

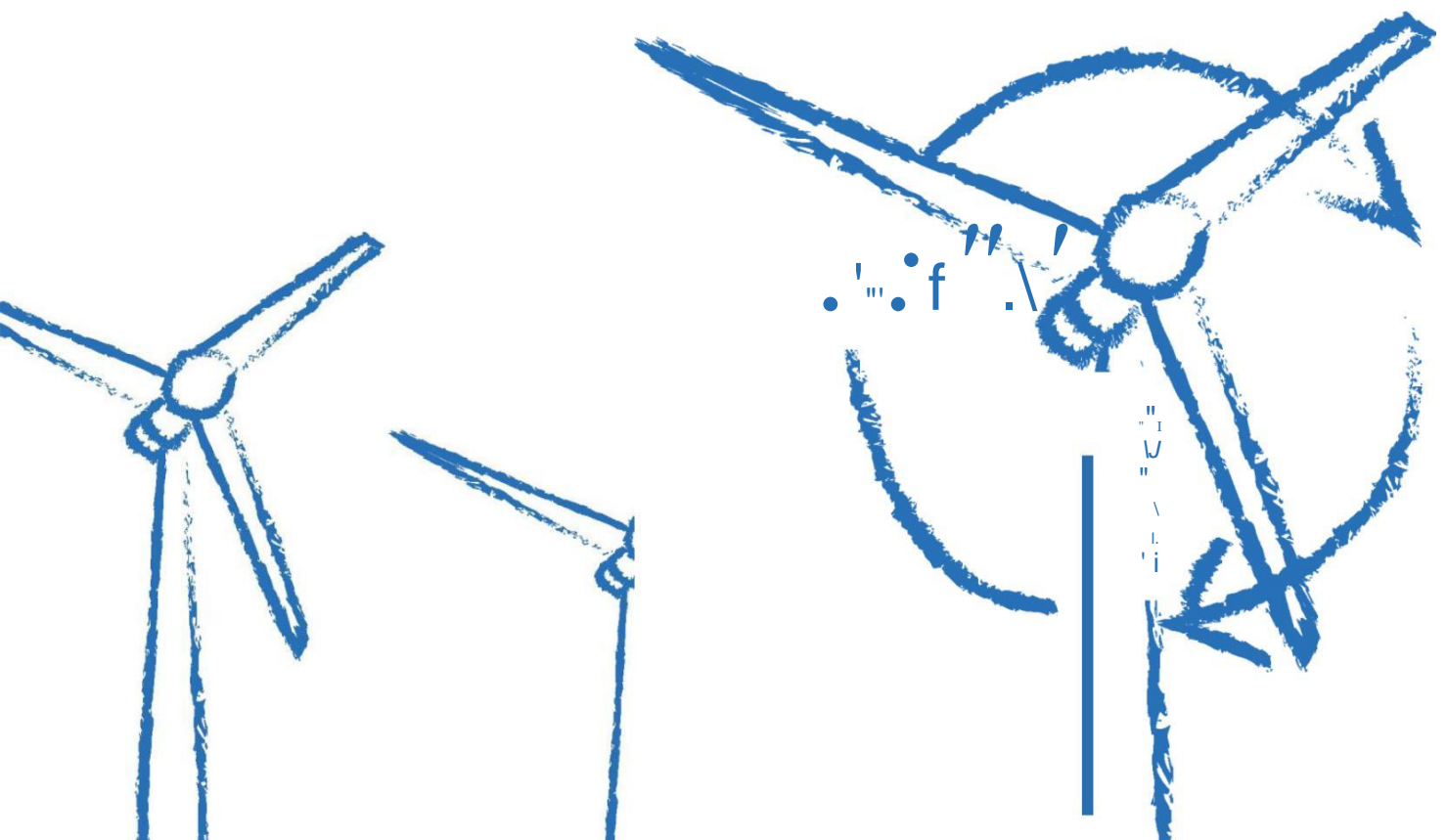


III International Day on Wind Farm Life Extension

Operational improvement, repowering and life extension

Madrid, October 9th, 2018

[Link to original](#) (Spanish)



09H00 OPENING SESSION

○ Rocío Sicre, President. **AEE**

○ Galo Gutiérrez, General Director of Industry and Small and Medium Enterprises.
Ministry of Industry, Commerce and Tourism

09H30 PRODUCTION INCREASE OF EXISTING PARKS WITH LOW COST SOLUTIONS

Key topics:

- Advanced component diagnosis
- Optimized production schedule
- Solutions to increase production without compromising the life of wind turbines

○ Moderator: Ceferino Viescas, Director of O&M. **EDP Renováveis**

• Improvement of production and operations. How the life of the machine is managed in real time. ○
Alberto Linares, Chief Engineer of Technological Development WindCom. **Siemens Gamesa**

• Aeronautical knowledge applied to the life extension of wind turbines.

○ Pedro Muñoz, Engineering Manager. **Aeroblade**

• Deep blade analysis with digital technology in Iberdrola. A tool to consider in life extension analyzes. ○
Carlos Bernabéu, Director of Arborea Intellbird. **Iberdrola**

• Improved safety and reliability of blade control.

○ Ralph Heick, Key Account Manager. **Maxwell**

10H30 THE IMPROVEMENTS OF MAINTENANCE OF WIND FARMS

Key topics:

- Experience in the maintenance of wind farms, main lessons learned
- Optimized use of SCADA data
- New developments to evaluate wind turbine failures

○ Moderator: Íñigo Vázquez. Chief Executive Officer. **Revergy**

• Predictive maintenance based on SCADA data.

○ Jonas Carné, Chief Executive Officer. **Greenbyte**

• Analysis of the current signature for diagnosis of DFIGs..

○ Estefanía Artigao. Researcher. **Universidad de Castilla-La Mancha**

• Analytical challenges with impact on the availability of large-scale wind turbines. ○
Ander Larrañaga, Energy Chief Business Development Officer. **NEM Solutions**

11H30 COFFE BREAK

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12H00 THE OPERATIONAL IMPROVEMENTS OF WIND FARMS

Key topics:

- Improved control for better orientation of wind farms
- Improvements in wind turbine orientation control
- Use of the territory and the electrical infrastructure for the realization of renewable hybrid projects

○ Moderator: Fernando de la Blanca, Director of Operations. **Ynfiniti Energy**

• Solutions to complete the traditional lack of functional and operational information of wind farms. ○ Carlos Alberó, Asset and Operations for Iberia and Latin America. **DNV-GL**

• Concrete actions to optimize the performance of wind farms.

○ Aleix Torner, Team Leader Plant Performance Europe. **Senvion**

• The improvement of control systems in the reduction of faults and the improvement of park operations. ○ Javier Gutiérrez, Operations Manager. **Isotrol**

13H15 THE OPERATION OF WIND FARMS AS A DIFFERENTIAL ELEMENT BETWEEN EXTENSION OF LIFE AND REPOTENTIATION

Key topics:

- Specific solutions for components that affect the life of machines and parks
- Regulatory aspects that affect repowering
- Business decision-making strategies

○ Moderator: Christian Jourdain. Head of Marketing for Service. **Siemens Gamesa Renewable Energy**

• The incidence of the change of pace in the durability of wind turbines. ○ Frank Svarre. Global Sales Director. **DEIF**

• The vision of manufacturers about alternatives beyond 2020.

○ José María Guillot. Service Sales Manager of Fleet Optimization. **Vestas**

• The integrated Wind Gain Hub solution for blade replacement and improved wind turbine control.

○ Rubén Ruiz de Gordejuela, MD. **Nabla Wind Power**

14H15 LUNCH BREAK

15H30 SPECIFIC SOLUTIONS FOR THE IMPROVEMENT OF THE TRANSMISSION AND STEP CONTROL SYSTEMS

Key topics:

- Advanced lubrication systems for bearings and gears
- Repair methods with reduced impact on park availability
- Advanced procedures for the evaluation of wind turbine loads without compromising the life of the main components

○ Moderator: Ignacio Gómez. Department head. **Iberdrola - Negocio Renovables**

• Common mistakes and false myths in the filtering of lubricants for wind turbines ○ Roberto González, Field Engineer. **Moove Lubricante**

• Improved lubrication in transmission systems

○ Eduardo Vicente. General Technical Director. **Grupo RIVI**

• LEO Solution -Life Extension in Eolics- a system shipped and self-managed to assess the structural integrity of the main axis of the wind turbine

○ Jokin Rubio, Director of operations. **Tecnalia**

• Optimization of equipment life and fault detection by lubricant diagnosis

○ Mónica Martín, Technical Support Engineer. **Cepsa**

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16H30 IMPLICATIONS IN BUSINESS MANAGEMENT TO EXTEND THE USEFUL LIFE OF WIND

Key topics:

- Incident rates in existing parks, insurance company coverage conditions
- The suitability of diagnostic procedures to evaluate the remaining life of the facilities
- The different experiences of asset management in the last 10 years

○ Moderator: Francisco Sanz. Head of Inspection Services. **DNV GL**

- Characterization of life in structural elements (fatigue) and non-structural elements (wear).

○ Ángel Sedano. Senior Engineer - Asset Management Services. **UL**

- Life extension of LTE wind farms.

○ Juan Tesón. Wind Operation and Maintenance Department. **Endesa**

- The complexity of objectifying the remaining life in a multi-technology scenario.

○ Fernando Castellano. Head of the Department of Renewable Energies - Division of R&D. **Instituto Tecnológico de Canarias**

- Lessons learned in the operation and maintenance of assets based on historical data. ○ Nathan Hill. Energy Resource Services Specialist. **Lloyd's Registers**

17H30 THE EUROPEAN EXPERIENCE: EXTENSION OF LIFE VERSUS REPOTENTIATION

Key topics:

- Specific regulations for repowering
- Treatment of life extension: diagnostic procedures. impact on park operations
- Exchange of experiences. integrated supplies

○ Moderator: Juan Virgilio Márquez, Managing Director. **AEE**

○ Joan Herrera, Managing Director. **IDAE**

○ Olivier Perot. President. **France Energie Eolienne**

○ José Medeiros, General secretary. **APREN**

○ Jakob Juul, Head of Division. **Danish Energy Agency**

18H30 CLOSING SESSION

○ Juan Virgilio Márquez, Managing Director. **AEE**