



UTILITY WIND INTEREST GROUP ANNUAL MEETING

WIND INTEGRATION: FOCUS ON SYSTEM OPERATION

April 11-13, 2005
Hilton Minneapolis
Minneapolis, MN

PROGRAM AGENDA

Monday, April 11 User Group Meetings (UWIG Members and Guests Only)

7:00 a.m. – 8:00 a.m.

Registration & Continental Breakfast

Location: Foyer BC

8:00 a.m. – 5:15 p.m.

User Group Meetings

Location: Salon B

8:00 a.m. – 9:30 a.m.

Market Operations and Transmission Policy User Group Meeting

Chair: Ed DeMeo, Renewable Energy Consulting Services

9:30 a.m. – 10:00 a.m.

Break

Location: Foyer BC

10:00 a.m. – 12:00 a.m.

Operating Impact and Integration Study User Group Meeting

Chair: Charlie Smith, UWIG

12:00 p.m. – 1:00 p.m.

Lunch

Location: Salon C

1:00 p.m. – 2:30 p.m.

Distributed Wind Applications User Group Meeting

Chair: Jeff Lamoree, EnerNex Corporation

2:30 p.m. – 3:00 p.m.

Break

Location: Foyer BC

3:00 p.m. – 5:15 p.m.

Wind Plant Modeling and Interconnection User Group Meeting

Chair: Bob Zavadil, EnerNex Corporation

Tuesday, April 12

7:00 a.m. – 8:00 a.m.

Registration & Continental Breakfast

Location: Foyer BC

8:00 a.m. – 5:45 p.m.

Technical Sessions

Location: Salon B

8:00 a.m. – 8:30 a.m.

Opening Session

Welcome & Introductions

Brad Reeve, UWIG President/Kotzebue Electric Association

Local Welcome

Kent Larson, Vice President, Jurisdictions, Xcel Energy

Meeting Overview

Charlie Smith, UWIG

8:30 a.m. – 9:45 a.m.

Session I: So You Want to be a Balancing Authority

Session Chair – Doug Hils, Cinergy, Chair: MISO Control Area Working Group

Industry Functional Model – What Happened to the Control Area Operator
– Balancing Authority Requirements and Responsibilities

Don Benjamin, NERC

Balance Resources and Demand: Review of Proposed Standard 300

Doug Hils, Cinergy, Chair: MISO Control Area Working Group

Loss of Generation – A Disturbance Control Standard or Reserve Sharing
Group Issue

Bill Grant, Xcel Energy

9:45 a.m. - 10:15 a.m.

Break

Location: Foyer BC

10:15 a.m. – 12:00 p.m.

Session I: So You Want to be a Balancing Authority (continued)

Session Chair – Doug Hils, Cinergy, Chair: MISO Control Area Working Group

Non-Control Area Utility Viewpoint on Scheduling Mismatch: Is it
Inadvertent Interchange or Unscheduled Deviation?

Jake Langthorn, Oklahoma Municipal Power Agency

Advantages and Disadvantages with Respect to Control Area Size

David Hawkins, CAISO

Dynamic Scheduling Examples
Doug Hils, Cinergy

Panel Presentation and Discussion - RTO Perspectives on Integrating
Wind Plants into System Operations with Diverse Control Area Models
Scott Herbst, MISO
Ken Donohoo, ERCOT
David Hawkins, CAISO
Dave Lawrence, NYISO

Open Discussion - Solving the Control Area Size Issue for Wind
Generation

12:00 p.m. – 1:00 p.m.

Lunch

Location: Salon C

1:00 p.m. – 3:00 p.m.

**Session II: Dynamic Var and Low Voltage Ride-through Support for Wind
Plants**

Session Chair – Ed Weber, WAPA

What Are the Performance Requirements
Bob Zavadil, EnerNex Corporation
Randy Lindstrom, Nebraska Public Power District

At the Terminals
Bud Kehrl, American Superconductor
Gerald Keane, S&C Electric
Christian Sasse, AREVA T&D
Mark Reynolds, Siemens
Chris Larsen, ABB

Or in the Machine
Reigh Walling, GE Energy
Steve Saylor, Vestas Americas

3:00 p.m. – 3:30 p.m.

Break

Location: Foyer BC

3:30 p.m. – 5:45 p.m.

Session 3: Regional Wind Power Developments

Session Chair – Stephen Jones, Xcel Energy

Transmission Considerations
Dale Osborn, MISO

Community Wind Energy
Moderator – Lisa Daniels, Windustry
- Tom Wind, Wind Utility Consulting

- Jeff Paulson, Jeffrey C. Paulson & Associates

Large Wind Plants

Moderator – Richard O’Conor, We Energies

- Bob Vosberg, Alliant Energy
- Stan Selander, Great River Energy
- Brent Gale, MidAmerican Energy
- Gary Thompson, Nebraska Public Power District

5:45 p.m. Closing Comments: Charlie Smith

Adjourn

6:30 p.m. – 8:30 p.m.

Reception and UWIG Annual Achievement Award Presentation

Co-sponsored by UWIG and Xcel Energy

Location: Salon C

Wednesday, April 13

7:00 a.m. – 8:00 a.m.

Registration & Continental Breakfast

Location: Foyer BC

8:00 a.m. – 9:30 a.m.

UWIG Annual Membership Meeting (UWIG members and guests)

Location: Salon B

9:30 a.m. – 10:00 a.m.

UWIG Board of Directors Officer Election (Board members only)

Location: Salon B

10:00 a.m. – 10:30 a.m.

Break

Location: Foyer BC

10:30 a.m. – 12:00 p.m.

Roundtable Discussion (UWIG members and guests)

Location: Salon B

12:00 p.m. – 1:00 p.m.

Lunch

Location: Salon C

1:15 p.m.

Tour Buses Depart Hotel

Location: Hotel Lobby

1:30 p.m. – 5:30 p.m.

Tour – G. McNeilus Wind Farm; Dodge Center, MN – transportation to be provided from the hotel

6:30 p.m. – 8:00 p.m.

Reception at WindLogics – transportation to be provided from the hotel

Sponsored and Hosted by WindLogics in Partnership with EnerNex Corporation