

Information

Host

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU)

Location

Junges Hotel Hamburg
Kurt-Schumacher-Allee 14
20097 Hamburg
Tel.: +49 (0)40-41923 – 0
E-Mail: reception@jungeshotel.de

Arrival

By car from the North

Autobahn A7 to Stellingen, then B4 to Berliner Tor

By car from the South

Autobahn A1 to interchange Hamburg-Süd, then A255 direction "city centre" via Elbbrücken, B75 (Heidenkampsweg) direction "main station" to Kurt-Schumacher-Allee

By train

Hamburg main station, then taxi or 7 minutes walk

By plane

From Fuhlsbüttel Airport take either a taxi (about €20), or the train S1 direction "Ohlsdorf/Wedel" to the Berliner Tor Station (about 25 minutes ride, 5 minutes walk).

Registration

Participation to the event is free of charge, registration is required at:

Project Management Juelich (PtJ)
Forschungszentrum Jülich GmbH

Ms. Daniela Bizjak

Tel. +49 (0)2461 61-9015

Email: d.bizjak@fz-juelich.de

Mr. Tobias Petrovic

Tel. +49 (0)2461 61-3620

Email: t.petrovic@fz-juelich.de

<http://www.bmu.de>

<http://www.fz-juelich.de/ptj>

<http://www.windplatform.eu>

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Project Management Juelich
Forschungszentrum Jülich GmbH

52425 Jülich
Germany



Federal Ministry for the
Environment, Nature Conservation
and Nuclear Safety

PTJ
Projektträger Jülich
Forschungszentrum Jülich



2nd - 3rd June 2009, Hamburg

International Workshop Underwater Noise and Offshore Wind Farms

Initiated by the Member States Mirror Group
of the European Wind Energy Technology Platform

Hosted by the German Federal Ministry for the
Environment, Nature Conservation and Nuclear Safety



June 2nd 2009

- 10:00 Opening
Joachim Nick-Leptin, BMU (D)
Vice-Chair of the Mirror Group of TPWind
- 10:15 Introduction
Tobias Petrovic, Project Management Juelich (PtJ)
- 10:25 **Session 1**
Underwater Noise in the Consenting Process for Offshore Wind Farms - Similarities and differences in the EU
Chair: *Sonia Mendes, JNCC (UK)*
- 10:25 Underwater Noise in Licensing Procedures – the German Example
Dr. Nico Nolte, Federal Maritime and Hydrographic Agency (BSH) (D)
- 10:45 Underwater Noise in Licensing Procedures for Offshore Wind Farms
Sander de Jong, Ministry of Transport, Public Works and Watermanagement, Rijkswaterstaat North Sea (NL)
- 11:05 Underwater Noise and the Consenting Process
Phillip Bloor, Department of Energy & Climate Change (UK)
- 11:25 Underwater Noise in Licensing Procedures in Scandinavia
N.N. (Sweden or Denmark)
- 11:45 Discussion and Questions
- 12:15 Lunch
- 13:00 **Session 2**
Practical Experience with Offshore Installations: Occurring Noise Levels and Environmental Impact
Chair: *Dr. Joachim Kutscher (PtJ), Vice Chair of IEA Wind Energy Agreement*
- 13:00 Experience with the Installation of Offshore Wind Farms in Various European Countries
N.N. Dong Energy (DK)
- 13:20 Arklow, Gabbard & Butendiek - Installation of Monopiles in Different Countries But With the Same Marine Mammals
Ole Stobbe, Airtricity Germany (D)
- 13:40 Underwater Sound Emissions and Effects of the Pile Driving at Offshore Wind Farm Prinses Amalia (Q7)
Christ de Jong, TNO Science and Industry (NL)
- 14:00 Underwater Noise Emissions from Offshore Wind Turbine Construction and Species-related Noise Assessment Metrics
Dr. Klaus Betke, Institute for Applied and Technical Physics (itap) (D)
- 14:20 Underwater Noise and Gravity Based Foundations
N.N.
- 14:40 Discussion and Questions
- 15:20 Coffee break
- 15:50 **Session 3**
Noise Emissions, Mitigation Measures and Monitoring seen from a Nature Conservation Perspective
Chair: *N.N.*
- 15:50 Noise Pollution of the Marine Environment – a Growing Problem of Nature Conservation
Thomas Merck, Federal Agency for Nature Conservation (BfN) (D)
- 16:10 Minimising Disturbance to Cetaceans – the UK Approach
Sonia Mendes, Joint Nature Conservation Committee (JNCC) (UK)
- 16:30 Underwater Noise from Construction and Operation of Offshore Wind Farms – Estimation of Impact Zones
Dr. Jakob Tougaard, National Environmental Research Institute (NERI) (DK)
- 16:50 Monitoring the Responses of Harbour Porpoises to Offshore Pile Driving
Dr. Georg Nehls, BioConsult SH (D)
- 17:10 Offshore Pile Driving and Acoustic Mitigation Measures - Effects on Harbour Porpoises
Dr. Klaus Lucke, Research and Technology Center Westcoast (FTZ), University of Kiel (D)
- 17:30 Discussion and Questions
- 18:15 End of First Day
- 19:00 Dinner

June 3rd 2009

- 9:00 Opening
Filippo Gagliardi, TPWind Project Manager
- 9:20 **Session 4**
State of the Art: Low-noise Foundation Techniques, Noise Mitigation Measures, and Alternative Approaches
Chair: *Tobias Petrovic, Project Management Juelich*
- 9:20 Potential for Acoustic Deterrents to Mitigate the Impact on Marine Mammals of Underwater Noise
Dr. Jonathan Gordon (t.b.c.), Ecologic Ltd. (UK)
- 9:40 Underwater Pile Driving Noise Mitigations Concepts for Tripod/Jacket and Monopile Installations
Martin Ros, Menck GmbH (D)
- 10:00 Research in the Field of Hydrosound Reduction during the Construction of Offshore Wind Farms
Tanja Griebmann, Institute for Structural Analysis, Leibniz Universität Hannover (D)
- 10:20 Herrenknecht Vertical Shaft Machine – Offshore Foundations in Difficult Soil Conditions
Jens Wiegand, Herrenknecht AG (D)
- 10:40 Drilled Concrete Monopile
Edwin van de Brug, Ballast Nedam (NL)
- 11:00 Discussion and Questions
- 11:40 Coffee Break
- 12:10 **Final discussion**
Conclusions, Ideas for Joint Actions & Cooperations, and Outlook
Chair: *Susanna Widstrand, Swedish Energy Agency, Chair of the Mirror Group of TPWind*
- 12:40 Closing statements
Susanna Widstrand, Swedish Energy Agency, Chair of the Mirror Group of TPWind
Joachim Nick-Leptin, Federal Ministry for the Environment (BMU), Vice-Chair of the Mirror Group of TPWind
- 13:00 End of Workshop