



Quo Vadis 2011 Wind Energy Conference

Pre-Event Dinner on
Wednesday, 9th November 2011
Conference on
Thursday, 10th November 2011

Belfast Harbour Commissioners
Harbour Office, Corporation Square
Belfast, Northern Ireland BT1 3AL

Quo Vadis - The FREE wind conference
only for Owners and Operators

Quo Vadis[®]
Conference

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The Speakers



Kevin Donovan, Director, windpower renewable solutions Limited

Kevin Donovan has worked in the bearing industry for 35 years and has owned his own company for the last 23 years. He got involved in the wind industry some 9 years ago and founded windpower renewable solutions Limited to serve the growing wind energy market in the UK, Europe and overseas with offices in the UK, Germany and the USA.



Clifford McSpadden, Conference Mediator

Clifford is the founder and CEO of CMS Global Ltd, an organisation dedicated to helping others engage and collaborate to "make change happen". The Global Wind Alliance represents the most recent and significant example of this, bringing together leading companies across Europe to offer Total Life Cycle Management of wind farms across the World.



Olivier Gaget, Senior Engineer, Technology & Reliability, RES Group

Olivier is responsible for reliability engineering consisting of failure investigations, SCADA data algorithm development, implementation of focalized technical improvement to enhance the operating assets reliability and not the least, monitoring turbine performance through SCADA data, as well as condition monitoring for all RES operational assets. He began working in the wind industry as an O&M Engineer in 2006 at EoleRES and moved on to RES UK and Ireland in Sept 2007. From June 2008, he has been working as a Turbine Engineer within the Technology and Reliability Engineering department.



Gert Korbijn, Account Manager, Stork Gears & Services

With a background in mechanical engineering and business administration Gert is responsible for the company's customer support and business development activities in the wind industry. Stork Gears & Services are a fully independent and specialized gearbox inspection and repair company and are part of the globally operating Stork Technical Services group.



Sally Shenton, Robin Rigg Site Manager, E.ON Climate & Renewables

Sally Shenton is responsible for all day to day activities and O&M strategies for the windfarm operational base in Workington Cumbria. She has set up and chairs the Offshore Owners Operations & Maintenance Forum (OOOMF), a new subgroup of the Windfarm Owners Forum. Sally has worked in the power industry, on coal and gas fired stations prior to moving into the renewables sector, for the last 20 years. She was part of the team that set up a centralised asset management team for the UK generation fleet where she led on business improvement and a fleet-wide IS strategy.



Carsten Lind Andersen, CEO, Danish Wind Power Academy

Carsten Lind Andersen entered the wind industry in 1989 and worked within installation, commissioning and OMS of wind turbines for almost 13 years before he became an instructor. Since he founded Danish Wind Power Academy (DWPA) in 2004, the employees of DWPA have developed an innovative educational concept for technical personnel at all levels from technicians to back office technical support. Today DWPA's instructors count on more than 60 years of experience together within installation, commissioning and OMS of wind turbines.



Michael Wilkinson, Engineer, GL Garrad Hassan

As a consultant engineer at GL Garrad Hassan Michael Wilkinson works on all aspects of operational wind farm data analysis. He is part of a team that has assessed over 30 GW of operational wind plant worldwide: from monitoring wind farms on behalf of owners to long term energy re-forecasts for investors. Michael led the field study work in the recent EU Reliawind project, which measured in detail the reliability of wind turbines in the UK and Europe. He is a Chartered Engineer with a doctorate in Wind Turbine Condition Monitoring.



Clive Newell, Programme Director, Global Wind Alliance

Clive's experience spans 30 years of manufacturing engineering expertise in the aerospace industry before moving into the wind energy sector where he is the Programme Director for the Global Wind Alliance.



Benn Faulkner, Director, Renewable Advice Ltd

Benn Faulkner is founder and director of Renewable Advice Ltd, who provide technical and practical services to the wind energy industry. Renewable Advice specialise in wind turbine blades and have vast experience of blade manufacturing and the challenges that are faced during operation. Renewable Advice's vision is to develop strong, long-lasting working relationships that truly result in 'lifelong care for your wind turbine blades'.



Maurice Henderson, Asset Management Services, SKF (UK) Ltd.

Maurice is in a team engaged on Business Consulting, Asset and Maintenance Strategy Reviews, RCM, RCA and other analysis, as well as training on these topics. The team carries out assessments and builds value propositions for a client illustrating benefits and then carries out the studies when contracts are awarded. Maurice is a Chartered Mechanical Engineer who has been a Chief Engineer for a number of major companies in the UK and has considerable experience in Computerised Maintenance Management Systems.



Brent van der Merwe, Curriculum Leader - Renewable Energy, Swale Skills Centre

Brent was born and raised in South Africa where he studied to become an Electronic Engineer. He worked in the Engineering Faculty at the North West University, before immigrating to the UK where he furthered his career in engineering education. Brent has recently helped develop the Wind Turbine Maintenance Technician apprenticeship for DONG Energy (UK).

Agenda

Thursday, 18th November 2010

08.15h **Registration of Delegates**

08.45h **Welcome and Preliminaries**

Kevin Donovan, windpower renewable solutions

09.00h **Opening Speech**

Senior Government Spokesperson

09.15h **Making Sense of Your SCADA Data**

Olivier Gaget, RES Group

SCADA data could be the most underestimated tool within O&M, with many companies filing it away rather than learning how to use it to maximise wind turbine performance. This presentation will describe how SCADA data can be used to monitor wind farms to understand downtime, power curve efficiency, temperature monitoring, etc.

09.45h **A Unique Insight Into Gearbox Failures**

Gert Korbijn, Stork Gears & Services

In the last decade, Stork Gears & Services diagnostic department inspected a huge amount of wind turbine gearboxes all over the world, ranging from mainland Europe to the far Pacific. During his presentation, Gert will give a unique insight into the data the company has acquired over the years. Based on hard facts he will share the truth on: what gearbox manufacturer is the best, what kind of damage is most common in wind turbine gearboxes and which turbine model has the least amount of gearbox issues.

10.15h **Delivering Maintenance and Maximising Production - How to Have Your Cake and Eat It**

Sally Shenton, E.ON C&R

This session focuses on the initial operational experience at Robin Rigg and shares the secret ingredients to delivering successful operations offshore. The first 18 months of commercial operations at Robin Rigg has seen world leading performance despite a number of different challenges. Nothing ever happens by magic. Through this real life example, the approach needed to deliver maintenance plans and maximise performance will be shared and show that it is possible to have your cake and eat it...even when the rules of the game are changing in real time....

10.45h **Coffee Break**

11.30h **Dynamic OMS of Wind Turbines - We need Generation Mindset"**

Carsten L. Andersen, Danish Wind Power Academy

There is one important attitude future players in OMS of wind turbines will have to develop...it's called "Generation mindset". Technicians and others involved in operation have to focus on the fact that wind turbines are a power plant and not only a capital investment. Together with this they need to realize that the maintenance of wind turbines will have to be an independent product where people feel ownership and heart for this job. In general the whole industry, wind turbine manufactures, owners and operators as well as 3rd party service providers will have to focus on this very important "Generation mindset". There is no model of good operation from the past. We need to change our attitude to operation to become professional operators.

12.00h **Measuring Real Wind Turbine Reliability - Avoid the anecdotal evidence and focus on the real sources poor reliability**

Michael Wilkinson, GL Garrad Hassan

There is lots of data available at a modern wind farm, from automated 10-minute SCADA and alarm logs to manual contractors' site records and technicians' service reports. A real applied example will show how these discrete sources can be connected to derive reliability profiles to highlight the real source of failures. Understanding wind turbine reliability can help developers and operators to optimize the procurement process, focus the engineering effort and tailor the O&M costs/effort to the real problems in their fleet.

12.30h **Spares Club - How a Strategic Spares Strategy Accessing OEM Parts Is Viable and Available**

Clive Newell, Global Wind Alliance

Access to spare parts is a key reason why wind farm owners stay with an OEM for support, but at a cost. This presentation will show that there is a alternative solution, and how this can influence the strategic decisions around spares stocking and logistics.

13.00h **Lunch Break**

14.00h **Blades: Looking after your most important asset - How to keep your world turning**

Benn Faulkner, Renewable Advice Ltd

No blades: no power. Wind turbine blades are designed for a 20 year operational life, but not without maintenance or repair. There are still many challenges to overcome: the rate of growth of the industry, the increase in size of turbines and the drive to reduce cost. All have an impact on total life-time cost. Determining the right O&M strategy is important to minimise risk and cost, maximise operational efficiency and availability, and can make the world of difference to your bottom line.

14.30h **The Risks in O&M - Asset Management - Process Not Concept**

Maurice Henderson, SKF (UK) Ltd.

The concept of asset management and how it is established within an organisation has to be able to deliver value. It needs a joined up approach which meshes with business drivers and contributes to maximising value and reducing risk. CoMo, RCM and CBM are well used terms but unless they are built into a process which sustains the delivery of generating capacity they will be viewed as a cost and not an investment. What does Asset Management look like? Can it deliver any more than good old Maintenance?

15.00h **The Wind Turbine Challenge - Training and Education in the Renewables Sector**

Brent van der Merwe, Swale Skills Centre

With unprecedented growth forecast for the Wind Energy industry, how do companies ensure that they attract the right talented young people to enter this burgeoning sector? Take a look at a very successful partnership between industry and education/training and what impact this has had.

15.30h **Official Closing of Quo Vadis**

Time for networking

It would not be possible for us to offer our Quo Vadis Forum free of charge without the support of our Platinum Sponsors who contribute towards the costs of the event:



We would like to take this opportunity to say a big Thank You to the Harbour Commissioners Office who have kindly offered us the use of their facilities for **Belfast Harbour** Quo Vadis 2011.

In addition to our main sponsors, following companies have booked exhibition space and will show their products and services:

- Stork Gears & Services
- Morgan Carbon
- Pharos Marine
- Phoenix Contact



Founding Member windpower renewable solutions Ltd. are a founding member of the Global Wind Alliance, an association of global experts in the operation and maintenance of wind farms which brings together some of the finest components manufacturers and experienced engineers from the wind industry and beyond.

