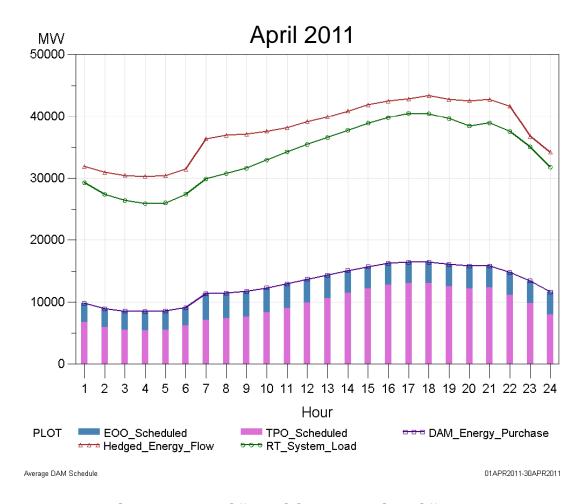


Wholesale Market Operations Update

John Dumas
Director Wholesale Market Operations

ERCOT Board Meeting May 17, 2011

Day-Ahead Schedule



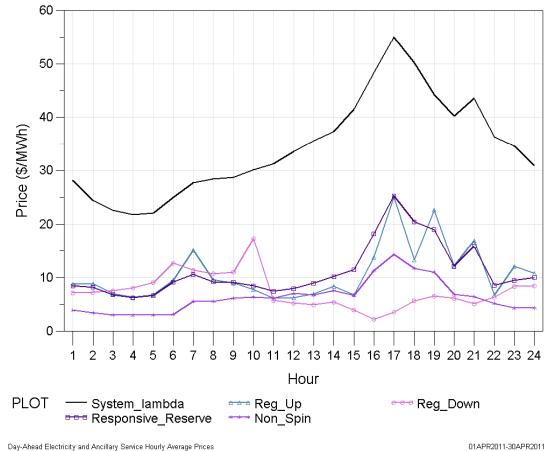
- Hedged Energy exceeded the day ahead load forecast on average for all 24 hours
- Indicating a conservative approach

Acronym: TPO - Three Part Offer; EOO – Energy Only Offer; Hedged Energy = Energy purchased /sold in Day-Ahead Market plus Point –to-Point Obligations and Options carried forward to real-time.



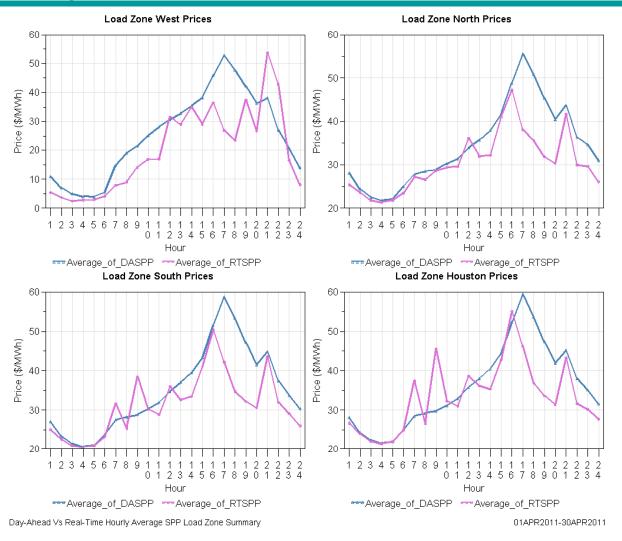
Day-Ahead Electricity And Ancillary Service Hourly Average **Prices**

April 2011



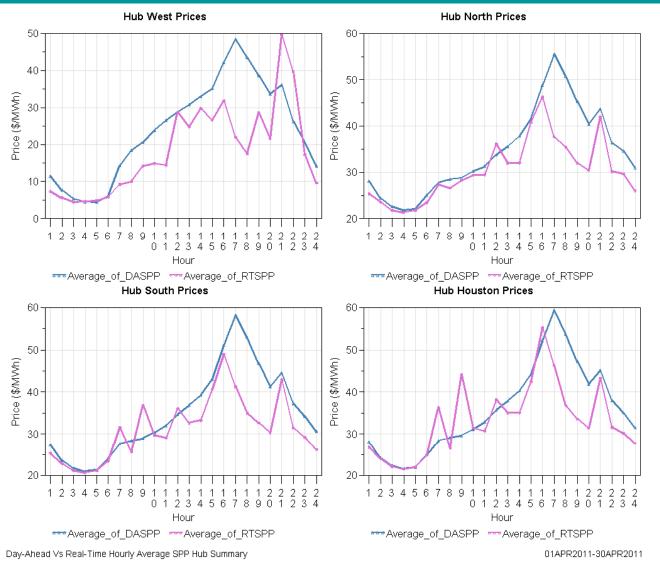
 Both Energy and AS prices followed the trend of load profile on average.

Day-Ahead Vs Real-Time Load Zone SPP (Hourly Average)



• SPPs in all four zones were very close, indicating another mild month for load.

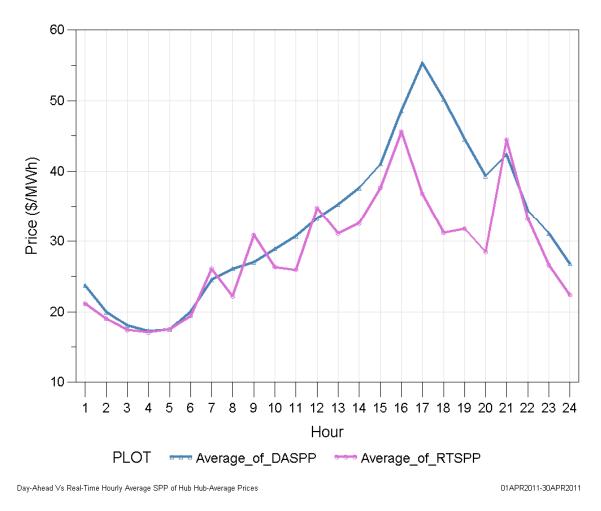
Day-Ahead vs Real-Time HUB SPP (Hourly Average)



HUB SPPs in all four hubs were very close, with SPPs in Hub West slightly lower



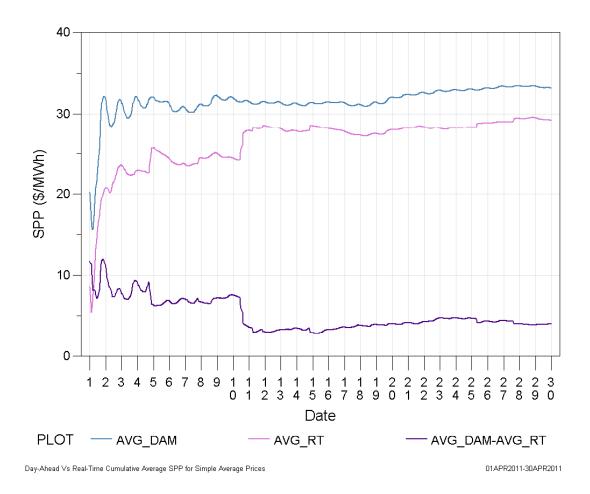
Day-Ahead Vs Real-Time Hub Average SPP (Hourly Average)



6

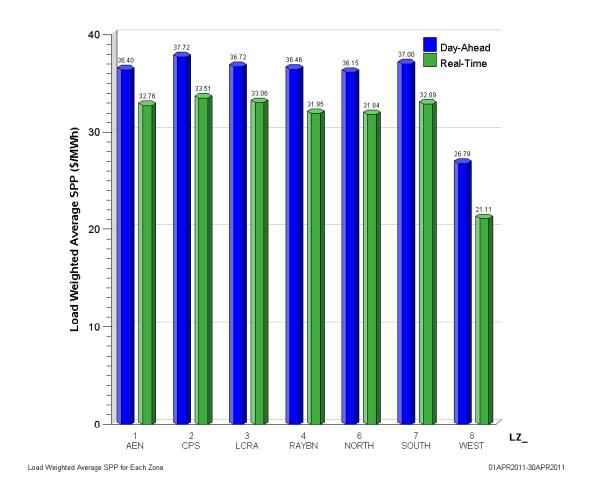
- Day Ahead prices are on average slightly higher than real-time prices
- Real-Time prices are dependent on real-time ramp rate capability

Day-Ahead Vs Real-Time Cumulative Average SPP



• Overall the difference between Day Ahead prices and Real Time prices was slightly higher in April than previous months.

Load Weighted Average SPP

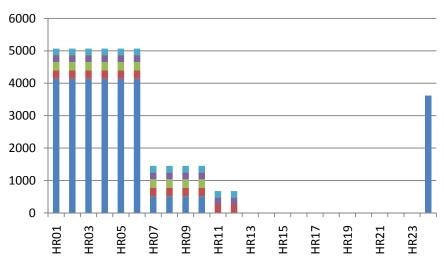


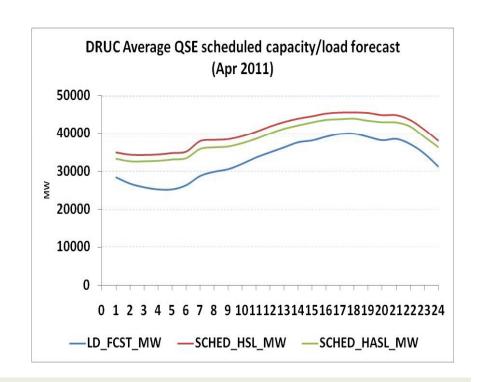
• The load weighted average RT SPPs were slightly lower than the load weighted average DAM SPPs, which indicates a conservative approach.

DRUC

- 30 executions (none miss, 4 published after 1600; 0 published after 1800)
- 13 min average execution time
- Resource commit/decommit
 - 41181 MWh committed (5 resources for 105 hours)
 - no DRUC de-commitment

Net committed capacity in DRUC (Apr 2011)

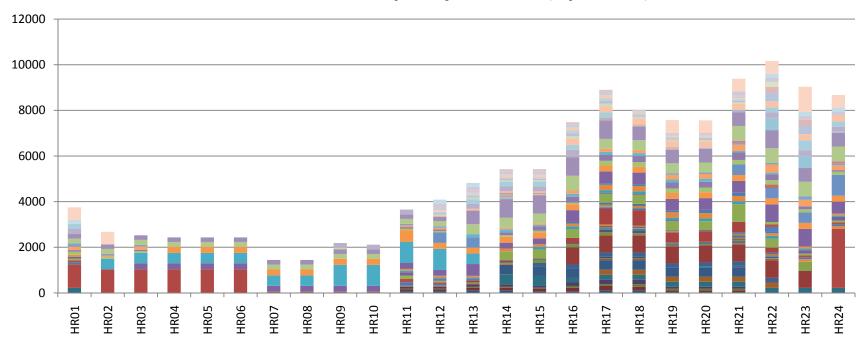




HRUC

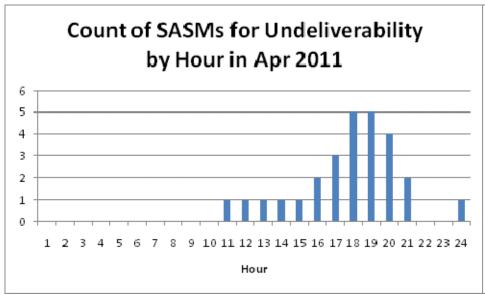
- 718 executions (2 missed)
- 12.24 minutes average execution time
- Resource commit/decommit
 - no HRUC de-commitment

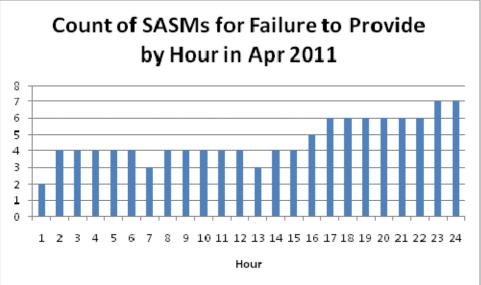
Net committed capacity in HRUC (Apr 2011)



Supplemental Ancillary Service Market (SASM)

- 18 SASMs were run in April,2011
 - 7 for undeliverable AS
 - 11 for AS failure to provide





CRR Price Convergence

	April 2011	March 2011	February 2011	January 2011
Net Amount Paid for CRRs (Cost)	Update with final numbers from settlements	\$20.2M	\$15.0M	\$16.4M
Net Amount Paid to Account Holders for TCRs/CRRs (Value)		\$19.6M	\$80.2M	\$17.8M
Convergence (Value/Cost)		96.8%	534%	109%

Nodal Market Challenges after Five Months of Operation

CRR Market Shortfall

- Reviewing the impact of different factors that could cause shortfall
- Meetings with Market Participants to discuss the effectiveness and possible improvements of the outages submission process

Pricing of De-energized Resource Nodes

Affected intervals will be resettled

Oscillation of West to North Constraint

Submitted urgent NPRR 352 which was approved by TAC

Settlement Points may be incorrect related to certain PTP scenarios

- Under certain scenarios, the post processing of some Settlement Points may be incorrect. The scenario is related to a single PTP between an energized and a de-energized Settlement Point and there is no other PTP at the energized Settlement Point then the energized Settlement Point may have a wrong price.
 - DAM MW awards are correct
 - Implemented a fix
 - Current estimated impact is approximately \$384,000



CRR Market Shortfall

