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Tuesday, August 2

The National Perspective: Executive Leadership Acting to Improve Wind Plant Reliability

Welcome to the 2011 Wind Turbine Reliability Workshop, Roger Hill, *Sandia National Laboratories* **(verbal presentation)**
A letter from Senator Udall, Bill Woldman, *Field Representative, Office of Senator Tom Udall* **(verbal presentation)**
Perspectives, Steve Chalk, *Deputy Assistant Secretary of Renewable Energy, U.S. Department of Energy* **(verbal presentation)**
Keynote Address, Jon Wellinghoff, *Chairman, Federal Energy Regulatory Commission* **(verbal presentation)**
Overview of Energy and Wind Activities at Sandia, Rick Stulen, *Vice President, Sandia National Laboratories*
Recognitions, Bridget McKenney, *Sandia National Laboratories* **(verbal presentation)**
Acting to Improve Wind Plant Reliability, Sal Della Villa, *Strategic Power Systems*
EnBW Baltic 1 Germanys First Commercial Offshore Experience, Werner Götz, *Energie Baden-Württemberg (EnBW)*
Optimal Performance through Data Analysis and Performance Engineering, Marty Crotty, *Upwind Energy*

The Grid Connection: Redefining Wind's Role in Reliability of the Nation's Largest Machine

Reliability Impacts of High Wind Penetrations, Charlton Clark, *U.S. Department of Energy*
Renewable Integration MISO, John Lawhorn, *Midwest ISO*
Integrating Variable Generation into the Grid, Abraham Ellis, *Sandia National Laboratories*

Operations and Maintenance: Sustaining Operations for Sustainable Systems [PANEL]

Bridget McKenney, *Sandia National Laboratories*, Panel Moderator **(verbal remarks)**
Dick Williams, *Shell Wind* **(verbal remarks)**
enXco: A Leader in Renewable Energy, Ninochska Maldonado, *enXco*
Eduardo Perez, *Wind Capital Group* **(verbal remarks)**
Marty Crotty, *Upwind Energy* **(verbal remarks)**
Werner Götz, *Energie Baden-Württemberg (EnBW)* **(verbal remarks)**

Wednesday, August 3

Data to Information to Profits: Reliability Analysis from Data Collection

CREW Reliability Benchmark; Initial Findings and Lessons Learned, Valerie Peters, *Sandia National Laboratories*
Work in the IEC on Wind Turbine Availability, Bob Sherwin, *EAPC Wind Energy*
Real-Time Data Infrastructure for Large Scale Wind Fleets –Return on Investment vs. Fundamental Business Requirements, David Zeglinski, *OSIsoft*
Establishing a Common Database for Wind Turbine Failures, Phillipp Lyding, *Fraunhofer IWES*

What's Happening with Major Components? Looking at the Source of Turbine Reliability

Paul Veers, *NREL*, Session Moderator **(verbal remarks)**
Gearbox Reliability Collaborative, Hal Link, *National Renewable Energy Laboratory*
Investigation of Various Wind Turbine Drivetrain Condition Monitoring Techniques, Shawn Sheng, *National Renewable Energy Laboratory*
Update on the Sandia Blade Reliability Collaborative, Josh Paquette, *Sandia National Laboratories*

Innovative Manufacturing and Supply Chain Concepts: How to Balance Novel Component Designs and Still Ensure Reliability [PANEL]

Innovative Manufacturing and Supply Chain Concepts, Dan Radomski, *Kinetik Partners*, Panel Moderator
Reliability Considerations for Large Off-Shore Blades, Kyle Wetzel, *Wetzel Engineering*
Walco Tool and Engineering, Karen Schultz, *Walco Tool*

Exciting Concepts in Development and the Field: New Systems and Components for Improved Performance

Roger Hill, *Sandia National Laboratories*, Session Moderator **(verbal remarks)**
Application of Modern Engineering Design Tools for Reliability in Wind Turbine Rotating Machinery, Ashley Crowther, *Romax Technology*
Blade Vital Signs-Increasing Reliability and Output with Ongoing Inspection, Repair and "Tune-up" Strategies, Chris Bley, *Rope Partners*
Advanced Wind Rotor and Turbine-Turbine Test Facility, Jon White, *Sandia National Laboratories*