PRL Design Recommendations

Prepared for:

New York ISO
Business Issues Committee

Prepared by:

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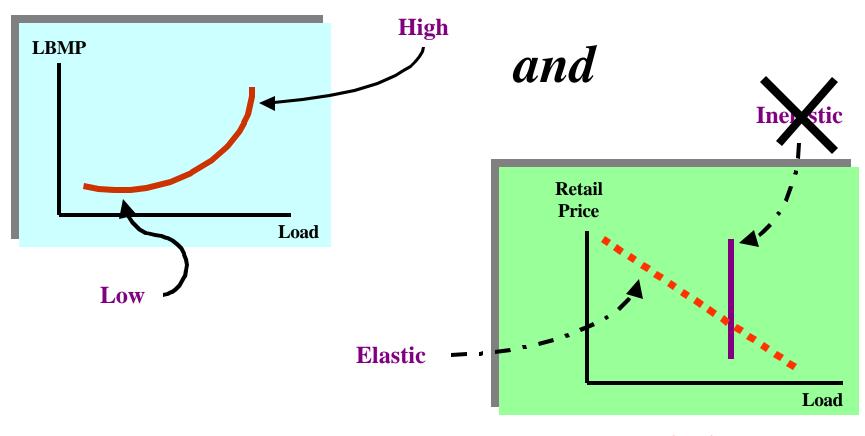
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Why Facilitate PRL Access to the DAM?

- X NYISO is in a unique position to facilitate retail transactions at prices that reflect DAM/RTP prices
- X More transactions among NYS Market Participants provide liquidity and promote efficiency
- X Prevention is the best medicine
- X A Little PLR goes a long way

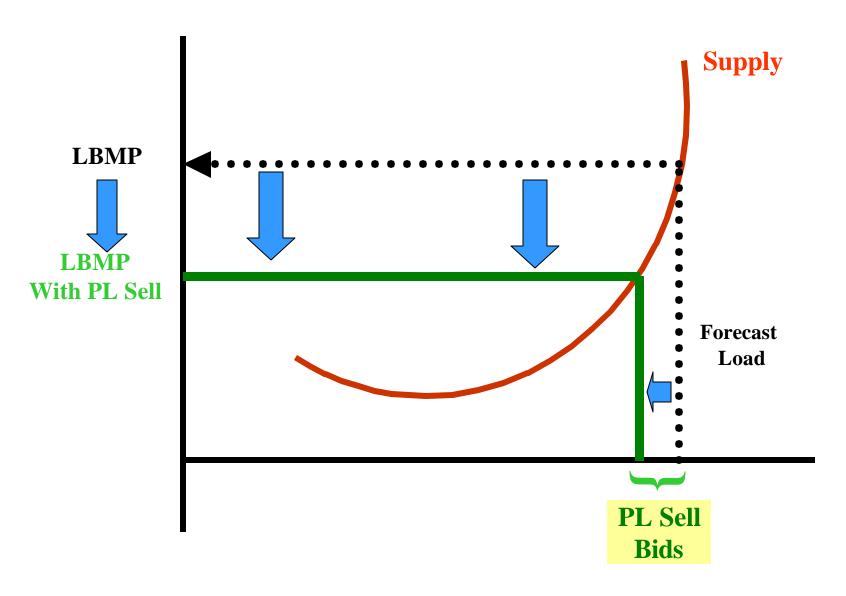
When are PRL Programs Effective?

Supply Flexibility



Demand Elasticity

PRL Impact on High Prices



Priceline

NYISO market provisions that allow customers to realize the value of their load management capabilities by taking corresponding positions in the NYISO DAM market

- **♦ NYISO** establishes consistent, fair, and transparent wholesale market access procedures
- **♦ LSEs establish retail pricing products that reflect value of LM to their retail portfolio**
- © Customers decide when and how much market exposure they are willing to undertake

Priceline Buy and Sell

Priceline Buy

Allows customers to bid

- day-ahead
- for supplemental energy
- at specified times and amounts
- at prices that reflect electricity's marginal contribution to their business operations.

Priceline Sell

Allows customers to bid

- day-ahead
- to curtail energy usage
- at specified times and amounts
- at prices that reflect the inconvenienced associated with shifting operations.

NYISO through its DAM operations determines whether or not the bids are incorporated into the next day's operating schedule

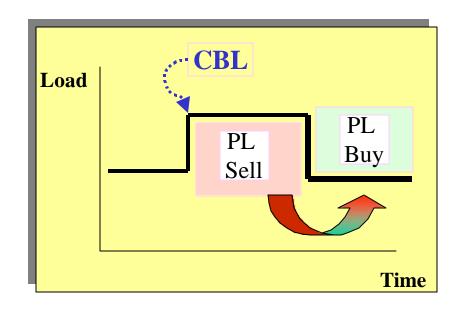
Key Features

...customers bid...the customer sets the price

...for *supplemental energy*... *curtail energy usage*... and alters its typical usage pattern established under its LSE service agreement

Customer Baseline Load

an hourly profile that reflects the customer's typical usage under its LSE electricity agreement

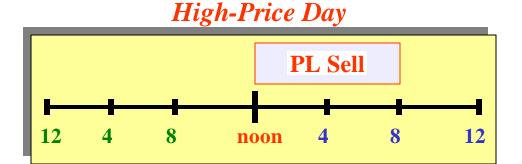


Key Features

...at specified times and amounts...the customer specifies the hours during which it is willing to manage its loads against NYISO market prices.

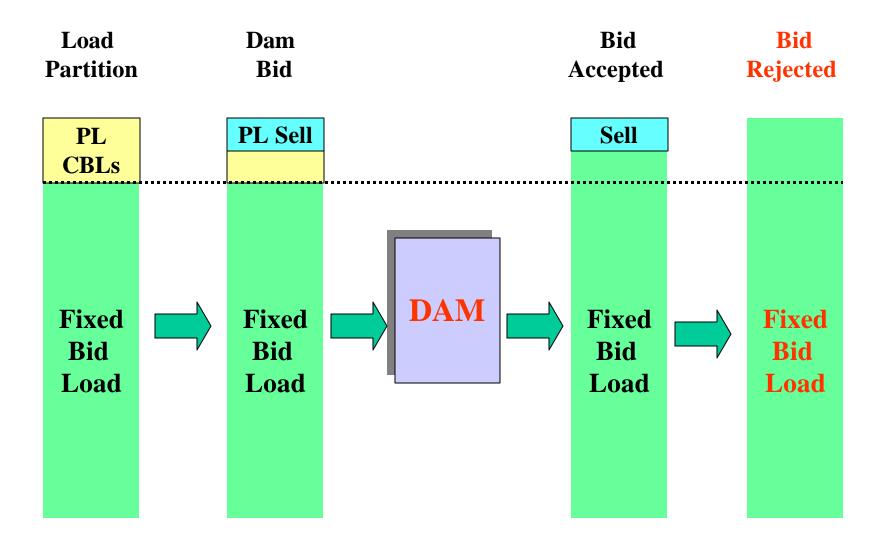
Bid Strips

- strike price (\$/MWH)
- bid load amount (MW)
- number of consecutive hours

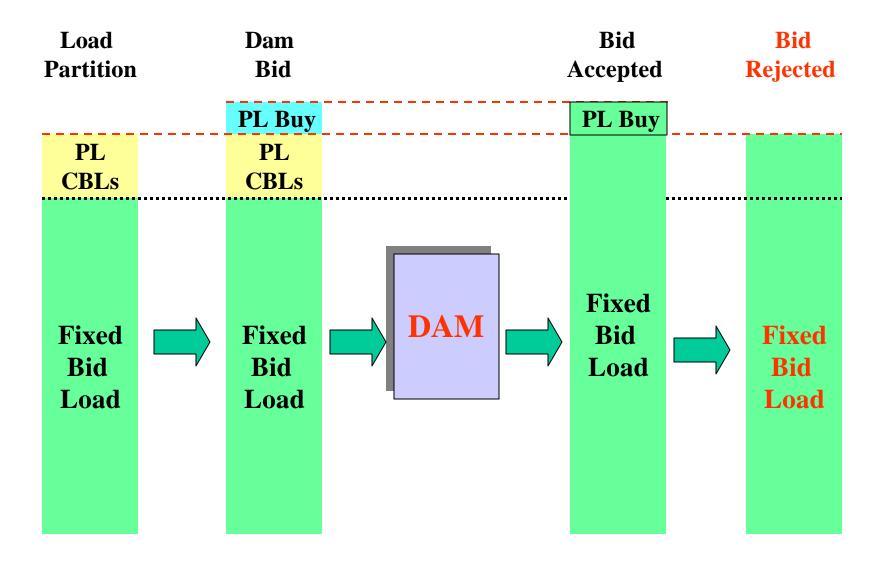




Priceline Sell Bidding by LSE



Priceline Buy Bidding by LSE



Responsibilities

Customer

• Joins LSE program

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- Manage loads to capture bid benefits
- Settle bid outcomes with LSE as part of retail service agreement

LSE

- Establishes retail programs
- Serves as customer's bidding advisor, broker
- Coordinates CBL and metering requirements
- Settles with ISO and customers

ISO

- Establish CBL, bidding procedures
- Evaluate bids in DAM and post results
- Administer DAM and RTP Settlements with LSEs

Benefits

Customers

- More choices in how they buy electricity
- Realize benefits from load management capabilities

LSE

- Greater retail portfolio liquidity and leverage
- Diversity in retail offerings

ISO

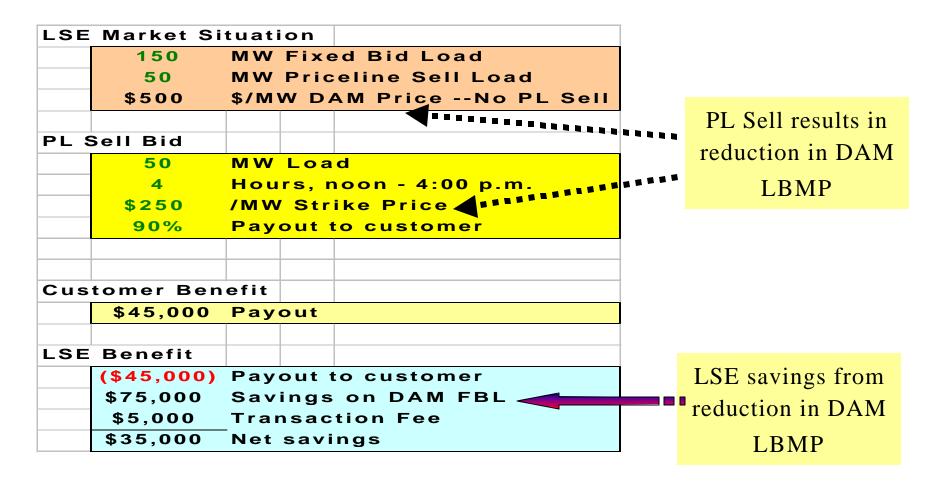
- Increased market efficiency
- Solvent for extreme price volatility

All Market Participants

More robust, efficient, and stable electricity markets

PL Sell Example

Compliance



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PL Sell Example

Non-compliance

