

DON'T MISS OUT!

AEE

05TH/06TH/07TH

APRIL

ACTIVITIES AGENDA
 **STAND AEE**

HALL 1, STAND E-20

www.aeeolica.org

ACTIVITIES AGENDA

STAY UPDATED
ACTIVITIES DESCRIPTION



5th

16h00-16h30

FULL AUTONOMOUS INSPECTIONS IS COMING

Presentation Innovation, ARBOREA INTELLBIRD

16h30-17h00

LEVERAGING OPERATIONAL DATA TO UNDERSTAND RISK

Presentation, CLIR RENEWABLES

17h00-18h00

SIMULATION WINDEXT

Presentation and Simulator, WINDEXT (WExSiM) & Simulwind

6th

11h00-11h30

CENTRALISING DATA STREAMS FOR BETTER O&M DECISIONS AND SCALABLE FLEET MANAGEMENT

ONYX Insight

11h30-12h00

TEST AND OPERATION SECOND-LIFE BATTERIES TO COMPARE THE SERVICES WITH A FIRST LIFE LITHIUM BATTERIES

Presentation Innovation, ACCIONA

12h00-12h30

SUSTAINABILITY IN EVERYTHING WE DO

Presentation, VESTAS

12h30-13h00

CYBERSECURITY AS ENABLER TO MITIGATE THE RISKS OF DIGITALISING WIND ENERGY

Presentation, FORTINET

13h00-13h30

TOP 5 REASONS WHY RPA IS THE MOST EFFECTIVE WAY TO INCREASE PERFORMANCE

Presentation, GREEN AGLE SOLUTIONS

15h30-16h00

TRAZA+, THE SOLUTION FOR RENEWABLE ENERGY ASSET MANAGEMENT

Demo, Applus+

16h00-16h30

ADVANCED WIND SOFTWARE, PREDICTIVE HYBRID MODELS AND VIRTUAL REALITY APPLICATIONS

Presentation and Simulator, SOLUTE

16h30-18h00

SIMULATION WINDEXT

Presentation and Simulator, WINDEXT (WExSiM) & Simulwind

7th

09h00-11h00

SIMULATION WINDEXT

Presentation and Simulator, WINDEXT (WExSiM) & Simulwind

11h30-12h00

ENVIRONMENTAL IMPACT OF MARINE RENEWABLE ENERGIES: AMBEMAR-DSS

Demo, Instituto de Hidráulica Ambiental de la Universidad de Cantabria

13h00-13h30

CANARRAY I, THE FIRST TWIN TURBINE WIND FARM WORLDWIDE

Presentation & Typical Canarian Snacks, ENEROCEAN



ACTIVITIES AGENDA

5th

16h00-16h30

FULL AUTONOMOUS INSPECTIONS IS COMING

Presentation Innovation, ARBOREA INTELLBIRD



One of the biggest challenges for the extension of the new offshore wind farms is the cost reduction of O&M processes. The favorable evolution of the UAS regulatory framework in Europe, enable the safe flight of drones in shared airspace, imminently open the way to the use of autonomous solutions.

Over the last ten years, Arborea has generated, a disruptive procedure for deferred digital inspection of wind turbine blades over digital twins created from data obtained with UAS, and other tools for the management of UAS in airspace allow predictive maintenance and a ranking of risk of assets. All these tools have contributed to O&M cost reduction and open the door to a new full autonomous inspection concept.

16h30-17h00

LEVERAGING OPERATIONAL DATA TO UNDERSTAND RISK

Presentation, CLIR RENEWABLES



Learn how analyzing turbine reliability and longevity, operational practices, and contractual liability allows operations teams to understand areas of risk and potential improvements. Clir empowers owners to maximize financial returns by combining the industry's largest contextual operational dataset (200GW) with powerful AI designed and supported by decades of renewables expertise

17h00-18h00

SIMULATION WINDEXT

Presentation and Simulator, WINDEXT (WExSiM) & Simulwind



Launched in January 2020, WindEXT is an ambitious European funded project. The goal of the project is to develop and standardize specialized training on maintenance wind farms, integrating digital tools like Virtual Reality or 360° video tours to complete the classical theoretical methods. Within the digital tools, WindEXT presents: WExSiM, WExLaB, WExViR and the 'Failure Tree' software. All the content of WindEXT project will be in a MOODLE platform, from the theoretical content to the digital tools, with the exception of WExSiM, which will be accessed externally.



HALL 1, STAND E-20

ACTIVITIES AGENDA

6th

11h00-11h30

CENTRALISING DATA STREAMS FOR BETTER O&M DECISIONS AND SCALABLE FLEET MANAGEMENT

Presentation, ONYX Insight



ONYX Insight presents case studies that highlight how data centralization improves O&M predictive maintenance strategies, bringing about significant cost savings and increasing the ability for windfarm owners and operators to scale.

Enabling a full turbine predictive maintenance approach gives owners and operators a holistic picture of the component health across their entire fleet by combining vibration and SCADA data as well as oil, blade, turbine, and drivetrain data.

11h30-12h00

TEST AND OPERATION SECOND-LIFE BATTERIES TO COMPARE THE SERVICES WITH A FIRST LIFE LITHIUM BATTERIES

Presentation Innovation, ACCIONA



Acciona has connected Spain's first renewable storage plant using reused batteries to the grid, at the company's experimental photovoltaic park in Tudela (Navarre). The set of four second-life batteries, with a combined capacity of 130 kWh, will store the energy obtained from the 1.2 MWp plant.

The innovation project concludes with an analysis of the battery performance and behavior and a comparative analysis to verify the equal performance of reused batteries as first life batteries.

The project allows a real test of the capacity of the batteries, second and first life, hybridized with a renewable source to provide complementary services to the grid.

12h00-12h30

SUSTAINABILITY IN EVERYTHING WE DO

Presentation, VESTAS



Vestas has been recognized as the most sustainable company in the world thanks to its holistic approach to Sustainability. We could briefly explain this progress and look for potential partnerships.

12h30-13h00

CYBERSECURITY AS ENABLER TO MITIGATE THE RISKS OF DIGITALISING WIND ENERGY

Presentation, FORTINET



Insightful presentation to leverage Cybersecurity as an enabler for problems that new plants and digitalisation projects have to face. We will speak of concrete problems that remote Operation & Maintenance usually face to secure industrial communications, access to SCADA or engineering stations, either by own personnel or 3rd party companies. Secure connection to cloud environments and the proper and secure handling of field & cloud interface and the proper understanding of Industrial and Secure Use of Cloud. As well, we will speak about how to face the challenge of industrial obsolescence and how technology can help through the concept of virtual patching.

13h00-13h30

TOP 5 REASONS WHY RPA IS THE MOST EFFECTIVE WAY TO INCREASE PERFORMANCE

Presentation & Demo, GREEN AGLE SOLUTIONS



Green Eagle Solutions is the first company worldwide to use Robotic Process Automation (RPA) to operate wind farms. In this presentation, we will share relevant results and uncover the potential of RPA to take our industry to the next level.

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ACTIVITIES AGENDA

6th

15h30-16h00

TRAZA+, THE SOLUTION FOR RENEWABLE ENERGY ASSET MANAGEMENT Demo, Applus+



Throughout the various stages of a project, a large quantity of information and documentation is generated which, up until now, has been stored on databases and in archives, making it difficult to consult further down the line. Traza+ is a functional tool which can be applied in different sectors, which enables the management of assets relating to wind farms, the creation and execution of their corresponding maintenance plans and the organisation of the documentation generated throughout the life cycle of a project, ensuring mobility and allowing the information to be accessed and worked on in places with no network coverage or a weak signal.

16h00-16h30

ADVANCED WIND SOFTWARE, PREDICTIVE HYBRID MODELS AND VIRTUAL REALITY APPLICATIONS Presentation and Simulator, SOLUTE

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Advanced wind software, predictive hybrid models and virtual reality applications for the promotion, operation and maintenance optimization of onshore and offshore wind farms.

16h30-18h00

SIMULATION WINDEXT Presentation and Simulator, WINDEXT (WExSiM) & Simulwind



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ACTIVITIES AGENDA

7th

09h00-11h00



SIMULATION WINDEXT

Presentation and Simulator, WINDEXT (WExSiM) & Simulwind

Launched in January 2020, WindEXT is an ambitious European funded project. The goal of the project is to develop and standardize specialized training on maintenance wind farms, integrating digital tools like Virtual Reality or 360° video tours to complete the classical theoretical methods. Within the digital tools, WindEXT presents: WExSiM, WExLaB, WExViR and the 'Failure Tree' software. All the content of WindEXT project will be in a MOODLE platform, from the theoretical content to the digital tools, with the exception of WExSiM, which will be accessed externally.

11h30-12h00



ENVIRONMENTAL IMPACT OF MARINE RENEWABLE ENERGIES: AMBEMAR-DSS

Demo, Instituto de Hidráulica Ambiental de la Universidad de Cantabria

Demonstration of AMBEMAR-DSS software developed by IHCantabria, a Decision Support System for the Environmental Impact Assessment of Marine Renewable Energies.

13h00-13h30



CANARRAY I, THE FIRST TWIN TURBINE WIND FARM WORLDWIDE

Presentation & Typical Canarian Snacks, ENEROCEAN

The CanArray is a new experimental offshore wind farm with 4 floating units (8 turbines) of up to 48 MW capacity. In 2019, EnerOcean installed in the Canary Islands a prototype of its patented W2Power solution, the first floating wind platform in Spanish waters and the first multi-rotor design to complete open sea tests successfully. The event will consist of testimonies of involved companies, debating with potential suppliers and other stakeholders interested in the development, followed by a networking snack composed of Canary Islands specialties.



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