Offshore wind of tomorrow - market integration by next generation technology
CONFERENCE NOTES
CONFEREECE AGENDA

16:00 Welcome and registration

SESSION OPENING
17:00 Chaired by Dr Kim Mørk, Executive Vice President, DNV GL - Energy, Renewables Certification

Jan Rispens, Managing Director, Renewable Energy Hamburg
Ditlev Engel, CEO, DNV GL - Energy
Opening by the hosts DNV GL and the Cluster Renewable Energy

KEYNOTES
17:20 Giles Dickson, CEO Wind Europe
Offshore wind in Europe: the political framework today, tomorrow

17:40 Professor Dr Kurt Rohrig, Deputy director, Fraunhofer IEE
Role of offshore wind in the German “Energiewende”

PANEL DISCUSSION
Times are changing - the new role for offshore wind energy
The panel discussion will take place in English, simultaneous translation is available.

18:00 Moderated by Darius Snieckus, Editor-in-Chief, Recharge
Speakers
> Giles Dickson, CEO, Wind Europe
> Professor Dr Kurt Rohrig, Fraunhofer IEE
> Andreas Nauen, CEO Offshore, Siemens Gamesa Renewable Energy
> Andreas Wagner, Managing Director, Foundation Offshore Wind Energy/Stiftung Offshore-Windenergie

19:00 Dinner
08:00 Registration and welcome coffee

SESSION OPENING
09:00 Chaired by Jan Rispens, Managing Director, Renewable Energy Hamburg
   Morning greeting by the hosts
09:10Greetings by the free and hansaetic City of Hamburg
09:20 Torben Hvid Larsen, CTO, MHI Vestas
   Keynote presentation

SESSION
Same same but different...new technologies and their impact on offshore wind, short presentations and Q&A
09:40 Chaired by Jan Rispens, Managing Director, Renewable Energy Hamburg
Speakers > Rajnish Sharma, Technology Director - wind & low carbon solutions, Statoil
   What will the future require of technology in offshore wind
> Morten Pilgaard Rasmussen, Head of Offshore Technology, Siemens Gamesa
   Renewable Energy, New technologies will reduce the LCoE for offshore wind
> Cornelius Drücker, Vice President Offshore, Senvion S.A.
   Offshore wind technology in the next decade
> Lutz Dröge, Deputy General Manager German Subsidiaries, DEME Group
   INNOVATION (+) IN MOTION, Floating solutions for offshore wind - leaving the stable ground but broaden the capabilities
11:00 Coffee break

PANEL DISCUSSION
Love it or hate it...offshore wind and the dependency on the power market

The panel discussion will take place in German, simultaneous translation is available.
11:30 Moderated by Claas F. Hülsen, Business Development Director, Advisory CEMED, DNV GL - Energy
   Claas F. Hülsen, Business Development Director, Advisory CEMED, DNV GL - Energy
   Opening presentation
   Power market developments and its impact on offshore wind
Speakers > Dr Felix Christian Matthes, Research Coordinator for Energy & Climate Policy, Energy & Climate, Öko-Institut
> Catrin Jung-Draschil, Head of Market Development Offshore, Vattenfall
> Roland Schmidt, Managing Director, Macquarie Capital
> Jürgen Blume, Managing Director, Iberdrola Renovables
13:00 Lunch
CONFERENCE AGENDA

SESSION
With North Sea experience into the wider world? Different perspectives on international market developments, short presentations and Q&A

14:00 Chaired by Peter Frohböse, Principal Engineer, Renewables Advisory, DNV GL - Energy

Speakers
> Steve Sawyer, Secretary General, GWEC
  Opening: A global perspective - the international market developments in offshore wind
> Liz Burdock, Executive Director, Business Network for Offshore Wind, Offshore Wind Market USA
> Achim Berge Olsen, CEO, wpd offshore GmbH
  Offshore wind market Taiwan
> Geert Harm Boerhave, RVO (The Netherlands Enterprise Agency)
  Offshore wind market in the Netherlands

15:30 Coffee break

SESSION
How fast will visions become reality? Two outstanding & inspiring seal-up keynotes

16:00 Chaired by Peter Frohböse, Principal Engineer, Renewables Advisory CEMED, DNV GL - Energy

16:00 Wilfried Breuer, CEO, TenneT Holding B.V.
  Offshore wind: a visionary outlook from a TSO perspective

16:30 Henrik Stiesdal, Wind power pioneer with 40 years of experience at Vestas, Bonus and Siemens Wind Power, Associate Professor at Danish Technical University (DTU)
  Offshore 2025 and beyond
  Products and technology

17:00 Closing
SPEAKERS | DAY 1

SESSION OPENING

Opening & welcome

DR KIM MØRK
Executive Vice President,
DNV GL - Energy
Renewables Certification

Dr Kim Mørk was appointed in January 2015 to the position of Executive Vice President with global responsibility for Renewables Certification at DNV GL Energy. He holds a M.Sc. in Mechanical Engineering and a PhD in Stochastic Mechanics from Aalborg University, Denmark in 1989. He has been with DNV GL since 1992 holding various technical and management positions. This includes positions as Director of Operations for Cleaner Energy in the Americas, Technical Director for DNV Energy, Director for Offshore Pipelines and Director for Arctic Operations and Technology. He has been a manager of several major joint industry R&D projects within marine technology, structural reliability, arctic technology, deep water pipelines & risers and has been a key developer of several DNV GL Offshore Standards and Recommended Practices. He is the author or co-author of more than 80 papers in international journals and conference proceedings.

JAN RISPENS
Managing Director,
Renewable Energy Hamburg

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 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 190 members from this sector covering all stages of the value chain and offering many specialized services.
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.
WindEurope is the voice of the European wind industry. It represents the entire value chain of wind power: turbine manufacturers, component suppliers, power utilities, project developers, financial institutions and research institutes. As the industry association, WindEurope actively promotes wind power in Europe. It engages governments on policy and regulation that affect wind power and its integration in the energy system. It coordinates research and development for the wind industry in Europe and manages the European Technology Innovation Platform for wind on behalf of the EU Commission. It also organizes industry exhibitions, conferences and technical workshops and serves as a platform for networking across the industry and between the industry and other stakeholders. WindEurope has over 450 members from more than 50 countries and a staff of over 50 based in Brussels. In February 2017 WindEurope was awarded the prize for the Best European Association. Prior to joining WindEurope, Mr. Dickson was Vice President of Global Public Affairs at Alstom. Before that, he was a civil servant in the UK Government for over 15 years.

Professor Dr Kurt Rohrig is deputy director of the Fraunhofer Institute for Energy Economics and Energy System Technology (IEE) and Division Director of Energy Economics and Grid Operation. As a mechanical engineer with a diploma in numerical mechanics, he completed his PhD in 2003 at the faculty of electrical engineering at the University of Kassel. Professor Rohrig has more than 25 years of experience in renewable energy projects. On European level, he is leading the sub-program Grid Integration of the Joint Program Wind Energy in framework of the European Energy Research Alliance (EERA) and is representative for the Fraunhofer Association for all EERA activities. As professor at the University of Kassel, Professor Rohrig holds lectures about the integration of wind energy.
PANEL DISCUSSION

Times are changing - the new role for offshore wind energy

DARIUS Snieckus
Editor-in-Chief, Recharge

Darius Snieckus is Editor-in-Chief at Recharge, the international renewable energy news and intelligence platform launched in 2009. He also hosts the Recharge Thought Leaders, a group of wind and solar power industry thinkers which convenes regularly for Chatham House rules roundtables, and annually for its Thought Leaders Summit at Holmenkollen, Oslo. From 1994-2008, he covered the oil and gas industry with titles including Offshore Engineer, Oil & Gas Journal and the Petroleum Economist.

GILES DICKSON
Chief Executive Officer, WindEurope

WindEurope is the voice of the European wind industry. It represents the entire value chain of wind power: turbine manufacturers, component suppliers, power utilities, project developers, financial institutions and research institutes. As the industry association, WindEurope actively promotes wind power in Europe. It engages governments on policy and regulation that affect wind power and its integration in the energy system. It coordinates research and development for the wind industry in Europe and manages the European Technology Innovation Platform for wind on behalf of the EU Commission. It also organizes industry exhibitions, conferences and technical workshops and serves as a platform for networking across the industry and between the industry and other stakeholders. WindEurope has over 450 members from more than 50 countries and a staff of over 50 based in Brussels. In February 2017 WindEurope was awarded the prize for the Best European Association. Prior to joining WindEurope, Mr. Dickson was Vice President of Global Public Affairs at Alstom. Before that, he was a civil servant in the UK Government for over 15 years.
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Andreas Wagner works as CEO of Stiftung Offshore-Windenergie (Foundation Offshore Wind Energy) since 2008. He heads the Berlin office of the Foundation Offshore Wind Energy since 2013. In this function, he’s been involved in several national and EU funded projects, dealing with various aspects of offshore wind development in Germany and Europe. Andreas has a strong expertise in public and regulatory affairs, and on legal framework with regards to offshore wind and renewable energy. For many years, he’s been an active member of WindEurope’s WG Offshore Industry. Before joining the Stiftung, Andreas Wagner held various positions in European marketing and communications, public affairs and business development, with GE Wind Energy in Germany.

A Mechanical Engineer who also holds an MBA, Andreas Nauen is the CEO of the Offshore Business Unit of Siemens Gamesa Renewable Energy. He has a strong track record in the renewables industry with over 11 years as CEO of Siemens Wind Power and REpower/Senvion. He served as the first CEO of Siemens Wind Power from 2004-2010, leading the integration from 800 employees and revenue of 350 million Euro to over 6,000 employees and revenue of 3 billion Euro. His career within the power generation industry began in 1991 with Siemens.
SESSION OPENING

Opening & welcome

JAN RISPENS
Managing Director, Renewable Energy Hamburg

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 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 190 members from this sector covering all stages of the value chain and offering many specialized services.

TORBEN HVID LARSEN
CTO, MHI Vestas

Torben Hvid Larsen is Senior Vice President in MHI Vestas Offshore Wind with responsibility for Technology. MHI Vestas Offshore Wind is a joint venture company between Mitsubishi Heavy Industries and Vestas Wind Systems and was founded in 2014. Torben has been in the wind business since 2001 and during the years, he has headed more platforms and today he is the technology owner of the largest installed turbine in the world, the V164, 8 MW. Torben holds a Master in Organisation (HD-O), is Mechanical Engineer, and with - as already mentioned - years of experience in the wind industry and other project based organizations.
SESSION

Same same but different...new technologies and their impact on offshore wind

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 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 190 members from this sector covering all stages of the value chain and offering many specialized services.

Morten Pilgaard Rasmussen is the Head of Offshore Technology at Siemens Gamesa Renewable Energy. Rasmussen’s career with Siemens Gamesa goes back to 2002, where he began as a R&D Team Leader in the former Bonus Energy. He has progressed through a series of management positions within the R&D function since then, each with increasing areas of responsibility.

Cornelius Drücker is working with Senvion since September 2008. In his current role as Vice President Offshore he has overall responsibility for the Senvion offshore business. With a background in Civil Engineering (Construction Management), Cornelius Drücker has been working in the offshore industry for over fifteen years. In his former career steps, he gained experiences in civil construction projects as well as in the oil and gas industry working as a project engineer with Heerema Marine Contractors in various offshore platform installation and decommissioning projects. Afterwards, he started working in the offshore wind industry and assisted in building up the business area Offshore Wind at Hochtief Construction AG. Cornelius Drücker joined Senvion in the project management department for the Ormonde project; at a later stage leading this department as Vice President Project Management Offshore from 2010 to 2014.

Rajnish Sharma currently serves as Technology Director - wind & low carbon solutions at Statoil. Previously, he had more than 20 years of experience in the oil and gas industry where he had a variety of management roles within Research, Development and Innovation, Technology qualification, Project development, Onshore/Offshore operations and Sales & Marketing. Rajnish holds a higher degree in Systems and Control Engineering.
LUTZ DRÖGE  
Deputy General Manager 
German Subsidiaries, 
DEME Group

Study of building, construction and transportation at the Technical University of Berlin. First working experiences in the field of civil engineering for Ed. Züblin AG Hamburg from 1992 on. Later, leader of the department of civil engineering and, in a further step, head of the Technical Office for the northern directory of Züblin.

In 2003 continuing the professional career as project manager for Tiefbau GmbH Unterweser (TAGU), a subsidiary of Ludwig Freytag Group Oldenburg. During the following years involved in many harbor and marine projects along the coasts of the North and Baltic Sea and the inland waterways. Worked as a managing director for Tagu from 2013 - 2016.

Since 2017 with DEME / GeoSea as the Deputy General Manager of the German Subsidiaries and responsible for projects and future developments in the fields of offshore wind, dredging and infrastructure.
Love it or hate it... offshore wind and the dependency on the power market

**CLAAS F. HÜLSEN**  
Business Development Director, Advisory CEMED, DNV GL - Energy

Claas F. Hülsen is head of the CEMED regional sales office for DNV GL Energy. He has been working in the energy industry for 18 years, of which more than 12 years for DNV GL in various management positions. For DNV GL, Claas Hülsen has been working with a large number of clients in the energy sector and has also actively advised them on national and international projects. He has extensive knowledge of the deregulated energy market and is distinguished by his conceptual approach.

**DR FELIX CHRISTIAN MATTHES**  
Research Coordinator for Energy & Climate policy, Energy & Climate, Öko-Institut

Dr Felix Christian Matthes has been a researcher at Öko-Institut since 1991. From 1991 to 1997 he was a senior scientist in the Energy and Climate Division, from 1997 to 2008 he was the Coordinator of the division and since 2008 he has been Research Coordinator for Energy and Climate Policy. From 2002 to 2004 he served as Deputy Director of the Institute. He graduated as electrical engineer from Leipzig University of Technology (Technische Hochschule Leipzig) in 1985 and received his doctoral degree in political sciences from Free University of Berlin in 1999.

He has more than 25 years of professional experience in research and consultancy, concentrating on energy and climate change issues. He has published numerous studies and publications on German and international energy policy, as well as on environment and climate policy and served at several German and international advisory boards. Key topics of his work include the design, the comparison and the implementation of emissions trading schemes, energy market modelling, energy market design and technology-specific policies as well as medium and long-term decarbonization strategies, the comprehensive assessment and monitoring of energy and climate policy packages and strategies.
Catrin Jung-Draschil is heading the Market Development unit in Vattenfalls Offshore. In this function she is responsible for developing and consenting all offshore projects in Vattenfalls pipeline as well as project acquisitions and market entries. Catrin Jung-Draschil has started working within Vattenfall in 2002 and has held various positions in the area of Investment Strategy, Business Development and Market Analysis. Catrin Jung-Draschil has studied Energy Engineering in Leipzig and Switzerland.

Roland Schmidt joined Macquarie Capital in 2011. He previously worked for UBS Investment Bank and Lazard from 2000 to 2011. Roland Schmidt is responsible for the coverage of clients in the infrastructure, utilities & renewable energy sector and for principal investments of Macquarie Capital in these sectors in the DACH region. Macquarie Capital / Green Investment Group is a leading financial investor in offshore wind projects in Germany, UK and Taiwan.

Juergen Blume
Managing Director, Iberdrola Renovables

Degree as Dipl.-Ing. Energy and Process Engineering at University Hannover.
4 years acting as project manager for the development of electricity storage systems in Hannover and further 8 years in different project management functions in plant engineering and construction and system engineering in Mannheim.
1997 Head of Business Unit “Project Management” at MVV Energie AG in Mannheim and then from year 2000 onwards managing director of the subsidiary “eternegy GmbH” to development onshore wind projects in Germany and abroad.
Since 2005 managing director of Iberdrola Renovables as part of Spanish Iberdrola Group in Berlin and Sassnitz. The current topics are: Realization and operation of the offshore wind project “Wikinger” and the development of further offshore wind projects in the German Baltic Sea.
SESSION

With North Sea experience into the wider world?

LIZ BURDOCK
Executive Director,
Business Network for Offshore Wind

Liz Burdock is the Executive Director of the Business Network for Offshore Wind, a national 501(c)3 nonprofit organization, dedicated to building the U.S. offshore wind supply chain. Ms. Burdock has extensive experience running public/private partnerships. Prior to joining the Network, she managed Partnership for Advancing Technology in Housing, a White House initiative, and the Chesapeake Crescent, a regional initiative aimed at growing a green economy in Virginia, Maryland and the District of Columbia. Her career is focused on convening and coordinating diverse stakeholders, including businesses, academics, government agencies, policy makers, community leaders, workforce organizations and strategic investors to develop sound solutions that facilitate the implementation of clean energy in the US.

STEVE SAWYER
Secretary General,
GWEC

Steve Sawyer joined the Global Wind Energy Council as its first Secretary General in April 2007. The Global Wind Energy Council represents the major national and regional wind energy associations as well as the major companies involved in the global wind industry. See gwec.net. Steve has worked in the energy and environment field since 1978. At GWEC he is focused on working with intergovernmental organizations and with opening-up new markets in Latin America, Africa and Asia.

PETER FROHBOSE
Principal Engineer, Renewables Advisory, DNV GL - Energy

Degree as Structural Engineer graduated at the Technical University Hamburg-Harburg. In 2004 he joined Germanischer Lloyd as a professional engineer, working as an expert in wind energy in the turbine certification business. He soon was appointed to lead the Onshore Certification Team. In 2009 he was offered the opportunity to join GL’s advisory unit as team leader & expert. Within DNV GL Advisory Unit became responsible for the Offshore Wind Team in Germany. Since 2015 Peter is focused on offshore Wind as a Principal Engineer within the Project Engineering Team. In more than a decade working in renewable energy Peter Frohboese gained an in-depth understanding of turbine technology, offshore logistics, project development, consenting, contracting, project operation & maintenance and risks management in numerous projects as an owner’s engineer as well as independent expert. Peter is appointed Member of the Scientific Advisory Board to the German Offshore Wind Energy Foundation. Since late 2017 Peter has been invited by the DNV GL’s Executive Leadership Team to join the Global Excellence Team for offshore wind.
ACHIM BERGE OLSEN
Chief Executive Officer, wpd offshore GmbH, Offshore Wind Market Taiwan

Achim Berge was born in 1972 and holds degrees in law from Germany and Sweden as well as a Master of European Law (LL.M.). While working as an attorney at law, he was a member of the German and the Swedish Bar Association. He has been responsible for wpd’s offshore business from the very beginning in 2001 and followed the company from being a pure developer to managing the construction and operation of entire offshore windfarms. Key milestones have been the sale of Swedish Kriegers Flak project to Vattenfall (2005), sale of four German offshore projects to EnBW (2008) and the construction management of Germany’s first commercial offshore windfarm Baltic 1 (2009), as well as winning the French Round 1 offshore tender together with EDF and DONG Energy (now Orsted) (2012) and the construction management of the 1.2 billion EUR Butendiek project (2014-2015) and the 450 million EUR Nordergründe project (2016-2017).

GEERT HARM BOERHAVE
RVO (The Netherlands Enterprise Agency) Offshore Wind Market in the Netherlands

Geert Harm Boerhave started working for the Netherlands Enterprise Agency (RVO) in 2006. RVO is a daughter company of the Ministry for Economic Affairs and Climate Change. In 2013 he became the tender coordinator for offshore wind tenders in the Netherlands.

PETER FROHBÖSE
Principal Engineer, Renewables Advisory, DNV GL - Energy

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SESSION
How fast will visions become reality? Two outstanding & inspiring seal-up keynotes.
Wilfried Breuer is a manager in power transmission with over 24 years of experience in this sector on a global scale. After graduating from the University for Applied Science in Aachen as Dipl.-Ing. on Electrical Power Engineering he joined Siemens AG in 1989 and worked in projects in South Africa, Mozambique, Thailand and China. He worked with Siemens about 12 years abroad before assuming in 2008 the position as CEO of the Business Unit Transmission Solutions. Since March 2012, Wilfried Breuer works 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.

Henrik Stiesdal is one of the pioneers of the modern wind industry. He built his first wind turbine in 1976 and in 1978 designed one of the first commercial wind turbines, licensed by Vestas in 1979. Stiesdal worked with Vestas until 1986 and joined Bonus Energy, later Siemens Wind Power in 1987. In 1988 he was appointed Technical Manager, and in 2000 Chief Technology Officer. He retired at the end of 2014. During his 40 years in the wind industry Stiesdal has worked with all aspects of wind turbine technology, including fundamental research, turbine design, manufacturing, sales, project implementation, service and quality management. His post-retirement activities include floating wind turbines, energy storage, carbon-negative fuels, Lidars, and avian deterrent technologies. Henrik Stiesdal is an Associate professor at DTU Wind Energy and at the University of Maine, USA.
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WINDEA OFFSHORE
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 power and renewables industry
DNV GL delivers world-renowned testing and advisory services to the energy value chain including renewables and energy management. 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 experts support customers around the globe in delivering a safe, reliable, efficient, and sustainable energy supply.

About EEHH
The EEHH “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.

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