Broader Regional Market Metrics

New York Independent System Operator

June 2015

Prepared by NYISO Operations Regional Market Coordination

Highlights

Regional NYISO/PJM RT Scheduling Monthly Value: $385,238.21[1]
Regional NYISO/PJM RT Scheduling Year-to-Date Value: $ 3,739,023.75

15-Minute Bidding and Scheduling Data[2]

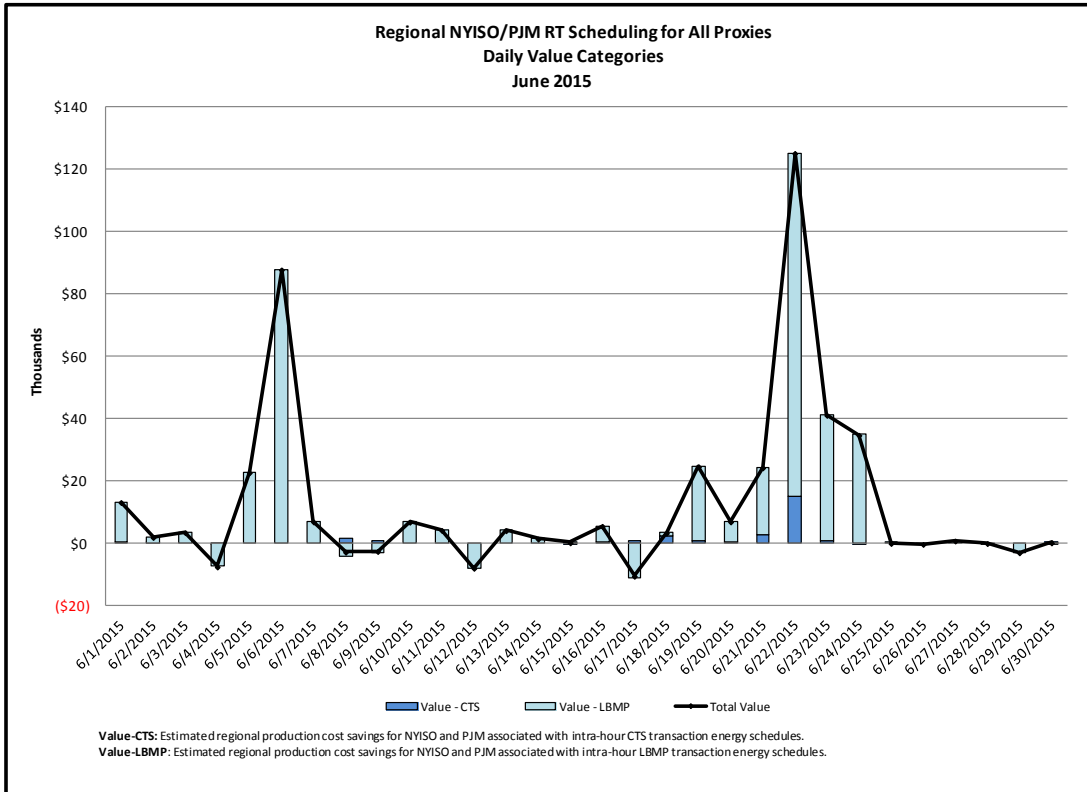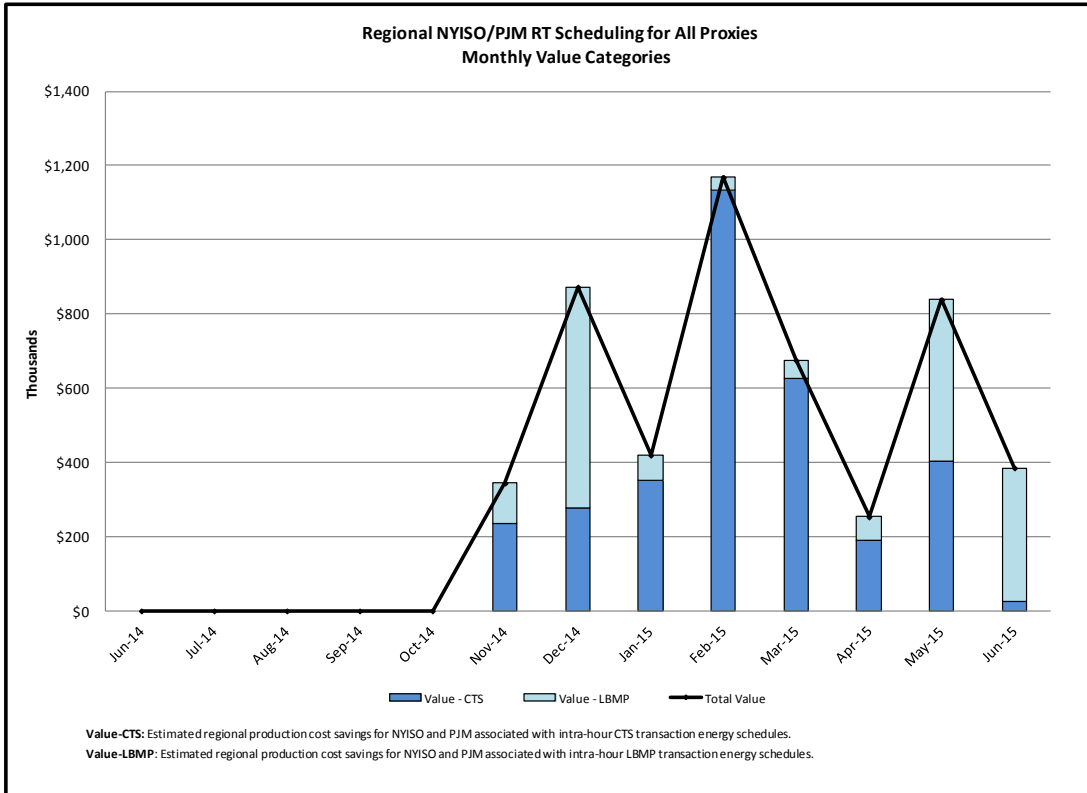| Interface	CTS				LBMP			
	Avg Offered (MW)	Avg Scheduled (MW)	Max Offered (MW)	Max Scheduled (MW)	Avg Offered (MW)	Avg Scheduled (MW)	Max Offered (MW)	Max Scheduled (MW)
Keystone	111	5	345	145	1666	433	3479	2052
All Scheduled Lines	16	3	490	180	900	523	1312	1237

Pricing Data[3]

Interface	Max Forecasted Price Spread	Min Forecasted Price Spread	Forecasted Price Spreads minus Real-time Price Spreads							
			< $-20	$-20 to $-10	$-10 to $-5	$-5 to $0	$0 to $5	$5 to $10	$10 to $20	> $20
Keystone	$988.77	($546.33)	6.6%	7.0%	10.8%	26.1%	27.6%	9.9%	5.2%	6.8%
HTP	$949.10	($543.75)	6.3%	7.1%	11.3%	26.4%	27.8%	10.0%	6.0%	5.1%
NEPTUNE	$980.55	($545.65)	8.1%	6.8%	10.4%	25.0%	26.8%	10.2%	5.9%	6.8%
VFT	$978.62	($541.18)	6.5%	7.0%	11.3%	26.2%	27.7%	10.1%	6.0%	5.1%

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[1] Estimated value at the time interchange schedules are established. See page 4 for details of the calculation.

[2] All MW Values include the absolute sum of both imports + exports. Wheels have been excluded.

[3] "Forecasted Prices" refer to NYISO's RTC LBMP and PJM's ITSCED LMP. "Real-time Prices" refer to NYISO's RTD LBMP and PJM's RTSCED 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 PJM's LMP.

Regional NYISO/PJM RT Scheduling for All Proxies
Monthly Value Categories

Value-CTS: Estimated regional production cost savings for NYISO and PJM associated with intra-hour CTS transaction energy schedules.
Value-LBMP: Estimated regional production cost savings for NYISO and PJM associated with intra-hour LBMP transaction energy schedules.

Regional NYISO/PJM RT Scheduling for All Proxies
Daily Value Categories
June 2015

Value-CTS: Estimated regional production cost savings for NYISO and PJM associated with intra-hour CTS transaction energy schedules.
Value-LBMP: Estimated regional production cost savings for NYISO and PJM associated with intra-hour LBMP transaction energy schedules.

Regional NYISO/PJM RT Scheduling for All Proxies

Category	Description
Value-CTS	Estimated regional production cost savings from the intra-hour (non-TOH) energy schedule changes on CTS bids (Intra-hour CTS Schedule Changes * [NY RTC LBMP - PJM IT SCED LMP]).
Value-LBMP	Estimated regional production cost savings from the intra-hour (non-TOH) energy schedule changes on LBMP bids (Intra-hour LBMP Schedule Changes * [NY RTC LBMP - PJM IT SCED LMP]).

Avg Hourly CTS/LBMP Scheduled vs Non-scheduled - PJM Keystone (Monthly)

Legend: CTS - Scheduled, CTS - Not Scheduled, LBMP - Scheduled, LBMP - Not Scheduled

Avg Hourly CTS/LBMP Scheduled vs Non-scheduled - PJM Keystone (Daily)

Legend: CTS - Scheduled, CTS - Not Scheduled, LBMP - Scheduled, LBMP - Not Scheduled

Avg Hourly CTS/LBMP Scheduled vs Non-scheduled - PJM Scheduled Lines (Monthly)

Avg Hourly CTS/LBMP Scheduled vs Non-scheduled - PJM Scheduled Lines (Daily)

Forecasted Price Spread Distribution (NYISO RTC LBMP minus PJM IT SCED LMP)

Legend: Keystone, HTP, NEPTUNE, VFT

Forecasted Price Spreads minus Real-time Price Spreads - PJM Keystone (Monthly)

Legend: < $-20, $-20 to $-10, $-10 to $0, $0 to $10, $10 to $20, > $20

Forecasted Price Spreads minus Real-time Price Spreads - PJM HTP (Monthly)

Forecasted Price Spreads minus Real-time Price Spreads - PJM Neptune (Monthy)

Forecasted Price Spreads minus Real-time Price Spreads - PJM VFT (Monthly)

Legend: < $-20, $-20 to $-10, $-10 to $0, $0 to $10, $10 to $20, > $20

Net Interchange In Economic Direction (Monthly)

Legend: Keystone, All Scheduled Lines, Keystone (CTS only), All Scheduled Lines (CTS only)

*Note: The % of Real-time intervals where Net Interchange is flowing from the lower priced region to the higher priced region