



UWIG Spring Meeting

Wind Integration:

A Capital View



Arlington, VA
April 5-7, 2006

UWIG – Meeting Overview

- ◆ High Wind Penetration Implications
- ◆ Balancing Areas – Size and Performance
- ◆ Interconnection Topics
- ◆ Turbine Technology
- ◆ Integration Study Reports
- ◆ User Group Meetings
- ◆ Site Visit – Mountaineer Wind Energy Facility



Recent Industry Developments

- ◆ PTC extended to end of 2007
- ◆ State RPS legislation continues to expand
- ◆ ERO legislation established
- ◆ Increasingly public discussion of carbon tax
- ◆ With increasing oil and natural gas prices, wind energy often least cost option
- ◆ UWIG continues to expand membership, and pursue strong technical agenda adding new user group and User Group R&D Plan



UWIG Meeting Overview -- 3

Wind Industry Is Maturing

- ◆ Wind industry projected to install 3,000 MW in '06
- ◆ Domestic wind capacity surpasses 9,000 MW
- ◆ Global wind capacity surpasses 59,000 MW
- ◆ Domestic Activities
 - FERC Order 661-A
 - AWEA Transmission Comm.
 - WECC Modeling and Validation WG
- ◆ International Activities
 - National Grid Codes
 - IEC and CIGRE Activities
- ◆ IEEE makes a home for wind power in the Power Engineering Society



UWIG Meeting Overview -- 4

Significant Current Events

- ◆ September – FERC NOI on OATT (Order 888) reform
- ◆ October – Hydro Quebec Distribution issues RFP for 2,000 MW of wind capacity; Portugal issues tenders requesting 1700 MW total
- ◆ November-December issue of IEEE PES Power & Energy magazine special edition dedicated to integrating wind power into utility systems
- ◆ Feb. '06 - President Bush visits NREL and sees no reason why wind can't contribute 20% of nation's electrical energy requirement in the future
- ◆ March '06 – Comments due on DOE transmission congestion study; Conference on National Interest Electric Transmission Corridors
- ◆ April '06 – Joint IEEE/AWEA/UWIG Wind Power Symposium for policy makers to be held in Wash, DC
- ◆ June '06 – First meeting of IEEE PES Wind Power Coordinating Committee at PES Annual Meeting in Montreal

