



UTILITY WIND INTEGRATION GROUP SPRING TECHNICAL WORKSHOP

April 13-15, 2011
Crown Plaza, Kansas City, MO

PROGRAM AGENDA

Wednesday April 13, 2011

User Group Meetings (UWIG Members and Invited Guests Only)

7:00 a.m. – 8:00 a.m.

Registration & Continental Breakfast

Location: Salon A Foyer

8:00 a.m. – 5:00 p.m.

User Group Meetings (Parallel Sessions)

8:00 a.m. – 12:00 p.m.

Operating Impact and Integration Study User Group Meeting

Location: Salon A

Chair: Ed DeMeo, Renewable Energy Consulting Services

8:00 a.m. – 12:00 p.m.

Solar Integration User Group Meeting

Chair: Abe Ellis, Sandia and Debbie Lew, NREL

Location: Salon B

9:45 a.m. – 10:15 a.m.

Break

Location: Salon A Foyer

12:00 p.m. – 1:00 p.m.

Lunch

Location: Salon C

1:00 p.m. – 5:00 p.m.

Market Operations and Transmission Policy User Group Meeting

Location: Salon A

Chair: Charlie Smith, UWIG

1:00 p.m. – 5:00 p.m.

Wind Plant Modeling and Interconnection Study User Group Meeting

Location: Salon B

Chair: Bob Zavadil, EnerNex Corporation

3:00 p.m. – 3:30 p.m.

Break

Location: Salon A Foyer

6:30 p.m. – 8:30 p.m.

UWIG Board of Directors Meeting

Location: Boardroom 2625

Thursday April 14, 2011

7:00 a.m. – 8:00 a.m.

Registration & Breakfast

Location: Salon A Foyer/Salon C

8:00 a.m. – 5:00 p.m.

Spring Workshop Technical Program

Location: Salon A

8:00 a.m. – 8:30 a.m.

Welcome and Overview Session

Welcome & Introductions

Henry Durrwachter, UWIG President/Luminant

Local Welcome and Address: A Utility Point of View on Wind Energy

Bill Fehrman, President and CEO, MidAmerican Energy Company

Meeting Introduction and Overview

Charlie Smith, UWIG

8:30 a.m. – 10:00 a.m.

Fossil Fleet Flexibility Improvement

Session Chair: Steve Beuning, PSCo

Fossil Plant Cycling Cost – What's it All About

Steve Lefton, Aptech

Part Load Fossil Plant Efficiency

Greg Brinkman, NREL

Operating Experience with an LMS-100

Ron Rebenitsch, Basin Electric

10:00 a.m. – 10:30 a.m.

Break

Location: Salon A Foyer

10:30 a.m. – 12:30 p.m.

Variable Generation Integration Studies

Session Chair: Matt Schuerger, Energy Systems Consulting Services

Planning for Flexibility

Aidan Touhy, EPRI

Scenario for a Future European Electricity Grid

Nis Martensen, Energynautics

Simulation Methods, Long Term Planning and Grid Integration of Wind Energy

Katherine Dykes, MIT

PJM Variable Generation Integration Study

Ken Schuyler, PJM

CAISO 33% Renewables Integration Study
Clyde Loutan, CAISO

Wind Integration Study Comparisons
Michael Milligan, NREL

12:30 p.m. – 1:30 p.m.

Lunch

Location: Salon C

1:30 p.m. – 2:45 p.m.

Synchrophasors: What's It All About?

Session Chair: Jay Caspary, SPP

Synchrophasor Basics and Application to Variable Generation
Mack Grady, UT

DOE Synchrophasor Measurement Program
Tom Rizy, ORNL

Synchrophasor Applications and Data Visualization
Abhijeet Agarwal, The Electric Power Group

Wind Turbine and PV Model Validation Requirements and Synchrophasors
Bob Zavadil, EnerNex

2:45 p.m. – 3:15 p.m.

Break

Salon A Foyer

3:15 p.m. – 5:00 p.m.

Variable Generation Modeling and Power System Operations Developments

Session Chair: Mark O'Malley, UC Dublin

Wind Plants and System Frequency Response
Nick Miller, GE

Field Test Results of Governor Response
Steve Saylor, Vestas

Analysis of BA Cooperation in WECC
Nader Samaan, PNNL

ERCOT Nodal Market Design Implementation
John Dumas, ERCOT

5:00 p.m.

Adjourn for Day

6:00 p.m. – 8:00 p.m.

Reception and Awards Presentation

Location: Salon C

Friday, April 15, 2011

7:00 a.m. – 8:30 a.m.

Breakfast

Location: Salon C

7:30 a.m. – 8:30 a.m.

Membership Meeting (Members Only)

Location: Salon A

Membership Meeting & Board of Directors Election

8:30 a.m. – 12:15 p.m.

Spring Workshop Technical Program

Location: Salon A

8:30 a.m. – 10:00 a.m.

Variable Generation Integration and Market Design

Session Chair – Ty Bettis, PGE

NREL/EPRI Wind Plant Active Power Control Project
Erik Ela, NREL and Daniel Brooks, EPRI

MISO Market Changes for Variable Generation
Nivad Navid, MISO

WECC Energy Imbalance Market Status
Steve Beuning, Xcel Energy

BPA Conditional Firm Wind Designation Proposal
Bart McManus, BPA

SPP Imbalance Market Implementation
Jay Caspary, SPP

10:00 a.m. – 10:30 a.m.

Break

Location: Salon A Foyer

10:30 a.m. – 12:15 p.m.

Technology and Industry Developments

Session Chair: Dale Osborn, MISO

Best Practices for Wind Plants on Series Compensated Grids
Einar Larsen, GE

Modeling Considerations for Series Compensated Wind Plants
Amit Jindal, Electranix

Wind Plants on Series Compensated Grids - A TSO's Viewpoint
Paul Hassink, AEP

VG Forecasting Workshop Summary
Debbie Lew, NREL

Wind Industry Update
Michael Goggin, AWEA

12:15 p.m.

Closing Remarks – Charlie Smith

Adjourn

Friday P.M. April 15, 2011

Siemens National Service Center Facility Tour