

**Northeast ISOs  
Seams Resolution Report  
History of Seam Issues Resolution**

**Broader Regional Markets**

**P21 NORTHEAST GENERATOR ATTRIBUTES TRACKING (GAT) SYSTEM**

Green power suppliers need transparent and efficient tracking of the attributes of green power traded across the ISOs that assures that no double counting occurs.

- NY is working with market participants to determine the suitability of adapting the New England Generator Information System (GIS) to New York markets. The NYISO has been actively participating in the NY Dept. of Public Service hearings on a Renewable Portfolio Standard, where attributes trading is identified as a necessary and desirable condition. On September 24, 2004, the New York State Public Service Commission (PSC) issued its Order on the Renewable Portfolio Standard that outlines a centralized procurement process for renewables. A workshop on the need for a GATS system, sponsored by the PSC and New York State Energy Research and Development Authority (NYSERDA), was held on July 14, 2005. On September 21, 2005, the PSC issued a State Administrative Procedure Act (SAPA) notice stating that it is considering authorizing PSC Staff and NYSEERDA, in consultation with the NYISO, to begin the design of a certificate-based tracking and trading system. In the RPS Program January 26, 2006 Order in Case 03-E-0188, the New York Public Service Commission expressed its inclination to modify the current Environmental Disclosure Program to include an attributes accounting system similar to systems used in other states. The NYISO, NYPSC, and NYSEERDA met on December 19, 2006 to discuss the PSC's implementation schedule and to review the potential involvement of the NYISO in such a system.
- NYISO is supporting the NYSEERDA and NYDPS staff effort to develop a comprehensive set of functional requirements for a New York GATS. (Q2-2009)
- The IESO is awaiting direction from government before proceeding further on this initiative.
- PJM Environmental Information Services Inc (PJM-EIS), a wholly owned subsidiary of PJM Technologies, launched its Generation Attribute Tracking System (GATS). The system was placed in service in September 2005. The system is now being used by PJM LSEs to demonstrate compliance with RPS programs in five PJM jurisdictions (NJ, MD, DC, DE, and PA ). As of March 2008 there are 181 subscribers and 342 registered renewable generators in GATS. 22 of these registered renewable generators are located outside of PJM in regions where a tracking system does not currently exist. Each of these external facilities has qualified for one or more PJM-state RPS programs, and GATS facilitates their participation and enhances their liquidity.
- In July 2002, the New England Power Pool (NEPOOL) launched the NEPOOL Generation Information System (GIS). This system tracks the generation attributes, emissions, and outputs of all generators in New England. The system also facilitates the trading of renewable energy certificates (REC) for states with renewable energy portfolio standards (RPS). Consistent with current New England state requirements, NEPOOL's Generator Information System Operating Rules recognize the need to track the attributes of all energy transmitted between New England and other ISOs. Under those rules, energy transactions with unit-specific NERC Tags are given the attributes of the particular generating station while all other energy transactions are given attributes of the system mix of the exporting control area.

- The NEPOOL GIS was the first tracking system in the nation to support multi-state RPS programs. The PJM-EIS GATS was designed on the basis of the NEPOOL GIS. Although there are some functional differences, the two systems are compatible in architecture, core functionality and look-and-feel.

#### **P24 CROSS-BORDER CONTROLLABLE LINE SCHEDULING**

NYISO software will be designed or modified to model Controllable Lines across control areas through an external proxy bus, providing market participants with the ability to bid to or from the new proxy bus in the Day-Ahead Market and schedule transactions in real-time. NYISO and ISO-NE operators will have the ability to monitor a Controllable Line and curtail transactions on the line.

- Full market deployment of the Cross-Sound Scheduled Line occurred on June 7, 2005.. The Northport-Norwalk Scheduled Line was implemented on June 27, 2007. The Neptune Scheduled Line was implemented on July 1, 2007. The Dennison Scheduled Line was implemented in the NYISO's markets on October 1, 2008.
- Details on the operation, transmission reservations, and Tariff changes to support implementation of the Linden VFT Scheduled Line in the New York energy market were presented at the NYISO's MIWG teleconferences on January 26 and 30, 2009. Tariff changes necessary to support implementation of the Linden VFT in the energy market were passed at the NYISO's February 25, 2009 Management Committee meeting, were approved by the NYISO Board on March 17<sup>th</sup> 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.
- The NYISO Tariff changes to support the implementation of the Linden VFT in the NYISO energy markets were approved by FERC on May 27, 2009. (Q2-2009)
- Test flows of power on the Linden VFT began on September 16, 2009. Commercial operation is targeted to begin on November 1, 2009. The NYISO will provide notice to FERC and to its Market Participants at least two weeks prior to commencing commercial operation over the Linden VFT Scheduled Line. (Q3-2009)
- The Linden VFT was placed into commercial service on November 1, 2009. (Q4-2009)

#### **P33 INTERREGIONAL CONGESTION MANAGEMENT**

NYISO and PJM are evaluating a coordinated bilateral Congestion Management Process concept. PJM and NYISO met in April and May 2007 and discussed possible opportunities for coordination. The main 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. Any PJM-NYISO congestion management results are expected to be shared with ISO-NE. PJM and NYISO met in September 2007 to continue discussion of possible opportunities for coordination.

- 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.
- 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 congestion management process and present this to stakeholders by the end of 2008.
- 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 9<sup>th</sup>, 2008. The ISOs 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 by the end of 2008.
- The Commission issued an order November 17, 2008, approving NYISO's exigent circumstances/loop flow tariff filing in Docket No. ER09-198-001. In this order, the Commission directs NYISO to work with its market participants, NERC, and neighboring RTOs to develop potential solutions to the loop-flow problem on a comprehensive basis through a collaborative process. The Commission also directs the NYISO, within 90 days of the date of the order, to file a status report on its progress in developing solutions to the loop flow problem, including an inter-RTO congestion management process. NYISO and PJM staff met on December 12, 2008 to continue discussions on a congestion management process.
- On February 12, 2009, 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. The NYISO's 90 Day Status Report on Development of Solutions to Loop Flow and Development of Inter-ISO/RTO Congestion Management Process was filed on February 17, 2009.
- PJM and NYISO continue to work on the development of a market flow calculation tool. The development of a unified approach to the calculation of market flows across regions is required in order to evaluate the implications of the use of historic entitlements in a congestion management process. The NYISO presented an overview of activities in support of the development of a congestion management process at the June 26, 2009 Market Issues Working Group (MIWG) meeting. (Q2-2009)
- At the September 1, 2009 Market Issues Working Group (MIWG) meeting, the NYISO provided an update on efforts to develop a congestion management process. The current effort is focused on development of the market flow calculation tool and identification of the appropriate baseline for measuring relief provided as part of the settlement process. As noted in the presentation, the plan calls for implementation of the market flow calculation tool in 2010 with full implementation of a congestion management process between NYISO and PJM in 2011 and implementation with additional neighboring control areas in 2013. Also included in this presentation is a schedule for the development of these proposals to support a January 2010 filing with FERC. The presentation can be found at

[http://www.nyiso.com/public/webdocs/committees/bic\\_miwg/meeting\\_materials/2009-09-01/MIWG\\_Market\\_Solutions\\_to\\_Loop\\_Flow.pdf](http://www.nyiso.com/public/webdocs/committees/bic_miwg/meeting_materials/2009-09-01/MIWG_Market_Solutions_to_Loop_Flow.pdf). (Q3-2009)

- The NYISO hosted a joint technical conference on Broader Regional Markets - Solutions to Loop Flows for stakeholders from PJM, IESO, MISO and NYISO markets on October 29, 2009. The Midwest ISO held a follow up technical conference on December 15, 2009. The focus of the technical conferences was the development of market-based solutions to address loop flow. Three market based solutions, Buy-Through of Congestion, Congestion Management (Market-to-Market Coordination) and Interregional Transaction Coordination were presented to stakeholders. A draft white paper was circulated prior to the first technical conference. A second draft is available and posted on the Midwest-ISO's web site. This paper outlines the fundamental power system dynamics responsible for loop flow, previous efforts on the part of utilities, system operators, and reliability coordinators to address loop flows and a discussion of physical phase angle regulator (PAR) and market based solutions. The four ISO/RTO market operators provided a series of presentations on both physical and market based solutions to stakeholders and solicited feedback on the proposed market based solutions. The NYISO plans to file report with FERC in mid-January 2010 detailing proposed solutions to address loop flows based on the outcome of these discussions. (Q4-2009)
- The NERC Interchange Distribution Coordination (IDC) Working Group is working on the development of an IDC calculation tool that would provide a common application for the calculation of market flows on transmission facilities across control areas. Vendor selection for development of this tool is underway with a goal of having the application on-line by November 1, 2010. The information provided by this tool would be used to implement the inter-control area congestion management and buy-through-of-congestion processes. (Q4-2009)

### **P36 LONG-TERM SOLUTION FOR UNSCHEDULED LAKE ERIE LOOP FLOWS**

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 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.

- 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.
- NYISO met with PJM in June 2009 to discuss their experience with a process that allows MPs to "buy through" TLRs. The NYISO is exploring this process as a potential solution to manage loop flows on a long term basis. The NYISO expects to provide an update on the development of a solution to address loop flow at a future Market Issues Working Group (MIWG) meeting. (Q2-2009)
- The NYISO is working on the development of a "buy-through of congestion" approach to manage the cost of loop flows. This would require a collective solution among all of the ISO and RTO markets surrounding Lake Erie to manage scheduling data and settlement impacts, firm transmission and the potential for free-riders. This approach would entail charging parties scheduling transactions for the cost of congestion incurred by neighboring systems to support flows on systems that are not part of the direct scheduling path for the transaction. A presentation providing additional details on this approach

can be found at [http://www.nyiso.com/public/webdocs/committees/bic\\_miwg/meeting\\_materials/2009-09-01/MIWG\\_Market\\_Solutions\\_to\\_Loop\\_Flow.pdf](http://www.nyiso.com/public/webdocs/committees/bic_miwg/meeting_materials/2009-09-01/MIWG_Market_Solutions_to_Loop_Flow.pdf). (Q3-2009)

- FERC's July 16, 2009 Lake Erie Report/Order orders the NYISO to "expeditiously develop long-term comprehensive solutions to the loop flow problem with its neighboring RTOs, including addressing interface pricing and congestion management. NYISO is required to submit a compliance filing to FERC detailing its proposed solution, including necessary Tariff revisions by mid-January 2010. Executives from PJM and the NYISO met on August 12, 2009 to address the July 16, 2009 FERC order, physical solutions and market solutions to address circuitous transaction schedules. (Q3-2009)
- On September 16, 2009, FERC issued an Order Granting Clarification to the NYISO request for clarification or rehearing of the Commission's order issues July 16, 2009. In this Order, FERC states "we clarify here that NYISO must address, in its 180-day report, all solutions to the Lake Erie loop flow problem, including but not limited to: (i) the implementation status of the Ontario-Michigan PARs; (ii) the progress that has been made on the operating agreements for the Ontario-Michigan PARs; and, (iii) the complementary role that physical controls will play in the comprehensive solution to the Lake Erie loop flow problem." (Q3-2009)
- Representatives from Midwest ISO, NYISO, IESO and PJM have conducted a series of conference calls on August 27, September 3 and September 10 followed by an in-person meeting on September 14 to discuss the development of solutions to mitigate loop flows around Lake Erie. These conference calls discussed the implementation status of the Ontario-Michigan PARs, improvements to the process for sharing data to support further loop flow analysis, and solutions to support the development of broader regional markets. (Q3-2009)
- A white paper addressing the development of broader regional markets is being written. The white paper will address solutions to loop flows (both physical and market based,) congestion management and interregional transaction coordination. This white paper is expected to be the focal point of discussion for a joint ISO-stakeholder meeting scheduled for October 29, 2009 in Albany, New York. (Q3-2009)
- The NYISO hosted a joint technical conference on Broader Regional Markets - Solutions to Loop Flows for stakeholders from PJM, IESO, MISO and NYISO markets on October 29, 2009. The Midwest ISO held a follow up technical conference on December 15, 2009. The focus of the technical conferences was the development of market-based solutions to address loop flow. Three market based solutions, Buy-Through of Congestion, Congestion Management (Market-to-Market Coordination) and Interregional Transaction Coordination were presented to stakeholders. A draft white paper was circulated prior to the first technical conference. A second draft is available and posted on the Midwest-ISO's web site. This paper outlines the fundamental power system dynamics responsible for loop flow, previous efforts on the part of utilities, system operators, and reliability coordinators to address loop flows and a discussion of physical phase angle regulator (PAR) and market based solutions. The four ISO/RTO market operators provided a series of presentations on both physical and market based solutions to stakeholders and solicited feedback on the proposed market based solutions. The NYISO plans to file report with FERC in mid-January 2010 detailing proposed solutions to address loop flows based on the outcome of these discussions. (Q4-2009)

### **P37 ENHANCED INTERREGIONAL TRANSACTION COORDINATION**

The NYISO is leading an effort to develop enhanced interregional transaction capabilities at its borders with neighboring control areas. This enhancement would allow market participants to submit flexible transaction bids for evaluation on an intra-hour basis leading to sub-hourly adjustment of transaction schedules and

interchange between control areas. This capability would support convergence of scheduled interchange with pricing patterns between control areas. It would also expand the pool of flexible resources available to balance intermittent generation between control areas and improve transmission utilization and price consistency between control areas. Implementation would take place in phases in conjunction with neighboring control areas.

- At the September 1, 2009 Market Issues Working Group (MIWG) meeting, NYISO provided an overview of the enhanced interregional transaction scheduling capability. The presentation can be found at: [http://www.nyiso.com/public/webdocs/committees/bic\\_miwg/meeting\\_materials/2009-09-01/Enhanced\\_Interregional\\_Transaction\\_Coordination\\_Concept.pdf](http://www.nyiso.com/public/webdocs/committees/bic_miwg/meeting_materials/2009-09-01/Enhanced_Interregional_Transaction_Coordination_Concept.pdf). This presentation includes an overview of energy bidding, scheduling, pricing, settlement and NERC tag changes necessary for the initial phase of this project supporting intra-hour energy transactions at the NYISO-HQ interface and additional details regarding the schedule for further review with stakeholders. (Q3-2009)
- The NYISO hosted a joint technical conference on Broader Regional Markets - Solutions to Loop Flows for stakeholders from PJM, IESO, MISO and NYISO markets on October 29, 2009. The Midwest ISO held a follow up technical conference on December 15, 2009. The focus of the technical conferences was the development of market-based solutions to address loop flow. Three market based solutions, Buy-Through of Congestion, Congestion Management (Market-to-Market Coordination) and Interregional Transaction Coordination were presented to stakeholders. A draft white paper was circulated prior to the first technical conference. A second draft is available and posted on the Midwest-ISO's web site. This paper outlines the fundamental power system dynamics responsible for loop flow, previous efforts on the part of utilities, system operators, and reliability coordinators to address loop flows and a discussion of physical phase angle regulator (PAR) and market based solutions. The four ISO/RTO market operators provided a series of presentations on both physical and market based solutions to stakeholders and solicited feedback on the proposed market based solutions. The NYISO plans to file report with FERC in mid-January 2010 detailing proposed solutions to address loop flows based on the outcome of these discussions. (Q4-2009)
- NYISO expects to provide an update on the development enhanced interregional transaction coordinating capabilities at the January 5, 2010 Market Issues Working Group meeting (MIWG.) The NYISO plans to seek stakeholder approval for phase 1 of this project, which would include intra-hour dispatchable energy transactions between the New York and HQ control areas, and pursue implementation in 2010. Discussions with ISO-NE and PJM regarding opportunities to achieve more efficient scheduling outcomes through increased coordination and frequency of scheduling decisions has begun. (Q4-2009)

#### **14 REDUCED LEAD TIME FOR IN-DAY TRANSACTION SCHEDULING (NY)**

NYISO market participants have expressed a desire to reduce the lead time for submission of real time transactions below the 75-minute limit currently in effect. This feature will also be considered as part of the NYISO rules assessment initiative currently underway. (July 2003)

- At the March 20, 2009 Market Issues Working Group the NYISO presented an overview of the current 75-minute bid lockdown. Scheduling of transaction for the next hour and 30-minute gas turbine commitments are the primary reason for this timetable. Some market participants have speculated that reducing this window would permit less expensive resources to be scheduled, however, NYISO is not aware of any changes in costs for resources that are unable to be represented prior to the 75 minute bid lockdown. As the NYISO currently evaluates every 15 minutes for the least cost solution, the NYISO sees no demonstrable benefits of reducing the bid lockdown. Subsequently, NYISO does not endorse reducing the current 75-minute window due to potential negative impacts resulting from a less secure bid set.

**16 RESERVES PARTICIPATION IN ADJACENT REGIONAL MARKETS (NY-NE-HQ)**

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. (April 2004).

- Reliability issues related to inter-area reserve have been addressed at the NPCC level, and concepts have been approved to be placed in NPCC Criteria documents.
- Two alternatives were explored. One was an expansion of existing ISO-NE/NYISO reserve sharing agreements, which was rejected because it would meet reliability interests but not market interests. The second alternative was preferred in that it would give access to external reserve resources to the ISO-NE and NYISO markets and would allow competition for the provision of reserve reliably and on a comparable basis.
- ISO-NE and NYISO have had preliminary implementation discussions, but the effort is presently on hold due to manpower limitations and awaits prioritization for implementation. ISO-NE's ability to aggressively pursue this initiative is very much dependent on the final schedules for completion of major market initiatives currently under way or pending FERC decisions and on the results of the collaborative priority setting process that ISO-NE conducts with its stakeholders.

**17 THE IMPACT OF EXTERNAL TRANSMISSION OUTAGES ON CONGESTION RENT SHORTFALLS AND ICAP MARKETS (NY-NE)**

In the TCC auctions that it conducts, the NYISO permits bidders for TCCs to specify external proxy generator buses as the injection or withdrawal locations. 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 is 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. TCCs in New York are fully funded, therefore the New York Transmission Owners are exposed to revenue shortfalls when transfer capability is reduced by external outages outside of their control. In addition, transmission outages or deratings that cause reductions in transfer capability between regions may have an impact on ICAP sales between regions. Due to the emphasis on evaluating SMD2 performance subsequent to deployment in February 2005, NY deferred stakeholder discussion on this issue. 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. (Oct 2004)

**18 ELIMINATION OF RATE PANCAKING**

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 Transmission 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 PJM's TOs. On November 02, 2006, PJM supplied transaction data regarding volume and rates for PJM exports into NY.

- 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 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. In May 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 and other neighboring jurisdictions to pursue reciprocal arrangements 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.

#### **I14 Asymmetric Capability Year Impact on Inter-Area Capacity Sales**

The NYISO capability year begins May 1st, while the capability years for both PJM and ISO-NE begin on June 1. The election to use Unforced Deliverability Rights (UDRs) for controllable tie-line capacity at an interface with an external control area is factored into the NYISO's annual planning process determining locational capacity requirements. The capacity of a controllable tie-line not used for UDRs may be modeled as emergency assistance in the planning process, subsequently reducing the locational capacity requirement. The one month difference between capability years across the ISOs may be an issue in instances where full capability year obligations or contracted capacity from one control area is transitioned meet requirements in the neighboring control area.

- NYISO and LIPA are discussing potential ways to address the impact for the May 2010 period.
- The NYISO is evaluating a number of options associated with the May/June difference; any option will likely involve changes to NYISO tariffs, manuals, and possibly New York State Reliability Council (NYSRC) rules. The NYISO expects to provide a proposal to MPs in the near future. (Q2-2009)
- NYISO has included a project to consider the extent of market rule changes, software changes and potential operations procedure changes that would be required to align NY's capability year with those of PJM and ISO-NE in its 2010 project candidate list including a recommendation to pursue this initiative. (Q3-2009)
- At the NYISO's December 16, 2009 Management Committee meeting, Market Participants approved revisions to the NYISO's Market Administration and Control Area Services Tariff to revise the Capability Year adjustment election for holders of rights to UDRs. NYISO will continue to pursue the evaluation of market rule, software and operational procedure changes necessary to align the NYISO capability year with neighboring control areas. (Q4-2009)

### **Broader Regional Planning**

#### **P26 COORDINATION OF INTERREGIONAL PLANNING**

To continue to develop ways to improve the coordination of planning for the Northeast region, this project is established to identify future deliverables towards achieving progress in this endeavor. ISO-NE, NYISO and PJM will be presenting the results of their current efforts under the Northeastern Coordination of Planning Protocol. Under the Northeastern Coordination of Planning Protocol, a Northeast group of NYISO, PJM, & ISO-NE called "Joint ISO/RTO Planning Committee" (JIPC) met with market participants at the March 23,

2007 meeting of the Inter-area Planning Stakeholder Committee (IPSAC) and several presentations were made. PJM, NYISO, and ISO-NE are currently exchanging modeling information and load flow analysis such that work completed in 2006 can be expanded in the 2007 work-plan.

- On December 14, 2007 another IPSAC meeting was held by teleconference and web-ex at which the ISOs made presentations on several topics, including: New England Loss of Source Feasibility Study; planned system improvements in each ISO/RTO region; environmental and renewable resource issues. In addition, the ISOs presented their proposed Scope of Work for an inter-regional transmission adequacy study for discussion and stakeholder input. Stakeholders raised additional issues that are currently under consideration. Interim study results for the transmission analysis were discussed with stakeholders at an IPSAC meeting held on June 27, 2008. At this meeting, the ISO/RTOs also reviewed their plans for additional analyses with stakeholders. Plans call for conduct of further transmission studies, and production analyses. An update will be presented to stakeholders at a meeting planned for the 4th quarter 2008. The agenda and meeting materials from the Dec 14, 2007 and the June 27, 2008 meetings are posted at the following link: <http://www.interiso.com/documents.cfm>. Additional materials have been posted by each of the ISO/RTOs on their secure links.
- The integration of over 450 MW (nameplate) of wind resources in the NY North Country is planned for 2009. ISO-NE and NYISO are conducting joint operating studies to ensure reliable operation of the system. These issues were discussed with stakeholders at the June IPSAC meeting.
- During the month of August 2008, high-level meetings were held between NYISO, PJM and ISO-NE to discuss possible expansion of inter-regional planning activities. Follow-up meetings were held.
- An IPSAC meeting was held on December 11, 2008 at which the following items were discussed: the NCSP, the Joint Coordinated System Plan, the North – Country Vermont Study, PJM 500kV Expansion Studies; Environmental Issues, Interregional Wind Integration Issues and Next Steps. Additional presentations demonstrated that Queue studies and other studies have also been well coordinated and resulted in proactive system plans.
- 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.
- Next steps planned are summarized in the NCSP. In particular, NYISO and PJM will be conducting both reliability and production cost analyses which will focus on the New Jersey – Southeast New York area. 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.
- An IPSAC WebEx was held May 7, 2009 to discuss the planned scopes of work and the status of study work. Preliminary results of the Vermont-New York interconnection studies and the NYISO/PJM

focused study reliability analysis were presented to stakeholders at an IPSAC meeting held on June 30, 2009. Other topics presented at this meeting included an overview of other inter-regional planning activities, coordination of studies and databases, an overview of each ISO's economic planning process and plans for development of an inter-regional production costing database for future economic analysis. Economic analysis will include focused studies of the ability to transfer power across the New York - PJM interface. Additional economic analysis will focus on the ability to transfer power across the New York - New England Interface. Once the coordinated data base is fully developed, plans call for conducting economic analysis for the three ISO/RTO regions. (Q3-2009)

- An IPSAC meeting was held on June 30, 2009 when an update was provided on: the Vermont-New York New Interconnection; North Country Studies including the integration of wind resources; NYISO/PJM Focused Reliability Study that will confirm generator deliverability modeling used in resource adequacy studies; Other Interregional Planning Activities such as the planned formation of the Eastern Interconnection Planning Collaborative (EIPC); Coordination of Studies and Databases Overview of ISO Economic Planning Processes for ISO-NE; NYISO, and PJM; and Background on joint modeling and plans for joint Interregional Economic Planning Efforts. (Q3-2009)
- An IPSAC WebEx meeting was held on November 6, 2009. The WebEx provided a status update regarding analysis of the Vermont-New York New Interconnection, NYISO/PJM Reliability and Market Efficiency Analysis and the development of a common economic database for the combined region. Process improvements for coordinating interconnection studies and transmission planning studies are under development. An in-person IPSAC meeting is being planned for mid-December in New England. (Q4-2009)
- An IPSAC meeting was held on December 18<sup>th</sup> at which the following updates were provided: (i) the results of additional analysis on the Vermont-New York Interconnection; (ii) a summary of existing and pending environmental regulations and a discussion of the potential impacts on the Northeast region; (iii) presentation on the current outlook for natural gas supply, which included estimates of significant increases in the resources available from shale gas sources in the Northeast and mid-Atlantic region, the addition of LNG terminals, and improvements in pipelines; (iv) a summary of the final results of the PJM-New York focused reliability and economic efficiency studies; and (v) a discussion of the data sources and model to be used in both the upcoming NY-NE and three ISO/RTO focused production cost analyses. Many stakeholders expressed the desire to obtain access to the detailed assumptions and data bases to be used in future studies. Some of the data bases are considered proprietary by program vendors and the ISO/RTOs are examining ways of making this information more readily available. Other stakeholders felt that the improved accuracy available from confidential ISO/RTO databases should be used subject to sharing as many assumptions as possible consistent with information policy constraints. The next IPSAC meeting is scheduled for February 2, 2010. The purpose of the call will be to discuss the status of NCSP09, a survey of transmission cost allocation methods (see I13), and next steps. (Q4-2009)

### **P35 Eastern Interconnection Planning Collaborative (EIPC)**

On September 1, 2009, 23 planning authorities representing about 95% of the peak load in the Eastern Interconnection, entered into an agreement to form the Eastern Interconnection Planning Collaborative Analysis Team. The goal of this initiative, the first of its kind in the Eastern Interconnection, is to provide a grass roots approach to interconnection-wide transmission analysis by the roll-up of the existing regional plans to identify potential opportunities for efficiencies between regions.

On September 14, 2009, members of the EIPC submitted a proposal, in response to a DOE Funding Opportunity Announcement (FOA), for performing interconnection-wide transmission analyses. The project

proposes to facilitate the establishment of a multi-constituency stakeholder steering committee to provide strategic guidance to the technical studies. It is anticipated that this initiative will provide benefit to states, policy makers and other stakeholders by providing a coordinated analysis of scenarios of interest and developing potential transmission expansion options and cost estimates to inform their decisions.

- The EIPC held two Webinars, on October 13th and 16th, to initiate dialogue with stakeholders, to receive input and to answer questions regarding this initiative. There were over 400 participants in these webinars. (Q4-2009)
- The EIPC Technical Committee has been formed as is in the process of developing the scope and processes for beginning the process of combining and reviewing the regional plans. The EIPC is also developing plans to continue its stakeholder outreach activities. (Q4-2009)
- On December 18, 2009, the DOE announced award selections totaling \$60 million dollars in funding to develop open and transparent stakeholder processes and to conduct transmission planning analyses on an interconnection-wide basis. The awardees for the Eastern Interconnection were the EIPC proposal for developing the stakeholder process and performing the technical analysis and the EISPC proposal to establish a consensus-building process among the Eastern states to identify resource and policy options as input to the technical analysis. It is anticipated that discussions will begin in early 2010 to finalize an agreement with the DOE. (4Q-2009)

### **I13 INTERREGIONAL COST ALLOCATION**

The Northeastern ISO/RTO Coordination of Planning Protocol currently provides that cost allocation will be addressed consistent with the provisions of each ISO/RTO's Tariff. The discussions between NYISO and PJM and between NYISO and ISO-NE referred to in item P26 above also included potential consideration of a cross-border cost allocation mechanism for prospective application.

- At the December 11, 2008 IPSAC meeting there was discussion of interregional cost allocation. The ISO/RTOs current plans call for an open stakeholder process to address interregional cost allocation once projects have been identified and the individual ISO/RTO cost allocation procedures have been substantially finalized by the Commission. Stakeholders expressed different views regarding the schedule and timing for addressing such cost allocation issues. The JIPC is holding to this plan and a summary of existing regional cost allocation methods is included in the NCSP.
- The existing economic planning processes and cost allocation methodologies in the three regions were discussed in detail at the June 30, 2009 IPSAC meeting. If justifications for individual projects are identified, there are several means available in the existing ISO/RTO tariffs to pay for the projects. (Q3-2009)
- At the December 18, 2009 IPSAC meeting, the ISOs indicated their intent to summarize existing cost allocation methodologies and to make the summary available to stakeholders for discussion at the next IPSAC meeting scheduled for February 2, 2010. Stakeholders expressed differing views regarding the timeliness of starting cross-border cost allocation discussions at this time. (Q4-2009)