

European DERlab Workshops on Grid Inverters

1st Workshop: Frankfurt, 25/06/2008

2nd Workshop: Kassel, 17/09/2008, Kassel University

3rd Workshop: Nice, 9/12/2008, Palais Méditerranée

Motivation

The European Union set a binding target for 20% of the EU's total energy supply to come from renewables by 2020. The resulting high penetration rate of distributed renewable energy sources, which are typically intermittent, will affect the electricity power system. Grid inverters are the key elements to massively integrate distributed renewable energy sources into the power system. Aim of this series of workshops is to define common European requirements for the grid inverter of the future.

Developing an European vision step by step

This series of workshops has been initiated as a result of an international discussion at the DERlab workshop on "*DER Laboratories of Excellence, Testing, and Standards*" that was held at the "*2nd International Conference on Integration of Renewable and Distributed Energy Resources*" in Napa, California, Dec. 2006.

Aim of the first two DERlab workshops is the elaboration of the European draft for the international **White Book on Grid Inverters**. Participants are expected to contribute actively to this document in writing and will be included in the list of authors. This draft will then be discussed on international level during the third DERlab workshop, which will run just before the "*3rd International Conference on Integration of Renewable and Distributed Energy Resources*" in Nice, December 2008.

The scientific DERlab committee will decide to invite you for the participation at the workshop and to include you as author in the **White Book on Grid Inverters**.

Programme

There are four main topics which will be discussed in parallel working groups:

- **Behaviour under fault conditions**
Fault ride through, loss-of-mains protection, network restoration, interaction with network protection systems
- **Energy management**
Design parameters for the complete system (generation, load, storage, grid coupling), operation modes and their management strategies, congestion management
- **Communication and Control**
Harmonised communication protocols, bi-directional communication, agent technologies, grid monitoring, virtual power plants
- **Ancillary Services**
Improvement of power quality, balancing power, demand side services

The discussions of the groups will be presented in a common closing session. The outcome of the workshops will be made available for all participants and will serve as a basis for the discussion in standardisation committees.



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Organiser

This series of workshops is organised by DERlab supported by its member Institut National de l'Energie Solaire (INES/CEA). DERlab is the European Network of Excellence (NoE) of independent laboratories that performs tests, pre-competitive and pre-normative research as well as training activities supporting the transition towards more decentralised power generation.

Date and Venue

The date on 09/12/2008 has been selected to combine with the 3rd *International Conference on Integration of Renewable and Distributed Energy Resources* (www.conference-on-integration.com), which takes place from 10th until 12th of December. The workshop is held at the same venue in the hotel *Le Palais de la Méditerranée* (palais.concorde-hotels.com).

Registration, Logistics

Participation is free of charge however the number of participants is limited. Please register as soon as possible. For registration and logistic details, please email to (workshops@der-lab.net) using the registration form below. Participants/authors will be selected based on the experience shown in the registration form. Further information and updates will be available on <http://www.der-lab.net/workshops>. For technical issues, please contact Jens Merten (jens.merten@cea.fr).

We are looking forward to meeting you and to enjoy fruitful discussions.

Dr. Jens Merten
DERlab Workshop
coordinator

Philipp Strauss
Head of the governing
board DERlab

Dr. Thomas Degner
DERlab Co-ordinator



European DERlab Workshops on Grid Inverters

1st Workshop: Frankfurt, 25/06/2008, Marriot Hotel

2nd Workshop: Kassel, 17/09/2008, Kassel University

3rd Workshop: Nice, 9/12/2008, Palais Méditerranée

Inscription form

Please email to workshops@der-lab.net:

- a copy of this form
- a short description of your expertise (10 lines).

I will provide substantial contributions to the **White Book on Grid Inverters** and I will participate in the following workshop(s) (please tick):

- 1st Workshop: Frankfurt, 25/06/2008, Marriot Hotel
- 2nd Workshop: Kassel, 17/09/2008, Kassel University
- 3rd Workshop: Nice, 09/12/2008, Palais Méditerranée

I want to contribute to the following chapter(s) (please tick):

- Behaviour under fault conditions
- Energy management
- Communication and Control
- Ancillary Services

Areas of expertise (please describe up to 5 areas of expertise):

-
-
-
-
-

Topics where you would wish to contribute:

-
-

Personal information:

Mr Ms Mrs Dr Prof

Family name

First name

Organization

Address

Zip code

City

Phone

FAX

Email

Participation is free of charge.

