

# Implementation Update: Coordinated Transaction Scheduling (CTS) Enhancements

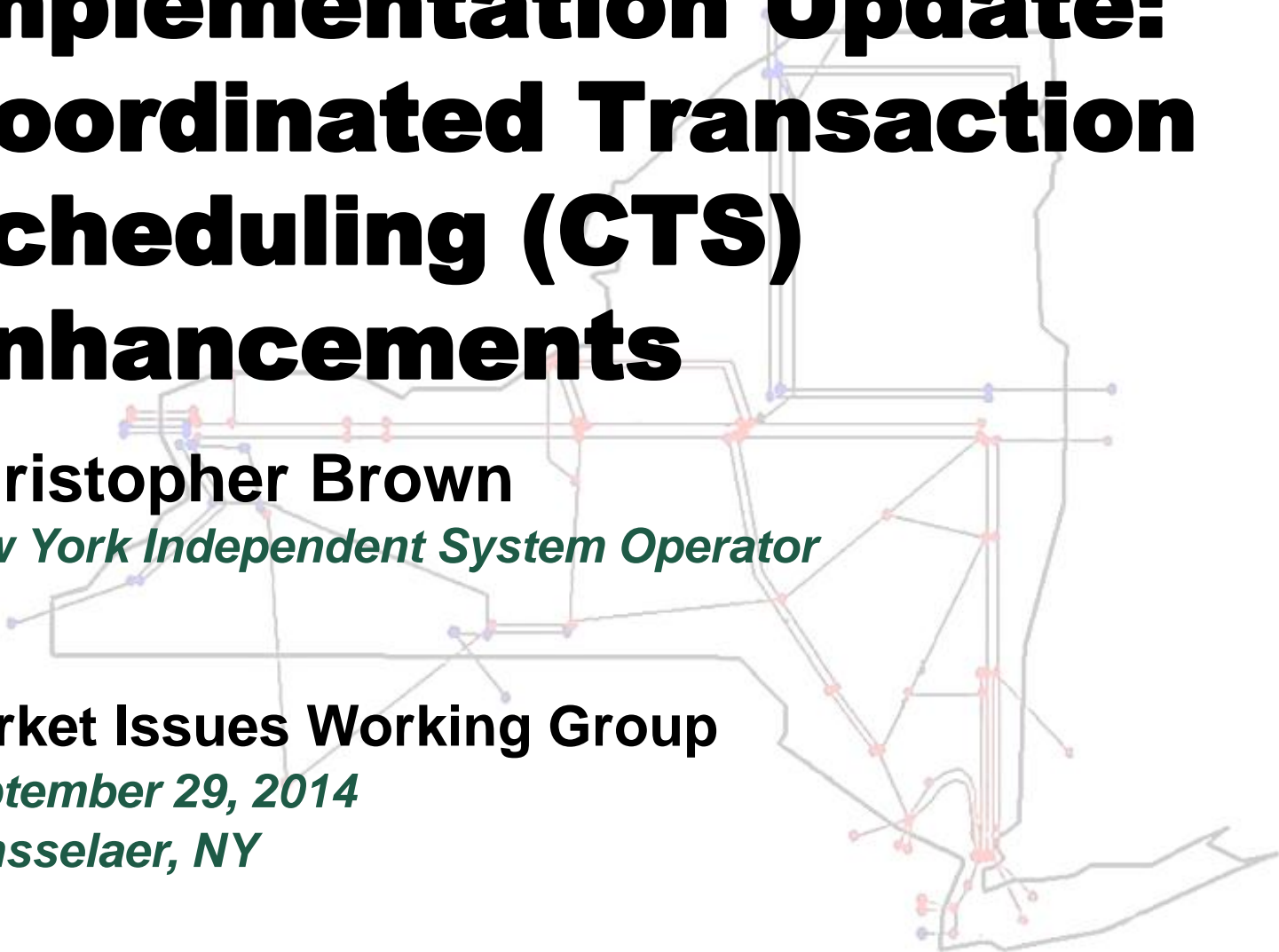
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*New York Independent System Operator*

**Market Issues Working Group**

*September 29, 2014*

*Rensselaer, NY*



# Agenda

- ◆ **Project overview**
- ◆ **CTS Transaction Bids**
- ◆ **Using 15-minute Transaction Bid Curves**
- ◆ **JESS –Upload/Download Templates**
- ◆ **Hourly Transaction Scheduling at PJM Proxies**
- ◆ **15-Minute Schedule Timing**
- ◆ **External RTO CTS Price Posting**
- ◆ **Disabling of 15-Minute Scheduling Notification**
- ◆ **Credit Validation Timeline for CTS Bids**
- ◆ **Settlement Rule Changes**

# Project Overview

- ◆ NYISO and PJM projects are on target
- ◆ Currently in testing
- ◆ Software deployment date (planned):
  - *10/22/2014*
- ◆ CTS activation date (planned):
  - *11/4/2014 HB11*
- ◆ Final dates will be confirmed with notices via TIE list

# CTS Transaction Bids

- ◆ **CTS bids will be managed using same JESS bidding screens and upload/download templates as used for LBMP type bids**
  - *New Bid Schedule Type: 15-Min CTS*
- ◆ **Where:**
  - *All four PJM proxies: Keystone, Linden VFT, HTP, Neptune*
- ◆ **When:**
  - *Planned activation –11/4/2014 HB11*

# Using 15-minute Transaction Bid Curves [1]

- ◆ Users have option to specify either:
  - *A single bid curve and Energy Profile MW for entire hour*
  - *Individual bid curves and Energy Profile MW for each of the four quarter hours\**
- ◆ Existing 75-minute before top of hour bid submission deadline applies to entire bid including all four bid curves

\* *Note: Energy profile MW on E-Tag must be greater than or equal to the highest energy profile MW on any of the four bid curves*

# Using 15-minute Transaction Bid Curves [2]

- ◆ **HAM market only; can't be used in DAM**
- ◆ **Must use a 15-minute bid schedule type: '15-Min LBMP' or '15-Min CTS' (i.e. not available for hourly bid schedule types)**
- ◆ **Where:**
  - *Can be used at any proxy which allows 15-minute bidding (HQ Chateauguay and all four PJM proxies)*
- ◆ **When:**
  - *Shortly following planned October software deployment; users will be notified in-day when 15-minute bid curve feature is available*

# JESS –Upload/Download Templates

- ◆ Upload/download templates revised to accommodate CTS bidding and 15-minute bids curves
  - *See July 7, 2014 MIWG meeting materials for revised template specs*
- ◆ Template changes will impact all JESS upload/download users entering transactions at all NY Proxies, not just users of CTS bids or 15-minute bid curves
- ◆ When:
  - *Immediately following planned October software deployment*

# Hourly Transaction Scheduling at PJM Proxies [1]

- ◆ Once CTS bidding is activated at the four PJM proxies, hourly import/export transactions will no longer be permitted at the four PJM proxies
  - *Import/export transactions at the four PJM proxies must use a 15-min bid schedule type: '15-Min LBMP' or '15-Min CTS'*
- ◆ Wheel through transactions will continue to use hourly bid schedule type



# Hourly Transaction Scheduling at PJM Proxies [2]

- ◆ Any existing hourly import/ export bids for hours past the CTS activation date will have their bid status changed to 'Validation Failed'
- ◆ Where:
  - *All four PJM proxies*
- ◆ When:
  - *Planned activation –11/4/2014 HB11*

# 15-Minute Schedule Timing

- ◆ **15-minute bid schedule type transactions will be scheduled in the 1<sup>st</sup> timestep of RTC rather than 2<sup>nd</sup> timestep (current)**
  - *Schedules will be established 15-minutes closer to flowing in real-time*
- ◆ **When:**
  - *Immediately following planned October software deployment*

# External RTO CTS Price Posting [1]

- ◆ **NYISO will post the forward looking prices received from PJM used in the evaluation of CTS bids**
- ◆ **Information will be posted on NYISO web site (see next slide) under:** *Market & Operational Data-Pricing Data- Miscellaneous –External RTO CTS Prices – RTC vs. External RTO CTS Prices report*
- ◆ **This information will also be available in the DSS Public Datamart**

# External RTO CTS Price Posting [2]

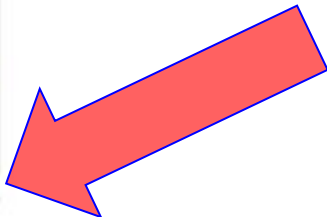
Market Data

- Market & Operational Data
  - Pricing Data
    - Power Grid Data
    - Load Data
    - Reports & Information
    - Postings by Date
    - Zone Maps
    - Graphs
    - Market Access Login
    - Custom Reports
  - TCC
  - ICAP
  - Demand Response
  - Ancillary Services
  - Interregional Data
  - System Conditions
- Services
  - Financial Services [+]
  - Customer Registration
  - Market Training [+]
  - Market Monitoring [+]
  - Reliability Compliance
- Support
  - Customer Support
  - Submit A Help Ticket

## Pricing Data

Pricing Data	Power Grid Data	Load Data	Reports & Info	Postings by Date	Maps	Graphs	Market Access Login
<div style="display: flex; justify-content: space-between;"> <span>Date</span> <span>Download</span> <span>Last Updated</span> </div> <div style="text-align: center; padding: 20px;"> <p>To view documents, please select from the folder structure on the left.</p> </div>							

- [-] Pricing Data
  - [-] Day-Ahead Market LBHP
  - [-] Real-Time Market LBHP
  - [-] Time-Weighted/Integrated RT
  - [-] Ancillary Services
  - [-] Miscellaneous
    - Price Corrections
    - TSC & NTAC Rates
    - NYP&A NTAC Billing Units
    - LIPA Discounted TSC Rate
    - Rate Schedule 1
    - Rate Schedule 2
    - National Grid TSC Materials
  - [-] Archived Real-Time Commi
    - Zonal
    - Generator
    - Ancillary Services
  - [-] Real-Time Commitment Prices
    - Zonal
    - Generator
    - Ancillary Services
  - [-] External RTO CTS Prices
    - RTC vs. External RTO CTS Prices



# Disabling of 15-Minute Scheduling Notification

- ◆ Notification of the disabling of 15-minute scheduling will be provided on web under Operational Announcements –see below

P-25

11-Sep-2014

## NYISO Operational Announcements

[Dispatcher Notices](#)  
[Committed for Reliability](#)  
[15 Minute Scheduling Disabled Notices](#)  
[Market Monitor Notices](#)  
[Market Pricing Notices](#)

### Dispatcher Notices

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Insert Time	Message

### Committed for Reliability

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Insert Time	Message

### 15 Minute Scheduling Disabled

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Insert Time	Message
11-Sep-2014 08:15:00	Interface: PJM_GEN_KEYSTONE, 15 minute scheduling disabled beginning 11-Sep-2014 09:00:00 until 11-Sep-2014 10:00:00
11-Sep-2014 08:15:00	Interface: PJM_GEN_NEPTUNE_PROXY, 15 minute scheduling disabled beginning 11-Sep-2014 09:00:00 until 11-Sep-2014 10:00:00
11-Sep-2014 08:15:00	Interface: PJM_GEN_VFT_PROXY, 15 minute scheduling disabled beginning 11-Sep-2014 09:00:00 until 11-Sep-2014 10:00:00
11-Sep-2014 08:15:00	Interface: PJM_GEN_HTP_PROXY, 15 minute scheduling disabled beginning 11-Sep-2014 09:00:00 until 11-Sep-2014 10:00:00

### Market Monitor Notices

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Insert Time	Message

### Market Pricing Notices

[Back to top](#)

Insert Time	Message

# Credit Validation Timeline for CTS Bids

- ◆ Credit evaluation for CTS bids will occur approximately 75 minutes prior to the start of the hour
  - *The time of Credit evaluation for LBMP bids is at bid submission*

# Settlement Rule Changes

- ◆ Transactions at CTS enabled proxy buses will be ineligible for Import Curtailment Guarantee payments
- ◆ When:
  - *Planned activation – 11/4/2014 HB11*

# Next Steps

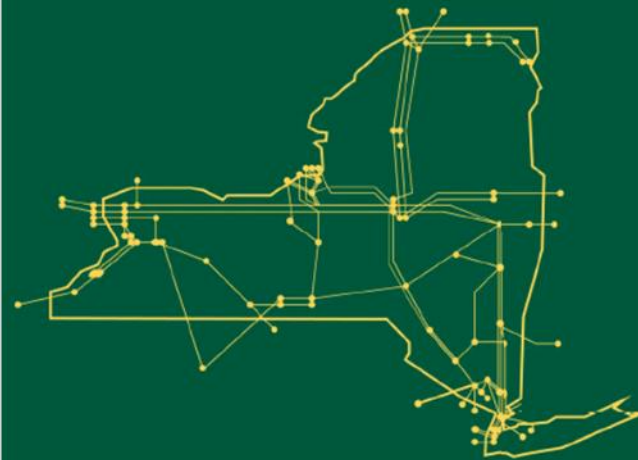
- ◆ **Sandbox Testing**
  - ✓ *September 2 - 4*
  - ✓ *September 16 - 18*
  - *September 30 - October 2*
- ◆ **(At least) two weeks prior to software deployment:**
  - *FERC filing with effective date for revised OATT and MST*
- ◆ **(At least) two weeks prior to CTS activation date:**
  - *FERC filing with effective date for proxy bus scheduling frequencies (MST 4.4.4)*



# Appendix: Additional Information

- ◆ **NYISO-PJM Joint Stakeholder Meetings (posted under MIWG)**
  - *11/28/2012, 2/20/2013, 4/2/2013, 6/25/2013, 7/10/2013*
- ◆ **MIWG**
  - *11/1/2013, 7/7/2014*
- ◆ ***Credit Policy Working Group***
  - *7/31/2013, 5/27/2014*
- ◆ **Management Committee**
  - *9/30/2013, 6/26/2014*
- ◆ **NYISO Market Training**
  - [http://www.nyiso.com/public/webdocs/markets\\_operations/services/market\\_training/workshops\\_courses/Training\\_Course\\_Materials/Miscellaneous/CTS%20Phase%202%20B.pdf](http://www.nyiso.com/public/webdocs/markets_operations/services/market_training/workshops_courses/Training_Course_Materials/Miscellaneous/CTS%20Phase%202%20B.pdf)

The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



[www.nyiso.com](http://www.nyiso.com)