



Eastern Interconnection Planning Collaborative

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# **Eastern Interconnection Transmission Studies Project**

## **Gas-Electric System Interface Study**

SSC Webinar

June 20, 2013

June 26, 2013

# Acknowledgement and Disclaimer

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## The EIPC appreciates and acknowledges the support of DOE for the Eastern Interconnections Studies Project

### Acknowledgement:

- This material is based upon work supported by the Department of Energy, National Energy Technology Laboratory, under Award Number DE-OE0000343.

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# Welcome Back, Introduction, and Overview of Agenda

# Introductions

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- Roy Thilly – SSC Chairman
- EIPC Representatives
  - Mark Babula, ISONE
  - John Buechler, NYISO
  - Dan Rochester, IESO
  - Gary Helm, PJM
  - Eric Thoms, MISO
  - Ian Grant, TVA
  - Dave Whiteley, Project Manager
- DOE Contacts – David Meyer, Alicia Dalton-Tingler

# Agenda

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Thursday, June 20, 2013 and Wednesday, June 26, 2013		
10 minutes	Welcome Back, Introduction, Overview of Agenda	David Whiteley, Project Manager Roy Thilly, SSC Chair
15 minutes	How did we get here? Introduction to the Gas-Electric System Interface Study	David Whiteley
45 minutes	Project Statement of Work (SOW) Question & Answer <b>Initial SSC Verbal Feedback</b>	Mark Babula, ISO New England
15 minutes	Stakeholder Process Question & Answer <b>Initial SSC Verbal Feedback</b>	Ian Grant, TVA
15 minutes	Schedule and Next Steps	David Whiteley
10 minutes	Concluding Comments and Wrap-up	Roy Thilly

# How did we get here?

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## Introduction to the Gas-Electric System Interface Study

# DOE Interconnection Studies Grant

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- Study of transmission needs across stakeholder-specified futures
  - Worked with Stakeholder Steering Committee (SSC) and EISPC to define futures
- Two Phase Process:
  - Phase I
    - Developed base case starting point for expansion analyses
    - Macroeconomic study of resource needs under different policy and economic growth futures (80 runs)
    - Stakeholder choice of three scenarios for further analysis
    - Interim report issued 4Q 2011
  - Phase II
    - Planning Authorities developed detailed transmission buildouts for three scenarios
    - Production cost analysis of three scenarios and six sensitivities
    - Costs estimated for generation and transmission development in three scenarios
    - Draft report sent to DOE and posted 4Q 2012
- DOE Guidance on Gas-Electric System Interface Study

# DOE Guidance

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- Recognizes the progress in furthering interconnection-wide planning study
- Notes changes in the natural gas market since the beginning of the study and in particular the new source locations and increased reliance on natural gas for power generation
- Acknowledges that the Phase II draft report states, "it was assumed that new natural gas plants would be placed at the site of deactivated coal plants, reducing the need for transmission; the locations and capacities of natural gas pipelines were not taken into account."



# DOE Guidance (continued)

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- Recognizes that with the current study information it is unknown if sufficient natural gas infrastructure exists to support the proposed increase in natural gas power production
- Requests that EIPC begin to evaluate the interaction between the natural gas and electricity infrastructures from a planning perspective
- Directs a review of the additional results and development of a revised Phase II report
- Requests that EIPC revisit the role and membership of the SSC to add gas expertise given the gap to be filled

# Gas-Electric System Interface Study

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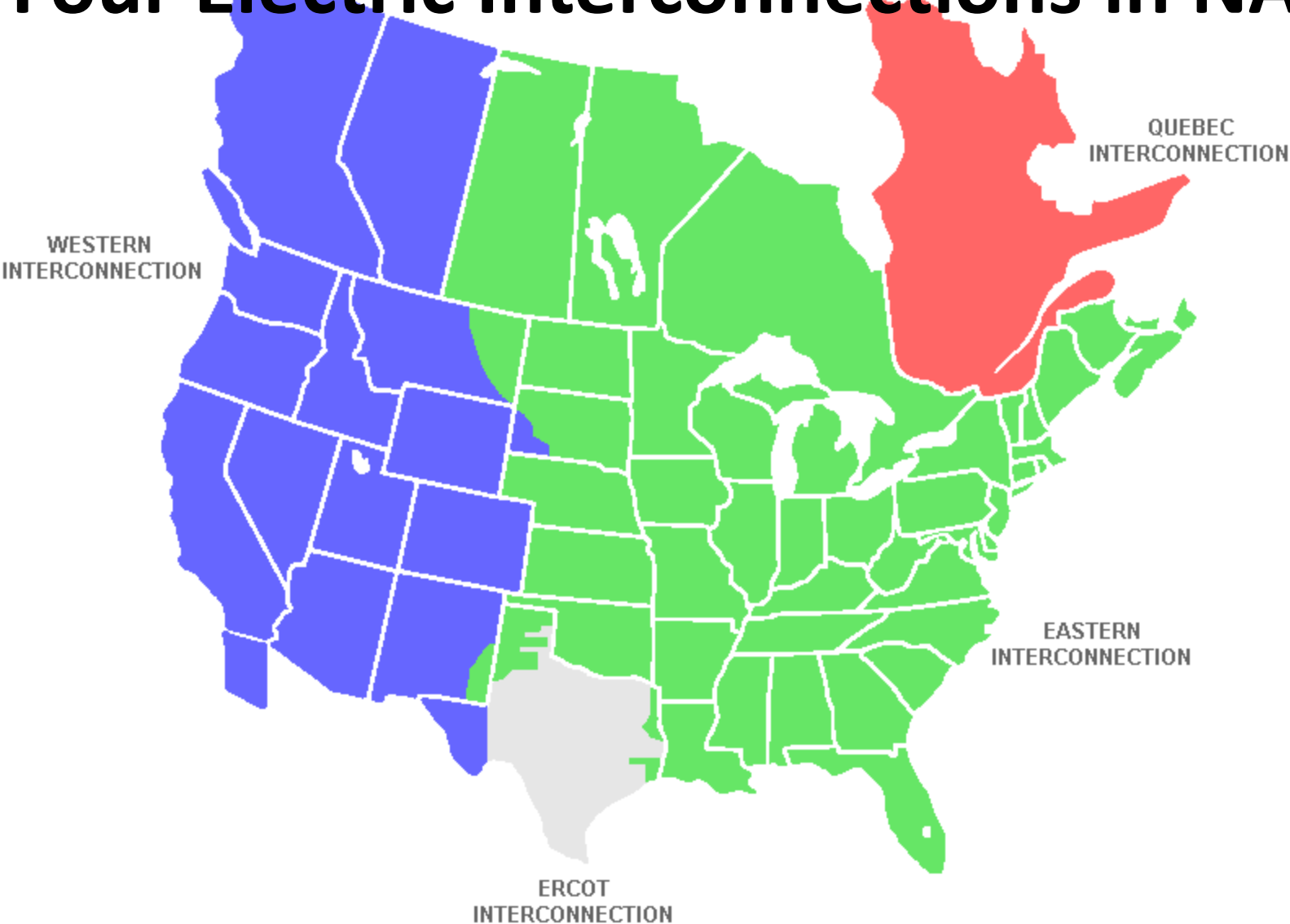
- Participating Planning Authorities (PPAs) are: ISO-NE, NYISO, PJM, IESO (Ontario, Canada), Midcontinent ISO (MISO, including the MISO South/Entergy area), and TVA
- Four Targets (areas to be analyzed)
- Most analytical work to be completed by a consultant chosen through an RFP process
- Stakeholder process:
  - Request SSC to reconvene
  - Recommendation to add gas expertise (SSC is currently focused on electric transmission)
  - Include regional stakeholder groups from each PPA in the process

# Study Region

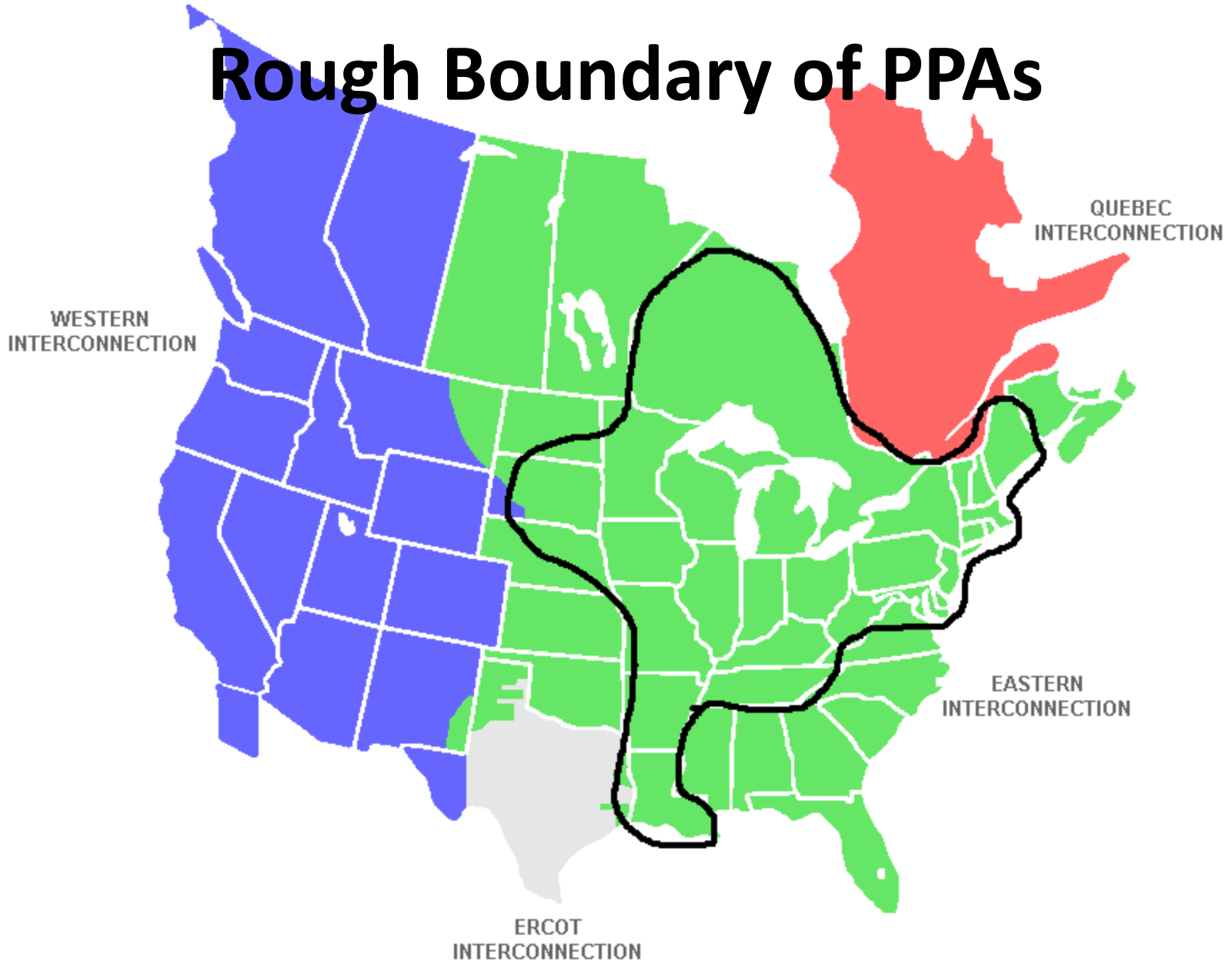
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- The Study Region is the collective area of all six PPAs electric transmission system and the natural gas pipelines that supply these areas, even if an entire pipeline does not fall within the geographic area served by the PPAs
- The next few slides illustrate, in a general manner, the Study Region

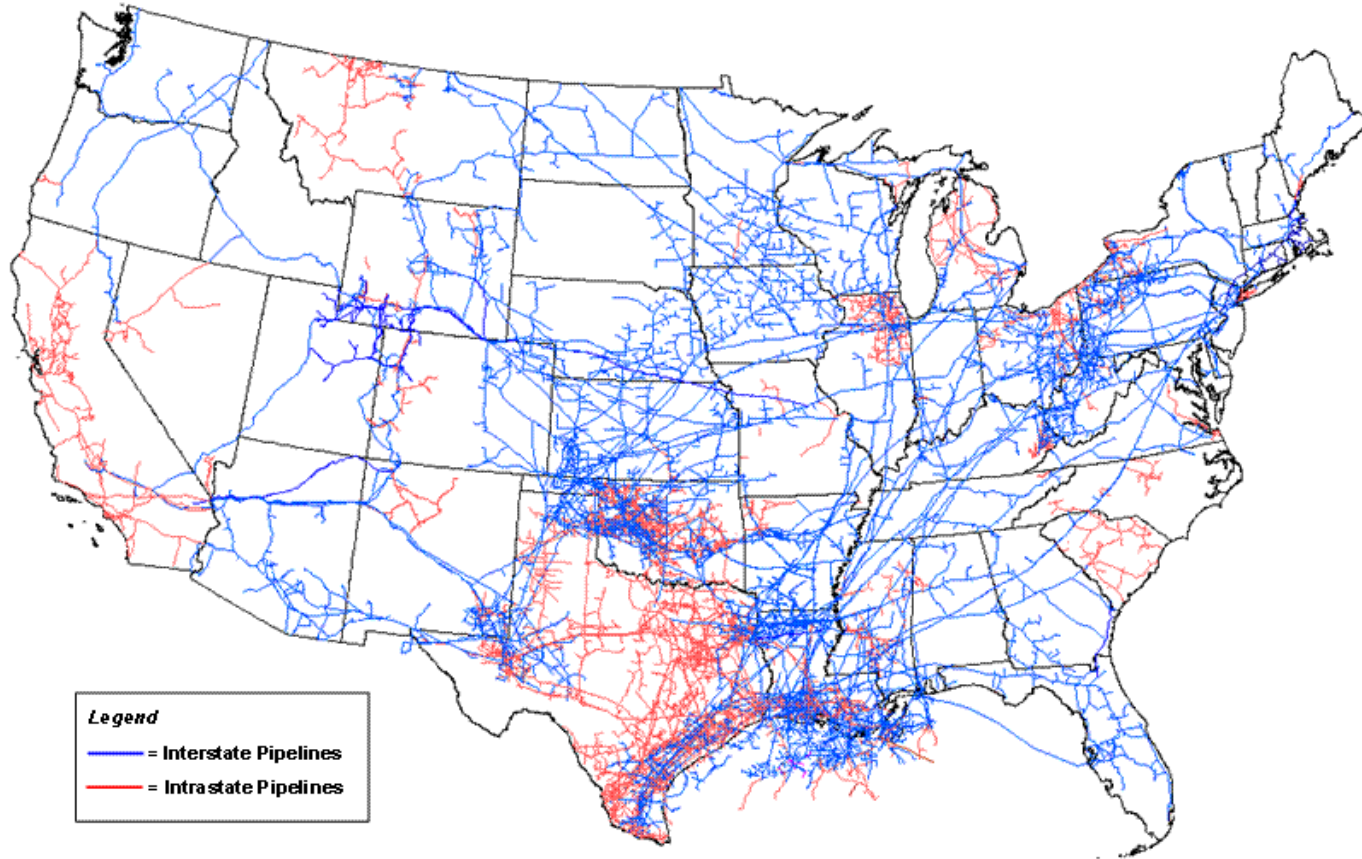
# Four Electric Interconnections in NA



# Rough Boundary of PPA's

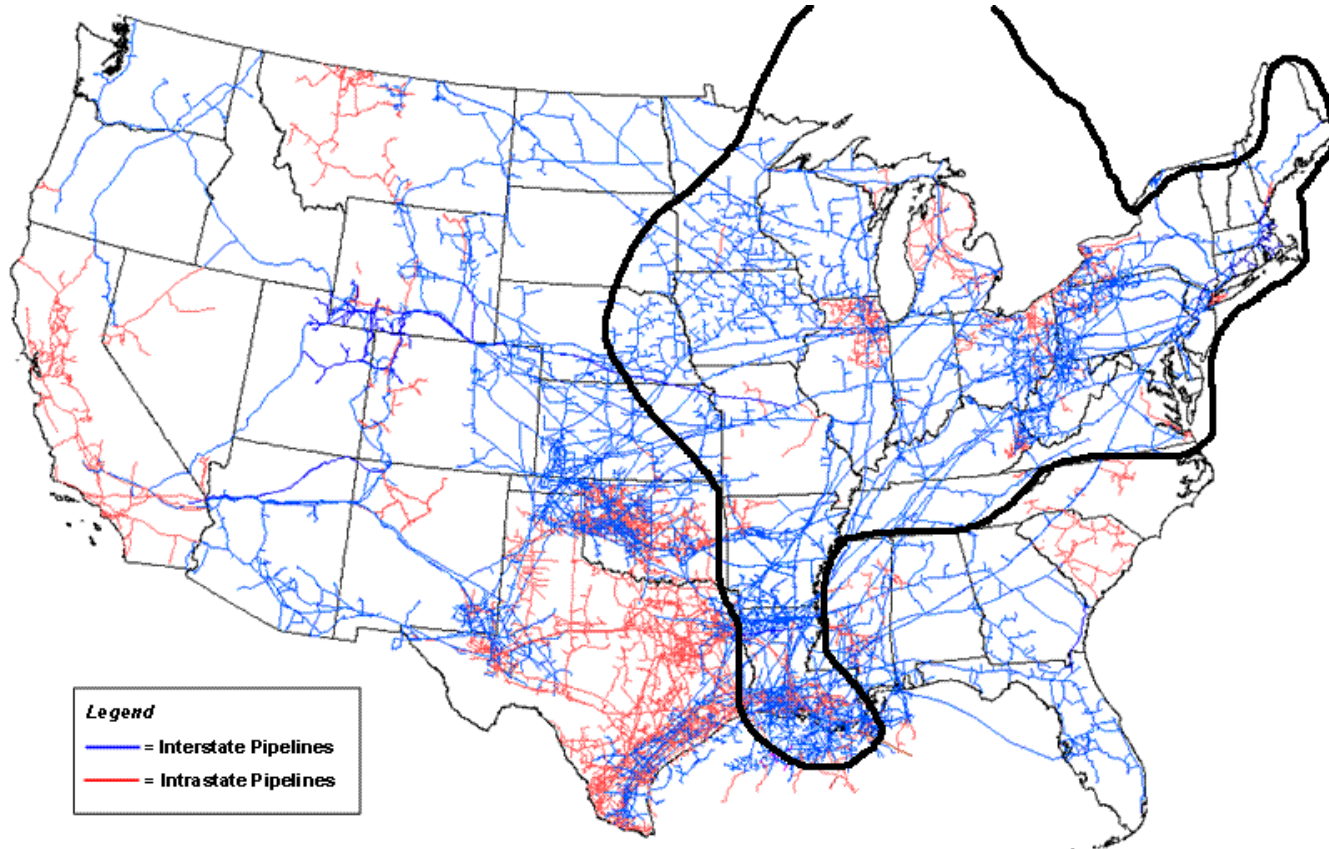


# U.S. Natural Gas Pipeline System



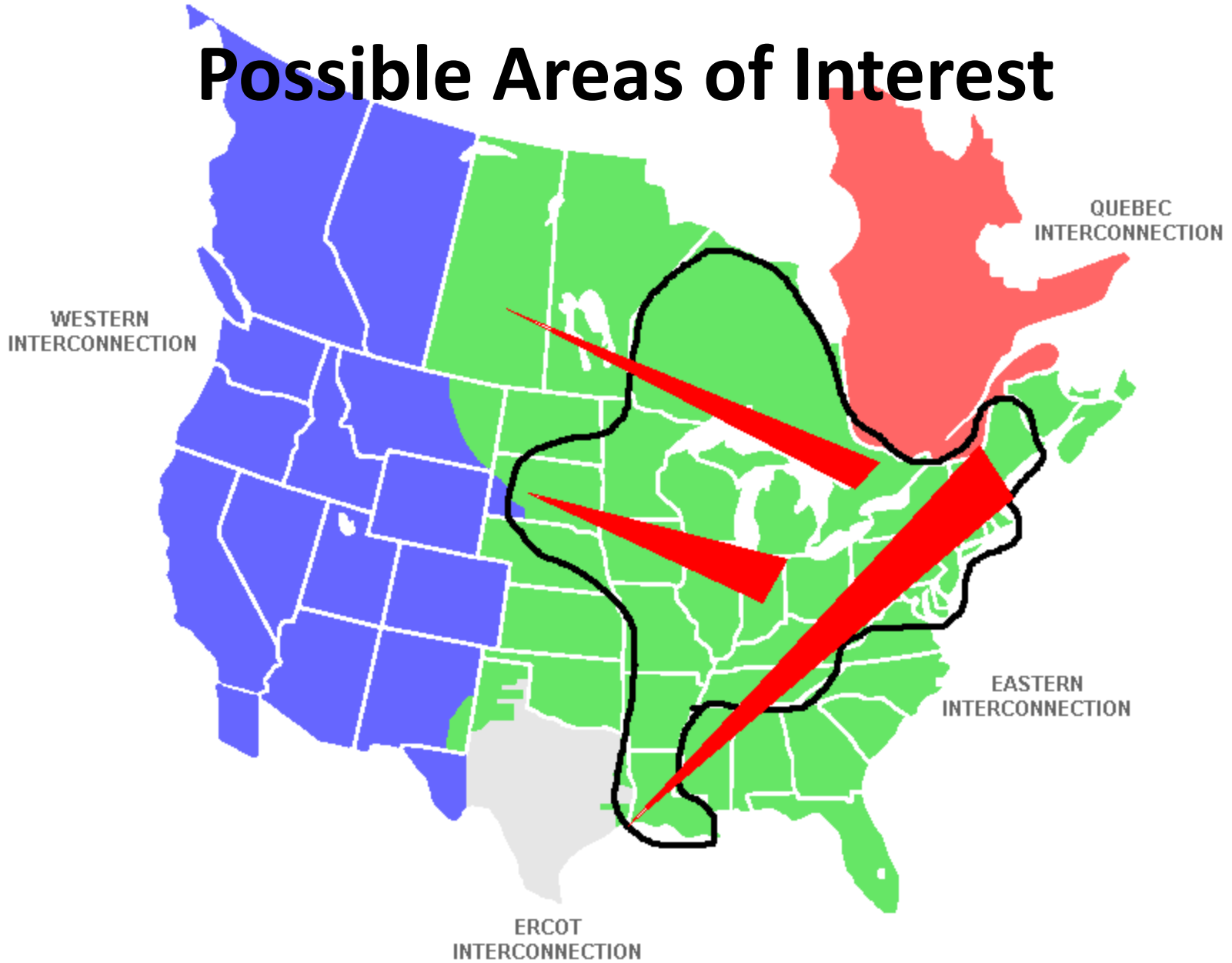
Source: Energy Information Administration, Office of Oil & Gas, Natural Gas Division, Gas Transportation Information System

# Rough Boundary of PPAs



Source: Energy Information Administration, Office of Oil & Gas, Natural Gas Division, Gas Transportation Information System

# Possible Areas of Interest





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# Project Statement of Work (SOW)

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# Stakeholder Process

# Stakeholder Process Background

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- A fundamental requirement is that the analyses and planning should be performed in a transparent and collaborative manner.
- The SSC was constituted as a multi-constituency steering group, to provide strategic guidance and input on the study.
- The SSC Charter defines its structure and how its members are elected.

# Stakeholder Process Enhancement

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- The EIPC recommends that the SSC, using its existing processes described in its Charter, add gas representatives to its membership since this will enable the SSC to more fully contribute to and benefit from the study
- Stakeholder participation will be further enhanced by utilizing PPA Stakeholder Groups previously created for other purposes such as compliance with FERC Rule 890 or 1000 in each PPA Area
- PPA Stakeholder Groups typically meet at fixed times through the year, linked to their PPA planning cycle
- The SSC will meet at different times determined by the SSC

# Stakeholder Participation and Input

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- Subtask 1.A – Adjust structure of SSC as needed
- Subtask 1.E – Project task and scope development
- Subtask 11.A – Review results and develop first draft Phase II report
- Subtask 11.B – Review results with SSC and solicit input on the draft report
- Subtask 11.C – Review draft report during workshop with stakeholders
- Task 12 – Phase II Report

# Stakeholder Communication

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- Contributions by the SSC will be achieved through three face-to-face meetings, one at the beginning, one mid-course, and one at the end, combined with webinars
- PPA Stakeholder Groups will be invited to all SSC meetings
- SSC and PPA Stakeholder Group meeting schedules and announcements will be posted on the EIPC website
- The EIPC website and its mailing lists will be used to keep stakeholders apprised of progress on the study
- Comments received from the SSC and PPA Stakeholder Groups will be posted on the EIPC website
- Documents will be posted at [http://www.eipconline.com/Gas-Electric\\_Documents.html](http://www.eipconline.com/Gas-Electric_Documents.html)

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# Schedule and Next Steps

# Preliminary Schedule

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- Initial stakeholder outreach and posting of documents on website – June 7, 2013
- SSC Webinar and PPA Stakeholder Group Meetings planned for June
  - Request for prompt review of Statement of Work (SOW) to enable issuing RFP for consultant in July
- Stakeholder comment and input on SOW – due 7/12/13 – send to [EIPC@TVA.gov](mailto:EIPC@TVA.gov)
- RFP to be issued and posted – late July



# Preliminary Schedule (continued)

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- SSC Meeting – July or August
  - Possible agenda topics:
    - Review stakeholder process and schedule
    - Review membership (gas industry reps)
    - Comments from gas industry reps
    - Discuss sensitivities for analysis in Target 2
    - Update on EISPC activities
- PPA Stakeholder Group Meetings – mid-July through August
  - Review stakeholder process and schedule
  - Discuss sensitivities for analysis in Target 2

# Preliminary Schedule (continued)

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- Stakeholder input on sensitivities – due 9/30/13
- SSC Webinar – October
  - Discuss sensitivities recommended by stakeholders
  - Reconcile differences (if needed)
  - Develop stakeholder recommendation
- Discussion of study results at SSC and PPA Stakeholder Group webinars and meetings as the results become available – fall 2013 through end of 2014
- Revise Phase II draft report – early 2015

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# Concluding Comments and Wrap-up

# Questions and Discussion

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