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## EERA Joint Programme on Wind Energy - Newsletter - May 2022

### News from the Coordinator

Dear all, this newsletter is short - aiming to draw your attention to four upcoming events:

- Call for presentations for the EERA workshop on "Hydrogen from Wind"- 22/23 September
- SP3 & SP4 Workshop "How Wind Energy Research can make the most of advances in High Performance Computing (HPC)?" - 16 June 10:00 - 12:00
- EU Policy Workshop on REPowerEU - 17 June 2022 10:00-11:30
- SP7 Workshop on Rotorblades - 23 & 24 June

The latest information is always posted on the JP Wind website: <https://www.eerajpwind.eu>

Note that we organise the EERA JP Wind Innovation Forum from September 19th to 23rd.

**Peter Eecen – JP Wind Coordinator**

**Call for presentations for the EERA workshop on "Hydrogen from Wind"- 22/23 September**

The first EERA Workshop on "ongoing research in Hydrogen from Wind " takes place September 22-23 2022 in Amsterdam

### **Aim of the workshop**

The event is meant as an exchange between researchers on the interaction between wind energy and hydrogen production, therefore it is explicitly planned as a live event.

### **We offer:**

- Excellent networking opportunities outside the presentations as well, hence we will have extensive breaks and social program
- A strong basis for exchange and future cooperation between research organisations, universities and industry.
- A good impression of "who's doing what" across Europe

### **Topics**

The workshop concentrates on research on the interaction between wind energy and hydrogen generation, such as:

- The grid will provide: can we trust the grid to provide a constant stream of electricity from wind energy to electrolyzers?
- Dynamic operation of electrolyzers and wind turbine optimisation for hydrogen production
- Off- & weak grid operation
- Hydrogen logistics & transportation

- Economic and regulatory aspects
- Standardisation
- Technological developments in electrolyzers ready for offshore
- Peripheral Hardware for offshore
- Coordination of research efforts
- Test methods and research infrastructure

We particularly welcome results from industry and from European and national research projects.

### **Presenters**

We strongly encourage all presenters to come to Amsterdam, since it is the interaction and networking that is the focus of this event.

### **Abstract**

The call for contributions is officially open. Please mention:

- In the subject of the email put: Hydrogen from Wind, so we know for which event this is meant and your abstract does not get “lost”
- Title of the presentation, name of presenting actor, affiliation
- Contact data
- Highlight the framework (e.g. industrial/national project/European project) of your research
- **Main aims and results to date.**

Abstracts (about 1 A4) can be directly submitted to the EERA JP Wind Operations & Communications Manager, Julien Balsen ([j.balsen@eera-set.eu](mailto:j.balsen@eera-set.eu)) by **1 August 2022** .

## Papers

Papers are not foreseen, as this event is particularly about ongoing research, rather than polished results. Please point out not just positive results but also problems encountered and things that did not go according to plan – this where others can learn from or may be able to help you out!

## About EERA JP Fuel cells and Hydrogen

The Joint Programme sustains research for European leadership in fuel cell, electrolyser and hydrogen technology. The joint programmes bring together all public research organisations in Europe with substantial research and innovation efforts.

**“How Wind Energy Research can make the most of advances in High Performance Computing (HPC) ?” (Subprogram 3 & 4 Workshop)**

16 June 10:00 - 12:00, Online

It is a pleasure to inform you about an upcoming workshop organized by EERA JP Wind (Subprogram 3 “Wind conditions and climate” and Subprogram 4 “Aerodynamics, loads and control”). The workshop will be hosted by EERA JP Wind on Zoom on 16th June 10:00-12:00.

The workshop aims to share knowledge about High Performance Computing (HPC) and its application, to EERA JP Wind members. HPC is used in many research areas within Wind Energy, from climate and

meteorology, to computational fluid dynamics, to structural and electrical engineering, and more besides. While performance of HPC systems continues to grow rapidly, can we be sure that our methodologies running on these platforms fully exploit these higher capabilities? Is the research pushing the capabilities, or are the capabilities pulling the research? What is the correct balance between using expensive advanced HPC resources and finding methods that need fewer HPC resources?

10:00 Workshop opening by Jake Badger (SP3 coordinator)

10:05 Dr Michele Weiland, University of Edinburgh, UK (guest speaker) "Modelling and simulation in the Exascale era"

10:40 Assoc. Prof. Dr. Richard Stevens, University of Twente, NL (guest speaker) "Fluid Physics and High Performance Computing Modeling Challenges of Wind Farms"

11:15 Prof. Stefan Ivanell, Uppsala University, SE (invited) "Towards industry LES for wind farm flows using GPU-based lattice Boltzmann solvers"

11:50 Mikel Iribas, CENER, ES, "Engineering High Computed needs for offshore wind developments"

12:25 Workshop close by Antonio Ugarte Olarreaga (SP4 coordinator)

12:30 Close

Talks are 25 minutes with 10 minutes for questions, after each talk.

If you're interested, please [register here](#)



## **EERA EU Energy Policy Review: Impact on Renewable Energy**

**17 June 2022 - 10:00 hours - online**

## **RePowerEU Action Plan: Update and Impact**

**Rosita Zilli - Peter Eecen**



### **EU Policy Workshop on REPowerEU**

17 June 10:00 - 11:30, Online

In response to the hardships and global energy market disruption caused by Russia's invasion of Ukraine, the European Commission launched the REPowerEU Plan to:

- save energy
- produce clean energy
- diversify our energy supplies

The new geopolitical and energy market realities require us to dramatically accelerate our clean energy transition and increase Europe's energy independence from unreliable suppliers and volatile fossil fuels.

REPowerEU is the European Commission's plan to make Europe independent from Russian fossil fuels well before 2030, in light of Russia's invasion of Ukraine.

The REPowerEU plan sets out a series of measures to rapidly reduce dependence on Russian fossil fuels and fast forward the green transition, while increasing the resilience of the EU-wide energy system

In collaboration with EERA Secretariat, this new Policy Workshop will focus on the implications of REPowerEU on renewable energy.

If you're interested to participate, you can [register on this link](#)

### “Rotor Blade Materials, Components, Structures” (Subprogram 7 Workshop)

23 & 24 June, Roskilde (Denmark)

The EERA SP7 Workshop on “Rotor Blade Materials, Components Structures” (**EERA SP7 Blade Workshop**) takes place **June 23-24 2022** in **Roskilde, Denmark**

#### **Aim of the workshop**

Join participants from leading research organizations in Europe to discuss and exchange the latest research in manufacturing, modelling and testing of next-generation wind turbine blades across material, component and structural scales.

#### **Venue**

The meeting room in the basement of building 101 at the DTU Risoe campus. DTU Risoe campus, Frederiksborgvej 399, 4000 Roskilde, Denmark

Please, see the full program [here](#)

**EU News : Germany, Denmark, the Netherlands**

## and Belgium sign a 135 billion euro pact for offshore wind

The heads of government of the countries bordering the North Sea met in the Danish city of Esbjerg on Wednesday (May 18) to sign a cooperation agreement on the development of offshore wind and green hydrogen. **They are targeting at least 65 GW by 2030 and 150 GW by 2050.** In a joint declaration, the North Sea countries affirm their intention to become the "green powerhouse of Europe". Reliable winds, shallow waters and the proximity of electricity-intensive industrial centers make the North Sea an ideal location for the installation of offshore wind farms. *"The agreement reached today by the energy ministers is an important step in cross-border cooperation. It forms the basis for the first real European power plants that also produce electricity from renewable energies,"* explained German Vice-Chancellor Robert Habeck. *"Together with our partner countries, we can develop offshore wind energy in the North Sea region even faster and more efficiently and tap into new green hydrogen potential,"* he added, noting that this would *"further reduce our dependence on gas imports."*

**The agreement aims to increase offshore wind energy capacity in the region tenfold, with total private sector investment expected to reach €135 billion.** *"Using the wind, using the North Sea is an old tradition in our countries,"* said German Chancellor Olaf Scholz, former mayor of Hamburg, the hub of North Sea shipping. Offshore wind is no longer dependent on subsidies and is becoming *"cheaper and cheaper,"* he added, saying the time is *"for industrialization."* The ability to build these projects without public support makes them particularly attractive to policymakers. *"I am so happy that some*



*of these wind farms are now being developed without public money being involved,"* stressed Mark Rutte, the Dutch prime minister. *"We are making European history!"* tweeted Brian Vad Mathiesen, a renewable energy researcher at Aalborg University in Denmark. **The agreement, he added, will provide electricity to more than 200 million homes.**



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