Broader Regional Market Metrics

New York Independent System Operator

August 2015

Prepared by NYISO Operations Regional Market Coordination

Highlights[1]

Regional NYISO/PJM RT Scheduling Monthly Value: $524,118.61
Regional NYISO/PJM RT Scheduling Year-to-Date Value: $ 4,667,508.02

15-Minute Bidding and Scheduling Data[2]

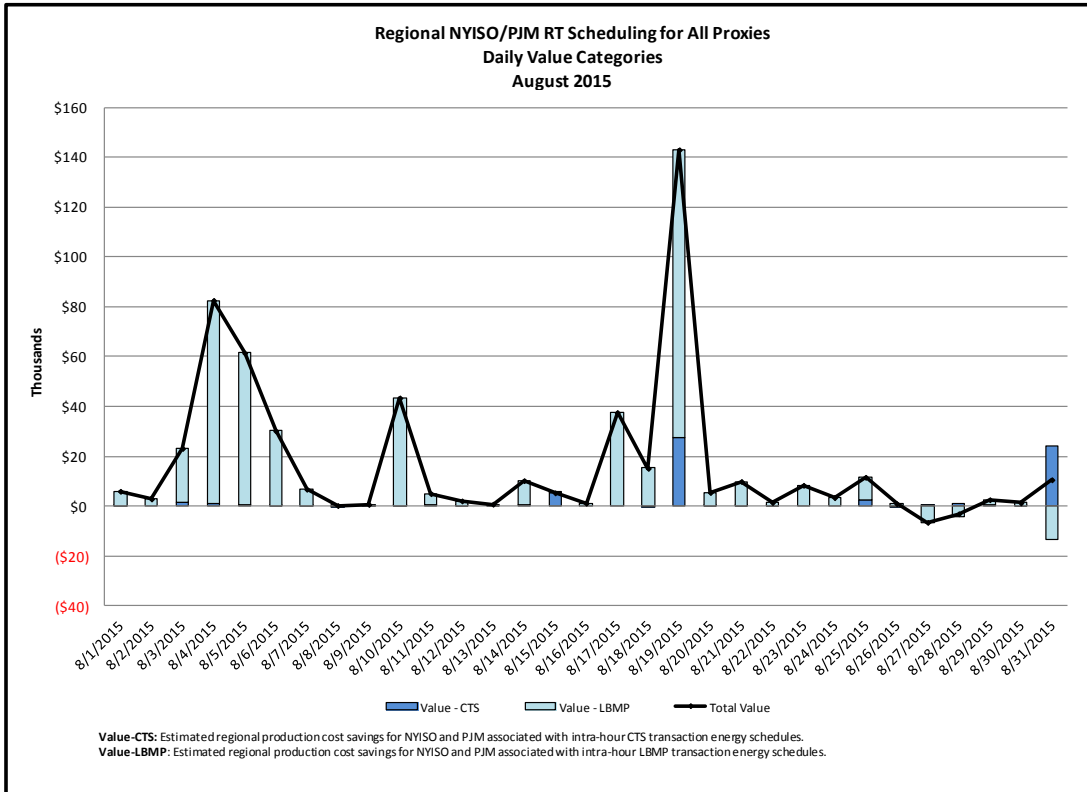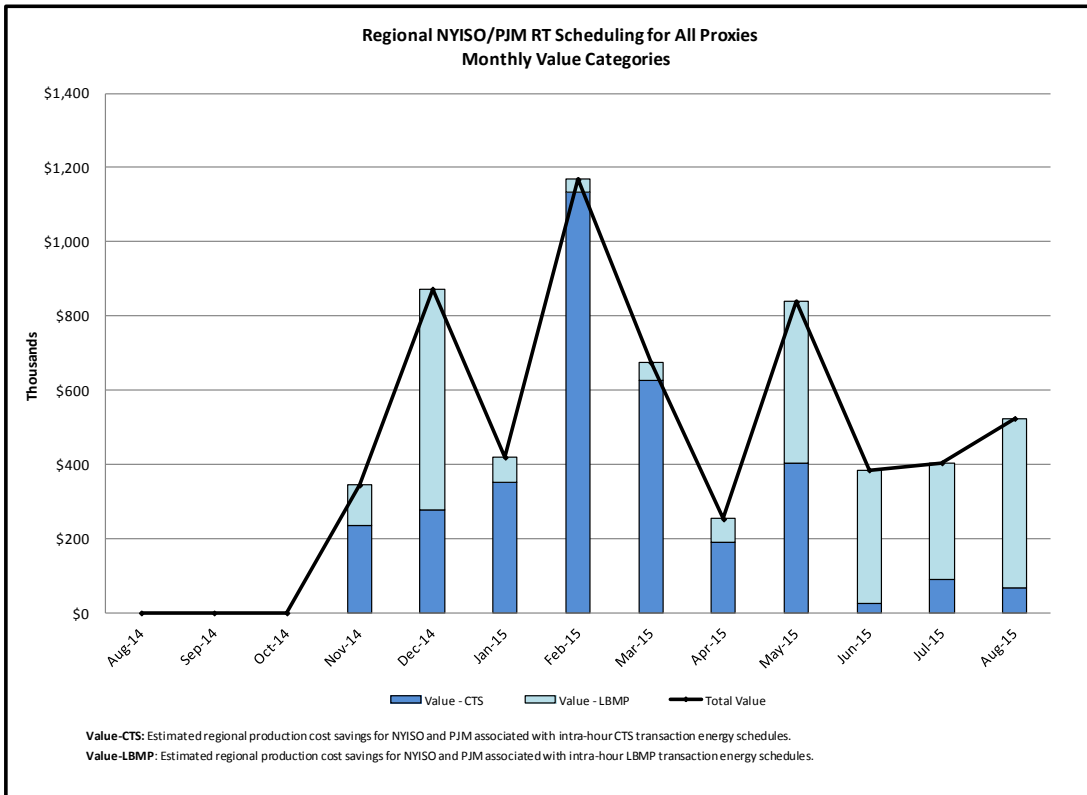| Interface	CTS				LBMP			
	Avg Offered (MW)	Avg Scheduled (MW)	Max Offered (MW)	Max Scheduled (MW)	Avg Offered (MW)	Avg Scheduled (MW)	Max Offered (MW)	Max Scheduled (MW)
Keystone	114	5	258	149	1919	776	4308	2307
All Scheduled Lines	10	1	440	241	1003	751	1753	1559

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	$739.11	($1019.08)	7.6%	7.3%	10.9%	28.6%	26.2%	7.9%	5.2%	6.1%
HTP	$601.56	($1052.26)	7.4%	7.3%	11.4%	28.7%	26.2%	9.1%	5.8%	4.0%
NEPTUNE	$964.73	(1053.41)	8.6%	7.5%	11.2%	26.8%	25.1%	9.1%	6.8%	4.9%
VFT	$599.64	($1113.50)	8.5%	7.5%	11.8%	28.0%	25.8%	9.0%	5.5%	3.9%

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

[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
August 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)

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

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

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

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

Legend: Sum of < $-20 | Sum of $-20 to $-10 | Sum of $-10 to $0 | Sum of $0 to $10 | Sum of $10 to $20 | Sum of > $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