

AIRBORNE WIND ENERGY 2024 CONFERENCE

25-26 APRIL 2024
MADRID
Universidad Carlos III
AWEC2024.COM

The 10th edition of the Airborne Wind Energy Conference (AWEC 2024) was held at the Universidad Carlos III de Madrid from the 25th to the 26th of April 2024.

Over 180 key actors from more than 23 countries gathered to debate challenges and opportunities in the pursuit of the launch of airborne technologies. Attendees included scientists and engineers, professors and students, entrepreneurs and investors, who convened to share their experiences, findings, opportunities and visions for airborne wind energy.



The program was opened with a speech from Cristina Trueba of the Ministry of Science and Innovation in Spain who emphasised the growing interest and investment in renewable technologies.

The conference then evolved with plenary talks by Jochem Weber (NREL), Fernando A.C.C. Fontes (Universidade do Porto) and Sarah Barber (Eastern Switzerland University of Applied Sciences), overall representing the field of renewable energy and airborne wind energy, spanning technical and strategic visions - including digital, industrial and business developments, and academic research.

David Lecoque, CEO of the Alliance for Rural Electrification, Romain Gellée from ENGIE Laborelec as well as Cristina Archer from the University of Delaware and pioneer of

AWEC, having attended the first edition 2009 in Chico placed their insightful contributions with a widespread of topics.

The entire conference programme featured:

- 7 plenary talks by invited experts from international agencies, industry and academia
- 70 oral presentations in 15 sessions arranged in three parallel tracks
- 2 panel discussions with 11 OEM presentations covering all aspects of airborne wind energy
- a poster session, preceded by plenary spotlight presentations.

The multiple streams run in the regular presentation session allowed attendees to choose from the following topics: *Modelling and Control; Prototyping & Operation; Resource, Siting and Acceptance; Techno-Economic Studies; Materials & Structures; Aerodynamics; Performance & Optimization; Scenario Exploration Design, Safety & Certification*, as well as *Economic potential, Technology Development Effects and AWES Status & Outlook*.

The [conference programme](#) covered all of these topics.

A book grouping the abstracts of all content shared at the conference can be viewed [here](#).

Special highlights within the conference days were:

- showcase of Kitepower 40m² kite, together with the Mobile AWES ground station demonstrator of CT Ingenieros/ UC3M
- Presentation of the first ever validated power curve of an AWE system, provided by Skysails Power.
- Live broadcasting of the positive vote within the German Parliament for the “EEG- Solar package”, adopting the world’s first feed-in tariff for AWE.

All delegates were greatly enthused to attend the conference and the feedback was very positive.



Thank you again for your attendance & contributions!

Your team of AWEC2024!