

# **Broader Regional Market Metrics (CTS)**

**New York Independent  
System Operator**

**November 2016**

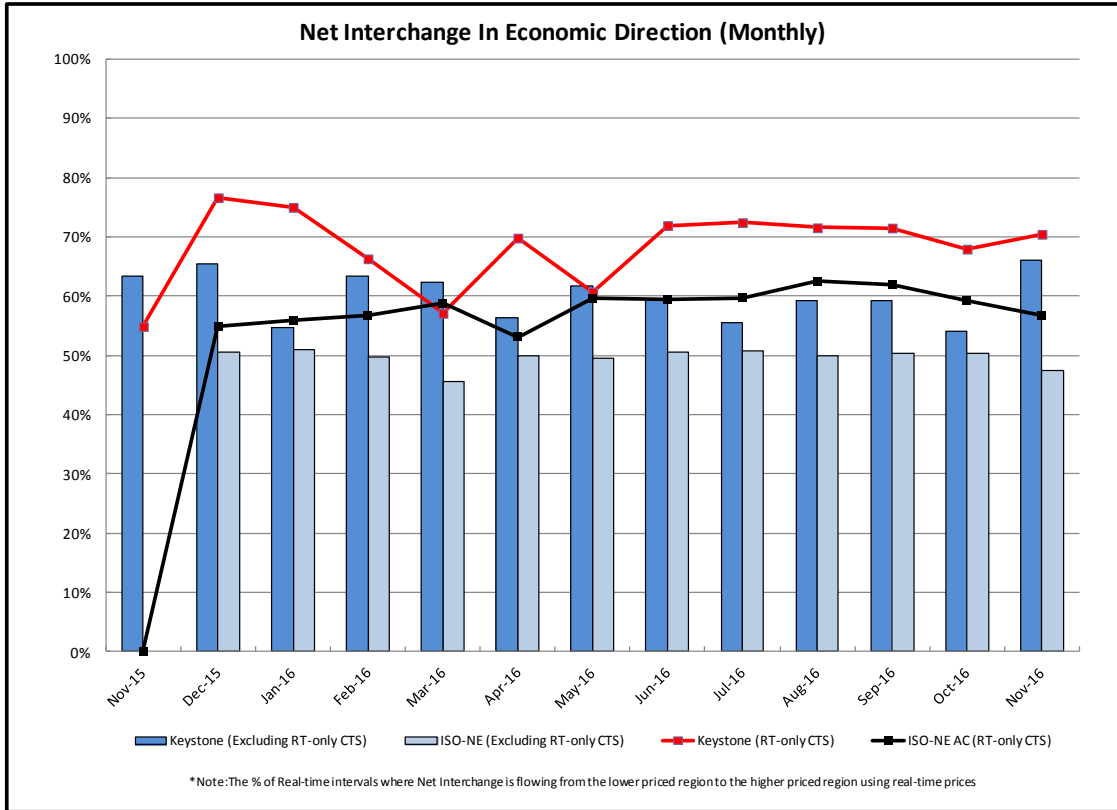
## November 2016 Broader Regional Markets Highlights (CTS)

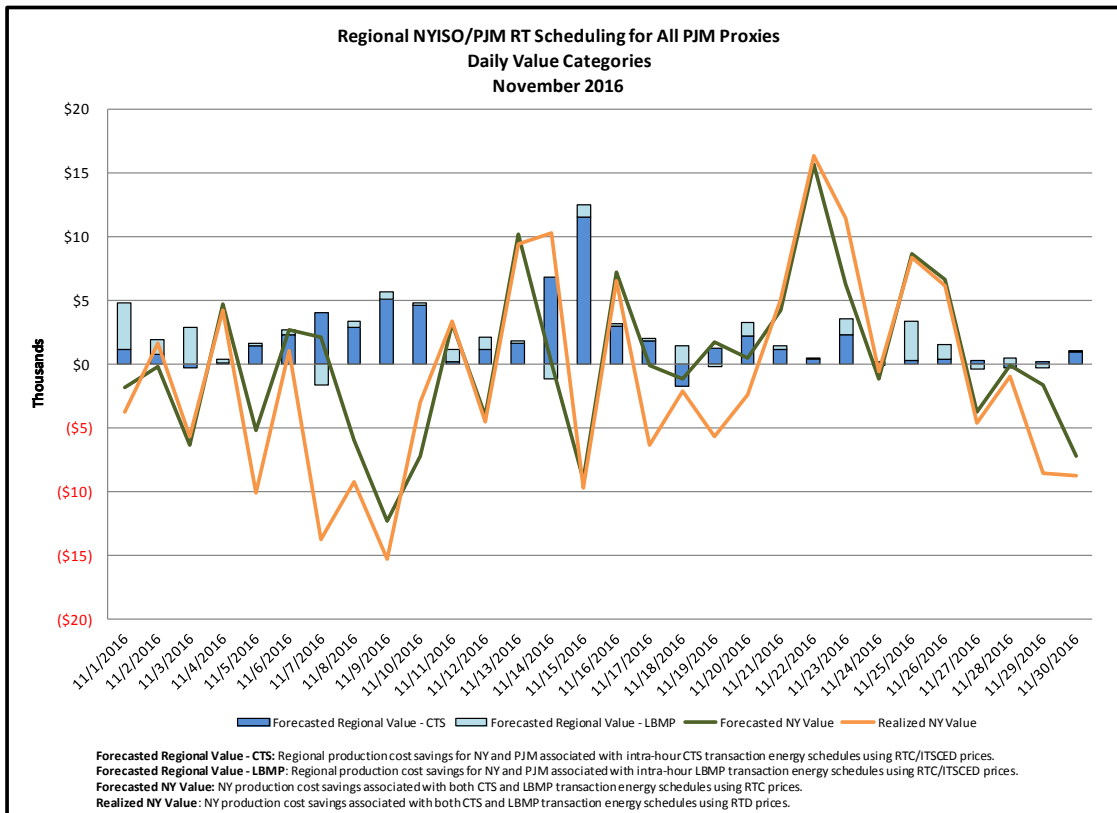
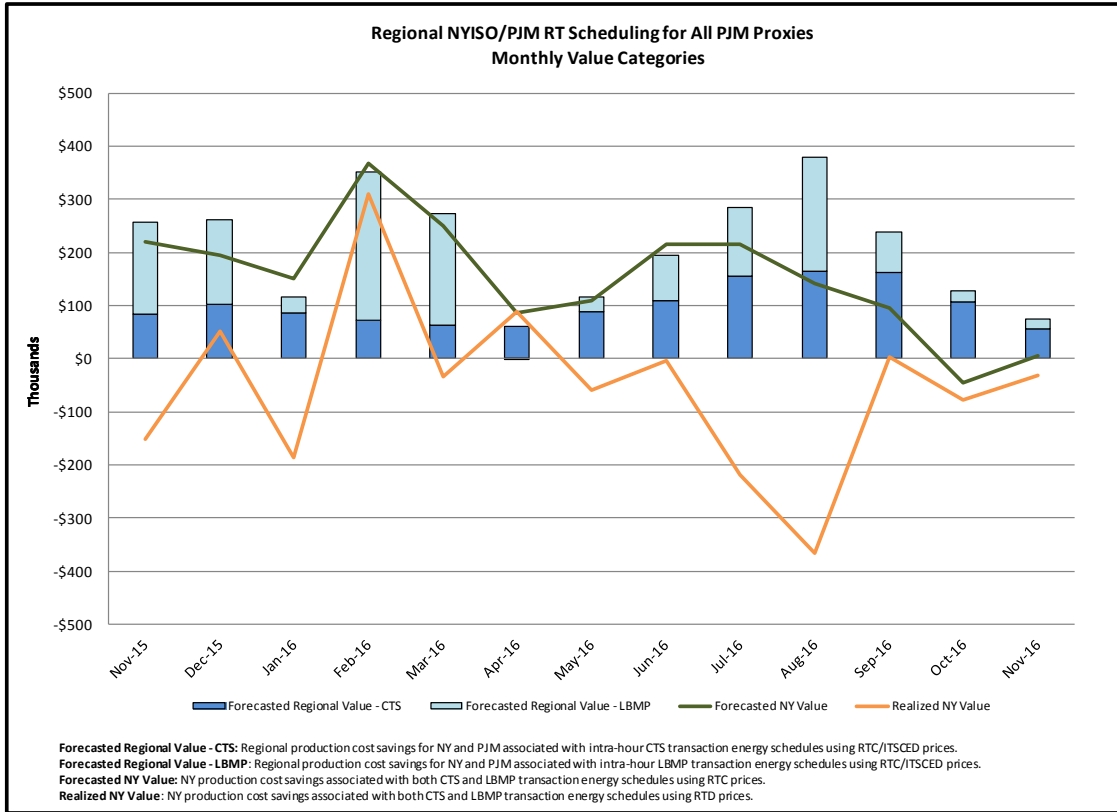
- PJM
  - At PJM Keystone, there was an average of 110 MWs<sup>1</sup> per hour of CTS offers and an average of 25 MWs per hour of CTS schedules.
  - Interchange at PJM Keystone associated with CTS transactions scheduled only in real-time flowed in the economic direction in 70.4% of the real-time intervals, as compared to all other interchange at the interface which flowed in the economic direction in 66.0% of the real-time intervals.
  
- ISO-NE
  - At NE Sandy Pond, there was an average of 1950 MWs<sup>1</sup> per hour of CTS offers, and an average of 930 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 56.7% of the real-time intervals, as compared to all other interchange which flowed in the economic direction in 47.4% of the real-time intervals.

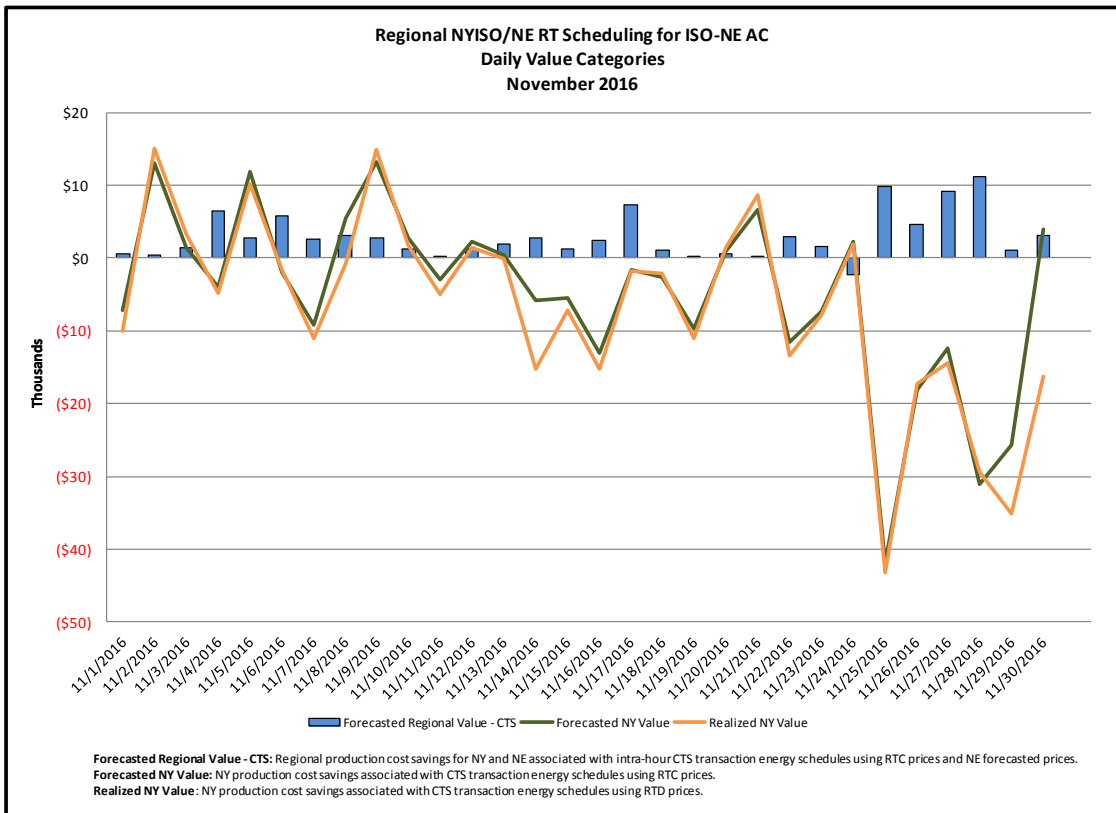
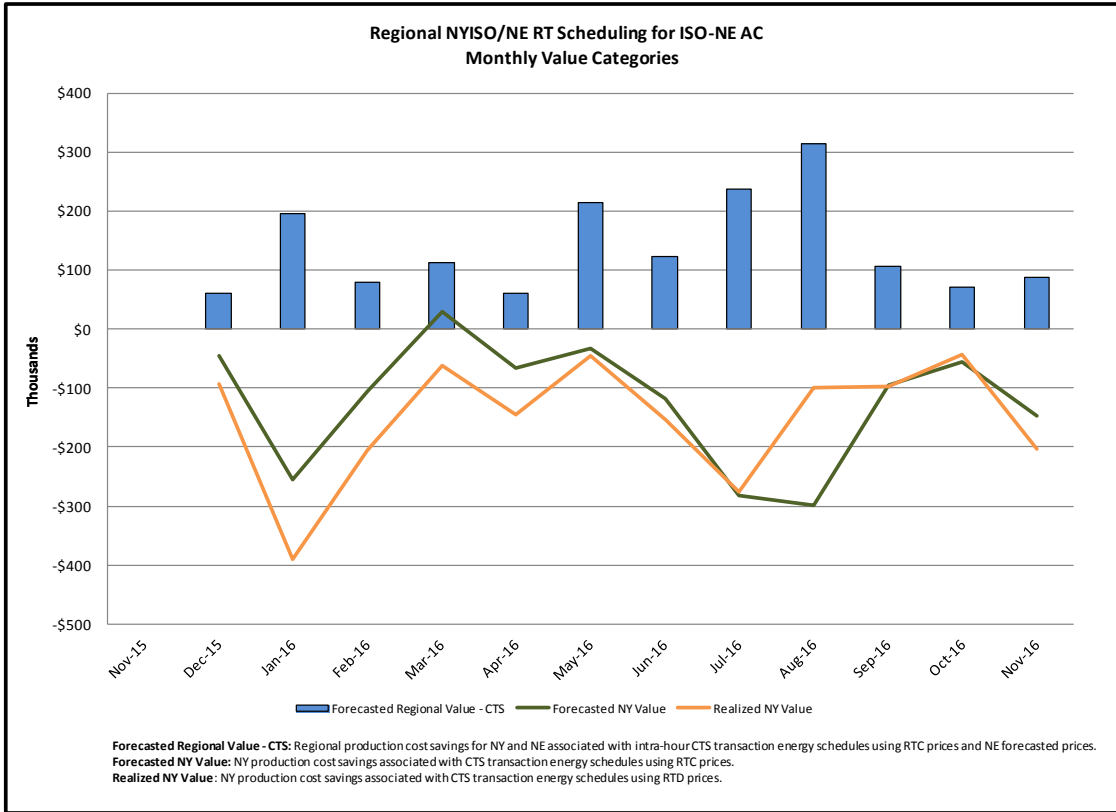
## Pricing Data<sup>2</sup>

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	\$83.81	(\$136.33)	3.8%	5.8%	48.7%	36.0%	3.7%	2.0%
HTP	\$99.94	(\$136.97)	4.4%	6.6%	47.4%	35.0%	4.5%	2.1%
NEPTUNE	\$1,235.59	(\$134.07)	6.0%	7.0%	45.0%	32.8%	5.6%	3.7%
VFT	\$58.17	(\$133.21)	5.4%	7.1%	49.1%	32.4%	4.1%	1.8%
Sandy Pond	\$40.00	(\$102.46)	9.4%	9.0%	35.5%	37.4%	5.4%	3.3%





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

<sup>1</sup> 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.

