

Wind Power R&D seminar – deep sea offshore wind**20-21 January 2011, Royal Garden Hotel, Kjøpmannsgata 73, Trondheim, NORWAY**

Thursday 20 January			
09.00	Registration & coffee		
	Opening session – offshore wind opportunities Chairs: John Olav Tande, SINTEF/NOWITECH and Kristin Guldbrandsen Frøysa, CMR/NORCOWE		
09.30	Opening and welcome by chair		
09.40	<i>Norway as a battery for Europe – prospects for supply of technology and services</i> Jon Dugstad, Regional Director INTPOW		
10.10	<i>Potential supplies from Norwegian industry to offshore wind developments</i> Asle Lygre, Arena NOW		
10.30	<i>New research initiatives for advancing development of deep sea offshore wind technology</i> John Olav Giæver Tande, Director NOWITECH / Senior Scientist SINTEF Energy Research		
11.00	<i>Norwegian met/ocean infrastructure for offshore wind energy research</i> Prof. Joachim Reuder, University of Bergen		
11.30	<i>Plans for Havsul offshore wind farm</i> Tore Engevik, Vestavind Offshore		
11.50	Summary and discussions by chair		
12.00	Lunch		
	Parallel sessions		
	A1) New turbine technology Chairs: Jasna B. Jakobsen, Uni. of Stavanger, Roy Stenbro, IFE	B1) Power system integration Chairs: Prof Tore Undeland, NTNU, Prof Kjetil Uhlen, NTNU	C1) Met-ocean conditions Chairs: Prof Jochen Reuder, Uni. of Bergen, Erik Berge, IFE
13.00	Introduction by Chair	Introduction by Chair	Introduction by Chair
13.10	<i>Development of the SWAY tower concept;</i> Michal Forland, SWAY	<i>Offshore Wind farm Grid Integration challenges, Doggerbank;</i> Sharifabadi Kamran, Statkraft	<i>Challenges in met-ocean research;</i> Prof D Heinemann, Uni. Oldenburg
13.30	<i>Loads analysis of selected floating designs;</i> Amy Robertson, NREL	<i>Offshore grid developments;</i> Kjartan Hauglum, Statnett	<i>Atmospheric profiling by lidar for wind energy research;</i> Torben Mikkelsen, DTU Risø
14.00	<i>Aluminium as a viable solution for offshore wind turbines;</i> Simon Jupp, Hydro Aluminium	<i>Characterization and modelling of the power output variability of wind farms;</i> Prof Hans Georg Beyer, Uni of Agder	<i>Lidar on ocean buoy;</i> Svein Erling Hansen, Fugro Oceanor
14.20	<i>HiPRWind – large floating turbines for intermediate water depths;</i> Jochen Bard, Fraunhofer IWES	<i>Supply of offshore wind energy to oil and gas installations;</i> Harald Svendsen, SINTEF	<i>The effects of ocean waves on offshore wind generators;</i> Alastair Jenkins, Uni Research
14.40	<i>Prospects of large floating vertical axis wind turbines;</i> Uwe Schmidt Paulsen, Risø DTU	<i>Balancing offshore wind;</i> Post Doc Steve Völler, NTNU	<i>Large Eddy Simulation;</i> Alla Saprionova, Uni Research
15.00	Refreshments		
	A2) New turbine technology Chairs: Conrad Carstensen, Uni. of Stavanger, BW Tveiten, SINTEF	B2) Grid connection Chairs: Prof Tore Undeland, NTNU, Prof K Uhlen, NTNU	C2) Met-ocean conditions Chairs: Prof Jochen Reuder, Uni. of Bergen, Erik Berge, IFE
15.30	Introduction by Chair	Introduction by Chair	Introduction by Chair
15.35	<i>Novel PM generators for large wind turbines;</i> Alexey Matveev, SmartMotor	<i>Challenges and design of offshore substations;</i> C. Olerud, Goodtech Projects & Services	<i>Wave extremes in the Northeast Atlantic;</i> Ole Johan Aarnes, met.no
15.55	<i>Novel methodology for fatigue design of wind turbine components of ductile cast iron;</i> Prof G Härkegård, NTNU	<i>Voltage control of wind power plants with DFIG;</i> Jorge Martínez García, Vestas	<i>The HyWind forecasting project;</i> Birgitte Furevik, met.no
16.15	<i>New power electronic schemes for large wind turbines;</i> Prof Marta Molinas, NTNU	<i>Wind farm measurements and model validation;</i> Prof Kjetil Uhlen, NTNU	<i>A comparison of sonic and lidar-sensed wind velocity;</i> PhD stud Fabio Pierella, NTNU
16.35	<i>Need for international standards on floating offshore wind turbines;</i> Johan Sandberg, DNV	<i>Transient analysis of transformers and cables for offshore wind connection;</i> Bjørn Gustavsen, SINTEF	<i>Design and operation of floating met-masts;</i> Israel Pinto Grijuela, Grupo APIAXXI
16.55	Closing by Chair	Closing by Chair	Closing by Chair
17.00	Poster Session with refreshments and presentation of PhD students on offshore wind		
19.00	Dinner		

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Parallel sessions			
	D) Operations & maintenance Chairs: Jørn Heggset, SINTEF, Hans Georg Beyer, Uni. of Agder	E) Installation & sub-structures Chairs: Prof Geir Moe, NTNU, Prof Ivar Langen, Uni of Stavanger	F) Wind farm modelling Chairs: Prof Trond Kvamsdal, NTNU, Lene Sælen, CMR Gexcon
09.00	Introduction by Chair	Introduction by Chair	Introduction by Chair
09.05	<i>The German wind turbine reliability database (WMEP);</i> Jochen Bard, Fraunhofer IWES	<i>Coupled analysis of floating wind turbines;</i> Harald Ormberg, MARINTEK	<i>Wakes between large wind farms;</i> Idar Barstad, Uni Research
09.25	<i>Framework for risk-based O&M planning for offshore wind turbines;</i> Prof John D Sørensen, Uni. of Aalborg	<i>The effects of breaking wave-induced currents;</i> PhD stud Sung-Jin Choi, Uni of Stavanger	<i>Wake models compared with measurements;</i> Jennifer van Rij, IFE
09.45	<i>Cooperation on O&M and LCC analysis with Vattenfall;</i> F. Besnard, Chalmers Uni. Technology	<i>Analysis of piled foundations by means of various soil models;</i> PhD stud Eric van Buren, NTNU	<i>Wind and wake modelling using CFD;</i> Jens A Melheim, CMR GexCon
10.05	<i>HSE challenges of installing and operating offshore wind farms;</i> Camilla Tveiten, SINTEF	<i>Installation of bottom supported wind turbines at Sheringham Shoal;</i> Jan Ingar Knutsen, Master Marine	<i>Interference between wind turbines aligned in the stream-wise direction;</i> Prof Per Åge Krogstad, NTNU
10.25	Closing by Chair	Closing by Chair	Closing by Chair
10.30	Refreshments		
Closing session – Success stories from Offshore Wind Research, Development and Deployment Chairs: John Olav Tande, SINTEF/NOWITECH and Kristin Guldbrandsen Frøysa, CMR/NORCOWE			
11.00	Introduction by Chair		
11.05	<i>Accelerating progress of offshore wind energy through targeted R&D</i> Phil de Villiers, Carbon Trust		
11.25	<i>From Scanwind to GE – becoming a global player anchored in Mid-Norway</i> Martin Degen, GE		
11.45	<i>HyWind operational experience, new developments on access and future plans</i> Sjur Bratland, Statoil		
12.05	<i>Offshore wind farm forecasting and energy production</i> Jostein Mælan, StormGeo		
12.25	<i>Using research experiences in marine technology for advancing offshore wind technology</i> Prof. Torgeir Moan, NTNU		
12.45	<i>Research gives results</i> Espen B Christophersen, Research Council of Norway		
13.05	Closing by Chair		
13.10	Lunch		