CONFERENCE PROGRAMME
HAMBURG OFFSHORE WIND CONFERENCE
7 – 8 February 2012
Dear Ladies and Gentlemen,

We are witnessing the very start of something very big. Offshore wind is exciting technically, commercially, environmentally, strategically and politically. It is a way for crowded countries to produce their own electricity from their own indigenous resource, cleanly and securely. Each country owns its own wind – or perhaps no one owns the wind!

There is a lot to do. At present electricity generated from offshore wind is expensive, which is hardly surprising since we are just starting its development. That’s the bad news. The good news is that there is enormous scope for reduction in cost and therefore price. The scope for reduction is not only in capital and operating cost. It is also in streamlining the regulatory and permitting processes and reducing the perceived financial risks and hence the cost of debt. All these matters will be discussed at HOW.

Offshore wind provides a fascinating interface of three industries: wind, offshore oil and gas, and maritime which can all learn from each other’s experience. The GL Group has a rich heritage in all three and is proud to be the host of the conference. Hamburg has become a centre for this new hybrid industry and is therefore the perfect venue.

I hope and expect that the next two days will be both inspiring and good fun!

Dr Andrew Garrad
President
GL Garrad Hassan
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9.00 a.m.  Registration and coffee

Welcome address and key notes

10.00 a.m.  Dr Andrew Garrad (GL Garrad Hassan)
10.15 a.m.  The transformation of the energy system is underway – what is the status of offshore wind energy?
            Torsten Bischoff (BMU)
10.30 a.m.  Chances, challenges, changes
            Dr Klaus Rave (GWEC)

TOPIC 1: Market environment – panel discussion

10.50 a.m. Chaired by Hanne May (neue energie)
            Dr Hans Bünting (RWE Innogy GmbH)
            Sven Utermöhlen (EON Climate & Renewables)
            Ronny Meyer (Windenergie Agentur Bremerhaven)
            Dr Ursula Prall (Offshore Forum Windenergie)
            Jan Rispens (Renewable Energy Cluster Hamburg)
            Torsten Staffeldt (Member of the Bundestag)

12.00 p.m. Lunch break and networking
TOPIC 2: Progress of current offshore projects in Germany
1.30 p.m. Chaired by Dr Helmut Klug (GL Garrad Hassan)

Status and outlook of OWF Borkum West II
Alexander Spitzy (Trianel)

Progress of the building of the first commercial offshore wind farm in deep water in the North Sea: BARD Offshore 1
Jürgen Kaiser (BARD Engineering)

Global Tech I getting a billion debt in a challenging environment
Tim Kittelhake (Global Tech I Offshore Wind)

First operational experience of EnBW Baltic 1 offshore wind farm
Dr Werner Götz (EnBW Kraftwerke)

2.55 p.m. Discussion

3.10 p.m. Coffee break and networking

TOPIC 3: Future offshore projects in Germany
3.40 p.m. Chaired by Michael Hotze (GL Garrad Hassan)

DanTysk: challenges and rewards of a German offshore wind project
Holger Grubel (Vattenfall)

Sandbank in the Vattenfall Cluster
Claus Wattendrup (Vattenfall)

Looking for new ways: OWP Butendiek
Dr Gernot Blanke (WPD)

Riffgatt
Wilfried Hube (EWE)

General information of RWE Innogy projects NSO and IN1
Dr Friedrich Koch (RWE Innogy)

5.05 p.m. Discussion

Networking event

6.30 p.m. Conference dinner at the International Maritime Museum
Conference dinner speech: Pekka Paasivaara (Germanischer Lloyd)
Conference Day 2

8.30 a.m. Registration and coffee

**TOPIC 1:** Contracts and investment risks
9.00 a.m. Chaired by Colin Morgan (GL Garrad Hassan)

- SWMs campaign for extension of renewable energies: risk-sharing in offshore wind projects
  Dr Thomas Meerpohl (Stadtwerke München)
- Legal pitfalls in offshore supply and installation contracts
  Dr Christian Knütel (Hogan Lovells International)
- Insurance protection for offshore wind projects – meeting investors’ demands
  Dr Patrick Wendisch (Nordwest Assekuranzmakler)
- Offshore wind – risks and solutions from a reinsurer’s perspective
  Dr Tobias Büttner (Munich RE)

10.15 a.m. Discussion

**TOPIC 2:** Wind farm financing – presentations and panel discussion
10.30 a.m. Chaired by Joanna de Montgros (GL Garrad Hassan)

- Risks, costs and savings; financial risks and efficient solutions for offshore wind financing
  Eriks Atvars (Unicredit)
- Success factors for offshore wind financing
  Michael Suppan (Deutsche Bank)
- Offshore wind project finance – where will the market go?
  Jérôme Guillet (Green Giraffe Energy Bankers)
- Facilitating investments in renewable energy – a promotional bank’s perspective
  Tilmann Seibert (European Investment Bank)
- Bankability of offshore wind supply contracts
  Dirk Mous (NIBC Bank)
- The role of ECAs and promotional banks in project financed offshore wind farms
  Peter Schäfer (KfW)
- Offshore wind and an outlook on project finance
  Heiko Ludwig (Nord LB)

11.15 a.m. Panel discussion

12.00 p.m. Lunch break
TOPIC 3: Turbines, vessels and supply chain
1.30 p.m. Chaired by Mike Wöbbekeing (GL Renewables Certification)
Next development steps in turbine technology for offshore – REpower and the European offshore market
Dr Axel Birk (REpower)
HOW to build the V164 7.0 MW
Uffe Vinther-Schou (Vestas)
Foundations for offshore wind – interfaces is the key issue
Per Bull Haugsøen (OWEC Tower)
Interfaces – keep it simple
Bart de Poorter (GeoSea)
Paul Gibson
(Marine Projects International)
Moving offshore wind installations forward with high-performance heavy-lift jack-up vessels
Dr Carsten Heymann (HGO InfraSea Solutions)
Supply chain shortage in cables – myth or reality?
Thorsten Schwarz (Norddeutsche Seekabelwerke)

3.25 p.m. Discussion
3.40 p.m. Coffee break and networking

TOPIC 4: Research and future development
4.10 p.m. Chaired by Dr Lars Landberg (GL Garrad Hassan)
Offshore wind energy in Northern Germany
Prof. Dr Torsten Faber (Wind Energy Technology Institute)
Two-bladed offshore wind turbines – review and outlook
Prof. Peter Dalhoff (Hamburg University of Applied Sciences)
Offshore-specific wind characteristics
Dr Bernhard Lange (Fraunhofer IWES)
Underwater noise mitigation during piledriving
Lutz Mertschat (MENCK)
Offshore wakes modelling and data interpretation
Dr Hans E. Jørgensen (Risø DTU)
Recent advances in design of offshore wind support structures
Graeme McCann (GL Garrad Hassan)

5.50 p.m. Discussion
6.05 p.m. Closing
Dr Helmut Klug (GL Garrad Hassan)
Dr Andrew Garrad

Andrew Garrad has been involved in wind energy for more than 30 years and founded Garrad Hassan in 1984. In 2009 GH merged with Germanischer Lloyd to form the world’s largest renewable energy consultancy. Dr Garrad is the President of this new business.
The transformation of the energy system is underway – what is the status of offshore wind energy?

Chances, challenges, changes
TOPIC 1

Market environment – panel discussion

Chaired by

Hanne May
neue energie

· University degree (MA) in German literature, history of art and journalism


· Publications and presentations: co-author of the book "Grünes Geld" ("green investments") (2003 and 2005), articles for newspapers, magazines and books, lectures and moderations at various events at national and international level.
Hans Bünting is currently the Chief Financial Officer for RWE Innogy GmbH, which is part of the RWE Group and one of the fastest growing renewable energy businesses in the world. Hans has gained 15 years of experience in the energy business, where he has covered a wide spectrum of disciplines including power generation, energy retailing, trading and risk management. He has held a number of different management functions throughout his career within RWE including Head of Risk Controlling at RWE Energie AG, Vice President at RWE Trading GmbH for Finance and Risk Controlling and Vice President at RWE AG for Risk Management.

Sven Utermöhlen has been CEO of the group affiliate E.ON Climate & Renewables Central Europe GmbH since 2008. In his role he is responsible for the whole E.ON renewables project pipeline and wind plants on- and offshore in operation in the Central Europe region, i.e. Germany, Poland and France. Sven Utermöhlen studied geophysics and worked within his former employments at Royal Dutch/Shell in the oil and gas business and as a consultant for the Boston Consulting Group. He started his career within E.ON back in 2006 as CEO of the affiliate E.ON Energy Projects, then being responsible for projects within the renewables sector as well as the cogeneration business.
Ronny Meyer is currently working as Managing Director of the Wind Energy Agency. Previously, Ronny worked as an Analyst for Renewable Energies and Utilities at the Boston Consulting Group (BCG). He was a member of BCG’s energy practice core group and acted as Sustainability Energy Technologies Topic Champion. Ronny focused on projects at all steps of the value chain in the energy and sustainable development arena at European and international level. Prior to BCG he worked as a project leader at energy & meteo systems GmbH where he participated in applied research projects and developed software within the sector of renewable energy, mainly wind energy. He coordinated and led research and development projects in wind power forecasting for German and international transmission system operators. Ronny Meyer studied physics at the University of Oldenburg, Germany. He holds a diploma for Natural Science with a minor in Computer Science.
Dr Ursula Prall
Offshore Forum Windenergie

Dr Ursula Prall is a partner with Kuhbier Rechtsanwälte law firm with a strong focus on legal consultancy in the area of offshore wind energy. Since 2004 she has worked for Offshore Forum Windenergie, an association of project developers, and since 2007 as its Managing Director.

Jan Rispens
Renewable Energy Cluster Hamburg

Jan Rispens studied electrical engineering at the Technical University of Enschede in the Netherlands. From 1993 to 2000 he was a campaign coordinator for Greenpeace in Germany, working on climate change, energy efficiency policy and renewable energy. After that he was engaged as a project manager for offshore wind at the Deutsche Energie-Agentur GmbH. From 2002 until 2010 he was Managing Director of the Windenergie-Agentur Bremerhaven/Bremen e.V., a wind energy industry network in Northwest Germany. Since 2011 he has been Managing Director of the Renewable Energy Cluster Hamburg.
Torsten Staffeldt
Member of the Bundestag

Born 7 February 1963 in Bremen, married and father of four children. Apprenticeship as a ships-mechanician, degree in mechanical engineering at Hochschule Bremen (Dipl.-Ing.), several job experiences in food industry and space technology, 1998 company founding, GASEX Technology GmbH, working in compressed air technology, member of the Free Democratic Party of Germany (FDP), since 2009 member of the Bundestag. Member of the Committee on Transport, Building and Urban Development, rapporteur on shipping and ports.
TOPIC 2
Progress of current offshore projects in Germany

Chaired by

Dr Helmut Klug
GL Garrad Hassan

Helmut Klug is General Manager of GL Garrad Hassan Deutschland GmbH with 21 years of wind energy experience with particular responsibilities for technical due diligence. He is also Regional Manager of GL Garrad Hassan Central Europe, Middle East and Africa. Helmut Klug joined Garrad Hassan in 2006. Previously he was Vice Managing Director at DEWI (German Wind Energy Institute). He is a GL Garrad Hassan delegate for the Desertec Industrial Initiative (Dii).
Alexander Spitzy
Trianel

Alexander Spitzy is the commercial manager for the Borkum West II project. He is responsible for all the financial and budgetary aspects of the 200 MW offshore wind project near Borkum. Prior to working for the offshore project he was part of the project development team responsible for Trianel’s 750 MW coal power plant in Lünen as well as the gas storage project in Epe. Alexander Spitzy holds a diploma degree in business administration with specialisation in corporate finance (Vienna University of Economics and Business).

Jürgen Kaiser
BARD Engineering

Jürgen started his career at Dresdner Bank in Cologne but moved very soon into the recycling business where he worked in several international management positions. 2010 he became a self-employed consultant and completed his postgraduate studies at the European Business School in Wiesbaden for sustainable real estate project development. Since May 2011 he has been the COO of the BARD Group, in charge of business development.

Progress of the building of the first commercial offshore wind farm in deep water in the North Sea: BARD Offshore 1
Tim started his career as a qualified aircraft constructor and changed in the mid-1980s into the electro-technical industry. From 1994 he held several management positions at Sommer Electronics GmbH and Diploma Plc. In 2007 he joined the wind industry as Managing Director at Natenco GmbH. Additionally, he was appointed as Board Member of the Windreich Group in 2008. Since then he has been responsible for all the technical departments of Windreich. Under his management the first offshore project of Windreich AG, the Global Tech 1 Offshore wind farm (400 MW), achieved financial close in September 2011.

Dr Werner Götz
EnBW Kraftwerke

· Technical University of Munich: Master degree mechanical engineering and PHD in thermodynamics and fluid dynamics
· TÜV Süddeutschland AG: Performance Engineer for power plant erection projects in Europe, Asia, Middle East
· 1998–2000: Operations Director for a business unit of TÜV located in Swindon, UK
· 2000–2008: EnBW AG as Managing Director of Engineering, Operations, Holdings and Finance
· 2009–2010: Managing Director and COO for the newly formed EnBW Erneuerbare Energien GmbH
· In addition since 2011: Member of the Board and Chief Technical Officer of EnBW Kraftwerke AG

Global Tech I getting a billion debt in a challenging environment

First operational experience of EnBW Baltic 1 offshore wind farm
TOPIC 3
Future offshore projects in Germany

Chaired by
Michael Hotze
GL Garrad Hassan

Michael is Head of Projects (UK and Germany) within GL Garrad Hassan, which provides Project Management Services to clients for the development of offshore wind farms.

Michael is a chartered civil engineer with over 16 years’ experience in offshore and onshore construction projects around the world.
Future offshore projects in Germany

Holger Grubel
Vattenfall

Holger Grubel has held various positions within Vattenfall and predecessor companies. Since 2007 he has been working in the area of wind as project leader for the DanTysk project and building up the project development for onshore wind in Germany. Later he has been in charge of the department for offshore wind projects of Vattenfall in Germany, among its tasks the involvement in the first German offshore wind farm "Alpha Ventus". Today he is Project Director of DanTysk, the largest offshore wind project of Vattenfall under realisation in 2012/13.

Claus Wattendrup
Vattenfall

After studying Energy and Process Engineering at Technical University of Berlin and London Business School, Claus Wattendrup has gained a broad working experience as founder of a public tendering company in the construction business as well as a management and M&A consultant in the energy and automotive industries. He has been working for Vattenfall since 2009 as Commercial Project Director for key projects like DanTysk, and is now leading Sandbank.

DanTysk: challenges and rewards of a German offshore wind project

Sandbank in the Vattenfall Cluster
Dr Gernot Blanke
WPD

- Born: 1962
- Attorney-at-Law, partner
- Studied law at the universities of Marburg, Munich and Göttingen, degree in law (state exams)
- Experience abroad: at Time Warner Inc. in New York and at the law firm of Haight, Gardner, Poor & Havens in New York
- Since 1997 Managing Director wpd think energy GmbH & Co. KG
- Since 2000 CEO wpd AG
- Chairman Offshore Forum Windenergie

Looking for new ways:
OWP Butendiek

Dr Friedrich Koch
RWE Innogy

1998–2000
Engineer, Project Manager with SAG GmbH

2000–2005
University of Duisburg

2005–2006
Group Leader Industry Plant Construction with SAG GmbH

2006–2009
Head of Grid Integration / Simulation with REpower Systems AG

Since 2009
Head of Engineering, Wind Energy Offshore with RWE Innogy GmbH

General information of RWE Innogy projects NSO and IN1
Colin Morgan is Regional Manager for UK, Ireland, Italy and Scandinavia for GL Garrad Hassan, and Offshore Wind Practice Head for the GL Group.

He has a mechanical engineering background and has worked in the wind energy industry for 24 years. In this time his work has included: wind turbine aerodynamic and structural analysis; software development; research into wake effects; wind and energy resource assessment; banks due diligence; construction management; and wind turbine inspection. For ten years he led GLGH work on offshore wind projects within a multidisciplinary department, addressing all technical aspects of offshore wind farms.
Dr Thomas Meerpohl  
Stadtwerke München

Dr Meerpohl has within Stadtwerke München responsibility for renewable energy projects within the development and construction phase. These currently being SWMs shares in Global Tech I, Dan Tysk and Gwynt y More as well as the CSP plant Andasol 3. As Managing Director (CFO) of Global Tech I Dr Meerpohl negotiated successfully the 1 billion Project Financing of Global Tech I.

Dr Christian Knütel  
Hogan Lovells International

Christian Knütel is a Partner at the Hamburg office of Hogan Lovells LLP. He specialises in advising contractors, sponsors, investors and banks in connection with the development, financing and execution of large infrastructure projects, with a special focus on the offshore wind sector.

SWMs campaign for extension of renewable energies: risk sharing in offshore wind projects

Legal pitfalls in offshore supply and installation contracts
Dr Patrick Wendisch
Nordwest Assekuranzmakler

- Diploma in Mechanical Engineering and Business Administration
- Doctorate in Macroeconomics, Growth Economic Policy
- Engineering and industrial insurance career at: Allianz, Hamburg; Albingia, Hamburg; Hartford Steam Boiler, USA; Commercial Union, London
- Managing Partner in Lampe & Schwartzke Group
- Managing Partner of Nordwest Assekuranzmakler GmbH & Co. KG – insurance broker
- Several studies for public and private projects
- Lectures in engineering insurances

Dr Tobias Büttner
Munich RE


Insurance protection for offshore wind projects – meeting investors’ demands

Offshore wind – risks and solutions from a reinsurer’s perspective
TOPIC 2

Wind farm financing – presentations and panel discussion

Chaired by

Joanna de Montgros
GL Garrad Hassan

Joanna joined Garrad Hassan in 2003 and is responsible for Independent Engineering Services in the UK and Ireland, as well as supporting other global GL GH offices. Her work mostly relates to technical due diligence services to lenders and investors of wind energy projects, but also includes ad-hoc support to project owners and policymakers on various project- and market-related issues. Over the last nine years Joanna has performed or overseen due diligence of more than 120 due diligence projects, both onshore and offshore. Joanna is a chartered engineer and member of the IMechE. Prior to joining Garrad Hassan, Joanna worked for Fortis Bank in London, financing and monitoring operation of wind energy projects. Joanna carried out her graduate training in PricewaterhouseCooper’s management consultancy business.
Eriks Atvars
Unicredit

Eriks has been with UniCredit (previously HVB) since 1995 and joined the Power and Environment team in Munich in 2001. He has worked on assignments for the Group in Hamburg, Riga (Latvia), London and New York. Eriks has been involved as originator and project manager of renewable and thermal energy projects in the UAE, Germany, Italy, Portugal, UK, USA, Poland, Bulgaria and Turkey. As a member of core transaction teams, he has been responsible for lead mandates with a total underwriting volume of more than 2.4 billion euros since 2004. Eriks is a graduate (BA with honours) of the University of Washington School of Business.

Michael Suppan
Deutsche Bank

Michael is a Vice President in the Infrastructure & Renewable Energy team of Deutsche Bank’s Asset Finance and Leasing division. He is based in London and focuses on the Group’s renewable energy activities including the offshore wind sector. Michael joined Deutsche Bank in 2008 from Citigroup.

Risks, costs and savings; financial risks and efficient solutions for offshore wind financing

Success factors for offshore wind financing
Jérôme Guillet
Green Giraffe Energy Bankers

Jérôme Guillet is the founder and Managing Director of Green Giraffe Energy Bankers (GGE), created in early 2010 and focused on renewable energy financial advisory services. He has 15 years in the energy project finance industry, including direct involvement closing most of the non-recourse offshore wind construction financings done so far, including the recent billion-euro financings for C-Power in Belgium and Meerwind in Germany. GGE has advised on more than 2,000 MW of renewable energy projects already and has ongoing mandates in seven European countries and North America.

Tilmann Seibert
European Investment Bank

Tilmann Seibert holds an Economics degree from Munich’s LM University. Following research tasks at the IFO Institute Munich and German Development Institute, he started his banking career at Germany’s KFW Group in 1979. He joined EIB in 1984 in the Rome Office and moved to Luxembourg in 1995. In 1999, he was appointed Head of Division for Lending operations in the UK, Ireland and Scandinavia. He was appointed Associate Director for his expertise in financing of Trans-European Networks in 2005, then Head of the Baltic Sea Dept. on 1 July 2007 and since 1 March 2011 he has been the Director of the Central Europe Department.

Offshore wind project finance – where will the market go?

Facilitating investments in renewable energy – a promotional bank’s perspective
Dirk Mous is the responsible team leader for all German renewable energy projects of NIBC Bank. In this function, he has originated and executed for NIBC a total of 1,650 MW of offshore wind transactions as lender and/or debt advisor. Before joining NIBC, he worked in Mergers & Acquisitions for Rothschild, Citi-group and Deutsche Telekom.

Peter Schäfer, born 1965, studied Economics at the University in Bonn. He joined DtA in Bonn in 1993 as a manager for consultancy projects in Central and Eastern Europe. In 1998 he joined the financial Co-operation division of KfW in Frankfurt. In 2001 he switched to the commercial arm of KfW (KfW IPEX-Bank), where he was in charge for conventional and renewable energy projects worldwide. 2003 he assumed the role of the head of the renewable energy team in KfW IPEX-Bank. Since then his team structured and financed renewable energy projects in an amount of more than 2.5 bn EUR. The team, consisting of seven professionals, focuses on wind on- and offshore projects, photovoltaics and concentrated solar power.

The role of ECAs and promotional banks in project financed offshore wind farms
Heiko Ludwig is heading a Pan-European project finance department of 12 originators located in London and Hanover, with a full mandate for the European renewable energy market. He has been involved in structuring and advising project finance transactions for renewable energy projects since 2004. Since then the department successfully closed various renewable energy projects across Europe, e.g. Germany, UK, France, Italy, Spain, Belgium, Sweden, Ireland and offshore. His team is currently working on several lead arranger mandates all over Europe including onshore and offshore wind, and solar PV. According to various project finance publications Nord/LB is one of the leading banks within the renewable energy sector. Heiko Ludwig has a master’s degree in political economics (Volkswirtschaftslehre) and has worked as project financier in the City of London for almost ten years, focusing on the energy sector. He joined Nord/LB in 2004 and successfully built the bank’s European renewable energy business.
Mike Wöbbeking is Head of the Certification Body at Germanischer Lloyd Industrial Services GmbH (GL), the leading certification body for wind turbines and wind farms as well as marine energy and other renewables. Mike joined GL in 2001. He has been involved in the certification of wind turbines and the development of guidelines and standards in the field of wind energy for ten years. Mike is the secretary of GL’s Wind Energy Committee and member of IEC’s TC88 as well as the CAC (Certification Advisory Committee). He actively participates therein and guides the work on terminology. Since 2011 he has been chairman of the German wind energy committee DKE K 383 (national mirror-committee of IEC TC 88) and of the European Committee for Electro-technical Standardization (CENELEC) of wind turbines CLC / TC 88.
Dr Axel Birk
REpower

Born in 1965, he started his career in the automotive industry. In 2005 he changed to REpower Systems AG as Head of Service onshore. From 2008 to 2010 he was in parallel directly responsible for O&M at the offshore wind farm Thornton Bank as Vice President for REpower Benelux.

In 2011 he took over the responsibility to develop the new offshore business. Now he is in charge of the company strategy for technical development, scope enhancement, O&M and financial support until 2020.

Uffe Vinther-Schou
Vestas

Uffe Vinther-Schou, Senior Vice President, Sales, Vestas Offshore

Uffe Vinther-Schou has been heading the Vestas Offshore sales operations globally since 2008 including the Hamburg-based German offshore sales team.

With an extensive commercial background, Uffe Vinther-Schou has played a key role in positioning Vestas in the offshore wind industry.

Next development steps in turbine technology for offshore – REpower and the European offshore market

HOW to build the V164 7.0 MW
Per Bull Haugsøen
OWEC Tower

Educated as a civil engineer at the Technical University of Norway (NTNU), Per Bull Haugsøen started his career as a research engineer in marine structures. He continued his research work in Det Norske Veritas, concentrating on offshore piled structures. He has later been involved in developing floating and fixed structures for the offshore oil and gas industry, before he founded OWEC Tower in 2004 together with his colleague Gunnar Foss. OWEC Tower concentrates on fixed foundations for larger turbines and water depths, and their foundations have so far been used for Beatrice, Alpha Ventus, Ormonde, Thornton Bank and an Alstom prototype in France.

Bart de Poorter
GeoSea

Bart De Poorter finished his civil engineering construction education in 1991. In the same year he started as Project Manager at Hydro Soil Services (DEME).

In 1993 Bart started working for Smet Tunneling. Until 2000 he mainly followed up sites as Project Manager and provided assistance with calculations and acquisitions. The next four years he worked as Area Manager.

In 2005 Bart returned to GeoSea (DEME) where he was Business Unit Manager in the OWF industry until August 2010. Since then he has also been holding the position of Deputy Manager.
Paul Gibson
Marine Projects International

Paul Gibson is the Chairman of MPI Offshore, a world leader in offshore wind turbine installation. Trained by British Steel in mechanical engineering, through the years Paul has been involved in several innovative engineering designs including heaver weighing systems, floatovers, load-outs, suspended deck girder erector and stadia roof lifts amongst others. Since late 1999 his focus has been "MPI Resolution" which he conceptually designed and which today proves to be the clients’ choice for offshore wind turbine and foundation installation.

Under his stewardship, MPI Offshore, with its suite of offshore-related equipment, has grown to be a world leader in the industry, with a track record of over 200 wind turbines.

Dr Carsten Heymann
HGO InfraSea Solutions

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

Moving offshore wind installations forward with high-performance heavy-lift jack-up vessels
Mr. Schwarz started his professional career in the Corporate Marketing and Business Development Departments of DaimlerChrysler Aerospace where he supported the global sales and business development teams as a senior researcher and knowledge management expert and was involved in the early activities of the trinational merger of three legal entities leading to what is now called EADS. In 2000 he joined the RWE Solutions Group as Head of Marketing and Sales. In this function he was responsible for the integration of the salesforces and the realisation of cross-selling achievements amongst the more than 100 legal entities of this 3.2 bn euros operation, focusing on technical infrastructure services to clients in the industrial and utility sectors. In 2003 he moved on to take on a Sales Director role in NUKEM Technologies GmbH, a highly specialised service provider for the decommissioning of nuclear installations. In this role he successfully realised the market entry in the highly competitive French and Spanish markets and grew the existing market footprint in Southeast-Asian markets. In 2009 Thorsten Schwarz joined Norddeutsche Seekabelwerke as Senior Vice President Sales, Marketing and Projects. In 2010 he was appointed Managing Director. A graduate of the University of Stuttgart, Thorsten Schwarz holds an aerospace engineering degree.
TOPIC 4
Research and future development

Chaired by
Dr Lars Landberg
GL Garrad Hassan

Lars Landberg has a PhD in physics and geophysics from University of Copenhagen (DK) and an MBA from University of Warwick (UK). Lars has worked in the wind industry since 1989, with 18 years at Risø National Laboratory and now four years at GL Garrad Hassan. At GL Garrad Hassan Lars is responsible for R&D, forecasting and training.
Prof. Dr Torsten Faber
Wind Energy Technology Institute

Prof. Faber is a skilled carpenter and studied civil engineer.

2001 to 2010 he headed the department of rotor blades and civil engineering at GL Renewables Certification.

Since 1 November 2010 Prof. Faber has been the Head of the Wind Energy Technology Institute at the University of Applied Sciences in Flensburg.

Prof. Peter Dalhoff
Hamburg University of Applied Sciences

Peter Dalhoff started his wind career in 1996 with Germanischer Lloyd (GL) in Hamburg.

In early 2010 he received the reputation as a professor for Wind Engineering at the University of Applied Sciences Hamburg (HAW Hamburg). Peter Dalhoff is a member of the European Technology Platform Wind (TPWind). The objective of TPWind is to identify areas for increased innovation, new and existing research and development tasks. On behalf of the EU, Dalhoff works as a reviewer for EU research projects in the field of wind energy.

Offshore wind energy in Northern Germany

Two-bladed offshore wind turbines – review and outlook
Offshore-specific wind characteristics

Dr Bernhard Lange
Fraunhofer IWES

Bernhard Lange is Head of Energy Meteorology, Wind Power Management and Offshore Site Assessment at Fraunhofer IWES. His main research interests for the last ten years have been wind power meteorology, offshore wind power and the integration of wind power into the electricity supply system.

Lutz Mertschat
MENCK

Lutz Mertschat received a marine engineering degree from the Helmut Schmidt University in Hamburg and went on to gain a great deal of practical experience in nautical operations. His first-hand seafaring experience on naval vessels was followed by a spell in the merchant shipping sector as a project manager working for a ship supplier company. Since joining MENCK in 2009, he has been responsible for offshore pile driving solutions in the bridges and harbours and wind farm segments. The experience he has gained in offshore wind farms includes overseeing commissioning of the largest underwater hydraulic hammer ever delivered to the Chinese market. More recently, Lutz has also taken on sales responsibility for MENCK’s underwater noise mitigation solutions.

Underwater noise mitigation during piledriving
Hans E. Jørgensen is heading the Meteorology programme in the department of Wind Energy at DTU-Risø. Meteorology consist of 38 people working with different aspects of wind conditions for wind energy applications. Jørgensen holds a PhD from DTU and has since 1993 been working at the programme of Meteorology at Risø-DTU. He has been working with remote sensing, atmospheric boundary layers models for wakes from large wind farms offshore. Furthermore Jørgensen is responsible for the strategy decision regarding research with respect to both meso-scale and micro scale modelling for wind conditions at the wind energy institute.

Graeme McCann is a principal engineer based in GL GH head office in Bristol, UK, where he leads the Turbine Loads Analysis Department. He holds a M.Eng degree in mechanical engineering and has ten years of experience working in the field of wind energy. His specific areas of technical expertise include integrated numerical modelling of offshore wind turbines and their support structures, and the analysis of wind farm wake loading effects. He is a member of the MT-01 and MT-03 committees, responsible for the development of the IEC 61400-1 (onshore) and -3 (offshore) design standards respectively.

Offshore wakes modelling and data interpretation

Recent advances in design of offshore wind support structures
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