

Pricing Data Mart for DSS

Business Intelligence (BI)

July 11, 2006

Contents of Presentation

The design of this data mart is still in progress.

The information included in this presentation is for discussion purposes only. The information is still subject to change.

- | |
|--|
| <p>I. Available data sets - list
(by data type)</p> <p>II. Reports
description of report content
fields to be displayed</p> |
|--|

Available Data Sets

DAM	RTC	RTD	RTD TIME WEIGHTED	RTC ADVISORY	DAM CONSTRAINTS
Generator LBMP	Generator LBMP	Generator LBMP	Generator LBMP	Generator LBMP	Facility Name
Generator Cost of Congestion	Generator Cost of Congestion	Generator Cost of Congestion	Generator Cost of Congestion	Generator Cost of Congestion	Facility PTID
Generator Cost of Losses	Generator Cost of Losses	Generator Cost of Losses	Generator Cost of Losses	Generator Cost of Losses	Contingency
Zonal LBMP	Zonal LBMP	Zonal LBMP	Zonal LBMP	Zone LBMP	Constraint cost
Zonal Congestion	Zonal Congestion	Zonal Congestion	Zonal Congestion	Zone Cost of Congestion	RTD CONSTRAINTS
Zonal Losses	Zonal Losses	Zonal Losses	Zonal Losses	Zone Cost of Losses	Facility Name
Regulation	Regulation	Regulation	Regulation	Regulation	Facility PTID
East 10 Min Non Sync	East 10 Min Non Sync	East 10 Min Non Sync	East 10 Min Non Sync	East 10 Min Non Sync	Contingency
East 10 Min Sync	East 10 Min Sync	East 10 Min Sync	East 10 Min Sync	East 10 Min Sync	Constraint cost
East 30 Min Non Sync	East 30 Min Non Sync	East 30 Min Non Sync	East 30 Min Non Sync	East 30 Min Non Sync	RT INTERFACE FLOW
West 10 Min Non Sync	West 10 Min Non Sync	West 10 Min Non Sync	West 10 Min Non Sync	West 10 Min Non Sync	Interface Name
West 10 Min Sync	West 10 Min Sync	West 10 Min Sync	West 10 Min Sync	West 10 Min Sync	Interface PTID
West 30 Min Non Sync	West 30 Min Non Sync	West 30 Min Non Sync	West 30 Min Non Sync	West 30 Min Non Sync	Flow
HUB LBMP	HUB LBMP	Real Time Actual Load			Positive Limit
HUB Cost of Congestion	HUB Cost of Congestion				Negative Limit
HUB Cost of Losses	HUB Cost of Losses				
DAM Forecast Load					

Reports

Day-Ahead Market - Generator Pricing By Zone

This report will display an entire day(s) worth of gen LBMP sectioned by zone. The user will be prompted for the date, generator(s) and zone(s) they wish to see displayed.

Time Stamp	Zone Name	Zone PTID	LBMP (\$/MWhr)	Losses	Congestion (\$/MWH)
MM/DD/YYYY HR24:MI		#####	#####.##	#####.##	#####.##

DAM & Real Time Zonal Load vs Zonal Prices.

This report shows the variance of the Real Time LBMP and Load compared to the DAM LBMP and Load. The difference is represented in the form of a +/- percentage using the formula (DAM/RT) * 100

Eastern Start Hour

Eastern Start Day	Zone Name	DAM LBMP	RTD TWI LBMP	PRICE Difference	DAM FORECAST MW	RT TWI ACTUAL MW	MW Difference
MM/DD/YY		#####.##	#####.##	###%	#####.#####	#####.#####	###%

Reports

Real Time Zonal Pricing & Real Time Constraints

This report provides the RTD Zonal LBMP along side the Constraints for each given RTD dispatch. The constraints are displayed in a separate table beside the LBMP

Time Stamp	Zone	Zone ID	LBMP	Losses	Congestion	Time Stamp	Limiting Facility	Contingency	Constraint Cost(\$)
MM/DD/YYYY HH24:MI		###	####.##	####.##	####.##	HH24:MI			####.##

Average Daily Zonal on Peak Prices

This report provides the average daily zonal on peak prices.

Zone	Zone ID	LBMP	Losses	Congestion
	###	####.##	####.##	####.##

Reports

Generator LBMP Prices Across Markets

This report compiles all three market prices, DAM, RTC and RTD for each Generator and displays them together. All time stamps are in Eastern Interval Begin.

DATE	Hour	DAM LBMP	RTC Interval	RTC LBMP (\$/MWhr)	RTD Interval (\$/MWhr)	RTD LBMP
MM/DD/YYYY	HR24	####.##	MI	####.##	MI	####.##

Zonal Prices across Markets

This report compiles all three market prices, DAM, RTC and RTD for each Zone and displays them together. All time stamps are in Eastern Interval Begin.

DATE	Hour	DAM LBMP	RTC Interval	RTC LBMP (\$/MWhr)	RTD Interval (\$/MWhr)	RTD LBMP
MM/DD/YYYY	HR24	####.##	MI	####.##	MI	####.##

Reports

OASIS Real time Time Weighted Integrated LBMP - GEN

This report will display an entire days worth of RT time weighted integrated generator lbmps for all gens. The time stamp will be in eastern HB.

Time Stamp	Name	PTID	LBMP (\$/MWHr)	Marginal Cost Losses (\$/MWHr)	Marginal Cost Congestion
MM/DD/YYYY HR24		####	####.##	####.##	####.##

OASIS Day-Ahead Market - Zonal

This report will display an entire days worth of zonal lbmps for all zones. The time stamp will be in eastern HB.

Time Stamp	Name	PTID	LBMP (\$/MWHr)	Marginal Cost Losses (\$/MWHr)	Marginal Cost Congestion
MM/DD/YYYY HR24		####	####.##	####.##	####.##

Reports

Generator Advisory LBMP

This report will display a given interval and all advisory prices created by that interval for each generator. The "forecast" time is displayed in the first column.

RTC Run Time 7/10/2006 12:15:00 AM					
Operating Interval	Gen PTID	LBMP	Marginal Cost Losses	Marginal Cost Congestion	
MM/DD/YYYY HR24:MI		####.##	####.##	####.##	
7/10/2006 0:15	24138	42.68	2.79	0	
7/10/2006 0:30	24138	55.58	2.6	-16.32	
7/10/2006 0:45	24138	37.83	2.51	0	
7/10/2006 1:00	24138	43.92	2.87	0	
7/10/2006 1:15	24138	36.16	2.33	0	
7/10/2006 1:30	24138	25.26	1.59	0	
7/10/2006 1:45	24138	33.11	1.99	0	
7/10/2006 2:00	24138	37.89	2.35	0	
7/10/2006 2:15	24138	35.98	2.2	0	

Reports

Generator 4runner Advisory LBMP

This report will display a given interval and all advisory prices created by previous intervals for the operating interval for each generator. The interval the 4runner was created in is displayed in the first column.

RTC Operating Interval :7/10/2006 1:30:00 PM

RTC Run Time	PTID	LBMP	Marginal Cost L	Marginal Cost Congestion
MM/DD/YYYY HR24:MI		####.##	####.##	####.##
7/10/2006 11:00	24138	77.01	4.48	-17.46
7/10/2006 11:15	24138	66.03	4.53	-18.05
7/10/2006 11:30	24138	73.24	4.71	-15.41
7/10/2006 11:45	24138	65.88	4.92	-13.67
7/10/2006 12:00	24138	68.43	3.96	-23.33
7/10/2006 12:15	24138	74.09	4.33	-19.41
7/10/2006 12:30	24138	74.07	4.65	-15.67
7/10/2006 12:45	24138	73.68	5.08	-11.06
7/10/2006 13:00	24138	73.83	5.16	-12.46
7/10/2006 13:15	24138	71.78	5.24	-11.89
7/10/2006 13:30	24138	71.88	5.75	-6.13