

ADVANCES IN DISTRIBUTED RESOURCES – 2005: PANEL SESSION

Chairman: J. J. Bzura, National Grid USA

This session, the fourth of an annual series, focuses on developments in and applications of distributed generation (DG) and distributed energy storage (DES), which together comprise distributed resources (DR). The program will include an overview of kW-scale wind turbines in urban locations, comparison of energy storage options with data storage technologies, actual applications of energy storage with wind turbines, a wide-ranging review of PV technologies and applications, assessment of two advanced fuel cell technologies and a discussion of DR applications on a utility distribution system.

The session will begin with a brief discussion of the DG & ES Working Group, including the range of technical interests, types of panel session presentations made and potential topics for future panel sessions. Conference attendees interested in DG and ES and willing to join group efforts for future panel sessions are invited to attend the DG&ES Working Group meeting on Tuesday at 5:00 p.m. (preliminary time).

PRESENTATIONS AND PANELISTS

- **Small Wind Turbines in the Built Environment: Opportunities and Grid-connection Issues**
 Johan Driesen, EE Dept., Katholieke Universiteit, Leuven, Belgium
 Karel De Brabandere, EE Dept., Katholieke Universiteit, Leuven, Belgium
 Reinhilde D'hulst, EE Dept., Katholieke Universiteit, Leuven, Belgium
 Ronnie Belmans, EE Dept., Katholieke Universiteit, Leuven, Belgium
- **Multilevel Energy Storage for Intermittent Wind Power Conversion: Computer System Analogies**
 Kai Strunz, SESAME Laboratory, EE Dept., University of Washington, Seattle, WA
 Jens Nedrud, SESAME Laboratory, EE Dept., University of Washington, Seattle, WA
- **The Multiple Benefits of Integrating Electricity Storage with Wind Energy**
 Thomas Hennessy, VRB Power Systems, Inc.
 Mark Kuntz, VRB Power Systems, Inc.
- **Advances in Solar Photovoltaic Technology: An Applications Perspective**
 Philip Barker, Nova Energy Specialists, LLC, Schenectady, NY
 James Bing, New Energy Options, Littleton, MA
- **Advances in Selected Fuel Cell Technologies**
 John Bzura, National Grid USA, Northborough, MA
 David Nichols, American Electric Power, Columbus, OH
- **Distributed Resources Application on Distribution Systems**
 David Nichols, American Electric Power, Columbus, OH
 D. Fitchett, American Electric Power, Columbus, OH
 John Kelly, Gas Technology Institute