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The German government and the general public are ignoring the global megatrend
- ▶ **Your sponsorship at the 2017 WINDFORCE Baltic Sea event**
Conference on 8 and 9 February in Tallinn /Estonia
- ▶ **Goodbye Radisson Blu, hello ATLANTIC Hotel Universum**
A new venue for WAB's social get-togethers in 2017



Offshore reduction goal already achieved in 2016

The self-proclaimed goal of achieving a 40 percent reduction in offshore power generation costs by 2020 compared to 2010 has already been achieved or exceeded. While Roland Berger's recent study points out that the Borssele I and II offshore projects in the Netherlands are achieving an earlier and much greater cost reduction than anticipated (by a healthy 54 percent compared to 2010), in Denmark's Baltic Sea region Vattenfall is setting new standards. It has been awarded the contract for the 600-megawatt Kriegers Flak project, its cost of 4.99 cents/kWh currently being the lowest anywhere in the world for an offshore wind power plant. "What a superb achievement" is what many a politician will now be saying. Indeed it is, because costs are moving in the right direction along the entire value-creation chain. The cost of 4.99 cents/kWh is clearly not a yardstick for the upcoming tendering round in Germany. The reason is that prices will have to be in line with framework conditions and it is here that projects differ considerably. Alongside water depth and distance to the coast, expansion volumes and the collateral required have a significant influence on costs.

And onshore? Tenders are to be issued from May 2017. We already have 25 years of market development behind us with regard to onshore. Yet we can hardly expect to make the substantial cost reductions here that we can with offshore. But



Andreas Wellbrock, Geschäftsführer WAB e.V.

it is much more exciting to consider what will happen to those turbines no longer be covered under the Renewable Energies Act as of 2021 – will it spell the end of life for them? Operators of these turbines are looking for new business models to continue operating. Should the direct marketing of electricity from turbines prove not to be economically viable, it must be assumed that these old turbines will be decommissioned – with consequences for the government's expansion goals. An already too low expansion volume of 2,500 megawatts per year would then be reduced by the annual decommissioning of roughly 2,000 megawatts and more.

In my opinion the government would be well advised to follow the global megatrend of an accelerated move towards renewable energies and to be at the forefront. As a leading industrial nation, we could make our contribution to climate protection in an exemplary and honest way, and at the same time create new prosperity through successful structural change.

Best wishes,
Andreas Wellbrock

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DATES

| | |
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| 7 December 2016 | WAB members meeting, Bremerhaven |
| 1 February 2017 | WAB social get-together, Bremen |
| 8 – 9 February 2017 | WINDFORCE Baltic Sea, Tallinn (EST) |
| 29 March 2017 | WAB social get-together, Bremen |
| 29/30 March 2017 | WAB introductory seminar, Bremen |
| 9 – 11 May 2017 | WINDFORCE, Bremerhaven |
| 6 – 8 June 2017 | WAB joint stand at Offshore Wind Energy, London |



Obituary

Torsten Thomas

Torsten Thomas, our long-serving and highly respected writer, has suddenly and unexpectedly passed away. Many in the wind industry knew Torsten Thomas. He worked with WAB and our network for many years; in particular he supported our newsletter as a freelance writer. It was only two weeks ago that he conducted the interview for this issue of the newsletter.

We have lost not only a respected colleague, but a person who was a driving force and advocate of renewable energies, and a campaigner for wind energy who familiarised himself quickly and expertly with the most diverse of topics. His writing was intelligent and knowledgeable.



We will miss him greatly and wish his family, friends and acquaintances much strength at this difficult time.

Obituary

Karsten Behrenwald, chairman of IG Metall Bremerhaven and SPD city councillor, has died

We and the wind energy industry have lost an important and energetic fellow campaigner, an open and fair consultative partner, and a committed politician and trade unionist who had the courage to express his convictions regardless of how critical the issue. He stood up for the interests of wind energy businesses

in Bremerhaven and campaigned on behalf of workers employed in the industry.

Karsten Behrenwald passed away on the night of 14 November 2016 at the age of 56. We are devastated by his sudden death and will sorely miss his counsel and expertise. We



wish to convey our condolences to his family, friends and acquaintances and hope they will find solace and strength at this difficult time.

Interview with Rainer Heidorn and Malte Neuendorff

Surprising effects in the electricity market

The expansion of renewable energies is leading to a fall in electricity prices. Within just a few years market prices have more than halved at the electricity exchange. This presents not only the major electricity companies with enormous problems; it is also open to question whether the continued operation of old wind turbines is worth it after funding under the Renewable Energies Act comes to an end. Lawyer Rainer Heidorn and electricity market expert Malte Neuendorff shed light on the mechanisms involved. Both work for the KPMG Rechtsanwaltsgesellschaft law team.

WAB: Prices at the exchange have literally hit rock-bottom. Why is this?

Neuendorff: That's easy to explain. With a few exceptions, electricity isn't storable and it's a matter of supply and demand of course. For example, the demand for electricity at weekends and when there are public holidays is very low. At the same time, photovoltaic and wind energy plants can feed in large amounts of electricity that create no marginal costs for their production – in contrast to conventional power plants. Prices can then fall below zero on occasions and someone gets money for the power take-up. For some large conventional power plants, these periods are too short for them to shut down completely, so they still produce a minimum of electricity even if they have to pay for supplying or selling power. It works this way only because renewable energies receive a subsidy for the energy generated that is also paid in the case of negative prices.

WAB: Wind power is putting downward pressure on prices in the north in particular.

Neuendorff: Yes, that's true for our region, but in the south of Germany it's photovoltaics. Pricing at the exchange is currently for the whole of Germany.

Heidorn: And there's also the statutory feed-in priority, which means that grid operators are obliged to buy the feed-in of renewable energy first. They then have to sell this electricity on



Rainer Heidorn heads KPMG's practice group for energy law and plant construction.

the spot market, whatever the price. This situation changes only when prices are negative. In direct marketing, renewable electricity can be marketed very economically because it has low marginal costs. Both factors lead to electricity from renewable energies squeezing conventional power plants out of the power market on account of the latter's marginal costs for fuel.

WAB: Prices are going down not only on spot markets but on futures markets too.

Neuendorff: Here we see the same effect. Price quotations for power supply in the future have gone down sharply because they are extrapolated from the current low prices on spot markets. That's why no one would now pay a high price for electricity that will not be supplied until the future. But in the final analysis it's about the security of supply. Due to the level of prices, power plants are now being shut down for economic reasons. As a result, there is a lot of talk about whether Germany would continue to have sufficient capacity. If not, it would have to purchase electricity from abroad.



Malte Neuendorff has been a senior manager at KPMG for several months. An economics graduate, he previously worked a long time for EWE and was most recently managing director of EWE TRADING, where his responsibilities included direct marketing.

WAB: Predictions and forecasts about expected fluctuations in feed-in quantities are becoming ever more precise. What impact does this have on balancing energy?

Neuendorff: That's one benefit of direct marketing. A new industry has emerged here in which an incredible amount of intelligence has come together. Short-term forecasts on feed-in have become more and more accurate and trading processes more efficient. There is enough balancing energy available to even out unplanned deviations. We're seeing a surprising effect that nobody expected. More renewable energies have come onto the market and at the same time the demand for balancing energy has gone down. This goes against earlier assumptions that fluctuating feed-in would be harder to forecast and that a large power generation system would be needed to balance out short-term deviations. Now deviations from forecasts can be adjusted in trading with a lead time of 30 minutes. It's only the last update that needs to be balanced by the back-up power system. A lot has happened in this area.

WAB: Is it likely that the feed-in priority will come to an end?

Heidorn: The feed-in priority is legally anchored to date in the European Union with the Renewable Energy Directive. But the EU Commission is currently considering putting an end to the feed-in priority to a certain extent. It is expected that a draft directive along these lines will be submitted at the end of November. The feed-in priority and the obligation to purchase green electricity are the two key elements in the boosting of renewable energies. I would consider their removal the wrong thing to do. When it comes to tendering, the players involved are already being forced to enter the market in a more vigorous way. That means more competition and greater pressure on development costs. A further point is that of quantity control, which caps expansion by designating annual volumes.

WAB: The operation or construction of power plants isn't worth it without state funding. What's the situation if wind farms are no longer remunerated?

Neuendorff: There is a lot of talk right now about the cost of generating electricity from renewable energy sources. At the present price level of around EUR 25 per megawatt-hour, it's hardly viable to continue operating old turbines. But today's low electricity prices don't motivate anyone to develop generation capacity without a subsidy.

WAB: Are there any ways of getting round this electricity price trap?

Neuendorff: We don't have a solution as yet, but there are markets that haven't been exploited so far. Reserve energy is one of them. Here, turbines could balance out fluctuations for the grid operator. Another option would be to do business with power distribution companies.

They could control turbines so that deviations wouldn't occur at all because power generation and consumption would always be equal. The challenge here lies in marketing. Until now there hasn't been enough data collected to see whether customers use electricity as planned or not. Both options are able to balance out only short-term deviations.

WAB: Are such scenarios realistic? After all, an operator wants to have at least the guaranteed remuneration.

Heidorn: The Renewable Energies Act contains some points that don't quite fit in with this and pose a problem. In the situation with fixed feed-in remuneration, the obligation to purchase power is accompanied by the duty to sell. In principle, all electricity should be offered to the grid operator, but participating in the balancing energy market is expressly forbidden. Such models will work only when remuneration under the Renewable Energies Act ends. In direct marketing, there's also a ban on the double marketing of electricity. But here the supply of negative balancing energy is allowed under certain conditions.

WAB: It's difficult to obtain green electricity from German turbines because the electricity is marketed at the power exchange. Are you suggesting an alternative form of marketing?

Heidorn: The marketing of green electricity was completely ruled out in the 2014 Renewable Energies Act. But the 2017 Act once again takes initial approaches. Under certain conditions it offers the option of marketing electricity labelled green at least as a regional product. Subsidies for that are being only marginally reduced under the Renewable Energies Act. This option is an attractive marketing opportunity for operators, at least on a small scale. Germany's Ministry for Economics and Technology has also

issued a policy document that deals in general terms with the topic of green electricity.

WAB: Nevertheless, after 20 years operators have to ask whether they can continue to operate their plants after funding has run out, and for offshore wind the initially high level of remuneration will come to an end at some point too.

Neuendorff: Wind turbine energy would have to enter the market. The problem presents itself very late with onshore wind because of its long funding periods and only then when turbines have paid for themselves. After the high initial tariffs have run out for offshore wind, the Renewable Energies Act provides a flat rate of just 3.9 euro-cents per kilowatt-hour. It remains to be seen what price is achievable on the open electricity market when funding comes to an end.

WAB: What might the price level be in the near future?

Neuendorff: There are a lot of assumptions that put this figure between EUR 30 - 35 per megawatt-hour. However, the price level will rise a little overall because during the few days or hours each year when renewables hardly feed in, electricity will be in short supply and therefore very expensive. This distorts the picture because the price level will go up somewhat whenever supply is limited. This generally expected rise in electricity prices won't work strongly to the benefit of renewable energies simply because there are so many turbines.

Heidorn: How trading in emissions rights develops is also crucial. At the moment, the prices for CO₂ certificates are very low and don't provide any incentive to return to conventional energy production.

The interview was conducted by Torsten Thomas.

The horse shies away – a report from Berlin

The German government and the general public are ignoring the global megatrend



A question for starters: What comes to mind when you think of China?

The four most important countries/regions for expanding renewable energies are China, the United States, the European Union and India – in this order. China is still considered the workbench of the world economy and is the butt of racist sentiments from leading German politicians, ridiculed for poor quality production and feared on account of its aggressive economic and foreign policy (and industrial espionage). This is the very same China that is now showing the way. The German automobile industry, which for years dismissed electric car mobility in an offhand way, is now calling on the economics minister to prevent the imposition of an electric car quota in China that would suddenly put limits on what is the most important market for Volkswagen and other manufacturers.

Equally sobering is the increasingly fear-driven view of the German energy turnaround. People in Germany speak of the country's energy turnaround as its "special path", where costs are argued over and the country is characterised as cost efficient and market-oriented (which actually refers only to the past). But in China and even the United States (a country towards which Germany always reserves for itself a certain intellectual superiority) there is one thing that is acknowledged: the expansion of renewable energies must proceed more rapidly instead of more slowly. It may be right to criticise Chinese energy policy because the building of new nuclear power plants is as poor an example for Europe as is China's absence of a public participatory culture. And yet, if Germany goes against the global megatrend, its "special path" will take it straight into the sidings.

Fatih Birol, head of the International Energy Agency, is unequivocal in his view. "We are witnessing the structural shift in global energy markets – led by renewables." In Germany this trend is being ignored by many in the political arena and society at large. Instead of looking for solutions for sluggish grid expansion, the sensible use of production peaks, or the systematic reduction of fossil "must-run" (to be precise: must-not-run) capacity, the energy system is squeezing wind energy in Germany's north into a straitjacket regarding grid expansion (in plain language: into a bottleneck). It's true that there is a lot of money going into the energy turnaround, but these are investments in the future. The debate on the true costs of fossil fuel production is largely missing as an issue of public concern.

Indeed, 2015 already marked a turning point because, for the first time, the newly installed capacity of renewable energies, primarily wind and solar power, exceeded the value of any other form of power generation. In the next five years, renewable energies will constitute more than 60 percent of growth in global electricity capacity – and whether Germany intends to be part of this trend or not is the only decision it can take on its own. At the moment we are worried that the horse will shy away.

Editor's note: This text was written before the election in the United States, but its view on the global trend remains valid.

Urs Wahl, OWIA

Invitation to the WAB members meeting

Ordinary meeting in Bremerhaven

This year, WAB's members meeting will be held on 7 December 2016 at the ATLANTIC Hotel Sail City in Bremerhaven. WAB board chairman Dr Klaus Meier and managing director Andreas Wellbrock will close the 2015 business year, review activities in 2016, and take a look at the plans WAB has for

2017. Written invitations will be sent out shortly to the main contacts at WAB's member companies and institutions. The invitations will include a special link for registering for the event. Each member company is allowed to register no more than two persons.



Your sponsorship at the 2017 WINDFORCE Baltic Sea event

Conference on 8 and 9 February in Tallinn/Estonia

WAB is organising its fifth WINDFORCE Baltic Sea for the offshore wind industry, to be held on 8 and 9 February 2017.

Become a sponsor and showcase your business at the conference

Be a sponsor and take this opportunity to present your business at the WINDFORCE Baltic Sea international conference in Tallinn. We have put together several package arrangements for you to choose from. The closing date for booking your sponsorship is 12 January 2017. You will find further information on the sponsorship plan in the link below.

Sponsorship plan

(Closing date for registration is 12 January 2017)

Event information

Dates: 8 and 9 February 2017

Place: Radisson Blu Sky Hotel in Tallinn, Estonia

Language: English

Programme: to be announced shortly

Registration



About WINDFORCE Baltic Sea

The conference on offshore wind energy in the Baltic Sea takes us this year to the Estonian capital of Tallinn. As in previous years, conference participants will gain a concise overview of current developments in the states bordering the Baltic.

Representatives from Estonia, Lithuania, Latvia, Finland, Sweden, Denmark, Poland and Germany will discuss the state of the offshore wind industry in their countries. The event will also feature a programme of lectures/presentations on legal frameworks, financing, and technical challenges. The conference will focus on the exchange of experiences.

Please address any questions to Daniela Schimrigk (daniela.schimrigk@wab.net; +49 (0)471 39177- 12) or Lisa Flissikowski (lisa.flissikowski@wab.net; +49 (0)471 39177-22).

We look forward to seeing you at the conference!

Present your company as a sponsor
Deadline: 12 January 2017
(<http://windforce.info/balticsea/>)

Save the date: Closing event of WAB's project on the "Wind-to-Gas Strategy for Bremen" is on 21 February 2017

The WAB project on the "Wind-to-Gas Strategy for Bremen" will soon be drawing to a successful close. Its findings will be presented on 21 February to the interested professional community (industry, research institutions and administrative offices). The event will include presentations by those involved in pioneering work. The use of wind-to-gas products (hydrogen and synthetic natural gas) in the transport sector will be one of the key topics.

Event information:

Date: Tuesday, 21 February 2017

Time: approx. 9.30 a.m. to 2 p.m.
(exact time still to be announced)

Place: timePort II, Barkhausenstr. 2
27568 Bremerhaven



The project is funded by the State of Bremen.



Get the offshore feeling!



► WINDFORCE Guide Baltic Sea 2017

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| Mo 09.01.2017 | Fr 13.01.2017 | Mo 23.01.2017 | We 08.02.2017 | We 8. - Th 9.02.2017 | |



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| Reservation | Material | Print | Publication | WINDFORCE Conference |
| Mo 03.04.2017 | Fr 07.04.2017 | Tue 18.04.2017 | Mai 2017 | Tue 09. - Th 11.05.2017 |



* Final size after trim - before trim + 3 mm on all edges. All sizes in millimeters. Other sizes only after consultation.

► WAB North- / Baltic Sea Map 2017

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• Mailing to all WAB Members • Mailing to the offshore wind industry after request

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| Mo 03.04.2017 | Fr 07.04.2017 | Tue 18.04.2017 | Mai 2017 | Tue 09. - Th 11.05.2017 | |



► WAB Calendar 2018

Edition 800 copies, format DIN A1, 841 mm (b) x 594 mm (h)

Circulation • at the HUSUM Wind Fair and WAB events • Mailing to all WAB Members

| size | | width x height | | 4 colours | WAB Members |
|--------------------------|---------------|-----------------|----------------|-------------------------|-------------|
| Standard Calendar Advert | | 50,5 mm x 82 mm | | 750,- EUR | 600,- EUR |
| Reservation | Material | Print | Publication | HUSUM Wind Fair | |
| Mo 31.08.2017 | Fr 04.08.2017 | Mo 14.08.2017 | September 2017 | Tue 12. - Fr 15.09.2017 | |



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2017 Offshore Wind Energy (London) and HUSUM Wind 2017 – become an exhibitor

All-inclusive package at WAB's joint stands

Event dates

Offshore Wind Energy in London
6 to 8 June 2017

HUSUM Wind
12 to 15 September 2017

2018 WindEnergy Hamburg
25 to 28 September 2018

At the request of many members, WAB will be represented with a large joint stand at both the Offshore Wind Energy event (formerly EWEA Offshore) in London from 6 to 8 June 2017 and at HUSUM Wind from 12 to 15 September 2017. Take this opportunity to present your business alongside WAB.

With the advantage of the stand's size and accompanying activities, WAB can offer an all-inclusive service package, quality design and a high marketing impact.

Become an exhibitor now

As a WAB member, you will enjoy a reduced price for your module. Booking early enables us to plan with greater certainty, which benefits all our member businesses.

In the links below you will find the most important information on participation.

▶ **Offshore Wind Energy stand plan**
(Registration deadline is 20 December 2016)

▶ **HUSUM WIND stand plan**
(Registration deadline is 25 January 2017)



WAB has already reserved an attractive space for the 2018 WindEnergy event in Hamburg. We will publish the stand plan shortly. You can already register your interest now.



Contact:

Lisa Fließkowski (lisa.flissikowski@wab.net, +49(0)471 39122)



WINDFORCE



► **BREMERHAVEN 2017**

WINDFORCE 2017, 9 – 11 MAY

Conference

- 60 international speakers
- over 400 delegates
- Maritime Wind Dinner

wab windenergie
agentur

YOUR KEY TO OFFSHORE WIND INDUSTRY!

WINDFORCE BALTIC SEA 2017, 8 – 9 FEBRUARY

Conference

- over 100 international delegates
- 30 international speakers

► **TALLINN 2017**



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www.windforce.info



WAB's Working Groups in 2017

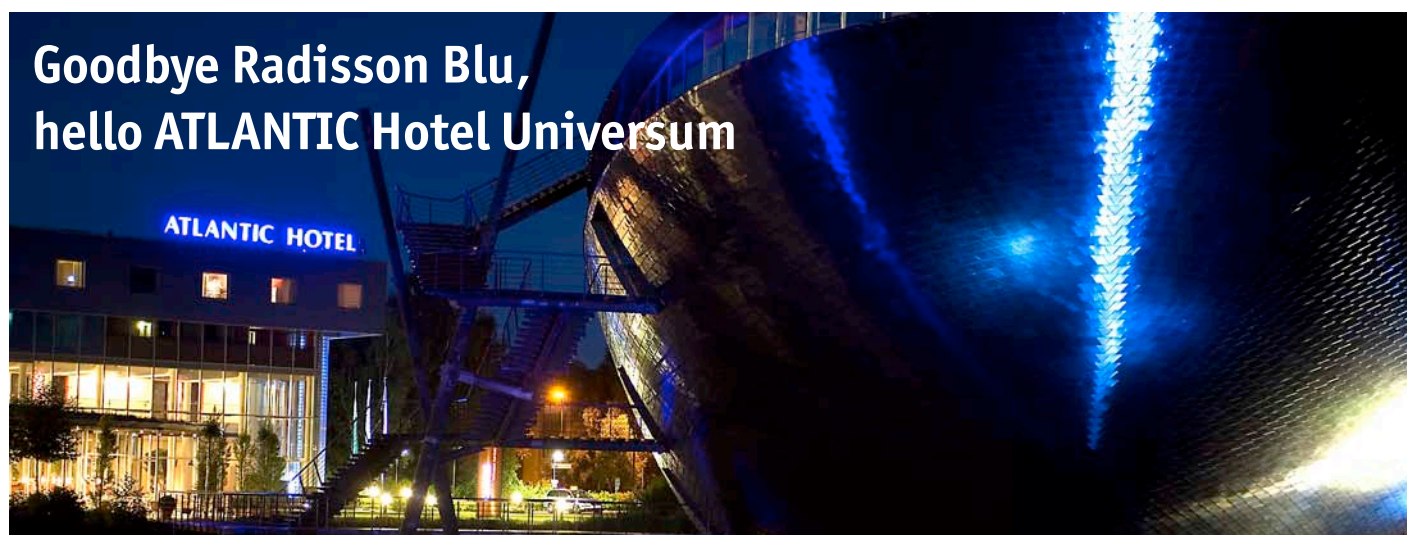
Participation is reserved exclusively for WAB members



Please note the Working Group dates for 2017:

| WORKING GROUP DATES | | WORKING GROUP DATES | |
|---|------------------------|-------------------------------|--------------------------|
| Foundation Structures & Steel Steel Construction | Thursday, 23 February | Market & Logistics | Monday, 23 January |
| | Thursday, 22 June | | Monday, 24 April |
| | Thursday, 21 September | | Monday, 7 August |
| | Thursday, 23 November | | Monday, 6 November |
| Service & Operations | Thursday, 2 February | Law | Donnerstag, 26. Januar |
| | Thursday, 27 April | | Donnerstag, 1. Juni |
| | Thursday, 10 August | | Donnerstag, 31. August |
| | Thursday, 9 November | | Donnerstag, 16. November |

Please contact Daniela Schimrigk (daniela.schimrigk@wab.net, +49(0) 471 3917712) if you are interested.



Photos: Antje Schimanke

A new venue for WAB's social get-togethers in 2017

In the coming year, WAB's social get-togethers will be held at the ATLANTIC Hotel Universum in Bremen. The hotel provides an attractive lecture room as well as a comfortable lounge area for meeting up and networking. In contrast to the previous venue, the ATLANTIC Hotel will be reserved exclusively for those taking part in the WAB social get-together.

The first social get-together in 2017 is solely for WAB members.

▶ **Further information on the social get-together concept**

Present yourself at the very heart of the industry

Our guests as well as our sponsors will benefit from the new venue. You will be able to put up your banners and mobile wall displays in both the lecture room and the spacious foyer. Take this opportunity to introduce your business or your new product/project in the form of a sponsorship. You still have the opportunity to reserve your place as a sponsor.

Those interested need simply send an email to: lisa.flissikowski@wab.net

Present yourself as a sponsor at the heart of the industry!

Dates for WAB's social get-togethers in 2017

- Wednesday, 1 February 2017, from 6 p.m. (exclusively for WAB members)
- Wednesday, 29 March 2017, from 6 p.m.
- Wednesday, 23 August 2017, from 6 p.m.
- Wednesday, 18 October 2017, from 6 p.m.



Invitation to the second Industry Symposium on 01.12.2016 in Bremen

“Logistics for the Windenergie – Challenges and Solutions for Modern Wind Energy plants”

The LogDynamics LAB (university of Bremen) organizes in cooperation with WAB, ISL, BIBA and Wirtschaftsförderung Bremen the second Industry Symposium on 01 December 2016 in Bremen: “Logistics for the Wind Industry – Challenges and Solutions for Modern Wind Energy Plants”.

Event dates

Date: Thursday, 01 December 2016
Time: 09:00 a.m. – 05:00 p.m.
followed by a get-together
Price: 150,- EUR incl. value added tax
Place: BIBA – Bremer Institut für Produktion und Logistik GmbH
Hochschulring 20
28359 Bremen

More Information:

- ▶ [2nd Industry Symposium](#)
- ▶ [Programm](#)
- ▶ [Registration](#)

In case of any questions please contact the LogDynamics Lab (university of Bremen):

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Pile-driving work at offshore wind farms does not have negative impact on porpoise stocks

Civil association Offshore Forum Windenergie (OFW) publishes a detailed study

A study focusing on the behaviour of porpoises during pile-driving work for the construction of offshore wind farms in the North Sea has been published for the first time. “The study shows that offshore wind farms do not have any negative consequences for the porpoise population”, said Dr Ursula Prall, board chairman of Germany’s Offshore Forum Windenergie (OFW). Details gathered from foundation installation together with data from underwater noise

measurements underpinned the investigation. Porpoise detectors and aircraft were also used for recording the presence of porpoises. The comprehensive set of data is a world first and was evaluated within the framework of a project running over two years and summarised in a detailed study.

- ▶ [Download the study](#) (abridged version in German)
- ▶ [Download the study](#) (full version in English)



Enterprise Europe Network and WAB sign cooperation agreement

WAB members profit from a European advisory network

WAB has been collaborating with the Enterprise Europe Network (EEN) Bremen since September 2016. This benefits all WAB member businesses who from now on will be directly informed about what Europe's largest advisory network has to offer and can gain access to international cooperation exchange opportunities.

Contact partner:

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DD Die Denkfabrik Forschungs und
Entwicklungs GmbH
Tel.: +49 (0)421 20156 0
Email.: p.rodenberg@een-bremen.de
Web: www.een-bremen.de

 **Press release**



*Dr Günther W. Diekhöner (L.) and Andreas Wellbrock
at the signing of the agreement.
Photo: Enterprise Europe Network*

Taiwan counts on wind power

Business delegation on study visit

By 2025, Taiwan intends to achieve a capacity of three gigawatts in the offshore sector alone and to decommission three nuclear power plants. From 2018, a first large offshore wind farm (Hai Long) with a capacity of 700 megawatts is expected to be constructed in water depths of 30 to 50 metres off Taiwan's west coast.

The Bremen delegation, comprising representatives of industry, research, politics and administration, sought contacts amongst local businesses and exchanged information about current developments at the first German-Taiwanese offshore conference in Taipeh. WAB managing director Andreas Wellbrock accompanied the delegation and called for close cooperation between German and Taiwanese businesses. Participants of the six-day tour had to stick to a tight schedule, visiting the Taiwan Power Company, the Bureau of Energy, various project developers, port facilities, logistics providers and shipbuilders.



Germany serves as a large role model for this small country. Remuneration in Taiwan was adapted to the model in Germany's 2014 Renewable Energies Act and even the acceleration model was adopted. Initial demonstration projects are currently under way. At the moment two pilot plants are under construction and two foundations have already been erected. To meet ambitious goals, Taiwanese businesses are showing a keen interest in German engineering achievements and the expertise gained from experience. Its democratic system, legal certainty and the country's very good level of education and high language competence provide a solid base for Taiwan's future activities. The time seems right for testing market entry.



Looking back at the 2016 WindEnergy Hamburg event

The trade fair proved worthwhile

WAB managing director Andreas Wellbrock issued a positive verdict on WindEnergy: "Taking part in WindEnergy in Hamburg and giving member businesses the opportunity to participate was the right decision", he said.

A total of 13 joint exhibitors from six different German states were part of WAB's stand at the

leading international trade fair for wind energy in Germany. WAB was also pleased to welcome more than 200 guests at the stand's official reception.

The joint exhibitors also expressed praise for the stand: "We very much appreciate the full services that WAB offered and have already

Sign up now for the WAB stand at WindEnergy 2018!

registered for next year's stand at the Offshore Wind Energy event in London", said Dirk Halfpap from Steelwind Nordenham.

Further information on the next joint stands



Lower Saxony's economics minister Olaf Lies (4th from L.) talks with Andreas Wellbrock



[Impressions](#)

[Short video](#)

A look back at WAB's 2016 Legal Offshore Day in Bremen

Optimised event format was well received

More than 60 lawyers and industry specialists took part in WAB's annual Legal Offshore Day in Bremen. Next to specialist talks, participants exchanged information in workshops on current issues concerning "2016 Renewable Energies Act/Wind at Sea Act", "Back to Back Agreements: Subcontractor Structures" and "Compensation Claims against Grid Operators and O&M Contract Structures". The specialist symposium was designed and planned by WAB's Working Group on Law.



► Programme



NEW MEMBERS



CEZ Deutschland

With a market capitalisation amounting to around EUR 8 billion, CEZ Group belongs to Europe's ten largest energy concerns. The business operates a wide portfolio of power plants located particularly in central Europe and to a lesser extent in southeastern Europe and Turkey, including Europe's largest onshore wind farm in Romania. CEZ has considerable future ambitions for the growth of wind energy, onshore and offshore, and particularly in the German market. By 2020, CEZ intends to make investments of up to EUR 2 billion in renewable energies, new energy technologies and innovative solutions for clients.

www.cezdeutschland.de



convent energy

Manpower in the wind energy industry: convent energy offers solutions for your business. With offices in Oldenburg, Bremerhaven, Hamburg and London, convent energy specialises in individual personnel solutions and provides experts and skilled workers for every challenge to be met in the planning, installation and maintenance of wind power projects as well as the manufacturing of turbines and components. With its permanent staff and flexible specialists, convent energy offers intelligent solutions for the varying needs of planners, manufacturers, operators, and technical service providers. Its unique market position ensures the availability of a large network of experienced project managers, technicians, climbers and assembly workers for worldwide deployment, onshore and offshore. Adherence to the strictest international safety standards and fast reaction times are always guaranteed through finely tuned equipment and storage management, proactive certification and a highly experienced implementation team.

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Fraunhofer IFAM

Fraunhofer IFAM is one of Europe's most prominent independent research institutions in the field of adhesive bonding technology and surfaces, shaping and functional materials. Solutions developed at the institute are used in a wide range of industrial applications. For the wind energy sector, Fraunhofer IFAM develops technologies for the automation of bonding, painting and joining processes and develops methods for surface characterisation and preparation. Furthermore, IFAM is active in damage analysis and the development and evaluation of corrosion protection concepts.

www.ifam.fraunhofer.de



GeoSea

Part of the DEME Group, GeoSea is the leading provider for the installation of offshore wind farms as well as the turnkey installation of turbine infrastructure, making it a specialist in complex and innovative offshore engineering projects. GeoSea provides solutions for foundation work, port construction, decommissioning and assembly work. With its many years of wide-ranging experience with all types of hydraulic projects and with its offshore fleet, GeoSea develops optimal solutions for meeting any challenge in close cooperation with its clients. GeoSea has at its disposal and operates a fleet currently comprising seven installation ships, ranging from the jack-up vessel "Zeebouwer" to the DP2 jack-up vessel "Innovation".

www.deme-group.com/geosea



Hempel Shipping

HEMPEL SHIPPING was founded in 1995 by Christoph Hempel in Bremen as a privately owned shipping company. It undertakes the general and technical management of its own fleet and also offers this service for its clients' ships.

www.hempel-shipping.de



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The WP Group is an expert, independent full-service supplier and personnel service provider for wind power projects, supporting clients from planning to ongoing operations. Through preventive maintenance and timely repair, WP Group ensures that machines and plants achieve a long-life and long-term profitability. Effective solutions help to avoid lasting downtimes and high costs. WP Group's services include planned and condition-based maintenance, troubleshooting, periodic inspections and non-destructive testing, inspections according to DGUV V3, rotor blade maintenance, repairs and documentation. WP Group works in conjunction with the International Qualification and Training Center (IQTC) to provide tailor-made programmes for vocational training and qualification. The IQTC is an independent training provider authorised by the TÜV Rhineland Academy and is a certified training body in (workplace) safety and health and environmental protection.

www.wp-group.com.de

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