

Introduction to EIPC Studies 2013-2014

PJM Regional Stakeholder TEAC Meeting July 10, 2013

Outline

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- 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

- 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

- 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

- 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

- 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

- 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



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Remainder of presentation focuses on activity #2



EIPC Scope of Activities (non-grant)

- 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

- 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)

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)

- 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
 - 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

- 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 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)

- EIPC plans to hold two to three interconnectionwide 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

- 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)

- 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

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Stakeholder Role and Expectation

- 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

- When and how would stakeholders like to hear from the EIPC on the status of EIPC work?
- Do stakeholders want a separate set of El-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?

Eastern Interconnection Planning Collaborative

Schedule for 2013

- 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)

- 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



