



Do you want to speak at the First Spanish Wind Energy Congress?

The **First Spanish Wind Energy Congress** is produced in 2015 with the ambition of becoming one of the key meeting points of the wind sector both globally and locally. Based on a programme of political and high-level technical conferences –the result of merging AEE’s Wind Energy Convention and Technical Conferences –, it will bring together a number of leading national and international energy sector leaders, as well as politicians and various institutions. In total, there will be around 250 people. And it will be a key meeting for the establishment of business relations and business development.

The programme will be divided into two parts, a policy one and a technical one. In the latter, case studies on the challenges and solutions that affect our industry will be discussed. And the whole sector is invited to collaborate. How? By participating in this **call for abstracts** which will be open until the 27th of February. Based on the abstracts received, the technical programme of the Congress will be produced. The **First Spanish Wind Energy Congress** will take place on the 22nd and 23rd of June in Madrid. Abstracts will be accepted in both Spanish and English (there will be simultaneous interpretation available at the Congress).

Call for abstracts’ requirements

1. Abstracts shall be in Spanish or English and must include: title, author's name, company’s name (if applicable). They must not exceed 500 words.
2. Abstracts that include case studies and specific examples will be positively valued.
3. Abstracts must be sent by email to eventos@aeolica.org before the 27th of February 2015
4. More than one abstract per company can be submitted but from different authors.
5. The author accepts full responsibility for any copyright claims that may occur.
6. Abstracts on topics that do not appear on this document will also be accepted. In that case, the author must submit a justification for why it considers it relevant to be included.
7. Authors of the finally selected abstracts, one per abstract, will not pay the conference registration fee.



Assessment criteria and abstracts selection

Abstracts will be assessed by the Technical Committee based on the following criteria:

1. Contribution to the knowledge of the industry
2. Practical application
3. Technical quality and detail of presentation

Technical Committee

The Technical Committee is formed by:

- **AEE**
- **CENER**
- **CIEMAT**
- **FUNDACIÓN CIRCE**
- **IDAE**
- **TECNALIA**

Key dates

January 16	Call for abstracts opening
February 27	Call for abstracts last day. Abstracts sent to the Technical Committee
Beginning of March	Technical Committee meeting to assess abstracts
March 27	Programme is produced
March 27	Speakers are notified
April 6	Programme is made public
May 29	Speakers are to send their PowerPoint presentations to be checked by the session chairman who could request changes to suit the requirements.
June 10	Speakers are to send their final PowerPoint presentations

More information

Should you have any query, please, send an email to eventos@aeolica.org

Conference topics

1. The key to wind farms life extension

- Methods to evaluate equipment and machinery
- Repair methods
- Criteria to repair or replace equipment
- R&D opportunities for wind farms life extension: certification needs
- Failure prediction and components residual life

2. Repowering of existing farms

- Opportunities for old farms
- Technical and economic aspects for repowering decision making
- The recycling of equipment and dismantled components
- Environmental and socioeconomic improvements

3. Maintenance current situation

- Different methods of contracting maintenance services
- Methods for cost reduction without altering the life of turbines
- Methods to test new and repaired components
- Monitoring wind farms operation: procedures to process data, big data, condition monitoring...
- Failure causes: fatigue, climate factors, grid behaviour...
- R&D opportunities in the maintenance of wind farms

4. Connection requirements for wind farms: effect on turbines and their operation

- Voltage control
- Power/Frequency Regulation
- Inertia emulation
- Hybrid solutions
- Control strategies for grid services forecast
- R&D opportunities for the integration of wind power in the grid

5. Supply chain current situation

- Diversifying products
- The development of new products adapted to the different characteristics of the grid and the wind
- The importance of test plants: results
- Experimental wind farms: improvement opportunities
- Improving existing equipment, new solutions, reverse engineering...
- R&D opportunities in the supply chain
- Internationalization opportunities: how does the supply chain affect the country of origin; dragging effect produced by large companies
- Lightening of materials and improved alloys
- Flexible manufacture methods

6. Offshore wind power

- New developments in the transport of equipment and staff
- Procedures for testing in pilot plants and supplying to other markets
- Business diversification opportunities due to the knowledge of working at the sea
- The importance of R&D
- The importance of certification and design (standards)
- Opportunities for the Spanish offshore wind industry: success experiences
- Testing farms in Spain
- Logistics, installation and infrastructure
- Substructures and their industrial use
- Big turbines
- Electric infrastructures: Wind farms substations, electric topologies, cables, submarine connectors and installation

7. Distributed generation: practical examples

- Profitable projects without incentives
- Weak grids
- Pumping, irrigation

8. Wind resource, prediction and tools

- Criteria to evaluate wind resource: experiences and improvements
- Forecasting tools: current situation, improvements on deviations, forecasting in anomalous situations
- Adding equipment to improve productivity: LIDAR, sonic anemometers

9. Materials

- New materials for equipment and components: cost reduction, availability improvements
- Testing procedures
- Effects on design and manufacturing