

SUPERGEN Wind Energy Technologies Consortium Phase 2
2nd Training Seminar
(Difficulty level: intermediate)

Offshore Wind Training Seminar

24th, 25th Mar 2011,
Room D45(b), Sackville Street Building, University of Manchester

Thursday, 24th March

- 10:00-10:30 *Registration, Tea & Coffee*
- 10:30-11:00 **Introduction by Prof Sandy Smith and Prof Bill Leithead**
- 11:00-12:00 **Session 1: HVDC as a bulk power transfer system**
Carl Barker, Chief engineer in Alstom Grid UK
- 12:00-12:40 **Session 2: Control and stability requirements of grid
connected power converters**
Paul Brogan, Siemens
- 12:40-14:00 *Lunch*
- 14:00-15:00 **Session 3: Offshore wind resource**
Prof. Simon Watson, Loughborough University
- 15:00-16:00 **Session 4: Offshore wind turbine reliability**
Prof. Peter Tavner, Durham University
- 16:00-16:15 *Tea & Coffee*
- 16:15-17:15 **Session 5: Influence of control on offshore turbine size and
weight**
Prof. Bill Leithead, University of Strathclyde
- 19:30 Group dinner in Manchester
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Friday, 25th March

- 09:00-09:20 *Tea & Coffee*
- 09:20-10:20 **Session 6: Performance evaluation of different offshore wind
farm networks**
Prof. Li Ran, Durham University
- 10:20-11:20 **Session 7: Connecting offshore wind farms to the onshore grid**
Dr Mike Barnes, University of Manchester
- 11:20-11:40 *Tea & Coffee*
- 11:40-12:40 **Session 8: Energy storage for offshore network control**
Dr Alan Ruddell, STFC
- 12:40-13:40 *Lunch*
- 13:40-17:00 **Visit to the Museum of Science and Industry**
- 17:00 *Depart*