



Eastern Interconnection Planning Collaborative

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# **Introduction to EIPC Studies 2013-2014**

MAPP TPC

June 6, 2013

Bloomington, MN

# Outline

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- EIPC Background and History
- EIPC Scope of Activities (non-grant)
- EIPC Work Plan 2013-2014 (non-grant)
- Stakeholder Process Overview
- Stakeholder Role and Expectations
- Questions for Discussion
- Schedule for 2013
- 2018 and 2023 Roll-up Cases
- Discussion of Potential Scenarios to be Studied

# About the EIPC

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- Eastern Interconnection Planning Collaborative (EIPC)
- 25 Planning Authority (Planning Coordinator) members including ISOs/RTOs, non-ISO regions, municipals, cooperatives, ...
- Members are from the U.S. and Canada
- Approximately 95% of the Eastern Interconnection customers covered
- Formed in the Spring of 2009

# Planning Authority Members of EIPC

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- Alcoa Power Generating
- American Transmission Co.
- Duke Energy Carolinas
- Electric Energy Inc.
- Entergy \*
- Florida Power & Light
- Georgia Transmission Corp.
- IESO \*
- International Transmission Co.
- ISO-New England \*
- JEA
- LG&E/KU
- 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 \*

\*Primary participants on portions of the DOE funded project.

# EIPC Activities

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1. DOE Interconnection Studies Grant
  - ARRA funded
  - EIPC selected in fall of 2009
  - Study continues into 2015
2. EIPC Model Development and Analysis (non-grant)
  - Funded by EIPC members

# DOE Interconnection Studies Grant

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- Study of stakeholder-specified 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 then determine three scenarios for further analysis
  - Phase II
    - Detailed transmission buildouts for three scenarios, production cost analysis, and 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

# Gas-Electric System Interface Study

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- Phase I assumption that natural gas delivery can keep pace with electric generation development with no impact on gas price
- Recent interest in Gas-Electric interface by DOE, FERC, states, etc.
- EIPC working with DOE to study the issue:
  - Base line of existing electric and gas system analysis
  - Future gas adequacy assessment
  - Detailed modeling under gas contingency conditions, and impact on electric system operations
  - Dual fuel evaluation

# EIPC Activities

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1. DOE Interconnection Studies Grant
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Remainder of presentation focuses on activity #2



# EIPC Scope of Activities (non-grant)

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- Initial EIPC Scope of Activities adopted 12/22/09
- Non-grant work in 2013-2014:
  - Roll-up analysis of the PA's plans to find possible changes that will improve their efficiency and effectiveness
  - Result of this analysis available for consideration in regional and inter-regional planning processes
  - Perform a defined number of scenarios/sensitivities against the rolled-up model

# EIPC Work Plan 2013-2014

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- 2013 – Model roll-up and evaluation by Planning Authorities – during Q1, Q2, and Q3
- 2013 – Develop and put in place a new stakeholder process
  - Develop process
  - Poll states and other stakeholders for input and comment
  - Finalize and implement new stakeholder process
    - Hold initial open stakeholder webinars

# EIPC Work Plan 2013-2014 (cont'd)

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- Late 2013 through 2014
  - Provide results of updated roll-up analysis to stakeholders
  - With stakeholder input, develop resource expansion scenarios to be studied in 2014 on 2013 roll-up models
  - Perform inter-regional transmission analysis to support selected scenarios
  - Provide cost estimate for incremental transmission improvements and build-out required to support selected scenarios
  - Discuss interim results with Stakeholders and receive feedback
  - Revise analysis as appropriate
  - Hold Stakeholder meeting(s) to present final results of analysis
  - Publish results
  - In 2014, develop a new work plan for 2015 and beyond

# EIPC Work Plan 2013-2014 (cont'd)

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- Supporting Activities
  - CEII: Continue to make EIPC models available to those who have completed the EIPC CEII process (based on regional clearance)
  - Website: [www.eipconline.com](http://www.eipconline.com)
    - Continue to host the EIPC website
    - Review current EIPC website and recommend modifications as appropriate
    - Post material from both grant and non-grant EIPC activities

# Stakeholder Process Overview

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- Note difference between the DOE-funded Gas-Electric System Interface Study and EIPC Roll-up (not funded by DOE)
- Existing stakeholder groups previously created for other purposes such as compliance with FERC Order 890 will be used to facilitate stakeholder input
- Ensure a regional focus:
  - Present roll-up models and results
  - Receive stakeholder feedback, input, comments and suggestions on specific scenarios to be studied
  - Present the results of scenario studies
  - Seek stakeholder feedback on reports that are created

# Stakeholder Process Overview (cont'd)

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- EIPC plans to hold two to three interconnection-wide stakeholder webinars each year
- These webinars provide transparency and coordination between the regions and to seek additional stakeholder input
- Webinars will be open to all stakeholders including federal and state (EISPC) representatives
- If necessary, interconnection-wide in-person stakeholder meetings could be held in place of or in addition to the webinars

# Planning Authority Responsibility

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- Ensure appropriate communication with regional stakeholder processes
- Coordinate with EISPC to ensure they have the opportunity to provide input and feedback
- Develop potential scenarios to be presented to stakeholders for input
- Solicit, organize, and review input from stakeholders

# Planning Authority Responsibility (cont'd)

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- Work with stakeholders through webinars (and meetings, if necessary) to provide transparency and resolve disagreements if possible
- Determine which scenarios will be studied based on input from stakeholders and guidance from the EIPC Executive Committee
- Post chosen scenarios and explanations for why those scenarios were chosen
- Report back to each region on interim and final study results



# Stakeholder Role and Expectation

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- Participate in regional processes and meetings
- Provide input on the roll-up models and results
- Provide input on potential scenarios developed by the PAs
- Suggest other scenarios of interest that should be considered
- Work with other stakeholders in determining which scenarios would be of most value
- Participate in interconnection-wide webinars (and meetings, if necessary) to provide input on the interim results, draft conclusions, and recommendations

# Questions for Discussion

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- When and how would stakeholders like to hear from the EIPC on the status of EIPC work?
- Do stakeholders want a separate set of EI-wide calls/webexes?
- What is the best use of EI-wide web meetings?
- How often would stakeholders like to be updated on EIPC work?
- Would stakeholders want the capability to provide input via an EIPC “mail box” in addition to input via their regional process?
- What would you like to get from EIPC studies?
- How much time do folks need to be able to provide comments once material is shared with them in – 2 days, 2 weeks, 1 month?

# Schedule for 2013

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- Regional Meetings: June through August
  - Background on non-grant work
  - Stakeholder process
  - 2018 and 2023 roll-up base cases
  - General discussion on potential scenarios to be studied
- Stakeholder Comments and Input on Stakeholder Process, Roll-up, and Scenarios Due – 9/3/13
  - Comments on stakeholder process
  - Roll-up work
  - Input on scenarios to be studied

# Schedule for 2013 (cont'd)

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- EIPC Consideration of Comments Received on Stakeholder Process: August and September
  - Finalize any recommended changes to stakeholder process – 9/19/13
- Regional Meetings: Mid-September – October
  - Results of roll-up case contingency and transfer testing
  - List of potential scenarios to be studied in 2014
  - Stakeholder feedback on which potential scenarios to select
- Eastern Interconnection-Wide Webinar – November
- EIPC Develops 2014 Study Schedule – October to December
  - Consider PA manpower requirements
  - Final selection of scenarios – 12/19/13
  - Post/notify stakeholders final scenarios to be studied in 2014

# Questions and Discussion

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