



## RAVE meets DEWEK

15. November 2010

Several RAVE related presentations will be given at the 10th German Wind Energy Conference 17 - 18 November 2010 in Bremen, Germany. Themes are (further details see attached flyer or DEWEK programme, [www.dewek.de](http://www.dewek.de)):

RAVE Coordinator:



RAVE Supervisor:



Funded on the base of an act of the German Parliament by the



Bundesministerium  
für Umwelt, Naturschutz  
und Reaktorsicherheit

Further information on  
offshore wind energy:  
[www.bmu.de](http://www.bmu.de)  
[www.erneuerbare-energien.de](http://www.erneuerbare-energien.de)  
[www.alpha-ventus.de](http://www.alpha-ventus.de)  
[www.offshore-stiftung.de](http://www.offshore-stiftung.de)

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- RAVE - Joint Research Development and Testing at Alpha Ventus
- Final Results of the Joint Project "Development of LIDAR Wind Sensing for the German Offshore Test Site"
- Damage Identification at Offshore Wind Energy Converters Using the Multi-Parameter Eigenvalue Problem
- Further Development of a 5 MW Turbine towards a 6.15 MW Turbine – Experience After One Year of Onshore Operation
- Adaption of Turbulence Parameterization in Reynolds-averaged Wind Field Simulation Models to Offshore Conditions
- Influence of Vertical Wind Shear on IEC and Langevin Power Curves
- Statistical Load Estimation Using a Nacelle-Based Lidar System
- Validation of a Dynamic Meandering Model with Near Wake Lidar Measurements
- Integrated Simulation of the Repower 5 MW Offshore Wind Turbine With Jacket Support Structure Validated by Alpha Ventus Measurement Data
- Research at the First German Offshore Wind Park Alpha Ventus – RAVE Instrumentation and Sensor Data Processing of AV07
- Optimising Maintenance Data Management to Boost Turbine Efficiency
- Estimate Severe Offshore Wind Power Fluctuations for Better Grid Integration
- Using Ensembles for Large-scale Forecasting of Wind Power in a European Super-Grid Context

The RAVE research initiative is accompanying the construction and operation of the alpha ventus test site to attain a broad basis of experience and expertise for future offshore wind parks.

Several research projects are currently carried out. The main focus is on cost reduction, availability, technology improvement, environmental and ecological impacts of offshore wind energy utilization.

RAVE is funded by the Federal Ministry for the Environment, Nature Conservation and Reactor Safety (BMU) following a resolution by the German Federal Parliament. RAVE is co-ordinated by Fraunhofer IWES.