

4th International Conference on
**Integration of
 Renewable and Distributed
 Energy Resources**
 December 6–10, 2010
 Albuquerque, NM USA

R&D Collaboration for DG-Ready Grid Architecture Workshop

Date: Monday, December 6, 2010

Time: 8:00 am to 12:30 pm

Cost: \$25/person

Workshop Registration Limit: 50 people total

Description: This workshop will offer a forum for the international research community to discuss research, strategy and future standards that will be required for the transformation of traditional grid architecture and operation to a DG-ready grid integrating a high level of distributed generation resources. Dialog will focus on the main challenges of this development—particularly customer integration and building automation, high share of inverter-based control, protection, metering, and communications issues. Several case studies will be presented highlighting gaps between current practices and standards and what will be needed for a DG-ready grid architecture. This will be followed by an interactive panel discussion to promote cooperation among industry and research institutions.

Agenda:

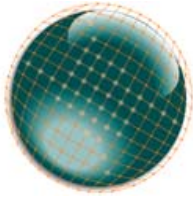
| Time | Topic | Speakers | Description |
|------------------|---|---|---|
| 8:00 - 08:15 am | Registration, Welcome and Introductions | | |
| 8:15 - 08:45 am | Introduction to Smart Grid Strategies | <i>Martin Braun</i> , Team Lead at Fraunhofer, University of Stuttgart, Germany <i>Grahame Foulger</i> , Director, SmartGrid Partners, Australia | Overview of smart grid goals and strategies in the U.S. and Europe |
| 08:45 - 09:30 am | Decentralized Energy Management | <i>Oliver Gehrke</i> , RISO, Denmark <i>Robert Welch</i> , VP-Sustainable Generation Solutions, KEMA, US | Customer incentive strategies Regulatory aspects Experiences from field tests Technical options and challenges |
| 9:30 - 9:45 am | Coffee break | | |
| 9:45 - 10:30 am | Decentralized Ancillary Services | <i>Werner Coppye</i> , Technical Director, 3E Engineering <i>Wade Troxell</i> , Colorado State University, US | Overview of decentralized ancillary services such as voltage control, congestion management and micro-grid operation with high share of inverter-based generation; gap analyses, and future needs |
| 10:30 - 11:15 am | Connection of Smart Grid with Home Automation | <i>Pierre Plaza</i> , Coordinator of BeyWatch, Spain <i>Allen Hefner</i> , NIST SmartGrid Team, US | Overview of standards regarding home and building automation, implications of various strategies for distribution of decision making, and potential standards for customer gateways |
| 11:15 - 12:15 pm | Open Discussion | | |
| 12:15 - 12:30 pm | Wrap-Up and Adjournment | | |

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For more information:

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To register for this event: <http://www.4thintegrationconference.com/register.asp>