



WINDFORCE 11

DIRECTION OFFSHORE

Conference Programme

7–9 June 2011, Bremerhaven



Bundesministerium
für Umwelt, Naturschutz
und Reaktorsicherheit

Federal Environment Minister Dr Norbert Röttgen
is the patron of the conference.

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WINDFORCE 12 DIRECTION OFFSHORE

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5 – 7 June 2012, Bremerhaven



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Conference Management

Wind Energy Agency Bremerhaven/Bremen – WAB

Steffen Schleicher, Offshore Project Manager

T +49 471 39177 14

steffen.schleicher@wab.net

WORDS OF WELCOME FROM DR NORBERT RÖTTGEN

Federal Minister for the Environment, Nature Conservation and Nuclear Safety



On 28 September 2010, the German government set out an energy concept that makes possible our goal of achieving a virtually CO₂ - free power supply by the year 2050. On 6 June, the Government will decide on a package of measures designed to further accelerate the expansion of renewable energies.

Wind from the sea will play an extremely important role in the energy mix of the future. It must be made clear, however, that the expansion of offshore wind energy up till now has not progressed as quickly as we would have liked, due not least to the fact that offshore wind, under the conditions that prevail in Germany's North- and Baltic Sea construction zones at least, involves the breaking of much new ground in technology. The necessary investment budgets are therefore difficult to calculate, leading to a certain reluctance on the part of the banks.

The various support arrangements of the Renewable Energy Act and elsewhere are helping the Government to reduce the risks involved. At the same time, industry is being asked to adhere to the needs of nature conservation when building wind farms out at sea and significant research and development efforts need to be made. The expansion of renewable energies is not an end in itself, rather it serves to bring a halt to climate change in order to protect man, nature and the environment. The measure of this is not just the amount of CO₂ that has been saved but also the environmental pollution arising from the building and operation of wind plants. In other words: climate protection should not be played off against nature conservation, neither should nature conservation be played off against climate protection.

The expansion of offshore wind energy is increasingly becoming an important economic factor. The number of those it employs is rising, investment in plants and production capacity is increasing and some regions are very much flourishing. And it is not only coastal states that are the winners: the vital capital equipment such as wind turbines, steel, concrete, cable and a whole lot more come from every part of our land. Everyone in Germany profits from the expansion of offshore wind energy: North, South, East and West.

International offshore wind energy conferences are important forums for the exchange of experiences and show us ways ahead for the future. That is why, for the Federal Environment Ministry, the Windforce 11 conference is not just a significant indicator for the mood of the industry, but also a stimulus for political action.

I would like to wish for everyone attending the conference discussions that are both stimulating and productive.

Dr Norbert Röttgen

Managing director, WAB

Building a German Offshore Wind Industry

I wish you a very warm welcome to Bremerhaven for the WINDFORCE11 conference. In recent years our conference has become a classic event, the place for the offshore wind industry to meet. Europe's offshore wind potential is enormous and offshore wind energy took a huge leap forward last year, with around three gigawatts of capacity now installed. Not long ago, Chancellor Angela Merkel officially opened Germany's first commercial offshore wind farm in the Baltic Sea, the Baltic 1 project. A new industry is emerging in Germany as the number of installed offshore turbines grows. The sector has attracted players who take active roles in all steps of the value chain, from power generation and maritime activity to ports and logistics. Our WAB network has grown alongside the industry and now boasts more than 300 members; indeed we have shaped the industry from the very start! WAB has rapidly expanded its network, opened up channels of communication among all stakeholders and enabled them to benefit from sharing information and experience.



The attractiveness of the offshore wind energy sector for investors today is still determined by the government's energy policies, and therefore the offshore industry expects the German government to set reliable and predictable framework conditions for expanding business.

The offshore wind industry is strong only if we stand together! We want the government to hear us speak with one voice. WAB announced in 2010 that it will show its presence in Berlin. We have always known that a strong voice can be used to great effect if all industrial stakeholders are equally committed to expanding wind power. Count us in on this!

I hope that everyone at the conference will have an enjoyable stay in Bremerhaven. I am looking forward to a very productive and successful event.

Ronny Meyer

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with us!**

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agentur



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We are shaping the future

ALSTOM

**Vice-President Central and Eastern Europe, Russia
Alstom Grid**

Alstom Grid once again is pleased to be a major sponsor of the WINDFORCE11 – DIRECTION OFFSHORE conference. If you are wondering why we say “once again”, it’s because we are using this opportunity to introduce you to Alstom Grid, the new sector of Alstom. Alstom Grid was formerly the transmission business of Areva, and we were one of last year’s major sponsors. Sponsoring the conference this year is our contribution towards business continuity.



Alstom Grid brings you more than 130 years of expertise in the development of electrical grids worldwide – always focusing on the best quality and excellent service for our customers. It designs and manufactures the electrical equipment for ultra-high voltage and high-voltage power transmission systems. We can proudly say that Alstom Grid in the past 10 years has manufactured more than 1,000 power transformers and over 40,000 high-voltage switchgear components at German production sites, and installed them around the globe. We are a leading supplier of products and systems in the onshore and offshore wind energy industries.

We also manufactured the electrotechnical equipment used on the first offshore substation at Germany’s Alpha Ventus wind farm, and it will be our job to manage the service of this platform for the next five years to come. We also connected Europe’s biggest onshore wind farm in Tariverde, Romania, to the public grid. The experience gained from these projects has put us in a leading position and enabled us to win the first orders in the world for ‘self-floating’ and ‘self-installing’ offshore substations for the Global Tech 1 and Baltic 2 wind farms. The concepts for these innovative ideas were first introduced here in Bremerhaven at this conference and will soon become reality.

Alstom in future will focus on energy efficiency and mitigating climate change. We will use the experience gained from our wind energy projects to contribute to environmentally sound and efficient energy transmission and generation. We are fully committed to supporting the WINDFORCE11 – DIRECTION OFFSHORE conference as a ‘new’ and ‘old’ major sponsor. The importance of this event grows every year and it shows us which way the wind is blowing.

May we all enjoy a pleasant and successful event!

Gerhard Seyrling

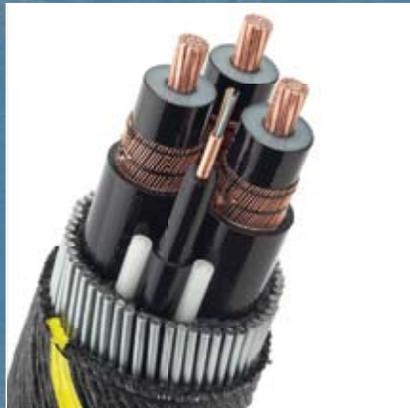
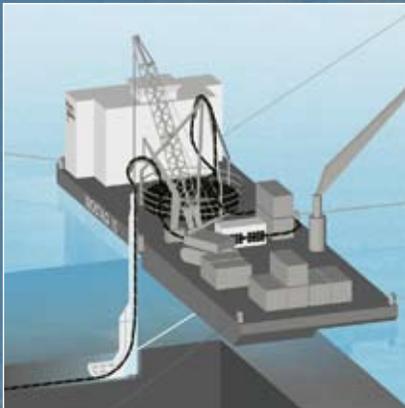
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Chairman, Board of Directors, NSW – Norddeutsche Seekabelwerke

**Offshore wind farms instead of reactors —
public opinion is giving us a strong tail wind**

Dramatic events at the Fukushima nuclear power plant in Japan have triggered an “earthquake” in Germany’s energy debate, and media shock waves can be felt every day on the radio and in the printed press. The public has never agreed more that Germany must phase out nuclear power as soon as possible in an economically reasonable way and accelerate the expansion of renewable energy — indeed, all levels of society, religious groups and political parties have joined this consensus! Offshore wind power will assume a key position in this regard.



Wind farms at sea have the potential of generating large amounts of electricity. And unlike on land, no one lives near them who might feel disturbed by noise and cast shadow. Now is the time for political decision-makers to create systems and set up cornerstones to enable the rapid development of offshore wind energy. Without the “yes” of licensing authorities and simplified procedures for installing the power transmission lines needed, all efforts will ultimately be in vain. The supplier industry is ready and waiting for the signal to be given!

Work on very recent projects has established NSW in the market as a system supplier and demonstrated our high level of specialised expertise. The Rödsand 2 project is a fine example of the coordinated interaction of cable production and cable laying; this and good coordination with the customer has allowed the project to be completed earlier than planned. The use of trenching technology to install cable from our NOSTAG 10 cable-laying barge has proven to be very successful. Here we have also benefited from business partnerships with the Hans Schramm & Sohn and the TAGU “Unterweser” Tiefbau companies.

NSW has also begun exporting cables. In this way, we are able to actively prevent supplier-side deficiency. We are particularly proud to have won the Baltic 2 project. Thanks to support from our parent company General Cable and from co-subsidiary Silec, we will be able to contribute our cumulative know-how to this undertaking. The turnkey supply of 120 kilometres of high-voltage sea cable and three 12-kilometre high-voltage underground cables, including the peripheral equipment needed, is an enormous challenge that we will meet with dedication. We are looking forward to working closely with 50Hertz Offshore and are confident that our high-end system will accelerate cable laying here as well. It will represent another important milestone in increasing the competence of NSW and General Cable — to the benefit of future customers and projects.

Here at the WINDFORCE11 — DIRECTION OFFSHORE conference, at our joint event, we hope that all participants will enjoy inspiring talks and benefit from new business contacts. In other words: May we all have plenty of energy for a successful future!

Rudolf Stahl

**Meet us in the
sponsors' lounge**

FOUR EXCURSIONS

WAB and regional business promotion agencies present the German offshore wind industry

TUESDAY, 7 JUNE 2011

9.00 a.m. – 5.00 p.m.

The event will kick off with four separate excursions across northern Germany to centres of the national offshore industry.

Depending on which excursion they choose, participants will visit the Norddeutsche Seekabelwerke cable manufacturing site, production sites for offshore wind turbines made by REpower Systems, Areva Wind and the BARD Group, a rotor blade production line, the rotor blade testing equipment at the Fraunhofer Institute for Wind Energy and Energy System Technology (designed to test blades up to 90 metres in length), the Deutsche WindGuard Engineering wind tunnel, an offshore safety training centre, foundation and tower builders, dockyards, or specially designed ports. One excursion will go by boat to a BARD test turbine on a tripile foundation.

The tours will be accompanied by representatives from regional business promotion agencies.

EXCURSION 1
BREMERHAVEN

in cooperation with:

 Bremerhavener Gesellschaft
 für Investitionsförderung
 und Stadtentwicklung mbH


Wind tunnel at Deutsche WindGuard Engineering

REpower 5M on a jacket foundation

Multibrid M5000 on a tripod foundation

REpower Systems production site

AREVA Wind production site

IWES – Fraunhofer Institute for Wind Energy and Energy System Technology

Falck Nutec offshore safety training centre

Simultaneous German-English translation
is available throughout the excursions.

EXCURSION 2**CUXHAVEN / STADE**

STRABAG offshore test foundation

CSC – Cuxhaven Steel Construction

Offshore terminal

AREVA Wind rotor blade production site / Stade

in cooperation with:

**EXCURSION 3****WESERMARSCH**

NSW subsea cables / Nordenham

Fassmer shipyard / Berne

J.Müller Breakbulk Terminal / Brake

Maritimes Trainings- und Sicherheitszentrum / Elsfleth

in cooperation with:

**EXCURSION 4****EMDEN**

BARD Emden Energy

BARD production site

BARD rotor blade production

Boat tour to BARD test facility / Hooksiel

SIAG Nordseewerke offshore foundation production site

in cooperation with:



Active displays will be presented outdoors by:



LIVE PRESENTATION OF UNDERWATER DIVING SERVICES

Offshore divers from the company Nordseetaucher will demonstrate underwater gas-shielded metal arc welding (MAG welding) using gasless cored wire at a depth of up to 30 metres. Divers until now had to carry out welding operations with the few electrodes suitable for underwater use; the show will demonstrate the initial achievements of a research project. A newly developed underwater cutting electrode will be used that can replace conventional underwater oxygen cutting lances. There are also plans to demonstrate high-pressure waterjet cutting up to 3000 bar, sand-blasting, and underwater anti-corrosion protection.

www.nordseetaucher.de



Premium Aerotec, a subsidiary of the Airbus aviation group, will show the possibilities for using carbon-fibre-reinforced polymer (CFRP) for rotor blades, bringing a truck to the conference with a rotor blade half-shell made of CFRP.

TYFUDEM

- Typical Fuselage Demonstrator Sideshell Left
- Airbus research project to gain first experiences in the construction and manufacturing of future CFRP aerospace structures
- Four-Shell construction like that of A350 today
- support in conception design and manufacturing by Premium AEROTEC production systems



www.premium-aerotec.com



HELICOPTER EC 135

HTM Helicopter Travel Munich and Eurocopter together will have an EC 135 helicopter on display directly in front of the conference venue.

www.helitruvel.de
www.eurocopter.com



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ELA containers are used for mobile office, residential, relaxation, sanitation and storage purposes, but also as kindergartens, classrooms, and spaces for senior citizens, youth and spare time activities, and for bank buildings too. The ELA facilities are installed in a very short time, and are generally ready for use on the same day. Four support points in Germany, and a total of nine rental centres across Europe guarantee rapid delivery and a short journey. Our own fleet of more than 50 vehicles ensures reliable delivery and installation.

The TED (televote) survey

HOW THE TED SURVEY WORKS

Your opinion counts!

The TED (televote) survey offers conference participants an opportunity to respond to topical questions concerning the wind energy industry. You will be given a transmitter for voting during the first and second days of the conference.

TED questions are integrated into the conference programme and will appear on a big screen. You can reply to the questions with any one of several given answers.

TED surveys will be conducted before the panel discussion on the evening of the first day of the conference (June 7th), and on the following morning (June 8th).

The results of the survey will appear immediately on the screen and provide valuable input for the panel discussion afterwards. At the same time it will give participants an idea of the variety of opinions in the industry on how to meet today's challenges.

You will also receive a copy of the results in a newsletter distributed on the third morning of the conference (June 9th).

BESCHREIBUNG TED-BEFragung

Ihre Meinung ist gefragt!

Im Rahmen der TED-Befragung können Sie auf aktuelle Fragen der Windenergiebranche reagieren. Zur Durchführung wird Ihnen ein Sender ausgehändigt, mit dem diese Abstimmungen am ersten und zweiten Konferenztag erfolgen.

Die TED-Fragen sind eingebettet in das Tagungsprogramm und werden durch den Vorsitzenden der Veranstaltung per Leinwand präsentiert. Auf die gestellten Fragen können Sie eine der vorgegebenen Antwortmöglichkeiten geben.

Die TED-Abstimmung findet am Abend des ersten Konferenztages (7. Juni) zur Einleitung der Podiumsdiskussion sowie am Morgen des zweiten Konferenztages (8. Juni) statt.

Die Ergebnisse der Abstimmungen werden unmittelbar im Anschluss per Leinwand präsentiert und bieten so wertvolle Impulse für die Diskussionen. Gleichzeitig erhalten Sie einen Eindruck vom Meinungsbild der Branche zu aktuellen Herausforderungen.

Die repräsentativen Ergebnisse erhalten Sie zusätzlich in Form eines Newsletters am Morgen des dritten Konferenztages (9. Juni).

QUESTIONS FROM THE AUDIENCE

Expert opinions are needed!

During workshop sessions, you will have the opportunity to ask speakers individual questions.

Please send your questions [Fragen] in an E-Mail to:

Fragen1@wab.net (Conference Room 1)
Fragen2@wab.net (Conference Room 2)
Fragen3@wab.net (Conference Room 3)

A banner in each room will display the email address you need. Staff from wind:research will collect your questions, make a selection if necessary, and direct these questions from the audience to the respective speaker.

Not only will you receive an expert's answer; these question and answer sessions will provide active input for discussion and add your contribution to the conference.

BESCHREIBUNG PUBLIKUMSFRAGEN

Expertenmeinung gefragt!

Während der einzelnen Themenblöcke bekommen Sie als Konferenzteilnehmer die Gelegenheit, Ihre eigenen Fragen an die Referenten zu richten.

Senden Sie dazu Ihre Fragen per E-Mail an

***Fragen1@wab.net** (Konferenzraum 1)
Fragen2@wab.net (Konferenzraum 2)
Fragen3@wab.net (Konferenzraum 3)*

In jedem Raum sind zusätzlich Banner mit der jeweiligen E-Mail-Adresse angebracht. Mitarbeiter von wind:research nehmen Ihre Fragen entgegen, treffen ggf. eine Auswahl und richten die Fragen aus dem Publikum direkt an die jeweiligen Referenten.

Damit erhalten Sie nicht nur eine Expertenmeinung auf Ihre persönliche Frage, sondern Sie können ebenso aktiv Impulse für die Diskussionen auf der Konferenz liefern und diese mitgestalten.

sponsored by



Conference Programme

7–9 June 2011 in Bremerhaven

TUESDAY, 7 JUNE 2011

7.30 – 9.00 a.m.

Registration for excursion

9.00 a.m. –
5.00 p.m.

**FOUR EXCURSIONS,
DETAILS SEE PAGE: 10**

5.00 p.m.

**CONFERENCE CENTER IN THE ATLANTIC HOTEL SAIL CITY
REGISTRATION OPENS**

6.00 p.m.

OPENING OF CONFERENCE

ROOM 1



Ronny Meyer, WAB

Ronny Meyer became managing director of the Wind Energy Agency Bremerhaven/ Bremen in August 2010. He combines a technical understanding of the industry with extensive knowledge of energy provision and the energy market. A physics graduate, he worked for the Boston Consulting Group from 2008 to 2010, the prestigious business consultancy in Hamburg and was responsible as an analyst for the renewable energy and utilities sector. From 2004 to 2008 he worked for Energy & Meteo Systems in Oldenburg, where as a project leader in the field of research and development he gained wide-ranging national and international experience of wind energy. He acquired his in-depth technical background during his studies at the University of Oldenburg.



Dr Torsten Bischoff, Head of Division in the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

Studied Political Science at the Technical University Braunschweig; worked with different tasks as head of Division for the State Chancellory of the Land of North Rhine-Westphalia, the Ministry for European Affairs North Rhine-Westphalia and the Office of the Federal President. Since 2010, Head of Division "Hydro Power, Wind Energy and Grid Integration of Renewable Energies" in the Federal Ministry for the Environment



Gerhard Seyrling, Alstom Grid

Gerhard Seyrling is responsible for Alstom Grid's business in Central and Eastern Europe and Russia. This includes the profit and loss responsibility of the grid business in the region, as well as the direct management of sales, solutions (turnkey projects) and service. With 23 years of experience at Alstom Grid, Seyrling began holding various positions in high-voltage switchgear and power transformer R&D teams. He then managed the high-voltage gas insulated switchgear product line for several years. The last three years, Seyrling was managing Alstom Grid's research and development, information systems and performance improvement, as well as Grid's marketing and strategy for the last year. During these years, Seyrling was member of Areva T&D's and Alstom Grid's executive committee.

Simultaneous German-English and English-German translation is available throughout the conference. Presentations will be held in English and German.

TUESDAY, 7 JUNE 2011**Thorsten Schwarz, Norddeutsche Seekabelwerke (NSW) General Cable Group**

Thorsten Schwarz started his professional career in the corporate marketing and business development departments of DaimlerChrysler Aerospace where he supported the global sales and business development teams as a senior researcher and knowledge management expert and was involved in the early activities of the tri-national merger of three legal entities leading to what is now called EADS. In 2000 he joined the RWE Solutions Group as head of marketing and sales. In this function he was responsible for the integration of the sales forces and the realisation of cross-selling achievements amongst the more than 100 legal entities of this 3.2 billion Euro operation, focusing on technical infrastructure services to clients in the industrial and utility sectors. In 2003 he moved on to take on a sales director role at NUKEM Technologies GmbH, a highly specialised service provider on the decommissioning of nuclear installations. In this role he successfully saw through the market entry into the highly competitive French and Spanish markets and expanded the existing market footprint in Southeast Asian markets. In 2009 Schwarz joined Norddeutsche Seekabelwerke as senior vice-president, sales and marketing. In 2010 he was appointed managing director.

FYI ZUM WE: GJ.THX*

*GUTE ARBEIT DANKEN

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Head of Renewable Energy Team
Cremon 3
20457 Hamburg
Telefon: +49 (0)40 37692-259
ralf.skowronnek@marsh.com

TUESDAY, 7 JUNE 2011

**7.30 –
8.30 p.m.**

PANEL DISCUSSION

**LOGISTICS, INFRASTRUCTURE, SHIPS –
WHERE ARE WE NOW AND WHERE DO WE NEED TO GO?**

Presenter: Andreas Neumann, head of the TV department and host of the buten un binnen regional news show at Radio Bremen TV



PANEL MEMBERS

Carsten Heymann, BELUGA HOCHTIEF Offshore

See page 30



Klaus Heitmann, Zentralverband der deutschen Seehafenbetriebe

Klaus Heitmann, a graduate in political economics, has been chief executive of the Central Association of German Seaport Operators since 1996 and looks after the interests of businesses engaged in the handling of cargo in German seaports, in particular with reference to the German government and the European Commission. From 2005 to 2007 he was vice-president of the Federation of European Private Port Operators (FEPORT), the umbrella association of the European port industry.



Prof. Martin Skiba, RWE Innogy

Martin Skiba held senior positions with Shell Solar in Hamburg and Amsterdam from 1999 to 2001. In 2002 he joined REpower Systems AG for the development of the REpower 5M multi-megawatt wind turbine. From 2005 to 2008 he held the position of authorised officer and was in charge of the offshore division. From 2007 to 2008 he was also managing director of REpower Benelux. Since August 2008 he has held the position of director of Wind Energy Offshore with RWE Innogy GmbH and since 2009 he has also been managing director of subsidiaries and partnerships in the UK, the Netherlands, Belgium and Germany. In August 2009 he was made an honorary professor of the University of Hanover.



Oliver Heinecke, All 4 Offshore

Oliver Heinecke, as managing director, looks after all aspects of offshore work at All 4 Offshore, including activities in ports, sea transportation and maritime logistics for the offshore industry. Since 2001 he has been responsible for the construction of different types of wind turbines at various locations, working with well-established businesses such as Bonus, Reetec GmbH, REpower Systems AG and EnBW.



TUESDAY, 7 JUNE 2011



Norbert Giese, REpower Systems

In 1988/89 Norbert Giese co-founded Germany's first wind cooperative. From 1989 he has held various positions with Siemens Wind Power (formerly AN Windenergie): sales (1989), shareholder (1994), MD and shareholder (1999), MD only (2005 to 2007, takeover of Siemens), consultant (2007 to 2008), interim manager at REpower Systems, heading the offshore business (2008); senior vice-president of the offshore business unit (2009); vice-president of the association board and chairman of the wind turbine manufacturers' group in VDMA [German industrial association].



Ronny Meyer, WAB

See page 16

8.30 p.m.

Champagne reception – sponsored by

VATTENFALL



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Siemens Wind Power



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WEDNESDAY, 8 JUNE 2011

8.00 a.m.

**9.30 a.m. –
1.00 p.m.**



REGISTRATION

SESSION A

ROOM 2

**SERVICE AND MAINTENANCE, EXPERIENCE
GAINED, AND PROBLEMS TO BE SOLVED**

A

Chair: Jan Rispens, Erneuerbare-Energien-Hamburg GmbH

Managing Director, Erneuerbare Energien Hamburg Clusteragentur GmbH (EEHH) Engineer, studied electrical engineering at Enschede Technical University, Netherlands; starting in 1993, campaign leader at Greenpeace Germany in Hamburg, focusing on climate and energy policy issues; from 2002 till 2009 managing director of WAB; since 2011 managing director of EEHH.



01 | Report on experience after more than one year of operation with the Swath@A&R tender, EMS Maritime Offshore, Captain Knut Gerdes

Knut Gerdes is the managing director of EMS Maritime Offshore GmbH and is also the marine superintendent of the ferry company Aktien-Gesellschaft "EMS". The company performs various offshore services, e. g., crew transfer, guard duties and supervision ... He is also the managing director of the new offshore service company WINDEA Offshore GmbH & Co. KG based in Hamburg. This new joint company will combine years of experience in logistics, shipping, construction, maintenance, repair, coordination and the planning and financing of vessels for offshore wind farm operation.



02 | Flexible service logistics – field report from the alpha ventus project, Norden-Frisia, Armin Ortmann

Armin Ortmann held various senior positions with Sparkasse Norden from 2000 to 2005 following his business management studies. Since 2005 he has been working for AG Reederei Norden-Frisia, first as executive assistant and from October 2007 as authorised officer. He is also the managing director of the following companies: Frisia Luftverkehr GmbH, FRI KING Offshore GmbH, OWT GmbH, Leer, Frisia Offshore GmbH, Frisia Offshore Crewing, Frisia Offshore Consulting, and Frisia Offshore Technik.



03 | Service concepts – sensitivity analyses using simulation models, Deutsche WindGuard Offshore, Niels Erdmann

Nils Erdmann completed his studies in mechanical engineering in 1995 with a dissertation with DEWI. From 1996 to 2010 he served as a project engineer with Prokon Nord Energiesysteme, being responsible for all sectors of wind energy, including that of authorised officer. He is managing director of the subsidiaries Multibrid GmbH, PN Rotor GmbH and Offshore Wind Technologie GmbH. Since 1 July 2010 he has been managing director of Deutsche WindGuard Offshore GmbH.

11.00 – 11.30 a.m.

Coffee Break – sponsored by  **J. MÜLLER**

WEDNESDAY, 8 JUNE 2011



04 | Service and maintenance for large, remote offshore wind farms – strategies, access plans, costs and challenges, KEMA Consulting, Jens Gößwein

Jens Gößwein has been senior consultant for the power generation and renewables sector at KEMA Consulting GmbH since 1 July 2010 and draws on some fourteen years' professional experience, ten of which are in onshore and offshore wind energy. As a result of his work with KEMA, as well as with a German manufacturer of wind turbines, he has extensive experience of the offshore wind industry and operation and maintenance.



05 | OffshoreWind InWater Service® – training personnel to work in the underwater environment of offshore wind turbines, NORDSEETAUCHER, Claus Mayer

Claus Mayer has over 35 years' experience with offshore, inshore, nuclear, tunnel and research diving projects. These include drill rig installation, production platform services, SBM installation, pipeline inspection and maintenance, SBM pipeline wet welding, salvage operations, offshore wind farm installation, deep sea trenching, rig abandonment, saturation diving down to 600 metres, ADS diving and ROV services, hyperbaric tunnel construction and diving in compressed air and mixed gas, and repair and maintenance work under water in nuclear power plants.



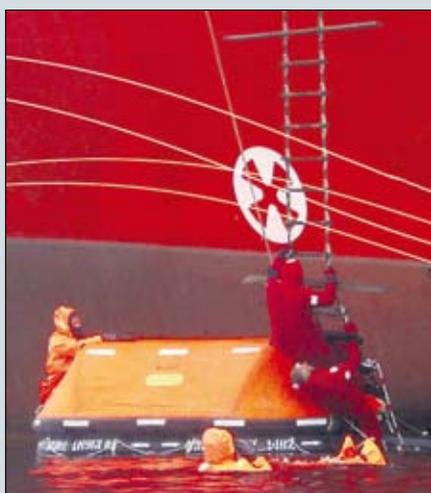
06 | Safety Systems go Offshore – A Challenge for Unmanned Operated Wind Farms, FUNA Global Systems, Thomas Blum

Thomas Blum is a mechanical and electronic engineer with almost 20 years of experience in Mechatronics. He holds a PHD in Mechanical Engineering from Keio University, Tokyo. As a research fellow at UC-Berkeley he developed condition monitoring systems for machine tools. As a managing director for FUNA Global Safety System he promotes different safety solutions for the wind energy market. His recent work includes the development of a comprehensive safety system for the offshore wind farms in the North Sea.

1.00 – 2.30 p.m.

Lunch Break –

Catering tent at quay Neuer Hafen – sponsored by



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WEDNESDAY, 8 JUNE 2011

**9.30 a.m. –
1.00 p.m.**

SESSION B

ROOM 3

FROM THEORY TO REALITY – EUROPEAN AND GERMAN OFFSHORE WIND ENERGY PROJECTS

B



Chair: Dr. Ursula Prall, Kuhbier Rechtsanwälte

Ursula Prall is a lawyer and partner with Kuhbier Rechtsanwälte and managing director of Offshore Forum Windenergie, an association of most German project developers of offshore wind farms. Since 2004, her main working area is the promotion of offshore wind energy in Germany, concerning both legal and political aspects.



07 | Bard Offshore 1, BARD Holding, Stephan Bormann

Having completed his studies in business administration in Hamburg in 1992, Stephan Bormann began his career in the branded products sector. In 1998 he was awarded a doctorate in intercultural marketing from the University of Prague. In December 2007 he became director of marketing and public relations at BARD Engineering in Emden. In January 2009 his role was extended to cover sales for the whole group. He took over as deputy managing director of BARD Holding GmbH in January 2010 and has been authorised officer since October 2010 at BARD Engineering GmbH in Emden.



08 | Riffgat – an offshore wind farm in the 12-mile zone, Offshore-Windpark RIFFGAT, Wilfried Hube

Head of group installing offshore project; general manager of “alpha ventus” project; since 1989, active in various divisions of EWE; managing director of EWE since offshore test field project began.



09 | DanTysk and UK Round III. On the way to industrialisation?

Vattenfall Europe Windkraft, Georg Friedrichs

Georg Friedrichs studied law at the universities of Kiel, Strasbourg and Amsterdam. Since 2001 he has held various senior positions for Vattenfall Europe AG and since early 2011 he has been head of the business unit for offshore wind projects (Vattenfall AB, renewables division).



10 | From theory to practice - North Sea wind forms pick up speed

Windreich Döring, Walter Döring

Walter Döring, deputy Chairman of the board studied History and English Studies and gained his Dr. phil. at the University of Tübingen. While still a grammar school teacher, he began his successful political career in 1981 as chairman of the district FDP/DVP association. Among other posts, Dr. Döring was a member of the regional parliament from 1988 to 2006 and acting prime minister and Minister for Economic Affairs of Baden-Württemberg from 1996 to 2004. From the mid-1990s until 2004 he also held several managerial positions in commerce.

1.00 – 2.30 p.m.

Coffee Break – sponsored by



WEDNESDAY, 8 JUNE 2011

11a | Central Lifting Platform Baltic2, tkb-Technologiekontor Bremerhaven, Falk Lüddecke

Falk Lüddecke studied civil engineering, with a focus on constructional civil engineering, at the TU Dresden from 1997 to 2002. From 2002 to 2005, he did his doctorate at the BAM Federal Institute for Materials Research and Testing. In 2005, he worked on a research project on the optimisation of cast joints for offshore wind energy facilities. From 2006 to 2007 he worked at K LW Ingenieure where he was responsible for reviewing static calculations. In 2009 he became head of the static and construction department and authorised officer at Technologiekontor in Bremerhaven.


11b | Central Lifting Platform Baltic2, Alstom Grid, Sven Höpfner

Sven Höpfner studied electrical engineering at the University for Applied Sciences for Technology, Industry and Culture (HTWK) in Leipzig from 1996 to 2001, where he specialised in electrical energy technology. He completed his graduate studies in electrical engineering and information technology at the TU Dresden from 2001 to 2002. From 2002 to 2007, he worked as a research assistant at the Institute of Electrical Power Systems and High-Voltage Engineering, TU Dresden. In 2007, he took up the position of design engineer with Areva T&D, which is now Alstom's transmission business – Alstom Grid. His primary area of work is wind power transmission and distribution.

Co author: WeserWind Offshore Construction Georgsmarienhütte, René Surma


12 | Ormonde – experience from the first industrial-scale new generation offshore turbine project, REpower Systems, Rainer Mohr

Rainer Mohr, vice-president, Sales Offshore Wind, joined REpower Systems at the beginning of 2009. Mohr is responsible for the sales and marketing of multi-megawatt offshore turbines and related services at REpower. He has worked with various international clients throughout his career in the offshore wind and oil and gas industries. He holds a Master's degree in mechanical engineering from Technical University Braunschweig and a PhD in material science.


13 | London Array – experiences from the construction of the world's biggest offshore wind farm, Aarsleff Bilfinger Berger Joint Venture (ABJV), Moritz Horn

Moritz Horn is head of the offshore division of Bilfinger Berger Ingenieurbau and director of Aarsleff Bilfinger Berger Joint Venture (ABJV). With 630 offshore foundations, ABJV is Europe's market leader. Currently, ABJV is installing 177 foundations for London Array and in 2012 another 80 will be installed for DanTysk. In 2009 he was technical director for Butendiek and, prior to this, project leader for large-scale engineering projects.


14 | The Thanet Project – a review of a successfully managed project and the lessons learnt, GL Garrad Hassan, Ian Bonnon, Great Britain

Ian Bonnon has over 30 years experience in the renewables, oil and gas, marine and sub sea cable industries. The last 11 years have been mainly focused on offshore wind farm developments. Bonnon is senior vice-president, head of Offshore Wind in GL Garrad Hassan following the merger of Germanischer Lloyd, Garrad Hassan and Noble Denton. He is responsible for all offshore renewables projects and global business development initiatives. Bonnon previously led Noble Denton's Southern Europe operations before setting up a renewable business line by transferring the considerable skills within the company from the oil and gas sector.

1.00 – 2.30 p.m.

Lunch Break –

 Catering tent at quay Neuer Hafen – sponsored by  **J. MÜLLER**

WEDNESDAY, 8 JUNE 2011

9.30 a.m. –
1.00 p.m.

SESSION C

ROOM 1

BUILDING A GERMAN OFFSHORE WIND INDUSTRY

C



Chair: Ronny Meyer, WAB

See page 16



15 | Financial challenges in expanding the offshore wind industry,

REpower Systems, Norbert Giese

See page 19



16 | Financing the Borkum West II offshore wind farm – project financing and multicontracting, technical developments and their impact on investments, and the cost effectiveness of offshore wind farms under the 2009 Renewable Energy Act, Trianel Windkraftwerk Borkum, Klaus Horstick

Project development consultant at Trianel GmbH since 2008. In 2009 he became the company's managing director and is now jointly responsible for the Trianel wind energy plant Borkum GmbH & Co. KG. Previous positions include work as a technical consultant for Buderus Heiztechnik GmbH, project development management of decentralised generation of energy at Erdgas Energie Systeme GmbH and marketing director at ABB New Ventures GmbH where he was responsible for renewable energy.



17 | EU harmonisation of remuneration, grid expansion and licensing procedures – driving force or obstacle for the development of offshore wind energy? wpd offshore solutions, Achim Berge

Since 2001, responsible for wpd's offshore activities; involved in start-ups of offshore offices in Sweden, Finland, UK, France and Italy, as well as five licensed and sold projects, and the current pipeline of 9,000 MW; holds Swedish and German law degrees.



18 | Blade Manufacturing on steel toolings optimised process, optimised component part, Premium AEROTEC, Dirk Schumacher

Dirk Schumacher joined Deutsche Airbus in 1993 and worked in several leading positions. In 2005 he moved to Nordenham where he took over the central services department for the plant. In 2009 the Airbus plants in Varel and Nordenham plus the EADS military plant in Augsburg were transferred to Premium AEROTEC as Tier-1/risk-sharing suppliers for Airbus. In October 2009 Schumacher took a role within the Premium AEROTEC restructuring team. Since January 2011 he has been the head of production systems at Varel. He has an industrial engineering degree, which he obtained in dual studies.

11.00 – 11.30 a.m. **Coffee Break** – sponsored by  **J. MÜLLER**



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19 | Building a german offshore wind industry – status, opportunities, and challenges ahead, BARD Holding, Klaus Gründel

Klaus Gründel has been head of corporate finance activities at the BARD Group, with a particular focus on company and offshore wind project financing. He has international management experience in mergers and acquisitions, corporate finance, capital market financing, strategic business development and investor relations, acquired with globally active businesses such as Deutsche Bank, Siemens, General Motors and INVISTA, as well as medium-sized high-tech companies such as Intershop Communications and AIXTRON.



20 | Industrialisation of the process chain, TMG Technologie Management Gruppe Industrial Management Consultants, Manfred Auch

Manfred Auch is manager of the wind power industry division of the TMG Technologie Management Gruppe. His role covers the following areas: process optimisation in production, engineering, logistics and the supply chain. At Müller-Weingarten AG he was head of its Esslingen site (for die-casting machines and hydraulic presses). He also headed the business operations division (mechanical and plant engineering) at Roland Berger & Partner’s offices in Stuttgart and Berlin.



21 | Risk mitigation measures for steel supplies in offshore wind projects – a steel manufacturer’s view, Ilsenburger Grobblech, Oliver Laubner

Oliver Laubner is sales director for Ilsenburger Grobblech GmbH, a division of Salzgitter AG. Before joining Salzgitter, Laubner was responsible for the European and Middle Eastern business of a consulting company in California. He has some 15 years of experience in engineering, construction and operations in the international onshore and offshore oil and gas industries. Laubner holds a degree in mechanical engineering from Braunschweig University in Germany and an MBA from Bradford in the UK.

1.00 – 2.30 p.m.

Lunch Break –

Catering tent at quay Neuer Hafen – sponsored by  **J. MÜLLER**

2.25 p.m.

BOARDING AT “OCEANA”, WESER QUAY

2.30 – 3.30 p.m.

SESSION D
BOAT OUTING ON THE WESER RIVER



3.30 – 4.00 p.m.

Coffee Break at the WeserWind quay, Fischereihafen Bremerhaven



The WAB Wind Energy Agency is the leading business network for the wind energy industry in Germany's northwest region and is the national point of contact for the offshore wind energy sector in Germany. The association counts more than 300 businesses and institutes among its members, who are active in all areas of the wind energy and maritime industries and in research.

WAB's goals are to bring its members together and strengthen the network, to expand wind energy at sea and on land, to develop the offshore wind industry in Germany, and to advance repowering in the northwest region.

WAB assists its members in finding the right business partners and offers a variety of services and activities with this in mind. WAB is present at international trade fairs, holds expert seminars, commissions studies, conducts market analyses, carries out extensive lobby and public relations work, initiates and sees through research and educational projects, and sponsors study trips. WAB each year organises Germany's largest international offshore conference, the WINDFORCE – DIRECTION OFFSHORE event. It also regularly hosts network get-togethers and receptions for international delegations, and arranges tours of production facilities.

WAB also takes up the political challenges facing the wind energy industry, supporting activities that bring forward public debate on relevant issues at local, state and national levels of policy-making.

*WAB is financially supported by
the German State of Bremen.*



WEDNESDAY, 8 JUNE 2011

**4.00 –
6.00 p.m.**

SESSION E

**LIVE PRESENTATIONS AT THE WESERWIND QUAY,
FISCHEREIHAFEN BREMERHAVEN**

sponsored by:



E



Chair: Ronny Meyer, WAB

See page 16



LIVE PRESENTATION 1

Starting the serial production of tripod foundations

WeserWind Offshore Construction Georgsmarienhütte, Sigurd Weise

Sigurd Weise followed his construction technology studies at Rostock University from 1987 to 1992 with six years of experience (1992-1998) as a researcher at the Bremen Institut für Angewandte Strahltechnik, where he received his doctorate. From 1998 to 2009 he built up and headed a tailored blank works in Bremen. Since 2010 he has been head of research and development at WeserWind.



LIVE PRESENTATION 2

AREVA Wind, Michael Munder-Oschimek

See page 34

LIVE PRESENTATION 3 AND DISCUSSION

Intelligent load-handling equipment for offshore purposes

With a film on the 600-ton crossbeam test stand

SpanSet-secutex/AXZION GKS, Boris Franke
REpower Systems, Norbert Giese

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WEDNESDAY, 8 JUNE 2011



LIVE PRESENTATION 4

momac Offshore Access System MOTS, momac, Stefan Leske

Stefan Leske studied mechanical engineering and began his professional life as a trainee at Babcock (nuclear power technology) from 1991 to 1993. He was assistant to the director of Clyde-Bergemann (boiler cleaning plants) from 1993 to 1994, and continued from 1994 to 1997 as head of project handling abroad. Since 1997 he has been a partner in the executive management of momac (special purpose machinery manufacturing and maintenance of machinery and plants).



LIVE PRESENTATION 5

Film with commentary, EWE, Claus Burkhardt

Claus Burkhardt (48) is a qualified scientist. He has a PhD in chemical engineering and began work in 1994 initially in the field of environmental technology, where he was responsible for planning and developing drinking water purification and sewage treatment plants. In 2000 he moved to the food industry and took over the business and works management of several food and chemical plants. In 2008, Burkhardt joined EWE, taking on responsibility for operations in the emerging offshore wind industry. Since the end of 2010 he has been responsible at EWE for operations with regard to renewable energy power plants. He is also the managing director of DOTI and the Riffgat wind farm project.



LIVE PRESENTATION 6

Film with commentary, Eurocopter, Denis Bernitz

Dennis Bernitz studied international sales and procurement engineering at the University for Applied Sciences in Kiel. He joined Eurocopter in 2006 and worked in the commercial directorate of sales as a sales manager on several civil and governmental key accounts. Since 2009 he is in charge of the new market segment offshore wind.

6.00 – 11.00 p.m.

MARITIME WIND DINNER

on the production hall of WeserWind GmbH
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Entrance: Labradorstraße *see page 44*



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THURSDAY, 9 JUNE 2011

8.00 a.m.

**9.30 a.m. –
1.00 p.m.**



REGISTRATION

SESSION F

ROOM 2

LOGISTICS

Chair: Roger Heidmann, Logistik Service Agentur (LSA), Germany

Owner of LSA; skilled tallyman and graduate industrial engineer; active in logistics since 1981; 15 years of experience in planning and operations management of harbour and logistics activities for logistical service providers such as Kühne & Nagel and Bremer Lagerhaus-Gesellschaft (BLG).



22 | Logistical challenges and requisites for installing offshore wind farms in Europe – vessels, ports and port markets, wind:research, Christian Meyer

Christian Meyer is division manager of wind:research at its Bremerhaven site. Since April 2008 he has been working for trend:research, where he is in charge of the compilation of multi-client studies and single-client projects in the wind energy industry. Aspects of offshore wind energy that have been analysed include market considerations about special ships for offshore wind energy, operation and maintenance and CMS.



23 | Next generation jack-up vessels for efficient heavy-lift offshore operations, BELUGA HOCHTIEF Offshore, Carsten Heymann

Carsten Heymann has been developing the new venture BELUGA HOCHTIEF Offshore GmbH & Co. KG since 2008. Heymann has a passion for the construction business; in 1997 he started his career at HOCHTIEF carrying out a variety of construction projects in Europe. Between 2002 and 2006 he gained management experience and training on international strategic projects within HOCHTIEF Corporate Development. Since 2007 he has been engaged in developing the new offshore wind business scheme of HOCHTIEF Solutions AG. He holds a degree in civil engineering and in business administration.



24 | Offshore logistics and offshore installation – it's the details that count Kapitän Möller & Partner, Jürgen Mackeprang

Jürgen Mackeprang was transport engineer with Bugsier from 1994 to 2000, working on break bulk projects weighing up to 1,000 tons. From 2000 to 2002 he was programme manager at CargoLifter, and between 2002 and 2004 worked for Multibrid/Pfleiderer. From 2004 to 2005, he was managing director at Muehlhan Equipment Services, responsible for the technical fleet and development. Since 2005 he has been a marine surveyor for marine warranty surveys with Möller & Partner.



25a | Comfort at sea – solutions offshore,

Blue Water Shipping A/S, Jakob Kjærgaard, Denmark

Jakob Kjærgaard has seven years' experience in offshore oil and gas, port set-up and requirements and especially offshore wind, where he has been involved in repair work at Horns Rev I, the construction of Horns Rev II, Rødsand II and Sprogø, including the planning of port set-up and the management of port activities on behalf of owners, operators and other parties involved. At Blue Water Shipping he is responsible for marketing and the development of port services and activities such as agent services, stevedoring and overseeing base facilities and, with regard to comfort at sea, has overall marketing and sales responsibility.

F

THURSDAY, 9 JUNE 2011



25b | Comfort at sea – solutions offshore

Blue Water Shipping A/S, Søren Stougaard, Denmark

Søren Stougaard gained a degree in international business in 1976 and was educated as a shipping trainee in 1978. In 1986 he gained his diploma as an authorised ship broker and he has been employed at Blue Water Shipping A/S since 1984. He has vast experience of general shipping and is currently general manager with responsibility for offshore and port activities.

11.00 – 11.30 a.m.

Coffee Break – sponsored by  **J. MÜLLER**



26a | Individual questions on construction and charter contracts for installation and service ships – the view from Britain and Germany

Lebuhn & Puchta, Johannes Trost

Johannes Trost has specialised in maritime and shipping matters for over 15 years and is a partner in the Hamburg law firm Lebuhn & Puchta. His core practice is related to highly technical and nautical matters. He leads the offshore wind energy section at LEBUHN & PUCHTA, with special emphasis on building contracts and charter parties for offshore vessels, legal risk analysis and product and environmental liability issues.



26b | Individual questions on construction and charter contracts for installation and service ships – the view from Britain and Germany

Lebuhn & Puchta, Edward Maguin, Great Britain

Edward Maguin is an English solicitor and partner with the Hamburg based law firm Lebuhn & Puchta. He specialises in building contracts, ship sale and purchase contracts, ship finance and registration as well as charter party work. Being a fully qualified English solicitor with maritime working experience in London, Paris and Hamburg, he is one of the few experts available in Germany who can also offer advice on English law. He is also a member of the Paris Bar de Advocats.



27 | Effectiveness of helicopters in offshore wind operations

Windpark Heliflight Consulting, Steffen Bechtel

Steffen Bechtel has more than 18 years' experience in offshore helicopter operations, including work on the emergency naval rescue helicopter "Sea King", North Sea crew transfer and on the first offshore wind farm Horns Rev (DK). In 2007 he founded Windpark Heliflight Consulting and since then has supported offshore wind farm operators across Europe in all matters relating to flight operations. He is a recognised authority on offshore flight operations and helipads for the Association of German Specialists and Assessors (BDSF e.V) and currently works as flight commander on a rescue helicopter.

1.00 – 2.30 p.m.

Lunch Break –

Catering tent at quay Neuer Hafen – sponsored by  **J. MÜLLER**

THURSDAY, 9 JUNE 2011

**9.30 a.m. –
1.00 p.m.**

SESSION G

ROOM 3

OFFSHORE OIL AND GAS MEETS OFFSHORE WIND

G



Chair: Peter Blach, Offshore Centre Denmark

Peter Blach, offshore center danmark (ocd), denmark From 1985-1998, vice-president, LICENERGY A/S; from 1998-2001, vice-president, ABB; from 2001-2003, managing director, Schneider Electric, since 2003, director, Offshore Center Danmark in Esbjerg, knowledge centre for oil, gas and offshore wind turbines



28 | Offshore wind: niche market or new opportunity?

ODS-Petrodata, Catherine Mckay, Great Britain

Catherine Mckay joined ODS-Petrodata as a renewables reporter in 2009, with responsibility for providing in-depth editorial coverage of the global offshore wind market. As well as contributing to ODS-Petrodata's renewables newswire service, Mckay, along with other members of the renewables team, maintains the Offshore Wind Farm Locator (OWL) database, which tracks the details of over 1,100 offshore wind projects and prospects and over 100 vessels working in the offshore wind market. She was also a contributing editor to the second edition of ODS-Petrodata's International Offshore Wind Market to 2020 report. Mckay gave a presentation on the offshore wind vessels market at the Offshore Wind Support Journal Conference in London, in February.



29 | Offshore wind and oil and gas convergence – implications for maintenance strategies, Petrofac Services, Martin Barnes, Great Britain

Barnes has over 20 years' international experience across the energy sector with a particular emphasis on the development of offshore oil and gas projects, and the maturing offshore renewable sector. He fulfils a variety of technical and business management functions in both specialist consultancies and international contractors. Barnes is currently Petrofac's director of renewables, responsible for Petrofac's offshore wind activities in the UK and Germany and for developing Petrofac's future renewables programme.



30 | Installation of wind farm transition pieces with a DP vessel

Jumbo Offshore, Jack Spaan, Netherland

Jack Spaan, BSc CE, MSc BA, is project manager for Jumbo Offshore, based in Rotterdam, Netherlands. He has gained extensive offshore installation experience working for Heerema Marine Contractors and Allseas Engineering in several project engineering and management positions. Within Jumbo Offshore he is responsible for the preparation and execution phases of offshore installation contracts, which are executed with Jumbo's two DP2 offshore heavy-lift vessels, "Jumbo Javelin" and "Fairplayer". Jumbo Offshore's track record includes the installation of (FPSO) mooring systems, deepwater templates and heavy-lift assistance in simultaneous operation with pipe-laying or ROV support vessels. During the summer of 2010, Jumbo Offshore installed 131 transition pieces at the Greater Gabbard Offshore wind farm off the coast of Harwich (UK).

11.00 – 11.30 a.m.

Coffee Break – sponsored by  **J. MÜLLER**

THURSDAY, 9 JUNE 2011



31 | Heerema – how far is experience in the oil and gas sector useful for the offshore wind industry? Heerema Fabrication Group (HFG), Nick Routledge, Netherland

After graduating in aeronautical engineering from the University of Southampton in 1983, he performed many roles, working in chemicals, plastics, refining, food and the offshore oil and gas sectors, and was based in the Netherlands with postings in the UK, Belgium, Norway and the United States. In 1998 he joined Heerema Fabrication Group. He has a business development role at the HFG Engineering Office in Europe, a new focus for Heerema Fabrication Group is renewables, HFG has been applying its offshore experience to this market and Routledge will be playing a role in pushing this forward, especially with respect to WTG sub-structures.



32 | Offshore risk assessment – what can we learn from the oil and gas industry?, Department of Industrial Economics, Risk Management and Planning, Faculty of Science and Technology, University of Stavanger, Stavanger, Norway, Prof. Jan Erik Vinnem, Norway

Jan Erik Vinnem holds an MSc degree in naval architecture (1974) and a Dr.-Ing. in system safety (1978) from NTNU. He is currently a professor at the University of Stavanger and a special advisor in risk management (Preventor AS). His previous employers include Statoil, Total E&P, NTNU, SINTEF and Safetec. He is extensively involved in research and development involving risk indicators and risk assessment methodology for offshore installations in the operational phase.

33 | Opportunities in offshore wind for Statoil - an experienced offshore oil and gas company, Statoil, Vera Ingunn Moe, Norway

Vera Ingunn Moe is working as a Principal Business Developer in Statoil's business unit Renewable Energy. She has a MA in geography and literature and a Ph.D in literature. She has worked in the Energy business since 1982 within Technology and Projects, Refining & Marketing and since 1999 within business development of new energy, mainly bio energy, wind power and hydrogen. Since the merger between Statoil and Hydro in 2007 she has been working with business development of hydrogen and wind power. She is currently asset manager of a couple of on-shore wind projects in Norway, namely Hamnefjell, Baatsfjordfjellet and Snefjord in Finnmark and Karmøy in south-western Norway.

1.00 – 2.30 p.m.

Lunch Break –

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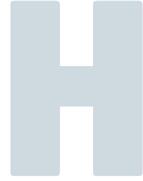
THURSDAY, 9 JUNE 2011

**9.30 a.m. –
1.00 p.m.**

SESSION H

ROOM 1

OFFSHORE WIND TURBINES – THE MARKET FOR MANUFACTURERS AND RESEARCH INTO OPERATION AND MAINTENANCE



Chair: Bernhard Lange, Fraunhofer IWES

Bernhard Lange is head of the department for energy meteorology and system integration at the Fraunhofer IWES in Kassel. He studied physics with a thesis on wind energy at the universities of Konstanz, Edinburgh and Oldenburg. From 1998 to 2002 he completed his dissertation on the topic of "Modelling the marine boundary layer for offshore wind power utilisation" at the Risø National Laboratory in Denmark and at the University of Oldenburg. He is also project leader of a number of research and industrial projects in the field of online-monitoring and forecasting of wind energy feed-in for widely spread-out supply structures.



34 | Challenges and Chances for the German Offshore Industry

REpower Systems, Frank Zimmermann

Frank Zimmermann is an industrial manager, who has worked for almost 30 years in the power generation industry, where four years ago he joined the offshore wind industry. Today he is responsible for the offshore business of REpower Systems AG.



35 | Facing the winds of change – BARD's offshore strategy

BARD Holding, Daniel Brickwell

Daniel Brickwell holds a PhD in business economics from the Free University of Berlin. He worked there as a research assistant from 1994 to 1999 before becoming a sell-side equity analyst for ABN Amro Bank in Frankfurt from 2000 to 2002. In 2003 he joined wind farm developer Plambeck Neue Energien AG as head of project finances. From 2004 to 2007 he was the CFO of Gamesa Energie Deutschland GmbH. At the end of 2007 he joined BARD Engineering as head of sales, and since 2011 he has been BARD's commercial project director NL and sales director.



36 | AREVA Wind developments and offshore solutions

Areva Wind, Michael Munder-Oschimek

Michael Munder-Oschimek studied business administration after the successful completion of his training in wholesale and foreign trade. In a further course of study he qualified in management and marketing. In 1999 he took charge of the service division of Siemens Wind Power GmbH. He has been with AREVA Wind since the start of 2009 and its managing director since 2010. He recently handed over management of AREVA Wind's offshore service, having initiated the development and expansion of the company's offshore service activity since 2009.

11.00 – 11.30 a.m.

Coffee Break – sponsored by



THURSDAY, 9 JUNE 2011



37 | Big is beautiful – why the V164-7.0 MW turbine will improve the cost of energy for offshore wind, Vestas Wind Systems, Anders Bach Andersen

Anders Bach Andersen is a specialist in wind power economics for Vestas. He does strategic profitability analyses for offshore and onshore wind. Prior to joining Vestas he was with Suzlon Energy Ltd. He holds a BSc (Hons) in mechanical engineering, is a certified Six Sigma green belt, and has studied general business. Before joining the wind power industry, he worked in sales and was responsible for process refrigeration systems in Russia, China and other countries.



38 | Siemens Wind Power, Offshore – a German success story

Siemens Wind Power A/S, Offshore, Gustl-Bernhard Friedl

Gustl-Bernhard Friedl was named CEO, Offshore, at Siemens Wind Power A/S in November 2008. He finished his diploma degree in electrical engineering at the Technical University of Karlsruhe in June 1990. In September 1993, he completed his doctoral dissertation in physics. Friedl joined Siemens AG Transportation Systems in 1993 as an expert in the engineering and development department.



39 | Operational durability on call – efficient maintenance strategies

Fraunhofer IWES, Philipp Lyding

Philipp Lyding has been on the research staff of the Fraunhofer Institute for Wind Energy and Energy System Technology (IWES) since the end of 2008. He is responsible for reliability and maintenance, for which he assesses statistically the reliability and efficiency of wind energy use. He studied industrial engineering with a particular focus on renewable energies at the University of Hanover.



40 | Damage caused by micro-organisms in the offshore environment – bio-corrosion and lubricant contamination, Head of Department 4,

Department of Microbiology, Bremen Institute for Materials Testing, a Division of the Institute for Materials Science, Jan Kuever

Jan Kuever has a degree in biology and a PhD from the University of Oldenburg, and from 1992 to 1993 he studied at Cornell University, Ithaca, USA. From 1993 to 2002 he worked at the Max Planck Institute for Marine Microbiology in Bremen, and since 2003 he has been head of the microbiology department at the Bremen Institute for Materials Testing.

1.00 – 2.30 p.m.

Lunch Break –

Catering tent at quay Neuer Hafen – sponsored by



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THURSDAY, 9 JUNE 2011

**2.30 –
4.30 p.m.**

SESSION I

ROOM 2

PORT INFRASTRUCTURE – WHERE ARE WE AND WHERE DO WE NEED TO GO?



Chair: Andree Iffländer, Competence Network Rostock

Iffländer is offshore project leader for Offshore Ostsee Wind AG, Börgerende and the three offshore projects Baltic 1, Baltic 2 and their joint grid connection. He is a project team member for the FINO II research platform and collaborated on the Kriegers Flak 2 and Finngrundten (Sweden) projects. Since 2008 he has been office director for wpd Offshore Solutions in Rostock and EnBW adviser for the EnBW Baltic 1 and 2, EnBW Hohe See and – Hei Dreih projects. He has been worked on the development of the wpd projects Kaikas, Notos and Aiolos. In 2010 he became project manager of the Butendiek wind farm and is a founder member and chairman of WIND Energy Network Rostock e.V., Mecklenburg-Vorpommern's on- and offshore wind energy network.



41a | Lower Saxony seaports as part of the northwest wind energy network – linking offshore sites in the northwest region to a functional offshore network using intelligent shuttle systems

J. Müller Aktiengesellschaft, Seaports of Niedersachsen, Jan Müller

Jan Müller has been managing partner of the J. Müller group since 1992 and board chairman since 2010. He is responsible for business development, corporate management, transport and infrastructure. He holds honorary positions as vice-president of IHK Oldenburg, member of the Seaport of Niedersachsen GmbH board of directors, and executive committee member of the Central Association of German Seaports (ZDS).



41b | Lower Saxony seaports as part of the northwest wind energy network – linking offshore sites in the northwest region to a functional offshore network using intelligent shuttle systems,

Seaports of Niedersachsen, Andreas Bullwinkel

Andreas Bullwinkel is managing director of Seaports of Niedersachsen GmbH and is a trained shipping merchant with a degree in industrial engineering. Before joining Seaports in 2004 he was a self-employed business advisor in marketing and sales as well as strategic business development. Prior to this he held senior positions in various shipping companies in Bremen.



42 | Logistics infrastructures in Bremerhaven for im- and export, the installation of offshore wind farms in the North Sea and their service, maintenance, repair and management, BIS Economic Development Company, Nils Schnorrenberger

Nils Schnorrenberger has been managing director of BIS Economic Development Company Ltd since June 2010. He studied law and agricultural economics at the Christian Albrechts University in Kiel and from 1999 to May 2010 was head of the BIS business unit for economic promotion (real estate, investment and technology promotion, marketing und project development). From 2002 to 2010 he was board chairman of the Wind Energy Agency Bremerhaven/Bremen (WAB).

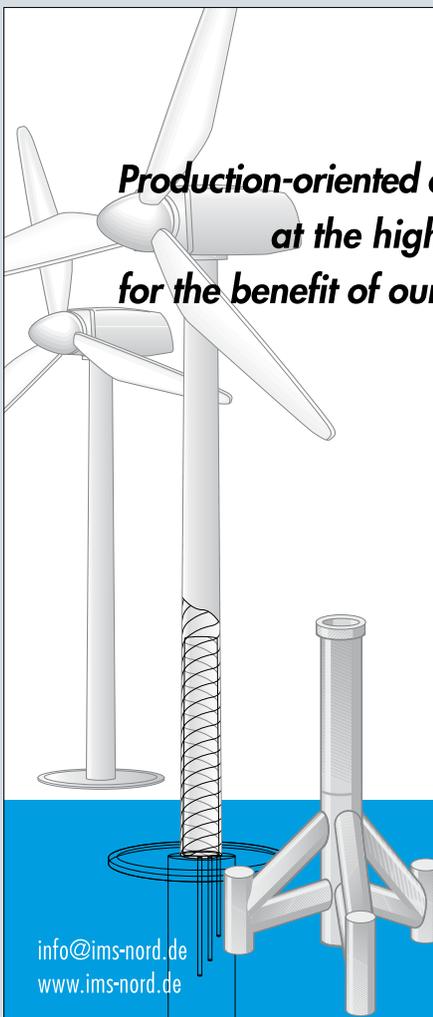
THURSDAY, 9 JUNE 2011**43 | Port extension for the offshore wind industry:**

The example Sassnitz/Mukran, Fährhafen Sassnitz, Patrick Schwabe

Patrick Schwabe studied political science and law at the universities of Greifswald, Bremen and Uppsala (Sweden). He completed his studies with a degree in political science in 2005. Since 2007 he has worked at the Sassnitz ferry terminal, focussing in particular on the development of the offshore wind energy sector. Since 2009 he has been in charge of the Sassnitz terminal's office in Hanover.

**44 | Helgoland as a maintenance and service station for offshore wind energy in the North Sea, Hafenprojektgesellschaft Helgoland, Peter Singer**

Since March 2011 Peter Singer has been managing director of the port project company Helgoland mbH, engaged in port development. Until the foundation of this development company he was project leader for port infrastructure measures on Helgoland. Prior to this he was in charge of corporate investment management for the Pinneberg district. He is a member of the Hafenkooperation Offshore Häfen Nordsee SH steering group.



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2.30 –
4.30 p.m.**SESSION J****ROOM 3****HEALTH, SAFETY AND ENVIRONMENTAL PROTECTION**

J

**Chair:** Irina Lucke, EWE

Irina Lucke is a junior project leader for closed-end participation funds for wind energy with the issuing house König & Cie., Hamburg. She is also project leader for solar funds there. She is joint project leader for EWE Energie AG for the Alpha Ventus offshore wind farm and their technical project leader for the Riffgat offshore wind farm.



45 | Safety in the construction of offshore wind farms from an official perspective, Staatliches Gewerbeaufsichtsamt Oldenburg, Sybille Schnegelsberg
Bachelor of Architecture - Faculty of Architecture and Civil Engineering Oldenburg, MSc Integrated Coastal Zone Management (ICZM) Institute for Chemistry and Biology of the Marine Environment (ICBM, Master Thesis: "Integration of the HSE-Concept of Offshore- Windfarms in the Contingency-Plan of the German Bight". Worked for various architect's offices and in the field HSE concept-development for offshore Windfarms in charge of the GAUSS Institute in Bremen. Since May 2010 employed at the state labour inspectorate Oldenburg responsible for the supervision of offshore Windfarms in the northwesterly part of the EEZ of the North Sea.



46 | Project-related protection- and safety concepts for an offshore wind farm in Germany's foreign economic zone – the example of Global Tech 1
 Global Tech I Offshore Wind, Silvia Fedra Pestke

After gaining a law degree and a Master's in european and international law, Silvia Pestke worked towards her doctorate for three years at the University of Bremen in collaboration with MARUM [Center for Marine Environmental Sciences] on legal frameworks for the legal and policy aspects of European fishing rights, marine spatial planning and offshore wind farms. After several years' experience as a lawyer, notably for renewable wind energy projects, she was legal consultant at the Federal Maritime and Hydrographic Agency, Hamburg. She is now a legal counsel, dealing inter alia with the coordination of project financing and HSE concepts for the Global Tech I offshore wind farm.



47 | Medical examinations for working in the offshore environment
 Specialist in general and occupational medicine and head of occupational health specialist practice, Ulrich Rogall

Ulrich Rogall studied medicine in Hamburg and Heidelberg and in Zurich, Switzerland. He is a consultant in general and occupational medicine and since 1997 has run a consultancy for occupational medicine in Hamburg. He is an accredited specialist for radiation protection and G35 medical examinations for tropical climates. Since 2001 he has been a licensed doctor for OGUK/UK00A-medical (Oil and Gas UK) in Britain as well as for the conduct of examinations in accordance with the Norwegian OLF-Rogaland offshore guidelines. He was a member of the working group that formulated DGMM guidelines for the examination of employees at German wind turbines.



48 | Requirements in the planning, construction and operation of offshore wind farms from the perspective of local authorities in coastal areas
 Schutzgemeinschaft Deutsche Nordseeküste (SDN), Rudolf-Eugen Kelch

Rudolf-Eugen Kelch was a district executive construction director who from 1973 held responsibility for construction and landscape planning in North Frisia. From 1981 he dedicated himself to the setting up and management of an environmental office with remits for the protection of nature and landscape conservation, water and waste management and soil conservation. He has been retired since 2005. Since the mid-1980s he has been on the board of the Association for the Protection of the German North Sea Coast, and was its chairman for nine years.

49 | Emergency maintenance for offshore wind parks, Federal ministry of transport, building and urban development, tbc

2.30 –
4.30 p.m.

SESSION K

ROOM 1

**OFFSHORE WIND TURBINES –
NEW MANUFACTURERS ENTER THE MARKET**



Chair: Dirk Briese, wind:research

Managing director of trend:research since 2001. Previously, he conducted market research, consulting and M&A projects as the Head of the Department for Acquisitions and Development at the utility swb AG Bremen (turnover 1,200 mio. €) for over four years. Prior to this he worked for several years in a market research and consulting company in the energy and environmental technology industry. He holds a masters degree in business administration and a bachelor in Political Science and English from the University of Tübingen. Mr. Briese is author of numerous publications in the energy industry and regional contributor for an international magazine. He regularly chairs sessions in the field of energy production and generation as well as other national and international conferences.



50 | Alstom’s new generation 6 MW offshore wind turbine: robust, simple and efficient, Alstom Wind, Frédéric Hendrick, Spain

Frédéric Hendrick is 46 years old and currently vice-president Offshore for Alstom Wind. He previously held several industrial positions with Alstom Transport, where he was in charge of rolling stock manufacturing before heading the urban rolling stock (tramways & metros) section, for which he subsequently took responsibility for marketing. He graduated as an electrical engineer and began his career in the automotive industry, working for Peugeot for more than 12 years. He then worked for five years for Pechiney in various manufacturing positions before joining Alstom in 2005.



51 | Gamesa’s approach to the offshore wind industry Gamesa, David Guíu-Poblador, Spain

David Guíu-Poblador is an industrial engineer who recently joined the Gamesa offshore division to head offshore sales in Europe and also to open the Gamesa offshore office in Hamburg. Previously he was sales manager in the strategic project department at Gamesa, during which time he was responsible for Gamesa’s entry into several countries. Prior to joining Gamesa, he was area sales manager at Liebherr Mining Division, based in Colmar, France.



52 | GE offshore turbine – Optimizing Life Cycle Cost of Energy General Electric, Stefan Hartge

Stefan Hartge studied at the Hochschule für Technik Karlsruhe [University of Applied Science in Karlsruhe] and began his professional career in 1999 at Siemens in the field of application engineering for turbo generators. Since 2000 he has worked in the wind energy sector for Enercon in charge of electrical engineering. From 2007 to 2009 he was product manager at GE Energy, introducing the GE 2.5XL wind turbine. Since the end of 2009 he has been product manager for the offshore sector, located at GE’s Offshore Technology Center in Hamburg.



53 | Nordex goes offshore, Nordex Energy, Christian Busdiecker

Christian Busdiecker is an industrial engineer. From 2006 to 2008 he was senior consultant with Roland Berger Strategy Consultants. From 2009 to 2010 he worked for Nordex SE in corporate development, with a focus on entry into the offshore market. Since 2011 he has been head of offshore business development in the offshore business unit of Nordex Energy GmbH.



54 | Overdue technological development for offshore wind turbines – a client’s perspective, wpd offshore solutions, Martin Lehnhoff

From 1998 to 2004 Martin Lehnhoff was head of the mechanical design department and project manager for the development of the Multibrid M5000 at aerodyn Energiesysteme in Rendsburg. He was managing director at Multibrid GmbH in Bremerhaven with responsibility for company development, development/design and manufacturing. Since 2009 he has been managing director at wpd offshore solutions GmbH, responsible for team development, offshore wind farm project implementation and engineering consultancy.

Conference programme

	Tuesday, 7 June 2011
7.30 – 9.00 a.m.	Registration for excursion
9.00 a.m. – 5.00 p.m.	Excursion
	Conference Center in the ATLANTIC Hotel SAIL City
5.00 p.m.	Registration opens
6.00 p.m.	OPENING OF CONFERENCE
7.30 – 8.30 p.m.	Panel discussion LOGISTICS, INFRASTRUCTURE, SHIPS – WHERE ARE WE NOW AND WHERE DO WE NEED TO GO?
8.30 p.m.	Champagne reception
	Wednesday, 8 June 2011
8.00 a.m.	Registration
9.30 a.m. – 1.00 p.m.	SESSION A ROOM 2 SERVICE AND MAINTENANCE, EXPERIENCE GAINED, AND PROBLEMS TO BE SOLVED
9.30 a.m. – 1.00 p.m.	SESSION B ROOM 3 FROM THEORY TO REALITY – EUROPEAN AND GERMAN OFFSHORE WIND ENERGY PROJECTS
9.30 a.m. – 1.00 p.m.	SESSION C ROOM 1 BUILDING A GERMAN OFFSHORE WIND INDUSTRY
11.00 – 11.30 a.m.	Coffee Break – <i>Nordseetaucher</i> live presentation in front of the venue
1.00 – 2.30 p.m.	Lunch Break
2.30 – 3.30 p.m.	SESSION D BOAT OUTING ON THE WESER RIVER
3.30 – 4.00 p.m.	Coffee Break at the WeserWind quay, Fischereihafen Bremerhaven
4.00 – 6.00 p.m.	SESSION E LIVE PRESENTATIONS AT THE WESERWIND QUAY, FISCHEREIHAFEN BREMERHAVEN
6.00 – 11.00 p.m.	MARITIME WIND DINNER on the production hall of WeserWind GmbH Offshore Construction Georgsmarienhütte, Am Lunedeich 158, 27572 Bremerhaven – Entrance: Labradorstraße

overview

Simultaneous German-English and English-German translation is available throughout the conference. Presentations will be held in English and German.

Thursday, 9 June 2011

8.00 a.m.	Registration
9.30 a.m. – 1.00 p.m.	SESSION F ROOM 2 LOGISTICS
9.30 a.m. – 1.00 p.m.	SESSION G ROOM 3 OFFSHORE OIL AND GAS MEETS OFFSHORE WIND
9.30 a.m. – 1.00 p.m.	SESSION H ROOM 1 OFFSHORE WIND TURBINES – THE MARKET FOR MANUFACTURERS AND RESEARCH INTO OPERATION AND MAINTENANCE
11.00 – 11.30 a.m.	Coffee Break – <i>Nordseetaucher</i> live presentation in front of the venue
1.00 – 2.30 p.m.	Lunch Break
2.30 – 4.30 p.m.	SESSION I ROOM 2 PORT INFRASTRUCTURE – WHERE ARE WE AND WHERE DO WE NEED TO GO?
2.30 – 4.30 p.m.	SESSION J ROOM 3 HEALTH, SAFETY AND ENVIRONMENTAL PROTECTION
2.30 – 4.30 p.m.	SESSION K ROOM 1 OFFSHORE WIND TURBINES – NEW MANUFACTURERS ENTER THE MARKET

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PROGRAMME

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OPENING WORDS

Melf Grantz, Mayor of Bremerhaven

Ronny Meyer, Managing Director, WAB

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Dirk Kassen, Managing Director, WeserWind



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Shuttle buses

Tuesday, 7 June 2011

Information also at
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7.30 a.m. Primula Hotel
 7.45 a.m. Atlantic Hotel am Flötenkiel
 8.00 a.m. Columbus Hotel
 8.15 a.m. Hotel Adena

7.45 a.m. Comfort Hotel Bremerhaven
 8.00 a.m. Hotel Amaris
 8.15 a.m. Hotel Haverkamp

at 9.30 p.m.
and 10.30 p.m.

Shuttle buses will run from the conference / reception venue

Conference Center ATLANTIC Hotel SAIL City to all hotels:

Hotel Haverkamp, Atlantic Hotel am Flötenkiel, Comfort Hotel Bremerhaven,
Hotel Adena, Hotel Amaris, Columbus Hotel, Hotel Primula

Wednesday, 8 June 2011

Morning shuttle bus service to the venue:

7.45 a.m. Primula Hotel
 8.00 a.m. Atlantic Hotel am Flötenkiel
 8.15 a.m. Columbus Hotel
 8.30 a.m. Hotel Adena

7.45 a.m. Comfort Hotel Bremerhaven
 8.00 a.m. Hotel Amaris
 8.15 a.m. Hotel Haverkamp

3.00 p.m. **After lunch buses will be available as an alternative to the boat trip to
WeserWind where live presentations will take place in the afternoon.**

5.30 p.m. **After Session E (live presentations at the WeserWind quay),
shuttle buses will run to all hotels and Bremerhaven Central Station.**

After-dinner shuttle bus service:

at 10.00 p.m.
and 11.00 p.m.

Shuttle buses will leave the dinner venue for all hotels:

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Columbus Hotel, Hotel Adena, Hotel Amaris, ATLANTIC Hotel SAIL City,
Primula Hotel.

Thursday, 9 June 2011

Morning shuttle bus service to the venue:

7.45 a.m.	Primula Hotel
8.00 a.m.	Atlantic Hotel am Flötenkiel
8.15 a.m.	Columbus Hotel
8.30 a.m.	Hotel Adena

7.45 a.m.	Comfort Hotel Bremerhaven
8.00 a.m.	Hotel Amaris
8.15 a.m.	Hotel Haverkamp

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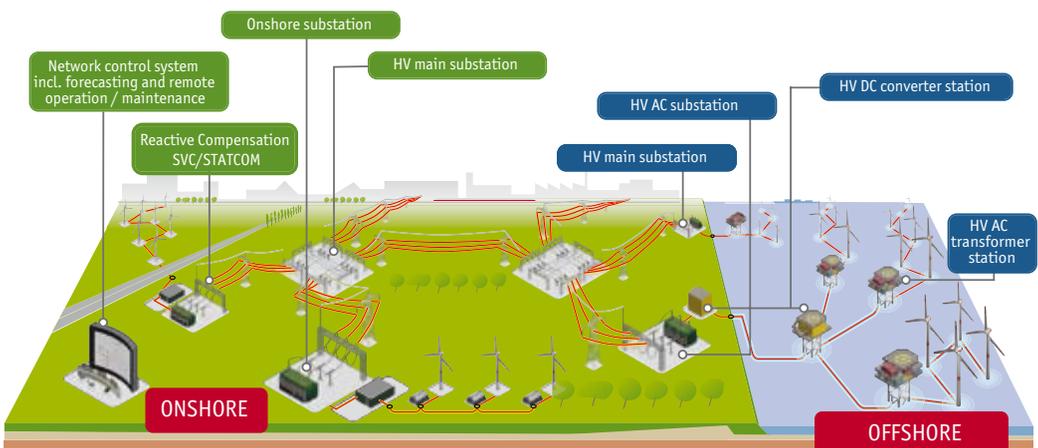
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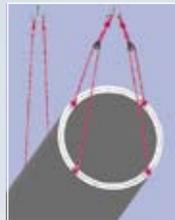
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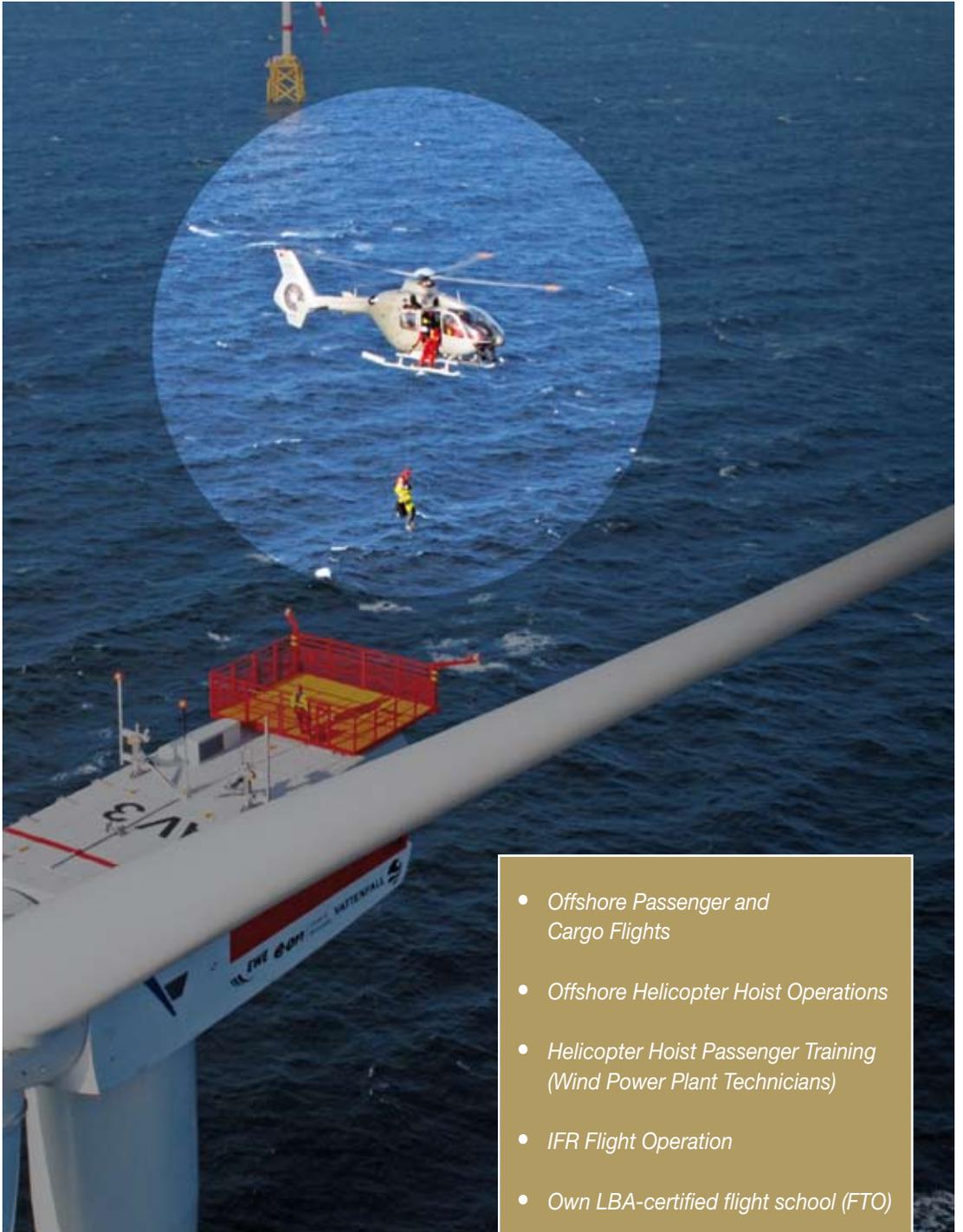
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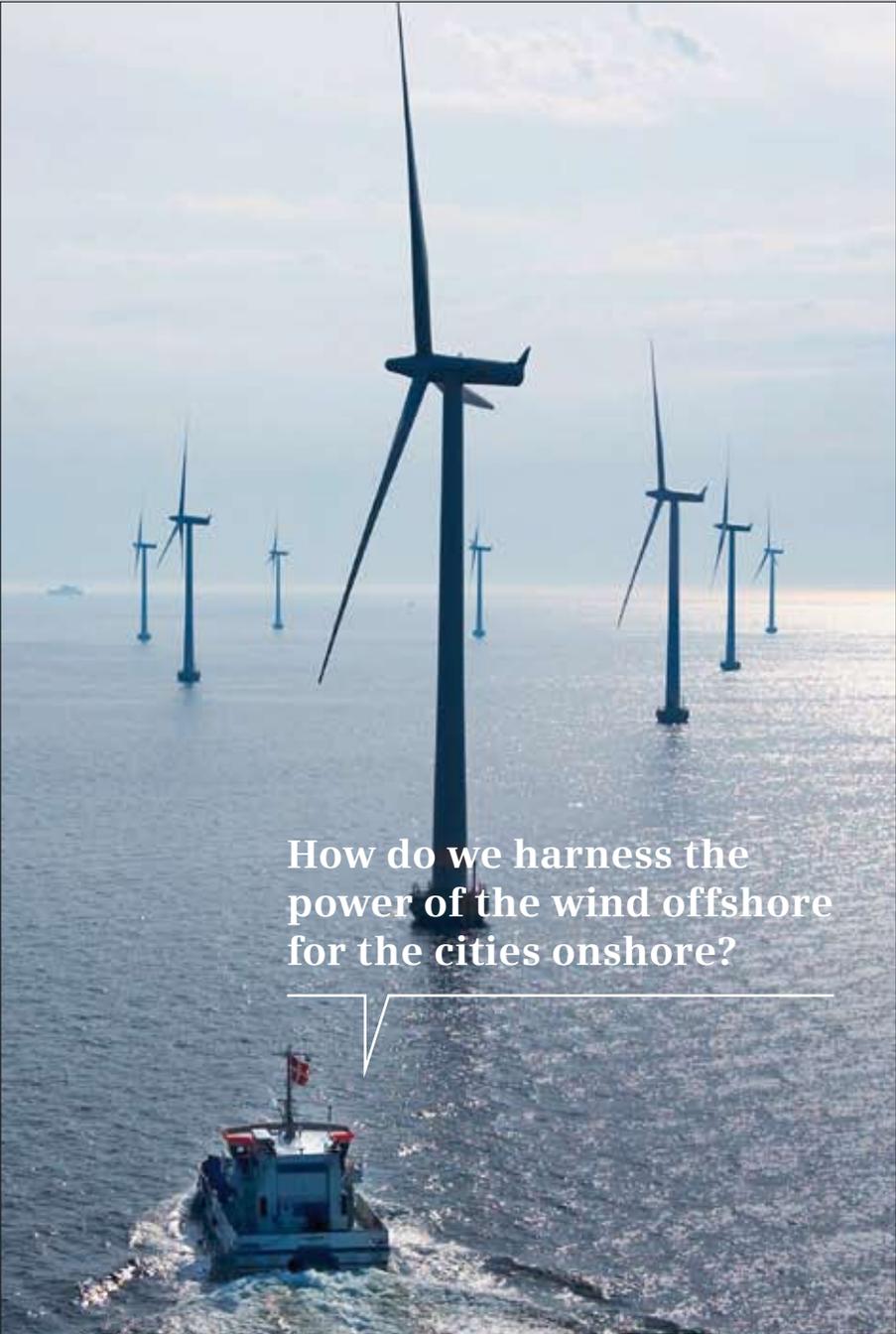
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Important telephone numbers

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Nadja Niestädt

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