

CTS with ISO-NE Tariff Revisions

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Benefits of CTS with ISO-NE

Coordinated Transaction Scheduling (CTS)

The objective of CTS is to improve efficiency of energy scheduling with neighboring ISOs.

Efficiency Impact

CTS will allow market participants to schedule based on the price difference between the NYISO and the neighboring ISOs, thereby:

- improving the arbitrage opportunities available;
- improving the convergence of energy prices throughout the regions resulting in more efficient utilization of existing transmission capability; and
- allowing more efficient access to lower cost resources throughout the regions.

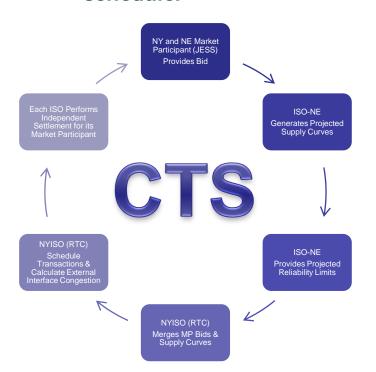
In addition, the NYISO and ISO-NE will make quarter-hour scheduling available at the Sandy Pond Proxy Generator Bus when CTS is implemented.



Benefits of CTS with ISO-NE

Today

- RTC schedules interchange without any knowledge of ISO-NE reliability limits.
- Any reductions in the normal Reliability Limits after RTC has produced an interchange schedule can result in transaction cuts by operators during the checkout process, potentially resulting in a less economic interchange schedule.



Tomorrow (post CTS w/ ISO-NE activation)

- RTC will be supplied with reliability limits as inputs, allowing RTC to schedule the most economic interchange possible within the range of the limits.
- Transaction cuts after RTC has scheduled interchange should be minimized.



CTS Review

The NYISO has reviewed the concepts contained in the Joint Coordination Agreement at previous working group meetings.

CTS Workshop on February 12, 2015

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2015-02-12/CTS%20with%20ISO-NE%20How%20it%20will%20Work%203.pdf

MIWG on April 2, 2015

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2015-04-02/CTS%20with%20ISO-NE%20How%20it%20will%20Work%205.pdf

MIWG on April 23, 2015

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2015-04-23/agenda%202%20CTS%20with%20ISO-NE%20Tariff%20Revisions.pdf

MIWG on May 20, 2015

http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2015-05-20/agenda%203%20CTS%20with%20ISO-NE%20Tariff%20Revisions%20Follow%20Up.pdf



OATT & MST Updates

- OATT 6.1, 6.2, and 6.5 Ministerial Changes for defining which transactions are exempt from certain fees
- OATT 16.3 Ministerial Cleanup
- MST Section 4.4.4 Updates for CTS Enabled Proxies at NE buses
- MST Section 17.1.6 Ministerial Change to the definition of Interface ATC Constraint



Body

- Article 1.0 Revised definitions and added new definitions for CTS implementation
- Section 2.2 Administration of CTS and implementation of other arrangements added to purpose of agreement
- Section 4.10 Revised to reference another section of agreement for consistency
- Article 6.0 Revisions to exchange of information and confidentiality
- Sections 6.1 Revised to authorize sharing information for administration of CTS
- Section 6.2 Revised description of Data Exchange Contact
- Section 6.4 Revised authority to share Confidential Information not specifically identified in agreement



- Body (cont.)
 - Section 6.5 Revised obligations to protect Confidential Information
 - Section 6.6 New section to address unauthorized transfer of 3rd-party intellectual property
 - Section 7.2 7.4 General cleanup of Coordination Committee duties and ministerial updates
 - Section 9.2 Removed, material covered in Article 6
 - Section 11.1 Added description of scheduling checkout procedures for Day-Ahead and Real-Time
 - Article 12.0 Added reference to new Schedule D CTS
 - Section 13.3 Ministerial updates
 - Section 13.4 Added language to not limit payments for Emergency Energy
 - Section 13.5 Ministerial updates



- Body (cont.)
 - Sections 17.1 17.2 Ministerial updates
 - Article 19.0 Dispute Resolution process clarifications
 - Sections 20.2 and 22.2 Ministerial updates
 - Section 22.3 Added notification process between the Parties for self-reporting of potential violations by a Party
 - Section 22.6 Revised description of changes that will be deemed modifications to the agreement
 - Schedule A Updated E205W Intertie substation name
 - Schedule B General cleanup of Coordination Committee duties and ministerial updates
 - Schedule C Article VI Updated invoicing and payment provisions



- Schedule D New for CTS
 - Article 1.0 Provides an overview of CTS and links the Schedule D language to the respective Tariff of each Party
 - Article 2.0 Submittal of CTS Interface Bids
 - NYISO hosts Joint Energy Scheduling System (JESS) bidding platform
 - All bids in JESS must have both NYISO and ISO-NE market participant identified
 - Users can set up trust relationships between individual NYISO and ISO-NE market participants to auto-confirm submitted bids
 - Article 3.0 ISO-NE will calculate forecasted energy prices at the CTS interface (i.e., Roseton Proxy) based on varying interchange levels



- Schedule D New for CTS
 - Article 4.0 Scheduling External Transactions at CTS Enabled Interfaces
 - Describes how CTS Interface Bids are evaluated, and when and how CTS interface congestion is assigned
 - Article 5.0 CTS Enabled Interface Ramp Limits
 - CTS Enabled Interface Ramp Limits
 - Transfer Limits Reflecting Reliability Conditions
 - Establishing Transfer Limits for RTC
 - Interaction Between Transfer Limits and Ramp Limits
 - Article 6.0 Settlement Provisions
 - Each area performs independent real-time settlement based on respective Tariffs
 - CTS interface congestion will be added to NE Roseton Proxy LMP and NY Sandy Pond Proxy prior to ISO-NE settlement



- Schedule D New for CTS
 - Article 7.0 Non-Standard CTS Operation
 - Describes the permitted modifications to ISO-NE Supply Price Points and ISO-NE Transfer Limits during various failure conditions
 - Provision describing when a CTS interface may be scheduled only on an hourly basis
 - Article 8.0 Joint Energy Scheduling System Customer Service; Maintenance; Suspension of CTS; Cooperation
 - Each Party is the primary contact for its respective Market Participants
 - Areas will coordinate maintenance that may impact CTS processes
 - Under extreme conditions the Parties may need to suspend the normal CTS scheduling processes.
 - In such conditions, the Parties will agree to an interchange schedule
 - The Parties agree to review the data and mutually identify or resolve errors and anomalies



- Schedule D New for CTS
 - Article 9.0 CTS Change Management Process
 - Provisions for coordinating future changes that may impact CTS processes
 - Article 10.0 Audits, Certification and Testing
 - Provisions to exchange certification, audit information, and SOC report information associated with CTS related software
 - Provision addressing cyber-security and obligation to inform other Party of CTS-related cyber-security breaches
 - Provision obligating parties to test CTS processes and software prior to implementation and upon making major changes

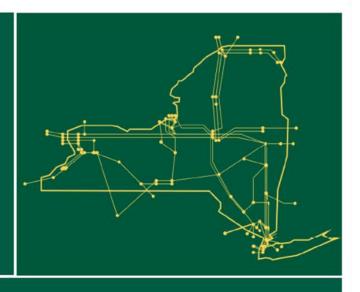


Next Steps

- Coordination Agreement & Tariff
 - MIWG (March 2015)
 - MIWG (April 2015)
 - MIWG (May 2015)
 - BIC (June 2015)
 - MC (July 2015)
 - BOD (August 2015)
 - Filing (August 2015)
 - FERC Approval (October 2015)



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.



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