

**Agenda**  
**FERC Technical Conference**  
**Interconnection for Wind Energy and Other Alternative Technologies**  
**September 24, 2004**

10:30 a.m. Introductions  
Bruce Poole, FERC

10:40 a.m. Presentation of the American Wind Energy Association (AWEA)  
Petition  
Jim Caldwell, Director of Policy, PPM Energy, on behalf of AWEA

**Morning Session: Special Interconnection Requirements for Wind Energy  
And Other Alternative Technologies**

*Questions to be considered:*

- I. Should there be special interconnection requirements for wind generators, or should these interconnections be governed by the requirements of Order No. 2003 and Order No. 2003-A?
  - a. How are wind technologies different?
  - b. What is meant by low voltage ride-through capability? How does it work?
  - c. Is a low voltage ride-through standard necessary for the interconnection of wind generators? Why or why not?
  - d. Do intermittent generators need special interconnection requirements?
  - e. Are wind generators able to provide reactive power? Should they be required to provide reactive power?
  - f. Should wind generators be exempted from the power factor design criteria set forth in Order No. 2003-A. Yes or No, and discussion of why.
  - g. Are there other technologies that also need special interconnection requirements like wind? What technologies? Why?
  - h. Should wind technologies be exempted from having to file the full engineering and system design information at the time of the interconnection request?
  - i. What is the experience of transmission providers and State regulatory agencies with interconnecting wind and other such technologies?

- II. How should any special interconnection requirements be related to the size of the wind facility?
  - a. How do these requirements vary with the size of the wind facility?
  - b. Are any special interconnection requirements also necessary for small (under 20 MW) wind facilities?

11:00 a.m. Panel Discussion  
 Thomas Basso, Senior Scientist/Engineer, National Renewable Energy Laboratory, on behalf of IEEE  
 Jack Hochheimer, Transmission Manager, FPL Energy, LLC  
 Nick Miller, Principal Consultant, GE Energy  
 Craig Quist, Principal Engineer, PacifiCorp, former Chair of the WECC Technical Studies Subcommittee  
 Edward Torrero, Senior Program Manager, National Rural Electric Cooperative Association (NRECA)  
 Steven Saylor, Chief Electrical Engineer, Vestas Americas  
 Dr. Pouyan Pourbeik, Principal Consultant, ABB Inc.

1:00 p.m. Lunch

**Afternoon Session: Reliability and Safety Implications and Special Modeling Considerations**

*Questions to be considered:*

- c. Should there be special requirements for large wind farms? For example, should large wind facilities be required to determine SCADA (system control and data acquisition) equipment prior to the interconnection studies?
  - d. What SCADA information is required?
- III. What, if any, are the Reliability and Safety implications of the AWEA proposal?
  - IV. Are special standards needed for wind interconnection studies?
    - a. Are wind and other such technologies properly represented in the current engineering models used in interconnection system impact studies?
    - b. Is any special generating or system design information or models needed to conduct interconnection studies?

- 2:00 p.m. Panel Discussion  
Eric Laverty, Technical Lead, Interconnection Engineering,  
Midwest ISO  
Mike Jacobs, Eastern Representative, American Wind Energy  
Association (AWEA)  
Bill Whitehead, General Manager, Transmission and Interconnection  
Planning, PJM Interconnection LLC  
Patricia Arons, Manager of Transmission and Interconnection  
Planning, Southern California Edison  
Charles Matthews, Electrical Engineer, Bonneville Power Authority  
Wayne Haidle, Engineer, Montana-Dakota Utilities Co.  
Jeffrey V. Conopask, Ph.D., Senior Economist, Public Service  
Commission of the District of Columbia, on behalf of  
The National Association of Regulatory Utility  
Commissioners (NARUC)  
Paul Lehman, Transmission Consultant, P.E., Xcel Energy, on  
behalf of Edison Electric Institute (EEI)  
Kenneth Donohoo, Manager, System Planning, Electric Reliability  
Council of Texas (ERCOT)
- 4:00 p.m. Audience Participation
- 4:30 p.m. Adjourn