

# Virtual Trading Basics

**Virtual Trading** is the submission of bids for the financial purchase or sale of energy rather than or in addition to the physical delivery or purchase of energy in the NYISO administered energy markets with no effect on physical consumption

## Virtual Trading Fundamentals

Intent to BUY LOW and SELL HIGH

### Virtual Supply

MP Sells in DAM at DAM LBMP (\$)  
MP Buys back in RT at RT LBMP (\$)

### Virtual Load

MP Buys in DAM at DAM LBMP (\$)  
MP Sells back in RT at RT LBMP (\$)

### Virtual Trading Participants:

- MPs involved in physical market activity (e.g. Gen orgs, Load orgs, Transmission Cust.)
- Non-physical MPs (e.g. Financial institutions)

### Benefits to participating

- ✓ Hedging mechanism
- ✓ Revenue opportunity

## Virtual Trading Settlements

### Virtual Supply

#### DAM

Virtual Supply *Sells*  
10MW @\$30  
Total = \$300

#### RT

Virtual Supply *Buys*  
10MW @\$20  
Total = (\$200)

Net Revenue of \$100  
on Virtual Supply Trade at these  
prices

### Virtual Load

#### DAM

Virtual Load *Buys*  
10MW @\$40  
Total = (\$400)

#### RT

Virtual Load *Sells*  
10MW @\$45  
Total = \$450

Net Revenue of \$50  
on Virtual Load Trade at these  
prices

# Virtual Trading Bid Process

## Bidding Requirements

1. Pass Virtual Trading Competency Exam

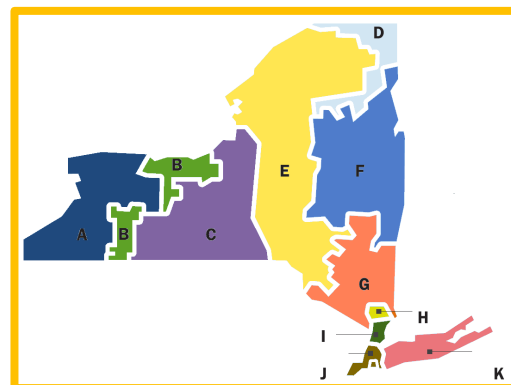


2. Pass Credit Evaluation



## Bidding Parameters

- Bids entered into Day-Ahead Market only
  - Done at zonal level
- Bids submitted at the load bus level for a specific zone
- Virtual traders allowed up to 3 VL and 3 VS buses per zone
  - If credit qualified, 999 MW bid cap on each virtual bus for each hour



## Bid Evaluation

### Solves for:

Physical Load  
VS Bids  
VL Bids



Virtual bidding impacts  
Day-Ahead LBMP  
Calculation

Final dispatch determined  
to supply Load Bid, Virtual  
Load and Virtual Supply

FINAL DAM LBMP (\$)

Facilitates price  
convergence between  
Day-Ahead and Real-  
Time Market prices

### SCUC Passes

Pass 1: Bid- Load Pass

Pass 2: Forecast Load Pass

Pass 3

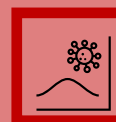
Pass 4

Pass 5: Bid Redispatch Pass

Commits additional  
resources to supply  
Forecast Load

### Not considered:

Physical Load  
VS Bids  
VL Bids



Does not compromise  
physical commitment of  
energy resources for  
system reliability