14th HAMBURG OFFSHORE WIND CONFERENCE

OFFSHORE WIND AFTER 2020 - TENDERS AS A WAY TO REDUCE COSTS?

4 - 5 April 2017
Hotel Hafen Hamburg

Organised by Cluster Renewable Energy Hamburg and DNV GL
17:30 - 18:00 Welcome and registration
Chaired by Dr Andreas Schröter, Executive Vice President
Central Europe & Mediterranean DNV GL - Energy

SESSION OPENING

18:00 - 18:10 Jan Rispens, Managing Director, Cluster Renewable Energy Hamburg &
Ditlev Engel, CEO DNV GL - Energy
Opening remarks

18:10 - 18:20 Olaf Scholz, First Mayor of the Free and Hanseatic City of Hamburg
Welcome speech

18:20 - 18:40 Reinhard Klingen, Director General Waterways and Shipping of the
Federal Ministry of Transport and Digital Infrastructure (BMVI), Bonn

18:40 Dinner at Hotel Hafen Hamburg
8:00-9:00 Welcome and morning coffee

SESSION OPENING

9:00-9:05 Jan Rispens, Managing Director, Cluster Renewable Energy Hamburg & Ditlev Engel, CEO DNV GL - Energy
Opening remarks

9:05-9:30 Michael Hannibal, CEO Offshore, Siemens Wind Power
Opening keynote
‘Offshore wind after 2020: Cost reduction and international market development’

PANEL DISCUSSION: What will be the role of offshore wind after 2020 in the generation portfolio?

The panel discussion will take place in German, simultaneous translation is available.

9:30-11:00 Moderated by Olaf Preuß, Business editor of newspaper ‘Die Welt’

Speakers > Michael Hannibal, CEO Offshore, Siemens Wind Power
> Wilfried Breuer, Executive Board, TenneT
> Sven Utermöhlen, Director Offshore Wind, E.On Climate & Renewables Central Europe
> Jörg Kuhbier, Chairman of the Executive Board of Stiftung Offshore Windenergie
> Thorsten Falk, Department IIIB5 ‘Renewable energy in the electricity sector’, Federal Ministry of Economic Affairs and Energy

11:00-11:30 Coffee break

SESSION: Project development & financing in times of tendering procedures

11:30-13:00 Chaired by Jan Rispens, Managing Director Cluster Renewable Energy Hamburg

Speakers > Gunnar Groebler, Senior Vice President, Head of Business Area Wind, Vattenfall Tendering offshore wind energy in Germany - an operator’s view on competition and cost reduction
> Peter Schäfer, Director Team Head Wind Power, KfW IPEX-Bank
Potential effects of auctions on financing structures for wind offshore projects
> Dr Ursula Prall, Advocate/Partner, Becker Büttner Held
A new era for offshore wind power - a review from a legal point of view
> Christoph Mertens, Executive Counsel, Pan-EU Renewable Energy Business Department, Sumitomo Deutschland
The introduction of auctions - a step change in the offshore wind market
Tender mechanisms, new technologies, certification and long-term insurability - contradiction or just a challenge?
13:00 - 14:00 Lunch

SESSION: New concepts for cost reduction

14:00 - 15:30 Chaired by Tim Bakx, Managing Director Germany DNV GL - Energy

Speakers
> Volker Malmen, Managing Director / Country Manager, DONG Energy Germany
Key target for offshore-wind: cost reduction in a global context
> Norbert Giese, Vice President of Offshore Development, Senvion
Very good progress in cost-cutting for offshore wind: everywhere?
> Stefan Kansy, Director New Projects (Power Generation), EnBW
Role of a utility in auction systems - how to cooperate with supply chain and co-investors?
> Henrik Bæk Jørgensen, Head of Product Management, MHI Vestas Offshore Wind
How to make the world’s most powerful wind turbine even more competitive?

15:30 - 16:00 Coffee break

PANEL DISCUSSION: Offshore and Grid - “What are the possibilities and limitations?”

The panel discussion will take place in German, simultaneous translation is available.

16:00 - 17:30 Moderated by Ilka Groenewold Presenter and independent journalist

Speakers
> Dr Henrich Quick, Head of Offshore Projects, 50Hertz
> Alf-Henryk Wulf, Chairman of the Executive Board, GE Power
> Prof. Dr-Ing. habil. István Erlich, University Duisburg-Essen
> Dr Peter Ahmels, Head of Renewable Energy, Deutsche Umwelthilfe

17:30 - 17:40 Closing remarks
17:40 Get-together and end of conference
Opening & welcome

DR ANDREAS SCHRÖTER
Executive Vice President
Central Europe & Mediterranean DNV GL - Energy

Andreas Schröter has been appointed as Executive Vice President Advisory Central Europe & Mediterranean as of 1st February 2015 being responsible for all renewable and traditional energy advisory services. Previously he headed the world market leader Renewables Certification in legacy GL and continued in the same role following the merger of DNV and GL in September 2013. Before joining GL in 2011 he had spent more than 15 years in the telecommunications industry working for Siemens, Nokia Siemens Networks and Rohde & Schwarz where he held a variety of engineering, sales, service, management and country CEO positions.

He earned a PhD in Management with a thesis about matrix organizations from the University of Gloucestershire, Cheltenham, UK. He also holds a degree as Global Executive MBA from the IESE Business School in Barcelona, Spain.

JAN RISPENS
Managing Director
Cluster Renewable Energy
Hamburg

Jan Rispens holds a Masters Degree in Electrical Engineering from 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 dena - Deutsche Energie-Agentur GmbH, in which position he was responsible for coordinating cooperation between the German federal government and the federal states. From 2002 until 2010 he was Managing Director of the WAB - Windenergie-Agentur Bremerhaven/Bremen e.V., a wind energy industry network in Northwest-Germany. Since 2011 he is Managing Director of the Renewable Energy Hamburg cluster, with 180 members from this sector covering all stages of the value chain and offering many specialized services.
Olaf Scholz was born in Osnabrück in 1958 and graduated from Universität Hamburg with a degree in law. In 1975 he joined the Social Democratic Party (SPD) where he has held several senior positions including Deputy Chairman of the party's youth organization and Secretary General of the party (2002-2004). Currently he is Vice Chairman of the German SPD and Chairman of the Hamburg SPD. He was Member of the German Bundestag (1998-2001, 2002-2011) holding senior positions in the SPD parliamentary group and Federal Minister of Labour and Social Affairs (2007-2009). In 2001 he served as Hamburg's Minister of the Interior. Since 2011 Olaf Scholz is the First Mayor and President of the Senate of the Free and Hanseatic City of Hamburg.

Ditlev Engel brings a wealth of knowledge of the global energy industry and international leadership competence. From 2005 - 2013 he had the position of Group President & CEO of global wind turbine manufacturer Vestas. Prior to Vestas, he has 20 years of experience at coatings manufacturer Hempel A/S, of which 10 years as executive leader moving from EVP Marketing and R&D to Group President & CEO. He has degrees in business administration, finance, accounting and general management from Copenhagen Business School and INSEAD.

Ditlev Engel has been a driving force behind many global green investment initiatives, pushing the energy transition to the next level. He has been Member of the Energy Partner Network of the World Economic Forum, Advisor of the International Energy Agency, Chairman Green Growth Working Group at three consecutive G20 Summits, co-founder of the Green Growth Action Allian and Member of UN's Sustainable Energy for All.

In 2008 Ditlev Engel became Leader of the Year in Denmark. In 2009 INSEAD ranked Ditlev Engel among the world's 100 best performing CEOs measured by the fact that a CEO should create long-term value to the shareholders without losing focus on short-term performance. In Abu Dhabi in 2011 Ditlev Engel received the 'Zayed Future Energy Prize' on behalf of Vestas. He passed on the 1.5 million USD award to the NGO WindMade TM as well as to other nominated - but not winning - organisations.

Reinhard Klingen, since 2009 Director General Waterways and Shipping of the Federal Ministry of Transport and Digital Infrastructure (BMVI) Bonn, started his career as Personal Assistant of the Parliamentary State Secretary at the Federal Ministry of Transport in Bonn. Klingen, who holds a degree in law from the University of Bonn, also worked for instance from 1993 until 1998 as Counsellor for Economic and Transport Issues at the CSU Parliamentary Group in the German Bundestag and from 2000 until 2005 as Head of Division Personnel matters of the Waterways and Shipping Administration, General principles of labour, social and tariff law, occupational safety, training, further and continuous training in the Federal Ministry of Transport, Building and Housing.
Jan Rispens holds a Master’s Degree in Electrical Engineering from 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 Deutsches Energie-Agentur GmbH, in which position he was responsible for coordinating cooperation between the German federal government and the federal states. From 2002 until 2010 he was Managing Director of the WAB - Windenergie-Agentur Bremerhaven/Bremen e.V., a wind energy industry network in Northwest-Germany. Since 2011 he is Managing Director of the Renewable Energy Hamburg cluster, with 180 members from this sector covering all stages of the value chain and offering many specialized services.

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Michael Hannibal is the CEO of Offshore at Siemens Wind Power. He has a Bachelor of Science in Electrical Engineering from Aarhus School of Engineering. He has been working for more than 20 years within the power business, on power plants, electrical transmission and distribution systems. He joined Siemens Wind Power in 2004 and has been a key player in the creation of a sustainable offshore wind industry.

Michael Hannibal – CEO Offshore Siemens Wind Power

Ditlev Engel – Chief Executive Officer DNV GL - Energy

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“OFFSHORE WIND AFTER 2020: COST REDUCTION AND INTERNATIONAL MARKET DEVELOPMENT”
What will be the role of offshore wind after 2020 in the generation portfolio?

**CHAIRED BY**

**WILFRIED BREUER**  
Executive Board, TenneT

Wilfried Breuer is a manager in power transmission with more than 24 years of experience in this sector on a global scale. After graduating at the University for Applied Science in Aachen as Dipl.-Ing. in the field of Electrical Power Engineering, he joined Siemens AG in 1989 and worked in projects in South Africa, Mozambique, Thailand and China. He worked with Siemens for 12 years abroad before assuming in 2008 the position as CEO of the Business Unit Transmission Solutions. Since March 2012, Wilfried Breuer has been working as Managing Director at TenneT Offshore GmbH in Bayreuth. In January 2014 he was additionally appointed as Member of the Executive Management Board of TenneT Holding BV, Arnhem with additional responsibility for Offshore Wind in the Netherlands as well as international interconnector projects.

**SPEAKERS**

**MICHAEL HANNIBAL**  
CEO Offshore  
Siemens Wind Power

Michael Hannibal is the CEO of Offshore at Siemens Wind Power. He has a Bachelor of Science in Electrical Engineering from Aarhus School of Engineering. He has been working for more than 20 years within the power business, on power plants, electrical transmission and distribution systems. He joined Siemens Wind Power in 2004 and has been a key player in the creation of a sustainable offshore wind industry.

**SVEN UTERMÖHLEN**  
Director Offshore Wind  
E.On Climate & Renewables  
Central Europe

Sven Utermöhlen has been Director Offshore Wind with E.ON since February 2012. He is responsible for project development, construction and operation of all E.ON assets in offshore wind. In the focus are projects in UK, Germany and Scandinavia. Approximately 200 people are active within the offshore sector of E.ON Climate and Renewables, operating around 1000 MW of renewables generation capacity and managing projects of approximately another 800 MW under construction. Sven Utermöhlen holds a degree in geophysics.
Jörg Kuhbier focuses on energy law, environmental and planning law as well as mediation. He studied law in Hamburg and Munich. Since December 1969 he was employed at numerous authorities of the Free and Hanseatic City of Hamburg and was appointed senate director and chief official of the Hamburg environmental authority in 1981. Since 2005 Mr Kuhbier is member of the Constitutional Court of Hamburg. Furthermore, he chairs the Executive Board of the German Offshore Wind Energy Foundation. Since 1991 he has been working as self-employed lawyer and since 2013 he has been serving as Partner of Counsel at BBH Hamburg.

Thorsten Falk has been working for more than ten years in different departments in the Federal Ministries of Environment and of Economic Affairs and Energy in Berlin. His focus was on the sectors of renewable energies and their net, system and market integration. His current position is based in the Department „Renewable energy in the electricity sector“, Federal Ministry of Economic Affairs and Energy and is also member of the working group „Designing renewable
Peter Schäfer has been heading the wind power team of KfW IPEX-Bank in Frankfurt since 2003. His team of nine professionals is in charge of originating and structuring wind onshore and offshore projects on a global basis. Even though non-recourse project finance transactions are the nucleus in his team, export and corporate financing solutions are also provided by his team on a frequent basis. In the wind onshore area his team successfully structured more than 70 deals worldwide in Germany, Canada, US, Finland, Sweden, Turkey, Taiwan, France, Uruguay, Croatia, Chile, Montenegro, South Africa, Lithuania, Ireland, UK and the Netherlands. Although most of these deals were done on an uncovered basis he and his team have a long-standing experience with the Euler Hermes and EKF covered project finance transactions. Peter and his team ran three early-stage advisory mandates for German offshore projects in 2004, 2005 and 2010 and successfully closed eighteen wind offshore projects in Germany, Belgium and the UK. Prior to joining KfW IPEX-Bank, Peter worked in KfW Development Bank. Peter holds a Diploma degree in economics from the University of Bonn.

"POTENTIAL EFFECTS OF AUCTIONS ON FINANCING STRUCTURES FOR WIND OFFSHORE PROJECTS"

Gunnar Groebler started his career within Vattenfall in 1999 joining corporate development. After various positions within strategy/corporate development, he became Head of Corporate Development/M&A for the Region Central Europe in 2009. From 2011 onwards he was responsible for the German Hydro portfolio. In 2014 Gunnar Groebler started to run the Business Unit Renewables within Vattenfall for the Continental/UK. Since April 2015 he is a member of Vattenfall Executive Group Management responsible for the entire wind business.

"TENDERING OFFSHORE WIND ENERGY IN GERMANY - AN OPERATOR’S VIEW ON COMPETITION AND COST REDUCTION"
After graduating in mechanical engineering at the University of Bochum 20 years ago, Christoph Mertens joined the energy industry. His professional career started in the conventional power generation branch of RWE. As managing director he built up the German offshore wind organizations of DNV GL and of DONG Energy. Today he is managing director of Summit Renewable Power Europe, a 100% owned subsidiary of Sumitomo Corporation.

“THE INTRODUCTION OF AUCTIONS - A STEP CHANGE IN THE OFFSHORE WIND MARKET”

Dr Ursula Prall deals with legal and political aspects of the promotion of offshore. She is specialized in questions of environmental, planning and administrative law. She received a Master’s degree at the Universität Hamburg at which she worked as academic assistant with Professor Hans-Joachim Koch from 2000 until 2004. In 2004, she started her career as lawyer with Kubhier Rechtsanwälte in Hamburg, from 2008 onwards as partner. Since 2013 she has been working as partner at Becker Büttner Held in Hamburg. Furthermore, she presides the Offshore Forum Windenergie as Chief Executive.

“A NEW ERA FOR OFFSHORE WIND POWER - A REVIEW FROM A LEGAL POINT OF VIEW”

Formerly educated as a turbine millwright in the 1980s Ralf studied casting iron technology at the University of Duisburg followed by additional studies in Risk Management and Claims Prevention at the University of Cologne. His insurance career commenced in 1993 as a Claims Engineer and Loss Adjuster and he has been actively involved in the insurance and management of renewable energy risks since 1996. He is author of several publications on suitable risk allocation and insurance for large projects and has experience with approximately 30,000 MW offshore (wind) risks - wind farms, grid, interconnectors - as an insurance broker, claims engineer, risk advisor and lenders insurance advisor. As risk advisor and world's largest insurance broker Marsh, Ralf is the Chief Engineer and Head of the Offshore Wind Practice Europe.

“TENDER MECHANISMS, NEW TECHNOLOGIES, CERTIFICATION AND LONG-TERM INSURABILITY - CONTRADICTION OR JUST A CHALLENGE?”

Miguel Roenes Bueno is Business Development Manager for Renewables Certification at DNV GL, focusing on Germany, Poland and Latin America. Miguel Roenes Bueno is a naval architect and industrial engineer and has worked in different industries like shipbuilding, maritime, automotive and renewables. He joined DNV GL, formerly Germanischer Lloyd 2006 as product manager and initially worked as key account manager for certification projects for wind turbines and later as Head of Department & Business Development Manager Marine Renewables.

“THE INTRODUCTION OF AUCTIONS - A STEP CHANGE IN THE OFFSHORE WIND MARKET”

MIGUEL ROENES BUENO
Business Development Manager
DNV GL - Energy
SESSION 2

New concept for cost reduction

SPEAKERS

TIM BAKX
Managing Director Germany
DNV GL - Energy

Tim Bakx is heading the Renewables Advisory business in Germany since October 1st 2015. He joined DNV GL in January 2007 in the Industrial Services of legacy GL. Reporting into the Directors, he was actively involved in the strategy implementation and business development of the Industrial Services, of which the Renewables business was part of. With the reorganisation of legacy GL, Tim Bakx moved 2009 to the Central Europe region of GL’s Oil & Gas branch. He continued to work on strategy and BD but mainly developed, implemented and run the region’s reporting system. End of 2013, following the merger of DNV and GL, Tim Bakx joined the Energy business as regional finance manager Central Europe until he commenced his current role. Prior to joining DNV GL, Tim Bakx worked six years for BearingPoint, a business consultancy, on a range of various projects, mainly in the utilities industry. He graduated from Technische Universität Berlin in the field of industrial engineering & management and holds a degree in corporate responsibility from the Fundraising Akademie.

VOLKER MALMEN
Managing Director / Country Manager DONG Energy
Germany

Volker Malmen, born in 1971, holds a Diploma in Business Administration from the University of Rostock, specialising in Controlling, Tax law and Operations Research. He has more than 14 years of leadership experience managing international business units with R&D, Manufacturing and Sales sites in various countries worldwide. Volker joined DONG Energy heading the German finance department in 2011. In 2016 he became Managing Director.

"KEY TARGET FOR OFFSHORE-WIND: COST REDUCTION IN A GLOBAL CONTEXT"

NORBERT GIESE
Vice President Agency & Government Relations Senvion

From 1980 to 1987, Mr Giese studied geography, geology and ethnology in Hamburg – finishing with his paper on wind potential in Schleswig-Holstein, in comparison with Denmark. Beginning in 1989, he worked for Siemens Wind Power GmbH (formerly AN Windenergie GmbH) in different positions. Since 1991, he has been owner and operator of WTGs for a small business. Subsequent positions included Interim Manager for REpower Systems, heading the offshore business, in 2008, Senior Vice President Business Unit Offshore for REpower Systems in 2009 and 2010. Since 2011 he was Vice President Offshore Development and since 2014 Vice President Agency & Government Relations at Senvion GmbH. Norbert Giese is also chair of the steering committee Offshore Wind Industry of Verband Deutscher Maschinen- und Anlagenbau (VDMA).

“VERY GOOD PROGRESS IN COST-CUTTING FOR OFFSHORE WIND: EVERYWHERE?”
Ilka Groenewold looks back on more than 600 event presentations and over 100 hours on air experience. In 2012, Ilka started a bachelor’s programme in “American/English and Movement Studies” at the Universität Hamburg. In the same year she was awarded the title “Runner of the Year” by the DLV. For her activities as a presenter and coach Ilka Groenewold was awarded with the “Young Entrepreneur Award 2013”. In 2016 Ilka was the host of a public panel discussion on the German Energiewende at the industrial exhibition WindEnergy Hamburg. She is happy to support the wind energy business for a second time.

After his graduation in civil and coastal engineering Stefan managed various scopes in national and international water power projects. Stefan first came in touch with offshore wind in 2006 working for civil contractor Hochtief. As project manager he was involved in construction and installation of Germany’s first offshore wind farm substations ‘alpha ventus’ and stuck to the offshore wind business ever since. In 2009 Stefan joined EnBW, where he is now responsible for portfolio development offshore wind and implementation of large scale power generation projects from greenfield to commissioning. His presentation will focus on the main cost levers and value drivers of an offshore wind farm: the role of EnBW as developer, operator and asset owner will be illustrated and how especially suppliers and co-investors can benefit from EnBW’s experience, expertise and approach.

“ROLE OF A UTILITY IN AUCTION SYSTEMS - WHAT MAKES ENBW ATTRACTIVE FOR SUPPLY CHAIN AND CO-INVESTORS?”

Henrik Bæk Jørgensen is Chief Project Manager, Head of Product Management and a member of MHI Vestas’ Technology management team. For more than 16 years Henrik has been working within product management and is responsible for MHI Vestas’ product roadmap. Henrik joined Vestas in 2008 as a Senior Product Manager for the 2 MW platform and MHI Vestas on 1 April 2014 - the day the joint venture between Mitsubishi Heavy Industries and Vestas Wind System officially launched.

“How to make the world’s most powerful wind turbine even more competitive?”

Henrich Quick is Head of Offshore Projects at 50Hertz, the TSO for Eastern Germany, Hamburg, and the German part of the Baltic Sea. Prior to his offshore activities, he held the roles of asset manager and asset owner at 50Hertz. Before joining 50Hertz, Henrich’s focus was on large scale investment projects in the power sector as a line manager and consultant. He worked for Pöyry, Alpiq and Booz Allen Hamilton. He holds a diploma and a PhD in physics, both from the Universität Dortmund. His scientific focus was on accelerator physics and free-electron lasers.
Since 2009 Dr Peter Ahmels (1956) has been working as director of the unit “Renewable Energies” at the organisation Deutsche Umwelthilfe. Prior to that position he was president of the German Wind Energy Association (BWE). Dr Ahmels started his career as project manager at BOO Wind projects in Oldenburg. He holds a doctoral degree in agriculture from the Christian-Albrechts-Universität Kiel.

István Erlich (1953) received his Dipl.-Ing. degree in electrical engineering from the University of Dresden/Germany in 1976 and his PhD in 1983 from the same university. After his studies, he worked in Hungary, Berlin and Dresden (Germany) in different fields of power engineering. Since 1998, he is Professor and head of the Institute of Electrical Power Systems of the University Duisburg Essen/Germany. His major scientific interest is focused on power system stability and control, modelling and simulation of power system dynamics including intelligent system applications, smart grids and renewable energy sources. He is a member of VDE and senior member of IEEE. He chaired the IFAC Technical Committee 6.3 on Power and Energy Systems in 2008-2014. Currently he is chair of the IEEE PES German Chapter.

Alf Henryk Wulf (1962) is a graduate of the Technical University of Munich (Technische Universität München) and holds an MBA from EM Lyon Business School. He joined Alcatel in 1991. He was appointed Sales Director for Germany, North and West regions in 1996, and became Key Account Manager Deutsche Telekom AG in 1997. In 2002, he served as Executive Vice President for Sales and Marketing for Europe, the Middle East, Africa and India. In 2003, he became a member of the board of Alcatel SEL AG and was made Executive Vice President Marketing and Sales responsible for Germany, Switzerland, Austria, Central and Eastern Europe, and Russia. He became Deputy Chairman in 2006 and Chairman of the Management Board of Alcatel-Lucent Deutschland AG in 2009. As of 1 April 2012, Alf Henryk Wulf joined Alstom as CEO of the German country unit. Effective from April 2016 he was appointed President of GE Energy Businesses Germany.
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Driven by its purpose of safeguarding life, property and the environment, DNV GL enables organisations to advance the safety and sustainability of their business. DNV GL provides classification and technical assurance along with software and independent expert advisory services to the maritime, oil & gas and energy industries. It also provides certification services to customers across a wide range of industries. DNV GL, whose origins go back to 1864, operates globally in more than 100 countries with its 15,000 professionals dedicated to helping their customers make the world safer, smarter and greener.

In the Energy industry
In DNV GL we unite the strengths of DNV, KEMA, Garrad Hassan, and GL Renewables Certification. DNV GL’s 2,500 energy experts support customers around the globe in delivering a safe, reliable, efficient, and sustainable energy supply. We deliver world-renowned testing, certification and advisory services to the energy value chain including renewables and energy efficiency. Our expertise spans onshore and offshore wind power, solar, conventional generation, transmission and distribution, smart grids, and sustainable energy use, as well as energy markets and regulations. Our testing, certification and advisory services are delivered independent from each other.

About EEEH
The EEEH “Renewable Energy Hamburg” network (or “cluster”) was set up in order to strengthen and promote cooperation in the sector. It works to pool the wide-ranging skills among companies, research facilities and institutions. It also provides a platform for dialogue among stakeholders, and promotes interfaces to other sectors, such as logistics. Currently, there are 180 member companies involved in the cluster.