

WINDFORCE

Guide



WINDFORCE 2016
Bremen

12th WAB Offshore Conference **7-9 June**

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Offshore Accommodation

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Offshore Living Quarters

with feel-good guarantee



ELA Container Offshore GmbH has updated the interior of the 20-foot offshore living containers. Starting immediately, ELA customers have the opportunity to choose this premium version.



A modern and appealing wooden-look for the cabinets and beds, as well as a yacht flooring create more comfort and improve the feel-good factor. The ELA Offshore Living Quarter is designed for the use on rigs, converter platforms and all types of seagoing vessels, pontoons and barges. Due to the 20 ft ISO Norm, CSC measurements and the tare weight of only 6.5 / 7.7 t the handling is easy and the containers are delivered at low costs within a minimum of time. However, the unit provides enough space for a shared sanitary unit and two separate living rooms to increase users' comfort factor and ensure their privacy.

Next to the ELA Offshore Living Quarter we provide Multipurpose Offshore Containers such as offices, mess rooms, galleys, laundry facilities, recreation or locker rooms for your individual demand. The high quality Containers are "Made in Germany" according to German quality standards and possess all necessary certifications such as DNV 2.7-1 / EN 12079-1, DNV 2.7-2, based on SOLAS, IMO FSS Code and MLC as well as CSC and are approved from several IACS-companies. In terms of fire resistance, an A60 insulation provides high safety standards. Every container will be checked before delivery. Depending on customer requirements, ELA Offshore Containers are individually customized, immediately operational and are available at short notice.

You are kindly invited to take a look inside and convince yourself of the high quality of ELA Offshore Containers!

Special Container

for your individual requirements

One container is not just like another. For each project different specifications and requirements for a container come up. The same applies to the Offshore industry in which more and more special containers for individual works on the high sea are needed.

"Depending on our clients' requirements, we can build or modify every type of container. In general, we try to plan with and stick to our standard, however, sometimes the requirement can only be satisfied by using a specialized container", says Hans Gatzemeier, Managing Director of ELA Container Offshore GmbH. No matter of Offshore Workstation, Offshore Laboratory, ROV or Rescue Container: every special demand can be realized in form of containers and is –thanks to the ISO Norm measurements– easy to handle. However, also different measurements, that do not comply with ISO Norm, can be build by ELA. "We can also produce containers with additional windows and doors or equip the container with an electrical installation, air conditioning and heating. If required we also take care of the necessary DNV and / or CSC approval", explains Hans Gatzemeier. "Our clients appreciate the multiple possibilities and the high quality of our containers and use our special build containers more often".



You are kindly invited to take a look inside our special container, have a coffee and unwind from the busyness of the conference.

Do not hesitate to contact us for any further information:

ELA Container Offshore GmbH Zeppelinstraße 19–21, 49733 Haren (Ems), Germany
Phone +49 5932 506-506, E-Mail info@ela-offshore.com, www.ela-offshore.com

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Partial sponsors:



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Message of greeting by Sigmar Gabriel

Federal Minister for Economic Affairs and Energy,
for the WINDFORCE 2016 offshore conference



Bundesministerium
für Wirtschaft
und Energie



2015 saw a real breakthrough in offshore wind power generation. Within the space of a year, more than 2,200 megawatts of electricity were fed into the grid. We are seeing innovative technical developments that will raise competition and reduce the cost of generating electricity at offshore wind farms. When it comes to the construction of new grid infrastructure, the level of coordination between wind farms and

the various grid operators is improving. Offshore wind energy has thus established itself on an industrial scale as a key pillar of the maritime economy.

Today, more than 3,300 megawatts of offshore power are being generated by North Sea and Baltic Sea wind farms. Thanks to the excellent wind conditions in these parts, these wind farms can deliver electricity at almost all times of the day and night. Further wind farms are currently under construction or at the preparatory stages. This means that we can expect to reach an output of 4 gigawatts this year and of 7 gigawatts by 2020. It also means that our targets are realistic. This development has been made possible thanks to the path-breaking changes made to the Renewable Energy Sources Act two years ago.

A desire to invest in Germany's energy infrastructure is not only being witnessed among power plant operators. Manufacturers of turbines and foundations, construction and logistics companies, as well as port operators, are also investing in the development of new concepts and technologies, which is very pleasing. Together, all of these actors will enable costs to be reduced much further over the coming years. One example of this can be seen in the way this investment is impacting wind farm capacity. Up until recently, most German and European wind projects were based on the construction of facilities offering 4 MW of installed capacity. Today, most of these are 6 MW generation plants. On top of this, construction of the first 8-MW facilities in Germany has already been announced for the near future.

The Federal Government is vigorously supporting the expansion of offshore wind energy. By providing a secure policy environment for investors and a clear commitment to developing offshore wind energy, it is playing a significant role in keeping risk prognoses and financing costs down. Optimising logistics concepts for the installation and maintenance of the facilities will enable generation costs to fall even further.

Ensuring this kind of cost optimisation in offshore wind power is crucial as it enables us to maintain public acceptance levels for this kind of technology. We also need to make sure that the energy transition remains affordable for private households and that energy costs are kept as low as possible for our industry.

The fixed, statutory level of remuneration for offshore wind power in place today is preventing us from achieving this goal. This is why we are currently making the necessary legal preparations that will enable the use of auctions as an incentive to reduce the level of costs involved. Experience with auctions in other countries has shown that the level of investor interest in offshore wind energy is immense. The use of auctions visibly reduces costs and, with it, the level of remuneration.

As for the future, we are supporting the coastal regions in promoting clear and investment-friendly legal rules that do not impose costs on the electricity consumer. We will clearly define the capacity volumes to be auctioned and ensure that wind energy can be consistently expanded at a sufficient level. We will do everything necessary to ensure that the construction of the wind farms and their entry into service at both grid and at plant level become even better harmonised.

Not only is offshore wind power a vital pillar of our energy transition, it is also a key sector for economic growth across the whole of our country. The traditional maritime industry and traditional engineering have already made a very important contribution towards developing offshore technology, which is still relatively young, and have helped it become established. I believe that there is more potential for the maritime industry to become involved in this, e.g. through the building of innovative, high-performance dedicated vessels and the construction of complex structure, foundations, and platforms.

Innovation development and jobs in plant and machine construction for wind energy are spread across the whole of Germany, and are especially found in the south. The different components that make up the overall project need to be further coordinated within Germany's cluster for offshore wind farms. This is why I am absolutely delighted that the working group on networking between the maritime industry and the offshore wind industry is to continue its work as part of a project entitled 'Working together to strengthen the maritime and offshore wind industries' which is being funded by the Federal Ministry for Economic Affairs and Energy.

I wish all those taking part in the WINDFORCE 2016 excellent conversations, good business deals, and fruitful discussions. The WINDFORCE conference makes an important contribution towards raising the competitiveness of German companies in the field of offshore wind energy and is thus helping to make the energy transition a success.

Sincerely yours

Sigmar Gabriel

Federal Minister for Economic Affairs and Energy

Words of welcome from the Organisers

WINDFORCE

wab windenergie
agentur

Andreas Wellbrock, WAB e.V. and Jens Eckhoff, Offshore Wind Messe- und
Veranstaltungs GmbH



(the first time was prior to the 2014 EEG amendment), everyone is noticing that needed industrial policies are lacking, as is the reliability of politicians.

As a matter of course it is right that the development of renewable energies, particularly onshore and offshore wind, must be synchronised with grid expansion. Here we urgently need to boost and accelerate grid expansion, and not slow down the expansion of renewables, if we expect to achieve climate protection goals.

Dear Participants at WINDFORCE 2016!

Welcome to Bremen! We are pleased to see you here on the occasion of the twelfth WINDFORCE conference, ready to enjoy three exciting days with us. With more than sixty speakers from Germany and abroad, a relaxed get-together to launch the event, and the exclusive WINDFORCE Dinner, the conference is the place where we can give you the opportunity to find out the latest in the offshore wind industry, get up to date on the current state of projects, renew old contacts, and make new ones.

After more than ten years of intense work, discussion, and visionary plans for the future, the offshore wind industry has arrived in everyday life as an established industry and has in fact grown out of its infancy. Additionally, even more production sites for offshore wind turbine components are being built in Germany and Europe. While more and more countries have recognized the opportunities to be gained from power production with offshore wind turbines, there is currently an intense debate going on here in Germany – the land of the energy turnaround – to slow down the building of additional capacity under the new Renewable Energies Act (EEG) amendment.

We must remind ourselves that our Chancellor, in the wake of dramatic events at Fukushima, called on the German industry to enable and accelerate the energy turnaround and the shutdown of nuclear reactors associated with that. A government target of 10 gigawatts of new capacity by 2020 was set for offshore wind energy alone. The offshore industry with all of its downstream suppliers took this goal seriously. Now that the industry has become highly insecure for the second time

It is these ever-changing political conditions that are the real challenge facing the offshore wind industry. Therefore we will not tire of pointing out that the installation of wind farms at sea and the sheer complexity of this endeavour call for a lead time that should not be underestimated at any point. The proposed transition to a tendering model, to replace feed-in remuneration, must be made without frictional losses. After the experience of recent years, renewed uncertainty in the sector and another disruption for manufacturers must be avoided under all circumstances.

The energy turnaround, a decades-long project, cannot happen without generating electricity at sea. The offshore expertise that has emerged in Germany has a global reputation. Both factors should motivate us and make us look optimistically to the future. German companies, with more than just the development of domestic offshore wind energy in mind, have long since become important international business partners. We wish for all of you that WINDFORCE will make a strong contribution towards the next steps in utilising offshore wind energy.

Wishing you an interesting event and many good talks!

Andreas Wellbrock
WAB e.V.

Jens Eckhoff
Offshore Wind Messe und
Veranstaltungs GmbH

Words of welcome from Hans Gatzemeier

Managing Director of ELA Container Offshore GmbH



ELA Container Offshore GmbH is pleased to be again the main sponsor of the WINDFORCE 2016 – the 12th WAB Offshore Conference in Bremen. We decided to support this unique event as main sponsor since we think it is not a conference like any other – it is a conference that enjoys special attention within the industry. How far is the development of offshore

wind energy? What opportunities and challenges do we face? And most importantly nowadays: How can offshore wind power become more cost-effective and what effect will the 2016 Renewable Energies Act have on the industry?

To our opinion, still the topic of 'Offshore Accommodation' has not been very prominent in past and current discussions, however, it is a very important and challenging topic that should be given more attention – especially when it comes to the topic of cost savings. Some large installation vessels specifically designed for the wind industry already have integrated the accommodation space needed for the crew in the vessel design. Nevertheless, platforms and vessels, such as jack-up vessels and barges, will have to constantly adjust their deck layout and accommodation facilities for each project, depending on the actual number of people needed. This is where Temporary Living Quarters are an efficient, cost-effective and flexible solution to create temporary accommodation and work space.

In the past years and months a lot of discussions regarding learning curve, cost savings, product improvements and the political environment took place. In addition to all these aspects of offshore wind we would like to take a different approach by focusing on the people working and living offshore. If a wind farm is located more than 15 km from the shore, it is necessary to keep people at sea to save time and reduce costs. From the point of view of the crew they require a high quality of life, which can be established by a high standard of the accommodation units, good food and the possibility of leisure activities. From the operators point of view also the costs for additional accommodations are important.

Through the experience gained from our projects, we realized that the concept for accommodation should be more tailor made to the specific clients' needs, save space and costs by just adding a few containers or removing them again. Hence, we started to work towards flexible 20 ft. units that can quickly and easily be refitted into the desired shape and function. Hereby our new concept

ela[container]

"Flexibility on Demand – One Type, Various Accommodation Solutions" was born. Therefore, with our containers "Made in Germany" and our concept of "flexibility on demand" we offer a solution for both parties: buyers and users.

Within this concept, one of our key ideas is the saving of costs for offshore wind farm operators by providing them with the flexibility they need: even during the rental period, the accommodation facility can be extended or changed to the client's specification. Our standard 20 ft container units can be added, removed or switched and quickly connected into an existing ELA accommodation unit. All containers are ready for immediate use after being connected to the electrical circuit board system as well as the fresh and waste water systems. Due to the 20 ft ISO Norm, CSC measurements our containers can be delivered at low costs and within a minimum of time. The low tare weight of only 6.5 / 7.7 t also features an easy handling of the units. However, still, the container provides enough space for two separate living rooms to increase users' comfort factor and to offer them some privacy.

Another very important aspect that we took care of is safety. Our high quality containers are "Made in Germany" according to German quality standards and possess all necessary certifications such as DNV 2.7-1 / EN 12079-1, DNV 2.7-2, based on SOLAS, IMO FSS Code and MLC as well as CSC and are approved from several IACS-companies. In terms of fire resistance, an A60 insulation provides high safety standards to guarantee a safe environment for people working and living offshore.

Taking all these aspects, projects and developments into account, we can proudly say that – with about 390 offshore units rented out to clients in Germany, Europe and the whole world – our company, our products and the whole team is fully established in the offshore industry and we hope to further assist in questions, plannings and projects concerning 'Offshore Accommodation'! ELA Offshore is fully committed to support the WINDFORCE 2016 Conference in Bremen and we hope you will take a look inside our containers that we will showcase during the conference to get an impression of what I tried to explain above.

Let's all enjoy this event and may we all have productive exchanges, enlightening presentations and promising new business relationships.

Yours sincerely,
Hans Gatzemeier

ela[container]

ELA Container Offshore GmbH

Flexibility on Demand – One Type, Various Accommodation Solutions

ELA Container Offshore GmbH produces stand-alone offshore containers for rigs, converter platforms and all types of seagoing vessels, pontoons and barges. These offshore containers are provided as living quarters, offices, messrooms, galleys, laundry facilities, recreation or locker rooms for your individual demand.

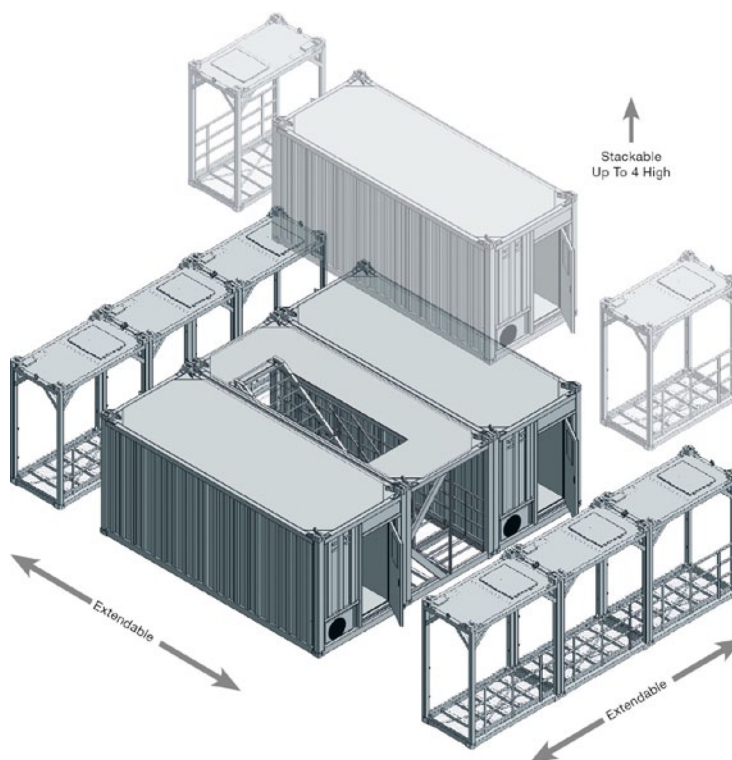
Object of ELA is to provide accommodation in flexible and convenient 20 ft. Offshore Containers. The company was shaped by experience from several offshore projects. Mr Gatzemeier, the Managing Director at ELA Container Offshore GmbH, says: "Through the experience gained from our projects we realised that the concept should be more tailor made to the specific flexible offshore requirements. We experienced that clients want to react more flexible to specific needs, save space and costs by just adding a few containers or removing them again." Thus the company started to work towards flexible 20 ft. units that could quickly and easily be refitted into the desired shape and function. Hereby the new concept "Flexibility on Demand – One Type, Various Accommodation Solutions" was born. The concept is based on two main points: flexibility on demand and high safety standards and certification.

Flexibility on Demand:

Due to the 20 ft ISO Norm, CSC measurements and the tare weight of only 7.7 tones the handling of containers is easy and the containers are delivered at low costs and within a minimum of time. To save even more space all units can be stacked up to 4 high. Even during the rental period, your accommodation facility can be extended or changed to your specifications. All ELA Offshore units can be added, removed or switched and quickly connected into an existing ELA accommodation unit. The containers can be connected with stairway and gangway containers. Therefore, a complete accommodation facility can be configured, planned and assembled on site. All containers are ready for immediate use after being connected to the electrical circuit board system as well as the fresh water and waste water systems (if necessary).

High safety standards and certification:

All containers are DNV2.7-1 /EN 12079-1, CSC certified. In terms of fire resistance an A60 insulation provides high safety standards. Mr. Hans Gatzemeier says, "We offer turnkey solutions that are 'Made in Germany'".

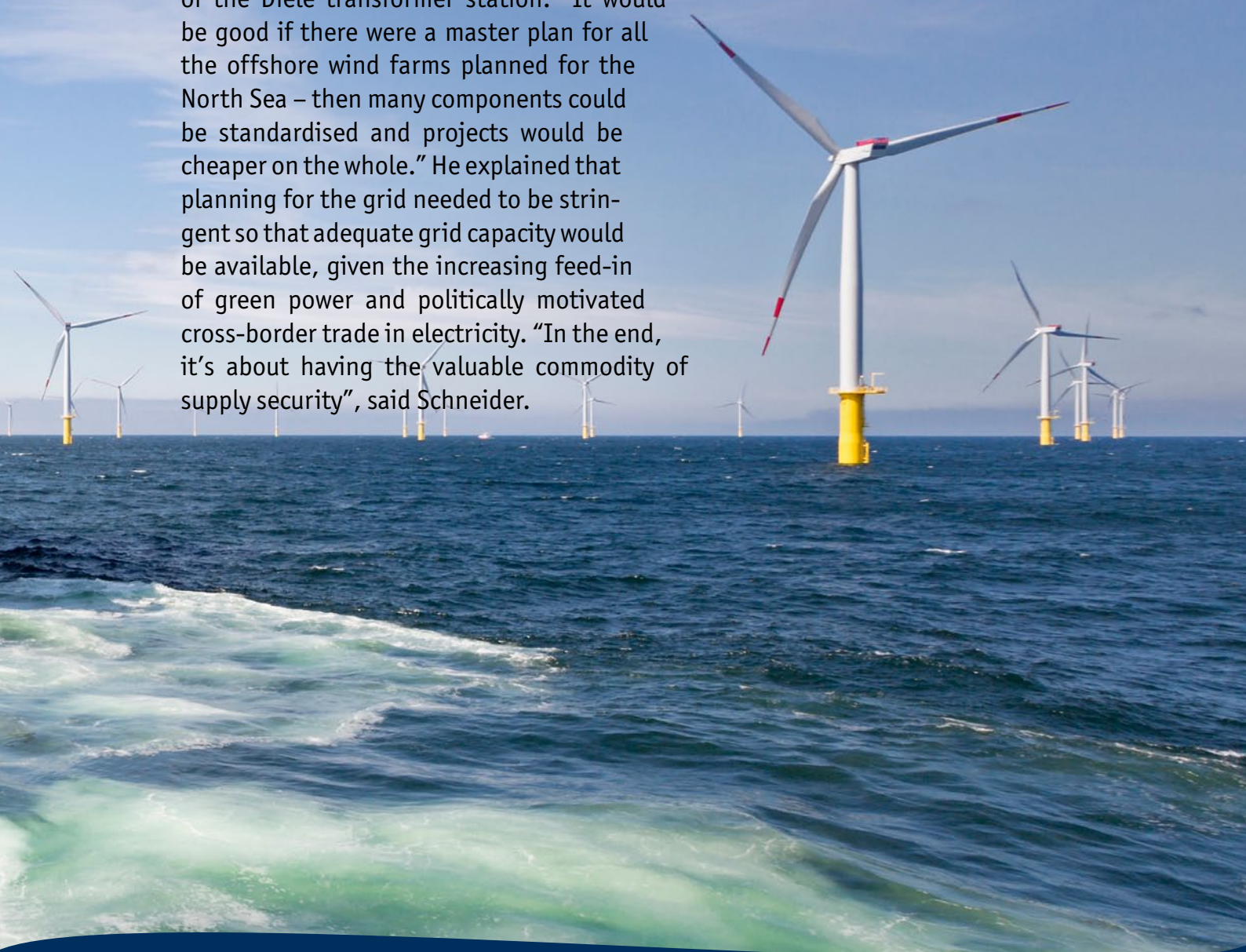


Germany and its power grids – a never-ending story



Joachim Schneider was visibly pleased by the end of 2009. “Now wind turbines can arrive – we have done our job.” Schneider, chief executive of ABB Deutschland at the time, praised his “top team” highly. After all, experts at the energy and automation technology group had installed the longest (at that time) high-voltage direct current (HVDC) transmission line to connect an offshore wind farm to the grid. And after all, the BorWin 1 converter station, about 100 kilometres north of the island of Borkum in the North Sea, is some 200 kilometres from the Weener-Diele transmission station near Papenburg in Emsland, where electricity generated in the North Sea is fed into the regular 380 kV grid on land.

Schneider spoke prophetic words at the opening of the Diele transformer station. “It would be good if there were a master plan for all the offshore wind farms planned for the North Sea – then many components could be standardised and projects would be cheaper on the whole.” He explained that planning for the grid needed to be stringent so that adequate grid capacity would be available, given the increasing feed-in of green power and politically motivated cross-border trade in electricity. “In the end, it’s about having the valuable commodity of supply security”, said Schneider.



Germany and its power grids are a kind of never-ending story. In the late 1990s, Hermann Albers, president of the German Wind Energy Association, was already pointing out that existing networks would not manage to accommodate the growing supply of green power. "Instead of taking action, grid operators began new planning much too late because they didn't believe in the success of renewables", he frequently complained. At the latest in early 2005, Albers could feel that his complaints were vindicated.

At that time, the semi-public German Energy Agency published its first study of the power grid, citing a figure which generated great interest and was highly criticized. For Germany to achieve a 20 percent share of green energy in its gross electricity consumption by the end of 2020 – a goal that the wind industry saw as much too low – an additional 1,250 kilometres of high-voltage lines alone would have to be installed by that time.

The looming dilemma in grid expansion even called politicians into action, albeit with delay. Germany's Power Grid Expansion Act (EnLAG) entered into force in the summer of 2009. It was supposed to accelerate 24 really important new projects to build an overall volume of slightly more than 1,800 kilometres of high-voltage lines. But by the end of 2015, only 614 kilometres had been installed, barely 35 percent of the goal. No wonder Jochen Homann, president of the Federal Network Agency (BNetzA) in Bonn since March 2012, assessed the situation as "disappointing".

As a permanent state secretary in Germany's Ministry for Economic Affairs and Energy a year earlier, Homann had worked with others to assign the BNetzA the responsibility for planning and approving the entire high-voltage grid. Homann's goal was to reduce the time proposed for completing new line projects from 10 to 15 years down to four to five years. In the Network

Development Plan (NEP) first introduced in 2012, the Bonn agency reviewed and approved line systems needed for coming years. Depending on the scenario, the current NEP for 2025 provides for a total length of new line projects of 3,700 to 4,300 km. It also provides for reinforcing the grid on already existing lines that total between 5,200 and 5,800 km in length. According to grid operators' calculations, this will call for a total investment of 27 to 34 billion euros in the next ten years – huge amounts of money. And that's not all, because there's another grid expansion plan just for offshore wind energy alone. The O-NEP (official abbreviation) provides for expansion needs of 902 km and converter stations with a capacity of 3,200 MW at sea, which transmission system operators figure will cost between 7 to 10 billion euros by the middle of the next decade. The O-NEP for 2025 takes into account expansion goals of 15,000 MW in offshore wind energy by 2030.

WAB's demands for grid expansion:

- Accelerated and simplified planning approval procedures for routes with underground cables (additional costs must also benefit the proceedings).
- Financial participation and/or co-ownership with profit distribution for residents affected by Network Development Plan (NEP) projects.
- Analysis of power line routes over terrain where the federal and/or state governments may directly or indirectly exert their influence, and public debate on individual routing plans (motorways, railways, and the like).
- Fixed processes and incentives for the early survey of power line routes by transmission system operators before planning approval procedures begin.
- Bridging of administrative staff shortages through the stringent outsourcing of procedural steps to private-sector third parties during the approval process.



Bastiaan Milatz welcomes that fact that grid development plans now exist and can be used as an instrument. "For far too long, grid operators planned their activities alone and held their cards close to their vests", says Milatz, a grid expert at the Büro für Energiewirtschaft und technische Planung (BET) [Office of Energy and Technical Planning] in Aachen. In the past this often led to frustration and a lack of popular acceptance. No one will deny that the Federal Network Agency is now in tune with the times regarding social media. The BNetzA is on Facebook, tweets, and posts film spots on the web to reach the wider public. But the fact is that in the end none of this has helped to expand the grid more rapidly. It is foreseeable that the three major electricity routes based on HVDC technology, provided for in the NEP and intended to transport mainly wind power generated at sea in the north to the south, will not be in operation when the last nuclear reactors are taken off the grid in 2022.

Thorsten Schwarz sees the approval process as the main cause of delay in grid expansion. "The process for approving line routes is much too complicated and takes much too long", says the sales manager of GE Grid Solutions, responsible for all of its business in Europe. With a degree in aeronautical engineering, Schwarz, formerly the managing director of Norddeutsche Seekabelwerke, who has also been active for Alstom Grid, is a member of WAB's executive board. He believes the German government could have set a fundamental course for accelerating grid expansion years ago – when the energy turnaround was still a top priority. "In addition to speeding up the process, the federal government would have been well advised to look for routes where it and the German states already had a high share of direct and indirect rights of use." For example, railways and motorways would have offered opportunities that have not been utilised.

That the German grid is jammed is evidenced in a joint complaint from Denmark, Norway and Sweden submitted to the EU Commission that came to light early in May. The three Nordic countries complained that Germany's congested and still inadequately developed power grid blocks the transmission of their cheap (green) power to the south. This is not the only complaint from neighbours. Poland and the Czech Republic are currently installing phase shifters on their borders to Germany to block unplanned

inflows of German green power. Both eastern European countries say this power puts a strain on their networks.

The Federal Network Agency as well as grid operators are caught between all fronts and despite their attempts to create transparency, popular resistance to new transmission lines has not subsided. Politicians have repeatedly intervened with the work of the network agency and of grid operators. Bavaria's premier Horst Seehofer opposed the construction of new HVDC power lines in Bavaria for months – sometimes for vote-winning reasons. In the fall of 2015, the grand coalition in Berlin finally found a compromise – to make progress with the installation of power lines, the DC cables would primarily be buried underground. Seehofer's behaviour has a certain irony – by imposing a controversial regulation on the distance kept between wind turbines, Bavaria's state government had made the construction of new turbines in Bavaria nearly impossible. New turbines there would have contributed to reducing the need for grid expansion in Germany's north.

The federal government estimates that large underground cable projects will cost at least three to eight billion euros more than overhead lines. Sigmar Gabriel, Germany's economics minister, has repeatedly emphasised that this would still be cheaper than the cost of years of delay due to litigation by angry residents.

Another consequence of the compromise with buried cables is that work would need to be rescheduled and HVDC lines would probably be built three years later than planned. Commissioning would be pushed back to 2022 and later.

That's not the only annoyance. These delays would raise the cost of "grid-stabilising systems for supply security", says Homann. This refers to re-dispatch procedures, the management of feed-in for wind turbines and the maintenance of reserve power plants during winter months. This cost already added up to 436 million euros in 2014, and the Federal Network Agency believes that "this penalty fee for the failure to expand the grid" (Jochen Homann's own words) doubled in 2015 to nearly one billion euros. Homann also believes that the scenarios of transmission system operators, according to which this cost could rise to four billion euros by 2020, are "not unrealistic".

Homann rejects the idea of covering this cost through a mutual fund scheme or the federal budget instead of through grid utilisation fees, as is the case so far. "It should remain clear that the energy sector is responsible for incurring this penalty fee. Additional expenditure is unavoidable because there aren't enough electricity networks."

The increasing financial burden for electricity customers is ammunition for those who want to limit the expansion of wind power capacity in northern Germany as long as there are not enough power lines to transmit electricity to the south. This debate is also defining the ongoing reform of the Renewable Energies Act (EEG), in which influential forces in Germany's grand coalition want to couple the further construction of new wind turbines with grid expansion – the keyword synchronization is heard more and more frequently. Federal Network Agency's boss Homann no longer sees grid expansion speeding up: "We have used up our acceleration potential."

Oliver Krischer, energy expert in the Green parliamentary group, finds this absurd. "The expansion of wind power is now supposed to be drastically curbed because policy makers have been asleep for years", he complains. He notes that other braking action like that of Bavaria's premier Seehofer has had a detrimental effect on expanding renewable energies. "This doesn't have much to do with an energy turnaround."

Thorsten Schwarz at GE Grid Solutions continues to focus on accelerating the planning process so that problems in grid expansion do not take the upper hand. "The cumulative effect of delays has been to cast doubt on the purpose of the energy turnaround. We keep spending more money to compensate for the grid expansion we don't have but need to be able to supply consumers with subsidised green power. This is economic nonsense", says Schwarz. "And not only that – everyone knows from experience that interim solutions eventually make the real solution obsolete. The market for load-balancing energy will develop in efficiency and in the end even generate new investment in conventional power plants. This would be an energy turnaround taken to the absurd."

Ralf Köpke

Conference Programme Overview

TUESDAY, 7 JUNE 2016

- from 2 p.m. Registration of conference participants **BLG-Forum**
- 4 p.m. **OPENING OF WINDFORCE 2016** **ROOM B**
- 6 p.m. **WINDFORCE RECEPTION**

WEDNESDAY, 8 JUNE 2016

- 7 a.m. Registration of conference participants **BLG-Forum**
- 8 – 9.30 a.m. **BREAKFAST SESSION** **A** **B**
ROOM A **ROOM B**
Turbines Grid Connections / Cables /
Transformer Stations
- 9.30 – 10.30 a.m. ————— Coffee break —————
- 10.30 a.m. – 1 p.m. **SESSION** **E** **F**
ROOM A **ROOM B**
National Projects Renewable Energies Act (EEG) and the draft
Wind Energy at Sea Act (WindSeeG) –
Consequences for the Offshore Wind Industry
- 1 p.m. – 3 p.m. ————— Lunch —————
- 3 – 5 p.m. **SESSION** **I** **J**
ROOM A **ROOM B**
Operations (Cluster Concepts, Synergies, Preplanning) Safety (HSE) and Safety Training
- 7 p.m. – midnight ————— **WINDFORCE Dinner** —————
HUDSON Eventloft

WINDFORCE 2016

Bremen

THURSDAY, 9 JUNE 2016

7 a.m. Registration of conference participants **BLG-Forum**

8 – 9.30 a.m. **BREAKFAST SESSION C**
ROOM A
Foundations

BREAKFAST SESSION D
ROOM B
Installation

9.30 – 10.30 a.m. Coffee break

10.30 a.m. – 1 p.m. **SESSION G**
ROOM A
Financing and Insurance

SESSION H
ROOM B
Cost Reduction / Cost Effectiveness

1 p.m. – 3 p.m. Lunch

3 – 5 p.m. **SESSION K**
ROOM A
Geotechnics and Seabed Substrates

SESSION L
ROOM B
Ports & Logistics

We reserve the right to change the programme without prior notice.

▶ Simultaneous German/English as well as English/German interpretation is available throughout the conference.



WINDFORCE 2016 Conference Programme

TUESDAY, 7 JUNE 2016

4 p.m.

OPENING OF THE CONFERENCE / KEYNOTE SPEECHES

ROOM B

Words of welcome:

- ▶ Andreas Wellbrock, Managing Director, Windenergie Agentur WAB
- ▶ Uwe Beckmeyer, Parliamentary State Secretary at the Federal Ministry for Economic Affairs and Energy
- ▶ Dr. Joachim Lohse, Senator for Environment, Construction and Transportation
- ▶ Hans Gatzemeier, Managing Director, ELA Container Offshore GmbH
- ▶ Jörg Kubitz, Head of Strategy and Business Development - Senior Director, MHI Vestas Offshore Wind

6 p.m.

WINDFORCE RECEPTION sponsored by



WINDFORCE 2017

Bremerhaven

13th WAB Offshore Conference **9–11 May**



+ over 500 international conference participants + + more than 60 international speakers + + WINDFORCE
+ more than 60 international speakers + + WINDFORCE Dinner + + over 500 international conference participants

Get the offshore feeling!

wab windenergie
agentur

 **Conference**

9 – 11 May 2017 in Bremerhaven, Germany



www.windforce.info

WEDNESDAY, 8 JUNE 2016

8 a.m. – **BREAKFAST – SESSION A**
9.30 a.m. Turbines



Chair: Senvion GmbH, Vice President Agency & Government Relations, Norbert Giese

Born 19/05/1960 in Walsrode/Germany

- 1980 – 1987 Studying Geography, Geology and Ethnology in Hamburg
Finishing with: Wind potential in Schleswig-Holstein, comparing with the development in Denmark
- 1988 – 1989 Co-Founder of the first German Wind Cooperative
- Since 1989 in Siemens Wind Power GmbH (former AN Windenergie GmbH) in different positions:
Since 1989 in Sales · Since 1994 as a share holder · Since 1999 as MD + share holder
Since 2005 (take over of Siemens) only MD until 30/06/2007
- July 2007 to June 2008 as a Consultant for Siemens Wind Power GmbH
- Since 1991 Owner & Operator of WTG´s in a “family & friends” business
- From 2002 to 2008 Vice President in the Board of association VDMA Power Systems
- From 2002 to 2008 Chairman of the wind turbine manufactures in VDMA
- From 03/07/2008 to 31/12/2008 Interims Management in REpower Systems AG, Heading the Offshore business
- From 01/01/2009 to 31/12/2010 Senior Vice President Business Unit Offshore at REpower Systems AG
- Since 01/01/2011 Vice President Offshore Development at REpower Systems SE
- Since 01/01/2014 Vice President Agency & Government Relations at Senvion GmbH



1 Adwen’s 8MW platform

The next generation of large wind turbines in the offshore wind industry

Adwen GmbH, Chief Technology Officer, Maite Basurto, Spain

Maite Basurto joined Adwen as Chief Technology Officer in March 2015.

She joined Gamesa in 2004 as Chief Engineer for the Gamesa 2.0 MW platform, and was Chief Engineer of Development of Electromechanics Technologies from 2007 to 2010. In 2010 she was promoted to Components and Industrialization Engineering and in 2013 to Wind Engineering Director. Maite has a MSc in Mechanical Engineering, a MSc in Thermal Power and Gas Turbine Technology and a PhD in Gas Turbine and Fuel Cell Hybrid Systems from Cranfield University (UK) and an EMBA from the Deusto Business School (Spain).



2 Integral Optimisation of an Offshore Wind Farm

Deutsche WindGuard Offshore GmbH, CEO, Nils Erdmann

Dipl.-Ing. Nils Erdmann, MD of Deutsche WindGuard Offshore GmbH

1995 graduation as mechanical engineer with a diploma thesis at DEWI; 1996-2010 starting as Project Engineer at PROKON Nord Energiesysteme GmbH, responsible for all aspects of onshore and offshore wind energy later on as an General Manager; Managing Director of subsidiaries Multibrid GmbH, PN Rotor GmbH and the Offshore Wind Technologie GmbH (OWT); since 1. July 2010 Managing Director of the Deutsche WindGuard Offshore GmbH. Deutsche Windguard delivers offshore safety training, technical advice and quality assurance.



3 GE's Offshore Turbine

GE Offshore Wind – ready for commercial operation

GE Renewable Germany GmbH, MD Commercial Operations Sales & Marketing (global) Offshore Wind, Markus Rieck

Since January 2010, Markus Rieck has been Country Sales Director of Alstom Germany. In this position, he is responsible for the sales activities of the Thermal and Renewable Power sectors with its business areas – ranging from turnkey conventional plants to renewable energy solutions. Furthermore, Markus Rieck is managing director of ALSTOM Renewable Germany GmbH since February 2014.

In this role, he is responsible the development of the Renewable Power sector in Germany, with a special focus on the growing on- & offshore wind business.



4 Multi-megawatt offshore wind turbines

Tough conditions for drive trains and rotor bearings

SKF GmbH, Marketing Manager Energy, Dr. Philipp Schmid

Philipp Schmid followed business studies focusing on marketing and industrial management and researched on strategic marketing in China during his PhD studies. Before joining SKF he worked as Client Service Executive and Junior Research Consultant for GfK in China and Germany. As from 2008 he joined SKF and worked as project manager, market analyst and marketing manager in the Renewable and Energy industries. Besides working for SKF he is also teaching industrial marketing at Baden-Wuerttemberg Cooperative State University.



WEDNESDAY, 8 JUNE 2016

8 a.m. –
9.30 a.m.

BREAKFAST – SESSION B

Grid connection / Cables / Transformer Stations



Chair: GE Grid GmbH, Region Commercial Director, Thorsten Schwarz

Thorsten Schwarz is serving GE currently as the Regional Commercial Leader Central Europe for their Grid Solutions business. This role covers on- and offshore grid projects in both AC and DC technologies. Prior to the acquisition by GE he had with Alstom Grid the role as Commercial VP for the CEER region. He builds upon 19 years of experience in Marketing, Sales, Business Development and General Management functions in capital goods industries and large infrastructure project business. Before joining Alstom he held the position of Managing Director of a subsea cable producer and Senior VP Sales & Marketing Turnkey Projects within the General Cable Group (2009 – 2014). Prior to this he looked after the commercial aspects of lump sum decommissioning and waste management for nuclear installations as Sales Director Western Europe & Asia at NUKEM Technologies (2003 – 2009), held the position of VP Sales & Marketing at RWE Solutions AG (2000 – 2003) and contributed as Analyst in the Marketing and Business Development of DaimlerChrysler Aerospace AG to the consolidation of the European aerospace industry. Thorsten Schwarz holds a Master of Sciences in Aerospace Engineering from the Technical University of Stuttgart (1996) and an Executive MBA from INSEAD Business School (2012). Furthermore he participated in the RWE Innogy Leadership Programme at Templeton College and the RWE International Management Development Programme. He is honorary member of the executive board of WAB e.V. as well as the Executive Board of the Power Engineering Division of the German Industry Association ZVEI.



5 OFTO for Life

Protecting the route to market

CWind Ltd., Sales Manager Germany, Stefan Marschner

Stefan Marschner joined CWind in December 2014 as Sales Manager Germany to manage the CWind Sales Office based in Bremen. He is responsible for the development of a sustainable and profitable sales pipeline within the German market.

Prior to joining CWind, Stefan worked at AREVA Wind GmbH, where he was Service Sales and Proposal Manager. At AREVA, he supported the establishment of the Service Sales team, developing and integrating them into a larger corporate organisation. Stefan is involved with preparing and pricing customised service sales offers as well as negotiating with clients. Stefan Marschner holds a Diploma in Economical Engineering and Management from the University of Bremen and a Master of Commercial Law from the University of Saarland.



6 Operational Management of Offshore Transformer Stations and the Responsibilities Involved

Remote monitoring, switching operations, maintenance and much else require dealing with many interfaces and call for competency requirements: who is responsible for what?

Deutsche Windtechnik Offshore und Consulting GmbH, Projektmanager, Alexander Huth

After his apprenticeship as a seafarer on container vessels, Alexander Huth attended the University of Applied Sciences in Bremerhaven. Upon completing his technical studies, he joined the service department of an offshore turbine manufacturer where he was responsible for the exchange of main components in the field and for preparing service strategies.



7 Cable protection

State of art and Experiences with Cable Protection

Seaproof Solutions, CEO, Henrik Bang-Andreasen, Norway

Henrik Bang-Andreasen CEO of Seaproof Solutions, a subsea solutions provider founded in 1989. Henrik Bang-Andreasen has an engineering background in military underwater and electronics systems from 1976. Entering civil arena in 1982 with Maersk Subsidiary Svitzer. He held position as general manager for MacArtney Underwater Technology Norwegian operation Normac from 1984 to 1989.

8 New Concepts for Balance of Plant Operation and Maintenance Services

A short introduction to technological advancements in the provision of Balance of Plant Operation and Maintenance Services for offshore wind farms

Siem Offshore Contractors GmbH, Business Development Manager, Alex Gauntt, U.S.A. and IMR Manager, Jan Holtermann



Alex Gauntt has been involved in the development, planning and construction of on- and offshore wind, wave & tidal farms across Europe with a focus on Germany & the UK since 2005. He has been a Project Manager, a Project Developer and worked for Tier 1 and Tier 2 service and equipment suppliers. He has worked in the subsea power cables industry since 2012 and joined Siem Offshore Contractors in August 2013 as their Business Development Manager. He is the Chairman of the IMCA Renewable's Working group on 'Walk to Work' and is an active member of the European Cables Association and Renewable UK.



Jan Holtermann has over 17 years' experience in the offshore and maritime world, spending the last 4 in offshore wind. He has been responsible for project teams and engineering teams from 7 to 20 team members working across several different functions, and combines his Naval Architecture skills with this experience to find optimum solutions for inspection and maintenance issues within the offshore wind industry. At RWE Innogy he was responsible as Senior Project Manager for the development of the Offshore Wind farm "Nordsee One" with a capacity of 332MW, and headed a Project Management Department with 8 employees and was leading the technical development and optimization of two wind farms as Engineering Manager. Jan joined Siem Offshore Contractors in February 2016 as IMR Manager (Inspection, Maintenance & Repair) and is responsible for the development of the BoP (Balance of Plant) IMR scope for offshore wind farms.

Coffee break

9.30 – 10.30 a.m.

WEDNESDAY, 8 JUNE 2016



10.30 a.m. – **SESSION E**
1 p.m. National Projects



Chair: Offshore Windmesse und Veranstaltungen GmbH, Managing Director, Jens Eckhoff

Jens Eckhoff is the President of the German Offshore Wind Foundation, who is the right holder of Alpha Ventus, Germany's 1st offshore test field, since 2005. He is a long time politician in the state of Bremen, serving for 14 years in the Parliament and for 3 years in the Government. He is supporting the wind energy for 18 years and is now working on the German Offshore Strategy for almost 15 years. He is now running his own companies and is an advisor for numerous German companies.



9 Optimized next generation wind farms

First step Gode Wind

DONG Energy, Managing Director, Trine Borum Bojsen

Trine Borum Bojsen holds a Master of science in Engineering, Sediment transport and hydrodynamics. She gained her first offshore experiences from 1995 to 2008 at Grontmij in the Ports and Marine department. In 2008 she went to DONG Energy and started in the Project Development. In 2009 she transitioned into a new role as Head of Environment & Licensing. In 2013 she was appointed Head of Project Certification & Compliance, leading also the Engineering department in Germany.

Since Nov. 2013 Borum Bojsen is Managing Director of DONG Energy in Germany and responsible for offshore wind business.



10 EnBW Hohe See

Almost everything one notch bigger

EnBW Energie Baden-Württemberg AG, Head of Project Offshore Wind, Jörn Däinghaus

Jörn Däinghaus has studied industrial engineering and management. After some years in the banking sector including renewable energy financing he joined EnBW in 2010. Since then he is working in the offshore wind business. He was the commercial manager for Baltic 1 and project manager for different wind offshore acquisition projects. Since 2013 he is managing the project EnBW Hohe See.



11 Wikinger in Construction Phase

Status up-to-date

IBERDROLA Renovables Offshore Deutschland GmbH, Managing Director, Jürgen Blume

Jürgen Blume, Dipl.-Ing. Energy and Process Engineering

4 years project manager to develop electricity storages. 8 years taking different project management responsibilities in plant engineering and construction. 1997 head of business unit "Project Management" at MVV Energie and from year 2000 onwards Managing Director of its daughter eternegy to develop wind projects in Germany and Europe. Since year 2005 Managing Director of Iberdrola Renovables in Germany with actual topics as: Realisation of OWF Wikinger as well as keeping and developing current offshore projects in the Baltic Sea.



12 Nordergründe

Deepwater turbines made in Germany for a nearshore project

Senvion GmbH, Head of Sales Offshore, Jörg Philp

Jörg Philp is Head of Offshore Sales at Senvion GmbH. He gained his initial experience in project management at Daimler as lead partner for acquisition, structuring and implementation of international projects from 1993 to 2003.

In 2003 he joined Hauni Maschinenbau AG as Manager for Contract Controlling and Export Finance. In this position he was responsible for structuring, evaluation and negotiation of contracts for international construction and engineering projects.

Jörg Philp joined Senvion in 2011 as Senior Contract Manager and has been Head of Offshore Sales since 2013. His experience in the offshore wind sector includes leading negotiations of several EPCI tender (e.g. FIDIC, LOGIC) and consortium agreements with foundation and vessel contractors amongst others.



13 Offshore Wind Farm Nordergründe

Status and first-hand experience from the river Weser estuary

wpd offshore solutions GmbH, Project Manager, Hans-Christoph Brumberg

With his experience from the shipbuilding and shipping industry Hans-Christoph Brumberg (Dipl.-Ing. oec.) joined wpd group in 2009 for the growing offshore wind business. As part of wpd offshore solutions he was since then involved in the development and realization of various offshore wind projects. Hans-Christoph Brumberg was deputy project manager and responsible installation manager for the Butendiek project and as such integral part of the successful completion of the construction in summer 2015. Since October 2015 he is leading the wpd project team for the realization of Nordergründe.

WEDNESDAY, 8 JUNE 2016

F

10.30 a.m. – **SESSION F**

1 p.m. Renewable Energies Act (EEG) and the draft Wind Energy at Sea Act (WindSeeG) – Consequences for the Offshore Wind Industry



wpd AG, Chairman of the Supervisory Board, Dr Klaus Meier

Dr. Klaus Meier (born in 1964, lawyer) is the founder and 50 percent owner of the wpd group. At the wpd group, he is Chairman of the Supervisory Board of wpd AG and of Deutsche Windtechnik aG as well as managing partner of wpd windmanager GmbH & Co. KG. Furthermore, Dr. Meier is chairman of the network WAB e.V. – a conglomerate of 380 companies from the wind power sector – and of the Günter-Grass-Foundation Bremen as well as member of the Supervisory Board of the BLG Logistics Group AG & Co. KG, a logistics service provider with a staff of 16,000.



14

OWIA Offshore Wind Industry Alliance, Project Manager for Political Communication, OWIA Berlin Office, Urs Wahl

Urs Wahl joined WAB in 2011 as project manager for cluster development and energy policy. He moved to the OWIA Office in Berlin to take up his current position in October 2012. Previously he worked as project manager for Thales Instruments and as assistant to a member of the European Parliament. Mr Wahl studied political science at the Universities of Bremen (Germany) and Tampere (Finland).



15

Becker Büttner Held, Lawyer and Partner, Dr Ursula Prall

Dr Ursula Prall, lawyer and partner with BBH in Hamburg, is engaged in the legal and political aspects of the use of offshore wind energy since 2004. She is specialised in environmental and planning as well as constitutional law. Since 2007 she was the managing director and since 2014 she is chair of "Offshore Forum Windenergie", an association of developers and operators of offshore wind farms.



16

Senator for Environment, Construction and Transport Bremen, Deputy minister, Ronny Meyer

Ronny Meyer is currently working as deputy minister at the Senator for Environment, Construction and Transport in Bremen. He was managing director of Windenergie Agency WAB from 2010 till 2015. Prior he was with the Boston Consulting Group and worked in the field of renewable energies. He started his career as an project leader for research and development for wind energy. Ronny holds a diploma in physics.



17

Senvion GmbH, Vice President Agency & Government Relations, Norbert Giese

Born 19/05/1960 in Walsrode/Germany

- 1980 – 1987 Studying Geography, Geology and Ethnology in Hamburg
- Finishing with: Wind potential in Schleswig-Holstein, comparing with the development in Denmark
- 1988 – 1989 Co-Founder of the first German Wind Cooperative
- Since 1989 in Siemens Wind Power GmbH (former AN Windenergie GmbH) in different positions:
Since 1989 in Sales · Since 1994 as a share holder · Since 1999 as MD + share holder
Since 2005 (take over of Siemens) only MD until 30/06/2007
- July 2007 to June 2008 as a Consultant for Siemens Wind Power GmbH
- Since 1991 Owner & Operator of WTG´s in a “family & friends” business
- From 2002 to 2008 Vice President in the Board of association VDMA Power Systems
- From 2002 to 2008 Chairman of the wind turbine manufactures in VDMA
- From 03/07/2008 to 31/12/2008 Interims Management in REpower Systems AG, Heading the Offshore business
- From 01/01/2009 to 31/12/2010 Senior Vice President Business Unit Offshore at REpower Systems AG
- Since 01/01/2011 Vice President Offshore Development at REpower Systems SE
- Since 01/01/2014 Vice President Agency & Government Relations at Senvion GmbH



18 Impact of the renewable energy act on the offshore industry and the offshore base ports in Germany

Practical example: “Offshore Base Cuxhaven”

AfW Cuxhaven, Head of Department of Economic Development, Dr Hans-Joachim Stietzel

Academic Education:

Geology, Ecology

Employment history:

Continental Oil Company (Conoco), Cairo

European Commission, Belgium, Brussels

Federal Environmental Agency, Berlin

Federal Ministry for Research and Technology, Bonn

Federal Ministry for Environment, Nature Conservation and Nuclear Safety, Bonn

Senate of the Free Hanseatic City of Bremen

Managing Director Cuxhaven Harbour Development Company

Scientific Director Cuxhaven Economic Development Agency

Lunch break

1 – 3 p.m.

WEDNESDAY, 8 JUNE 2016

3 – 5 p.m.

SESSION I

Operations (Cluster Concepts, Synergies, Preplanning)



Chair: WindMW GmbH, Managing Director, Jens Assheuer

Managing Director of WindMW since project start-up in 2008. Under his responsibility the Offshore Wind Farm "Meerwind Süd Ost" with a capacity of 288MW was successfully completed in April 2014 giving him 1½ year of experience in operating the 288MW offshore wind farm since commissioning in September 2015.

At the same time, he is also Managing Director of two other companies working in the field of construction & operation of offshore wind farms as part of the Blackstone Group, New York. Jens Assheuer is experienced in the field of numerical simulation of waves and swells in the North Sea, in design, construction and optimization of offshore foundation structures. In April 2003 he graduated as Master of Science in Civil Engineering from the University of Hannover.



19 Benefits of external allocation of O&M services for offshore operators and turbine suppliers

Case Study B01

Deutsche Offshore Consult GmbH, Managing Director, Jörg Engicht

Jörg Engicht, Dipl.-Ing., Managing Director Deutsche Offshore Consult, has a proven track record for offshore operations and laying telecommunications cables from 1990 – 2005 (NSW/Siemens/Corning). 2005 he supported the market entry in submarine cable business for NORNED HVDC. 2007 he returned to NSW/General Cable to support their market entry in the same field. Since January 2010 Jörg Engicht is managing his own company DOC, to meet the increasing demand of project management competencies in a fast growing European offshore wind market.



20 Optimized Maintenance Mix for miscellaneous secondary tasks

How to define work packages and their mixture

Deutsche Windtechnik Offshore und Consulting GmbH, Technical Controlling, Christopher Schnake

Christopher Schnake studied Maritime Technologies with focus on wind energy Technologies at University of Applied Sciences in Bremerhaven from where he graduated in 2012. After that, he worked as a student assistant in the Offshore Service department at WeserWind GmbH - Offshore Construction Georgsmarienhütte. In 2013, he moved to Norway to do his Master degree in Offshore Technologies. In mid 2015 he joined the Technical Controlling Department of Deutsche Windtechnik Offshore & Consulting.



21 Fred. Olsen Windbase

Long term fixed accommodation offshore

Fred. Olsen Windcarrier Ltd., General Manager UK, David Matthews

David Matthews is the newly appointed general manager of Fred. Olsen Windcarrier in the UK. He has a background in mechanical engineering, aerospace and sales in renewable since 2008. Previously he worked in both Vestas on- and offshore and as Head of Sales at ARVEA Wind in the UK. Now with Fred. Olsen Windcarrier, David has responsibility for the company's commercial activity, including jack-up vessels, CTV's, Fred. Olsen Windbase and manpower provided through Global Wind Service. David was recently appointed to the board of RenewableUK which is the leading renewable trade organisation in the UK.



22 Customized Turnkey Offshore Solutions

From Planning to Realisation - with own Vessels, Labour, Equipment and Facilities to any offshore destination in Europe

Rhenus Offshore Logistics GmbH & Co. KG, Maritime Management M.Sc., Thore Schreiber

Since 2014, I am working at Rhenus Offshore Logistics GmbH & Co. KG as a Business Development and Project Manager, based in Bremen. Previously, I completed my Bachelor degree in International Transport Management in 2012, with exchange semesters in Auckland (NZ) and Paris (FR). I worked for Strabag Offshore Wind GmbH in Hamburg and Stuttgart from 2012 – 2013. In 2014, I completed my Master degree in Maritime Management and worked for RWE Offshore Logistics Company GmbH in the Nordsee Ost project until I started at Rhenus in August 2014.

- Bachelor Studium: Internationales Transportmanagement, Elsfleth

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WEDNESDAY, 8 JUNE 2016

3 – 5 p.m.

SESSION J

Safety (HSE) and Safety Training



Chair: Fraunhofer Institute for Wind Energy and Energy System Technology IWES Northwest, Branch Manager, Dr Antje Wagenknecht

Dr Wagenknecht studied in Bremen, Tokyo and Dubai and completed her PhD on the topic of "Floating Structures". Prior to her activities at Fraunhofer IWES North-West, she held the position of Assistant to the Chair of Logistics at the University of Bremen. Furthermore, Dr. Wagenknecht has worked in the area of "Vocational Training" at Airbus Deutschland GmbH. She has been responsible for the areas of Strategic Development and Internationalization as Branch Manager at Fraunhofer IWES North-West since 2012. In parallel, she is doing an Executive MBA in Accounting and Controlling at the University of Münster.



23 Current Developments in Offshore Safety Training

Deutsche WindGuard Offshore GmbH, Head of Offshore Safety Training, Alexander Treichel

2005 apprenticeship as carpenter; 2005-2006 Assistant to company Konrad Schwengels; 2006 – 2014 Soldier at the German Air force; 2015 Assistant to offshore safety training Deutsche WindGuard Offshore GmbH; 2016 Head of offshore safety training Deutsche WindGuard Offshore GmbH.



24 Offshore wind H&S across different EU member states

Current standards and trends in health and safety in different EU states

SgurrEnergy Ltd., Team Leader – Offshore Wind Energy, Christian Apeah

Christian Apeah is a team leader at SgurrEnergy's Hamburg office and responsible for technical advisory services for offshore and onshore wind energy projects. He is an experienced surveyor for on- and offshore wind turbines and sub stations and has been advising clients on technical matters of wind energy projects. His experience includes independent engineering services for wind energy projects in Europe and northern Africa. Throughout his practical field experience and consulting activities he is well versed in HSE issues and their significance.



25 Safe and optimised Offshore Wind Farm Operations from the perspective of a Certification and Inspection Body

TÜV SÜD Industrie Service GmbH, Head of Department Offshore Windenergie, Alexander Heitmann

Alexander Heitmann is head of the Offshore Wind Energy Department at TÜV SÜD Industry Services based in Hamburg and leads all offshore certification activities within the department. He is a highly qualified and experienced certification professional and qualified engineer who joined the company in 2011 from SGS Germany GmbH where he was Centre Manager for the Wind Energy and Solar competences. Before joining SGS Germany GmbH, Alexander Heitmann previously worked for TÜV NORD where he was the Deputy Head of the certification body for wind turbines.



26 Maritime Safety Partnerships among German Shipping Companies in Logistics and Comprehensive Protection and Safety Plans

German Shipowners' Association (VDR), Marine Director, Capt. Wolfgang Hintzsche

Wolfgang Hintzsche is a captain and master mariner, holds a BSc degree in economics and engineering, and has had 34 years of experience in shipping and shipbuilding. He has done service on mine hunters and minesweepers, bulk carriers, and on ro-ro, heavy lift and semi-container vessels for Frigga, CF Ahrenkiel and Sloman Neptun. His work experience includes positions as sales and project engineer at ELNA, area sales manager at MacGregor, managing director at Jastram, technical director at Shipyard (SET), and general manager at the Peter D.hle crewing agency. Since 2006, he has been marine director at VDR.

WINDFORCE Dinner

7 p.m. – midnight

HUDSON Eventloft

WINDFORCE Dinner

WEDNESDAY, 8 JUNE 2016

7 p.m. – midnight

at HUDSON Eventloft
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OPENING WORDS

Dr. Carsten Sieling,
Mayor of the Free Hanseatic City of Bremen
Andreas Wellbrock, Managing Director,
Wind Energy Agency / WAB e.V
Jens Eckhoff, Managing Director,
Offshore Wind Messe und Veranstaltungen GmbH

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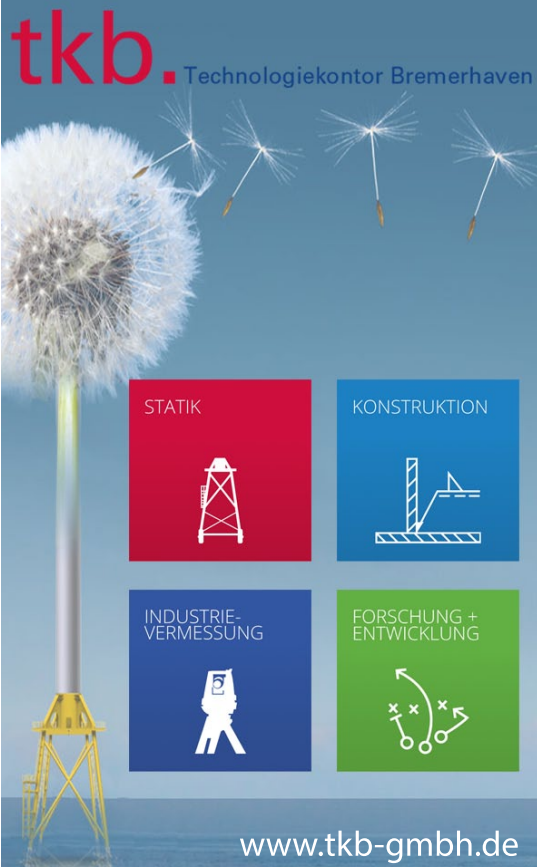


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THURSDAY, 9 JUNE 2016

8 a.m. – **BREAKFAST – SESSION C**
9.30 a.m. Foundations

C



Chair: Deutsche WindGuard Offshore GmbH, Managing Director, Sven Bicker

Sven Bicker is Managing Director of Deutsche WindGuard Offshore GmbH [DWO] and responsible for the issues of offshore engineering, structural design, simulation of wind turbines and offshore load calculations with extensive experience in dynamic simulations, strength analysis and verification of wind turbine prototypes in the field of type certification. Sven Bicker completed his studies in civil engineering [emphasis structural engineering] in 2002 at the Leibniz University of Hannover with a thesis on offshore wind turbine foundations. From 2002 to 2012, he worked as structural engineer up to General Manager at an engineering service company. Sven Bicker possesses 14 years of experience concerning structural engineering of offshore foundations, load simulation, project planning and - management and certification issues. He was largely responsible for the technical planning and execution of the German offshore wind farms alpha ventus, Borkum West 2 and Global Tech 1 and technical consultant to several further German and European offshore wind projects.



27 Innovative Manufacturing Strategies for Offshore Wind Foundations

Bilfinger Mars Offshore sp. z o.o., in cooperation with Salzgitter AG, Sales representative, R&D Coordinator, Dr Stephan Brauser

Dr Stephan Brauser studied mechanical engineering at the Technical University of Berlin; the focus of his studies was on welding and material science. After completing his PhD theses at the Federal Institute for Materials Research and Testing he worked as a research engineer for the Salzgitter research department. Since joining the Salzgitter renewables division in 2013 he has been responsible for all aspects related to the technical progress within the Salzgitter offshore wind unit and the technical sales of jacket components.



28 To boldly go where no fixed foundation can go

Floating concrete foundations as the economic alternative

Ideol SA, Business Development Manager Northern Europe, Ole Stobbe

Ole Stobbe is a trained mechanical engineer with 15 years of experience in the European offshore wind industry. Ole has held positions as head of engineering for the Butendiek and Horizont projects in Germany, worked for Hochtief's offshore construction department and supported the Neart na Gaoithe project in Scotland before joining Ideol as business development manager Northern Europe.



29 Secrets of floated GBS

Special techniques that enable broad applicability and low cost for float-out-and-sink gravity based

Seatower AS, CEO, Petter J. Karal, Norway

Petter J. Karal is co-founder and CEO of Seatower AS, a European company specializing in foundations for offshore wind. He holds an MSc in Economics from NHH in Bergen, an EU masters in business (CEMS), and an MBA from the MIT Sloan School of Management. Before Seatower, Karal co-founded and built several technology-based businesses, including offshore oil and gas company Anchor Contracting. Karal has previously served as EVP of Findexa, Business Unit Manager at Eniro, and as top management consultant at McKinsey & Company.



30 Focus on Offshore Foundations

Developments and Innovations

wind:research GmbH, CEO, Dirk Briese

Mr. Briese holds a masters degree in Business Administration and a bachelor in Political Science and English from the University of Tübingen. He is the 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 major utility swb AG Bremen for over four years. In all these activities Mr. Briese directed several, particularly strategic projects. At wind:research he is responsible for the corporate development and the realisation of exclusive studies and surveys.



THURSDAY, 9 JUNE 2016

8 a.m. – **BREAKFAST – SESSION D**
9.30 a.m. Installation

D



Chair: EWE Offshore Service & Solutions, Managing Director, Irina Lucke

Irina Lucke studied environmental science and engineering in Vechta. After working for an issuing house in Hamburg, she began working for EWE in Oldenburg in 2006. As sub-project manager she was responsible for the substation, infield cabling and some HSE management for Alpha Ventus, the first German offshore wind farm. In April 2010 she became the technical project manager of the Riffgat offshore wind farm, which was completed in July 2013. Since then she has been managing director of EWE Offshore Service & Solutions.



31 Effective installation of high-voltage cable systems offshore

Challenges to consider and lowering of risks by professional preparation

ABB High Voltage Cables AB, Installation Proposal Manager, Magnus Waldo, Sweden

Since 2012 Magnus Waldo is working as Installation Proposal Manager at ABB High Voltage Cables AB. Prior to this he was working for Dynapac Heavy Equipment AB in different roles ranging from Design Engineer over Project Manager up to Product Manager. He started his career as Design Engineer in 1994 at ABB Fläkt Industri AB and worked in the same area from 1995 to 2000 at Roxtec International AB. Magnus Waldo studied Mechanical Engineering with focus on Product Development at the Blekinge Tekniska Högskola.



32 Succeeding in offshore wind

Fred. Olsen Windcarrier Ltd., Commercial Manager, Martin Degen, Norway

Martin Degen held several positions in the energy division of Siemens AG starting in 1996. He has also worked for various other companies in the offshore wind industry since 2006. After playing a vital role in the establishment and growth of the offshore project management organisation at Siemens Wind Power (2006 – 2010) and leading GE's offshore wind activities in Norway (2010 – 2012), Martin joined Fred. Olsen in 2013 and currently holds the position of commercial manager. Martin lives in Oslo, Norway with his wife and two children.



33 VIBRO

Innovation as a collaborative effort

RWE Innogy / Nordsee One GmbH, Project Manager, Tobias Griesshaber

Tobias Griesshaber is project Manager at RWE International SE where he is responsible for delivering the foundations of the Nordsee. One offshore wind farm (installation of 54 Monopiles and Transition Pieces was completed recently).

Together with partners of the offshore wind industry he lead the VIBRO pilot project in Cuxhaven in 2013/14. He graduated from Karlsruhe Institute of Technology and ETH Zurich with a Master in Business Engineering.



34 Sandbank Substation – Transportation and Installation Challenges

Seaway Heavy Lifting, Business Acquisition Manager – Renewable Energy / Germany & Denmark, Richard van Aurich

Richard van Aurich has worked in the offshore T&I sector for over 20 years. He started at Heerema Marine Contractors as structural and marine engineer, followed by Seaway Heavy Lifting as installation engineer, project engineer and proposal manager. Since 2012 he took the role as business development manager Renewable Energy. In August 2012 Richard accepted the role to head Seaway Heavy Lifting sales office in Hamburg. From Hamburg he focuses on the offshore renewable market in Germany and Denmark.

Coffee break

9.30 – 10.30 a.m.



THURSDAY, 9 JUNE 2016

10.30 a.m. – **SESSION G**
1 p.m. Financing and Insurance



Chair: Wind Energy Agency / WAB e.V. Bremerhaven, Managing Director, Andreas Wellbrock
Andreas Wellbrock is managing director of WAB e.V. since April 2016. Forwarding merchant and graduate Transport and Logistics Engineering, he previously began his career at BLG in 1999 as Managing Director of a JV. Soon after, he became the Managing Director of BLG's industrial and production division and seaport division. He also took over responsibility for the business unit WindEnergy logistics. Having learnt the logistics business from scratch, he disposes of more than 25 years of national and international experience in the development and implementation of logistics concepts and operation. In 2013, BLG Supervisory Board appointed Andreas Wellbrock as a new member of the Executive Board and he took over responsibility for the Contract Logistics Division.



35 How many offshore projects can be financed in a year?

A new era of multiple deals

Green Giraffe Energy Bankers, Managing Director, Dr Jérôme Guillet, France

Jérôme Guillet is a founder of Green Giraffe, created in 2010 and now with 50 officers across 4 offices. Green Giraffe focuses on financial advisory services for the renewable energy sector. He has almost 20 years' experience in the energy project finance industry, with a specific focus on offshore wind over the past 12 years. Under his leadership, Green Giraffe helped close large non-recourse financings for more than 2 GW of offshore wind projects in the past six years. He is a graduate of the Ecole Polytechnique and holds a PhD in economics from the EHESS in Paris.



36 Thinking ahead into operational periods

Lessons learnt and current developments

Nordwest Assekuranzmakler GmbH & Co. KG, Managing Partner, Dr rer pol Patrick Wendisch

Patrick Wendisch has degrees in mechanical engineering and business administration. He has pursued his career in engineering and industrial insurance at Munich Re, Allianz Albingia, Hartford Steam Boiler in the United States, and in the London market. He is managing partner of Lampe & Schwartze Group and its subsidiary Nordwest Assekuranzmakler (Germany's leading renewable insurance broker). Dr Wendisch often holds lectures on onshore and offshore wind insurance.



37 Recent Developments in Project Financing for Offshore Wind

Northland Power Inc., Vice President Europe, Boris Balan, Canada

Boris Balan is Vice President, Europe at Northland Power. In his role, Boris is responsible for representing Northland in its European development activities and corporate presence. He also assists in overseeing the company's majority owned offshore wind projects — project Gemini (600MW) in the Netherlands and Nordsee One (332MW) in Germany. Boris has been with Northland since 2001. He was the lead developer responsible for Northland's first onshore wind project, and oversaw the company's expansion into Saskatchewan and Germany. Prior to joining Northland, Boris worked at the Harvard Ukrainian Research Institute and the University of Toronto. He then spent several years in Ukraine working on technical assistance projects assisting in the transition to a market economy and democratic political system, managing programs and activities for a number of international and governmental agencies. From there, he transitioned into private consulting and worked for many companies seeking to invest in Ukraine, including Northland.



38 Contingency Sizing through Quantitative Risk Assessments

Importance and benefits of detailed quantitative risk assessments to estimate the needs for contingency budgets

SgurrEnergy Ltd., Director of German Operations, Matthias Henke

Matthias Henke is in charge of SgurrEnergy's Hamburg office and works with his team on offshore and onshore wind projects worldwide. After he began his career in the wind energy industry in 1999 developing wind energy projects, he worked as technical advisor to onshore and offshore projects. His experience includes independent engineering services for wind energy projects around the world including Europe, Asia and America. Mr Henke holds degrees in electrical engineering, economics and an MBA.



39 The Offshore Wind Act

Remuneration and Financing of Offshore Wind Projects

Watson Farley & Williams LLP, Lawyer and Partner, Dr Christine Bader

Dr Christine Bader has worked as a lawyer since 2001 and is a partner in WFW's Hamburg office. As a member of WFW's international Regulatory, Public Law & Competition Group she advises project developers, investors and financing banks on energy law and permit issues. Her experience in the offshore wind sector includes a number of wind farm projects and investments in offshore grid connection. Christine's second field of expertise is on EU and German competition law where she advises clients on the full range of competition issues as well as public procurement and state aid.

THURSDAY, 9 JUNE 2016



10.30 a.m. – **SESSION H**
1 p.m. Cost Reduction and Cost Effectiveness



Chair: Ocean Breeze Energy, Managing Director, Jean Huby

Since November 2014 Managing Director Ocean Breeze Energy, Bremen and Emden
January – October 2014 Head of Hamburg Office, MAKE Consulting a/s

2011 – 2013 Chief Executive Officer, AREVA Wind

2008 – 2013 Senior Vice-President, Strategy and M&A, AREVA

2007 – 2008 Advisor to Vice-President Jacques Barrot, European Commission

2005 – 2007 Assistant to the Director-General for Competition, European Commission

Jean Huby holds an engineering degree from the Ecole Polytechnique in Paris and from the Ecole des Mines in Paris and an MSc in economics from the Paris Sorbonne University.



40 Profitability increase with WINDcenter services

Selected case studies

Dahlhoff Service GmbH, Joint Managing Director, Friedrich-Wilhelm Dahlhoff

Friedrich Wilhelm Dahlhoff

Year of Birth: 1950

Profession: Dipl.-Ing.

Educational Background: RWTH Aachen

- Metallurgy

- Material Science

- Engineering

Scholarship DAAD

- AJINOMOTO, Nippon

Present Assignment: Managing Partner

DAHLHOFF GROUP

- Dahlhoff Service GmbH, D-58313 Herdecke

- DAHHER GmbH, D-28195 Bremen

- GODEWIND CERT GmbH, D-28195 Bremen



41 LCOE road-map for Floating Wind Turbines

Using a 10MW semi submersible FOWT without tower

EOLINK S.A.S., CEO, Marc Guyot, France

Marc Guyot has a Master's of engineering from the Ecole Nationale Supérieure d'Electricité et de Mécanique. He started his career as automotive engineer for Renault. Then he joined France Energies Marines to lead R&D design topics. In 2014, he introduced technological issues at the First French Scientific Conference of Floating Wind Turbine in Marseille. His work is focused on LCOE optimization, aero-hydro-servo-structural modelling and fatigue analysis. He now works for EOLINK, a start-up which develops an innovative floating wind turbine concept.



42 Automated ground inspection for rotor blades

Digital lifecycle monitoring for rotor blades

Futureblades GmbH, Managing Director, Thorsten Zander

Thorsten Zander, born in 1973. Entry in the wind industry in 1999 for WKA-Service-Fehmarn GmbH, where he worked in various functions. Among other things as service manager, technical manager, technical sales manager and technical director.

Now he is managing director of futureblades GmbH. Responsible for development, marketing and consulting of hardware and software solutions for rotor blade services.



43 Cost reduction potentials in the offshore wind sector regarding regulations, guidelines and standards

German Offshore Wind Energy Foundation, Project Manager, Bastian Abicht

01/2016 Stiftung Offshore-Windenergie

Projektmanager

03/2015 – 12/2015 Action Renewables, Belfast

Projektmanager

02/2014 – 02/2015 Action Renewables, Belfast

Projektassistent

44 Monitoring of Offshore Structures

Possible ways of optimizing operating cost

Wölfel Beratende Ingenieure GmbH + Co. KG, Head R&D, Dr Herbert Friedmann and Engineering Director Wind energy and Structural dynamics, Dr Carsten Ebert



Dr Herbert Friedmann, Wölfel Beratende Ingenieure GmbH + Co. KG, Germany, was born in 1951. He is Head of R+D with Wölfel and is working in the field of condition monitoring and structural health monitoring since nearly 10 years. Herbert Friedmann is coordination national and international R+D-projects and has published more than 30 papers.



Dr Carsten Ebert is Engineering Director of wind energy and structural dynamics business areas at Wölfel Engineering. He joined the company in 2008 and developed with his team structural health monitoring solutions, especially for wind energy industry. Prior to that he worked as scientific assistant in Leipzig and wrote his dissertation in the field of structural health monitoring. Mr. Ebert studied civil engineering (graduate engineer and Master of Science) at university of applied sciences in Leipzig (Germany).

Lunch break

1 – 3 p.m.

THURSDAY, 9 JUNE 2016

3 – 5 p.m.

SESSION K

Geotechnics and Seabed Substrates



EnBW Energie Baden-Württemberg AG, Senior Manager, Dr Bernd Horstmann

Mr. Dr. Bernd Horstmann graduated in applied geology, followed by a thesis in the same field of interest. After university he started his career in engineering consultancy services for remediation of contaminated sites and soil investigations. After some years as project manager in the offshore cable industry, he changed into the offshore wind industry and was engaged in several projects within the German offshore wind industry, including the wind farms Alpha Ventus and Dan Tysk. Since 2012 he is working with EnBW as project manager for the implementation of EnBW's North Sea offshore wind farms and recently within the EnBW's operations and maintenance department.



45 New developments for the site investigations of offshore wind parks and related structures

Fugro Consult GmbH, Regional Project Director Onshore Geotechnics, Europe & Caspian, Dr Rolf Balthes

Rolf is an engineering geologist by education who graduated from Mainz University in 1990 with a thesis about Slope stability analysis in Rock. Following a short interim as an underground Geologist at Mount Isa Mines in Australia, Rolf went for a PhD post grad research with the German Federal Institute for Hydrology about the impact of large scale deposition of contaminated sediments on the Groundwater regime.

Rolf was then co-founder and Manager of a Geotechnical company in Leipzig and has worked since on the interface of Engineering Geology and Hydrogeology. Following the sale of the company to FUGRO, an international Geotechnical company, Rolf went through various functions in GeoMonitoring and Geotechnics in Germany and became Director and Head of FUGRO Consult Germany's Geotechnical group. In 2012 Rolf was appointed Managing Director of Fugro's French entity (Fugro GeoConsulting France SA) where he was in charge for an integrated Onshore / Offshore Geotechnical company. Since 2014 Rolf acts as Fugro's Regional Project Director for Europe-, Africa and the Caspian region.

Since 2003 Rolf has been involved in more than 50 Offshore site investigation projects both for Offshore Wind and large infrastructure projects (Tunnels, Bridges, Ports...) across Europe, both in soil- and rock environments. He was invited to help developing the German BSH Standard for Geotechnical Site Investigations and contributes regularly to geotechnical conferences with papers focussed on Offshore Site Investigations. His current position as Fugro's Regional Project Director involves Tendering and Project management for integrated geotechnical projects in the Europe-, Africa and Caspian region.



46 Alternating loads on offshore soils and structures

New ideas and developments

Fi. Geo-Engineering, MARUM – Zentrum für Marine Umweltwissenschaften / Center for Marine Environmental Sciences, Professor of Engineering Geology, Prof Dr Tobias Mörz

Professor for Marine Engineering Geology at the University of Bremen. Head of FH-IWES Group Offshore Geotechnics, Bremen as well as CEO Uni start up: Geo-Engineering.org GmbH. His interests are engineering geology and soil mechanics, offshore seabed characterization, geotechnical soil testing, glacial- und interglacial sedimentation, seismostratigraphy and 3-D visualization of the geology of construction sites, turbidite sedimentation on continental slopes and rises and sub-marine in situ tools (CPTu-GOST). Referee for: Int. Journal of Earth Sciences, ODP, IODP, Mechatronics, Senckenbergiana maritime



47 Submarine Cable Tracking

New cost-effective technology

MMT Sweden AB, Tender Manager, Philip Ljungström, Sweden

Ex Offshore Manager for Marine Offshore Survey projects within the Renewable and cable installation industry as well as the oil and gas industry, primarily in Europe. Ex ROV-pilot and Surveyor. Field experience with the strive to always work with the most efficient equipment to accomplish the best possible survey.

48 Riskmitigation with Historical Investigation for the Identification of Unexploded Ordnance (UXO) in the German Exclusive Economic Zone (EEZ) of the North Sea

Desktop Study Risk Assessment

Mull und Partner Ingenieurgesellschaft mbH, Deputy Head of Division of Armament Sites, Sonja Krawczyk and Project Manager EOD Services, Ralf Drewes



Sonja Krawczyk (geb. Lüpke) studied geography at the Universities of Bonn and Amsterdam/The Netherlands. Since 1997 she works at the Mull und Partner Ingenieurgesellschaft mbH (Hanover) in the environmental consulting and risk assessment of contaminated military sites and the armament industry. In 2012 she gained a master in disaster management and risk governance from the University of Bonn. Her projects are about historical investigation of unexploded ordnance (UXO) offshore and onshore and safety concepts for nature protection areas on former military sites.



Before Ralf Drewes started working at the Mull und Partner Ingenieurgesellschaft mbH (Hanover) in 2013, he worked for SeaTerra and was involved worldwide in projects in the fields of geotechnics, remote sensing and detection, geomagnetics, ground penetrating radar, UXO surveying and risk assessment, explosive ordnance disposal (EOD) incl. offshore EOD, battle area clearance (BAC). Furthermore he possesses special knowledge and experience in the field of CAD/GIS, project management, computer science and holds the Certificate to handle explosives in accordance with § 20 of the Explosives Act.

THURSDAY, 9 JUNE 2016

3 – 5 p.m.

SESSION L

Ports and Logistics



Chair: Northwest Assekuranzmakler GmbH & Co. KG, Managing Partner, Thomas Haukje

Thomas has over 25 years' experience within the insurance sector, specialising in program management, provision of technical insurance advice and providing bespoke specialist risk solutions. Specifically, Thomas' wind power experience includes acting as a key risk and insurance advisor to several turbine manufacturers and their key suppliers and global acting project developers on- and offshore for two decades, where he was instrumental in the design and implementation of insurance concepts that backed their long-term service and maintenance agreements for various turbine models.

Thomas is an internationally renowned expert in the renewable energy industry. Having held various positions in product development and customer service, Thomas is now heavily involved at Board level in placement strategies. He has passed the German postgraduate program "on-shore wind studies".

He has held the position of Managing Partner at NWA since 2008.

49 The Offshore Terminal Bremerhaven (OTB)

From planning to commissioning

Bremenports GmbH & Co. KG, Port Development, Stefan Färber and BIS Bremerhavener Gesellschaft für Investitionsförderung und Stadtentwicklung mbH, Project Manager Green Economy, Annette Schimmel



Stefan Färber studied law at the University of Göttingen in Germany and completed his practical judicial training at different institutions in Oldenburg, Bremen and Sydney/Australia. After the second state examination, Mr. Färber started in the legal department of bremenports GmbH & Co. KG in Bremerhaven in early 2009. After being Management Assistant at bremenports for two years, he now works in the field of Port Development and spends most of his time managing different development projects, e.g. the procurement processes for the new Offshore-Terminal in Bremerhaven.



Annette Schimmel studied business and economics in Dortmund and Bremen. After several years of experience in research and science she worked for the Bremerhaven business development company. In 2012 Mrs Schimmel joined BLG LOGISTICS GROUP in order to support the application for the operation of the planned Offshore-Terminal Bremerhaven (OTB). Right now Annette Schimmel is responsible for the development and commercial exploitation of a sustainable industrial area next to the OTB.



50 Heavy-Load Logistics – from a Practical Point of View

The crucial items to be considered

Dr Möller GmbH / IMS Nord, Director Offshore Engineering, Carsten Engel

Carsten Engel holds academic degrees as master mariner in global trade and transport management engineer. Before he took up his present position he gained professional experience in heavy lifting and container ocean freight. Several years in managerial positions in the shipbuilding industry were followed by positions as managing director in the field of global supply chain management and maritime logistics. Since 2011 he has been responsible for the offshore engineering division of Dr Möller / IMS Nord.



51 The influence of changes in the logistic concept (e.g. harbours, offshore site and logistics) in relation to weather conditions on site

Reduce offshore costs with strategical planning of weather depending time schedules

Fraunhofer-Institut für Windenergie und Energiesystemtechnik IWES Nordwest, Research Associate, Dirk Bendlin

Dirk Bendlin joined Fraunhofer IWES in 2015. As a research associate his field of expertise is the project risk management during T&I and O&M. Before he was part of the offshore project team at Siemens since 2011. The planning and execution of the first offshore wind projects in Germany formed his expertise. As a Technical Project Manager he was responsible for all engineering aspects of the projects. Several risk workshops and risk mitigation measures completed his experiences. Ahead those offshore experiences he was working at Siemens in Sales as a supplier for onshore wind since 2007.



52 Demands to modern Offshore Base-ports

Efficiency through standardization and process optimization

SeaRenergy Offshore Holding GmbH & Cie. KG, Manager QHSE & Project Engineer, Hendrik Drossmann

since 01. February 2016: Manager HSEQ & Project Engineer

SeaRenergy, Hamburg / Germany

01. May 2011 to 31. December 2015: HSSEQ Manager & Quality Manager

08. September 2005 to 30. April 2011: Seafarer Deck Cadet to 3rd Officer

Education:





CAPACITY OF OFFSHORE WIND TURBINES IN THE GERMAN NORTH AND BALTIC SEAS



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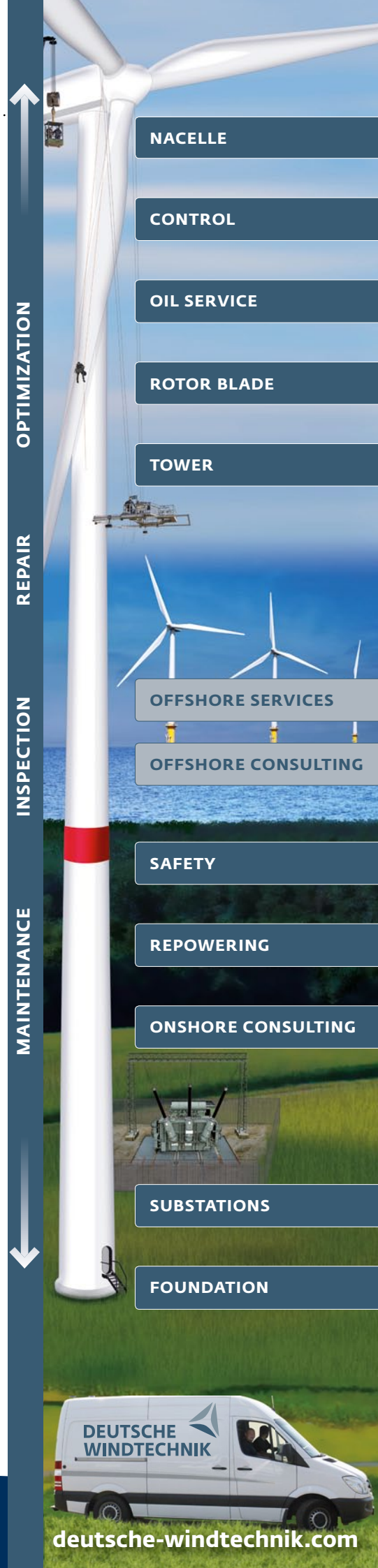
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Published by:
Windenergie Agentur WAB e.V., Andreas Wellbrock
Offshore Wind Messe und Veranstaltungen GmbH,
Jens Eckhoff

Editors: Philipp Wolff, Jagoda Jaworski

Design and layout: bigbenreklamebureau

Photos: Jens Meier, wpd AG / Paul Langrock,
Jens Weyers

Coverphoto: wpd AG / Paul Langrock

Printed by: Müller Ditzen AG





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Hattingen	54° 11'	7° 52'	2,8	2,4	0,5	0,0			
Gröfzer Vögelstein, Loh-Tm	54° 02'	8° 29'	3,3	2,9	0,5	0,0			
Quaden, Stadtschiff	53° 52'	8° 42'	3,3	2,9	0,5	0,0			
Alte Weier, Loh-Tm	53° 52'	8° 08'	3,3	2,9	0,5	0,0			
Reimerswerder, Alte Loh-Tm	53° 52'	8° 08'	3,3	2,9	0,5	0,0			
Wilhelmswerder, Alte Loh-Tm	53° 52'	8° 08'	3,3	2,9	0,5	0,0			
Langenort	53° 42'	7° 30'	3,2	2,8	0,5	0,0			
Norderney, Riffal	53° 42'	7° 08'	2,8	2,4	0,5	0,0			
Borkum, Fischerstele	53° 35'	6° 45'	2,7	2,4	0,4	0,0			
Borkum, Ostfriesische	53° 20'	7° 11'	3,6	3,2	0,5	0,0			

24
hours
a day

7
days
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