

Publikationsliste / List of publications

Fraunhofer IWES

Projektname: Netzintegration von Offshore-Windparks
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Fraunhofer IWES

J. Dobschinski, B. Lange, A. Wessel, L. von Bremen: "Visualizing and optimiz-ing the reliability of ensemble prediction systems", European Wind Energy Conference and Exhibition (EWEA) 2011, Brüssel, Belgien, 14.-17.03.2011

B. Lange, K. Rohrig, J. Dobschinski, A. Wessel, Y. Saint-Drenan, Martin Felder: "Prognosen der zeitlich-räumlichen Variabilität von Erneuerbaren", Transformationsforschung für ein nachhaltiges Energiesystem, Beiträge zur FVEE-Jahrestagung 2011, S. 93-101, 2011

J. Dobschinski, B. Lange, A. Wessel: "How to construct a reliable ensemble forecast ?", DEWEK 2010, 10th German Wind Energy Conference, Bremen, 17.-18.11.2010

J. Dobschinski, L. von Bremen, B. Lange, A. Wessel, S. Hagemann: "Calibration and combination of a regional multi model ensemble for predicting offshore wind speeds", European Wind Energy Conference and Exhibition (EWEC) 2010, Technical Track, Warschau, Polen, 20.-23.04.2010

ForWind

von Bremen, L., N. Busch-Saleck, D. Heinemann, »Estimate severe offshore Wind Power Fluctuations for better Grid Integration«, Oral presentation and paper in Proc. of biennial German Wind Energy Conference (DEWEK), Bremen, Germany, 17-18 November 2010 (2010)

von Bremen, L., N. Busch-Saleck, J. Tambke, «Offshore Wind Power Fluctua-tions in severely fluctuating Wind Conditions», Poster at the Meeting of the European Meteorological Society (EMS), Zurich, September 2010

von Bremen, L., N. Busch-Saleck, «Minimizing the risk in offshore wind power integration induced by severe wind power fluctuations», Oral presentation and paper in Proc. of the Conference of «The science of making Torque from Wind», Crete, Heraklion June 2010

von Bremen, L., N. Busch-Saleck, J. Tambke, D. Heinemann, «Relating observed Wind Fluctuations to large-scale Forecasts», Poster at the European Wind Energy Conference (EWEC), Warsaw, Poland, March 2010

WEPROG - Wetter und Wind Energie Prognose

Möhrlen, C., Pahlow, M., Jørgensen, J.U., 2011: Untersuchung verschiedener Handelsstrategien für Wind-und Solarenergie unter Berücksichtigung der EEG 2012 Novellierung, Zeitschrift f. Energiewirtschaft, Vol.36, No.1 pp 9-25.

Möhrlen, C., Jørgensen, J.U., 2011, Increasing the Competition on Reserve for Balancing Wind Power with the help of Ensemble Forecasts, 10th Int. Work-shop on Large-Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Farms, Aarhus.

Möhrlen, C., Jørgensen, J.U., 2010: Using Ensembles for Large-scale Forecast-ing of Wind Power in a European SuperGrid context, Proc. of German Wind Energy Conference DEWEK.

Möhrlen, C., Jørgensen, J.U., 2009: A new algorithm for Upscaling and Short-term forecasting of wind power using Ensemble forecasts, Proc. of the 8th In-ternational Workshop on Large- Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Farms, Bre-men, Germany, October.

Otto-von-Guericke Universität Magdeburg

H. Guo, K. Rudion, Z. A. Styczynski: «Integration of Large Offshore Wind Farms into the Power System»; 6th International CRIS conference on Critical Infrastructures, Hanoi, Vietnam, 16.11.2011.

H. Guo, K. Rudion, Z. A. Styczynski: «Stability Study of Offshore Wind Farm with Long HVAC Transmission System»; 7th PhD Seminar on Wind Energy in Europe, Delft, the Netherlands, 27-28.10. 2011.

H. Guo, K. Rudion, «Simulation of the Impact of Large Offshore Wind Farm on System Stability», Proceedings of the 6th European Academy of Wind Energy EAWE PhD Seminar, Tordheim, Norwegen, 30.09-01.10.2010.

H. Guo, K. Rudion, C. Heyde, Z. A. Styczynski, «Stability Studies of Offshore Wind Farms», Fifth Internation CRIS conference on Critical Infrastructures, Bei-jing, China, 20.-22.09.2010.

H. Guo, «Untersuchung der Blindleistungskompensation von Offshore-Windpark alpha ventus», Proceedings of » Dresdener Kreis 2010«, Magde-burg, 29.03.-30.03.2010.

H. Guo, Z. A. Styczynski, «Modeling and Simulation of Long Time Behaviour of alpha ventus Wind Farm and Coupling to WCMS», Proceedings of the 5th European Academy of Wind Energy EAWE PhD Seminar, Durham , England, 30.09-01.10.2009.

Universität Kassel

HEIER, S., DA COSTA, J.P., MESSOLL, K., VALOV, B.: »Grid Connected Systems: Interconnection, Transmission and Generation«. In: Wind Energy International 2011/2012, World Wind Energy Association, pp. 355-364, ISBN: 978-3-940683-02-1

MESSOLL, K., HEIER, S.: »HVAC Grid Connection of Large Offshore Wind Farms«. Deutsche Windenergie-Konferenz (DEWEK), Bremen, 17.-18. Nov. 2010

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Holttinen, H.; Orths, A.G.; Eriksen, P.B.; Hidalgo, J.; Estanqueiro, A.; Groome, F.; Coughlan, Y.; Neumann, H.; Lange, B.; Hulle, F.; Dudurych, I.; , "Currents of change," Power and Energy Magazine, IEEE , vol.9, no.6, pp.47-59, Nov.-Dec. 2011 doi: 10.1109/MPE.2011.942351 URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6049627&isnumber=6049615>

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Kiviluoma, Juha, O'Malley, M., Tuohy, A., Meibom, P., Milligan, M., Lange, B., Holttinen, H., Gibescu, M.. 2011. Impact of wind power on the unit commitment, operating reserves, and market design. 2011 IEEE Power and Energy General Meeting: The Electrification of Transportation and the Grid of the Future, Detroit, MI, 24 - 28 July 2011: IEEE. Proceedings of the IEEE Power and Energy Society General Meeting, Pp. Article number 6039621. ISBN 978-145771001-8 doi: 10.1109/PES.2011.6039621

Holttinen, H., Meibom, P., Orths, A., van Hulle, F., Lange, B., O'Malley, M., Pi-erik, J., Ummels, B., Tande, J.O., Estanqueiro, A., Matos, M., Gomez, E., Söder, L., Strbac, G., Shakoor, A., Ricardo, J., Smith, J. C., Milligan, M., Ela, E. «Design and operation of power systems with large amounts of wind power» Final report, IEA WIND Task 25, Phase one 2006-2008. Espoo, VTT. 200 p. + app. 29 p. VTT Tiedotteita - Research Notes 2493. Available at <http://www.vtt.fi/inf/pdf/tiedotteet/2009/T2493.pdf> (also available at: http://www.ieawind.org/task_25.html)

Ensslin, C., Milligan, M., Holttinen, Hannele, O'Malley, M., Keane, A.. 2008. Current methods to calculate capacity credit of wind power, IEA collaboration. Power and Energy Society General Meeting - Conversion and Delivery of Electrical Energy in the 21st

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<http://www.ieawind.org/AnnexXXV/Publications/W82.pdf> (also available at:
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Hannele Holttinen, Peter Meibom, Antje Orths, Bernhard Lange, Mark O'Malley, John Olav Tande, Ana Estanqueiro, Emilio Gomez, Lennart Söder, Goran Strbac, J Charles Smith and Frans van Hulle: Impacts of large amounts of wind power on design and operation of power systems, results of IEA collaboration Wind Energy Vol 14 (2)