



Quo Vadis 2018 Wind Energy Conference

“Question of Perception” and
Pre-Event Dinner on
Wednesday, 19th September 2018
Conference on
Thursday, 20th September 2018

Crowne Plaza Hotel
Congress Road
Glasgow G3 8QT, United Kingdom

12th **Quo Vadis**[®]
Conference

The FREE wind conference
only for Owners and Operators

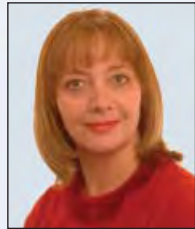
WRS GmbH
windpower renewable solutions



WRS GmbH
Windpower Renewable Solutions
Fernichweg 10
74842 Billigheim-Sulzbach, Germany
Tel. +49 6265 927 5001
Fax +49 6265 927 6454
sigrid@wrs-de.com



The Speakers



Sigrid Donovan, Director; WRS GmbH Windpower Renewable Solutions

Sigrid has been involved in Marketing almost all her work life. For nearly 20 years she worked as Marketing Manager EMEA for a big US manufacturer of motors, gearboxes, and power transmission products. After her move to England she got involved in the wind industry together with her husband Kevin and in 2007 had the idea to create a conference solely for wind farm owners and operators. She has been serving customers in Europe and beyond ever since, first with their company windpower renewable solutions Limited and, since their return to Germany with her German company WRS GmbH windpower renewable solutions.



Huw Smallwood, Director; Tegni

Huw has been involved with renewable energy since 1992 when he was in charge of the construction of the largest wind farm in the UK at P&L in Mid Wales. 103 turbines but only 30 MW! He is a chartered civil engineer and has been involved in the construction industry for many years. He worked on the Foyers pumped storage scheme in Scotland and also the 1,800MW Dinorwig pumped storage scheme in North Wales. He then was involved in in situ reinforced concrete works on many different projects. For the last 20 years he has spent most of his time developing, building and running wind farms predominantly in Wales. He has four wind turbines at home which have been running for 20 years and is presently looking at a phased repowering programme. In his spare time he is in his workshop building cars, or on his bike.



Stuart Egan, Head of Site Operations; Natural Power

Stuart has over 20 years of operational experience holding senior positions within a number of industry sectors including renewable energy, waste management, managed services and quarrying. Stuart currently has responsibility for all sites under Natural Power's operational control, and has been instrumental in the growth of its independent servicing team that now numbers over 30 full time staff covering UK and Ireland.



Keir Harman, Director and Regional Head of Asset Operations and Management, DNV GL

Keir is Director and Regional Head of Asset Operations and Management at DNV GL (formally Garrad Hassan). He has worked in the wind energy industry for 20 years spending the past 15 years founding, developing and running the global operational wind farm services for Garrad Hassan. This is now a key business area within DNV GL. Keir has expanded DNV GL's capability to full operational management and control room services. He manages a team responsible for many aspects of renewable operations including asset management, inspections, performance monitoring and energy forecasting. Before joining Garrad Hassan, Keir worked for Innogy (RWE). A Chartered Engineer, Keir holds an MSc in Renewable Energy Systems from the University of Loughborough, UK.



Jon Beresford, Performance Manager UK Offshore Operations, E.ON Climate & Renewables

Jon has 36 years' experience in the electricity industry. He worked for E.ON at several coal fired plants as a senior maintenance engineer. In 2006 Jon became Plant Manager of two onshore wind farms and Scroby Sands, the UK's first consented offshore wind farm. He managed the site from the comfort of the OEM warranty into a strategy of self-perform, with all O&M services brought in-house. In 2013 Jon became the Plant Manager of Humber Gateway Offshore Wind farm where he successfully put into place the operational infrastructure and O&M Teams and took the site from construction into its third year of operation. During the last year Jon has had the role of Performance Manager, where he puts to good use his long offshore experience, driving indicatives and projects across the UK and Continental European offshore fleets.



Paul Sheldon, Technical Engineer; Innogy

Paul joined RWE in 2000 and has been involved in renewable energy since 2004. Starting his career as a Mechanical Engineer in the steel industry, he went on to design, install, refurbish and commission gearboxes. He graduated from Sheffield Hallam University with a MBA after successfully completing an HND in Mechanical Engineering and a post-graduate Diploma in Sales & Marketing. Paul is now responsible for all aspects of O&M for the newly built onshore wind farms with a high focus on safety, availability and commercial issues. The role involves direct responsibility for representing Asset Management & Operations interests during development and construction of wind farm sites in the UK and Ireland. Since our last conference in London he has celebrated the first birthday of his cute little granddaughter.



Fabrice Drommi, Business Development CMS Wind Industry; SKF

Fabrice Drommi, holding a Maintenance & Electrical Engineering degree, has been working for 18 years at SKF. Before joining the Wind Industry he has been working as Condition Monitoring specialist for sales and delivery of systems and projects to various industries. In the last 5 years he has been responsible for the Global Wind CMS Business Development and strategy implementation. Fabrice is based close to Paris in France.



Sally Shenton, Director; Generating Better

Sally is Founder/Director of Generating Better and has worked in offshore wind operations for over a decade including hands-on operational management, undertaking due diligence for new investors and supporting projects to develop O&M strategies that deliver value and manage risks. She was involved in the first OFTO transaction and has developed and delivered OFTO O&M services. Sally chairs the ORE Catapult Offshore Wind O&M Forum and is passionate about sharing knowledge to improve the industry and increase its viability and rate of growth. Sally worked for Powergen and E.ON for 23 years and was Ops Manager at the Robin Rigg windfarm. She now runs a specialist O&M consultancy that focuses on the renewables sector with particular expertise in the planning and implementation of O&M for offshore wind.

Agenda

09.00h Welcome and preliminaries

Sigrid Donovan
(Host and Organiser)

09.10h Concrete, the hard facts

Huw Smallwood, Tegni

Concrete is at the heart of just about every major project in the world, but who really understands how it works. Forming concrete structures on site compared to steel structures being manufactured in a workshop environment is comparable to the circus and the theatre. The object is to avoid the former. Treated correctly, concrete is a dream to work with, but if simple rules are not followed it can easily become a nightmare. Some of the basic principles will be explored along with some simple rules that should be followed when forming in situ concrete.

09.35h Wind farm performance optimisation

Stuart Egan, Natural Power

As the pressure to drive down operational costs continues, Natural Power has taken a predictive approach to its servicing offering. By drawing upon strategic inspections and performance engineering and the way its established site teams work in tandem with its analytics and Controlcentre teams, it is able to ensure that turbines are prioritised, faults are identified at an early stage and performance is optimised. Since taking over the role as independent service providers for a number of key sites, Natural Power has been able to realise significant cost savings for its clients. This presentation will take you through some of the highlights.

10.00h Break for coffee, exhibition, networking

11.00h Operating in a Subsidy Free Market – the age of flexible and dynamic wind farm operation

Keir Harman, DNV GL

The destiny of wind farm operations relies upon an ability to meet the cost of energy needed to operate in subsidy free markets while meeting the additional challenges that unprecedented levels of renewables on grid networks brings. At the same time as capex and opex is reducing, the energy captured over the lifetime of the assets must increase. New developments in the approach to dynamic operations can drive up energy capture and increase lifetime. Implementing power-plant closed loop control, including wake steering, increases energy whilst significantly reducing fatigue loading and ultimately extending life. Real-time communications, advanced data analytics and accurate forecasting unleashes the capability for the turbines to operate as a flexible power-plant.

11.25h HV Cable Faults – Be prepared, a fleet approach

Jon Beresford, E.ON C&R

Developing fleet approach to preparing for HV fault, particularly cables. Looking at spares, framework agreements, etc.

11.40h Quo Vadis Hall of Fame

Sigrid Donovan

12.00h Lunch break

13.30h Tower and blade fasteners

Paul Sheldon, Innogy

How can we be sure maintenance procedures are being fully implemented? The presentation will highlight the importance of ensuring procedures are being followed when critical fasteners within turbines are involved. Making assumptions that they are being followed is not only risky but can be dangerous.

13.55h Insight on how to improve wind turbine drive train reliability

Fabrice Drommi, SKF

What if there was a way to proactively assess costs, risks, opportunities and benefits that would have a positive impact on the Levelized cost of energy? This presentation will go through performance of wind assets depending on the operators respective drivers, and overall reliability figures from wind industry with respect to major components. We will assess how to address those major drive train components exchanges, having reliability and cost improvement in mind.

14.20h Break for coffee, exhibition, networking

15.00h Threats and Opportunities to the 3rd party supply chain from the CfD Auction Process

Sally Shenton, Generating Better

Whilst the industry is buoyed by continued support for offshore wind in recent CfD announcements the continuing price reductions may present risks as well as opportunities for 3rd party O&M suppliers. In this presentation we will hear about the risks from long development timescales, increasing technological changes and the structure of financing as well as the potential opportunities for local, regional and national O&M supply and service companies in the years ahead. The audience will also be invited to take an active role in suggesting ways that benefits can be delivered and challenges overcome.

15.25h WRS GmbH Introduction

Sigrid Donovan, WRS GmbH

15.40h Summary

Kevin Donovan

16.00h Official closing of Quo Vadis 2018

A hearty welcome to Glasgow from your host



Sigrud Donovan

Sigi and Kevin Donovan got involved in the wind industry some 15 years ago, and they founded WRS GmbH to serve the growing wind energy market in the UK, Europe and overseas with an office and warehouse in Germany. Sigi had the idea of a wind conference held exclusively for owners and operators. Thus Kevin and Sigi hosted the first Quo Vadis Conference in 2007. It was named after Kevin's presentation "Quo Vadis, Wind Energy?" (Latin for "Where are you going, Wind Energy?")

The conference is now in its twelfth year and is recognised by wind farm owners and operators as one of the most important and valuable events in the wind industry.

The history of Quo Vadis Conference



A big Thank You to our co-host, sponsors and exhibitors

It would not be possible for us to offer our Quo Vadis Conference free of charge without the support of our Co-Host Natural Power and our Platinum Sponsors DNV GL and SKF who contribute towards the costs.



In addition, the following companies have booked exhibition space and are showing their portfolio: Barton, GasTOPS, Hove, Ingeteam, Renewable Advice, Schunk UK, Winergy, and ZF Services UK.

