

Programme

Effects on the Marine Environment Caused by the Use of Offshore Wind Energy

Chaired by: **Dr. Frank Stubenrauch, Projektträger Jülich**

10:45 Avian Avoidance Behaviour and Collision Risk: Results from Post-Construction Monitoring of the Offshore Wind Farms Horns Rev and Nysted, Denmark
Toni Fox - National Environmental Research Institute

11:05 Collision Risk at Sea: Species Composition and Distribution of Flight Altitudes of Birds in Danish Offshore Wind Farms Horns Rev and Nysted
Jan Blew - BioConsult SH

11:20 Offshore Wind Farms – Disturbance or Attraction for Harbour Porpoises?
Ansgar Diederichs - BioConsult SH

11:35 Noise Emissions during Ramming of Piles
Dr. -Ing. Karl Heinz Elmer, University of Hannover

11:50 Effects of Noise Emissions on Marine Mammals
Klaus Lucke - Research and Technology Centre Western Coast

12:05 Benthological Processes in the Vicinity of Piles
Dr. Alexander Schröder - Alfred Wegener Institute for Polar and Marine Research

12:25 Discussion

12:50 Lunch Break

Technical Methods for the Investigation and Modelling to Identify Effects Caused by the Use of Offshore Wind Energy

Chaired by: **Christian Nath - German Lloyd - Wind**

14:00 Technical Developments for the Investigation of Bird Migration and Bird Collisions
Dr. Jan Kube - Institute for Applied Ecology Ltd.

14:15 Methods for the Investigation of Bird Migration
Reinhold Hill - Helgoland Institute for Bird Research 'Vogelwarte Helgoland'

14:30 Effects on Currents and Water Mass Transformation by Offshore Wind Energy
Prof. Dr. Hans Burchard - Baltic Sea Research Institute

14:55 Project IMKONOS – Development of Conditions for an Interdisciplinary Network of Marine Research Competence
Prof. Dr. Holmer Sordyl - Institute for Applied Ecology Ltd.

15:20 Discussion

15:40 Coffee Break

Panel Discussion

Chaired by: **Dir. Prof. Dr. Harry Lehmann – Chairman of the Advisory Council of the German Offshore Foundation**

16:00 Conclusions of Research Results for the Future Development of Offshore Wind Energy Use

17:30 Close of Conference



Conference Location:

Technical University of Berlin
Straße des 17. Juni 135
10623 Berlin
(U-Bahn: Ernst-Reuter-Platz; S-Bahn: Tiergarten)

Registration:

The number of participants is limited. Registration is therefore on a first come - first serve basis. Deadline for applications is January 26, 2007. Please use the enclosed fax form or download the application from the conference website: <http://www.tu-berlin.de/~lbp/offshoredays.html>

Participation Fee:

The participation fee is 115 Euros, which includes conference materials and the admittance to the evening reception on February 20th, 2007.

Organisation und Information:

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Cover Image:
Wind Turbine "Breitling" in Rostock Harbour
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2nd Scientific Conference

on the Use of Offshore Wind Energy
by the Federal Ministry
for the Environment

February 20-21, 2007, Berlin

Preliminary Programme



Federal Ministry for the
Environment, Nature
Conservation and
Nuclear Safety



Conference Announcement

2nd Scientific Conference on the Use of Offshore Wind Energy by the Federal Ministry for the Environment (BMU)


February 20 - 21, 2007, Berlin

The „2nd Scientific Conference on the Use of Offshore Wind Energy“, will present the most recent results of various research projects addressing the ecological parameters of offshore wind energy.

The goal of this international conference is it to provide an overview of recent developments in the ecologically sustainable use of offshore wind energy in Germany. Research on the natural conditions of marine ecosystems as they relate to wind energy use will be presented. The latest technological methods will be demonstrated to identify environmental impacts and new ideas will be presented on how to implement the use of offshore wind energy in an environmentally compatible manner.

Progress in the realization of the offshore test site in the North Sea (Borkum West) will be introduced along with focal points of research associated with the site. The conference will also present cross-border projects and developments in the use of offshore wind energy in neighbouring countries.

Presentation proposals and results of discussions may influence further research projects and potentially the development of new political frameworks for offshore wind energy use.



Benthos growth on Pile of the Fino 1 © A. Schröder - AWI-Bremerhaven

Programme

Tuesday, February 20, 2007

- 9:30 Welcoming Speech
Prof. Dr. Johann Köppel - Vice President of the Technical University of Berlin
- 9:45 Research on the Use of Offshore Wind Energy in Germany - Statement and Perspectives
Michael Müller - Parliamentary State Secretary of the Federal Ministry for the Environment

Research Programmes on Offshore Wind Energy Use: State of Affairs and Perspectives

Chaired by: Prof. Dr. Johann Köppel - Technical University of Berlin

- 10:30 The German Offshore Foundation and the Offshore Wind Energy Test Site
Jens Eckhoff - President of the German Offshore Foundation
- 10:50 Research and Development of the Offshore Wind Energy Test Site - Centre of Promotion by the Federal Ministry for the Environment
Ralf Christmann - Federal Ministry for the Environment
- 11:10 *Coffee Break*
- 11:30 Capacities of the Offshore Research Platforms FINO 1-3 in the Technical and Ecological Research on the Use of Offshore Wind Energy
Antje Finger - Federal Ministry for the Environment
- 11:50 Development and Research Activities on Wind Energy Use Initiated by the Federal Ministry for the Environment since 2001
Dr. Joachim Kutscher - Projektträger Jülich
- 12:10 Discussion
- 12:30 *Lunch Break*

International Research Programmes and Research Cooperation on the Use of Offshore Wind Energy

Chaired by: Joachim Nick Leptin - Federal Ministry for the Environment

- 13:50 Research Programme of the Swedish Government
Fredrik Dahlström - Swedish Energy Agency
- 14:10 Research Programme of the United Kingdom
Dr. John Hartley - Department for Trade and Industry, UK
- 14:30 Research Programme of the Danish Government; Presentation of German-Danish Research Cooperation
Steffen Nielsen - Danish Energy Authority
- 14:50 Discussion
- 15:10 *Coffee Break*

Latest Results of Marine Environment Site Surveys

Chaired by: Prof. Dr. Hartmut Vogtmann - President of the Federal Agency for Nature Conservation

- 15:30 Bird Migration in the North Sea
Dr. Ommo Hüppop - Helgoland Institute for Bird Research 'Vogelwarte Helgoland'
- 15:45 Bird Migration in the Baltic Sea
Dr. Jan Kube - Institute for Applied Ecology Ltd.
- 16:00 Distribution of Sea Birds and Resting Birds in the North and Baltic Seas
Dr. Stefan Garthe - Research and Technology Centre Western Coast
- 16:20 Latest Results in Stock and Habitat Use of Harbour Porpoises in the North and Baltic Seas
Ursula Verfuß - German Marine Museum Stralsund

- 16:40 Distribution of Harbour Seals in the German Bight
Prof. Dr. Dieter Adelung - IFM-Geomar - Leibnitz Institute for Marine Research, University of Kiel

- 17:00 Protected Areas in the German EEZ - Implementation of Research on the Stock Situation
Dr. Elsa Nickel - Federal Ministry for the Environment

- 17:20 Discussion

19:00 Conference Reception, TU-Berlin

Wednesday, February 21, 2007

Planning and Approval Procedures for Offshore Wind Farms in the German Exclusive Economic Zone (EEZ)

Chaired by: N.N.

- 9:00 News about the Approval Procedures for Offshore Wind Farms in the German EEZ
Christian Dahlke - Federal Maritime and Hydrographic Agency
- 9:20 Strategic Environmental Assessment for Offshore Wind Farms in the German EEZ
Prof. Dr. Thomas Schomerus - University of Lüneburg
- 9:40 Assessment of Effects on the Marine Environment in the Approval Procedures of Offshore Wind Farms in the German EEZ
Leena Morkel - Technical University of Berlin
- 10:00 Discussion
- 10:25 *Coffee Break*