Broader Regional Market Metrics

New York Independent System Operator

March 2015

Prepared by NYISO Operations Regional Market Coordination

Highlights

Regional NYISO/PJM RT Scheduling Monthly Value: $674,813.29
Regional NYISO/PJM RT Scheduling Year-to-Date Value: $2,262,438.81

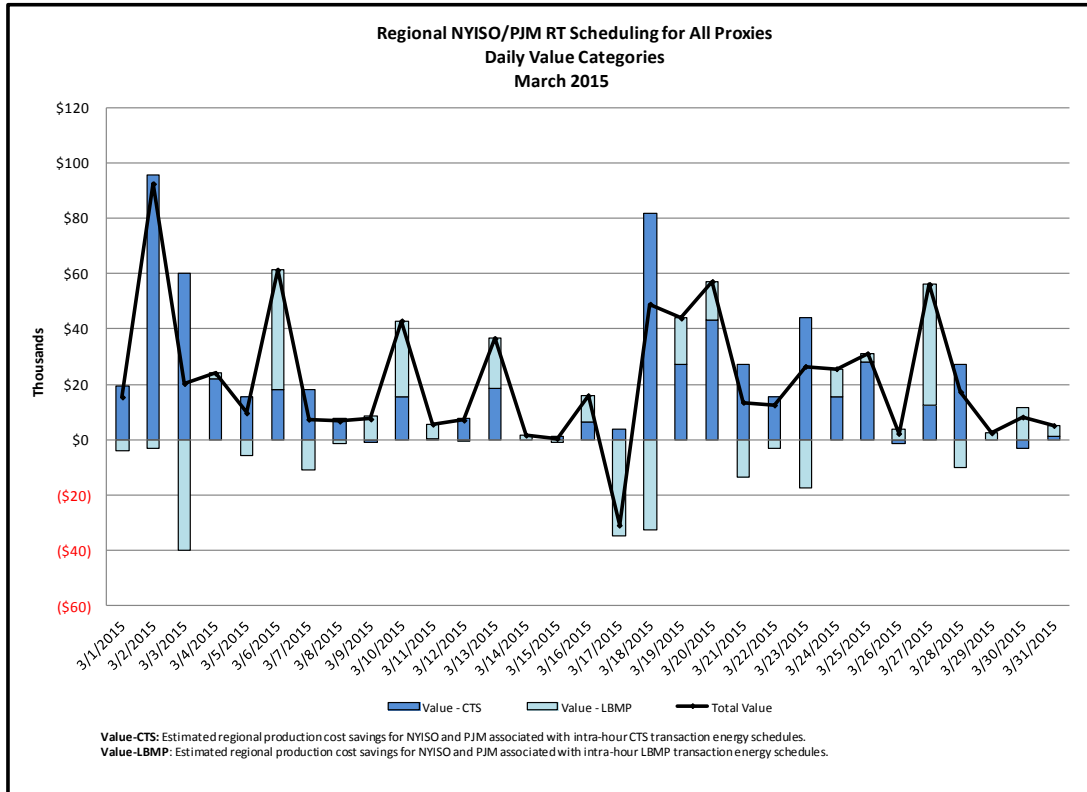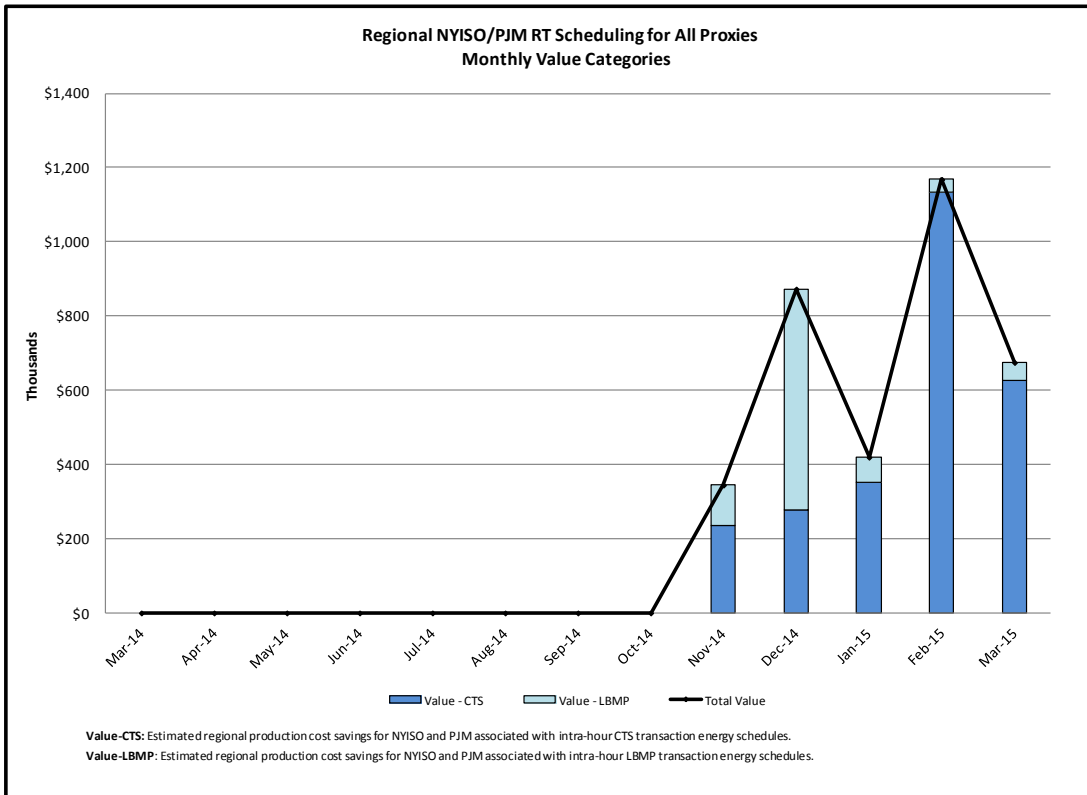## 15-Minute Bidding and Scheduling Data[1]

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	908	55	1351	772	2602	1608	4224	3306
All Scheduled Lines	6	2	50	25	989	852	1460	1435

Pricing Data[2]

Interface	Max Forecasted Price Spread	Min Forecasted Price Spread	Forecasted Price Spreads vs. 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	$314.36	($948.00)	11.8%	6.7%	9.2%	22.7%	19.5%	7.5%	5.7%	16.9%
HTP	$632.28	($1,098.93)	14.2%	6.9%	8.4%	20.1%	17.5%	7.4%	6.4%	19.1%
NEPTUNE	$972.03	($947.81)	13.3%	7.9%	9.5%	21.9%	19.9%	8.5%	7.0%	12.0%
VFT	$200.48	($1,044.53)	14.4%	8.1%	9.6%	21.8%	18.4%	8.0%	6.9%	12.8%

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 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   ■ Value - LBMP   ━ Total Value

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
March 2015

■ Value - CTS   ■ Value - LBMP   ━ Total Value

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)

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

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

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

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

Net Interchange In Economic Direction

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