



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



Workshop: R&D Collaboration for DG-Ready Grid Architecture

**4th International Conference on Integration of
Renewable and Distributed Energy Resources
Albuquerque, New Mexico, USA**

Organizers:

Debora Coll-Mayor – DERlab e.V., Kassel, Germany, EU

Abraham Ellis – Sandia National Laboratories, USA

Jon Hawkins – Public Service Company of New Mexico, USA

Workshop Description

- Discuss research, strategy and future standards that will be required for the transformation of traditional grid architecture & operation to a “DG-ready” grid with high levels of DR.
- **Focus on the main challenges:** customer integration, building automation, high share of inverter-based control, protection, metering, and communications.
- **Case studies** highlighting successes & gaps

Workshop Description

- **Main Goals**

- **Review:** What do we need and why? What works and what does not?
- **Identify main R&D challenges:** What are the priorities gaps? How do we address them?
- **Promote R&D Collaboration:** How do we promote cooperation among industry and research institutions?
- **Actionable steps -**

Revised Agenda

Time	Topic	Speaker
8:00 – 8:15	Registration, Welcome and Introductions	All
8:15 – 9:00	Introduction to Smart Grid Strategies	<i>Grahame Foulger</i> , Smart Grid Partners, Australia <i>Debora Coll-Mayor</i> , DERlab, Germany
9:00 – 9:45	Decentralized Energy Management	<i>Oliver Gehrke</i> , RISO, Denmark <i>Robert Welch</i> , KEMA, US
9:45 – 10:00	Break	
10:00 – 10:45	Decentralized Ancillary Services	<i>Werner Coppys</i> , 3e, Belgium <i>Wade Troxell</i> , Colorado State University, US
10:45 – 11:30	Connection of Smart Grid with Home Automation	<i>Pierre Plaza</i> , BeyWatch, Spain <i>Allen Hefner</i> , NIST, US
10:30 – 12:15	Open Discussion with Speakers Round Table	All
12:15 – 12:30	Wrap-Up & Adjournment	All