

CTS Status Update

James Pigeon

Market Product Specialist, Energy Market Design New York Independent System Operator

Market Issues Working Group

October 14, 2014 NYISO KCC Conference Center



What is CTS? The Concept

Coordinated Transaction Scheduling (CTS)

A new protocol that allows market participants to schedule energy based on projected price differences between market areas.



Why CTS? The Benefits

Coordinated Transaction Scheduling (CTS)

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

Price Convergence

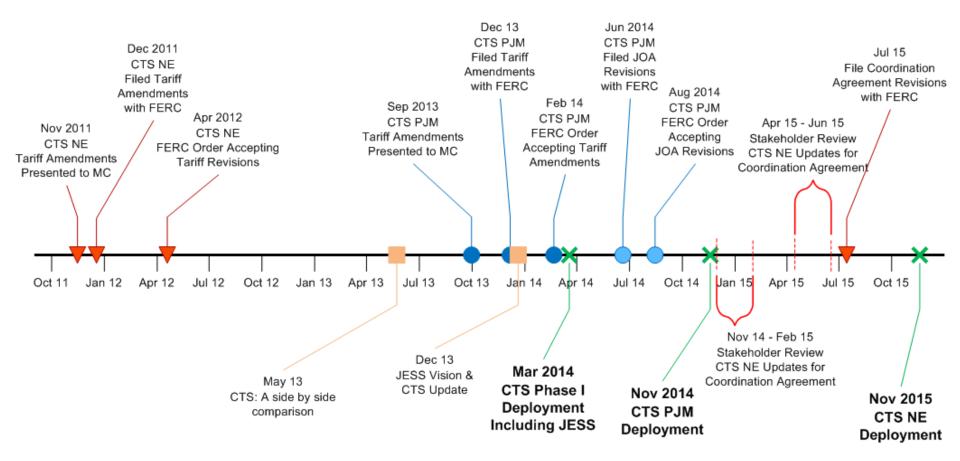
CTS will allow market participants to schedule based on the price difference between the NYISO and the neighboring ISOs, thereby improving the arbitrage opportunities.

Efficiency Impact

CTS will improve the convergence of energy prices throughout the regions resulting in more efficient utilization of existing transmission capability.



When is CTS? The Timeline





Common CTS Elements

Scheduling Horizon

- Import and Export schedules will be established 15 minutes before the schedule flows
- Wheel-Through schedules will continue to be established 45 minutes before the schedule flows

Make Whole Payments

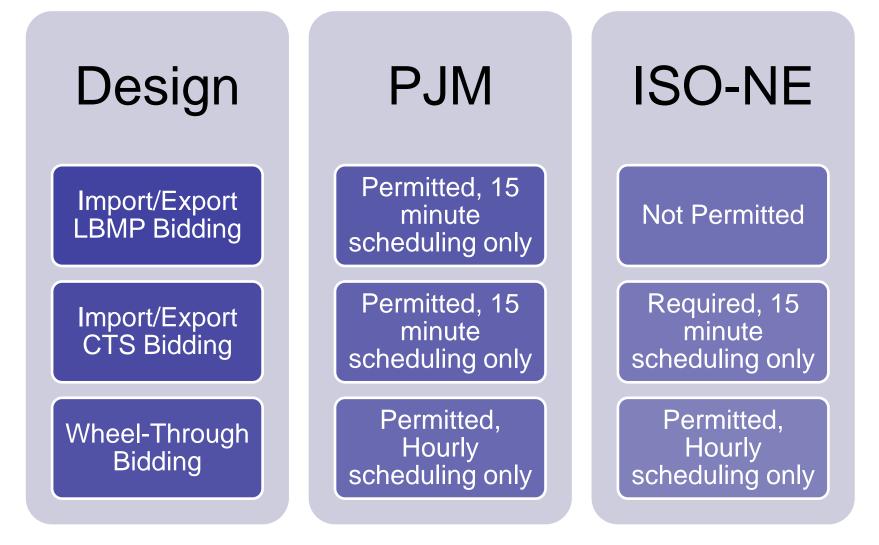
• Not Offered

Import Curtailment Guarantees

• Not Offered

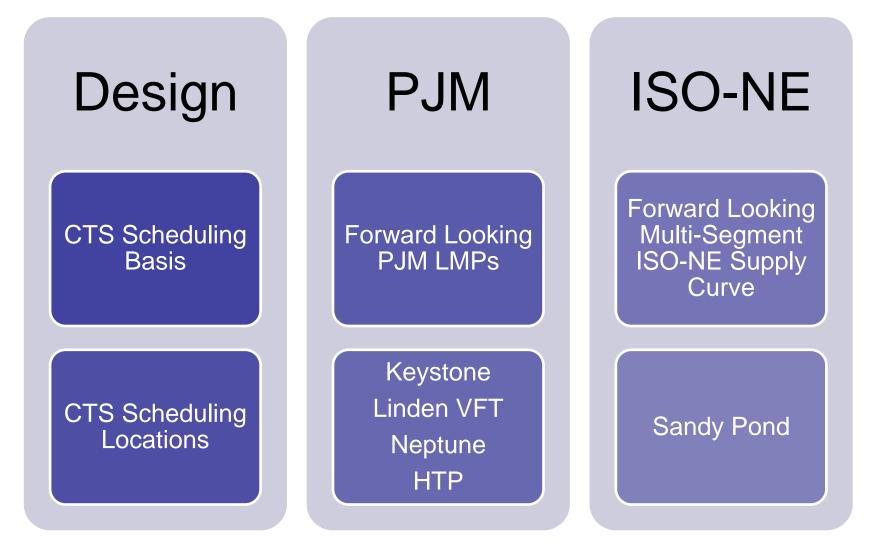


CTS Design Differences



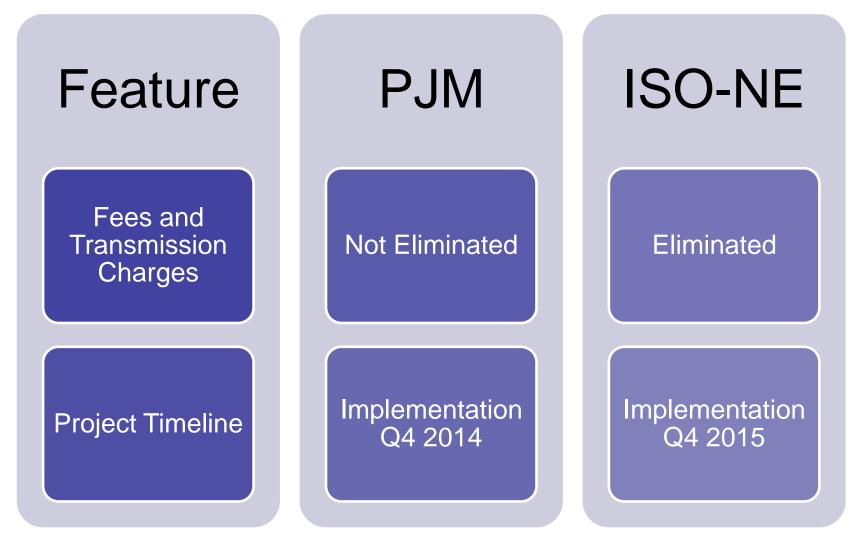


CTS Design Differences





CTS Design Differences





Useful Links

- Coordinated Transaction Scheduling (CTS): Tariff Amendments, November 29, 2011
 http://www.nyiso.com/public/webdocs/markets_operations/committees/mc/meeting_materials/2011
- Proposed Tariff Amendments to Add External Coordinated Transaction Scheduling Market Rules and Request for Waiver, December 28, 2011
 http://www.nyiso.com/public/webdocs/markets_operations/documents/Legal_and_Regulatory/FERC

Filings/2011-1999/2011/Dec

- Order Accepting Tariff Revisions, April 19, 2012
 http://www.nyiso.com/public/webdocs/markets_operations/documents/Legal_and_Regulatory/FERC_Orders/2012/Apr
- Special Pricing Rule Updates for CTS, March 26, 2013
 <u>http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2</u>
 013-03-26
- Coordinated Transaction Scheduling (CTS) between NYISO & PJM Fourth Joint Meeting, June 25, 2013

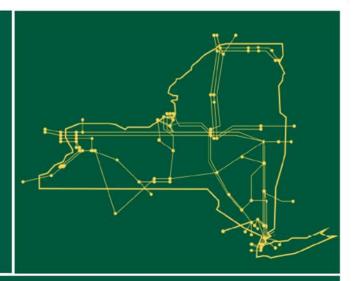
http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2 013-06-25/CTS%20NY+PJM%2006192013%20FINAL.pdf

• Coordinated Transaction Scheduling (CTS)- NYISO & PJM: Tariff Language Review, September 30, 2013

http://www.nyiso.com/public/webdocs/markets_operations/committees/mc/meeting_materials/2013-09-30/CTS%20PJM%20MC%2009302013%20FOR%20PRESENTATION.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