



# West Virginia 2009 Energy Summit

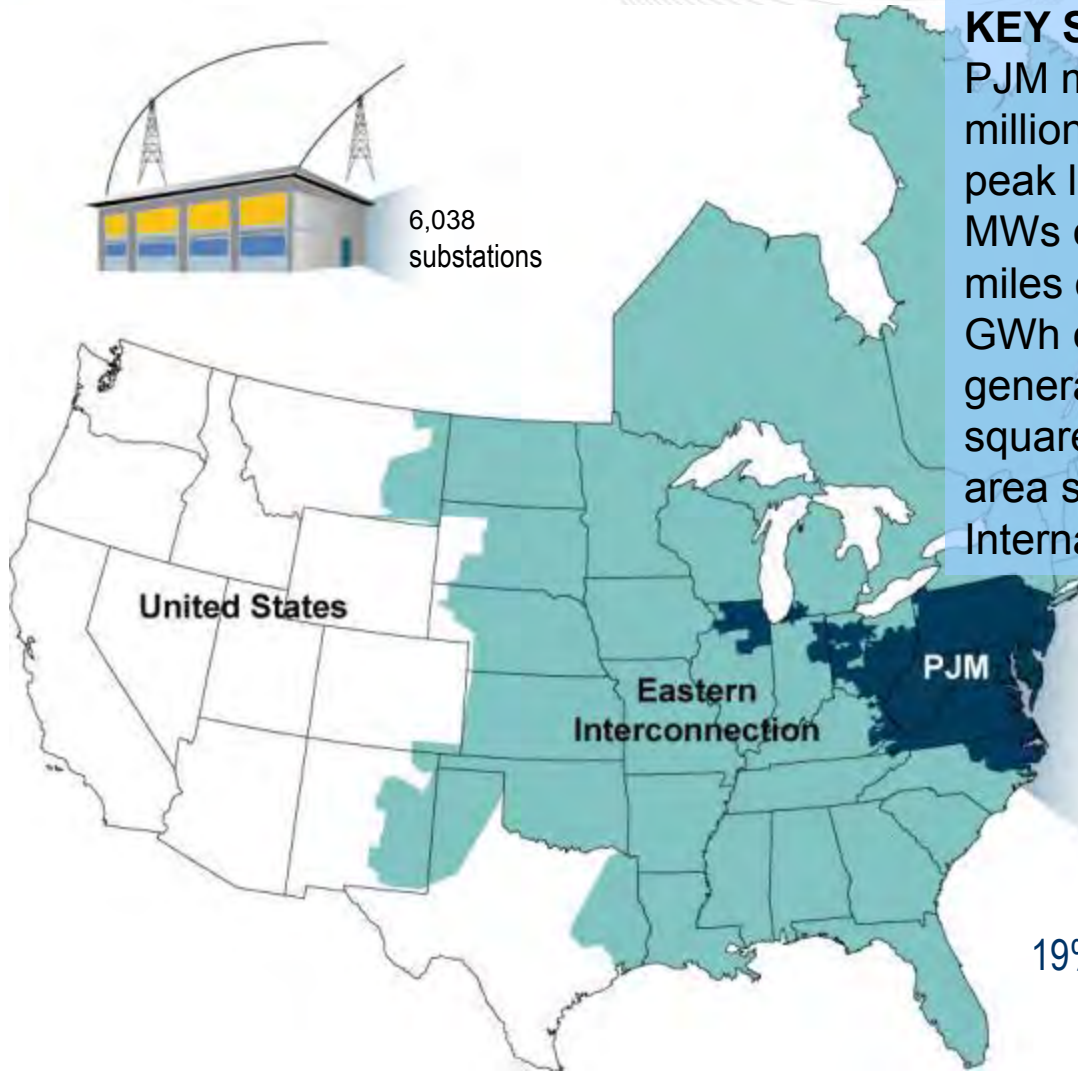
December 8, 2009  
Mike Kormos



6,038  
substations

## KEY STATISTICS

PJM member companies	500+
millions of people served	51
peak load in megawatts	144,644
MW of generating capacity	164,905
miles of transmission lines	56,250
GWh of annual energy generation	729,000
generation sources	1,271
square miles of territory area served	164,260
area served	13 states + DC
Internal/external tie lines	250



26% of generation in Eastern Interconnection

23% of load in Eastern Interconnection

19% of transmission assets in Eastern Interconnection

19% of U.S. GDP produced in PJM



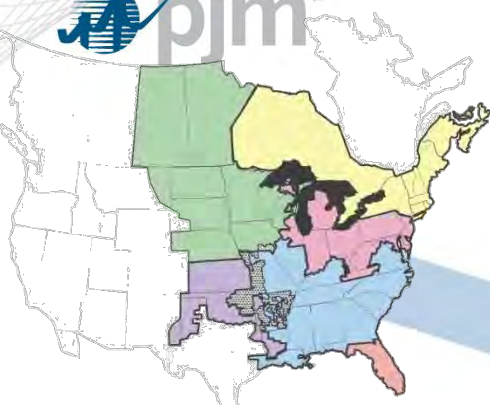
# Eastern Interconnection Planning Collaborative

- Rolls-up regional plans
- Coordinates with Canada, Western Interconnect and Texas
  - Receives stakeholder input and holds public meetings
  - Performs studies of various transmission alternatives against national, regional and state energy/economic/environmental objectives
- Identifies gaps for further study

Publishes Annual Interconnection Analysis



Annual interconnection analysis



## States

- Regional Policy recommendations
- State energy policies
  - Rate Policies



DOE / FERC

Provides policy direction, assumptions & criteria

Regional/state compliant plans provided as input

Study gaps relative to national, regional and state policy



FERC

- Review/direction
- Order adjustments

Regional Plans and Projects

## ISO / RTOs & Order 890 Entities

- Produce Regional Plan through regional stakeholder process, including state regulatory authorities



## States

- Policy recommendations
- State energy plans

- Topic A: Analysis and Planning
- Topic B: Grants to States
- PJM lead a Topic A bid
- Involves Entire Eastern Interconnection Planners
- Bids Submitted: September 14, 2009
- Official start 1/1/2010
- Early Stakeholder Outreach

# DOE Bid Project Organization

**Eastern Interconnection Planning Collaborative (EIPC)**

*(Open Collaborative Process)*

**Project Manager For DOE Project Award**

**EIPC Analysis Team**

- **Principal Investigators**
- **Planning Authorities**

**Stakeholder Steering Committee (SSC)**

**Stakeholder Work Groups**

**Executive Leadership**

**Technical Leadership And Support Group**

**Stakeholder Groups**

**States**

**Provinces**

**Federal**

**Owners Operators Users**

**DOE Project Award Subcontractors**



- Principal Investigators
  - PJM, NYISO, ISO-NE, MISO, TVA, Southern, Entergy, MAPPCOR
- Other EIPC Planning Authorities (95% load coverage)
  - Contribute technical personnel and data
- Charles River Associates
  - Production Cost Modeling
- Oak Ridge National Laboratory
  - Reliability Review
- The Keystone Center
  - Stakeholder Facilitation

# EIPC Bid Proposed Timeline

<b>STAKEHOLDER WEBCAST</b>	<b>October 13, 2009</b>
STAKEHOLDER WEBCAST	October 16, 2009
STAKEHOLDER PRE-PROJECT ORIENTATION	Oct / Nov / Dec 2009
INITIATE PROJECT	January 4, 2010
MILESTONE - INTEGRATED REGIONAL PLANS	September 30, 2010
MILESTONE - SCENARIO CONCURRENCE	September 30, 2010
MILESTONE - SCENARIO TRANSMISSION ANALYSIS RESULTS	March 31, 2011
MILESTONE - SCENARIO COST RESULTS	April 29, 2011
MILESTONE - PHASE I STUDY REPORT COMPLETE	June 30, 2011
MILESTONE - GAP / LESSONS DOCUMENTATION COMPLETE	December 26, 2011
MILESTONE - PHASE II INTEGRATED REGIONAL PLANS	August 23, 2012
MILESTONE - PHASE II SCENARIO CONCURRENCE	August 23, 2012
MILESTONE - PHASE II SCENARIO TRANSMISSION ANALYSIS RESULTS	January 16, 2013
MILESTONE - PHASE II SCENARIO COST RESULTS	April 11, 2013
MILESTONE - PHASE II STUDY REPORT COMPLETE	June 28, 2013

## Next Steps

- DOE selection?
  - any time (Nov 2 deadline past) and Final Contract previously anticipated by Dec 31, 2009
- Reach-out to states and other policymakers
- First Stakeholder Meeting(s)
  - Two webcasts were held Oct. 13 and 16
- All steps are slowed by delayed selection
- Establish Website – [www.eipconline.com](http://www.eipconline.com)





Eastern Interconnection States' Planning  
Council (EISPC)  
DOE DE-FOA-0000068  
Topic B Proposal

- Applicant: The National Association of Regulatory Utility Commissioners
- Funding Request: \$14,780,402
- 2 Voting Representatives from 39 States and DC
- State Commissioners and Governor representatives
- Individual states will not cede any current legal authority.

### Goals:

- Attempt to achieve consensus on inputs to Topic A
  - Assumptions, scenarios and criteria
  - Feedback to Topic A modeling results
  - Evaluation of final Topic A model
- Provide insight into economic and environmental implications.
- Conduct studies on key issues and prepare whitepapers
  - DSM, renewables, nuclear siting, coal potential, energy storage, gas prices, etc.
  - Identify potential locations of low or no carbon generation.