

# OFFSHORE WIND

## Development Forum 2013

24-25 JANUARY 2013



### AGENDA

• DAY 1 • THURSDAY 24 JANUARY 2013 •

0800 REGISTRATION

0830 OPENING & WELCOME REMARKS: OFFSHORE WIND FARM PROJECTS IN TAIWAN: OPPORTUNITIES AND CHALLENGES



Robert Yie-Zu Hu  
*Fellow ASHARE*  
*Principal Researcher & Deputy General Director*  
*Green Energy and Environment Research Laboratories*  
**INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE**

**Mr Robert Yie-Zu Hu** is currently the Lead Researcher (since 2006) and Deputy General Director (since 2003) of Green Energy & Environment Research Labs., Industrial Technology Research Institute. He is the representative speaker of Taiwan Wind Energy Association (TWNWEA). He has a Ph.D. in Mechanical Engineering from University of Illinois at Chicago (1989) and a M.S. in Energy Engineering from University of Illinois at Chicago (1982). Other than his role in his company, he is also involved in other professional groups (ASHRAE, CSHRAE, Association of Atmosphere Protection in Taiwan, Taiwan Ventilation Equipment Association, The Chinese Society of Mechanical Engineers and The Chinese Institute of Engineers).

0845 Panel Discussion

**OUTLOOK OF OFFSHORE WIND PROJECTS: GOVERNMENT PROGRAMS AND INCENTIVES TO SPEED THE DEVELOPMENT OF OFFSHORE WIND IN ASIA**

**Moderator:**



Mathias Steck  
*Senior Vice President, Regional Manager Asia Pacific*  
**GL GARRAD HASSAN**

**Mr Mathias Steck** is a Senior Vice President of GL Garrad Hassan and is the Regional Manager of GL Garrad Hassan Asia Pacific. This position involves managing a team of over 80 Inspectors and Engineers specialising in wind energy located in offices in China, India, Australia, Korea, Japan and New Zealand. Based in Shanghai, China, Mathias has 9 years of experience in the wind turbine industry. During this time he has performed a wide range of

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tasks as an expert in charge of structural components of wind turbines including reviews, inspections, expert opinions, failure analysis, technical due diligence, guideline development and technical seminars.

***Panellists:***



Wei-Hsien Lu  
*Senior Engineer*  
*Green Energy and Environment Research Laboratories*  
**INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE (ITRI)**

**Mr Wei-Hsien Lu** is currently the Senior Engineer of Green Energy & Environment Research Labs., Industrial Technology Research Institute (ITRI). He has a M.S. degree in Naval Architecture and Offshore Engineering (1994) and received Ph.D. candidate in Civil and Environmental Engineering (1998) from University of California at Berkeley. Since joining ITRI in 2000, Mr. Lu has been responsible for assisting the government to promote wind energy utilization in Taiwan, including onshore demonstration projects, wind measurement & resource assessment, and the Offshore Demonstration Incentive Program.



Jong Hoon Lee  
*Principal Researcher*  
*Technology Transfer Agent*  
**KOREA INSTITUTION OF ENERGY TECHNOLOGY EVALUATION AND PLANNING (KETEP)**

**Mr Jong-hoon Lee** is a Principal Researcher at KETEP (Korea institute of Energy Technology Evaluation and Planning). He has a BA and MS Degree in Electronics Engineering at Chungnam National University, Korea and a Ph.D in Management of Technology at Yonsei University, Korea. Mr Lee was also involved in the R&D planning and management of Renewable Energy R&D Program supported by the Government. He was also part of the planning committee of “South-Western Sea 2.5GW Offshore Wind Farm Project” of Korea.



Michael Wang  
*Assistant Project Manager*  
**TAIWAN GENERATIONS CORPORATION**

**Mr Michael Wang** is an Assistant Project Manager at Taiwan Generations Corporation, supporting the project manager in project management for offshore wind farm development, including financial arrangement, cost estimation and business communication. Michael Wang has his master degree for International Management in Strathclyde Business School, Glasgow



Tommy Fukuda  
*Project Integrator*  
**FUKUSHIMA FLOATING OFFSHORE WIND PROJECT**

**Mr Tomofumi (Tommy) Fukuda** has been working in Marubeni Corporation since 1986. He is currently the Deputy General Manager of Domestic Power Project Department. Mr Tommy is also the project integrator of Fukushima Offshore Wind. (Project leader of 11-company consortium of Japanese Government Project). He previously was the President of Marubeni Caribbean Power Holding in year 2007 to 2011.

**0945 MITIGATION OF RISKS IN OFFSHORE WIND INDUSTRY: ASSESSING THE WIND FARM'S SITE AND MANAGING OFFSHORE OPERATIONS**



Ming-Chang Wu  
*Manager of Technical Service*  
**BUREAU VERITAS TAIWAN**

**Mr. Ming-Chang Wu** is currently Manager of Technical Service for Bureau Veritas, Taiwan. He received a Bachelor degree in Naval Architecture from National Taiwan University and a Master degree in Naval Architecture and Offshore Engineering from University of California at Berkeley. He joined Bureau Veritas, Taiwan in 1993, as a marine surveyor and auditor for quality system. From 2001 to 2003, he was assigned to BV Head Office at Paris for structural analysis for offshore floating units. Since 2003, he had been assigned to BV China, BV Korea, and BV Philippines for varied managerial and technical positions. He was re-assigned to BV Taiwan from 2008.

**1030 NETWORKING COFFEE BREAK**

**1100 TECHNICAL CHALLENGES AND STRATEGIES FOR DEVELOPMENT AND OPERATION OF OFFSHORE WIND PROJECTS**



Dayton. A. Griffin  
*Business Director, Renewable Energy Services, Asia Pacific*  
**DNV KEMA ENERGY & SUSTAINABILITY**

**Mr Dayton. A. Griffin** is the Business Director for Renewable Energy Services, Asia-Pacific in DNV-KEMA Energy and Sustainability. Located in Busan, South Korea, he is responsible for business development and delivery of services, including certification and advisory for offshore wind, throughout the Asia-Pacific region. Mr Griffin has over 18 years of experience in wind turbine engineering covering a wide range of turbine technology. In addition to his

business development role, recent project work includes a detailed assessment of an offshore turbine manufacturing and project development company, and an ongoing feasibility study for a 4 GW offshore wind project on the Korean peninsula.

#### 1145 THE DEVELOPMENT OF NEW GENERATION OFFSHORE WIND TURBINES



Frédéric Hendrick  
*Vice President, Offshore Wind*  
**ALSTOM**

In January 2011, **Mr Frédéric Hendrick** was appointed Vice President Offshore for Alstom Wind. Frédéric Hendrick joined Alstom in 2005 as Vice President of Manufacturing and was in charge of half of Alstom's rolling stock equipment units. In 2006, he was appointed Vice President for Urban Transit of Alstom's Transport sector. He was also responsible for the tramways and subways division. In 2008, he became Vice President Marketing for Alstom Transport. Frédéric Hendrick began his career in PSA, having different positions in logistical and industrial divisions during twelve years. In 2000, he joined the Pechiney Group in order to implement the Lean Manufacturing in one of the Packaging division. Then, he was promoted Vice President Manufacturing Europe. He graduated from the Ecole Supérieure de l'Electricité (SUPELEC). Frédéric Hendrick was born in 1965.

#### 1230 NETWORKING LUNCH

#### 1400 INNOVATIVE OFFSHORE WIND FARM FOUNDATION DESIGNS



Bernard Casey  
*Head Of Offshore Engineering*  
**MAINSTREAM RENEWABLE POWER LTD**

**Mr Bernard Casey** graduated in civil engineering from University College Dublin in Ireland and has a master's degree in soil mechanics from Imperial College London. Since graduation, he has more than 20 years' experience in the power industry, including onshore wind, most of which was spent with ESB International in both consulting engineer and EPC Contractor roles. He is the Head of Offshore Engineering at Mainstream Renewable Power and responsible for direction of all engineering work on Mainstream's 5.6GW offshore portfolio.

#### 1445 CHALLENGES IN OFFSHORE WIND FOUNDATION INSTALLATIONS



Lutz Mertschat  
*Sales Manager*  
**MENCK GmbH**

**Mr 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, Lutz 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.

#### 1515 PROSPECTS OF OFFSHORE WIND FARM INSTALLATION



Mathias Steck  
*Senior Vice President, Regional Manager Asia Pacific*  
**GL GARRAD HASSAN**

**Mr Mathias Steck** is a Senior Vice President of GL Garrad Hassan and is the Regional Manager of GL Garrad Hassan Asia Pacific. This position involves managing a team of over 80 Inspectors and Engineers specialising in wind energy located in offices in China, India, Australia, Korea, Japan and New Zealand. Based in Shanghai, China, Mathias has 9 years of experience in the wind turbine industry. During this time he has performed a wide range of tasks as an expert in charge of structural components of wind turbines including reviews, inspections, expert opinions, failure analysis, technical due diligence, guideline development and technical seminars.

#### 1545 TEA RECEPTION & END OF CONFERENCE DAY ONE

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## Development Forum 2013

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### AGENDA

• DAY 2 • FRIDAY 25 JANUARY 2013 •

- 0800 REGISTRATION
- 0830 WINNING THE DEMONSTRATION INCENTIVE PROGRAMME: TAIWAN'S FIRST OFFSHORE WIND DEMONSTRATION PROJECT
- 0900 Panel Discussion  
**OFFSHORE WIND TURBINE TECHNOLOGY DEVELOPMENT – CHALLENGES IN SIZE, WEIGHT AND TYPHOON SPECIFIC CHALLENGES**

#### *Moderator:*



Rob A J van Basten Batenburg  
*Managing Director*  
**MARWIND GROUP**

**Mr Rob van Basten Batenburg** has more than 10 years of experience in Offshore Wind and renewable energy, and founded Marwind Group in 2007. Working on board level, his experience is in areas of project development, operations, strategic management consulting, M&A and financial management throughout the offshore wind value chain. Marwind Group has further expertise in business development, facilitating investments and transactions, innovation, and provides technical and other advisory functions in areas of installation, operations and maintenance of offshore wind projects. Marwind's scope has broadened to other renewable energy sectors. Rob has had a 21 year distinguished career in the Dutch Navy, received a Sloan Fellowship from London Business School with a MSC in Business Administration and Management in 2000, and has a further background in IT/HighTech and corporate venturing.

#### *Panellists:*

Hüseyin Kizilagac  
*Director Business Development / Sales*  
**BDP PROJECT LOGISTICS GMBH**

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Ramon Terrones  
*Regional Director – Asia Pacific & Oceania*  
**GAMESA**

**Mr Ramon Terrones** has over 25 years' experience of living and working in Asia Pacific. After graduating in aerospace engineering at the Polytechnical University of Madrid, Spain, he went to Japan in 1982 to study Japanese Language & Literature at Osaka University before getting his master's degree from the engineering school of Tokyo University in March 1985. Based in the new office of Gamesa in Singapore since September 2010, Ramon Terrones has responsibility for the operations of Gamesa in Asia: Japan to Australia and Bhutan to New Zealand, including all Southeast Asia and the Pacific island countries, with the exception of China and India, where Gamesa has separate business units and production plants covering these markets. In Asia Pacific, Gamesa has wind turbines operating in Japan, Korea, Taiwan, Vietnam, New Zealand and, very soon, in Australia.



Frédéric Hendrick  
*Vice President, Offshore Wind*  
**ALSTOM WIND**

In January 2011, **Mr Frédéric Hendrick** was appointed Vice President Offshore for Alstom Wind. Frédéric Hendrick joined Alstom in 2005 as Vice President of Manufacturing and was in charge of half of Alstom's rolling stock equipment units. In 2006, he was appointed Vice President for Urban Transit of Alstom's Transport sector. He was also responsible for the tramways and subways division. In 2008, he became Vice President Marketing for Alstom Transport. Frédéric Hendrick began his career in PSA, having different positions in logistical and industrial divisions during twelve years. In 2000, he joined the Pechiney Group in order to implement the Lean Manufacturing in one of the Packaging division. Then, he was promoted Vice President Manufacturing Europe. He graduated from the Ecole Supérieure de l'Electricité (SUPELEC). Frédéric Hendrick was born in 1965.



Zen-Jey Guey  
*Senior Expert*  
**INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE (ITRI)**

**Mr Guey Zen-Jey** was born in Kaohsiung, Taiwan. He received the B.Sc.Eng. and M.Sc..Eng., degrees in 1982, 1984 respectively in power mechanical engineering from National Tsing

Hua University, Hsinchu, Taiwan. He worked in CSIST as a test engineer from 1984 to 1987. Since late 1987 he joined ITRI as an electrical engineer and has been working for different projects on electrical machine control fields. His engagement in wind power conversion technology since 2005 mainly covers the analysis and design of power converters for the DFIG and the PMSG. He was awarded the Distinguished Electrical Engineer honour from CIEE in 2008 and is now the technical officer with Taiwan Wind Energy Association.

**1015 NETWORKING COFFEE BREAK**

**1045 JAPAN OFFSHORE WIND GOVERNMENT PROGRAM AND INNOVATION ON FLOATING OFFSHORE WIND PROJECT**



Tommy Fukuda  
*Project Integrator*

**FUKUSHIMA FLOATING OFFSHORE WIND PROJECT**

**Mr Tomofumi (Tommy) Fukuda** has been working in Marubeni Corporation since 1986. He is currently the Deputy General Manager of Domestic Power Project Department. Mr Tommy is also the project integrator of Fukushima Offshore Wind.(Project leader of 11-company consortium of Japanese Government Project). He previously was the President of Marubeni Caribbean Power Holding in year 2007 to 2011.

**1130 IMPROVING THE OFFSHORE WIND SUPPLY CHAIN**

Hüseyin Kizilgac  
*Director Business Development / Sales*  
**BDP PROJECT LOGISTICS GMBH**

**1215 NETWORKING LUNCH**

**1400 OFFSHORE WIND FARM MAINTENANCE**



Haico van der Heijden  
*Wind Energy Unit Business Development Manager*  
**ECN**

**Mr Haico van der Heijden** is currently the Wind Energy Unit Business Development Manager. He has a MSc degree in Mechanical Engineering from Technical University of Eindhoven, the Netherlands. He has an Executive MBA in "International Business" from Temple University Tokyo, Japan. Mr Haico's main job scope is the commercialization and business development for one of the world's leading research and development centers with respect to Offshore Wind energy.



**1445 WIND TURBINES, DESIGN, BUILD AND INSTALLATION**



Ramon Terrones  
*Regional Director - Asia Pacific & Oceania*  
**GAMESA**

**Mr Ramon Terrones** has over 25 years' experience of living and working in Asia Pacific. After graduating in aerospace engineering at the Polytechnical University of Madrid, Spain, he went to Japan in 1982 to study Japanese Language & Literature at Osaka University before getting his master's degree from the engineering school of Tokyo University in March 1985. Based in the new office of Gamesa in Singapore since September 2010, Ramon Terrones has responsibility for the operations of Gamesa in Asia: Japan to Australia and Bhutan to New Zealand, including all Southeast Asia and the Pacific island countries, with the exception of China and India, where Gamesa has separate business units and production plants covering these markets. In Asia Pacific, Gamesa has wind turbines operating in Japan, Korea, Taiwan, Vietnam, New Zealand and, very soon, in Australia.

**1530 NETWORKING & END OF CONFERENCE DAY TWO**

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