

**Monday September 25<sup>th</sup> – Plenary hall 1**
**Plenary sessions**

- 09.30 – 10.00 *Opening and welcome* by **Pjotr Tulej**, **European Commission**  
Head of Unit Energy and Environment at European Commission
- 10.00 – 10.15 *IRPWind conference 2017* by **Peter Hauge Madsen**  
IRPWind project coordinator,  
Head of Department Wind Energy, DTU
- 10.15 – 10.30 *IRPWind in 2016/2017: status update* by **Mattias Andersson**  
Senior Adviser, DTU Wind Energy  
Work package leader “Integrating activities” in IRPWind

**Sub-Programme 7 – Wind integration – economic and social aspects**

Chair: Klaus Skytte (SP coordinator)

Facilitator: Martijn van Roermund

- 10.30 – 10.40 *Sub-programme meeting, status update*  
Klaus Skytte, DTU Management
- 10.40 – 11.05 *Price based renewable energy roll-out in the North Sea region (NSON-DK) towards 2050*  
Thure Traber, DTU
- 11.05 – 11.25 *Regulatory frameworks to activate TSOs cooperation in international offshore wind farms projects*  
Claire Bergaentzlé, DTU
- 11.25 – 11.40 *Assessing and promoting the societal embedding of energy innovations*  
Bianca Maria Poti, CNR
- 11.40 – 12.00 *Mapping Actor Value Perspectives on Wind Power Projects*  
Kristian Borch, DTU
- 12.00 – 13.00 *Project proposal workshop, H2020 wp18-20*  
Klaus Skytte, DTU Management

13.00 – 14.00 Lunch and poster session

**Sub-Programme 5 – Offshore wind**

Chair: John Olav Tande (SP coordinator)

Facilitator: Martijn van Roermund

- 14.00 – 14.15 *Progress of offshore wind energy research*  
John Olav Tande, SINTEF
- 14.15 – 14.30 *Methodology for benchmark of offshore wind turbine models*  
Pawel Gancarski, CENER
- 14.30 – 15.00 *Case 1: floating turbine free decay test*  
Gordon Stewart, NTNU
- 15.00 – 15.30 *Case 2: fixed turbine eigen frequency evaluation*  
David Robert Verelst, DTU
- 15.30 – 16.00 *Wind farm models and control systems*  
Olympe Anaya-Lara/William Leithead, University of Strathclyde
- 16.00 – 16.30 *Summing up, concluding remarks, final Q&A*  
John Olav Tande, SINTEF

**Plenary sessions**

- 16.30 – 17.00 *Borssele 3 & 4*  
Erik de Boer, Project Director, Blauwwind
- 17.00 – 17.30 *Airborne wind energy system*  
Bernard van Hemert, Project Manager Offshore, Ampyx
- 17.30 – 18.15 Drinks and poster session
- 18.15 – 18.45 Bus to dinner location
- 19.00 – 22.00 Dinner cruise
- 22.00 – 22.30 Bus back to conference location

**Monday September 25<sup>th</sup> – Plenary hall 2**

- 09.30 – 10.30 **No activities**

**Sub-Programme 2 – Aerodynamics**

Chair: Peter Eecen (SP coordinator)

Facilitator: Koen Hermans

- 10.30 – 11.00 *Status of the sub-programme*  
Peter Eecen, ECN  
*Special topic presentations: Unknowns and uncertainties in aerodynamics and aero-elastics with large impact on the design and operation of 125+m blades (250+m rotors)*
- 11.00 – 11.30 *Uncertainty quantification in the aeroservoelastic simulation of wind turbines*  
Carlo Bottasso, TU Munich
- 11.30 – 12.00 *Aerodynamics issues addressed in the EU proposal WindFusion*  
Carlos Simao Ferreira, TU Delft
- 12.00 – 13.00 *Aeroelasticity in AVATAR: An overview on the results and conclusions with some reference to design*  
Spyros Voutsinas, NTUA

- 13.00 – 14.00 Lunch and poster session

**Sub-Programme 8 – Cold Climate**

Chair: Ville Lehtomäki (SP coordinator)

Facilitator: Lesly Barton-Stam

- 14.00 – 14.20 *Cold climate Sub Program introduction*  
Ville Lehtomäki, VTT
- 14.20 – 14.40 *Weather modelling of icing*  
Neil Davis, DTU
- 14.40 – 15.00 *SHM, fatigue and composites in CC*  
Tanja Griessmann, ForWind/University of Hannover
- 15.00 – 15.20 *Low temperature in climate chamber*  
Pieter-Jan Jordaens, SIRRIS/OWI-Lab
- 15.20 – 15.40 *Icing Wind Tunnel testing of sensors*  
Timo Karlsson, VTT
- 15.40 – 16.00 *Industry workshop*

**Side events****Room 1 (1.06)****CL-Windcon event**

Chaired by Mikel Iribas

- 10.30 – 10.45 *CL-Windcon – Challenges for the new wind farm control paradigm*  
Mikel Iribas, CENER
- 10.45 – 11.00 *Developments in multi-fidelity wind flow modelling for wind farm control*  
T.B.D., University of Stuttgart
- 11.00 – 11.15 *Wind farm control technologies*  
Bart Doekemeijer, TU Delft
- 11.15 – 11.30 *CL-WINDCON wind tunnel testing; plan and status update*  
Carlo Bottasso, Technical University Munich, PoliMi

**IRPWind Open data and data management**

Chaired by Mattias Andersson

- 12.00 – 12.15 *Taxonomy and metadata for wind energy*  
Anna-Maria Sempreviva, DTU
- 12.15 – 12.30 *Requirements to a metadata search portal for wind energy*  
Pawel Gancarski, CENER
- 12.30 – 13.00 *Discussion with participants*

**14.00-16.30 NSON Event**

IWES will open the session followed by a presentation of the status of the ongoing NSON national projects - Philipp Härtel (IWES) and Nikolaos Ctutlulis (DTU).

Afterwards, the session will work out ideas and proposals for a continuation of the NSON initiative:

- towards an interconnected HVDC / AC grid to manage bulk of wind power in Europe
- coupling NSON and energy island initiative
- NSON and European grid planning projects

To work out next steps and a roadmap for the continuation of the NSON initiative, the workshop will give a good platform.

**Room 2 (2.09)****10.50-13.00 IRPWind WP5 – Mobility within EERA JP Wind**

Chaired by Claudia Calidonna

- 10.50 – 11.10 *The IRPWind mobility programme*  
Claudia Calidonna, CNR
- 11.10 – 11.30 *EERA Mobility Task force*  
Anna Maria Sempreviva, DTU
- 11.30 – 12.30 *Experiences from grantees*  
Several speakers
- 12.30 – 13.00 *Towards best mobility scheme – open discussion*

**Tuesday September 26<sup>th</sup> – Plenary hall 1****Plenary sessions**

09.00 – 09.30 *Energy Island*  
Wilfried Breuer, Executive Board Tennet

**Sub- Programme 3 – Structural design and materials**

Chair: Arno van Wingerde (SP coordinator)

Facilitator: Malene Pogager Jensen

09.30 – 10.00 *O&M after 2020*

Diego Allaix, TNO

10.00 – 10.30 *The future of blade and subcomponent testing*

Kim Branner, DTU

10.30 – 11.00 *Coffee break*

11.00 – 11.30 *A strong foundation for future windturbines*

Rasmus Eichstädt, ForWind

11.30 – 12.00 *“Generators for next-gen turbines”*

Henk Polinder, TU Delft

12.00 – 13.00 Lunch and poster session

**Sub-Programme 1 – Wind conditions**

Chair: Hans Ejsing Jørgensen (SP coordinator)

Facilitator: Alexander Vandenberghe

13.00 – 13.20 *Update on subprogramme*

Hans E. Jørgensen or Jake Badger, DTU

13.20 – 13.50 *The Perdigão experiment*

Jose Palma, University of Porto

13.50 – 14.20 *Measurement campaign and web portal*

Kristin Guldbrandsen Frøysa, CMR AS

14.20 – 14.50 *Low level jets of Fino 1 measurement and modelling*

Bjorn Witha, ForWind OL

14.50 – 15:10 *Taxonomy for Wind Europe*

T.B.C.

15.10 – 15.20 *Wrap up*

Hans E. Jørgensen or Jake Badger, DTU

**Plenary sessions**

15.30 – 16.00 *The Hywind Scotland project,*

Nenand Keseric, Head of Operations/Specialst Trading & Operations, Statoil

16.00 – 16.30 *The successes of the power curve working group (PCWG)*

Stathis Koutoulakos, Wind resource analyst, NUON/Vattenfall

16.30 – 17.00 *Closing of the conference*

Matthijs Soede, Research Programme Officer, European Commission

**Tuesday September 26<sup>th</sup> – Plenary hall 2**

09.00 – 09.30    **No activities**

**Sub- Programme 6 – Research facilities**

Chair: Antonio Ugarte (SP coordinator)

Facilitator: Martijn van Roermund

09.30 – 09.45    *Introduction and session program presentation*

Antonio Ugarte, CENER

09.45 – 10.15    *Joint Experiments in numbers*

Antonio Ugarte, CENER

10.15 – 10.45    *Achievements and due's*

Antonio Ugarte, CENER

10.45 – 11.15    Ongoing activities – Open Science

Antonio Ugarte, CENER

11.15 – 12.00    Beyond IRPWIND – activities and financing

Antonio Ugarte, CENER

12.00 – 13.00    Lunch and poster session

**Sub-Programme 4 – Wind integration**

Chair: Kurt Rohrig (SP coordinator)

Facilitator: Lesly Barton-Stam

13.00 – 13.20    Overview of SP activities

Kurt Rohrig, Fraunhofer IWES

13.20 – 13.40    HVDC & Offshore – latest R&D results

Olimpo Anaya Lara, UoS, Alev Akbulut, Fraunhofer IWES

13.40 – 14.00    System Service Provision through Optimal Control of Distributed WT's

Kaushik Das, DTU

14.00 – 14.20    Suitable overloading methods for FFC in MT-HVDC Grids

Nicolaos Cutululis, DTU

14.20 – 14.40    Forecasting, the latest results

Scott Otterson, Fraunhofer IWES, Bruno Schyska, ForWind

14.40 – 15.00    Market value of forecasts and bidding strategies

Hugo Algarvio, LNEG

15.00 – 15.20    Economic offshore grid structures and robustness to uncertainties

Harald Svendsen, SINTEF

15.20 – 15.30    Summary, wrap up, next events

Kurt Rohrig, Fraunhofer IWES

15.30 – 17.00    **No activities**



**Tuesday September 26<sup>th</sup> – Side events**

**Room 1 (1.06)**

9.30 – 12.00 TWG Offshore Wind (closed meeting)

13.00-15.30 **Operation and Maintenance workshop**

The workshop deals with O&M strategies for windfarms and seeks to gather specialists in that field with the explicit aim of setting up more long-term cooperation in that field, for instance in the form of a multi-national research project.

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