

Abstract submission kit: science and research track

WindEurope Annual Event 2022

Please read the information in this document carefully before submitting your abstract.

The call for abstract will close on 31 October 2021 at 23:55 CET

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1. Programme development timeline

September 2021	Abstract submission portal opens, with full instructions and sub-topics Call for abstracts topics & deadline published on https://windeurope.org/annual2022/conference/
31 October 2022	Call for abstracts portal closes at 23:55 CET
November 2022	Abstract review Members of WindEurope and EAWE will review, evaluate, and score abstracts in their field of expertise. This helps the programme committee to build a high-quality programme and keep commercial content out.
January 2022	Programme & presenters confirmed Based on the outcomes of the review, the programme committee creates session proposals for the technical track using the highest scoring abstracts. Notifications of selection will be sent by WindEurope to those selected for a speaking slot or to produce a poster.
31 January 2022	Submission of draft full paper on the IOP portal.
February-March 2022	Session preparation Session chairs to liaise with confirmed presenters to prepare their session, coordinate presentation objectives, and refine content.
04 February 2022 - 04 March 2022	Scientific full papers review Full papers from the scientific track to be reviewed by EAWE in view of their publication in the IOP Journal of Physics conference series.
18 March 2022	Submission of final scientific paper on the IOP portal.
5-7 April 2022	WindEurope Annual Event 2022 Session chairs and presenters attend a final briefing session in the speakers' room at the venue, the Bilbao Exhibition Centre (BEC) in Bilbao, Spain, before their session starts.
April 2022	Proceedings published General proceedings accessible to full conference delegates on https://windeurope.org/annual2022/ and to WindEurope members in the WindEurope members' area . Scientific proceedings (full papers) will be published 4 to 6 weeks after submission, in open access in a dedicated volume of the IOP Journal of Physics: Conference Series edited by EAWE.

2. Essential requirements for abstracts

Science & research abstracts must describe work that has been done at the moment of submission, not work that will be done. The style of writing may be brief and incomplete, as long as the essential steps in the research are clear and convincing. It should contain new work, not yet published and should not describe work presented at other conferences. It should contain a complete reference list that is not included in the word count given on the website.

- Abstracts should contain **new work, not yet published or presented elsewhere**.
- **No sales pitches!** Abstracts should not contain overtly promotional or commercial content, but rather strive to present data or results that can contribute to bringing the industry forward.

- **WindEurope reserves the right to refuse/reject overly commercial abstracts.**

- Submitted under the **correct topic and challenge**
- Abstracts must respect the **word limits**:
 - Total length: **maximum 1,500 words**
- Abstract format:
 - PDF (incl. text plus graphs, charts or images as necessary, and embedded fonts). **Please include abstract title, presenting author, co-authors and affiliations in your PDF.**
 - Submitted abstracts should be divided in 5 sections:
 - 1. Introduction**
Briefly describe the work to be discussed in your presentation.
 - 2. Approach**
Briefly describe the approach you used
 - 3. Main body of abstract**
 - 4. Conclusions**
Outline the significant implications that your paper has for the industry.
 - 5. Learning objectives**
If this abstract is presented at the conference, what will delegates learn? Focus on what your abstract will enable them to do in their own jobs.
- **Abbreviations** should be **defined** on first use.

3. About the scientific review

Science & research content at our events are organised in cooperation with the [European Academy of Wind Energy \(EAWWE\)](#), a world-leading wind energy academic & research community. The Academy will bring delegates leading edge wind energy research results, keeping Europe at the forefront of wind energy innovation. This offers a forum for in-depth presentations and discussions on progress and results of wind-energy related scientific research.

To result in coherent sessions and a balanced programme, sessions in the technical and scientific programme will include the very best presentations on each specific topic, whether they are from 'general' or 'science & research' abstracts. .

4. How are abstracts rated and selected?

All abstracts are anonymously peer-reviewed by minimum three experts of the field. Reviewers read each assigned abstract and give it:

- A numerical grade to assess the abstract;
- a recommendation, which will serve as a guide for the programme committee.

Numerical grading of science & research abstracts

Reviewers of science & research abstracts will base their grades on the following criteria:

- the abstract must describe work that has been done at the moment of writing the extended abstract, not work that will be done.
- while the style of writing may be brief and incomplete, the essential steps in the research must be clear and convincing.
- the abstract should contain new work, not yet published.
- the abstract should include a complete reference list.
- the methodology and results should be plausible and free of errors.
- the work in the abstract should be up to date as regards previous knowledge and the contribution of others.
- the work should be scientifically/technically relevant.

Each criterion will be marked from 1 to 3, giving a maximum score of 21. The final grade is calculated as the average of all grades received. The 1-3 scale for each criterion is:

1 = not sufficient

2 = adequate

3 = good

Recommendations made by abstract reviewers

As well as providing a numerical score for your abstract, each reviewer will make a recommendation. The options available to reviewers are:

- *This abstract should be rejected*
- *I strongly recommend that this abstract is selected for a poster presentation*
- *This abstract is more suitable for a poster presentation than an oral presentation*
- *This abstract is more suitable for an oral presentation than a poster presentation*
- *I strongly recommend that this abstract is selected for an oral presentation*

Please note the recommendations of reviewers are intended as a guide for the programme committee. They do not guarantee the final outcome.

Abstract selection process

After the review is completed, the programme committee members receive the overview of all scored abstracts. Based on the scores, the reviewers' comments and planned session topics, the programme committee will draft session proposals and select which abstracts are eligible for a speaking slot in a session and which are eligible to produce a poster. These proposals are the base to determine the technical and scientific programme outline for the conference.

5. How to write a good abstract

An abstract is a short document that is intended to capture the interest of the reviewers. It should engage the reader, making it clear what your idea is about and why it would make an excellent oral or poster presentation.

Keep the following in mind to ensure that yours has a good chance of being accepted.

- Don't leave preparation of your abstract to the last minute.
 - There's no problem submitting right before the deadline (we get 90% of abstracts in the final 48 hours!) but give yourself enough time to think about how best to present your work.
- Keep the abstract requirements and scoring process (above) in mind so you understand the criteria your abstract will be marked on.
- Ensure that your ideas are well thought out and follow a logical, coherent flow:
 - State the issue to be discussed;
 - Give a brief background to the issue;
 - Brief description of what you are doing to address it;
 - Implications/outcomes: why is what you've done of value to other specialists?
- Ensure that the abstract relates to the chosen topic and challenge in a direct way.
- Ensure your abstract will contribute to the conference:
 - Highlight why your work is innovative: what new ideas/research will you bring to the people who are listening to you?
 - How is your work relevant to delegates? What will they learn and what can they take back to their jobs?
- Think of an attention-catching title:
 - It should still be clear what you want to present;
 - Avoid using acronyms in your title;
 - If selected for a session, a good title will encourage delegates (including generalists such as journalists) to come and listen to you.
- Look at past abstracts/conference papers to pick up the tone and style of successful abstracts.
- Run your abstract past someone who is familiar with both the topic and this type of abstract process.

6. Scientific proceedings

Eligibility of scientific paper submission

By submitting an abstract in the scientific track, you commit to submit a full paper that will be published in the conference's scientific proceedings in a specific open access volume of the *IOP Journal of Physics: Conference Series*, provided you fulfil certain requirements.

Please note that not all abstracts submitted under the *science and research track* are eligible for a scientific publication. To be eligible you must meet the following criteria:

1. having submitted an abstract in the *science and research track*; **AND**
2. your abstract must be selected for an *oral presentation* in the technical and scientific programme.

Important information regarding the IOP Journal of Physics: Conference Series

Please find below a list of some points to keep in mind about the scientific publications. More information, planning for publication and review will be shared in due time by the conference secretariat to eligible candidates

- Conference Series operates a publishing licence, under which authors retain copyright of their papers and they no longer need to sign and submit copyright assignment forms. Any author who wishes to publish in IOP Conference Series must agree to the terms of the licence and by submitting a paper for publication it is assumed all authors of the paper agree, in full, to the terms of the licence.
- IOP Conference Series uses author-supplied PDFs for all online and print publication. Authors are asked to prepare their papers using Microsoft Word or LaTeX, according to the journal guidelines and templates, and then convert these files to PDF.
- It is important to ensure that when you submit your paper, it is in its final form ready for publication, and has been thoroughly proofread. IOP do not copyedit papers and will not send out author proofs prior to publication. Please note that post-publication changes are not usually permitted and will be made at the sole discretion of the Publisher. Please ensure your paper has been checked for errors.

7. Copyright

By submitting an abstract to the WindEurope Annual Event 2022 and if your abstract is selected for a speaking slot or a poster, you implicitly give your permission to WindEurope asbl/vzw to reproduce your full paper/PowerPoint or poster presentation/abstract in the conference proceedings of the event. However, this does not forfeit your right to publish your full paper/PowerPoint or poster presentation/abstract in any other medium, nor does WindEurope retain any exclusive rights over it.

8. Questions

The conference programme team is at your disposal if you have any questions.

Conference Programme Team
Lorenzo, Carolina, Rébecca & Dominique

E conference@windeurope.org

T +32 2 213 18 42

9. List of topics

We are looking for **concrete examples** of already **implemented operational solutions**, experience and feedback from the field, including **real-world data**, as well as **innovative research, concepts and ideas**, under the following headline topics:

- Onshore wind
- Offshore wind
- Electrifying the energy system

Topic	Abstracts invited on sub-topics including but not limited to:
Onshore wind	<ul style="list-style-type: none"> • Onshore wind: assessing the resource <ul style="list-style-type: none"> ○ Modelling ○ Wakes and blockage ○ Measurements ○ Big data & machine learning • Onshore turbines: design innovations <ul style="list-style-type: none"> ○ Towers ○ Blades: making them more silent and resistant ○ Electrical components ○ Operation in extreme conditions (cold climate, tropics, extreme weather events) • Onshore turbines: reducing costs • Onshore turbines: boosting performance <ul style="list-style-type: none"> ○ Measurements and testing ○ Control and monitoring • Onshore turbines: circular approaches <ul style="list-style-type: none"> ○ Rotor blades recycling • Onshore wind farms: easing permitting <ul style="list-style-type: none"> ○ Community engagement ○ Regulatory approaches • Onshore wind farms: environmental impacts <ul style="list-style-type: none"> ○ Biodiversity ○ Noise • Onshore wind farms: siting • Onshore wind farms: optimizing operations <ul style="list-style-type: none"> ○ Installation & logistics for larger turbines ○ Wind farm control & monitoring ○ Big data, Artificial Intelligence and machine learning ○ Maintenance • Onshore wind farms: end of life <ul style="list-style-type: none"> ○ Extending lifetime ○ Decommissioning ○ Repowering • Onshore wind farms: safe operations <ul style="list-style-type: none"> ○ Skills & training ○ Health and safety standards & culture

Offshore wind

- Offshore wind: assessing the resource
 - Modelling
 - Wakes and blockage
 - Measurements
 - Big data and machine learning
- Offshore turbines: design innovations
 - Turbines and components
 - Fixed-bottom foundations
 - Floating foundations
 - Blades: improving aerodynamics and limiting erosion
 - Operation in extreme conditions (cold climate, tropics, extreme weather events)
- Offshore turbines: reducing costs
- Offshore turbines: boosting performance
 - Measurement and testing
 - Control and monitoring
- Offshore turbines: circular approaches
 - Components recycling
- Offshore wind farms: easing permitting
 - Happy coexistence with civil and military aviation and ships
 - Happy coexistence with fisheries
 - Preserving marine biodiversity
 - Maritime spatial planning
- Offshore wind farms: siting
- Offshore wind farms: installation
 - Port infrastructure
 - Vessels
 - Cables
 - Floating wind turbines
- Offshore wind farms: optimizing operations
 - Control and monitoring
 - Big data, Artificial Intelligence and machine learning
 - Maintenance
- Offshore wind farms: safe operations
 - Skills & training
 - Health and safety standards & culture
- Offshore Wind Farms: dismantling and decommissioning
- Floating offshore wind
 - Lessons from projects

Electrifying the energy system

- Onshore grid
 - New technologies
 - Financing grid optimization and technology roll-out
 - Data exchanges with TSOs/DSOs
 - Cybersecurity
- Offshore grid
 - Cables (export cables, inter-array cables, cables for clustering, cables for floating wind)
 - HVDC developments, including HVDC multi-vendor multi-terminal offshore grids
 - Hybrids and clusters
 - Infrastructure for Floating OWFs
 - Financing the offshore grid: business models
 - Cybersecurity
- Market integration
 - Boosting the value of wind
 - Market designs for large-scale integration of renewables
 - Grid codes
 - System services
- Flexibility solutions & Technologies
 - Improving wind power forecasting
 - Hybrid and virtual power plants (wind + other generation such as solar PV)
 - Storage solutions
 - Ancillary services
- Renewable hydrogen
 - Electrolyser technologies
 - Coupling wind and hydrogen
 - Hydrogen fuels
 - Infrastructure
 - Regulatory issues
 - Showcase real projects
- Wind-to-X: renewable electrification solutions for industrial applications
 - Wind + E-charging
 - Heating
 - Manufacturing processes
 - Commercial and residential electrification
- Energy system resilience (extreme weather)