

Broader Regional Market Metrics (CTS)

New York Independent
System Operator

July 2017

Prepared by NYISO Operations Regional Market Coordination

July 2017 Broader Regional Markets Highlights (CTS)

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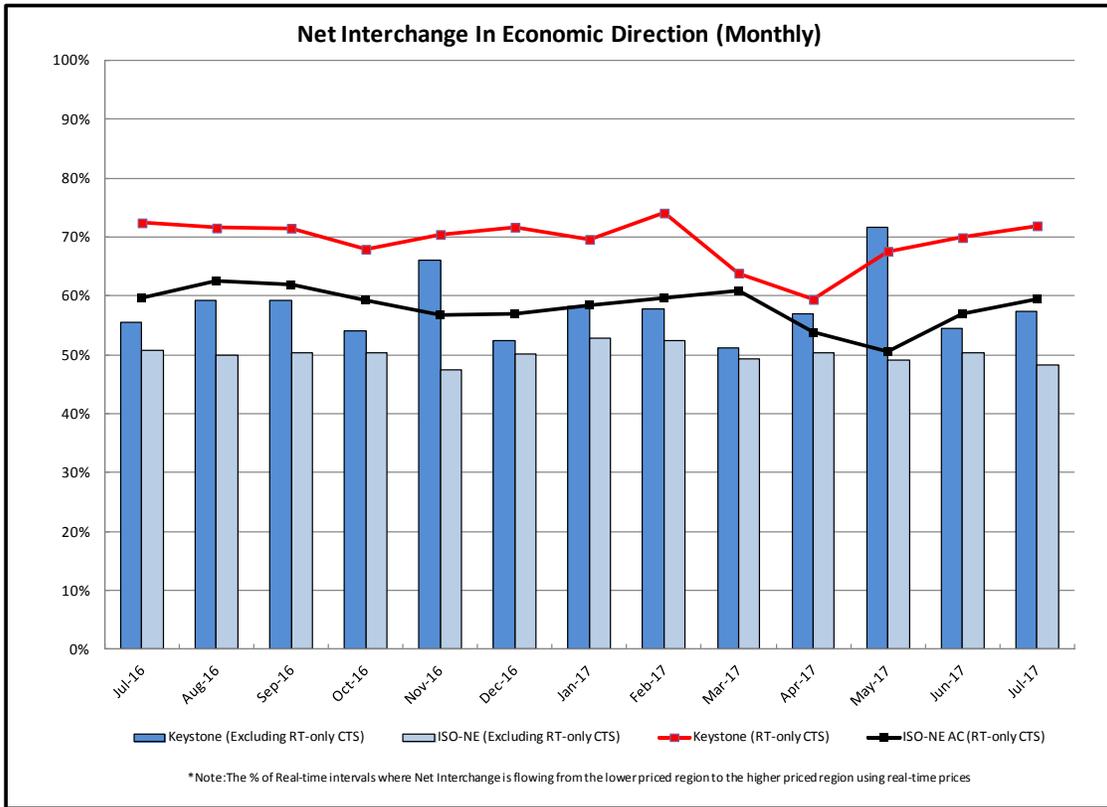
- PJM
 - At PJM Keystone, there was an average of 697 MWs¹ per hour of CTS offers and an average of 139 MWs per hour of CTS schedules.
 - Interchange at PJM Keystone associated with CTS transactions scheduled only in real-time flowed in the economic direction in 71.9% of the real-time intervals, as compared to all other interchange at the interface which flowed in the economic direction in 57.3% of the real-time intervals.

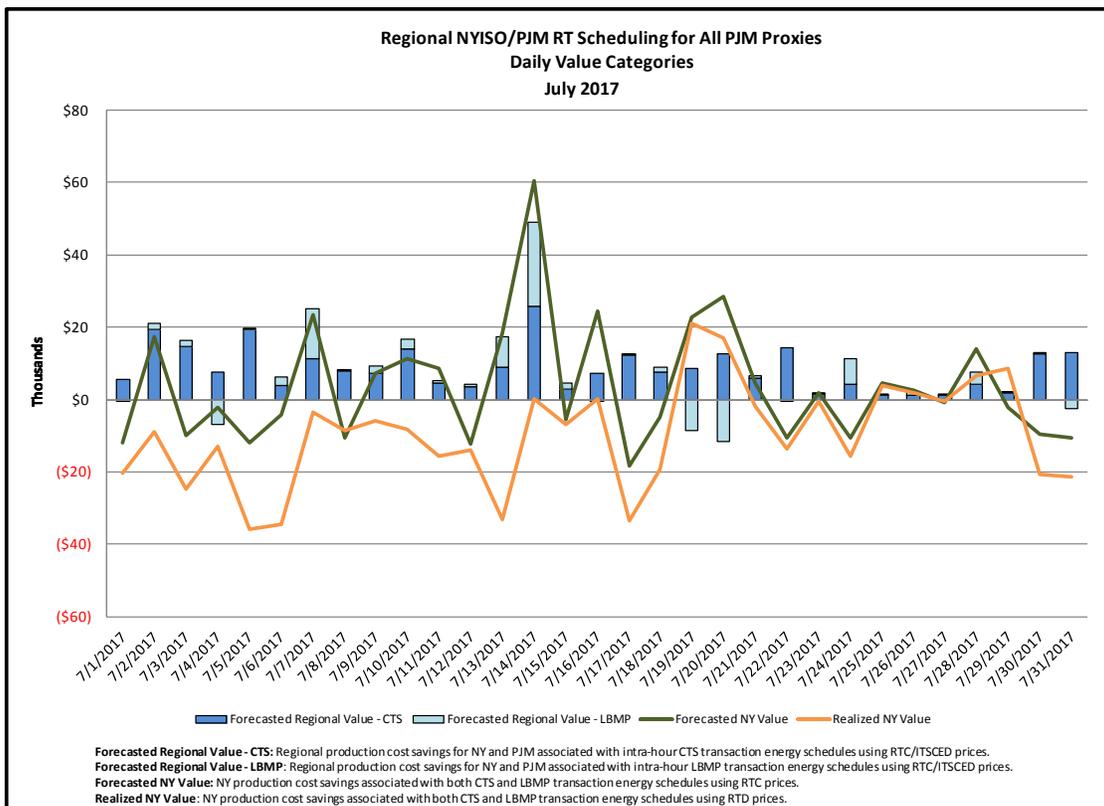
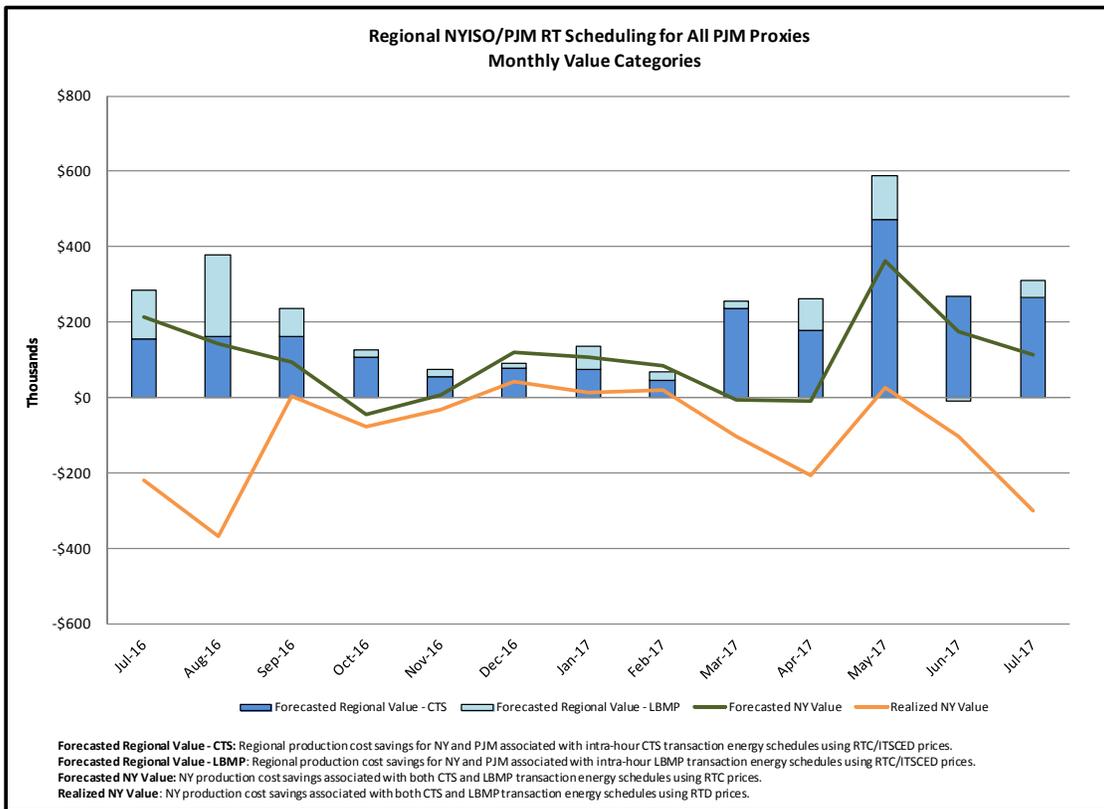
- ISO-NE
 - At NE Sandy Pond, there was an average of 2541 MWs¹ per hour of CTS offers, and an average of 1081 MWs per hour of CTS schedules.
 - Interchange at NE Sandy Pond associated with CTS transactions scheduled only in real-time flowed in the economic direction in 59.5% of the real-time intervals, as compared to all other interchange which flowed in the economic direction in 48.3% of the real-time intervals.

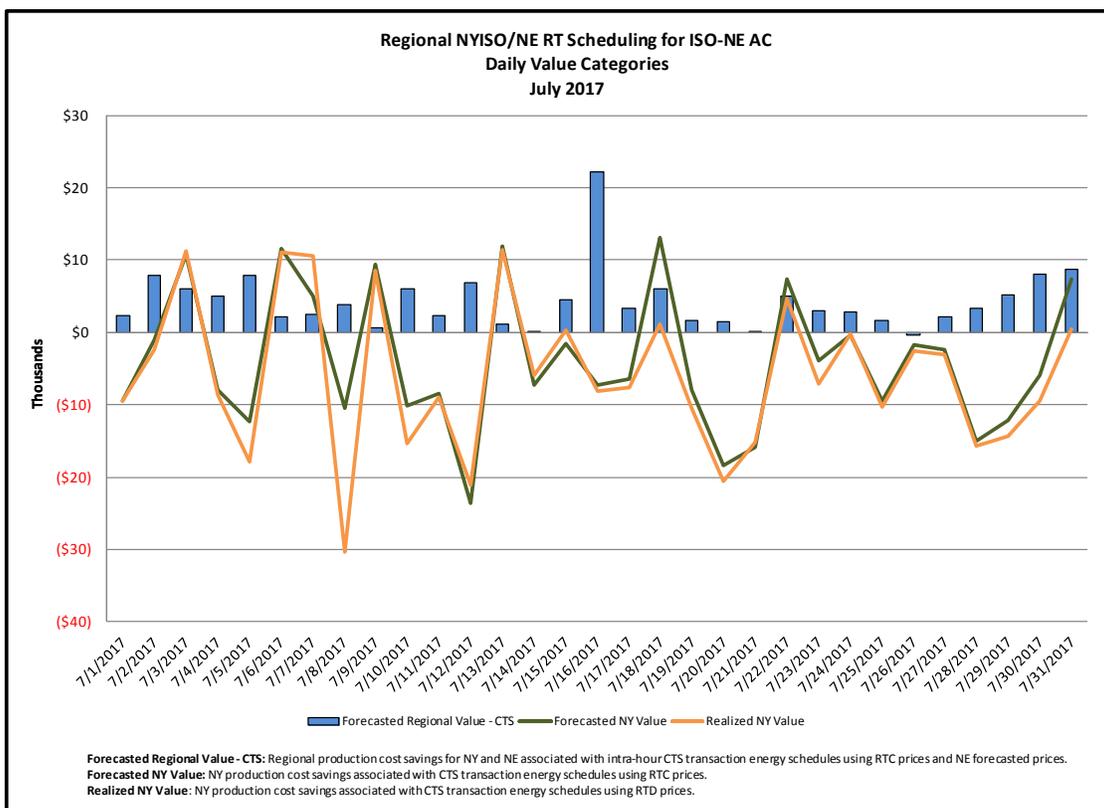
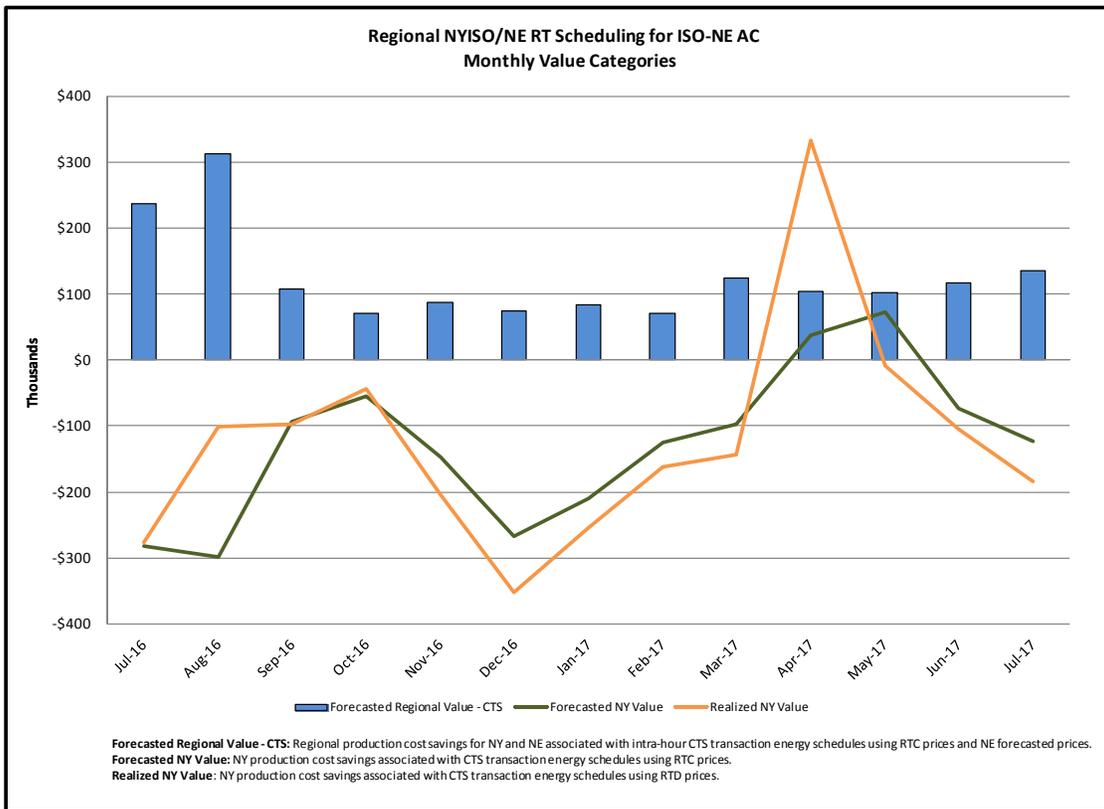
Pricing Data²

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	\$324.15	(\$150.18)	5.1%	5.0%	38.9%	40.1%	4.7%	6.1%
HTP	\$153.15	(\$152.33)	4.4%	5.8%	40.9%	41.0%	4.1%	3.8%
NEPTUNE	\$964.83	(\$77.67)	5.5%	5.9%	37.8%	40.1%	4.9%	5.9%
VFT	\$153.87	(\$150.66)	4.8%	5.7%	40.9%	41.0%	4.0%	3.7%
Sandy Pond	\$47.92	(\$208.31)	4.4%	5.5%	31.1%	49.3%	6.8%	2.9%

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.

