



24-25  
October  
2022

# Wind power research in focus 2022

 Energiforsk

**STandUP**  
*for*  
**WIND**

 **SWPTC**  
SWEDISH WIND POWER TECHNOLOGY CENTRE

**RI**  
**SE**



# Program

## Monday 24th of October.

11:00 REGISTRATION

11:30-13:00 LUNCH

13:00-13:30 Opening session in Pascal

**Welcome to Wind power research in focus**

*Sara Fogelström, Swedish Wind Power Technology Centre  
Stefan Ivanell. STandUP for Wind*

### Parallel sessions

Pascal

Tesla

13:30-15:00 Siting

System integration

**Towards Large-eddy  
Simulation of Wind Farm  
Flows for Industrial  
Applications**

*Henrik Asmuth, Uppsala  
university*

**Coupled wind and wave  
simulations for offshore  
wind energy**

*Salur Basbag, RISE*

**Coastal effects on the  
Baltic Sea wind profile**  
*Christoffer Hallgren, Uppsala  
university*

**Numerical modelling of  
neutral atmospheric  
boundary layer flow over  
complex terrain covered by  
the heterogeneous forest**  
*Hamidreza Abedi, Chalmers  
University of Technology*

**System balancing at nearly  
100% renewable electricity  
generation**

*Henrik Nordström, KTH Royal  
Institute of Technology*

**Wind power and frequency  
regulation in Sweden –  
Technical performance and  
economic evaluation**

*Mattias Persson, RISE*

**Use of Physics-informed  
neural networks for ageing  
prediction and lifetime  
extension of wind farm  
components**

*Federica Bragone, KTH Royal  
Institute of Technology*

**Frequency regulation and  
system services for FFR from  
existing wind power**

*Mats Goldberg, Anders  
Wickström, RISE*



**15:00-15:30 COFFEE**

**15:30-17:00 Operation & Maintenance Planning**

**Methods for supervision of bolt pretension:**

**Improvements of Bolted**

**Flange Joints in Wind**

**Turbine Towers by Use of**

**Slender Bolts and Sleeves**

*Anders Wickström, RISE*

**Transient torque reversals in wind turbine drivetrains: occurrence, consequences and mitigation**

*Saptarshi Sarkar, Chalmers university of Technology*

**Future sustainable recycling processes for wind turbine blades**

*Cecilia Mattson, RISE*

**Rekovind2: Mapping and digitization of the flow of wind turbine blades**

*Alann André, Thomas Bru, RISE*

**Land-use synergy**

*Johan Svensson, SLU*

**Regional wind power planning**

*Ulla Mörtberg, KTH Royal Institute of Technology*

**Planning offshore**

*Karin Olsson, Marine Monitoring*

**17:00-18:00 MINGLE**

**18:00- DINNER**



## Tuesday the 25<sup>th</sup> of October

### Parallel sessions

Pascal

Tesla

09:00-10:30

**Future energy landscape**

**Turbine technology**

**The role of wind power in the future Swedish power system**

*Lennart Söder, KTH Royal Institute of Technology*

**Wind Sector Management using Parabolic Equations for Sound Propagation**

*Karl Bolin, KTH Royal Institute of Technology*

**Infrastructure in the landscape**

*Karin Hammarlund, Samskapet*

**Design and production methods for sustainable and cost-effective wind turbine foundations**

*Alexandre Mathern, NCC Sverige*

**Disinformation regarding wind power online**

*Elisa Wallin, The Swedish school of library and information science*

**Modeling of ice accretion on wind turbine blades**

*Robert Zoltan Szasz, Lund University*

**Methods and material for sustainable wind turbine towers: Swedish towers made from spruce. Including impact from fire, on-site gluing and moisture**

*Anders Wickström, RISE*

10:30-11:00

**COFFEE**

**One session in Pascal**

11:00-12:00

**Keynote**

**Future possibilities and challenges from an industry perspective**

*Henrik Sjöström, OX2*

*Anders Rylin, SR Energy*

12:00-13:00

**LUNCH**



**13:00-13:30**    **Summary and discussion**

*The session chairs will give a short overview of the latest within the field during a panel discussion together with keynote speakers.*

**13:30-14:00**    **Launch of Swedish Wind Centre**

*Stefan Ivanell and Sara Fogelström will present the new initiative, Swedish Wind Centre, gathering a large part of Swedish academy and industry within the wind energy field.*