Impact of Day-Ahead/Real-Time Bidding

- Implications for NYISO software
- market design (including verification)
- settlement process



Implementing Day-Ahead Demand Bidding

- Neenan & Assoc. report due to NYISO BOD in late December
- Resolve outstanding issues in next 2-3 WG meetings (by January)
- Coordinate modifications to MIS/SCUC with IS and Operations personnel
- File tariff changes in March 2001
- Ready for day-ahead load bidding on 5/1/2001



Day-Ahead Demand Bidding

- Principle: loads actively participate in setting DAM LBMP
- Needs to tie in closely with MIS and SCUC software modifications:
 - specifying load bids
 - treatment in day-ahead unit commitment



Assumptions

- Incremental bid formulation (if LMBP falls below X\$/Mwhr, will purchase additional Y MW)
- Only firm load will be served when LBMP is > X\$/Mwhr
- In the absence of demand bidding, firm plus Y increment would be served



Supply/Demand Mix

Generation profile Load profile

40

MW \$/Mwhr Firm bid \$/Mwhr

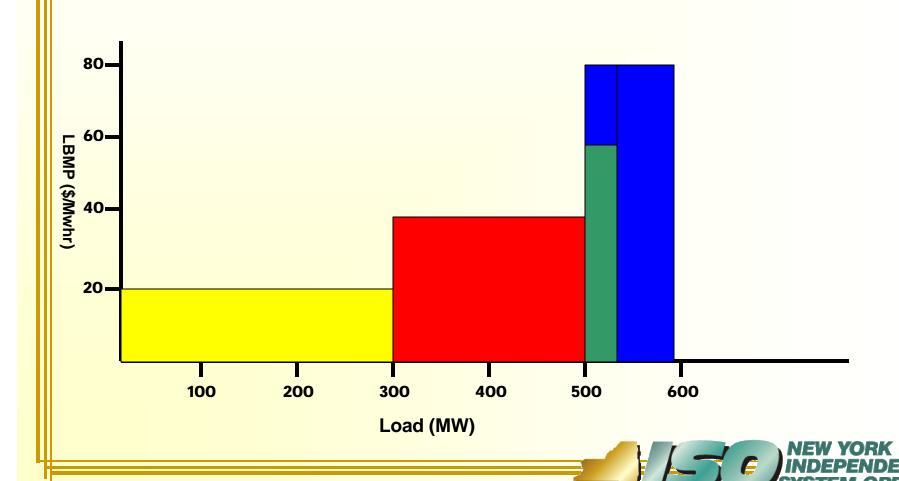
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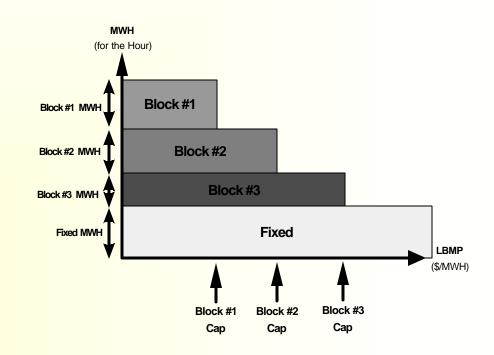


How Loads Set LBMP



Price-Capped Load Bids

- Submitted in Day-Ahead market
- Additional load purchased at lower LBMPs
- Load modeled on zonal basis in SCUC
- Implementation targeted for 5/1/2001



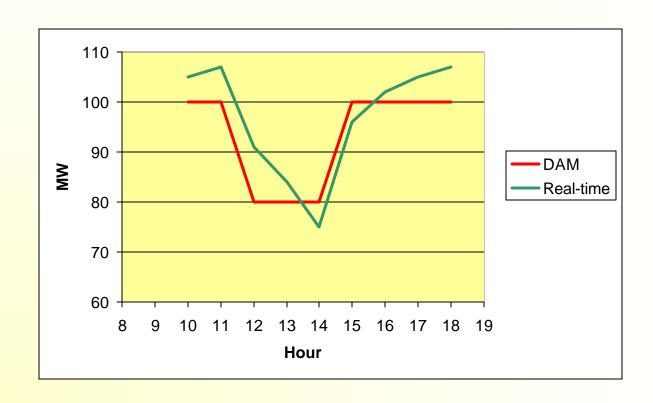


Day-Ahead Demand Bidding Issues

- Bid format up/down or as per price-capped load bid format?
- Paying DAM LBMP to successful bidders
- Recognizing minimum curtailment durations
- Verifying performance



Verifying Performance





Day-Ahead Demand Bidding Issues (cont'd)

- Allocating program costs to market
- Interacting with real-time market
- Impact of retail tariffs
- Enabling participation how do we make it happen?



Real-Time/BME Demand Bidding

- Technical implementation feasible via negative generator bid curve
- Response time is practical issue DG vs. interruptible load
- Settlement may need to be based upon BME not feasible for summer 2001
- What would be the effect of providing real-time price signals to LSEs?

