



# UTILITY WIND INTEGRATION GROUP SPRING TECHNICAL WORKSHOP

April 15-16, 2010  
The Nines – Portland, Oregon

## PROGRAM AGENDA

### Thursday April 15, 2010

7:00 a.m. – 8:00 a.m.

#### **Registration & Breakfast**

Location: Design Foyer

8:00 a.m. – 5:00 p.m.

#### **Spring Workshop Technical Program**

Location: Design & Fashion

8:00 a.m. – 8:30 a.m.

#### **Welcome and Overview Session**

##### Welcome & Introductions

Henry Durrwachter, UWIG President/Luminant

Local Welcome and Address: Pacific Northwest Wind Action Plan Status Report  
Elliot Mainzer, Executive Vice President, Corporate Strategy, Bonneville Power Administration

##### Meeting Introduction and Overview

Charlie Smith, UWIG

8:30 a.m. – 10:00 a.m.

#### **Evolution of Systems Operations Thinking in the Pacific Northwest**

Session Chair: Scott Brattebo, Public Generating Pool

##### Proposal for WECC to Develop an Energy Imbalance Market

Steve Beuning, Xcel Energy

##### Evolutionary Thinking on Reserve Sharing Groups, DCS Reliability Standard, and Wind Ramps

Ty Bettis, Portland General Electric

##### NTTG/WestConnect/ColumbiaGrid Joint Initiative

Charlie Reinhold, WestConnect

##### BPA Dispatcher Standing Order 216 and Wind Integration Tariff: What's it all about?

Bart McManus, BPA

10:00 a.m. – 10:30 a.m.

**Break**

Design Foyer

10:30 a.m. – 12:00 p.m.

**The Latest on Forecasting R&D and Applications**

Session Chair: Pascal Stork, 3TIER

BPA Forecasting Project

John Zack, AWS/Truewind

Xcel/NCAR Forecasting Project Update

Bill Mahoney, NCAR

Scheduling in a Wind-Only Balancing Authority

Ken Young, NaturEner

Highlights of the Albuquerque Forecasting Workshop

Justin Sharp, Iberdrola Renewables

12:00 p.m. – 1:00 p.m.

**Lunch**

Location: Culture

1:00 p.m. – 2:45 p.m.

**Wind Integration Study Results**

Session Chair: Dave Corbus, NREL

Western Wind and Solar Integration Study

Debbie Lew, NREL

Eastern Wind Integration and Transmission Study

Bob Zavadil, EnerNex Corporation

Southwest Power Pool WITF Wind Integration Study

Bruce Tsuchida, CRA International

WECC TEPPC 2019 RPS and NW Wind Location Studies

Heidi Pacini, WECC

Hawaii Wind Integration Study

Devon Manz, GE Energy Applications and Systems Engineering

2:45 p.m. – 3:15 p.m.

**Break**

Design Foyer

3:15 p.m. – 5:00 p.m.

**Technology Developments/Applications of Interest**

Session Chair: Brad Reeve, Kotzebue Electric Association

Utility-Scale Battery Energy Storage Systems & Applications

Devon Manz, GE Energy Applications and Systems Engineering

Lithium Titanate Storage Battery  
Joe Heinzmann, Altairnano

Application of Fast-Response Energy Storage in NYISO for Frequency  
Regulation Services  
Chet Lyons, Beacon Power

New Approaches to Managing Wind Variability  
Jim Blatchford, California ISO

Need for Market Process Enhancements for High Wind Generation Penetration  
Nivad Navid, Midwest ISO

5:00 p.m.

**Adjourn for Day**

6:00 p.m. – 8:00 p.m.

**Reception and Awards Presentation**

Location: Culture

**Friday, April 16, 2010**

7:00 a.m. – 8:30 a.m.

**Breakfast**

Location: Design Foyer

7:30 a.m. – 8:30 a.m.

**Membership Meeting (Members Only)**

Location: Design & Fashion

Membership Meeting

Board of Directors Election

8:30 a.m. – 12:10 p.m.

**Spring Workshop Technical Program**

Location: Design & Fashion

8:30 a.m. – 10:00 a.m.

**Utility Wind Project Owners Panel**

Session Chair – Gary Thompson, NPPD

Building a Wind Plant Portfolio

Ty Bettis, Portland General Electric

Incorporating Wind as Part of a Public Power Supply Portfolio

Kevin Gaden, Municipal Energy Agency of Nebraska

Innovative Approaches to Public Power Project Finance

Brian Skeahan, Cowlitz PUD

Installing Large Turbines in Remote Locations

Bob Coates, Kodiak Electric Association

10:00 a.m. – 10:30 a.m.

**Break**

Location: Design Foyer

10:30 a.m. – 12:00 p.m.

**Industry Updates**

Session Chair: Ed DeMeo, Renewable Energy Consulting Services

IEEE Wind Plant Collector System Design Activities

Ernst Camm, S&C Electric

Preliminary System Stability Study Results for the Eastern Interconnection with

High Wind Penetration

Dale Osborn, Midwest ISO

Role of Storage in Wind Integration

Mark O'Malley, University College Dublin

EnerNex/UWIG Turbine Model Application Guide Project Update

Bob Zavadil, EnerNex Corporation

Wind Industry Update

Michael Goggin, AWEA

12:00 p.m. – 12:10 p.m.

**Closing Remarks – Charlie Smith**

**Adjourn**

**Friday P.M. April 16, 2010**

**Moventas Gearbox Manufacturing Facility Tour**