

# Offshore Wind Farm Clusters

Design tools for enhanced performance and value of  
 North Sea offshore wind power

Thursday 06 June 2013

09:00 – 17:00 followed by a drinks reception

Woburn House Conference Centre - Main Hall  
 20 Tavistock Square, London WC1H 9HQ, UK

## Programme

### **Target audience:**

*Offshore wind farm developers, strategic planners, wind farm operators, utilities.*

### **Why attend?**

*The workshop will provide intermediary findings of the two major research projects on offshore wind farm clusters. It also aims at debating/connecting with - people working in offshore wind energy development and planning to improve/enhance - the future integrated design tools for the Northern European offshore wind power.*

9:00– 9:30	Registration and welcome coffee
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### Session 1: 09:30 – 11:00

Moderator: Charlotte Bay Hassager, DTU Wind Energy, Denmark

9:30– 9:40	Design Tool for Offshore Clusters: objectives of the project	Peter Hauge Madsen, DTU Wind Energy, Denmark
9:40– 9:50	Cluster design: objectives of the project	Rory Donnelly, 3E, Belgium
9:50– 10:10	Integration and development of offshore cluster software	Gregor Giebel, DTU Wind Energy, Denmark
10:10– 10:30	Scenarios, conceptual model coupling	Gerard Schepers, ECN, The Netherlands

Support by:



10:30- 11:00	Q&A
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11:00- 11:30	Coffee break
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### Session 2: 11:30 – 13:00

Moderator: Peter Hauge Madsen, DTU Wind Energy, Denmark

11:30- 11:50	Wake modeling	Pierre-Elouan Réthoré, DTU Wind Energy, Denmark
11:50- 12:10	Interconnection optimization and power plant - scenarios	Luis Mariano Faiella, Fraunhofer IWES, Germany
12:10- 12:30	Energy yield prediction of wind farm clusters	Elena Cantero Nouqueret, CENER, Spain
12:30- 13:00	Q&A Wrap-up of the morning sessions	

13:00- 14:15	Lunch
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### Session 3: 14:15 – 15:15

Moderator: Rory Donnelly, 3E, Belgium

14:15- 14:30	Load calculation in wind farm clusters	Dirk Steudel, REpower, Germany
14:30- 14:45	Cluster control modeling and testing	Aidan Marchand, RWE Innogy, Germany
14:45- 15:00	Development of the Cluster design Toolbox	Thanos Kyriazis, 3E, Belgium
15:00- 15.15	Q&A	

15:15- 15.45	Coffee break
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Support by:



Session 4: 15:45 – 17:00

Moderator: Peter Stuart, RES, UK

15:45 – 16:45	Panel discussion on the opportunities and challenges of design tools for the smooth operation of clustered offshore wind farms	<ul style="list-style-type: none"> <li>• Mathijs Soede, European Commission, Belgium</li> <li>• Wei He, Statoil, Norway</li> <li>• Annemie Vermeylen, C-Power, Belgium</li> <li>• The Crown Estate, UK (TBC),</li> <li>• Jason Fields, NREL, USA</li> </ul>
16:45 – 17:00	Q&A Wrap-up of the afternoon sessions	

17:00 – 18:00	<i>Networking drinks reception</i>	
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*Note: please note that the programme is subject to unforeseen changes.*

Support by:

