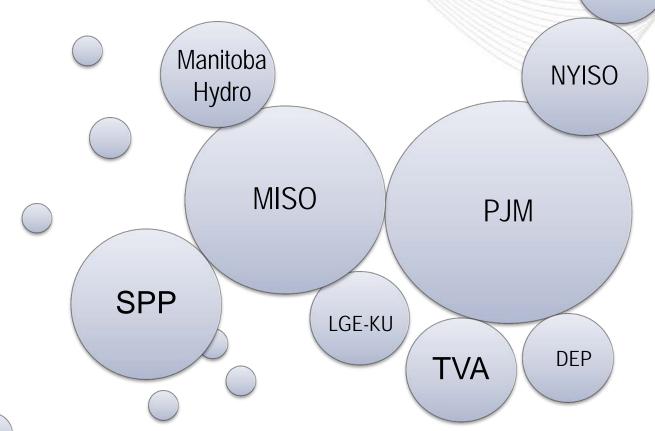


Interregional Coordination Update

Tim Horger
Director, Energy Market Operations
Members Committee
May 16, 2018



ISO NE



PJM has multiple interregional agreements and groups focused on the following key areas

- Markets
- Planning
- Reliability/Operations

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MISO

PJM-MISO Joint Operating Agreement

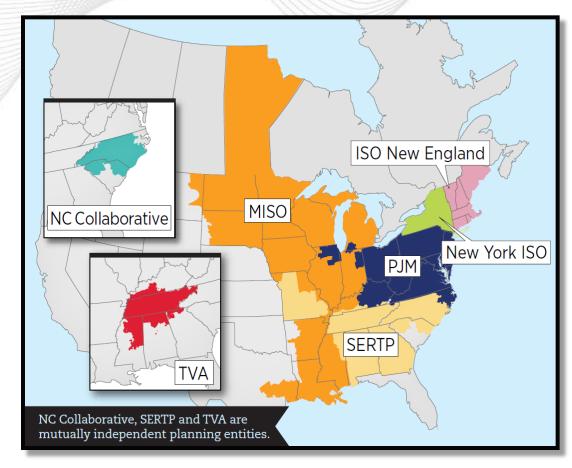
NYISO & ISO NE

- PJM-NYISO Joint Operating Agreement
- Planning Northeastern ISO/RTO Planning Coordination Protocol

Non-Market Entities

- Markets Congestion Management Agreement (MISO, SPP, TVA, Manitoba Hydro, LGE-KU)
- Joint Reliability Coordination Agreement (TVA)
- PJM-Duke Energy Progress Joint Operating Agreement
- PJM-VACAR South Reliability Coordination Agreement

PJM Core Interregional Agreements



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Firm Flow Entitlement Freeze Date: Congestion Management Process Working Group (CMPWG) is enhancing the calculation of Firm Flow Entitlements (FFE) on each other's system.

- FFE represents the historical entitled level of flow on a coordinated transmission facility (flowgate).
- Enhancements include:
 - Updating FFEs to account for new and retired resources (June 1, 2018)
 - Alignment with planning construct (June 1, 2019, pending agreement)

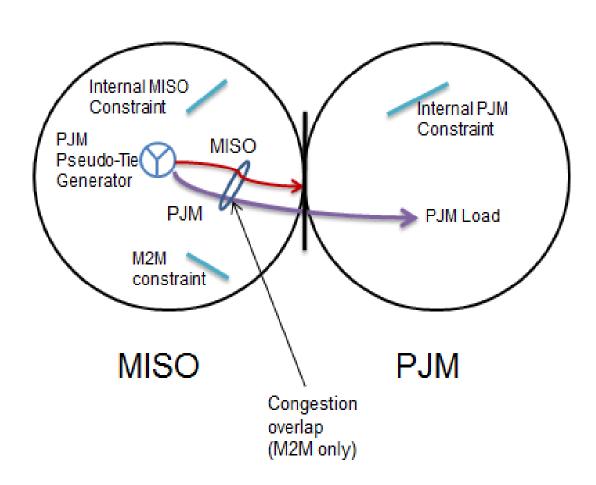




External Capacity Resource "Double Counting" of Congestion

FERC complaints from pseudo-tie owners have been made about double counting of congestion for the delivery of energy from the pseudo-tie unit to the PJM-MISO interface.

- PJM and MISO developed a collaborative solution that includes Day-Ahead Market adjustments to remove congestion impacts, RTO-RTO M2M settlement adjustments, deviations credits/charges, and hedging product options.
- Implementation pending FERC approvals



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External Capacity

PJM and NYISO continue discussions on ways to accommodate potential PJM capacity resources located in NYISO.

Value of Tie Facilities

PJM and NYISO are initiating a process to evaluate the regional benefit of PJM-NYISO tie facilities for resilience, congestion and other factors.

PJM-NYISO Joint Operating Agreement (JOA)

PJM and NYISO are coordinating a timeline for JOA-related updates for the remainder of 2018. This includes a general review of the JOA along will updates to the M2M processes (primary focus on FFE and PAR coordination), emergency energy transfers, data exchange and Transmission Planning coordination.





PJM-TVA JRCA Updates: PJM and TVA are performing a review of the Joint Reliability Coordination Agreement (JRCA), which includes a general review of the JRCA, updates to data exchange requirements in accordance with NERC Standards, inclusion of a tie line list (appendix), and updates to the Planning section. PJM and TVA are also including LGE-KU in the JRCA. LGE-KU falls under the TVA Reliability Coordinator footprint and is a Congestion Management Process (CMP) member.



PJM-DEP JOA Updates: PJM and DEP have submitted JOA updates to the FERC for approval. The primary focus of these changes is five-minute settlements and tie line updates.

