

# NYISO

# Energy Marketplace

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**New York Market Orientation Course (NYMOC) Webinar**

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Remote Learning

# Energy Marketplace Objectives

## ■ Market Features and Function

- Identify five features of the NYISO Energy Market
- Understand the bidding and scheduling process as it relates to the Two Settlement System

## ■ Load Forecasting and Bidding

- Describe the LSE and NYISO load forecasting process
- Identify the different load bidding and purchasing options

# Objectives – cont'd

## ■ Supply Offers

- Describe the different offer parameters on a generator offer
- Distinguish between the different generator operating modes

## ■ Commitment, Dispatch and Market Timeline

- Identify the inputs to the Day-Ahead and Real-Time commitment and dispatch process.
- Identify the key points of the DAM and RT Market timelines

# Energy Market Features

- Maintains reliability rules while satisfying system constraints
- Administers purchase/sale of electrical energy at the wholesale level
- Evaluates competitive bids/offers
- Provides load and generator schedules
- Produces prices for settlement mechanism

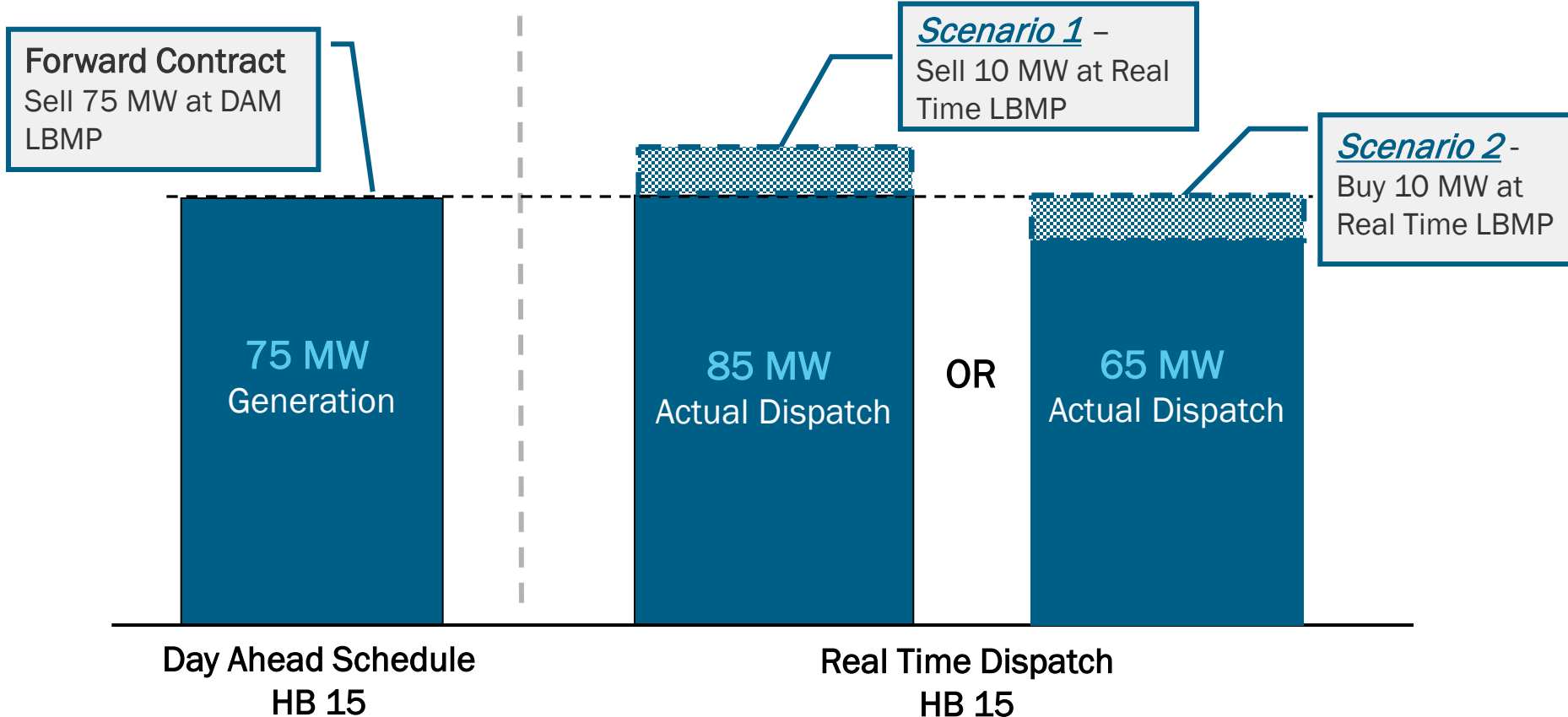
# Two Settlement System

# Two Settlement System

## Day Ahead vs. Real Time Market

Day Ahead Market	Real Time Market
<ul style="list-style-type: none"><li>• Buy and Sell Energy the day prior to actual consumption or production</li><li>• DAM Settlement based upon schedules</li><li>• Financially binding</li></ul>	<ul style="list-style-type: none"><li>• Buy and Sell the difference during the consumption day</li><li>• Real Time Market balances DAM Schedule to Actual Usage</li><li>• Balancing Market</li></ul>

# Two Settlement System – PS Example



# Two Settlement System – PS Example

Power Supplier Selling into Day Ahead Market (DAM)			
Hour Beginning (HB)	DAM MWh	DAM LBMP \$/MWh	DAM Settlement \$
HB 15	75 MWh	\$10/MWh	\$750

Total DAM \$  
HB 15



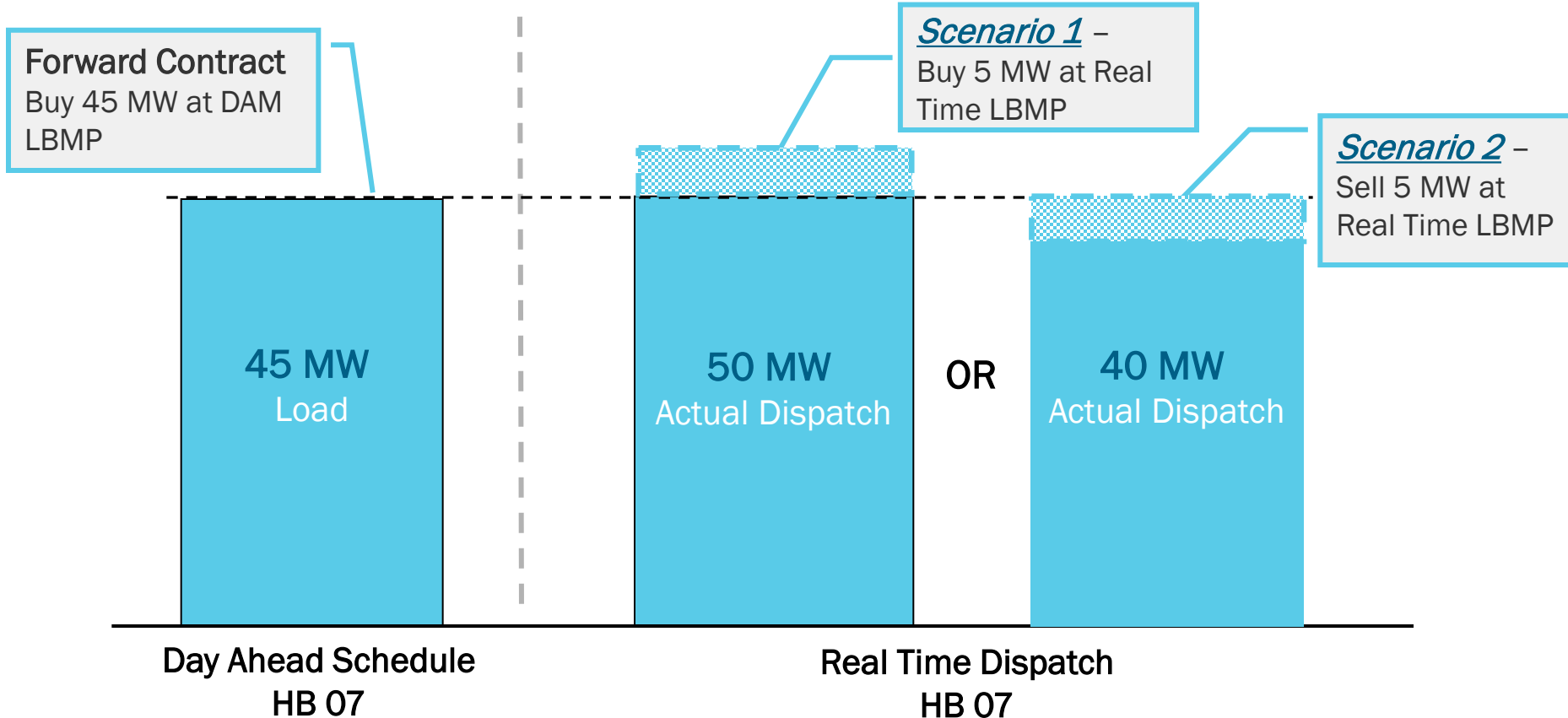
# Two Settlement System – PS Example

Power Supplier Selling into Real Time Market (Balancing)				
HB	DAM MWh	RT MWh ( <i>RT – DAM</i> )	RT LBMP \$/MWh	RT Settlement \$
HB 15 <i>Scenario 1</i>	75 MWh	85 MWh ( <i>10 MWh</i> )	\$20/MWh	\$200
HB 15 <i>Scenario 2</i>	75 MWh	65 MWh ( <i>- 10 MWh</i> )	\$20/MWh	- \$200
HB 15 <i>Scenario *3*</i>	0 MWh	75 MWh	\$20/MWh	\$1500

# Two Settlement System – PS Example

Total Power Supplier Settlement for HB 15			
Scenario	DAM \$	RT \$	Total \$ (DAM \$ + RT \$)
<i>Scenario 1</i>	\$750	\$200	\$950
<i>Scenario 2</i>	\$750	- \$200	\$550
<i>Scenario 3</i>	\$0	\$1500	\$1500

# Two Settlement System – LSE Example



# Two Settlement System – LSE Example

Power Supplier Selling into Day Ahead Market (DAM)			
Hour Beginning (HB)	DAM MWh	DAM LBMP \$/MWh	DAM Settlement \$
HB 07	- 45 MWh	\$30/MWh	- \$1350

Total DAM \$  
HB 07

# Two Settlement System – LSE Example

Load Serving Entity Buying from Real Time Market (Balancing)				
HB	DAM MWh	RT MWh (RT – DAM)	RT LBMP \$/MWh	RT Settlement \$
HB 07 <i>Scenario 1</i>	- 45 MWh	- 50 MWh (- 5 MWh)	\$50/MWh	- \$250
HB 07 <i>Scenario 2</i>	- 45 MWh	- 40 MWh (5 MWh)	\$50/MWh	\$250
HB 07 <i>Scenario *3*</i>	0 MWh	- 45 MWh	\$50/MWh	- \$2250

# Two Settlement System – LSE Example

Total Load Serving Entity Settlement for HB 07			
Scenario	DAM \$	RT \$	Total \$ (DAM \$ + RT \$)
Scenario 1	- \$1350	- \$250	- \$1600
Scenario 2	- \$1350	\$250	- \$1100
Scenario 3	\$0	- \$2250	- \$2250

# Load Forecasting and Bidding

# Load Forecasting and Bidding

- **Load Forecasting**
  - NYISO Load Forecast
  - LSE Load Forecast
- **Load Bidding and Purchasing**
- **Results**



# Load Forecasting and Bidding

## ■ NYISO Load Forecasting

- NYISO Forecast used for Scheduling/Reliability
  - Historical Data
  - Weather
  - TO Forecast Submittals
  - Zonal basis, then summed
- Posted by 8 a.m. Each Day
  - 6 Days Provided

# Load Forecasting and Bidding

## ■ LSE Load Forecast

- Used for Initial Billing Purposes
- Provided 7 Days in Advance
- Can be Updated
  - After DAM closes up until 12:00 Noon the day after operating day

# Load Forecasting and Bidding

## ■ Monitoring LSE Load Forecasting

- NYISO Credit Department
  - Monitors LSE Load Forecasting 3x/Month
  - Benchmarks against:
    - Forecast vs. Actual Historical Load
    - Forecast vs. Monthly UCAP Requirements
  - NYISO Credit Dept. may contact LSE if under forecasting is observed
    - Improve LSE load forecasting accuracy
    - Reconcile variations

# Load Forecasting and Bidding

## ■ Load Bidding and Purchasing

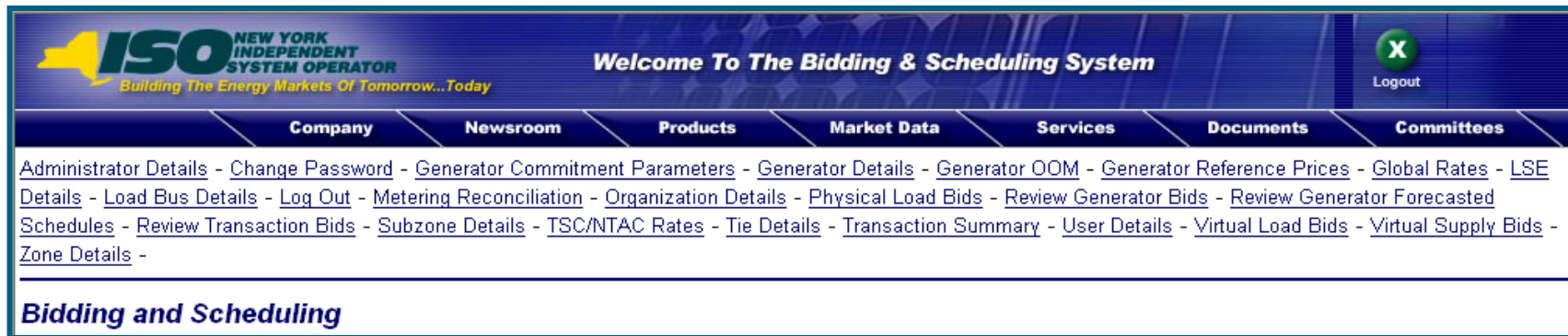
- Load Serving Entities (LSE) bid to procure energy from NYISO
  - Fixed Bids
  - Price Capped Load Bids
- Real Time Energy Purchase (No Bid entered)

Load Bids entered in the DAM only

# Load Forecasting and Bidding

## ■ Load Bidding and Purchasing

- Bids Submitted to Market Information System (MIS)
  - Interface between NYISO and Market Participants
  - Bid, Update, and View



The screenshot displays the NYISO Bidding & Scheduling System interface. At the top left is the NYISO logo with the tagline "Building The Energy Markets Of Tomorrow...Today". The main header reads "Welcome To The Bidding & Scheduling System". On the top right, there is a green "X" icon and a "Logout" button. Below the header is a navigation bar with tabs: "Company", "Newsroom", "Products", "Market Data", "Services", "Documents", and "Committees". Under the "Company" tab, a list of links is provided: [Administrator Details](#), [Change Password](#), [Generator Commitment Parameters](#), [Generator Details](#), [Generator OOM](#), [Generator Reference Prices](#), [Global Rates](#), [LSE Details](#), [Load Bus Details](#), [Log Out](#), [Metering Reconciliation](#), [Organization Details](#), [Physical Load Bids](#), [Review Generator Bids](#), [Review Generator Forecasted Schedules](#), [Review Transaction Bids](#), [Subzone Details](#), [TSC/NTAC Rates](#), [Tie Details](#), [Transaction Summary](#), [User Details](#), [Virtual Load Bids](#), [Virtual Supply Bids](#), and [Zone Details](#). At the bottom of the interface, the text "Bidding and Scheduling" is displayed.

# Load Forecasting and Bidding

- **Load Bidding and Purchasing**
  - Fixed Bids
    - Load purchases forecasted MWs in DAM
    - Regardless of price

# Load Forecasting and Bidding

## ■ Load Bidding and Purchasing

- Price Capped Load Bids
  - \$/MW Price Load is willing to pay
  - 3 Potential Increments
  - Increments are Increasing
    - Load Forecasts 100 MW
    - Bids: 50MW @\$25/MW, 30MW @\$45/MW, & 20MW @\$60/MW

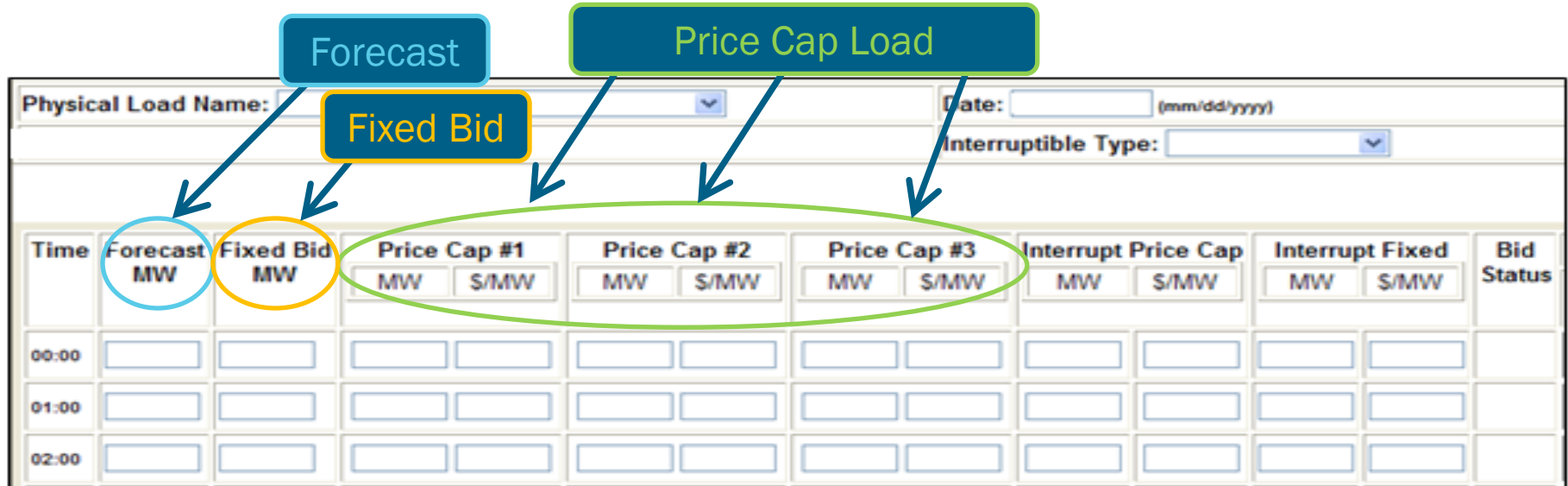
# Load Forecasting and Bidding

## ■ Load Bidding and Purchasing

- Combination of Fixed and Price Capped
  - Cannot exceed forecast MW
- Real Time Energy Purchase
  - Done automatically by NYISO



# Load Forecasting and Bidding



Forecast

Price Cap Load

Fixed Bid

Physical Load Name:  Date:  (mm/dd/yyyy)

Interruptible Type:

Time	Forecast	Fixed Bid	Price Cap #1		Price Cap #2		Price Cap #3		Interrupt Price Cap		Interrupt Fixed		Bid Status
	MW	MW	MW	\$/MW	MW	\$/MW	MW	\$/MW	MW	\$/MW	MW	\$/MW	
00:00	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
01:00	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
02:00	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

# Load Forecasting and Bidding

## ■ Load Bid Results

- Bid Status posted in MIS
  - Validation Passed
    - Data acceptable—no changes necessary
  - Validation Failed
    - Data will require changes
  - Evaluating
    - After DAM closes
    - Prior to posting

# Load Forecasting and Bidding

## ■ Load Bid Results

- Bid Status posted in MIS
  - Accepted
    - DAM schedule posted
  - Rejected
    - Settled in Real Time
- Results Posted
  - MW (MIS)
  - LBMP (NYISO.com)

# LSE MW Settlement Overview

Settlement Invoice	DAM Forecasted MWh	DAM Fixed Bid MWh	DAM Scheduled MWh	RT Actual MWh	DAM Settlement MWh	RT Settlement Balancing MWh
Initial	75	50	50	75 <i>Based solely on the DAM Forecasted MWhs</i>	50 <i>Based on the DAM Fixed MWhs and Accepted Price Cap Load Bids</i>	25
True-up	---	---	---	78 <i>As reported by Metering Authority</i>	---	3 <i>Plus MP is responsible for interest accrual</i>

*LSE should update DAM Forecast by noon the day after the operating day to minimize interest accrual on any true-up invoices.*

# Load Forecasting and Bidding

## ■ LSE Bid Screen Recap

Physical Load Name: LSE\_123

Date: 01/26/2018 (mm/dd/yyyy)

Interruptible Type:

Time	Forecast MW	Fixed Bid MW	Price Cap #1		Price Cap #2		Price Cap #3		Interrupt Price Cap		Interrupt Fixed		Bid Status
			MW	\$/MW	MW	\$/MW	MW	\$/MW	MW	\$/MW	MW	\$/MW	
00:00	120	120											
01:00	110		60	20	40	30	10	40					
02:00	100	70	20	25	10	35							

**LBMP 1/26/18**

HB 0 = \$40

HB 1 = \$50

HB 2 = \$30

# Supply Offers

# Supply Offers

- **Supply Offer Process**
  - Unit Offer Parameters
  - Incremental Energy Offers
  - Unit Operating Modes
- **Results**

# Supply Offers

- Suppliers submit offers to sell energy to the NYISO
  - Day Ahead Market Offers
  - Real Time Market Offers
  - Offers Submitted to Market Information System (MIS)
    - Interface between NYISO and Market Participants
    - Offer, Update, and View





# Supply Offers - Parameters

Supply Offer Parameters	Minimum Run Time	Minimum hours unit must run once started by NYISO
	Minimum Down Time	Minimum hours unit must be down once de-committed by NYISO
	Maximum Stops/Day	Number of times unit can be de-committed in dispatch day
	Response Rate	<div>MW per minute</div> <div>Normal</div> <div>Emergency</div> <div>Regulation</div>
	Market	<div>Day-Ahead (DAM)</div> <div>Real Time (RT)</div>

# Supply Offers - Parameters

Supply Offer Parameters (Cont'd)	Duration	Hours Unit wants to run
	Expiration Date of Offer	DAM Only
		Gen no longer available for Day Ahead Supplement
	Start Up	Time
		Cost
	Minimum Generation	Lower Operating Limit
		\$/MWh Cost
	Upper Operating Limit	Normal (UOLN)
		Emergency (UOLE)

# Supply Offers - Parameters

Supply  
Offer  
Parameters

\*Applicable to  
Energy Storage  
Resources (ESRs)  
only

Lower Operating Limit

Upper Storage Limit

Lower Storage Limit

ESR Outage Type

Beginning Energy Level

Energy Level Management Mode

# Supply Offers - Parameters

<div>Supply Offer Parameters</div> <div><div>*Applicable to Co-located Storage Resources (CSRs) <u>only</u></div></div>	CSR Injection Limit
	CSR Withdrawal Limit
	CSR Outage Type

# Supply Offers – Parameters

## ■ Incremental Energy Offers

- \$/MWh Offers
- 11 Incremental Offer Blocks
- Ranges from Min Gen to Upper Operating Limit
- Variable Cost Recovery

# Supply Offers – Unit Operating Modes

Economics	MWs
<ul style="list-style-type: none"> <li>• <b>ISO Committed</b> <ul style="list-style-type: none"> <li>- Economically Selected</li> </ul> </li> <li>• <b>Self Committed</b> <ul style="list-style-type: none"> <li>- Price Taker</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Fixed</b> <ul style="list-style-type: none"> <li>- Fixed Output/Operating Levels</li> <li>- No Change to in-hour Schedule</li> </ul> </li> <li>• <b>Flexible</b> <ul style="list-style-type: none"> <li>- Flexible Output</li> <li>- Following NYISO Base Point Fluctuation</li> </ul> </li> </ul>



- ISO Committed Flex
- Self Committed Flex
- Self Committed Fixed
- ISO Committed Fixed

# Consider this...

- A generator selecting ‘Self-Committed’ operating mode is likened to LSE entering ‘Fixed Load Bid’
  - *In other words, it wants a schedule regardless of price*
- A generator selecting ‘ISO-Committed’ operating mode is likened to LSE entering ‘Price Capped Load Bid’
  - *In other words, it wants to be scheduled based on its economic parameters*

**Unit Operating Mode in Action:** Unit wants to be scheduled if LBMP is greater than or equal to its offer and wants to run at a specified MW output...

**ISO Committed Flex**

**Self Committed Flex**

**Self Committed Fixed**

**ISO Committed Fixed**



**Unit Operating Mode in Action:** Unit wants to be scheduled no matter the LBMP and wants to run at a specified MW output...

**ISO Committed Flex**

**Self Committed Flex**

**Self Committed Fixed**

**ISO Committed Fixed**

**Unit Operating Mode in Action:** Unit wants to be scheduled no matter the LBMP and willing to run at varying levels of output...

**ISO Committed Flex**

**Self Committed Flex**

**Self Committed Fixed**

**ISO Committed Fixed**

**Unit Operating Mode in Action:** Unit wants to be scheduled if LBMP is greater than or equal to its offer and willing to run at varying levels of output...

**ISO Committed Flex**

**Self Committed Flex**

**Self Committed Fixed**

**ISO Committed Fixed**

# Supply Offers

## ■ Mock-Up Generator Bid Screen

Mock  
Generator Bid Page

### Generator Bid

Generator Name: 
 ESR Beginning Energy Level MWh: 
 Fuel Type: 
 Burdened Fuel Price (\$/mmbtu):

Bid Date:  (mm/dd/yyyy hh:mi)
 Num of Hours: 
 Market: 
 Expiration (DAM only):  (mm/dd/yyyy hh:mi)

### Energy Bid

CSR Injection Limit (MW) <input type="text"/>		CSR Withdrawal Limit (MW) <input type="text"/>		CSR Outage Type <input type="text"/>	
Lower Storage Limit (MWh) <input type="text"/>	Upper Storage Limit (MWh) <input type="text"/>	ESR Energy Management Mode <input type="radio"/> ISO <input type="radio"/> Self		Lower Operating Limit (MW) <input type="text"/>	ESR Outage Type <input type="text"/>
Upper Operating Limit (MW) <input type="text"/>		Emergency Upper Operating Limit (MW) <input type="text"/>		Minimum Generation (MW) <input type="text"/>	Minimum Generation Cost (\$) <input type="text"/>
Self Scheduled (MW)				Unit Operations	
00 Minute MW <input type="text"/>	15 Minute MW <input type="text"/>	30 Minute MW <input type="text"/>	45 Minute MW <input type="text"/>	<input type="radio"/> ISO Committed Flex <input type="radio"/> Self Committed Flex <input type="radio"/> Self Committed Fixed <input type="radio"/> ISO Committed Fixed	
Host Load (MW) <input type="text"/>				Start-Up Cost (\$) <input type="text"/>	

### Bid Curve (Block Format)

MW (Basepoint)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
\$/MW	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
\$/MW (Opportunity Cost)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Ancillary Services

Item	MW	\$/MW
10 Minute Spinning Reserves	<input type="text"/>	<input type="text"/>
10 Minute Non-Synchronized Reserves	<input type="text"/>	<input type="text"/>
30 Minute Spinning Reserves	<input type="text"/>	<input type="text"/>
30 Minute Non-Synchronized Reserves	<input type="text"/>	<input type="text"/>
Regulation Capacity	<input type="text"/>	<input type="text"/>
Regulation Movement	<input type="text"/>	<input type="text"/>

# Supply Offers

## ■ Supply Offer Results

- Offer Status posted in MIS
  - Validation Passed
    - Data acceptable—no changes necessary
  - Validation Failed
    - Data will require changes
  - Evaluating
    - After DAM (or RT) closes
    - Prior to posting


# Supply Offers

- **Supply Offer Results**
  - Offer Status posted in MIS
    - Accepted
      - Unit is committed
      - DAM schedule posted
    - Rejected
      - Unit is not committed

# Supply Offers


- **Supply Offer Results**
  - Results Posted in MIS
    - Market
    - MW
  - Prices Posted on NYISO.com
    - LBMP

# Supply Offers



NEW YORK  
INDEPENDENT  
SYSTEM OPERATOR  
Building The Energy Markets Of Tomorrow...Today

Welcome To The Bidding & Scheduling System



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[Administrator Details](#) - [Change Password](#) - [Generator Commitment Parameters](#) - [Generator Details](#) - [Generator OOM](#) - [LSE Details](#) - [Load Bus Details](#) - [Log Out](#) - [Organization Details](#) - [Physical Load Bids](#) - [Review Generator Bids](#) - [Review Generator Forecasted Schedules](#) - [Review Transaction Bids](#) - [Review Transaction Contracts](#) - [Subzone Details](#) - [Tie Details](#) - [User Details](#) - [Virtual Load Bids](#) - [Virtual Supply Bids](#) - [Zone Details](#) -

Page Ref: E

### Generator Bid Results

Bid Identification				Schedules (MW)							
Date	Market	Generator	Status	Time	Energy	10 Min Spin	10 Min Non-Synch	30 Min Spin	30 Min Non-Synch	Regulation Capacity	Op Cap Reserve
<a href="#">10/12/2013 00:00 EDT</a>	DAM		VALIDATION PASSED								
<a href="#">10/12/2013 00:00 EDT</a>	DAM		BID ACCEPTED	00:00	40	15		0		6	0
<a href="#">10/12/2013 01:00 EDT</a>	DAM		VALIDATION PASSED								
<a href="#">10/12/2013 01:00 EDT</a>	DAM		BID ACCEPTED	01:00	40	15		0		6	0
<a href="#">10/12/2013 02:00 EDT</a>	DAM		VALIDATION PASSED								
<a href="#">10/12/2013 02:00 EDT</a>	DAM		BID ACCEPTED	02:00	30	15		0		6	0
<a href="#">10/12/2013 03:00 EDT</a>	DAM		VALIDATION PASSED								
<a href="#">10/12/2013 03:00 EDT</a>	DAM		BID ACCEPTED	03:00	30	15		0		6	0



# Supply Offers

## ■ Out of Economic Merit – OOM

- Generator asked to produce different level of output from schedule
- Necessary to maintain system reliability
- Requested by
  - NYISO
  - Transmission Owner

# Supply Offers

## ■ OOM - Supplemental Payments

- Bid Production Cost Guarantee – BPCG
  - NYISO guarantees generator will not incur net loss if generator is committed in DAM or above DAM schedule
    - Meets eligibility criteria
    - Sum of all hourly values for given day results in net loss
- BPCG References
  - MST Attachment C
  - OATT Schedule 1 Section 4B
  - MPUG 7.3.1

# Supply Offers

## ■ OOM - Supplemental Payments

- Day Ahead Margin Assurance Payment – DAMAP
  - Payment for generators required to buy back Energy or Ancillaries in RT, due to dispatching below DAM schedule
    - Meets eligibility criteria
- DAMAP References
  - MST Attachment J
  - Accounting & Billing Manual

**TRUE or FALSE:** Accepted Day-Ahead Schedules are Financially binding

TRUE

FALSE

**TRUE or FALSE:** The RT Market Balances DAM Schedules to Actual Production

TRUE

FALSE

**TRUE or FALSE:** LSEs Bid into the DAM and RT Market to Purchase Energy

TRUE

FALSE

# Market Process

# Market Process

## ■ Objectives

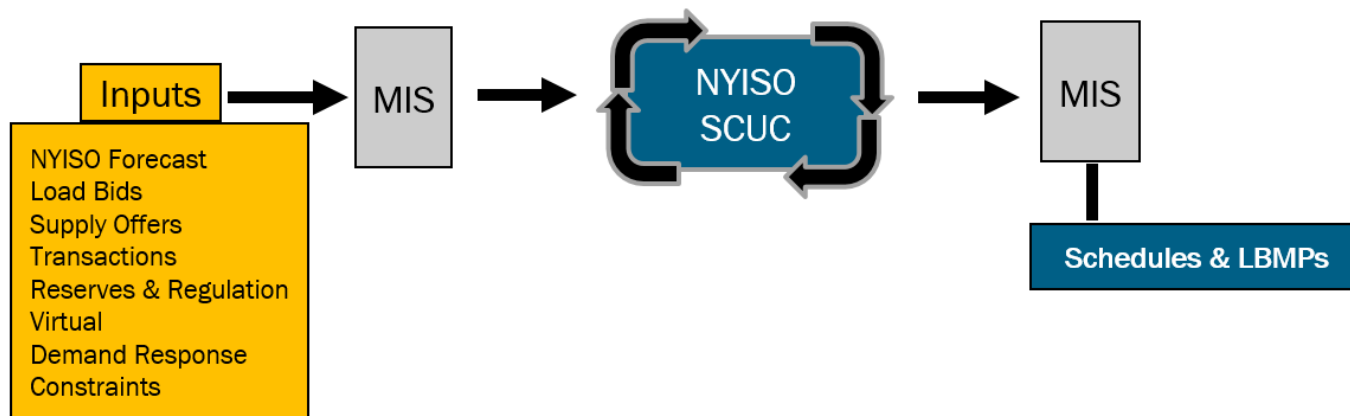
- Commitment and Dispatch
  - Minimize the as-bid production cost
  - Satisfy system constraints and reliability rules
- Time-Line
  - Bidding available up to 14 days prior to Operating Day
  - DAM closes 5 a.m.
  - DAM Schedules and LBMP Posted by 11 a.m.
  - RT closes 75 minutes prior to Operating Hour



# Market Process - DAM

## ■ Commitment and Dispatch

- DAM uses Security Constrained Unit Commitment (SCUC)
  - DAM Schedules
  - DAM LBMP
  - Each Hour of the Day



# Market Process

## ■ Commitment and Dispatch

- RT Market uses
  - Real Time Commitment (RTC)
    - Committing Generators for Dispatching
    - Advisory RT Base Points
    - Advisory RT LBMPs

# Market Process

## ■ Commitment and Dispatch

- RT Market also uses
  - Supplemental Resource Evaluation (SRE)
    - Additional Resource Committal
    - Process used to commit additional resources outside of SCUC and RTC
      - » Used to preserve system reliability and ensure sufficient resources to meet forecasted load and reserve requirements

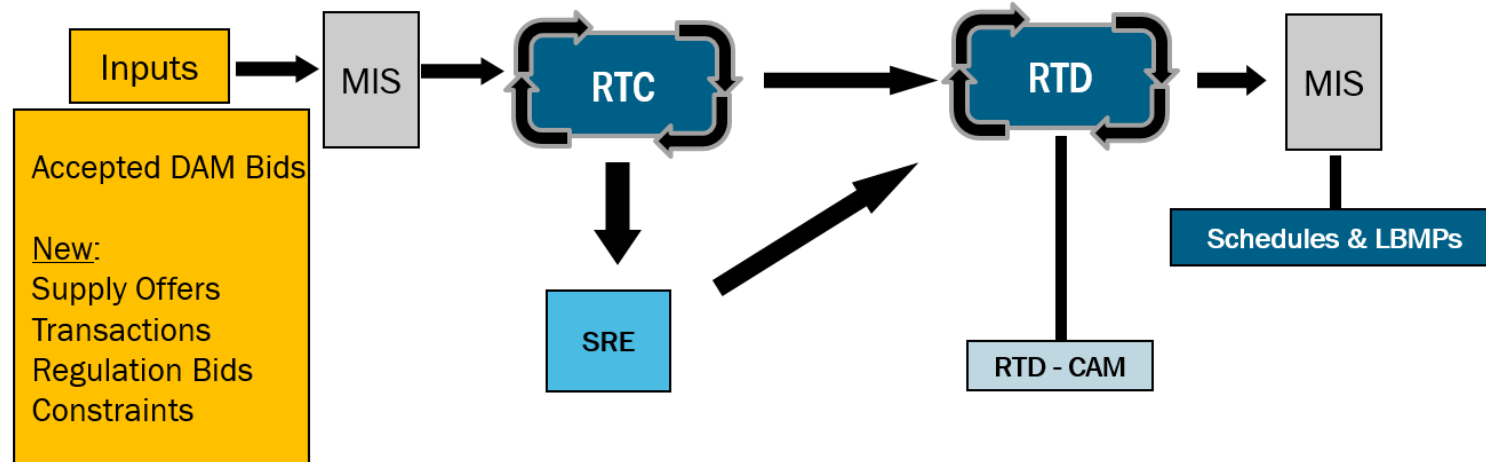
# Market Process

- **Commitment and Dispatch**
  - RT Market also uses
    - Real Time Dispatch (RTD)
      - Dispatches Units in RT
      - 5 Minute Base Points
      - Real Time LBMP
      - Corrective Action Mode (RTD-CAM)

# Market Process – Real Time

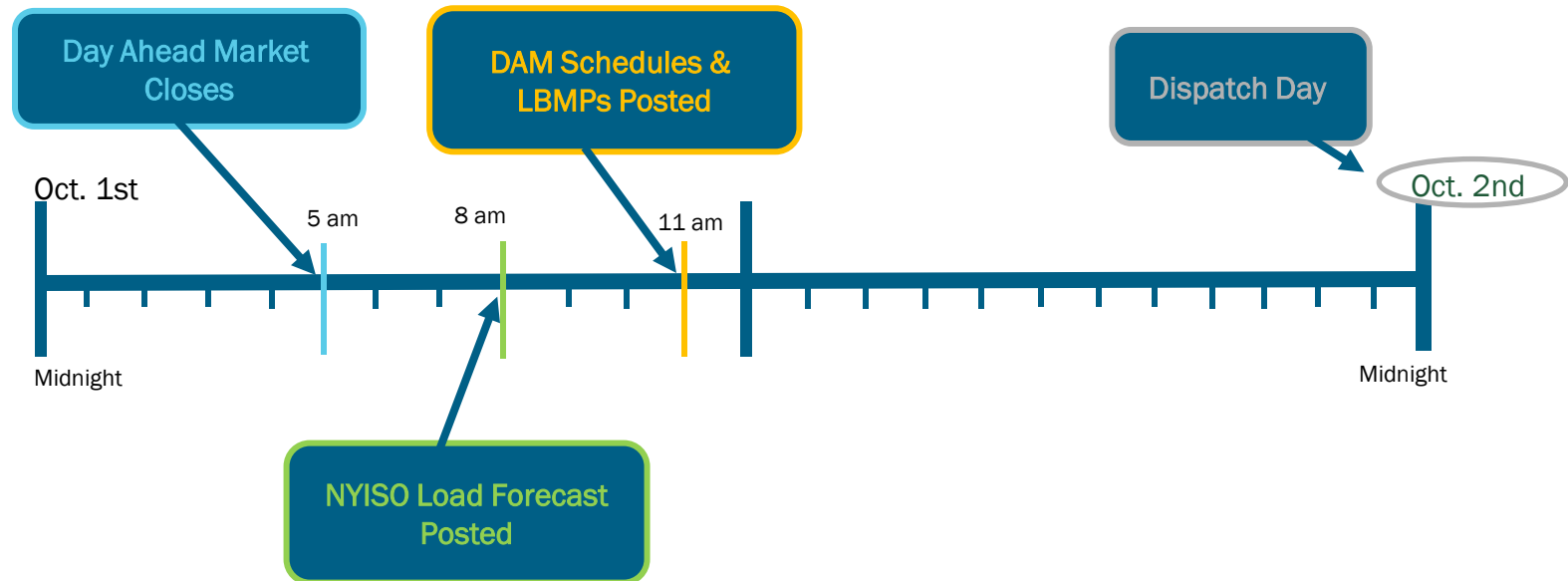
## ■ Real Time Commitment and Real Time Dispatch

- Includes Supplemental Resource Evaluation (SRE) and RTD Corrective Action Mode (RTD CAM)



# Market Process - DAM Time Line

- One Day before Dispatch Day



# Market Process - RT Market Time Line

## ■ Operating Day – Oct 2<sup>nd</sup> HB 10



*NYISO provides advisory commitment information for a 2.5 hour optimization period*

**TRUE or FALSE:** SCUC is used in the DAM Process

TRUE

FALSE



**TRUE or FALSE:** RTC Dispatches units to run in the RT Market

TRUE

FALSE

**TRUE or FALSE:** The DAM closes at 5:00 AM the day before dispatch

TRUE

FALSE

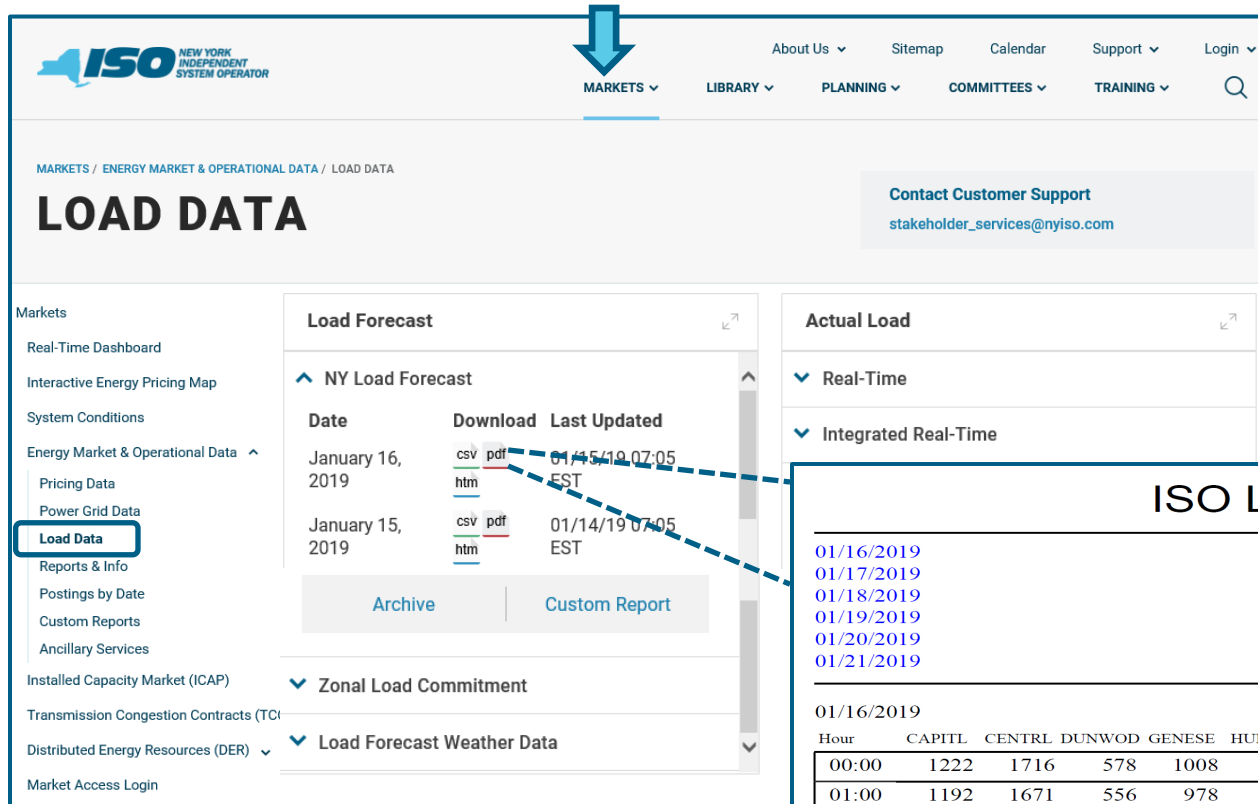
**TRUE or FALSE:** RT Bidding closes 75 minutes prior to the Operating Hour

TRUE

FALSE

# **Energy Marketplace NYISO Website Information**

# Energy Market – Load Forecast Data



**ISO** NEW YORK INDEPENDENT SYSTEM OPERATOR

MARKETS ▾ LIBRARY ▾ PLANNING ▾ COMMITTEES ▾ TRAINING ▾

MARKETS / ENERGY MARKET & OPERATIONAL DATA / LOAD DATA

## LOAD DATA

Contact Customer Support  
stakeholder\_services@nyiso.com

Markets

- Real-Time Dashboard
- Interactive Energy Pricing Map
- System Conditions
- Energy Market & Operational Data ▾
  - Pricing Data
  - Power Grid Data
  - Load Data**
  - Reports & Info
  - Postings by Date
  - Custom Reports
  - Ancillary Services
- Installed Capacity Market (ICAP)
- Transmission Congestion Contracts (TC)
- Distributed Energy Resources (DER) ▾
- Market Access Login

**Load Forecast**

NY Load Forecast

Date	Download	Last Updated
January 16, 2019	<a href="#">csv</a> <a href="#">pdf</a> <a href="#">htm</a>	01/15/19 07:05 EST
January 15, 2019	<a href="#">csv</a> <a href="#">pdf</a> <a href="#">htm</a>	01/14/19 07:05 EST

Archive Custom Report

Zonal Load Commitment

Load Forecast Weather Data

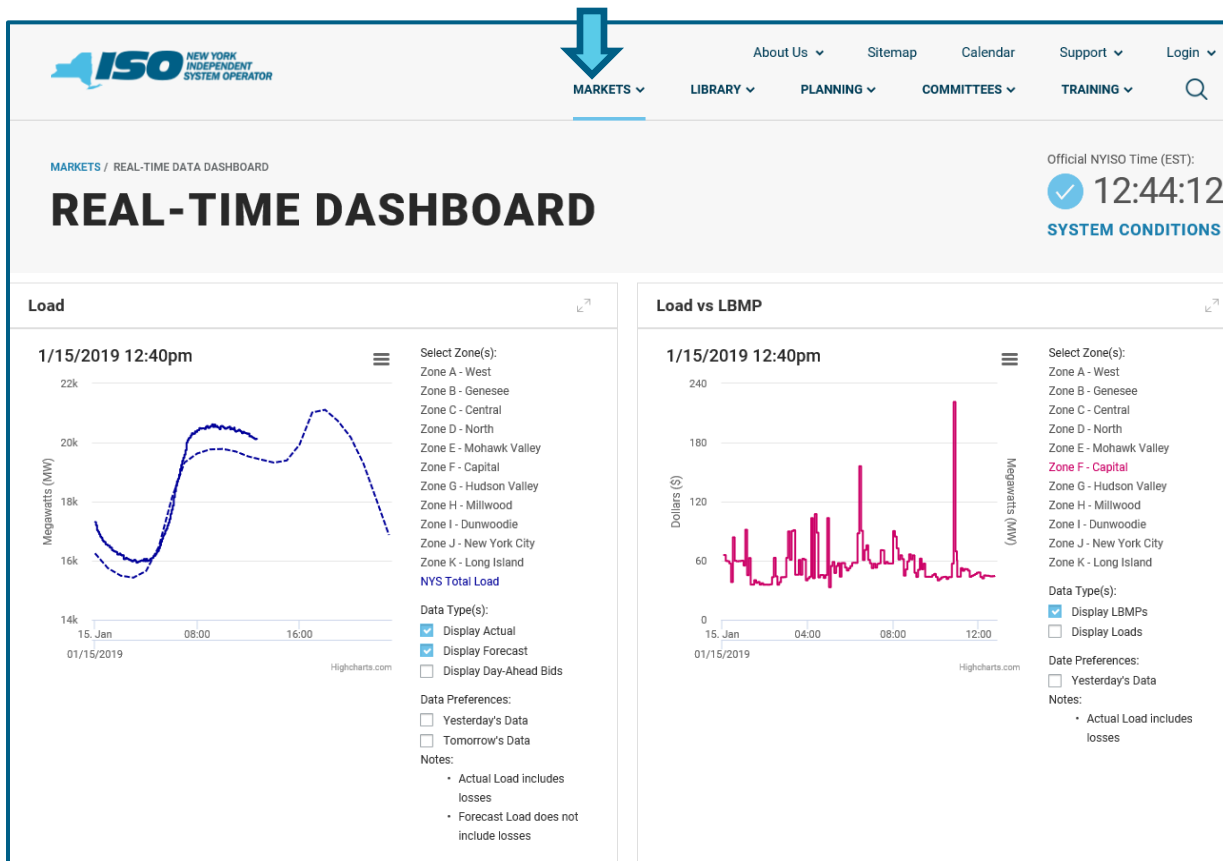
## ISO Load Forecast

01/16/2019  
 01/17/2019  
 01/18/2019  
 01/19/2019  
 01/20/2019  
 01/21/2019

01/16/2019


Hour	CAPITL	CENTRL	DUNWOD	GENESE	HUD VL	LONGIL	MHK VL	MILLWD	N.Y.C.	NORTH	WEST	NYISO
00:00	1222	1716	578	1008	977	1997	768	286	5120	590	1563	15825
01:00	1192	1671	556	978	944	1916	745	276	4890	584	1526	15278

# Energy Market Real - Time Data



# Energy Market – DAM and Balancing

## Market Reports



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stakeholder\_services@nyiso.com

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Interactive Energy Pricing Map

System Conditions

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▼ NYISO Capacity

▲ Daily Energy

Date	Download	Last Updated
January 16, 2019	<a href="#">csv</a> <a href="#">htm</a>	01/15/19 09:42 EST
January 15, 2019	<a href="#">csv</a> <a href="#">htm</a>	01/14/19 09:41 EST

Archive

▼ Balancing Market Advisory ▼

Events, Announcements and Fuel Mix ↗

▼ Real-Time Events

▼ Operational Announcements

▼ Real-Time Fuel Mix

# Energy Report – DAM and Balancing Market Reports

## Daily Energy Report - Day Ahead Market (DAM)

Date: 01/16/2019

	MWh	Percent	
NYISO Load Forecast	438645		
Customer Load Forecast	432656	-1.4%	
	Offered MWh	Scheduled MWh	Percent
Load Bids	234517	234517	100.0%
Bilateral Bids	167571	167571	100.0%
Price Capped Load Bids	52294	45439	86.9%
Virtual Load Bids	37425	28537	76.3%
Total Load	491807	476064	96.8%
Total Peak Load	344926	336624	97.6%
Total Non Peak Load	146881	139440	94.9%
Generation Bids	842120	358619	42.6%
Virtual Supply Bids	90899	78916	86.8%
Total Generation	933019	437535	46.9%
Total Peak Generation	630176	311442	49.4%
Total Non Peak Generation	302844	126092	41.6%
Imports	94502	91633	97.0%
Exports	47458	41357	87.1%
Net Imports/(Exports)	47044	50276	106.9%
Gross Imports/Exports Summary			
Wheel Throughs	8762	8472	96.7%

## Balancing Market Advisory Summary

Date: 01/15/2019

	Offered MWh	Scheduled MWh	Percent
<a href="#">Bilateral Bids</a>	18150	18150	
<a href="#">Generation Bids</a>	335327	218230	65.1%
<a href="#">Imports</a>	134471	131693	97.9%
<a href="#">Exports</a>	57013	56054	98.3%
<a href="#">Net Imports/(Exports)</a>	77458	75639	97.7%
<a href="#">Gross Imports/Exports Summary</a>			
<a href="#">Wheel Throughs</a>	3600	3600	100.0%



# Marketplace Summary

## ■ Market Features and Function

- Identify five features of the NYISO Energy Market
- Understand the bidding and scheduling process as it relates to the Two Settlement System

## ■ Load Forecasting and Bidding

- Describe the LSE and NYISO load forecasting process
- Identify the different load bidding and purchasing options

# Marketplace Summary

## ■ Supply Offers

- Describe the different offer parameters on a generator offer
- Distinguish between the different generator operating modes

## ■ Commitment, Dispatch and Market Timelines

- Identify the inputs to the Day-Ahead and Real-Time commitment and dispatch process.
- Identify the key points of the DAM and RT Market timelines

# Additional Resources

- **Tariffs: MST and OATT**
- **Day Ahead Scheduling Manual**
- **Transmission and Dispatching Operations Manual**
- **Market Participant User's Guide (MPUG)**