



UWIG Fall Technical Workshop

Wind Integration:

Focus on Eastern Markets

Albany, New York

October 27-28, 2004



UWIG – Meeting Overview

- ◆ Regional Activities: Eastern Electricity Markets
- ◆ System Planning: Wind Integration Studies and Issues
- ◆ Technology Advances and Issues
 - NREL advanced turbine program
 - Hydrogen from wind
 - Transmission line monitoring
 - High ampacity transmission lines
- ◆ Wind Project Developments
- ◆ User Group meetings
- ◆ Utility Roundtable
- ◆ NYISO Control Center and GE R&D Lab site visits



Recent Industry Developments

- ◆ Increasing natural gas prices
- ◆ 73,000 MW coal on the drawing boards
- ◆ PTC extended to end of 2005
- ◆ Wind energy often least cost option
- ◆ Wind stakeholders gaining experience and confidence
- ◆ UWIG expanding scope and membership
- ◆ UWIG pursuing strong technical agenda



Wind Industry Is Maturing

- ◆ Number and size of wind plants
- ◆ ISOs are taking note
- ◆ Domestic Activities
 - FERC Order 2003A
 - AWEA Grid Code
 - UWIG Modeling User Group
- ◆ International Activities
 - National Grid Codes
 - IEC and CIGRE Activities
- ◆ Application of Traditional Power System Engineering Disciplines



Significant Current Events

- ◆ Sept 24- FERC Technical Conference on Appendix G of Order 2003A held in DC
- ◆ Oct 4- Production Tax Credit extended through 2005
- ◆ Oct 12- IEEE panel session on wind operating impacts
- ◆ Oct 27- UWIG meeting featuring wind participation in competitive electricity markets
- ◆ Dec 1- FERC Technical Conference on policy changes necessary to better accommodate wind energy in wholesale electricity markets

