# Northeast Seams Report

# **Update on Northeast Seams Issues**

April 14, 2009 NYISO Business Issues Committee Meeting





# **Status of Seams Projects**

#### Current Deliverables

Project	Description
1. Intra-Hour Transaction Scheduling	<ul> <li>NYISO and ISO-NE have documented a technical definition of a virtual regional dispatch process and have received potentially viable alternative methodologies from their stakeholders. The ISOs will proceed with further stakeholder meetings to finalize the technical definition and to work towards a joint stakeholder acceptance of the proposal.</li> </ul>
	<ul> <li>NYISO and ISO-NE issued a report on the first pilot test on October 24, 2005. A joint meeting of NY and NE stakeholders to review the pilot test report and further develop market participant based proposals for improving the efficiency of the NYISO/ISO-NE interface was held on Nov. 14. Based on discussions at that meeting, ITS will be considered along with other market issues as part of the rules assessment initiative currently underway.</li> </ul>
	NYISO conducted a limited analysis of inter-market real-time transaction scheduling in 2007, in support of an assessment of real-time scheduling and compensation market rules. However, in 2008, that assessment of real-time market rules will focus on issues associated with generation scheduling, dispatch, and compensation. NYISO expects to re-evaluate the projected benefits of an ITS program in 2008, updating an earlier analysis to reflect current market conditions. If that analysis suggests the potential for substantial benefits for NYISO participants, NYISO will work with ISO-NE to determine the feasibility of moving forward with solution design and implementation.

# **Status of Seams Projects**

#### **Current Deliverables**

Project	Description
1. Intra-Hour Transaction Scheduling (continued)	• In 2008, NYISO and ISO-NE expect to jointly perform an analysis of the impact of uneconomic interchange between the NYISO and ISO-NE control areas. This analysis will attempt to identify the potential economic benefits of more efficient use of available interface transfer capacity. NYISO and ISO-NE will work together to identify market mechanisms that can lead to more efficient scheduling and dispatch across the interface between control areas.
	The NYISO's 2007 State of the Market Report provides an analysis of scheduling and pricing patterns at the NYISO's interfaces with neighboring control areas. This analysis indicates that there is an opportunity to increase the efficient use of transfer capacity during unconstrained periods resulting in both production cost and net consumer benefits in both control areas. The analysis indicates that reducing the transaction scheduling lead time would enable market participants to more efficiently schedule transactions. The report recommends the development of processes to improve coordination between the ISOs even if only during limited circumstances, such as reserve shortages.

## Status of Seams Projects Current Deliverables

Project	Description
2. Regional Resource Adequacy - RAM	The NYISO has engaged NERA to develop a conceptual forward market design. NYISO forward capacity market initial design alternatives were presented to stakeholders in Dec. 2007 - Feb. 2008. At the joint NYISO Board of Directors Management Committee meeting on June 10, 2008 market participants expressed a range of views on alternative forward capacity market designs. The conceptual design for FCM was presented to MPs on August 28th, with additional design details presented at subsequent ICAPWG meetings from October to the present.
	<ul> <li>Work on remaining design elements will continue in Q1-2009, with expected review through the NYISO governance process in Q2-2009.</li> </ul>
	<ul> <li>Most recently, at the March 19, 2009 ICAP Working Group meeting, the NYISO presented details on qualifications and milestones for new entry to participate in a forward procurement auction, In-City mitigation, credit requirements, settlement rules and seasonal variations issues associated with the forward capacity market design proposal, and revisions to the demand curve setting process.</li> </ul>
	• In Q1 2009, the NYISO engaged The Brattle Group to conduct a comparison of the costs and benefits of the contemplated forward capacity market design to the NYISO existing capacity market. The Brattle Group's analysis will include information received during stakeholder sector focus group meetings it will conduct in April 2009. The Brattle Group's draft report will be presented at the NYISO's ICAP Working Group meeting on May 8, 2009, and the final report will be presented at the June 5, 2009 ICAP Working Group meeting.

# Status of Seams Projects Current Deliverables

Project	Description
2. Regional Resource Adequacy - RAM (continued)	The NYISO plans to present a forward capacity market proposal to the Business Issues Committee for vote. The outcome of that vote will determine the degree to which resources are committed to fully develop FCM market rules and tariff language.

#### Recent Initiatives

Project	Description
3. Cross-	<ul> <li>Linden VFT, a 300MW injection from PJM to NYISO is targeted to begin operations during</li></ul>
Border	the third quarter 2009 with full operation targeted for the fourth quarter of 2009.
Controllable	<ul> <li>Details on the operation, transmission reservations, and Tariff changes for the Linden VFT</li></ul>
Line	were presented at MIWG teleconferences on January 26 & 30, 2009.
Scheduling	<ul> <li>Tariff changes necessary to support implementation of the Linden VFT in the energy market were passed at the February 25, 2009 Management Committee meeting, were approved by the NYISO Board on March 17th and will be filed with FERC. NYISO will work with PJM and Con Ed to ensure emergency operating protocols are in place prior to operation of the Linden VFT Scheduled Line.</li> </ul>

Recent Initiatives (continued)

Recent initiatives (continued)	
Activity	Description
1. COORDINATION OF INTERREGIONAL PLANNING	• The draft NCSP was posted on January 9, 2009 and an IPSAC conference call was held on January 30, 2009 to discuss comments on the draft Plan and to receive further input from stakeholders regarding continuing studies of interregional system assessments and system improvements. Following these two IPSAC meetings a final comment period was concluded on February 4 and the final NCSP was posted on March 3, 2009. The final NCSP is a comprehensive document that discusses: summaries of the RTO's system plans, interregional studies conducted by the JCSP that include the coordination of projects in the Queues having potential interregional impacts, additional coordinated planning activities and issues, wind and renewable resource studies, key environmental issues with potential interregional impacts, renewable resource development, demand side resource development, and plans for additional JIPC analysis.
	<ul> <li>Next steps planned are summarized in the NCSP. In particular, NYISO and PJM will be conducting both reliability and production cost analysis which will focus on the New Jersey – Southeast New York area during 2009. In addition new tie lines are being explored, including further analysis between ISO-NE and NYISO, as well as their respective transmission owners, that builds upon the prefeasibility study of a tie between Plattsburgh and Vermont. Upon completion of these studies, plans call for conducting a feasibility analysis of the need for a new tie between southern New England and Southeast New York.</li> <li>The status of these and other issues, such as environmental, wind integration, and the expansion of the PJM EHV backbone, will be discussed at the next IPSAC meeting planned for late 2nd Quarter 2009.</li> </ul>

#### Recent Initiatives

Activity	Description
2. INTERREGIONAL CONGESTION MANAGEMENT	<ul> <li>NYISO and PJM are evaluating a coordinated bilateral Congestion Management Process concept. PJM and NYISO met on April 12-13, 2007 and discussed possible opportunities for coordination. This intent of this activity is to develop a concept that enables optimal dispatch between control areas such that one control area may alleviate congestion in the other. A straw-man proposal is planned to be developed by late 2007 with market participant review planned for early 2008.</li> <li>NYISO and PJM are evaluating a coordinated bilateral Congestion Management Process concept. The intent of this activity is to develop a concept that enables optimal dispatch between control areas such that one control area may alleviate congestion in the other. NYISO continues to work with PJM on the development of a feasible process. NYISO presented a Congestion Management process overview to market participants at the December 14, 2007 Market Issues Working Group.</li> <li>PJM and NYISO had a productive meeting on January 29th, 2008 to continue discussions on a potential congestion management process. More specifically, the parties reviewed RTO to RTO redispatch examples, interaction between any new process and existing PJM NYISO agreements and potential data exchanges. It is PJM's and NYISO's intent to complete the development of a conceptual design for a</li> </ul>
	congestion management process and present this to stakeholders by the end of 2008.

#### Recent Initiatives

	Activity	Description
2.	INTERREGIONAL CONGESTION MANAGEMENT (continued)	PJM and NYISO have held several meetings in the first half of 2008 to develop a conceptual design for implementing a coordinated congestion management process. These discussions have focused on the overall design, potential operational procedures and data coordination protocols necessary to integrate a congestion management process. The last meeting between the design teams occurred on April 9th, 2008. The design teams are scheduled to meet in December and will continue work on the development of a conceptual design serving the needs of both control areas with the intent of bringing a proposal forward for MP review at an appropriate time.
		<ul> <li>NYISO and PJM staff met on December 12, 2008 to continue discussions on a congestion management process.</li> </ul>
		On February 12th NYISO hosted a technical conference for market participants, with representatives from PJM, MISO, IESO and ISO-NE participating, to discuss design considerations and take stakeholder feedback on the development of an Interregional congestion management process. NYISO and PJM staffs have met to discuss the details of performing the market flow calculation and have begun the internal evaluation of identifying the necessary data to be shared to support that process.



#### **Issues Pending Further Discussion**

Issue	Description
3. Reserves Participation in Adjacent Regional Markets	There is Market Participant interest in selling operating reserves from generation sources in one region to provide reserves in another region. This issue will be considered along with other longer-term market issues as part of the NYISO Market Evolution Plan, which was presented to NY stakeholders in June 2005. Since late 2005, the NYISO's Market Evolution Plan is part of its strategic planning process. The NYISO suggested this item to its Market Issues WG for stakeholder discussion and prioritization. Following implementation (October 2006) and assessment of their reserve market, ISO-NE will consider inter-control area provision of reserves.

#### Issues Pending Further Discussion (continued)

Issue	Description
4. Congestion Rent Shortfalls Resulting From External Transmission Outages	<ul> <li>Transmission outages or deratings occurring outside of the NYCA that are not anticipated at the time of a TCC auction can force the NYISO to reduce the assumed transfer capability between the NYCA and the adjacent control area. If the resulting set of TCCs are rendered infeasible, the NYISO will incur congestion rent shortfalls in the day-ahead market. There is currently no way to assign the cost impact (due to the congestion rent shortfall) of that outage to the responsible external transmission owner. In addition, transmission outages or deratings that cause reductions in transfer capability between regions may have an impact on ICAP sales between regions. NYISO Senior Management will evaluate project, scheduling and budget impacts in conjunction with all other identified initiatives and determine what further action will be taken.</li> <li>NYISO will evaluate this issue as part of NYISO's market rules assessment initiative.</li> </ul>

#### Issues Pending Further Discussion (continued)

Issue	Description
5. Elimination of Rate Pancaking	<ul> <li>The NYISO, with the support of the New York TOs, will initiate discussions among the affected parties in the Northeast to explore the potential for rate pancaking relief between New York and PJM. A meeting between the NY and PJM TOs was held on August 18, 2005 to initiate discussions on this issue. With the Transmissions Owners as the primary drivers of this issue, NYISO and PJM are awaiting indications of intent from PJM's TOs as to the level of priority this issue has with the TOs. PJM has supply transaction data regarding volume and rates for PJM exports into NY.</li> <li>The NYISO has also initiated discussions with IESO to eliminate export fees. The revenue application review process for the transmitter that owns the inter-tie transmission lines in</li> </ul>
	Ontario, and is responsible to the provincial regulator for this fee, is currently ongoing. The possibility of eliminating the transmission export fee, along with other options, is being discussed at this rate hearing. The decision on the transmitter's revenue application is expected to be given in May of 2007.
	The Ontario Energy Board recently upheld the \$1/MWh export charge from IESO. However, the IESO will be (1) conducting a study on appropriate export transmission service rates for Hydro One Networks' 2010 rate process; and (2) will start negotiations with the NYISO to pursue a reciprocal arrangement to eliminate export charges. The IESO will begin discussions with its neighbors early in 2008 and will complete its market impact studies in 2009. The Ontario Energy Board must approve any changes to Hydro One's export transmission charges.



## **Issues Pending Further Discussion**

(continued)

Issue	Description
6. Limitations Due to Loss of Large Source (continued)	• A status of detailed loss of source studies was presented at the December 11, 2008 IPSAC meeting. With the addition of the planned 500kV improvements by 2012, the loss of source limit will likely be constrained by limitations in the PJM system to the 1,500 MW level. The New York constraint will become less binding than the PJM constraint at that time. Loss of source analysis is continuing as a part of other interregional studies, such as the NY-VT tie, and the NJ- Southeast NY studies. The loss of source issues and studies are summarized in the NCSP.



### **Issues Pending Further Discussion**

(continued)

Issue	Description
7. Long-Term Solution for Unscheduled Lake Erie Loop Flows	<ul> <li>Unscheduled power flows, particularly around Lake Erie, can negatively impact both electric system reliability and market operations. The NYISO is conducting a comprehensive investigation of transaction scheduling and pricing protocols and incentives in order to assist its efforts to work with PJM, MISO and IESO to develop an alternative long-term solution to address mitigate the market and reliability impacts of unscheduled Lake Erie power flows. The results of this ongoing analysis have been, and will continue to be, shared with stakeholders to facilitate an informed discussion of a viable long term solution for managing loop flow.</li> <li>Representatives from NYISO, PJM, IESO and MISO met on March 23, 2009 to address the development of solutions to mitigate loop flows. Discussion of the underlying causes of loop flow and the process for sharing data to further the analysis were discussed</li> </ul>