

Addressing Challenges Through Interconnection Wide Transmission Analysis

High Plains Regional Transmission Summit

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Challenge and Opportunity

- Challenge
 - New energy policy discussions – big picture questions ... require big picture answers
 - All three U.S. interconnections face these same questions
 - Specifically with respect to the Eastern Interconnection, transmission expansion plans are developed today and coordinated on a regional and super-regional basis ... but not fully coordinated on an interconnection basis
- Opportunity
 - New processes are needed that build upon existing regional planning ... so projects that have already been approved will continue to completion

What is the EIPC?

- Eastern Interconnection Planning Collaborative
 - an open approach to addressing transmission analyses with an interconnection scale
- Began through discussions between regional Planning Authorities
- Backdrop
 - Broad energy policy discussions on future renewable resources and on transmission infrastructure
 - Historical development and coordination of transmission plans on a regional and super-regional basis

Examples of Prior Work

- Coordination before there were “Regions”
- Inter-Regional studies
 - As far back as the 1970’s – MET, MMS, MEN-VEM ...
- WECC - Transmission Expansion Planning Policy Committee (TEPPC)
- Joint Coordinated System Plan (JCSP)

So What Really is the EIPC?

The ***Collaborative*** is a combination of:

- Regional Planning Authorities participating in a joint agreement to form an Analysis Team to perform technical studies
- Federal, State and Provincial representatives
- Self-formed stakeholder groups (e.g. Regional TO groups, IPPs, etc.)
- Individual stakeholder participants

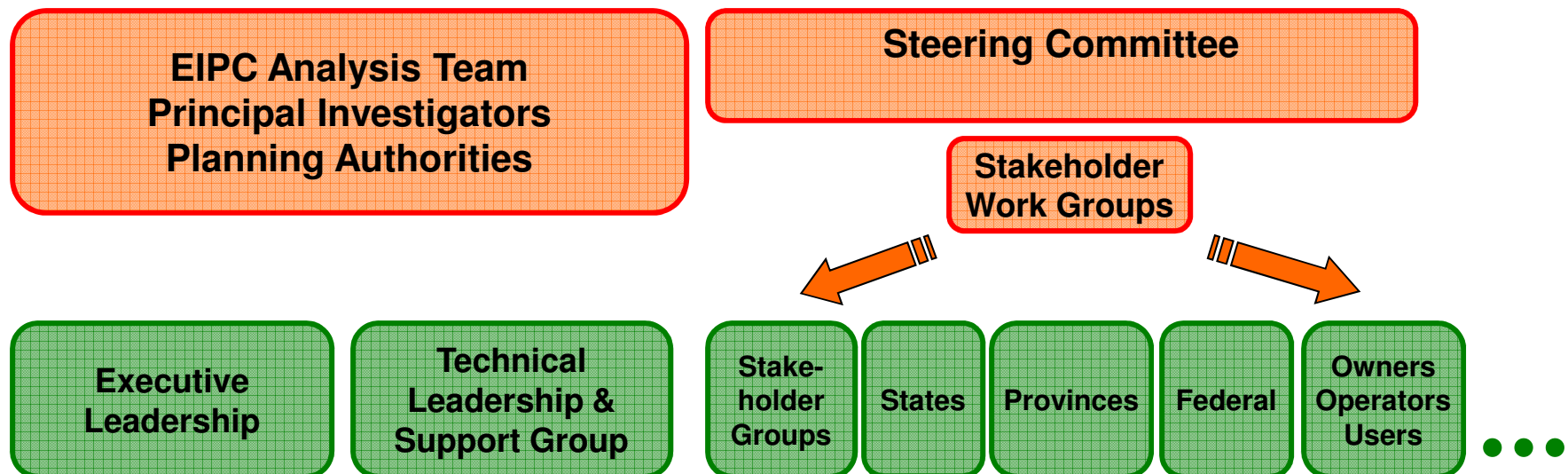
Who are the PAs?

- Alcoa Power Generating
- American Transmission Company
- Duke Energy Carolinas
- Entergy *
- E.ON (Louisville/Kentucky Util.)
- Florida Power & Light
- Georgia Transmission Corporation
- IESO (Ontario, Canada)
- International Transmission Co.
- ISO-New England *
- JEA (Jacksonville, Florida)
- MAPPCOR *
- Midwest ISO *
- Municipal Electric Authority of Georgia
- New York ISO *
- PJM Interconnection *
- PowerSouth Energy Coop
- Progress Energy – Carolinas
- Progress Energy – Florida
- South Carolina Electric & Gas
- Santee Cooper
- Southern Company *
- Southwest Power Pool
- Tennessee Valley Authority *

* Also a Principal Investigator on the DOE proposal

EIPC Structure

Eastern Interconnection Planning Collaborative (EIPC) *(Open Collaborative Process)*



EIPC Status

- EIPC Analysis Team structure in place
- 24 Planning Authorities signed – approximately 95% of customers covered
- DOE funding proposal submitted
- Stakeholder dialog - webinar on October 13 with a repeat on October 16 – over 400 participants
- Continued stakeholder discussion through beginning of DOE study cycle
- Website launched – eipconline.com

What are the Objectives of the EIPC?

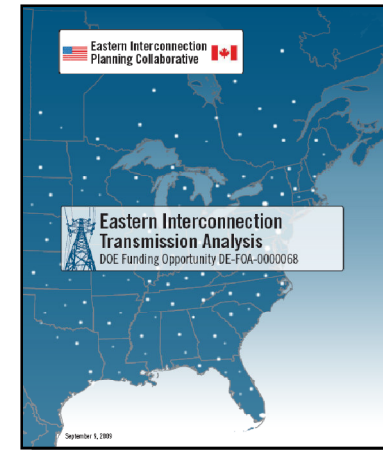
1. Roll-up and analysis of approved regional plans
2. Development of possible interregional expansion scenarios to be studied
3. Development of interregional transmission expansion options

The EIPC is committed to an open and transparent process that uses a roll-up of regional plans as a starting point and is consistent with FERC Order 890 principles.

EIPC DOE Bid Scope

Bid covers entirety of “Topic A”

- Establishment & Funding of a multi-constituency Stakeholder Process – open participation, meeting space, professional facilitators, etc.
- Funding to support study work – Consultant and Planning Authority costs for carrying out bid activities
- Potential funding of complementary university work consistent with DOE Funding Announcement
- Funding available for NGO participation on Steering Committee and Stakeholder Working Group
- Stakeholder meetings and Webinars open to all parties



EIPC DOE Bid Structure

- Stakeholder Steering Committee (SSC)
 - Make-up to be determined by stakeholders with facilitation by The Keystone Center
 - At least 1/3 of Steering Committee to be made up of state representatives (as specified in the FOA)
- EIPC Analysis Team
 - Made up of NERC-certified Planning Authorities
 - Technical consultants retained by Planning Authorities
- Project Manager

EIPC DOE Bid Resources

Resources

- Principal Investigators: ISO-NE, NYISO, PJM, MISO, TVA, Southern, Entergy, MAPPCOR
- Other Planning Authorities: Contribute technical personnel and data
- Charles River Associates (Production Cost Modeling)
- Oak Ridge National Laboratory (Reliability Review)
- The Keystone Center (Stakeholder facilitation)

Challenges / Opportunities

- Need for consensus on scenarios given resource limitations and complexity of scenarios
- Development of an effective stakeholder process
- Collaboration among states, regions and all stakeholders

