Sandy Pond, there was an average of 2020 MWs¹ per hour of CTS offers, and an average of 918 MWs per hour of CTS schedules.
 - Interchange at NE Sandy Pond associated with CTS transactions scheduled only in real-time flowed in the economic direction in 59.3% of the real-time intervals, as compared to all other interchange which flowed in the economic direction in 50.3% of the real-time intervals.

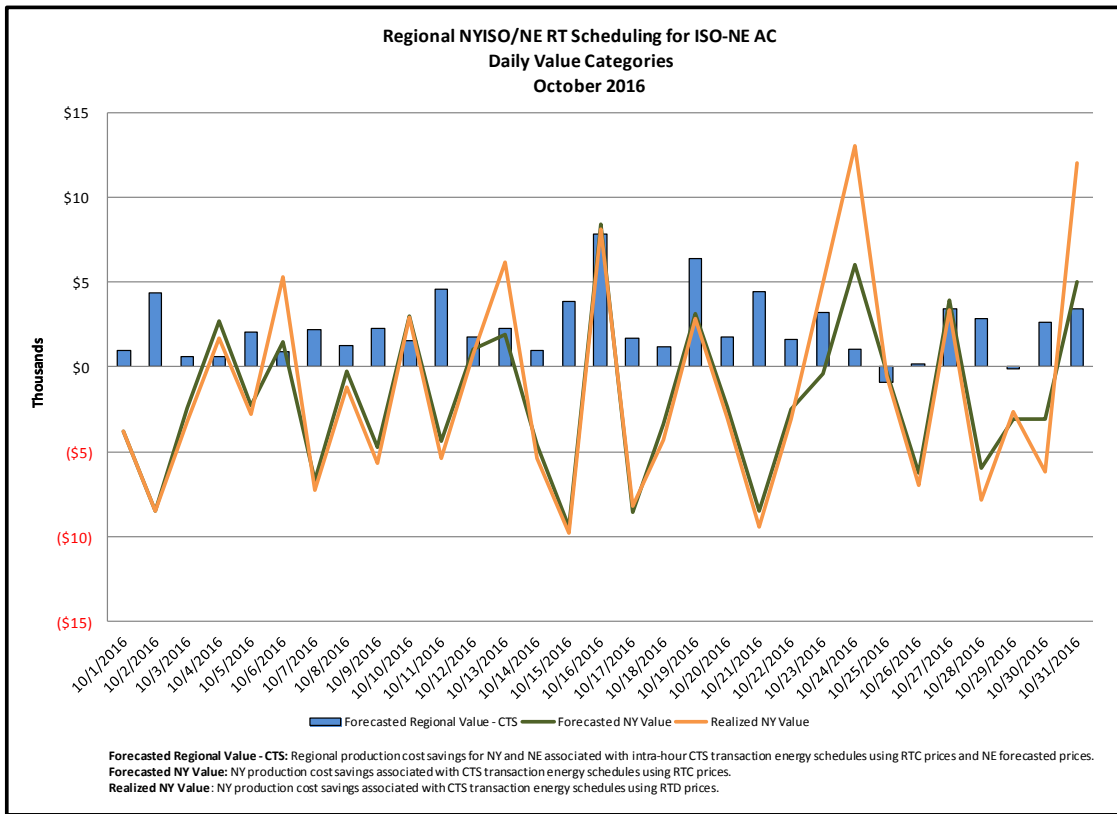
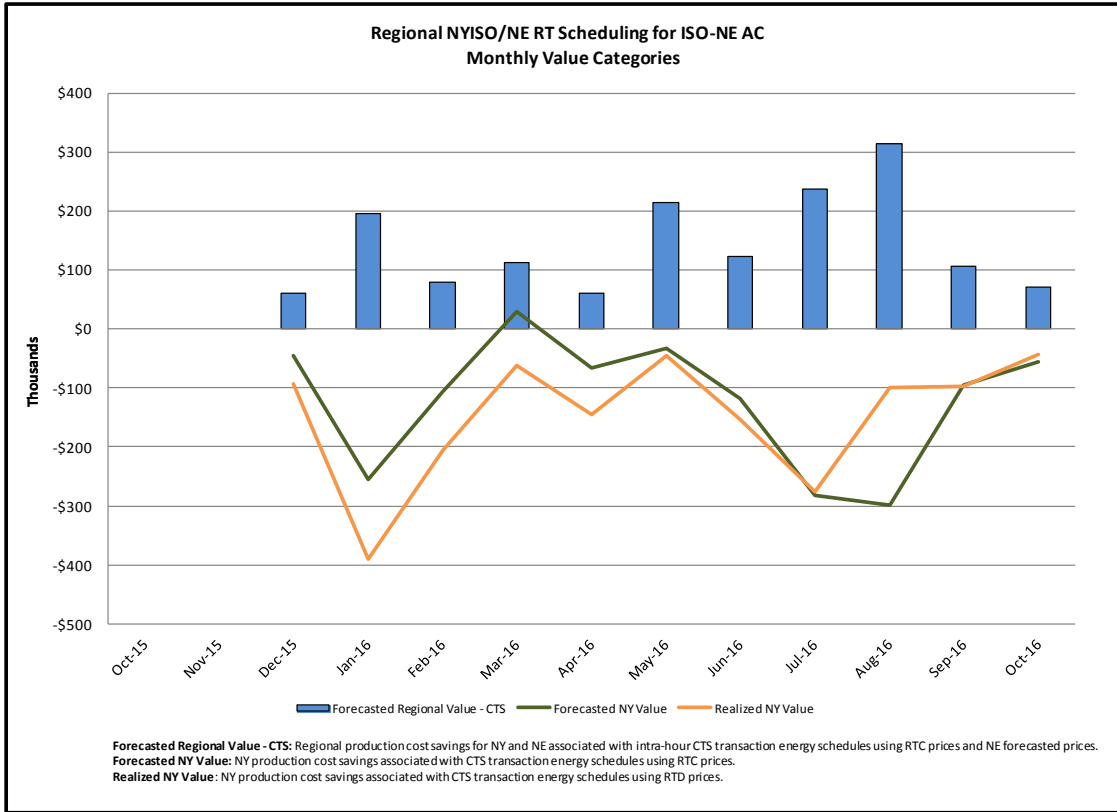
Pricing Data²

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	\$326.78	(\$50.05)	4.5%	8.0%	47.8%	32.5%	4.3%	2.8%
HTP	\$67.57	(\$48.20)	4.4%	8.7%	47.8%	32.4%	4.4%	2.4%
NEPTUNE	\$234.51	(\$47.90)	4.4%	8.7%	45.8%	32.6%	4.8%	3.7%
VFT	\$66.99	(\$47.96)	4.4%	8.7%	47.9%	32.3%	4.4%	2.2%
Sandy Pond	\$43.24	(\$58.73)	7.7%	6.7%	39.3%	36.4%	5.8%	4.1%





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 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.

