

Locational Based Marginal Pricing

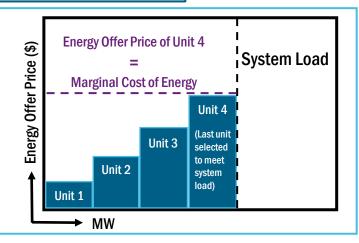
The Locational Based Marginal Price (LBMP) is the cost to serve the <u>next</u> MW of Load at a <u>specific location</u> in the grid.

The Three Components of LBMP

Marginal Energy Price

Cost of producing energy to meet system load in an unconstrained system

- Component of LBMP remains the same at all buses
- Assigned to a central Reference point (Marcy)



Marginal Loss Price

Component that captures Transmission Losses along path to Load caused by Heat dissipation



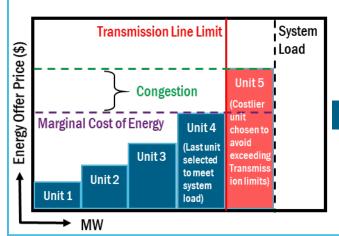


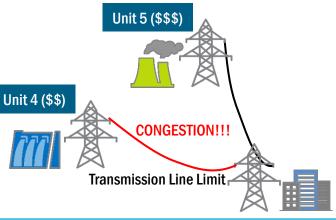


Marginal Cost of Congestion

Reflects the cost associated with costlier units

dispatched to avoid exceeding Transmission Limits and other system constraints





LBMP = Energy + Loss - Congestion