



Monthly TPWind Newsletter
July 2013

Contents

Section 1 – Funding opportunities.....	2
Section 2 – Secretariat’s news.....	3
Section 3 – Members’ news.....	4
Section 4 – Events	6

Produced for TPWind by the European Wind Energy Association

TPWind is supported by:



If you have any **feedback or questions** about the newsletter, or to **unsubscribe**, please contact Manuela Conconi (manuela.conconi@ewea.org, +32 2 2131856).

Past TPWind newsletters are available here: <http://www.windplatform.eu/documents/newsletters/>

Section 1 – Funding opportunities

European Metrology Research Programme (EMRP)

On 31 January, EURAMET e.V. launched a call within the EMRP (European Metrology Research Programme) addressing the topic areas Metrology for Energy, and Metrology for Environment:

- Stage 1 of the Call, call for Potential Research Topics (PRTs), is open from 31 January 2013 to 17 March 2013.
- Stage 2 of the Call, call for proposals for Joint Research Projects (JRPs) and associated Researcher Excellence Grants (REGs), is open from 18 June 2013 to 1 October 2013.

More information can be found on the call webpage: www.emrponline.eu/call2013

Section2 – Secretariat's news

Wind EII Team on the Commission's Communication on Energy Technologies and Innovation held on 18 June

The last Wind European Industrial Initiative (EII) Team meeting was held in Brussels on 18 June.

The Team is the main implementing mechanism of the European Wind Initiative (EWI): its goal is to identify the wind energy R&D funding recommendations that EU and national funding bodies should put into practice, following inputs coming from TPWind.

The implementation of the EWI will be influenced by the new European Commission's Communication on Energy Technologies and Innovation, published on 2 May 2013 and presented at the last SET-Plan Conference in Dublin (http://ec.europa.eu/energy/technology/strategy/strategy_en.htm). The Wind EII Team, therefore, focused its last meeting on the implications of the Communication.

The Commission suggests reinforcing the SET-Plan and introducing the following changes:

- Under the guidance of the SET-Plan Steering Group, an Integrated Roadmap should be developed by the end of 2013, to develop an energy system approach. This roadmap should consolidate the (up-dated) technology roadmaps of the SET-Plan and should cover the entire research and innovation chain. TPWind will certainly be involved in this exercise through the identification of relevant delegates.
- Member States and the Commission should develop by mid-2014 an Action Plan indicating coordinated and joint investments into technology development and innovation. This plan will have to be based on the Integrated Roadmap and will define how its implementation will be carried out.
- Reporting via the Strategic Energy Technologies Information System (SETIS), managed by the Joint Research Centre (JRC), should be strengthened.

At the last Wind EII Team meeting, TPWind welcomed the Communication and its attempt at reinforcing the implementation of the SET-Plan.

However, the Platform also pointed out that the EU should also maintain its focus on existing EIIs and provide them with dedicated funding.

Instead of trying to reorganise structures, the EU innovation policy should aim at implementing the Strategic Energy Technology Plan and prolonging it post-2020, and concentrating scarce resources on key energy technologies, such as wind. Dedicated funds for the SET-Plan and its EIIs would allow the various energy sectors (including wind) to prioritise their actions according to the developments in market and technology as well as available funds.

Moreover, the EU should focus on the development of technologies in which it has technology leadership and which will have a major role in the future European energy system, such as onshore and offshore wind. The Commission's energy Roadmap 2050 shows wind power will be the backbone of the future EU energy system.

Finally, the integrated roadmap should complement the individual technology roadmaps (such as the EWI), rather than replace them. Individual technologies do need individual technology roadmaps and implementation. Placing several technologies under one industrial initiative would create many coordination problems, would not lead to a better decision making process and would not enable technology development. It is also essential to continue prioritising individual technology development and innovation aspects of key technologies such as wind energy, as originally outlined by the SET Plan.

Moreover, TPWind stressed the importance of making sure that the Wind EII Team will remain an agile instrument, composed of EU Institutions, Member States, TPWind and EERA (European Energy Research Alliance) representatives. Including additional players would make the Team very difficult to manage and won't be necessary, since the wind energy supply chain is already properly represented within TPWind, which feeds the Wind EII Team with its R&D funding recommendations and inputs.

More information on the impact of the new Communication on the EWI and the SET-Plan will be provided in future issues of this newsletter.

Section 3 – Members' news

TWENTIES project outcomes: more wind power and cheaper electricity possible on existing EU networks

- - 10% more power can be brought online by measuring cable temperature in real time
- - 2% cut in electricity prices using wind turbines and other power sources as virtual power plants
- - 28% more wind power can be produced in storms using 'high wind ride through' control

The EU-funded TWENTIES project has found that Europe's transmission grid capacity can be used more efficiently, bringing far more power online. For example, by measuring power lines' temperatures in real time rather than theoretically, 10% more power can be put on the transmission and distribution grids.

Moreover, deploying TWENTIES technologies could reduce power prices in the German system by 2.2%, marginal electricity prices by up to 0.4% and cut carbon emissions by 3.5% by putting wind turbines together with other power generation in a 'virtual power plant'.

TWENTIES also showed that using 'high wind ride through' control meant turbines continued producing electricity at wind speeds of up to 32 meters per second rather than 25 - a 28% increase in output. It cut reserve requirements in half and reduced power system instability.

Other breakthroughs of the project - whose final publication was launched on 11 June at a conference in Brussels - included the successful testing of a DC circuit breaker prototype.

"Not only did this project take major technical steps forward, it also brought the wind industry and transmission system operators together in a successful collaboration, showing how wind energy can provide essential services to the grid", commented Vicente González López, TWENTIES technical manager, from Red Eléctrica de España.

"The results show modern technology and smart management can use renewables to improve grid operation and system security, and underline the value of investment in wind energy," said Jacopo Moccia from the European Wind Energy Association (EWEA), which was a project partner.

The TWENTIES project ('Transmission system operation with a large penetration of wind and other renewable electricity sources in electricity networks using innovative tools and integrated energy solutions') was coordinated by Red Eléctrica de España and financed by the European Commission's seventh Framework Programme.

Project partners were:

- Wind energy manufacturers: Gamesa Innovation and Technology, Siemens Wind Power
- Utilities: Dong Energy Power, Electricité de France, Iberdrola Renovables
- Grid operators and grid technology providers: 50Hertz Transmission, ABB, Alstom Grid, CORESO,
- Elia System Operator, ENERGINET.dk, Red Eléctrica de España (coordinator), RTE EDF TRANSPORT, Tennet
- Research institutes and universities: DTU Wind, Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung, ENEA - Ricerca sul Sistema Elettrico, ELECTA (Electrical Engineering Department), Institute for Energy and Environment - University of Strathclyde, Université de Liege, Instituto de Engenharia de Sistemas e Computadores de Porto, Katholieke Universiteit Leuven, Sintef Energy Research, Universidad Pontificia de Comillas, Université Libre de Bruxelles, University College Dublin
- Wind energy associations: EWEA

More information on project: www.twenties-project.eu

More information on TWENTIES final conference: www.twenties-project.eu/node/19

For more information contact:

Sarah Azau, EWEA

sarah.azau@ewea.org

+32 2 213 18 38

HT TTM looking for partners to develop of a climbing robot for inspecting wind turbines

Content of the project:

Across the world, the number of wind turbines is increasing exponentially. Many of them are taller than 50 meters and there is no way to inspect them without climbing, although this task does present risks.

In the USA alone, 60% of wind turbines cannot be inspected on time due to a shortage of inspectors. As a result, in the near future there will not be enough inspectors for even periodic maintenance. The goal of this project is to design a climbing robot which can climb on wind turbine towers and blades for inspection purposes.

Despite some recent academic studies on climbing robots for wind turbine inspection, none of these studies turned out to be an industrial product.

HT TTM is therefore looking for partner(s) whose working area is related to wind turbines such as building, assembling, inspecting and/or designing them. Firstly, to design the climbing robot correctly, detailed information about the wind turbine inspection process and standards are needed. Secondly, it would be beneficial to be supported by dedicated IT developers. Finally, climbing tests should be performed.

A description of HT TTM:

HT-TTM is the technology transfer interface of Hacettepe University, one of the leading public universities in Turkey with more than 3,400 researchers. HT-TTM has coordinated more than 250 joint research projects between university and industry, since 2009. HT-TTM is also active in the commercialization of research results, IP management, licensing and start-up services.

For this project, HT-TTM has been authorized by the university to conduct the research and the prototyping studies in one of the fully equipped laboratories of the Mechanical Engineering Department. Beside its two full-time Mechanical Engineers specialized in climbing robots and mechatronics (with MScs), HT-TTM has also one part-time assistant professor, cooperating with TUBITAK (The Scientific and Technological Research Council of Turkey). HT-TTM is therefore an experienced and reliable partner.

Contact Details: Sanem Yalcintas Gulbas, sanem.gulbas@hacettepe.edu.tr, sanemgulbas@gmail.com +(90) 312 297 62 78 and Ozgur Unver, ounver@hacettepe.edu.tr, ozgurunver@gmail.com, +(90) 530 687 0119

Deadline: 30 July 2013

Wind power study published by SBC Energy Institute (SEI)

The SBC Energy Institute (SEI) is a non-profit foundation created in 2011 at the initiative of Schlumberger Business Consulting (SBC). SEI recently launched 'Leading the energy transition', a series of studies on low-carbon energy technologies aiming at providing a comprehensive overview of their development status.

After Carbon Capture & Sequestration, a study on wind energy was published. It seeks to capture, synthesize and structure in a non-controversial way the existing knowledge on wind power and has been reviewed by the National Renewable Energy Laboratory (NREL) in the USA. It has also been validated by SEI's Board Members.

The study is publicly available and can be found on the following webpage: http://www.sbc.slb.com/SBCInstitute/Publications/~/_media/Files/SBC%20Energy%20Institute/SBC%20Energy%20Institute_Wind_Factbook_May%202013.ashx.

In this section of the newsletter articles produced directly by TPWind members are published, providing members with the opportunity to inform the Platform of their most recent achievements, plans, products, studies or R&D efforts.

Every month, two to four short articles (maximum 250 words) will be selected by the Executive Committee or the Secretariat and will be included in this section of the newsletter, along with the contact details of the person or company publishing the article.

The Secretariat invites all TPWind members who would like to publish an article in the next issue of this newsletter to contact Manuela Conconi and send her their contribution by 19 July at the latest (manuela.conconi@ewea.org; +32 2 2131856).

The Secretariat would like to remind all readers that this newsletter is sent to all TPWind members, to those included in the reserve lists of the Platform as well as to selected EC and EWEA representatives (approximately 500 people in total).

[Back to top](#)

Section 4 – Events

EWEA Technology Workshop:

Wind Power Forecasting: From R&D to commercial offering – a 360° view of present and future

3-4 December, 2013

Rotterdam, The Netherlands

Organised in association with the Anemos Consortium:



EWEA's second technology workshop in 2013, organised in response to requests from members, focuses on technical challenges related to wind power forecasting.

The workshop will cover topics including:

- The end users' requirements
- Numerical weather prediction models
- Wind power forecasting models and operational systems
- Integrating forecasts in business processes
- How important will forecasting be at 200 GW?

To be informed when the programme and registration are live email: techworkshops@ewea.org

www.ewea.org/workshops

Extra visibility for your organisation:

If you would like to present your company to the highly targeted audiences that the technology workshops attract contact Tim Robinson on techworkshops@ewea.org or tel: +32 2 213 1844 to discuss the exhibition & sponsorship opportunities available.

Leading industry figures chair conference at EWEA OFFSHORE 2013



19 – 21 November 2013

Frankfurt, Germany

This year, Henrik Poulsen, CEO of DONG Energy will act as Conference Chair at EWEA OFFSHORE 2013 (19- 21 November). The conference programme will go live shortly and will cover four tracks: Financing; Markets, Strategies & Planning; Industrialising the Supply Chain; Future Technologies. You can find out more about the Track Chairs on the website: <http://www.ewea.org/offshore2013/conference/track-chair-biographies/>

With an [extensive exhibition](#) and a host of networking events, participants will have many opportunities to network with their peers and build strategic partnerships in this fast growing industry.

Register before 12 July and save money: www.ewea.org/offshore2013

Speak in front of an international audience at EWEA 2014



10 – 13 March 2014

Barcelona, Spain

For more than three decades, EWEA has been supporting the wind energy industry and over the years the EWEA Annual Event has grown in both size and reputation. Now recognised by many as the leading pan-European wind energy event where the whole of the supply chain can meet, this event attracts more than 8,000 wind industry professionals from across the globe.

In 2014, the EWEA Annual Event (10-13 March 2014) will take place in sunny Barcelona in Spain, providing networking, knowledge exchange and the latest industry news in a beautiful location.

The exhibition will showcase a number of big wind turbine manufacturers: ACCIONA, ALSTOM, AREVA, ENERCON, GAMESA, GE, LEITWIND, NORDEX, REPOWER, SIEMENS, VESTAS. For more information about the exhibition: www.ewea.org/annual2014/exhibition

Call for abstracts

The conference programme will feature quality discussions and presentations on a wide range of topics. In addition to inviting speakers, we're gathering presentation proposals via a call for abstracts, which will close in mid-October. So, if you have an exciting new development to share, let us know about it by **submitting an abstract via the event website: www.ewea.org/annual2014**.

Industry for Industry

Support EWEA because we support you

Revenues from EWEA events and membership go right back into the industry, making EWEA's policy and lobbying activities possible. By attending this event you are directly strengthening the voice of the industry. Your money goes further than you think!

SUPPORT EWEA BECAUSE WE SUPPORT YOU

Revenues from EWEA events and membership go right back into the industry, making EWEA's policy and lobbying activities possible. By attending this event you are directly strengthening the voice of the industry.
Your money goes further than you think!



EWEA
THE EUROPEAN WIND ENERGY ASSOCIATION