

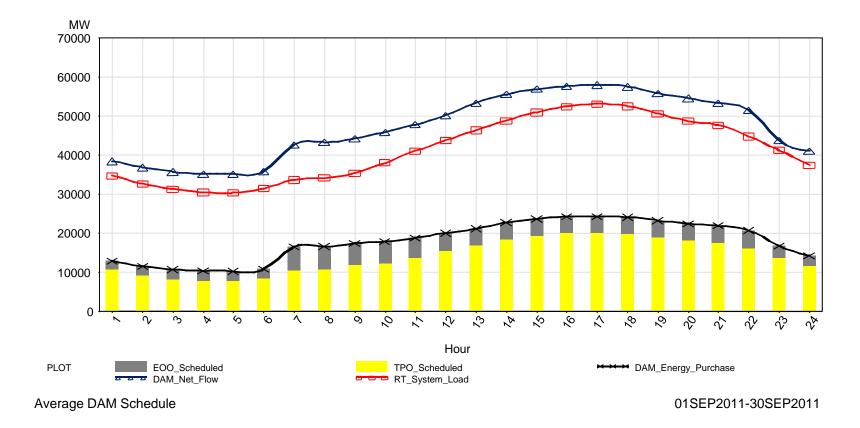
Wholesale Market Operations Update

John Dumas
Director Wholesale Market Operations

Board of Directors Meeting October 18, 2011

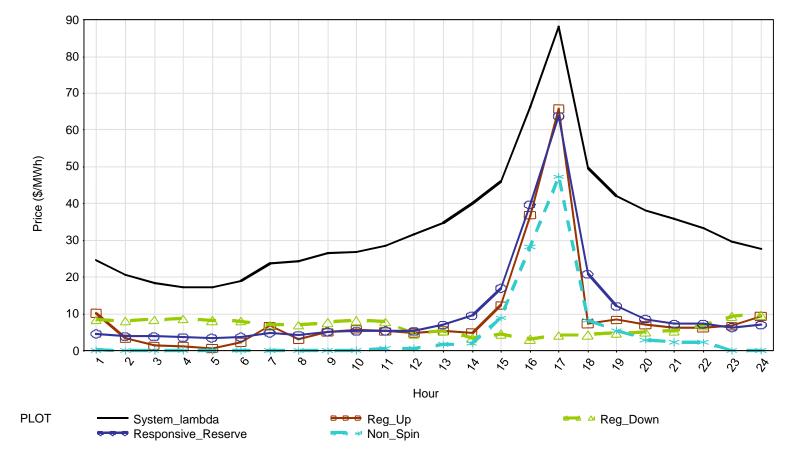
Day-Ahead Schedule

 On average the DAM net transmission flow (defined below) was greater than the realtime system load for all 24 hours



Acronym: TPO - Three Part Offer; EOO – Energy Only Offer; DAM_Net_Flow = Combined market transmission flow of Energy purchased/sold in Day-Ahead Market plus Point-to-Point Obligations and NOIE CRR Options carried forward to real-time.

Day-Ahead Electricity And Ancillary Service Hourly Average Prices

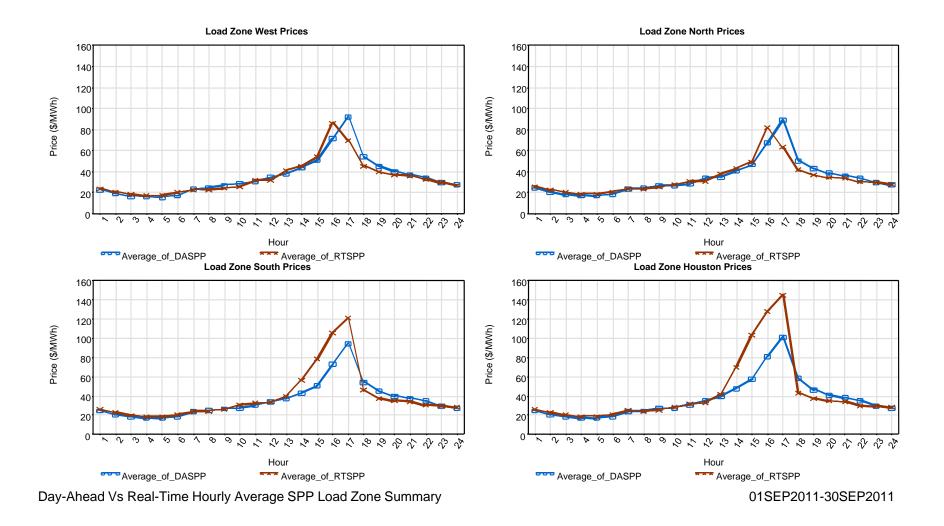


Day-Ahead Electricity and Ancillary Service Hourly Average Prices

01SEP2011-30SEP2011

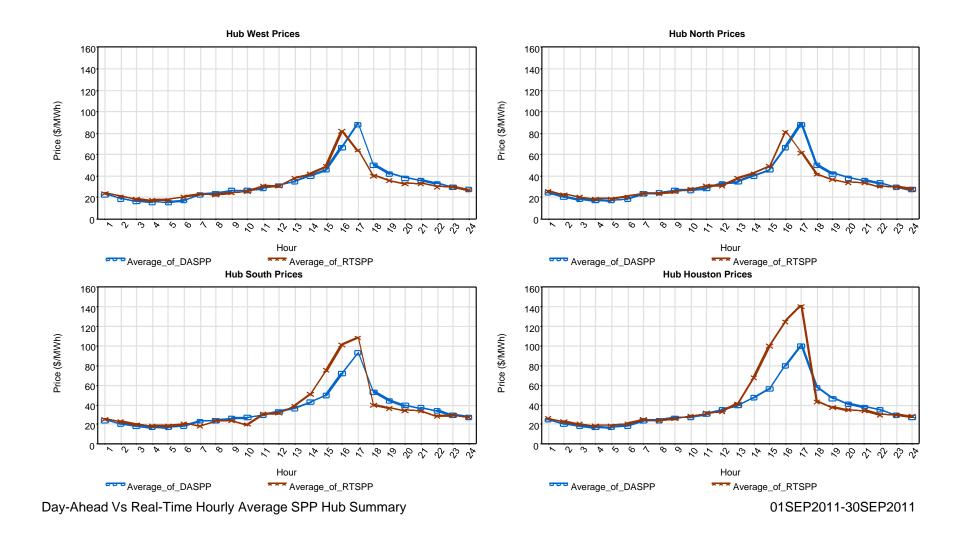
- Both Energy and AS prices followed the trend of load profile on average.
- In some hours, Responsive Reserve prices were higher than Regulation Up prices.

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



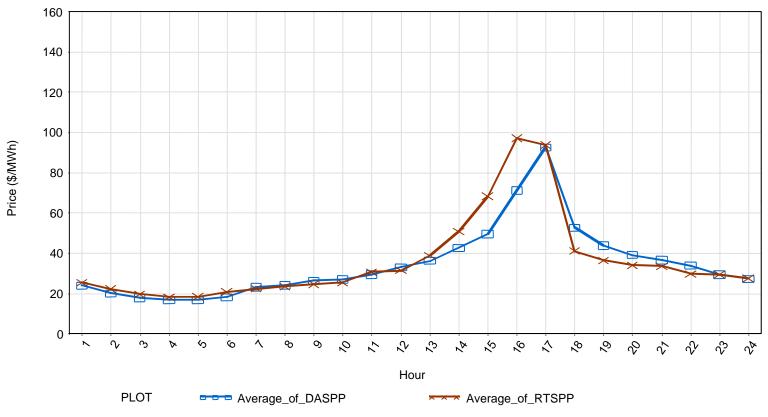


Day-Ahead vs Real-Time HUB SPP (Hourly Average)





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



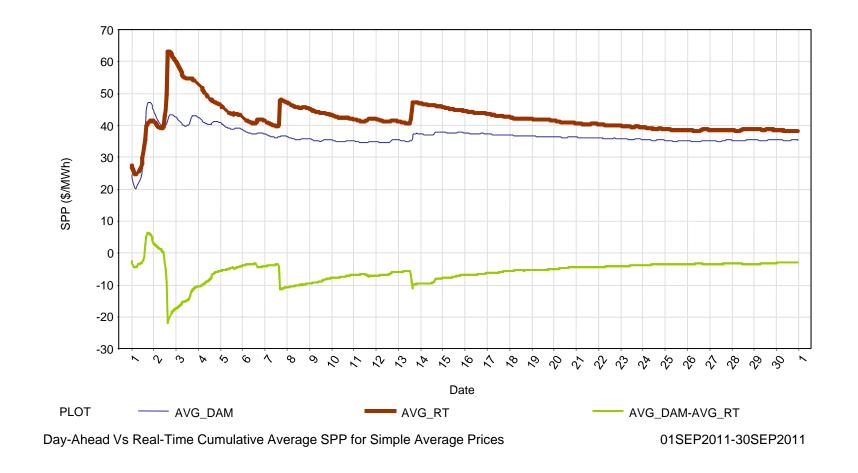
Day-Ahead Vs Real-Time Hourly Average SPP of Hub Hub-Average Prices

01SEP2011-30SEP2011

- Day Ahead prices were close to real-time prices, especially during off-peak hours.
- Real-Time prices were on average higher than Day Ahead prices for some peak hours.

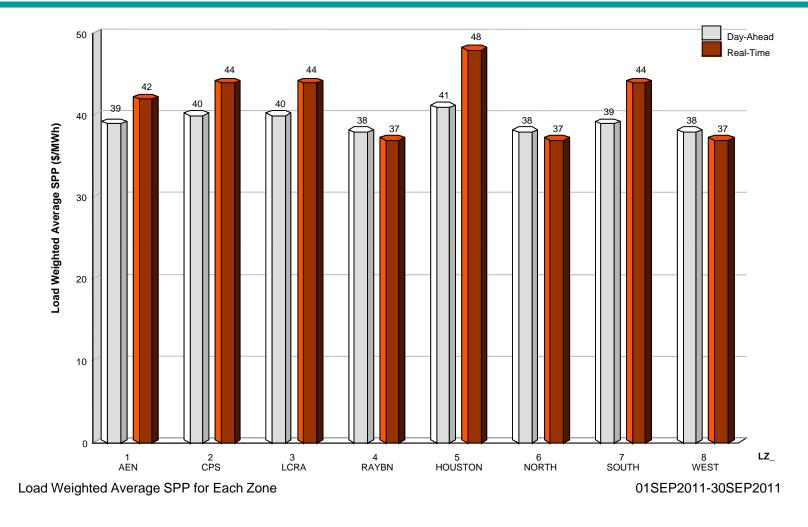


Day-Ahead Vs Real-Time Cumulative Average SPP



• The cumulative Real Time prices were typically higher than the Day-Ahead prices in September but the difference was decreasing over the month

Load Weighted Average SPP



• The load weighted average RT SPPs were slightly higher than the load weighted average DAM SPPs in 5 load zones and lower in the other 3 load zones.

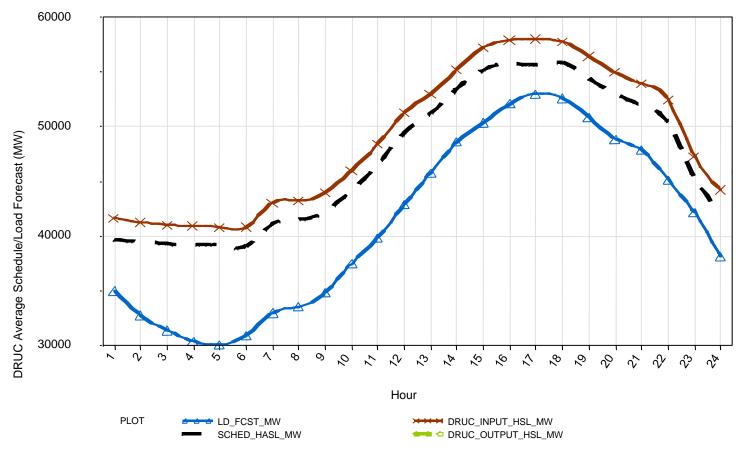
DRUC Monthly Summary



10.9-Min Average Execution Time

3 Published after 1600, 0 Published after 1800

0 MWh Committed (0 Resources for 0 Hours)



DRUC Average QSE Scheduled Capacity/Load Forecast

01SEP2011-30SEP2011

DRUC didn't commit any Resource and hence input and output HSL MW is the same

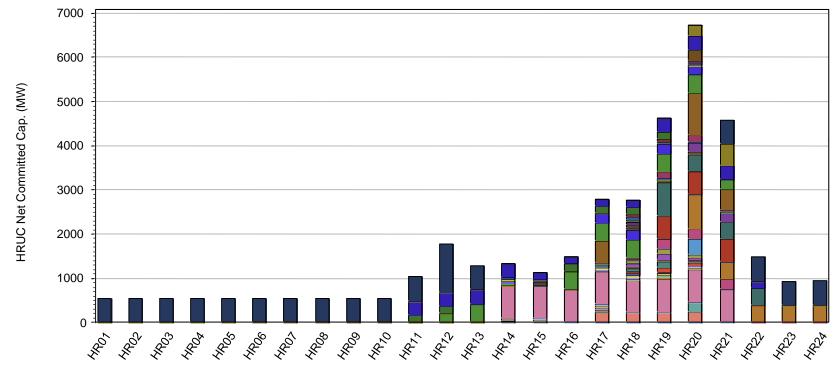


HRUC Monthly Summary

720 Executions (0 Missed)

12.2-Min Average Execution Time

Note: Colors Indicate Individual Resources



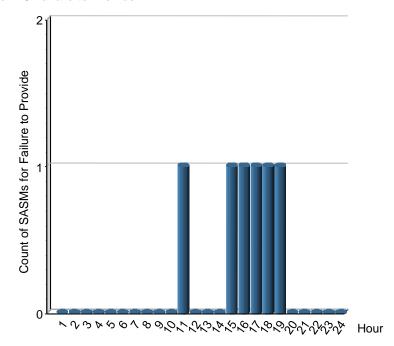
Net Committed Capacity in HRUC

01SEP2011-30SEP2011



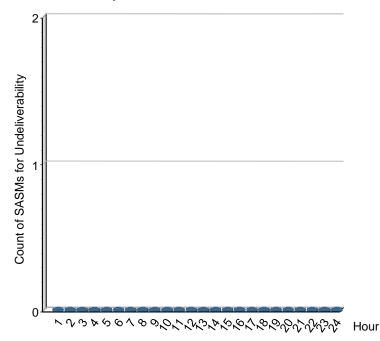
Supplemental Ancillary Service Market (SASM) Summary

2 SASMs in 01SEP2011-30SEP2011 For AS Failure to Provide



Count of SASMs for Failure to Provide by Hour

0 SASMs in 01SEP2011-30SEP2011 For AS Undeliverability

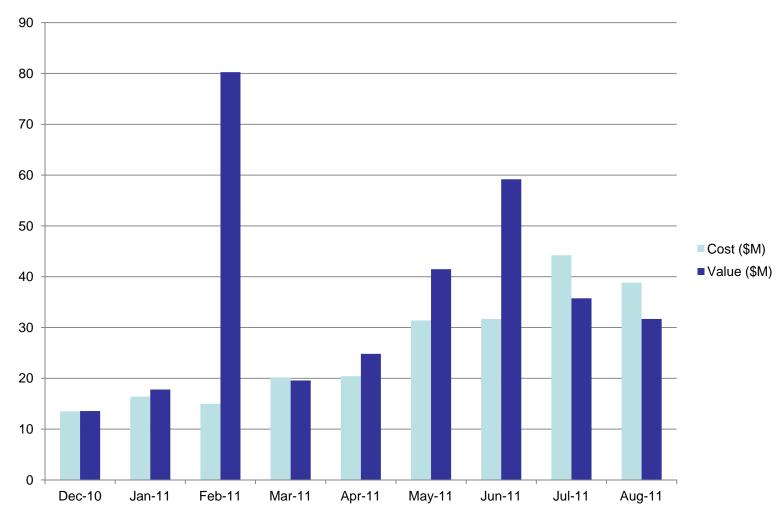


Count of SASMs for Undeliverability by Hour

CRR Auction for Operating Month October 2011

- 137,672 Bids/Offers
- 11,298 Auction Awards
 - 135,767.6 MW
 - 49,501.2 Peak WD
 - 44,129.2 Peak WE
 - 42,137.2 Off-peak
- Total Auction/Allocation Revenue = \$ 10.995 M

CRR Price Convergence*



*Cost calculation uses a new method of splitting costs between months in multi-month auctions. Previous months used the same algorithm as the CRR Auction Revenue Distribution.

Market Enhancements Under Consideration

Evaluating Non-Spinning Reserve Pricing Proposals

- ERCOT performed a back-cast analysis of the stakeholder pricing proposals
- ERCOT will continue to work with the IMM and stakeholders to evaluate the impacts of the proposals

Look-Ahead SCED functions framed for market consideration

- ERCOT is working with stakeholders/IMM/PUC Staff in laying out a phased implementation of Look-Ahead SCED and ironing out the details for developing the initial phase by next summer.
 - Non-binding Real Time Dispatch running in parallel to current SCED to publish advisory LMPs and BP up to 1 hr into the future
 - Evaluating feasibility of implementing Loads in SCED Pilot

EILS Proposed Rule Enhancements

- Option to renew contract after deployment obligations are met early in a contract period
- Enhancements to encourage additional participation
- Evaluating feasibility of implementing Energy Storage Pilot
- Working with stakeholders to ensure efficient market performance while narrowing the gap between reliability planning and operations
- Evaluating market operational changes to minimize the impact of RMR on the market

