

# MARKET MONITORING PRELIMINARY DEMAND SIDE REVIEW

DSR WG Meeting December 20, 2002 Joseph E. Bowring Manager PJM Market Monitoring Unit



## **DSM** Review

- Performance
  - Emergency
  - ALM
  - Economic
- Issues
  - Timing of implementation of Emergency and ALM
  - Impact of programs on markets
  - Cost effectiveness of programs
  - Impact of program design on relative shares of Economic, Emergency and ALM



#### **Emergency Program**

		date			
hour	Data	7/3/2002	7/29/2002	8/14/2002	Grand Total
12	Reductions (MW)	11.54			11.54
	Credits	\$5,896.39			\$5,896.39
	Average LMP	\$115.89			\$115.89
13	Reductions (MW)	39.16			39.16
	Credits	\$20,304.37			\$20,304.37
	Average LMP	\$66.55			\$66.55
14	Reductions (MW)	65.61			65.61
	Credits	\$33,909.10			\$33,909.10
	Average LMP	\$132.29			\$132.29
15	Reductions (MW)	74.91			74.91
	Credits	\$38,735.33			\$38,735.33
	Average LMP	\$101.47			\$101.47
16	Reductions (MW)	70.46	17.80	25.50	113.76
	Credits	\$36,426.15	\$9,034.12	\$12,942.14	\$58,402.41
	Average LMP	\$68.71	\$499.03	\$92.16	\$219.96
17	Reductions (MW)	76.28	34.30	41.60	152.18
	Credits	\$39,559.60	\$17,408.45	\$21,113.46	\$78,081.51
	Average LMP	\$114.99	\$221.47	\$64.26	\$133.57
18	Reductions (MW)	3.38	20.25	43.30	66.93
	Credits	\$1,748.95	\$10,277.58	\$21,976.27	\$34,002.80
	Average LMP	\$153.09	\$137.85	\$48.60	\$113.18
19	Reductions (MW)			26.45	26.45
	Credits			\$13,424.30	\$13,424.30
	Average LMP			\$38.66	\$38.66
Total Reductions (MW)		341.34	72.35	136.85	550.54
Total Credits		\$176,579.89	\$36,720.15	\$69,456.17	\$282,756.21
Total Average LMP		\$107.57	\$286.11	\$60.92	\$132.50



#### **Emergency Program**

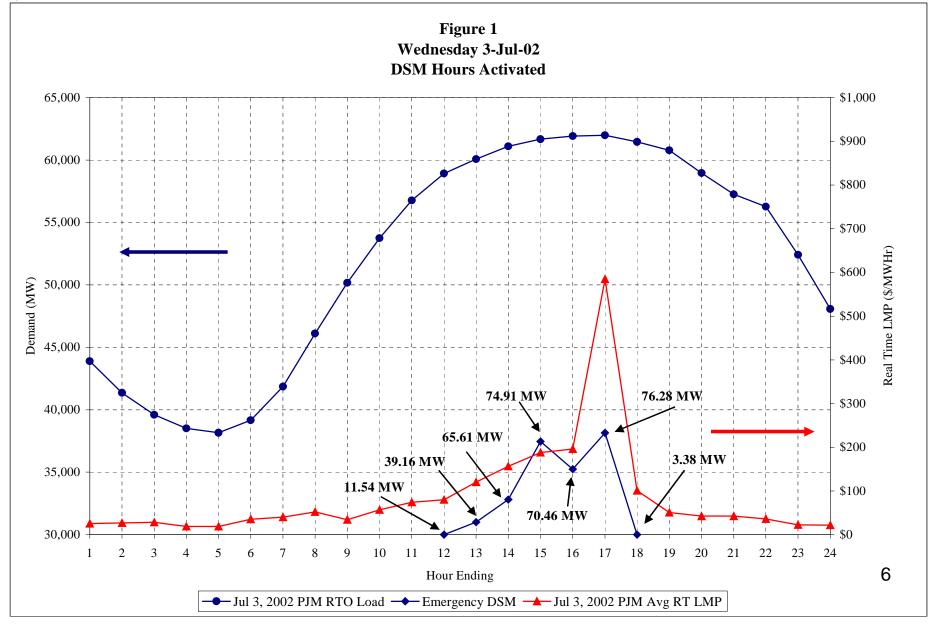
	Date			
Data	7/3/2002	7/29/2002	8/14/2002	
<b>Maximum Reduction (MW)</b>	50.46	34.30	43.30	
<b>Average Payment/MW</b>	\$517.31	\$507.53	\$507.53	



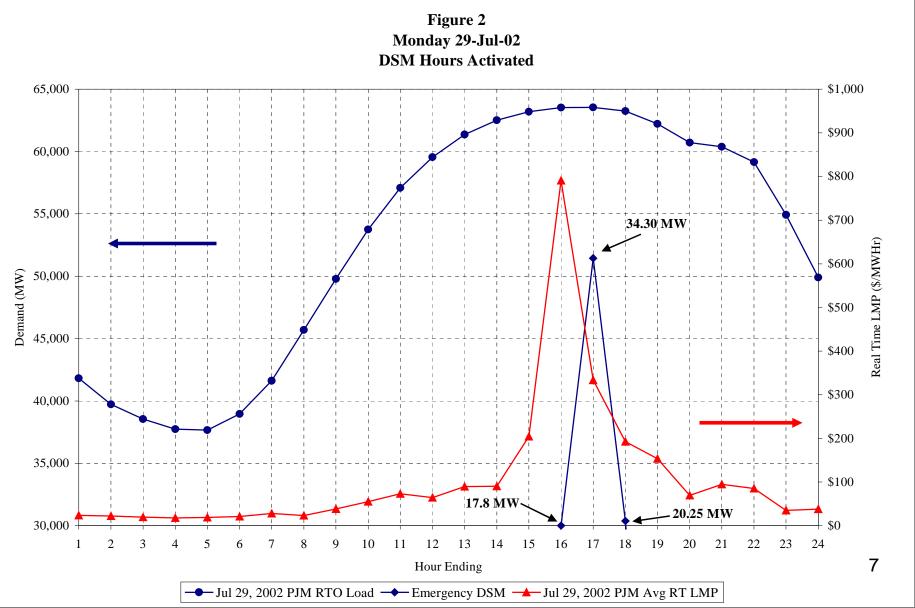
- Graphs compare:
  - PJM load by hour
  - PJM average LMP by hour
  - Emergency program reductions by hour
- Emergency program reductions on graphs:
  - Are not to scale
  - Show actual hours of implementation
  - MW reductions are labeled



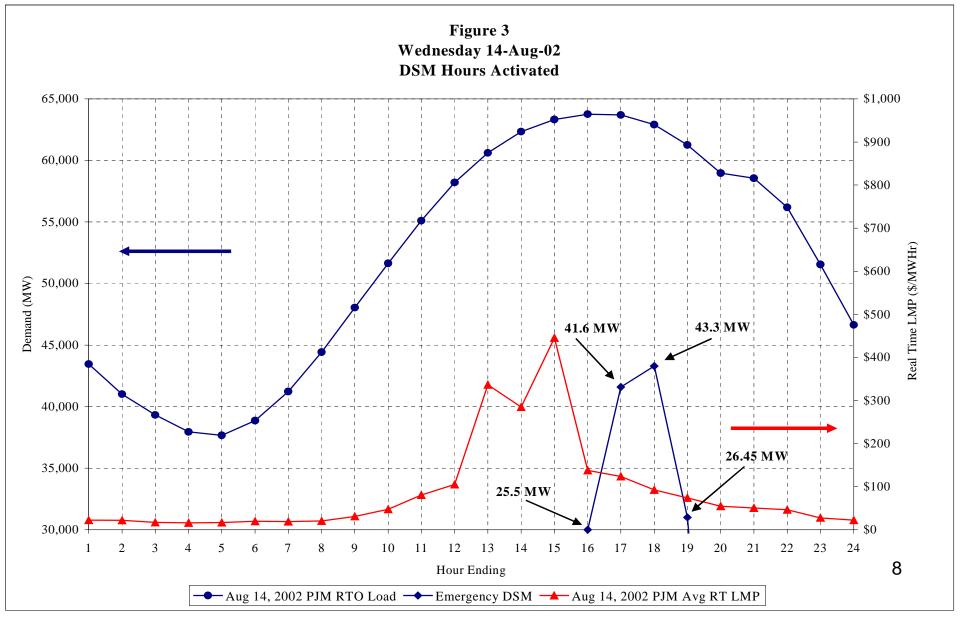
#### **Emergency Program**







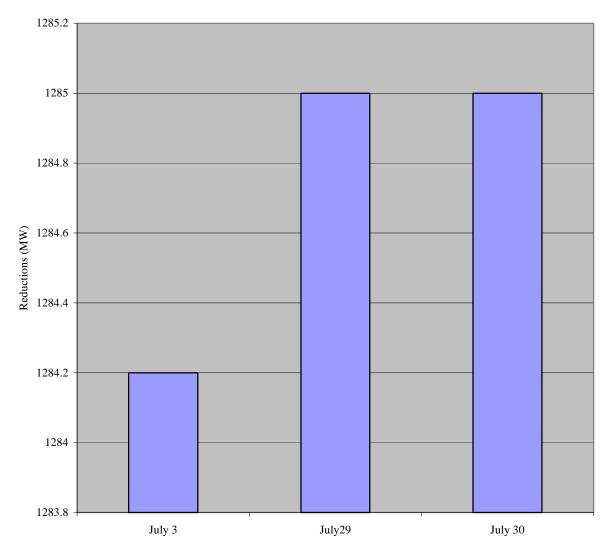






#### ALM

#### ALM Reductions 2002



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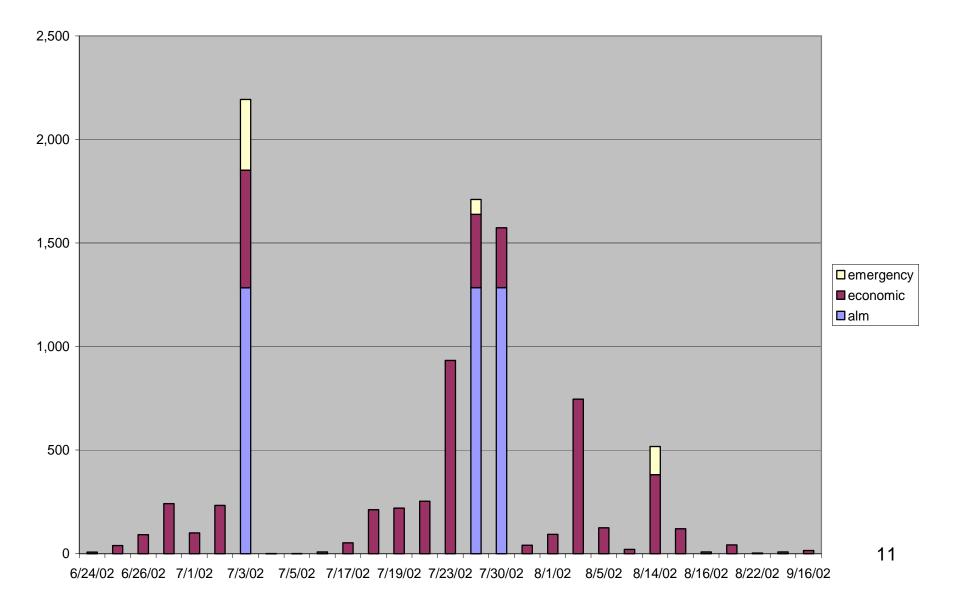
**Economic Program** 

Total Reductions (MW)	6462.09
Total Payments	\$761,977.39
Average LMP	\$118.12
Average Payment/MW	\$117.92



## **Program Comparison**

**Reductions by Program** 



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