An Overview of the Eastern Interconnection States Planning Council
Acknowledgement and Disclaimer

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Eastern Interconnection Planning

US Department of Energy
DOE FOA00000068

Topic A: Eastern Interconnection Planning Collaborative

Topic B: Eastern Interconnection States Planning Council
What Does EISPC Do?

- Convene State Energy Offices and State Utility Commissions
- Provide Policy Input to the EIPC
- Conduct Studies and White Papers
Convening Role for State Energy Offices and Utility Commissions

EISPC provides a forum for the 39 states, the District of Columbia, the City of New Orleans, and 6 Canadian provinces that compose the Eastern Interconnection to discuss and analyze immediate and long-term issues of mutual concern. The EISPC forum, because it requires consensus, serves as an “honest broker” for objective public policy analysis with an emphasis on collaboration and advancing the analytical tools available to states. There are two representatives per state including one commissioner and a designee of the Governor.
Participation in Topic A (EIPC) Activities

1/3 of the SCC membership are EISPC representatives
Studies and White Papers

The purpose of the studies and white papers are to inform states and stakeholders on the inputs of transmission planning to ensure productive policy within the states and provide a level of regulatory certainty to the EIPC.
Relevant Studies and White Papers

Changing Resource Mix

- State by State Demand Side Resources
- Current and Future Direction of the Coal Industry
- Current and Future Direction of the Nuclear Industry
- Electric and Natural Gas Interdependencies

Energy Zones

- Transmission Planning
- Energy Zones Mapping Tool
- State by State Public Policy Inventory

Load Growth Patterns / Existing Transmission

- Co-Optimization
- Load Forecasting Case Studies
## Energy Zones Mapping Tool

<table>
<thead>
<tr>
<th>Web-Based GIS Tool</th>
<th>Includes nine (9) clean energy resource categories</th>
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<tbody>
<tr>
<td>Used to locate areas with high suitability for clean power generation in the EI</td>
<td></td>
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<tr>
<td>Searchable Energy Policy and Regulations Database</td>
<td>Available at <a href="http://eispctools.anl.gov">http://eispctools.anl.gov</a></td>
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</tbody>
</table>
Model for Utility-scale Solar Photovoltaic

Input Modeling Layers:
- Energy Potential: Solar PV
- Slope
- Land Cover Area
- Population Density
- Distance to Transmission
- Protected Lands
- Habitat
RESOURCE LINKS

EISPC - www.eispc.org

NARUC’s EISPC Page - www.naruc.org/eispc

EIPC - www.eipconline.org

Appendix Slides

Lists All Studies and White Papers
Overview of Completed Reports

- **Market Structures and Transmission Planning Processes in the Eastern Interconnection**
  - Christensen Associates

- **Economics of Resource Adequacy**
  - Astrape Consulting,

- **Assessment of Demand-Side Resources within the Eastern Interconnection**
  - Navigant Consulting

- **Assessment of the Nuclear Power Industry**
  - Navigant
## Overview of Completed Reports (continued)

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors/Institutions</th>
<th>Dates and Links</th>
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Reports Underway

Electric and Natural Gas Infrastructure Requirements

• Study: ICF International; Whitepaper: Illinois Institute of Technology, September 2014

Electric and Natural Gas Infrastructure Requirements

• White Paper: Illinois Institute of Technology, October 2014

Probabilistic Risk Assessment for Transmission and other Resource Planning Study

• Electric Power Research Institute, November 2014

Incorporation of Risk Analysis into Planning Processes

• Electric Power Research Institute, November 2014
<table>
<thead>
<tr>
<th>Study Title</th>
<th>Institution/Date</th>
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<tbody>
<tr>
<td>Application of the Energy Zones Mapping Tool</td>
<td>Illinois Institute of Technology</td>
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<tr>
<td></td>
<td>October 2014</td>
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<tr>
<td>Clean Energy Zones Public Policy inventory and Database</td>
<td>Clean Energy States Alliance, January</td>
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<tr>
<td></td>
<td>2015</td>
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<tr>
<td>Data Mining of the EIPC Phase I and II Build Out Scenarios</td>
<td>Navigant Consulting</td>
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<td></td>
<td>December 2014</td>
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<tr>
<td>Co-Optimization Demonstration</td>
<td>Energy Exemplar</td>
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<tr>
<td></td>
<td>January 2015</td>
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<tr>
<td>Load Forecasting Study</td>
<td>University of North Carolina at Charlotte</td>
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