Call for Papers

Nordic Wind Power Conference – NWPC’2010
Power System Integration and
Electrical Systems of Wind Turbines and Wind Farms
8-9 December 2010, Trondheim, Norway

Scope of Conference

This sixth Nordic Wind Power Conference will focus on power system integration and electrical systems of wind turbines and wind farms. Invited speakers, oral presentation of papers and poster sessions will ensure this to be a valuable event for professionals and high-level students wanting to strengthen their knowledge on wind power integration and electrical systems.

NWPC presents the newest research results related to technical electrical aspects of wind power, spanning from power system integration to electrical design and control of wind turbines.

Previous NWPC conferences: 2000: Trondheim, Norway
2004: Gothenburg, Sweden
2006: Espoo, Finland
2007: Roskilde, Denmark
2009: Bornholm, Denmark

Conference organization

The Nordic Wind Power Conference is organized in cooperation between four Nordic and Baltic universities and research institutes:
- Chalmers University of Technology, Sweden
- Technical University of Denmark, Denmark
- SINTEF Energy Research, Norway
- VTT Technical Research Centre of Finland, Finland
- Tallinn University of Technology, Estonia

Conference Topics

1. Power System integration
   - impact of wind power on power system operation
   - impact of wind power on power system control and stability
   - means and technologies for improving power system operation
   - impact of wind power on energy market
   - distributed generation control
   - impact of climate change on wind turbine design and power production
2. Grid connection
   - grid integration of offshore wind power
   - impact on power quality
   - protection
   - network requirements
   - transients

3. Wind farm technology and modelling
   - network infrastructure, AC and DC technologies
   - control systems, active and reactive power control
   - wind turbine and wind farm models for power system simulation
   - assessment of models versus measurements
   - aggregation of wind farms

4. Electrical design and control of wind turbines
   - new designs of wind turbine systems
   - new control concepts
   - wind turbine, generator and converter designs
   - grid impact on design and control of wind turbines

5. Wind energy and emerging electric power system technologies
   - other renewable energy sources
   - energy storage technologies
   - electric vehicles
   - market mechanisms

Call for Papers

Papers related to the conference topics are invited for submission. Authors should send extended abstract, 1-2 pages in pdf-format, by email to NWPC2010@sintef.no by 15 October 2010. Please indicate whether you wish to give an oral or poster presentation.

Evaluation of Papers

The evaluation of the extended abstracts will result in accepted for oral presentation, accepted for poster presentation or rejected. Notification of paper acceptance will be given 25 October 2010.

Exhibition and Posters

Separate timeslots will be allocated for presentation of papers that are selected for poster presentation. Participants of the conference are welcome to present their work on a poster (A0) subject to available space.

Proceedings

The papers will be printed in the Conference Proceedings on a CD. Conference participants will receive their CD upon arrival. All papers will be in English.
Venue

The conference will take place in Trondheim, Norway.

Registration and Further Information

A registration form and information about payment will be available at the conference website by 1 September 2010.

Important dates
1 September, 2010: Online registration opens and accommodations information
15 October 2010: Deadline for submitting abstract
25 October 2010: Notification of paper acceptance
29 October 2010: Preliminary program
20 November 2010: Deadline for submitting papers
8 December 2010: Conference dinner
8-9 December 2010: NWPC’2010 conference running, delivery of proceedings on CD

Scientific Committee

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Conference dinner

The conference dinner will take place on the evening 8 December 2010.

Conference Organiser

Sintef Energy
Sem Sælands vei 11
P.O.Box 4761 Sluppen,
7464 Trondheim
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Nordic Wind Power Conference 2010


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