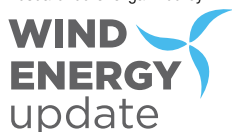


Researched & Organized by:



7th Annual

Wind Energy Operations & Maintenance Summit, USA

14-15 April, 2015, Westin Galleria, Dallas, TX

SAVE \$200

When you register before February 20th

"I was impressed with the quality of the presentations and ability to network in an open and frank manner with other similar participants (i.e. owners)"
Pacific Hydro

OPTIMIZE YOUR ASSET AND ENHANCE PERFORMANCE WITH COST EFFECTIVE SOLUTIONS

- 450+ decision makers • 60+ expert speakers
- 40+ tailored sessions • 3 dedicated tracks
- 25+ exhibitor hall • 20 hours of networking

THE FOCUS THIS YEAR:

- **Performance Enhancement:** Increase reliability and reduce downtime to get more power out of the asset for higher return
- **Gearboxes:** Reduce chance of gearbox failure through service and engineering developments to avoid high repair costs
- **Blades:** Improve the efficiency of blades for better wind capture using new tech and retrofits
- **Life extension:** Analyse available data coming off wind farm to improve and extend the lifetime of the asset
- **Asset Management:** Explore management, finance and planning strategies within the changing O&M market
- **O&M Strategy:** Discuss multi sourcing, relationship and contract management service agreements in a post-warranty setting

NEW for 2015:

#OMDALLAS15



AWARDS CEREMONY & GALA DINNER to celebrate O&M excellence



FULL WORKSHOP DAY including brand new Brazil workshop



ON SITE POLLING with real time data offering exclusive market insight



3 TRACK AGENDA covering O&M Strategy, Asset Optimization and Technology Updates



POST CONFERENCE REPORT to ensure you go back to the office fully equipped

Expert technical & commercial speakers include:



2015 sponsors that have already signed up:

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Gold Sponsors



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Networking Drinks Sponsor



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Event Sponsors



Exhibitors



Welcome to the 7th Annual Wind Operations & Maintenance Dallas Summit, 2015

This is a pivotal time for wind energy in the USA. With a record number of turbines coming off original OEM warranty, it is the time for wind farm operations and maintenance (O&M) to come to the fore and shine.

As a number of large owners move towards the self-perform model, OEM's and ISP's are left to re-define their place in the market and question who the new customer is and owners question how will you adapt to what we need?

This situation means that those tasked with maintenance, repair, and operation (MRO) now find themselves in an increasingly competitive environment.

Innovation is the key to reducing the levelized cost of energy (LCOE), and the market demands rapid cost reduction based on field experience and proven operational strategies.

By bringing together over 450 of the leaders and decision makers from across the industry, this summit aims to showcase the mix of innovative thinking and real-life best practice that is emerging among top O&M companies.

Our aim is to demonstrate what the industry is capable of, provide cutting-edge insight into challenges that remain to be resolved, and an analysis of the strategies that top players are putting in place to deal with them.

Hottest industry topics at O&M Dallas 2015

- **Reduce the cost** of your operational maintenance for maximum ROI
- **Optimize performance** using latest equipment technology
- **Main component strategy** to reduce failures on gearboxes, blades and generators
- **Upgrades & retrofits** to extend the life of your
- **Improved strategies** for data gathering and analysis
- **Strategic solutions** for post warranty management
- **Latest on health and safety** to better manage your team

With the likes of Acciona, AES, Alliance Power, Broadwind, Duke Energy, EDF Renewable Energy, EDPR, Iberdrola, Infigen, NextEra, Pattern Energy, Romax Technology and Siemens in attendance we can guarantee you will walk away armed with new ideas to strengthen your O&M strategy.

Reserve your place amongst the key industry decision makers and thought leaders today! Book now to take maximum advantage of our early booking discounts via our website:

www.windenergyupdate.com/operations-maintenance-USA or, the registration form enclosed in this brochure.

I look forward to meeting you in Dallas this April!



ELIZABETH DEMESTIHA, Project Director

elizabeth@windenergyupdate.com

1 800 814 3459 ext 7537 (US/CA)

+44 (0)20 7375 7537 (Global)

Top-Level thought-leaders discuss the latest challenges, innovations and trends:



Mike Peck,
Director - Asset
Management,
EDP Renewables



Sandeep Sharma,
Senior Manager –
Renewables,
**Capital Power
Corporation**



Aaron Wahlstrom,
Blade Services –
Sales Manager,
Broadwind Energy



Dan Shreve,
Partner,
Make Consulting



Grayling Vander,
Velde,
Principal Safety
Specialist, **NextEra
Energy Resources**



Larry Barr,
VP of Operations &
Maintenance,
**EDF Renewable
Services** (invited)



Mike Grunow,
Vice President of
Sales and Marketing,
Moventas



Vinod Mukani,
Director – Project
Finance North
America,
Deutsche Bank



Jason Schroeder,
Managing
Director – Field
Services, **Iberdrola
Renewables LLC**



Nick Malmos,
Senior Account
Manager,
Gamesa Wind US



Paul Idziak,
General Manger,
Shermco Industries



Martin Ramsusch,
CEO,
**Windar Photonics
A/S**



Jeffrey Wehner,
Vice President of
Operations,
Renewables,
**Duke Energy
Corporation**



Peter Wells,
CEO,
UpWind Solutions



John Coultate,
Head of Monitoring
and O&M
Consultancy,
Romax Technology



Tony Giustino,
Head of
Operations,
sgurr energy

Unrivalled Networking with the Most Influential Crowd in the Business

O&M Dallas is renowned for bringing 450+ wind energy decision makers into a comfortable environment to allow partnership opportunities to develop and for you to broker the next big deal.

2 MONTHS OF EXCLUSIVE NETWORKING: INTERACTIVE DELEGATE LIST TO ARRANGE 1-2-1 MEETINGS



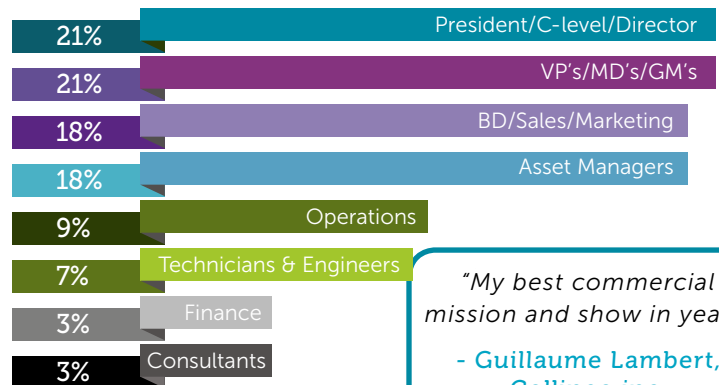
Our exclusive Online Networking Center means you can personally and directly contact all conference attendees pre and post event

Look who you could be networking and doing business with:

O&M Dallas has attracted thousands of senior level decision makers from all stakeholder groups making it the #1 meeting point in North America for O&M related business intelligence

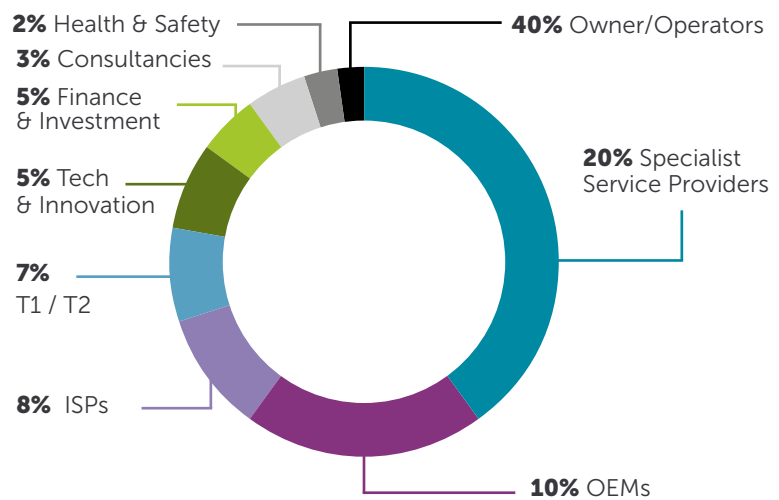


Job functions that have attended include:



"My best commercial mission and show in years"
- Guillaume Lambert, Collineo inc.

Company types that have attended include:



"I have attended 4 of the summits in years past and they always provide the most recent current events and information. It is completely focused on real problems in real time with true consequences"
- James Moorman, Lapp USA

Why you can't afford to miss O&M Dallas 2015:



Be empowered with solutions – we're told to come with solutions not problems – so it makes perfect sense to speak with the specialists that can help in our 25+ exhibition hall and understand the specialised solutions available to your O&M challenges



Tailor the agenda to your specific needs – with 45+ sessions in 3 dedicated tracks covering Main Components, Life Extension, Asset Management, Power Enhancement, O&M Strategy, Contract Management & more - you're guaranteed to walk away able to take the next steps to drive your business strategy forwards



Strengthen your business network within the O&M community – with 20+ hours of networking designed to ensure you get face-to-face time with the industry's decision makers, we have pulled out all the stops to ensure that you don't just connect on a business level, but you connect on a social level too



Get a handle on where the O&M market is now – Who is the new customer in the O&M market? What role will the ISPs play going forwards? How will OEMs change their model to stay in business? What is the industry doing to be proactive and not reactive? With real time data polling on site, these are the answers you'll walk away with

This is the first draft agenda - we are continuously updating the agenda with new speakers and sessions - check the website for all the latest news

PRE CONFERENCE WORKSHOPS

ELECTRICAL SAFETY AND NEW REVISION OF THE NFPA70E

The 2015 Edition of the NFPA 70E Standard for Electrical Safety in the Workplace is hot off the press and in effect. What changes have there been since the last addition and how does this affect your electrical safety program? Join Jim White, director of training for Shermco Industries and a member of the NFPA Technical Committee for NFPA70E, for this presentation on the significant changes that you should incorporate:

- Overview of electrical safety statistics
- What is NFPA 70E
- PPE changes
- Approach boundary changes
- Update Arc Flash tables
- Temporary grounding rule changes
- Equipment labeling

Jim White, *Director of Training, Shermco Industries*

[CLICK HERE for more details on the workshop...](#)

PRACTICAL GUIDE TO DRIVETRAIN O&M

Romax will present some of the industry's main challenges and solutions that exist for effectively operating and maintaining wind turbine drivetrains.

Practical examples from the field are used to demonstrate real-world 'best practice' for the End of Warranty process and how best to extract value from Condition Monitoring Systems (CMS). Drivetrain specialists will explain how to manage and diagnose common drivetrain problems such as premature bearing and gear failures. All O&M topics eventually come down to economics, so the workshop will conclude by addressing how to understand financial risk and effectively forecast future maintenance costs for a plant.

- End of Warranty - Best Practice and Examples
- Practical Condition Monitoring
- Managing the "Top 5" Drivetrain Problems
- Assessing financial risk and forecasting future costs

John Coultate, *Head of Monitoring and O&M Consultancy, Romax Technology*

[CLICK HERE for more details on the workshop...](#)

TURBINE OVERHAUL AND LIFE EXTENSION

This course is applicable to turbine owners who are interested in deriving more energy production and design life from an existing wind producing assets through a variety of Overhaul and Life Extension possibilities. Whether you are an owner of an existing asset, or are interested in acquiring distressed assets seeking a profitable business case, this workshop will inform you of what ought to be considered to derive the most profit and life from your aging wind energy generating asset. Topics of this workshop will include:

- Overhauling in a non-PTC environment
- Strategies for managing power output
- Medicine Bow Wind Farm – The first overhaul of its kind in the USA

Nick Malmos, *Senior Account Manager, Gamesa*

[CLICK HERE for more details on the workshop...](#)

BREAKOUT SESSION: HEALTH AND SAFETY

WHAT IS NEW IN THE WORLD OF WIND SAFETY COMPLIANCE

The Health and Safety Session is designed to update and educate wind farm operations personnel on current safety issues. What they need to know to operate safely

- Changes to 1910.269 and how they affect you
- Improving safety using new technologies
- Exploring Regulatory compliance and wind standards
- Stop the drop – reducing dropped objects
- How do I take advantage of the experience of others in the wind industry?

Grayling Vander Velde, *Principal Safety Specialist, NextEra Energy Resources*

John Boyle, *Senior Manager - Health and Safety, Infigen*

Todd Karasek, *Vice President of Environment, Suzlon Wind Energy Corp*

Mike Kelley, *Director of Environmental Health & Safety, UpWind Solutions*

Mike Schmidt, *Field Services Manager, Windigen*

[CLICK HERE for more details on the HSE breakout session...](#)

KEYNOTE SESSIONS

CHAIRMAN'S OPENING SPEECH: O&M MARKET UPDATE: WHERE ARE WE NOW

As installation slows down the limelight is on operations & maintenance – going forwards operators will be assessing how to best enhance performance, extend asset lifetime, increase reliability of key components and better interpret data

- Discuss feedback from the last 12 months, share insight on new lessons learnt and establish what worked and what we still need to improve
- As users become more confident and more educated within the industry an increasing number are moving to a self-perform model – what does it mean for the O&M market and who will it impact?
- What is the industry doing to be more proactive and less reactive and what are service providers doing to change their model to stay in business

Dan Shreve, *Partner, Make Consulting*

KEYNOTE OWNER/OPERATOR SESSION

Details to follow

ASSET MANAGEMENT PHILOSOPHY – PRICING UP THE COST/VALUE OF YOUR O&M PROGRAM

Asset management philosophy – pricing up the cost/value of your O&M program

- Hear what you can do about rising O&M costs and how you can change out your maintenance program to see increased revenues
- Understand the importance of analysing asset performance to mitigate the risk of future cost overruns
- Implementing an effective post warranty asset management strategy that ensures you keep moving forwards

Mike Peck, *Director – Asset Management, EDP Renewables North America*

Gerrud Wallaert, *Vice President – Regional Operations, E.ON Climate & Renewables*

Jamie Rafferty, *Vice President – Operations & Maintenance, Invenergy (invited)*

ENSURING O&M EXCELLENCE IN AN EVOLVING MARKET

Right from the beginning of a project's life cycle, picking the right O&M strategy is critical. During development, do you focus on lowest project cost, or lowest life cycle cost? What type of Warranty and O&M service package do you want? Delivered by who and for how long? How do you ensure your O&M solution stays current with best practice and continuously delivers Improved Production, Lower OPEX and Longer Asset Life? Does locking in a long term solution help or hinder the economics of your project?

- Discuss O&M Strategy from commissioning to end of life, what are your options and key considerations?
- Operational Excellence ...what is required and who can deliver it?
- What is Reliability Centered Maintenance and how can it be implemented?
- Technology Innovation ...what is available today and what might be next, when it comes to new approaches on O&M?
- Customer Value ...can it be defined, measured and delivered?

Peter Wells, CEO, UpWind

THE LATEST IN TECHNOLOGY EQUIPMENT AND NEW INNOVATIONS TO OPTIMIZE TURBINE PERFORMANCE

- Understand how to use the latest O&M retrofits to optimize your blade performance and improve wind capture
- Learn how service providers can implement technology to ensure effective gearbox monitoring and avoid catastrophic failures
- Review the O&M market in 2015 and discuss which technologies and new innovations will enhance performance and increase the capacity factor

Bruce Neumiller, CEO, Gearbox Express

Christophe Lepaysan, CEO, Epsiline

John Ugland, Technical Account Manager - Condition Monitoring Systems, Renewable NRG Systems

James Moorman, Wind & Energy Manager North America, Lapp USA

Gary Karnaby, Director of Sales & Marketing, Wetzels Engineering

Toni Conti, Regional General Manager, NextEra Energy Resources

PANEL SESSION: OEM'S AND ISPS: HOW IS THE SERVICE MARKET EVOLVING

- As the role of the ISP changes how are they evolving to stay ahead, are they taking on more of a partner status and which new innovations will keep them at the cutting-edge
- What are the OEM's doing to address complaints about pricing on service agreements and extending warranty agreements?
- What are service providers doing to drive down cost and improve quality

Jason Eddy, VP Services, Midwest Region, Broadwind Energy

Jeffrey Wehner, Vice President – Operations for Renewables, Duke Energy Corporation

Peter Wells, CEO, UpWind

Thomas Konvalina, Head of Warranty Management, Siemens

Nick Malmos, Senior Account Manager, Gamesa Wind US

GE – speaker tbc

TRACK 1 – MAIN COMPONENTS AND TECHNOLOGY UPDATES

TURBINE PERFORMANCE ENHANCEMENTS

- How can we benchmark existing performance of equipment and ensure it gets to the expected level of performance and beyond
- Considering latest retrofits and upgrades what can we change about the turbine from its original specifications to enhance performance
- Software enhancements and physical enhancements

Director, Performance Services, BP Wind Energy – under consideration

PAST, PRESENT AND FUTURE OF UP-TOWER REPAIR

- Understand how more and more repairs can be done up-tower and gain a summary of the State of the Art technology available
- Hear how up-tower repairs can ensure cost reductions and save tens of thousands of dollars on O&M expenditure
- In the future, innovators will come up with solutions to even more complex challenges take a look at the next 5 years of up-tower

Mark Eagle, General Manager, Moventas

WHY DO GEARBOXES FAIL PREMATURELY...AND WHAT CAN BE DONE ABOUT IT?

As numerous gearboxes hit the 6-8 year mark they will need replacement and refurbishment, what are the options?

- Overview of the 5 common causes of failures from the premature to wear related
- Discussion on remanufacturing specification and its influences both on reliability and cost
- RCA example and how the lessons learned were applied to make specific upgrades

Bruce Neumiller, CEO and Founding Partner, Gearbox Express

WHAT DO WE KNOW ABOUT BLADES AND WHAT DO WE STILL NEED TO LEARN

- Discuss how as gearboxes become more consistent and engineering reliability improves, the focus for main components needs to move to blades
- Understand how you can leverage knowledge into a more programmatic approach and look at blades the way we have looked at gearboxes
- Gain insight on key issues affecting blades and identify which new technology and equipment will help to improve performance, maintenance and repair when needed

Olen Richardson, Vice President –Blade Services, Broadwind Energy

ASSET PRESERVATION: BLADES

- Hear how to improve the inspection on blades using new equipment to identify issues early, minimize major failures and reduce related costs
- Understand how to develop a checklist of what needs to be done before you get out of warranty
- Learn what new equipment and evolutions of existing technology can be used to minimize risk concerning blade failure

Ville Karkkolainen, Managing Director, BladeFence

"This conference provides a clear view of the trends, challenges, and opportunities of the O&M spectrum"

- Enrique Ventura, (Siemens Energy)

BLADE OPTIMIZATION

- Hear the latest on what is causing major blade failure, how it affects the end users financially and how we can work smarter in our approach to blade protection
- Discuss the latest in trends and similarities regarding blade failures across wind farms – why are some turbines more susceptible to failure than others
- What blade upgrade systems are available and do they work?

Session Available

MAIN BEARINGS AND LIFE EXTENSION

- Given what's available in terms of technology and equipment, what can you do to extend the life of main bearings?
- If you can't extend the life of your main bearings then how to you get maximum return – running harder vs. running less
- Explore solutions for the improved maintenance of main bearings to ensure a reduction in the cost of repairs

Timken – details tbc

PREDICTIVE MAINTENANCE: LOW SPEED FAILURE MODES DETECTION

- Learn how to detect developing faults early on planetary stage to plan maintenance and save costs
- Hear about the importance of collecting TWF's to better understand the characteristics of planetary stage failure modes
- Understand the complexities associated with analyzing a particular frequency related to the low speed stage
- Understand the complexities associated with analyzing a particular frequency related to the low speed stage

Reynir Hilmisson, *Lead Global Remote Monitoring and Diagnostic Engineer, Brüel & Kjær Vibro*

LESSONS LEARNED FROM A LARGE SCALE CMS INSTALL

- Project management: hands-on structuring principles
- Installation challenges: including dealing with local site "cultures", communication strategies, and data base preparation
- Benefits achieved

Brian Hill, *CEO, Bachmann*

TRACK 2: ASSET OPTIMIZATION & LIFE EXTENSION

WIND FARM PERFORMANCE ASSESSMENT AND OPTIMIZATION TOOLSET

- Turbine Upgrade Performance Validation Applied Experience
- Quantification of Icing Impacts during Turbine Operations
- Creation and application of actionable information from the combination of systematic reporting and real-time turbine performance monitoring

Nick Johansen, *Commercial Operations System Engineer, Iberdrola Renewables, LLC*

DRIVETRAIN PROBLEMS AND PREDICTIVE MAINTENANCE

Hear about the "Top 5" drivetrain problems which many operators currently face, along with solutions to overcome these challenges and understand how to enable a predictive maintenance approach

- Gain insight on how to manage machine failures quickly and effectively, drawing on failure case studies and recent examples of condition monitoring, root-cause analysis and teardown inspection findings
- Too much data but not enough information from SCADA
- How to leverage oil analysis data to better understand the health of operating assets
- Effectively monitoring plants with no CMS using portable equipment
- How to forecast and predict component failures

John Coultate, *Head of Monitoring and O&M Consultancy, Romax Technology*

"The seminars spur industry leaders on to analysis and conversation of topics along the full wind O&M value chain, tremendously valuable information for investors"

- Sean R Sullivan, (Crew Energy, LLC)

UVIG PANEL SESSION: OPERATING PRACTICES GUIDE BOOK

Utilities and IPP's each own and operate wind generating assets however have very different financial structures and therefore O&M philosophies. Utility and IPP members of UVIG will discuss operational philosophy and their interest in benchmarking initiatives. The panel will discuss:

- Post-warranty – what do you need to know at the end of warranty to drive decisions?
- How will the O&M market evolve going forwards as owner operators choose to self-perform or contract for services?
- How can the service market better service owner/operators – what do they need?
- Benchmarking performance – what do owner/operators expect to learn that will drive O&M decisions?

Led by Steven Gilbert, *O&M Users Group Chair, Utility Wind Integration Group (UVIG)*

Ed Henderson, *Wind Operations Leader, DTE Energy*

Ninoshka Maldonado, *Asset Engineer, EDF Renewable Energy*

E.ON PRESENTATION

Gerrud Wallaert, *Vice President – Regional Operations, E.ON Climate & Renewables*

CASE STUDY: TURBINE UPGRADES

Hear how Gamesa upgraded an entire fleet of turbines, managed 10% more output and extended asset lifetime of key components.

Nick Malmos, *Senior Account Manager, Gamesa Wind US*

DEVELOPMENT AND TEST OF A FILL-FOR-LIFE WIND TURBINE GEAR OIL

- Viewing your wind farm gear oil as a lifetime asset
- Ability to benchmark and trend additive depletion
- Combining oil analysis, additive depletion and scada data as a predictive analytics tool

Frank Magnotti, *CEO, Fluitec*

PANEL SESSION DRIVING DOWN THE COST OF ENERGY

We must recognize that there will be a cut in demand in the US market and the aftermarket will become ever more important in the coming years

- If you have strong availability how do you lower costs? Hear how key service providers will deliver to get costs down
- Identify what is changing as machines get bigger and establish if it is cost or reliability that matters more
- Discuss the latest innovations will drive down cost

Panelist details to follow

SQUEEZE YOUR DATA! HOW MERGING BIG DATA TECHNIQUES WITH DEEP EXPERTISE INCREASES YOUR BUSINESS' RESULTS

- WHY: because with the already existing information of your assets we do really increase the productivity and revenue of your business
- WHAT: proven technology and measurable results. Real example of big savings. Anticipate catastrophic failures, reduce downtime significantly and quick ROI
- HOW: explain how big data techniques optimize your O&M strategy to get out the best of it

Alvaro Campuzano, *Wind Portfolio Developer*, **NEM Solutions**

BIG DATA: ANALYSIS, IMPROVED PERFORMANCE AND BENCHMARKING AGAINST YOUR PEERS

All turbines have data but what do you do with it and how can you leverage IT hardware to put knowledge back into the hand of engineers and drive better reporting to result in enhanced performance

- Hear what owners are doing successfully with data to benefit the industry and learn how to analyse data to improve the asset and ensure the asset performs better
- Hear how you can improve the analysis programs and engineering tool kits and understand what we need to analyse further, what data tags matter and how we can evolve
- Discuss how if projects are based on competitive benchmarking, how do we share data as industry to create a standard to measure up against your peers?

Carsten Westergaard, *Senior Advisor*, **Sandia National Laboratory**

DATA INTERPRETATION

- Share insight on how you are interpreting data and the best way to work with what you have in order to set a minimum expectation
- When it comes to performance, understand what assumptions are being made when comparing data and what is actually happening
- Can we benchmark data across the industry to create a standard for performance and what might this look like

Biren Ghandi, *Renewable Energy Solutions Leader*, **IBM**

TRACK 3: O&M STRATEGY AND ASSET MANAGEMENT

ASSESSING SERVICE PROVIDER CAPABILITIES ... A STRUCTURED QUANTIFIABLE SERVICE QUALIFICATION PROGRAM

There is currently no standardized way for stakeholders to ensure that a Service Provider is well qualified. Hear about DNV GLs latest work on developing a qualification program that can be used by Developers in RFQ/RFPs, Owner/Operators to evaluate current service, Financial & Investment community in IE checklists, Insurance carriers to ensure appropriate service and Independent Service Providers to assess/improve their programs:

- Hear how key functional areas with specific criteria can be established and evaluated, resulting in a quantified rating in each area
- Understand how future adoption and further development will include a more data-driven/metric-based performance assessment framework and a more formal/official Certification program
- Learn more about future adoption and further development, that will include a more data-driven/metric-based performance assessment framework and a more formal/official certification program; and will likely be driven by the Financial/Investment community, Insurance stakeholders as well as progressive proactive Owner/Operators and Service Providers

Darrell Stovall, *Principal Engineer*, **DNV GL**

INVESTIGATING ALTERNATIVE BUSINESS MODELS AS A SMALLER OPERATOR

- Explore the advantages and disadvantages of different O&M models – hybrid vs straight ISP model
- Understand the types of issues that arise such as strained communication, decreased availability, decreased reliability and how they impact on performance
- Gain insight on how a cost savings approach is not always enough to warrant management strain of hybrid approach due to a lack of resources as smaller operator ~

Ryan McGraw, *President*, **Orion Renewables**

PANEL SESSION THE ROLE OF THE INVESTORS AND WHAT THEY NEED TO KNOW

Investors are increasingly taking on physical ownership of the assets, what is their relationship with the O&M market and what are their key objectives?

- Gain insight on what investors look for in a project from a service perspective, what the criteria are to take decisions regarding capital investment
- Post PTC" period and post warranty dynamics – how can you maximize value by investing in a good O&M program and what is the dollar impact if O&M is not done
- Understand how you value a portfolio of assets when warranties are expiring and what the operational approach is off the back of valuation

Led by: Vinod Mukani, *Director – Project Finance*, North America, **Deutsche Bank**

Jason Allen, *Asset Management Leader*, **Google**

TerraForm, Pattern Energy, Sowite

EMERGING TRENDS IN ASSET MANAGEMENT

- Evolving definitions of Asset Management in today's marketplace
- How to choose which model works best for you (in-house versus 3rd party, AA & O&M wrap with one provider, hybrid approach)
- Risks and benefits of each model
- How to choose a service provider

Larry Freeman, *Business Development Manager – Asset Administration*, **EDF Renewable Services**

LIFE AFTER THE CONTRACT

- How can you align your goals with an OEM as an owner to ensure a smooth transition post warranty (considering examples of good transitions vs bad transitions)
- How can you reward an OEM and benchmark their performance across the fleet to make a more informed decision when purchasing new turbines
- Using transparency to improve the OEM/ Operator relationship

Jeffrey Wehner, *Vice President of Operations, Renewables, General Manager, Duke Energy Corporation*

THE IMPACT ON O&M WHEN MANAGING A LARGER PORTFOLIO OF ASSETS

Gain critical insight on increasing your portfolio size and how you calculate the liability systems; understand how you can better manage your O&M efforts and the role that the OEM's play and how you can leverage off them

- Operational processes - Important to have program in place to manage all operation processes; standardizes approach, auditable process, efficient execution
- Preventive maintenance program – Helps to mitigate future losses, keeps system reliable and organizes strategy to maintaining equipment
- Records management – manages the history, auditable records, fosters improvements

Sandeep Sharma, *Senior Manager – Renewables, Capital Power*

Chris Shuggart, *Vice President Operations, Pattern Energy*

INSURING THE INDUSTRY GOING FORWARD

Hear from leading insurance under-writers who are offering a post warranty insurance product and understand the benefits of what they are presenting, what is working and what stats are available in support.

GCube – details tbc

"This conference provides a clear view of the trends, challenges, and opportunities of the O&M spectrum"

- Enrique Ventura, (Siemens Energy)

PREDICTIVE MAINTENANCE: LOW SPEED FAILURE MODES DETECTION

- Learn how to detect developing faults early on planetary stage to plan maintenance and save costs
- Hear about the importance of collecting TWF's to better understand the characteristics of planetary stage failure modes
- Understand the complexities associated with analyzing a particular frequency related to the low speed stage
- Learn about the benefits of utilizing modulation techniques to supplement traditional vibration based failure mode detection

Reynir Hilmisson, *Lead Global Remote Monitoring and Diagnostic Engineer, Brüel & Kjær Vibro*

THE ECONOMIC CASH FLOWS OF DRIVETRAIN CONDITION MONITORING

- Outlining the business as usual economics and comparing them to the economics using conditions monitoring
- How conditions monitoring and uptower repairs have a symbiotic relationship
- How leasing Conditions Monitoring equipment and services remove upfront expenses.

Mike Grunow, *Vice President of Sales, Moventas*

PANEL SESSION: WORKING IN A COMPETITIVE MARKET

Discussion on the competitive scene between ISP's and OEM's long term service contracts

- Discuss the best metrics to use when deciding on an ISP and evaluating an ISP to establish a standardised metric scoring for service providers
- In a highly competitive market what are the different ways that we can measure performance and how can we better quantify services
- Based on data analysis and performance how can you make the most informed decision when purchasing a new turbine

Panellist details to follow



INTERACTIVE LIVE POLLING

- Want to get a handle on where the O&M market is at?
- Who is the new customer is?
- What role the ISPs play going forwards?
- How OEMs will change their model to stay in business?
- How owners are interpreting data?

Join us for the real time data polling session and get answers to the most pressing questions!



THE INAUGURAL WEU O&M EXCELLENCE AWARDS AND GALA DINNER!



Nominations for the 2015 WEU O&M Excellence Awards are now open to any company in the onshore wind O&M industry **CLICK HERE** to check out the categories. The awards are designed to highlight emerging talent and established players in the O&M space.

sponsored by:



Danish Wind Power Academy Americas



Key Dates:

Deadline for nominations:
Friday 6th March

Finalists announced:
Wednesday 18th March

Awards Ceremony:
Wind O&M Excellence Awards, Westin Galleria,
Dallas, TX on 14th April at 7pm

KEY AWARD BENEFITS - WHY TAKE PART?

- ▶ Performance Enhancement: Increase reliability and reduce downtime to get more power out of the asset for higher return
- ▶ Reward your team for hard work
- ▶ Meet world leaders in the wind O&M market
- ▶ Hear what it takes to win and learn from winners
- ▶ Celebrate successes and on-going development in the industry

**Don't miss your chance!
Nominate your company now**

THE 2015 WIND O&M EXCELLENCE AWARD CATEGORIES

- Best Technological Innovation
- Best Example of O&M Excellence
- Operator of the Year
- Wind Turbine Manufacturer of the Year
- Wind Service Provider of the Year
- Best Industry Newcomer

Opportunities to grow your business in the North American O&M market start here!

O&M Dallas provides you with the ideal platform to showcase your expertise and solutions to your target market.

Does your target audience know what you can achieve?

We can help, with our bespoke packages that include:

- **Ideal Placement** - showcase your latest products and demonstrate your technical expertise
- **Thought leadership** - take the stage and show what your company is doing to drive the industry forward
- **Brand Awareness** - make sure you are recognised and show what sets you apart from the competition
- **Exclusive Networking** - host interactive sessions with core clients and prospects and much more...

Over 25 booths



15 hours networking



3 workshops



2 tracks



Numerous debates



Awards ceremony



BRING YOUR TEAM TO MAXIMIZE THE BENEFITS:

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Find out how much you can save with a group booking discount.

Contact us on register@windenergyupdate.com

"As an Independent Service Provider (ISP) we have seen a benefit in not only attending but exhibiting at the Wind O&M Summit over the past 5 years. The show focuses on all aspects of O&M and we get to meet with a lot of our current customers as well as other potential customers to discuss opportunities in providing wind services"

- VP of Business Development, Run Energy

TAILOR YOUR OWN SPONSORSHIP IN 3 SIMPLE STEPS!



THINK ABOUT YOUR DESIRED GOALS:

- Engage with Owner / Operators, Investors, OEMs, Suppliers and Service Providers
- Stay ahead of your competition
- Speak to your target audience
- Launch a product
- Demonstrate your capabilities
- Meet new clients and build relations
- Brand visibility / recognition
- Private meetings with clients
- Market research



WORK OUT YOUR BUDGET:

- Speak with your marketing team and decide on a suitable level of investment - make sure you assign the right budget to the right show!
- No matter what your budget, we will work with you to build a package that achieves your aims and exceeds expectation

Floorplan

85% SOLD!

Get in touch now to secure one the final remaining exhibition spots!



CALL TO DISCUSS YOUR IDEA

Spaces are very limited and are already selling out fast so make sure to call today to secure your spot before you miss the chance.



ÉRICA BAÊTA, Business Development

erica@windenergyupdate.com

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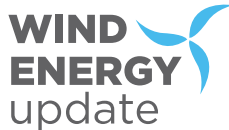
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"This conference provides a clear view of the trends, challenges, and opportunities of the O&M spectrum"
- Operations Manager, Siemens Energy

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7th Annual

Wind Energy Operations & Maintenance Summit, USA

14-15 April, 2015, Westin Galleria, Dallas, TX

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1. Select Your Registration Package

Pass Features	PREMIUM PASS	STANDARD PASS	BASIC PASS
▶ Full access to 2 day summit, networking events and workshops	✓	✓	✓
▶ Post event access to presentations slides and audio webcast package	✓	✓	
▶ 6 week access to online messaging and meeting planner system (pre and post event)	✓	✓	
▶ Official event briefing with summary of key themes and trends, plus poll results	✓	✓	
▶ NEW - Access to awards ceremony and dinner	✓	✓	
▶ Access to the Onshore O&M Strategies Report 2015 worth \$3,360	✓		
Super Early Bird - Expires January 23rd	\$3490	\$1695	\$1495
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Purchase a Diamond Pass to get exclusive insight from industry leaders

O&M strategies analyzed: find out how predictive, preventative and reactive strategies compare in terms of costs and impact on reliability

In-house O&M vs. OEMs vs. Independent service companies: understand the pros and cons of each so you can choose the best option for your wind energy assets

Exclusive data on failure rates: get access to statistical analysis on failure rates based on 18 years of data collected from more than 12GW of wind turbines

Benchmark against other wind energy operators: find out how operators across the globe are approaching O&M and compare your operations to theirs

2. Enter Attendee details

Mr/Mrs/Ms/Dr:	First name:	Last name:	DISCOUNT CODE: ONLINEBRO use this discount to get an extra \$50 off the registration price
Company:		Position/Title:	
Telephone:	Fax:	Email:	
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