

Broader Regional Market Metrics (CTS)

New York Independent
System Operator

April 2017

Prepared by NYISO Operations Regional Market Coordination

April 2017 Broader Regional Markets Highlights (CTS)

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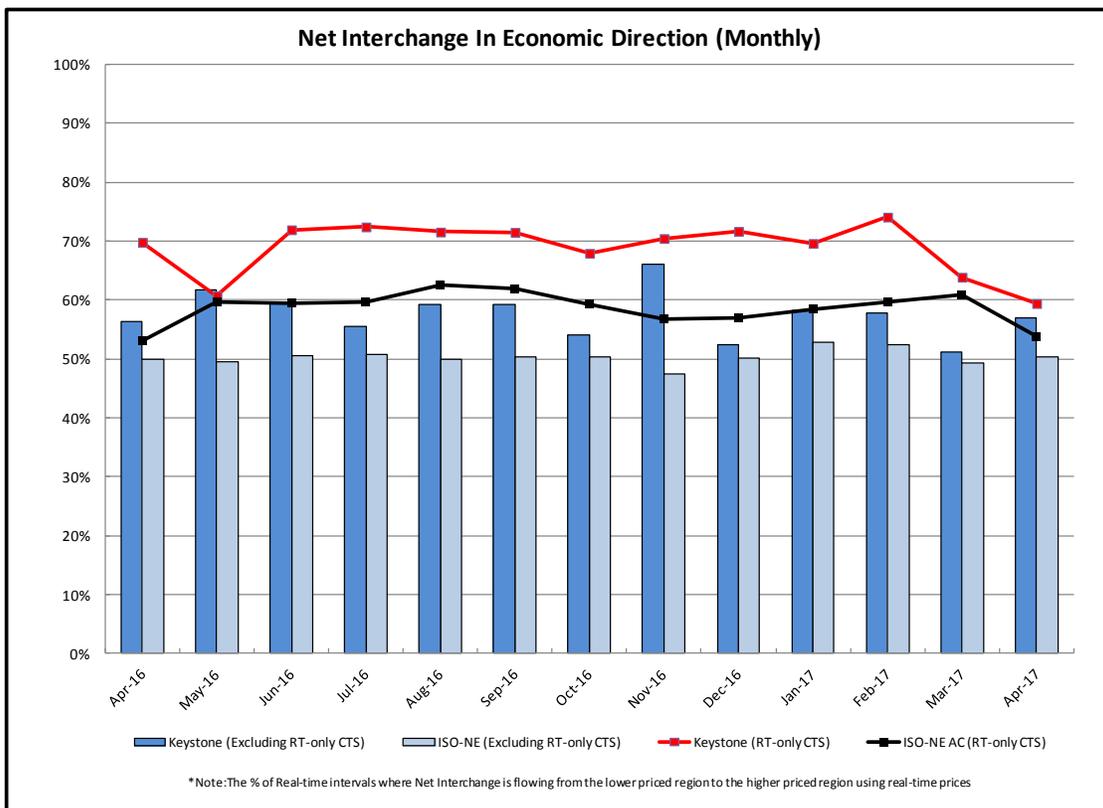
- PJM
 - At PJM Keystone, there was an average of 373 MWs¹ per hour of CTS offers and an average of 104 MWs per hour of CTS schedules.
 - Interchange at PJM Keystone associated with CTS transactions scheduled only in real-time flowed in the economic direction in 59.4% of the real-time intervals, as compared to all other interchange at the interface which flowed in the economic direction in 56.8% of the real-time intervals.

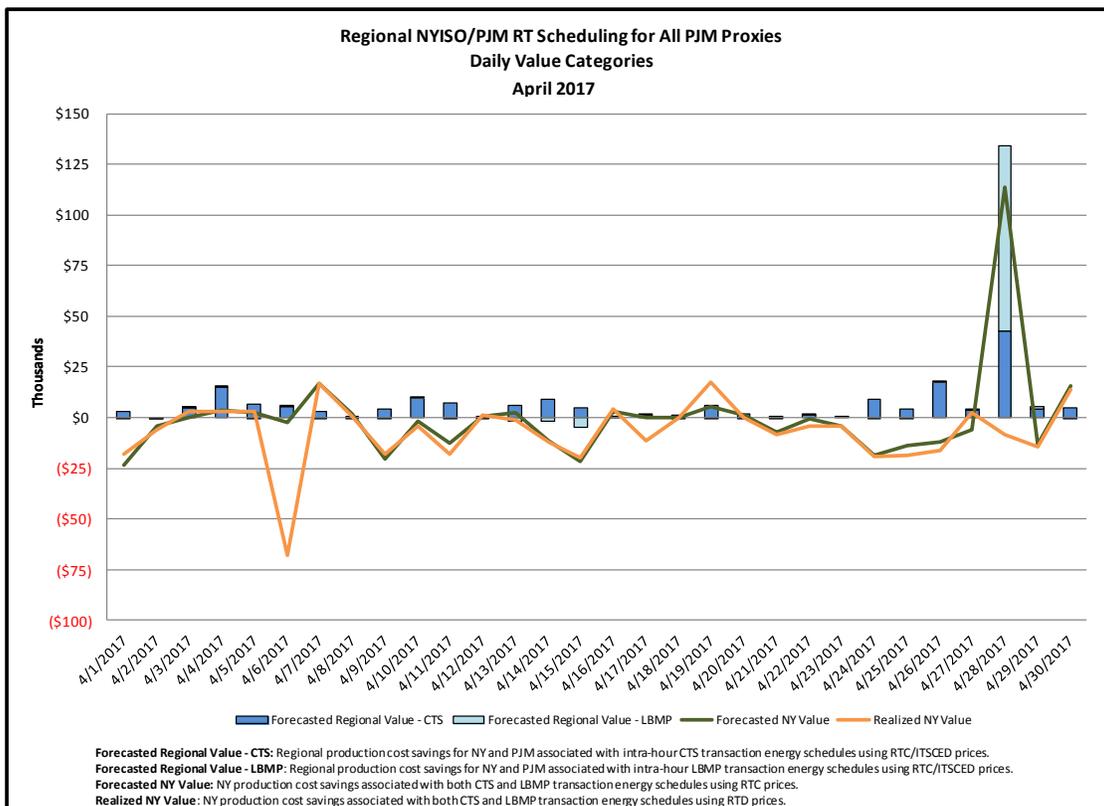
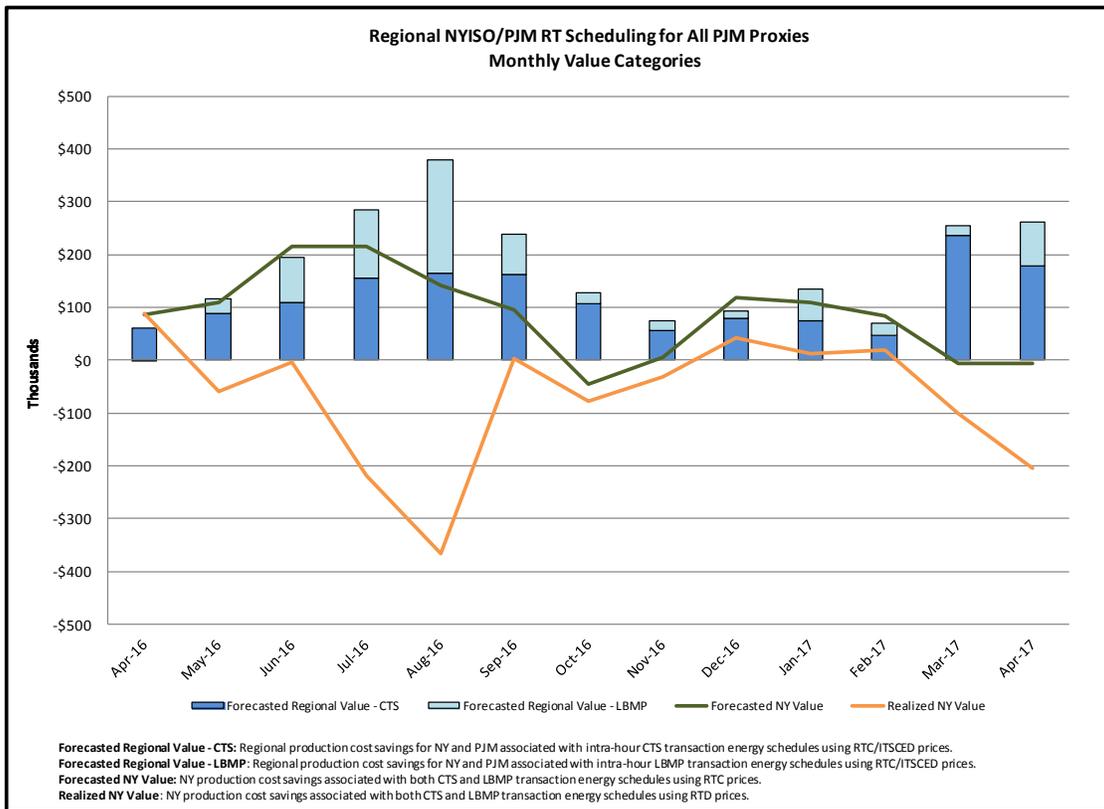
- ISO-NE
 - At NE Sandy Pond, there was an average of 2281 MWs¹ per hour of CTS offers, and an average of 920 MWs per hour of CTS schedules.
 - Interchange at NE Sandy Pond associated with CTS transactions scheduled only in real-time flowed in the economic direction in 53.8% of the real-time intervals, as compared to all other interchange which flowed in the economic direction in 50.4% of the real-time intervals.

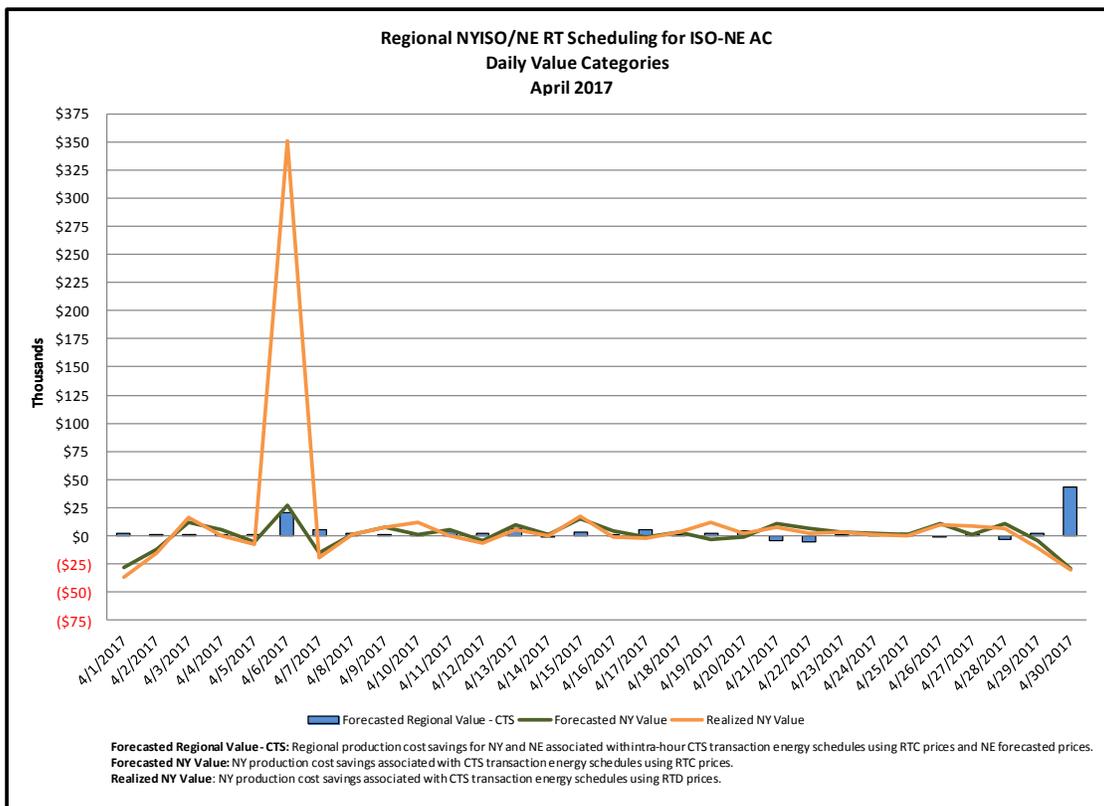
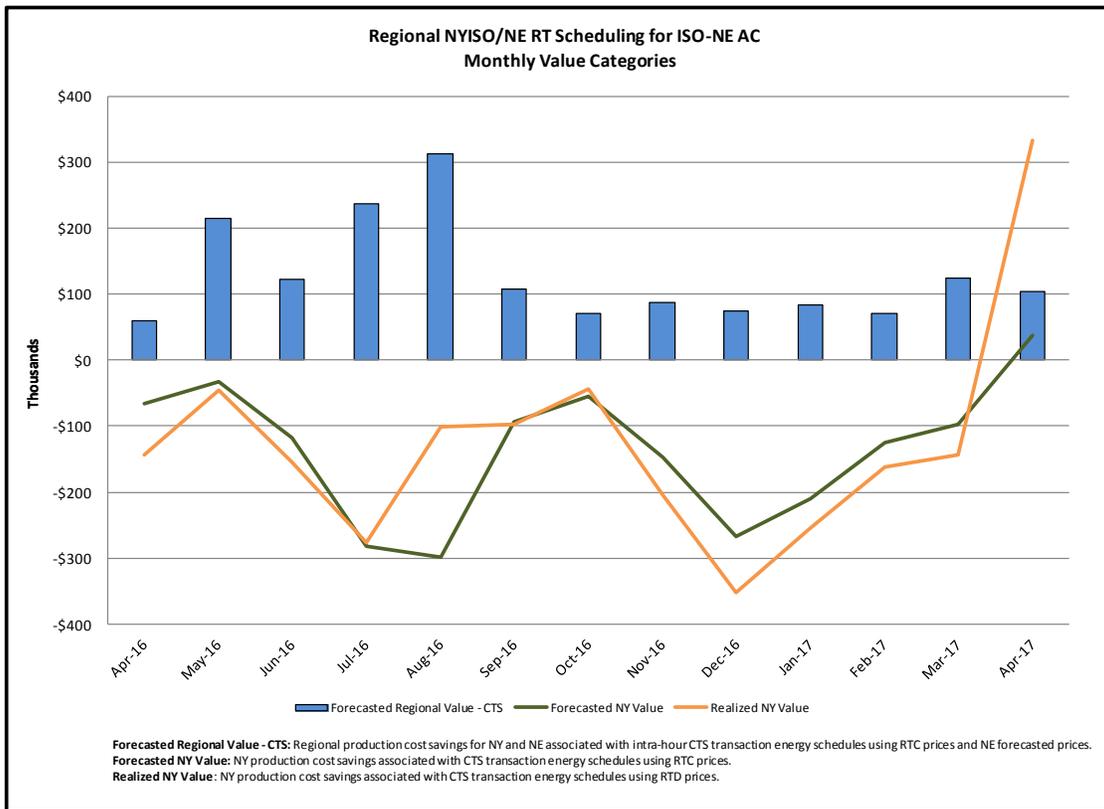
Pricing Data²

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	\$130.12	(\$999.98)	6.7%	8.4%	43.1%	34.6%	4.4%	2.8%
HTP	\$145.01	(\$238.57)	7.5%	9.5%	39.2%	35.5%	5.3%	3.0%
NEPTUNE	\$143.55	(\$236.84)	7.7%	10.1%	37.9%	34.1%	6.6%	3.7%
VFT	\$65.32	(\$237.52)	7.7%	9.7%	39.6%	35.0%	5.2%	2.7%
Sandy Pond	\$23.01	(\$1,007.60)	9.8%	9.2%	32.7%	37.6%	6.6%	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.

