Abstract submission kit: Student Posters

Electric City 2021

Please read the information in this document carefully before submitting your abstract.
The call for poster abstract will close on 24 September 2021 at 23:55 CET

Content

Version 06 July 2021

1. Timeline

July 2021	Call for student posters topics & deadline published on https://windeurope.org/ElectricCity2021/
July 2021	Abstract submission portal opens, with full instructions and sub-topics
24 September 2021	**Call for Student Posters closes at 23:55 CET**
October 2021	**Poster review** Members of EAWE and WindEurope will review and evaluate the submitted posters. These evaluations will establish which submissions are accepted to be presented as an electronic poster.
October-November 2021	**Notification of selection** Submitters will be informed if their poster has been selected to be presented as an electronic poster for Electric City 2021. The conference secretariat may reach out to request slight adaptations to poster files if necessary.
23-25 November 2021	**WindEurope Electric City 2021**

2. Eligibility

To be eligible for consideration, authors must fall under one of the below categories. Proof of enrolment is mandatory and must be uploaded in your submission:

- A master student in your last year, with a thesis that will have been defended by the time the event takes place;
- A PhD student in your first year;
- A student working in a temporary research group, which meets the following criteria:
    1) The research group must be financed by a public R&I funding programme (EU or national);
    2) The research group must be time-limited (a specific department or unit within a faculty does not count as a research group);
    3) The research group must still be active by the end of 2021;
    4) Submitter and main author must be a PhD student.

    Examples of eligible groups would be Marie Curie International Training Networks, ERC Grants, Independent Junior Research Groups, Collaborative Research Centres or other national equivalents.

Proof of enrolment is requested and mandatory to be eligible for selection.

3. Poster template download

CLICK HERE TO DOWNLOAD
THE POSTER TEMPLATE

CLICK HERE TO DOWNLOAD
THE RECORDING GUIDELINES

4. Submission requirements

- Authors must fall under one of the eligible categories.
- Your poster must describe **work/research you, as student or research project are working on.** Be it alone, with a team or with a mentor. The objectives of the research as the planned methodology must be clearly presented, as well as any outcomes/findings that may have been reached to date.
- **No promotional pitches:** Posters should not promote a specific project or research group or university department, but rather strive to present data, approaches, objectives and/or results that can contribute to bringing the sector forward.
- **Poster:** only posters using the official WindEurope templates will be considered valid. Go to section 3 of the document to download the WindEurope Student Poster Template.
- **Recording:** alongside your poster, you will have to provide a recorded 3-minute flash talk where you present your work. Please send your recording to conference@windeurope.org after having submitted your poster file – we ask you to use your *poster submission ID* to name your recording. We recommend using WeTransfer to send your file. Go to section 3 of the document to download recording guidelines here.
- **Submission criteria:**
    - You must use the poster template provided by WindEurope.
    - Posters **must be submitted in PPTX forma**t (incl. text plus graphs, charts or images as necessary, and embedded fonts).
    - **Please include poster title, presenting author, supervisor/thesis director and affiliations in your poster file.**
    - **Abbreviations** should be **defined** on first use.

Posters should include:

1. **Title**
2. **Collaborators & affiliations**
3. **Abstract:**
   Briefly describe the work to be discussed and specify its nature (Masters' Thesis, PhD project, research group scope of activities)
4. **Background & literature review**
   Briefly outline existing literature and what your research is to add to it
5. **Research questions**
   Expose the problems are you trying to solve
6. **Approach, materials & methods**
   Describe the approach you (intend to) follow, i.e. the material / data you (intend to) use and the methodology you (intend to) apply. Explain the strengths and limitations of your approach.
7. **Results**
   Detail any expected or achieved results.
8. **Discussion & Conclusions**
   Outline the significant implications that your research may have for the sector, and any future directions unanswered questions in your research point towards.
9. **Acknowledgements & Contact information**
   Don't forget to acknowledge help from others, funding sources, and to include your contact information, so people can reach out to you!

5. How posters will be selected

Members of EAWE and WindEurope will review and evaluate the submitted posters. These evaluations will establish which submissions are accepted for presentation as an electronic poster.

Individual recommendations may be given by the reviewers, and these are intended as constructive feedback if there are any. The Conference Secretariat may come back to you if any update is requested for the final version of the poster.

Reviewers will base their decision on the following criteria:

- objectives, methodology and findings (if any) must be presented clearly;
- the methodology and results (if any) should be plausible and free of errors;
- the work in the poster should be up-to-date as regards previous knowledge and the contribution of others;
- the poster should include a reference list;
- the work should be scientifically/technically relevant.

6. About the reviewers

This call for student posters for Electric City 2021 is organised in cooperation with the European Academy of Wind Energy (EAWE), 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.

7. Questions

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

Conference Programme Team
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8. List of topics

Below is the full list of topics. You will have to select one of the following headline topics:

- Onshore wind
- Offshore wind
- Electrifying the energy system

You may select up to **5 subtopics maximum.**

Topic	Abstracts invited on sub-topics including but not limited to:

Onshore wind	• Onshore wind: assessing the resource
	  ○ Modelling
	  ○ Wakes and blockage
	  ○ Measurements
	  ○ Big data
	• Onshore turbines: design innovations
	  ○ Towers
	  ○ Blades: making them more silent and resistant
	  ○ Electrical components
	  ○ Operation in extreme conditions (cold climate, tropics)
	• Onshore turbines: reducing costs
	• Onshore turbines: boosting performance
	  ○ Measurements and testing
	  ○ Control and monitoring
	• Onshore turbines: circular approaches
	  ○ Rotor blades recycling
	• Onshore wind farms: easing permitting
	  ○ Community engagement
	  ○ Regulatory approaches
	• Onshore wind farms: environmental impacts
	  ○ Biodiversity
	  ○ Noise
	• Onshore wind farms: siting
	• Onshore wind farms: optimizing operations
	  ○ Installation & logistics for larger turbines
	  ○ Wind farm control & monitoring
	  ○ Big data, Artificial Intelligence and machine learning
	  ○ Maintenance
	• Onshore wind farms: end of life
	  ○ Extending lifetime
	  ○ Decommissioning
	  ○ Repowering
	• Onshore wind farms: safe operations
	  ○ Skills & training
	  ○ Health and safety standards & culture

Offshore wind	• Offshore wind: assessing the resource
	  ○ Modelling
	  ○ Wakes and blockage
	  ○ Measurements
	• 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)
	• 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
	  ○ 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