



Wind Operator Congress Europe

27th -28th October 2014, The Waldorf Hilton, London

Minimise downtime, increase reliability and boost efficiency

A strategically focused gathering of Europe's foremost wind power O&M professionals, confirmed speakers including:

- José Carlos Araujo Martin, Asset Performance Analysis and Commercial Operations Tools, Iberdrola Renovables, Spain
- Rudolf Zauner, Head of Wind Operations, Verbund Hydro Power, Austria
- Massimo Derchi, Managing Director, Erg Renew, Italy
- Agustin Fernandez Espinosa, Wind O&M Manager, Cobra Energia, Spain
- Tiago Silva, Head of Operations Management Division, Iberwind, Portugal
- Jean Lemaire, Director Asset Management, Akuo Energy, France
- Kristof Verlinden, O&M Asset and Production Manager, Parkwind, Belgium
- David Farrell, Manager Renewables O&M, ESB, Ireland
- Pedro Alves, Head of Transversal Operations Department, EDP Renewables, Portugal
- Torben Mikkelsen, Professor of Remote Sensing, DTU Wind Energy, Denmark
- Ricardo Janeiro Silva, Transversal Operations Department, EDP Renewables, Portugal
- Akrik Schiede, Head of Service Engineering, Juwi, Germany
- Jan Sisson, Managing Director, Juwi, U.K.

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- Chris Holden, Offshore Operations Manager, RES Offshore, UK
- Bart Goddyn, Operations Manager, Aspiravi, Belgium
- Raquel Salavessa, Project Manager, EnergieKontor, Portugal
- Monika Weis, Health and Safety Manager, EDP Renewables, Poland
- Andy Lewin, Senior Project Manager, Offshore Renewable Energy Catapult, UK
- Mark-Jan Harte, Consultant Data Analyst, Vattenfall, and Partner, Algoritmica, Netherlands
- Stefan Faulstich, Scientist, Reliability & Maintenance Strategies, Programme Area: Energy, Economy & Grid Operations, Fraunhofer IWES, Germany
- Ervin Semsedin, Managing Director, Monsson Operation, Romania
- John Medley, Data Analyst, ZephIR Lidar, UK
- Jordi Torres, Director of O&M, EDF Energy Renewables, UK
- Richard Smith, Principal Engineer, Fleet Maintenance, Romax Technology, UK
- Michael Harris, Chief Scientist, ZephIR Lidar, UK
- Nicholas Carlin, Senior Associate, Pinsent Masons, UK
- Victor Hernandez, Europe Wind Services Sales Leader, GE Wind Energy, Spain
- Eugenio Yegro, Transactional Sales Leader EMEA, GE Wind Energy, Spain
- Sebastiano Maurizio Suraci, Operations and Maintenance Manager, Erg Renew, Italy
- Ville Karkkolainen, Managing Director, Bladefence, Finland
- Dr Mayorkinos Papaelias, Senior Lecturer, School of Metallurgy and Materials, University of Birmingham, UK
- Dan Klitgaard, Operations Engineer, European Wind Investment A/S, Denmark
- Guido Hueni, Head of Asset Management Wind Farms, Axpo Power, Switzerland
- Dr Alexander Karyotakis, Offshore Wind and R&D Programme Director, TERNA ENERGY, Greece
- Rudolf Neuwirth, Head of Operations Offshore, E.ON Climate and Renewables, Germany
- Santiago Dominguez Rubira, Head of O&M Europe, Enel Green

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Day One, Monday 27th October

8.00	Registration
9.00	Opening remarks from the chair: Massimo Derchi, Managing Director, Erg Renew, Italy
9.10	<p><u>Congress opening keynote</u></p> <p>Assessing the strategic O&M considerations of Europe’s leading owner/operators in a maturing wind power market</p> <ul style="list-style-type: none"> • Highlighting how owner/operators are successfully responding to the increased need to focus on O&M as the market matures • Examining the role O&M now takes in an overall corporate strategy • Analysing how the industry is learning from its past and utilising historical data and experience to develop current O&M strategies • How could new technologies, practices and stakeholders shape O&M in the near future?
9.40	<p>Turbine life: Developing effective strategies to increase the lifespan of productive wind turbines</p> <ul style="list-style-type: none"> • Assessing how maintenance, monitoring, software and adaption can increase the life of a turbine • Identifying and planning for the costs you will incur deep into a turbine’s lifespan • Balancing cost against production gains for economically viable extension • How could new turbine technologies be expected to accelerate the development of increased lifespan for wind turbines?
10.10	<p>Understanding turbine performance: What should you expect from your turbines and what will this mean for productivity?</p> <ul style="list-style-type: none"> • Assessing how OEM performance and availability guarantees correspond with reality • Understanding variance in turbine performance and what this will mean for your production • Accurately measure your turbines’ performance on the power curve • Using your measurements of turbine performance to question an OEM’s claims and successfully renegotiate contractual terms <p>José Carlos Araujo Martin, Asset Performance Analysis and Commercial Operations Tools, Iberdrola Renovables, Spain</p>
10.40	<p>Performance monitoring with turbine-mounted lidar</p> <ul style="list-style-type: none"> • Mounting options on nacelle, spinner and blades • Rotor-equivalent power curve measurement with lidar • Routes to lidar compliance with IEC standards • Methodologies for complex terrain: relative power curve at close range • Case studies showing potential to achieve improved performance <p>Michael Harris, Chief Scientist, ZephIR Lidar, UK</p>
11.00	Networking coffee break
11.30	<p>Controlling costs and increasing productivity through tailored turbine warranties</p> <ul style="list-style-type: none"> • Understanding the importance of knowing what you want from your warranty and quantifying how length and specificity will bring operational advantages • Negotiating your turbine warranties: Assessing best practice in ensuring the OEM provides a warranty that suits your needs • How do OEMs increasingly tailor warranty agreements and provide premium contracts? • Working closely and cooperatively with an OEM to ensure they fulfil their contractual obligations <p>David Farrell, Manager Renewables O&M, ESB, Ireland</p>
12.00	OEM- Owner/operator panel debate

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	<p>Building cooperative, mutually beneficial relationships between owner/operators and OEMs</p> <ul style="list-style-type: none"> Assessing how trust, transparency and dialogue between owner/operators and OEMs reduces downtime and boosts wind farm productivity Sharing data and knowledge with owner/operators to increase production and reliability and maintain security of intellectual property Streamlining negotiations to ensure OEMs uphold their contractual obligations to owner/operators Exploring the scope for collaboration amongst owner/operators to ensure OEMs meet their needs and the relationships needed to optimise operations are developed <p>Tiago Silva, Head of Operations Management Division, Iberwind, Portugal Agustin Fernandez Espinosa, Wind O&M Manager, Cobra Energia, Spain Pedro Alves, Head of Transversal Operations Department, EDP Renewables, Portugal Dan Klitgaard, Operations Engineer, European Wind Investment A/S, Denmark</p>
12.50	Networking lunch
14.00	<p>Post-warranty O&M: OEM, ISP or in-house, how can you quantify the costs and benefits of each approach and make the best decision for your operations?</p> <p><i>Hear 15 minute snapshot presentations highlighting the different approaches before an interactive panel discussion</i></p>
14.00	<p>Placing the manufacturer’s detailed, specific expertise in the context of your O&M strategy: To what extent should you draw upon it?</p> <ul style="list-style-type: none"> Quantifying the benefits that an OEM’s technical knowhow, specific understanding of the turbine and access to historical data will bring to a wind farm’s O&M Assessing how using an OEM will lead to reduced downtime and enhanced reliability that justifies the cost of OEM service contracts Judging the impact using an OEM will have on a project’s appeal to financiers and insurers <p>Bart Goddyn, Operations Manager, Aspiravi, Belgium</p>
14.15	<p>What does reduced cost mean for capability? Analysing the pros and cons of using ISPs for post-warranty O&M</p> <ul style="list-style-type: none"> Weighing up reduced cost against the risk of less specific turbine expertise: Will the sizeable savings still deliver the O&M you need? How have ISPs been able to overcome their lack of access to data and turbine history in comparison to OEMs when providing O&M service? One or many? Addressing the implications for using multiple ISPs, could this provide optimum O&M service? <p>Ervin Semsedin, Managing Director, Monsson Operation, Romania</p>
14.30	<p>The do’s, don’ts, challenges and advantages of an in house O&M team</p> <ul style="list-style-type: none"> Assessing the requirements needed to bring O&M in-house: Do you have the capacity and knowledge to effectively do so? How much could you expect to save through bringing O&M in-house and what will determine these savings? Acknowledging how and when you will still need to work with the OEM after bringing O&M in-house: Guaranteeing the transition away from them is smooth and the relationship remains positive Expertise in M&A and takeovers: Highlighting how building in-house O&M capacity will bring additional benefits to your company’s wider strategy <p>Sebastiano Maurizio Suraci, Operations and Maintenance Manager, Erg Renew, Italy</p>
14.45	<p>Panel Discussion</p> <p>Making the choice: Examining how owner/operators can select the optimum O&M strategy for their wind farms</p>

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	<ul style="list-style-type: none"> • Outlining the key variables that should inform an owner/operators O&M choice • Qualifying the risks inherent in different O&M service options and how large an appetite to risk operators should have • Building a bespoke package: How can differing options be implemented in tandem to provide optimally tailored O&M strategies? • Understanding the fundamental impact on downtime <p>Sebastiano Maurizio Suraci, Operations and Maintenance Manager, Erg Renew, Italy Bart Goddyn, Operations Manager, Aspiravi, Belgium Ervin Semsedin, Managing Director, Monsson Operation, Romania</p>
15.15	<p>Case study: Verbund Hydro Power The narrow road to servicing your own turbines (or with a little help): Highlighting Verbund Hydro Power's step by step approach to servicing their own turbines</p> <ul style="list-style-type: none"> • Responding to a need to cut costs after the end of the feed-in tariff • Quantifying the gains from in-house servicing and acknowledging the risks • Developing an effective monitoring and intervention framework • Ensuring the work force develops the capacity and knowhow to successfully bring O&M in-house <p>Rudolf Zauner, Head of Wind Operations, Verbund Hydro Power, Austria</p>
15.40	Networking afternoon tea
16.10	<p><u>Operator maintenance panel</u> Optimising reactive maintenance capacities and boosting reliability with a coherent preventative maintenance strategy</p> <ul style="list-style-type: none"> • Understanding the full cost implications of unscheduled maintenance on wind turbines and the extent to which these can be controlled • Ensuring a response is timely through effective communication, physical capability and a workforce suitably skilled to address the issue • Developing a preventative maintenance strategy: Examining the different options for monitoring turbines and how these guide your preventative maintenance plan • How should you balance the use of different monitoring systems and inspection regimes? • Quantifying the potential cost savings that can be made through an optimally implemented preventative maintenance strategy <p>Ricardo Janeiro Silva, Transversal Operations Department, EDP Renewables, Portugal Santiago Dominguez Rubira, Head of O&M Europe, Enel Green Power, Spain Jordi Torres, Director of O&M, EDF Energy Renewables, UK</p>
17.00	<p>Discussion Analysing the increasing role and use of condition monitoring systems for O&M</p> <ul style="list-style-type: none"> • Effectively monitoring pressure, vibrations and temperature to assist in the reduction of downtime and increase of productivity • Age of turbine and power output: Understanding when the implementation of a condition monitoring system will lead to productivity increases that justify its CAPEX • Assessing the pros, cons and ROI of permanent against temporary condition monitoring systems for turbines • Examining the differing value to an O&M strategy of implementing condition monitoring systems offshore and onshore respectively <p>Dr Mayorkinos Papaelias, Senior Lecturer, School of Metallurgy and Materials, University of Birmingham, UK Dr Alexander Karyotakis, Offshore Wind and R&D Programme Director, TERNA ENERGY, Greece</p>
17.40	Offshore maintenance hot-seat

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With Europe's offshore industry ever growing we hear from two experienced offshore professionals for 15 minutes each before quizzing them on how they have succeeded in implementing effective maintenance strategies in challenging conditions

Highlighting and addressing the specific challenges posed by access and conditions to developing an offshore maintenance strategy

- What are the key specific demands that offshore conditions and climate place upon turbines and what do they mean for failure rates and performance?
- Building the extended downtime for minor and major failures offshore into your cost model and maintenance planning: How can access be optimised?
- To what extent does a less mature offshore wind industry mean reduced expertise in maintenance planning? How could we expect offshore maintenance practices to evolve and what could they mean for offshore reliability and performance?

Rudolf Neuwirth, Head of Operations Offshore, E.ON Climate and Renewables, Germany

Kristof Verlinden, O&M Asset and Production Manager, Parkwind, Belgium

18.30 Networking drinks reception

Day Two, Tuesday 28th October

8.30 Registration opens

9.10 Opening remarks from the chair

9.20 Collaborating and Innovating: Working together to improve operational performance and resolve common problems across the UK Offshore wind fleet

- The ORE Catapult O&M Forum has been established to facilitate greater collaboration between UK owner operators and to accelerate performance improvement and address common industry problems
- How does collaboration help to solve problems?
- Can performance be improved with innovative solutions?
- How can we use the supply chain to develop innovative solutions?
- What is the role of data in understanding operational performance and identifying areas for improvement, collaboration and innovation?

Andy Lewin, Senior Project Manager, Offshore Renewable Energy Catapult, UK

9.50 Analysing how increased data availability from existing assets can be utilised in key decision making for asset management

- The thinking of a (non)typical utility
- The road to improved asset performance through operational data
- Quantifying performance increases and downtime reductions: Where can most value be gained from an ever increasing availability and understanding of data?
- Improving technical asset management by using data for effective performance modelling and prognostic analysis
- Using the same approach for all stakeholders to optimise the assets

Guido Hueni, Head of Asset Management Wind Farms, Axpo Power, Switzerland

10.20 Networking coffee break

11.00 **Data ownership: Developing cooperative relationships between industry stakeholders for the sharing of operational data to advance efficiency**

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	<ul style="list-style-type: none"> Examining the different data OEMs and owner/operators have historically had access to To what extent have barriers to sharing this compromised development in operational efficiency? Analysing how different stakeholders can be incentivised to be more transparent and share data, highlighting the benefits brought from doing so Understanding the benefits of industry wide data pooling and standardization to benefit stakeholders across the O&M value chain <p>Stefan Faulstich, Scientist, Reliability & Maintenance Strategies, Programme Area: Energy, Economy & Grid Operatopms, Fraunhofer IWES, Germany</p>
11.30	<p>Gathering and interpreting operational data: What can lidar offer to optimise asset management?</p> <ul style="list-style-type: none"> Ground-based lidar wind profiler as a moveable mast replacement Performance investigation with turbine-mounted lidar Understanding and quantifying the effect of wakes Dealing with the effects of forestry and complex terrain <p>John Medley, Data Analyst, ZepHIR Lidar, UK</p>
11.50	<p>Securing the greatest benefit to O&M through effective Supervisory Control and Data Acquisition (SCADA)</p> <ul style="list-style-type: none"> Accurate understanding of turbine failure and development of maintenance strategies through optimal SCADA use Analysing turbine performance and predicting power generation shortfalls through SCADA usage Understanding the role of SCADA data in successful negotiations between owner/operators and OEMs <p>Alrik Schiede, Head of Service Engineering, Juwi, Germany and Jan Sisson, Managing Director, Juwi, U.K.</p>
12.20	Networking lunch break
13.20	<p>A step closer to predictive maintenance: Examining the potential for predictive maintenance to revolutionise O&M</p> <ul style="list-style-type: none"> Examining how new prognostic technologies and practices are enabling the development and implementation of predictive maintenance Analysing current predictive maintenance capacities and the amount of an overall maintenance strategy it could account for Understanding the cost implications of predictive maintenance and when it will yield a ROI Assessing proven and expected reductions in downtime from predictive maintenance <p>Mark-Jan Harte, Consultant Data Analyst, Vattenfall, and Partner, Algoritmica, Netherlands</p>
13.50	<p>Panel Discussion</p> <p>Formulating an effective supply chain management strategy to optimise availability of the right parts at the right time</p> <ul style="list-style-type: none"> Assessing the growing importance of supply chain management in a maturing wind power market: Understanding the impact of an intelligent supply chain strategy on downtime Developing a timely and cost effective sourcing strategy: Who and where from will provide the best access to the parts needed for your wind turbines How effective will your O&M contractors be in sourcing and what could this mean for their ability to optimally service your turbines Back up parts: Analysing how to decide what parts and in what quantity should be kept in stock for cost efficiency <p>Jean Lemaire, Director Asset Management, Akvo Energy, France Chris Holden, Offshore Operations Manager, RES Offshore, UK Sebastiano Maurizio Suraci, Operations and Maintenance Manager, Erg Renew, Italy</p>
14.40	10:10:10 TECH SPOTLIGHT

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	<p>10 slides, 10 minutes presentation, 10 minutes Q&A</p> <p>Wind turbine main bearing best practice: Overcoming challenges in O&M and improving reliability</p> <ul style="list-style-type: none"> • Assessing best practice in main bearing failure investigations • Effectively reducing main bearing risk at the end of warranty • Analysing ongoing health monitoring and overcoming problems to extend bearing life • Developing main bearing predictive maintenance strategies and accurately forecasting remaining useful life <p>Richard Smith, Principal Engineer, Fleet Maintenance, Romax Technology, UK</p>
15.00	Networking afternoon tea
15.30	<p>Panel Discussion</p> <p>Overview of the latest developments in lidar technology and their implications for O&M</p> <ul style="list-style-type: none"> • Accurately reading wind conditions further in advance of a turbine with innovative lidar technology • Examining the role of on nacelle lidar in monitoring and improving the performance of the nacelle instruments, maximising productivity whilst reducing load and fatigue • To what extent could on nacelle lidars to become an integral part of a wind turbine and how can their economic viability be accurately understood? <p>David Farrell, Manager Renewables O&M, ESB, Ireland Michael Harris, Chief Scientist, ZephIR Lidar, UK Torben Mikkelsen, Professor of Remote Sensing, DTU Wind Energy, Denmark</p>
16.10	<p>Case study: EnergieKontor</p> <p>Rotor Blade Extension (RBE): Improving instead of repowering</p> <ul style="list-style-type: none"> • Identifying and responding to unexpectedly low production through effective blade extension • RBE concept and methodology: How and what should you do when applying extension and how should you mitigate risks • The results: Quantifying expected and proven production gains from RBE • Assessing the costs and time frames involved in RBE <p>Raquel Salavessa, Project Manager, EnergieKontor, Portugal</p>
16.40	<p>Rotor blade repairs using advanced UV curing resin system- case study</p> <ul style="list-style-type: none"> • Assessing the use of an advanced UV curing composite repairs system to enable pre-emptive blade maintenance • Understanding the minimization of downtime through using UV curing systems • Examining overall expected production increases through using UV curing systems for rotor blade repair <p>Ville Karkkolainen, Managing Director, Bladefence, Finland</p>
16.55	<p>Understanding the business case for, and developing a practical safety strategy for onshore wind farm operations</p> <ul style="list-style-type: none"> • Understanding the benefits of viewing safety as an opportunity not a cost: Measuring the commercial benefit of an integrated safety procedure • People first: Assessing best practice in deploying the right people at the right time in the right way for excellence in safety at onshore operations • Working in conjunction with OEMs to enhance and develop a readily implementable safety procedure and training strategy <p>Monika Weis, Health and Safety Manager, EDP Renewables, Poland</p>
17.25	Closing remarks and end of congress

Post-conference workshop Wednesday 29th October

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9.00	Registration opens
9.30	<p>Formulating and negotiating <i>warranty agreements and service contracts</i> that meet your specific O&M needs</p> <ul style="list-style-type: none"> • Assessing the implications of warranty length on your operations and overall O&M service strategy • Understanding and guaranteeing warranty scope: Ensuring your turbine warranty coverage is sufficient and the OEM upholds their obligations to you in full • Developing valid and successful end of warranty claims and identifying common areas of dispute • Guaranteeing the OEM provides reports, data and records to the maximum extent, leaving you best placed to enter the post-warranty phase • Establishing a clear understanding of O&M contract type and terms that suit your assets based on experience, size of projects and geography • Discussing advantages and disadvantages of different contract types and the implications of multiple service agreements • Ensuring your contracts deliver what you want them to: Developing clear and unambiguous terms to enhance your ability to ensure they are delivered • Using data and evidence to renegotiate contracts ensuring more favourable terms and optimised delivery of O&M needs • Understanding how financiers and insurers view different service contracts and the implications for your assets <p>Leader: Nicholas Carlin, Senior Associate, Pinsent Masons, UK</p>
12.30	Networking lunch
13.30	<p>Understanding how <i>predictive maintenance</i> could optimise your O&M and effective strategies for its implementation</p> <ul style="list-style-type: none"> • Analysing the shift from reactive, to preventative to predictive maintenance and the extent to which predictive maintenance could be used in the near future • How has predictive maintenance enabled leading operators to reduce downtime and boost turbine performance and what could this mean for your operations? • Balancing your capacity and turbines against the cost of predictive maintenance: To what degree will predictive maintenance technology prove an economically sound investment • Assessing how predictive maintenance will enable you to streamline your supply chain management, guaranteeing availability of the right parts at the right time and helping control costs • Understanding how maintenance personnel will benefit from working with predictive maintenance, enabling greater productivity and enhanced safety • What parts of a turbine and common failures will benefit most from predictive maintenance: Understanding the potential cost savings achievable from mitigating against major component failure • Assessing the different implications of predictive maintenance for onshore and offshore operations respectively: How will cost, ROI and downtime vary and what are some of the key specific advantages? <p>Leaders: Victor Hernandez, Europe Wind Services Sales Leader, GE Wind Energy, Spain Eugenio Yegro, Transactional Sales Leader EMEA, GE Wind Energy, Spain</p>
16.30	End of workshop

The Wind Operator Congress Europe brings together leading owner-operators, cutting-edge technology providers and the sector's foremost service companies. Together they will share the

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leading strategies and most advanced technologies driving Europe's wind power O&M industry.

Excellence in O&M is essential for any wind farm operator striving to maximise reliability, slash downtime and minimise cost. As Europe's wind power industry matures, the focus on optimising O&M, and benefits of doing so, have never been greater.

From predictive maintenance to data management; post-warranty service contracts to component supply; communications systems to extending turbine life; the Wind Operator Congress Europe guarantees you keep abreast of this rapidly advancing sector and are equipped with the knowhow to optimize O&M.

Wind Operator Congress Europe Advisory Board

- Kristof Verlinden, O&M Asset and Production Manager, Parkwind, Belgium
- David Farrell, Manager Renewables O&M, ESB, Ireland
- Massimo Derchi, Managing Director, Erg Renew, Italy
- Jean Lemaire, Director Asset Management, Akuo Energy, France
- Rudolf Zauner, Head of Wind Operations, Verbund Hydro Power, Austria
- Guido Hueni, Head of Asset Management Wind Farms, Axpo Power, Switzerland

Congress Webinar Series (Free to attend)

Tuesday 2nd September, 2pm BST (3pm CET)

Presenter: Jean Lemaire, Director Asset Management, Akuo Energy, France

Using advanced computer models to optimize O&M strategies and decision making

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

Drivetrain Maintenance

Romax Technology's engineers spend a huge amount of time in the field, identifying and solving drivetrain problems. These range from a wide variety of bearing failure modes affecting the gearbox, generator and main bearings, through to planetary gear faults and consequential damage caused by debris in the gearbox oil. This presentation looks at the "top 5" problems that we see regularly in the field and what the owner or operator can do to solve or manage these issues. We also look at what the operator can do to understand the condition of their drivetrains if they have no CMS installed, utilising low cost portable measurement equipment to reveal highly valuable information about the condition of the machine.

Thursday 2nd October, 2pm BST (3pm CET)

Presenter: Massimo Derchi, Managing Director, Erg Renew, Italy

Challenges, options and opportunities for Europe's mid-sized wind power producers:

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What does the current market mean for them and how are they striving to get the most from it?

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