



Monthly TPWind Newsletter
November 2012

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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://windplatform.eu/?id=138>.

Section 1 – Funding opportunities

7th Framework Programme

The 2012 FP7 Energy call was published on 10 July 2012. It provides funding for R&D projects relevant to wind energy:

Call: FP7-ENERGY-2013-1

Deadline: 28 November 2011

Topic ENERGY.2013.2.3.1: Advanced aerodynamic modelling design and testing for large rotor blades.

The main goal is to develop advanced rotor design models, using integral design tools in order to enable new and optimised designs for the next generation of large-scale wind turbines (up to 20MW). This includes research in aerodynamics, structural response and aerolasticity for full as well as segmented blade concepts.

Topic ENERGY.2013.2.3.2: Small to medium size wind turbines.

The projects are expected to deliver low cost, high performance, reliable, durable and safe systems. The research may involve but is not limited to the following areas of work:

- Innovative design, materials and aesthetic solutions;
- New control systems and methods for optimisation of operation and maintenance;
- Innovative solutions for transport, assembly and installation thereby minimising impact in the construction phase.

Call: FP7-ENERGY-2013-2

Deadline: 24 January 2013

Topic ENERGY.2013.7.2.3: Large-scale demonstration of innovative transmission system integration and operation solutions for interconnecting renewable electricity production.

This topic will primarily address the important technological challenges stemming from the large-scale penetration of renewable electricity production in the European transmission network, in particular the integration and transport of foreseen substantial renewable electricity production (including cross-national generation projects) far from consumption centres (e.g. offshore wind), possibly in combination with the interconnection of EU member states' transmission networks to enable increased balancing and trade of electricity. In addition, the operationalisation and integration of storage systems in high voltage networks, as part of the technological solutions to the mentioned challenges as well as in response to the needs of managing the time shift between production and consumption and stabilising the grid, can be addressed.

Call: FP7-ERANET-2013-RTD

Deadline: 28 February 2013

Topic ENERGY.2013.10.1.2: ERA-NET Plus – European wind resource assessment.

The aim of this ERA-NET Plus is to provide the wind energy sector with more detailed resource mapping, through the creation and publication of a new EU wind atlas based on the development of improved models for wind energy physics. It will also include a wind climate database.

Call: FP7-OCEAN-2013

Deadline: 7 February 2013

Topic OCEAN.2013.4: Innovative transport and deployment systems for the offshore wind energy sector.

Research activities under this topic shall address the following aspects:

- Development of innovative and cost-effective deployment strategies for large-scale turbines, including building and testing onshore;
- Elaboration of optimal logistical processes and on-land transport links for large offshore structures;
- Design of novel vessel types and equipment for installation, maintenance and decommissioning and validation at reduced scale;
- Development of safety procedures for installation, operation and maintenance activities, regarding both offshore wind structures and the vessels;
- Improved operations and maintenance including the enhanced role of remote condition monitoring and systems with reduced human intervention;
- Development of new business models at European level for large offshore systems based on integrated life-cycle approaches;

- Development of methods and tools to assess the field performance of offshore wind farms servicing vessels and for optimized service activities in terms of lead time and energy usage.

Call: FP7-ENERGY-2013-IRP

Deadline: 8 January 2013

Topic ENERGY.2013.10.1.4: Support to integrated research programmes between research performers on innovative research in support of the SET-Plan research and innovation agenda.

The objective of this topic is to support the operation and delivery of integrated research programmes that bring together and integrate on a European Scale, programmes of a critical mass of research performers from different Member States, Associated Countries, and if appropriate, other third countries, to advance the longer term research agenda of the SET Plan roadmaps in the fields of solar photovoltaic, wind energy, smart grids, electrochemical storage, bio-energy and Concentrated Solar Power (CSP). This topic represents a pilot exercise for a new way of working at EU level on longer-term research that could be further developed in the next European Framework Programme for Research and Innovation.

Section2 – Secretariat's news

Outcome of TPWind's 2nd Energy R&D Event

On 2 October 2012, TPWind held its second public Energy R&D Event in Brussels. Since 2011, TPWind organises open conferences to increase its visibility, enhance its profile and encourage an open debate on cross-sectoral R&D issues.

This is a major development for the Platform, which used to only organise events for its members from 2005 to 2010. The organisation of open events is possible thanks to the TPWind [Advisory Board](#), which was established in January 2011 and acts as a link between the Platform and relevant external stakeholders.

The first Energy R&D Event, in 2011, focused on grid integration and involved wind energy, grids and oil & gas players, as well as decision-makers at EU and national level.

This second event looked at synergies in the offshore sector. It attracted almost 200 attendants from wind power, ocean energy and oil & gas, who joined the conference together with relevant EU officials.

The conference took place in the afternoon of 2 October, while TPWind Working Group meetings, focusing on the development of the Platform's new [Strategic Research Agenda](#) (to be published in 2014), were held in the morning.

The day was closed by a networking cocktail.

The event's proceedings were uploaded on the TPWind website and are available [here](#).

Outcome of TPWind's 2nd Energy R&D Event

For more than 10 years now, the European Commission's [Future and Emerging Technologies](#) contributed to support research into many of the technologies that Europe needs to stay competitive and improve its citizens' quality of life.

As part of its effort to understand what the game-changing technologies of the next decades will be, the Commission would like to hear from scientists, researchers, innovators, entrepreneurs and members of civil society. In greater detail, it is interested in mapping the scientific and technological challenges faced by the EU in the next 20 years that cannot be addressed by existing technologies and roadmaps.

Should you wish to participate in this public consultation, please visit its website: http://cordis.europa.eu/fp7/ict/fet-proactive/fetconsult2012_en.html. The deadline for the submission of inputs is 30 November 2012.

Developing the new EWI 2013 – 2015 Implementation Plan and 2013 Work Programme

The last Wind European Industrial Initiative (EII) Team meeting was held in Brussels on 9 October and focused on the development of the new EWI 2013 – 2015 Implementation Plan and 2013 Work Programme.

TPWind representatives (from the Executive Committee and the Secretariat) presented the first version of both documents to EU Institutions, Member States and European Energy Research Alliance (EERA) representatives.

The new EWI Implementation Plan is based on the work done by TPWind Working Groups over the past 18 months.

It outlines the R&D priorities to be tackled over the next three years in order to ensure a proper implementation of the EWI. It also indicates the EWI's budget for the 2013 – 2015 period as well as relevant key performance indicators. Moreover, it includes two strategic annexes:

- The TPWind-EERA Memorandum of Understanding (MoU) signed in August 2012 and negotiated over the past 18 months. This document clarifies the role of both organisations in the implementation of the EWI, which will continue to be led by TPWind, and the EERA's Joint Programme on wind energy, which will be managed by EERA.
- The official distribution of grid R&D tasks between the EWI and the European Electricity Grid Initiative (EEGI), negotiated by TPWind representatives over the past 18 months. From now on, the EWI will focus on wind-specific issues only (e.g. short-term wind forecasts, ancillary services, virtual power plants, connection of turbines and wind farms to the grid), while the EEGI will deal with architecture and

management of today's and future EU grids. As a result, potential overlaps will be avoided and the overall effectiveness of the SET-Plan will be increased.

Once finalised by the Wind EII Team, the EWI 2013 – 2015 Implementation Plan will replace the current 2010 – 2012 one and will be published by the European Commission on the [SET-Plan website](#).

As for the EWI 2013 Work Programme, it will outline the Wind EII Team's 2013 funding recommendations for EU Institutions and Member States. Similarly to previous annual Work Programmes, it will create the conditions for a smooth funding of the EWI at both European and national level.

Once approved by the Wind EII Team, the EWI 2013 Work Programme will be circulated to TPWind members.

Both EWI documents should be ready before the end of 2012: more information will be provided in future issues of this newsletter.

Section 3 – Members' news

The European Union has passed the milestone of 100 gigawatt (GW) of installed wind power capacity, according to the European Wind Energy Association (EWEA)

100 GW of wind power can generate electricity over a year to meet the total consumption of 57 million households, equivalent to the power production of 39 nuclear power plants.

It took the European wind energy sector some twenty years to get the first 10 GW grid connected. It only needed 13 years to add an additional 90 GW. Half of the total European wind power capacity has been installed over the past six years.

"It would require burning 72 million tonnes of coal annually in coal fired power plants to match Europe's annual wind energy production. Loading that amount of coal on trains would require 750,000 wagons with a combined length of 11,500 kilometres - the distance from Brussels to Buenos Aires, Argentina," said Christian Kjaer, CEO of EWEA.

"Despite only utilising a tiny fraction of Europe's vast domestic wind energy resources, wind power is having a substantial impact on Europe's energy security and environment, and benefits us hugely in creating green jobs and technology exports", said Kjaer.

Recent wind turbine installations contributing to the 100 GW milestone include:

- Anholt offshore wind farm, 400 MW developed by DONG off the coast of Denmark;
- Linowo, 48 MW developed by EDF Energies Nouvelles Polska in Poland;
- Ausumgaard, 12 MW developed by a private landowner in Denmark (west Jutland);
- Akoumia, 7.2 MW developed by Greek power company PPCR on the island of Crete.

100 GW of wind power can produce the same amount of electricity over a year as:

- 62 coal power plants, or
- 39 nuclear power plants, or
- 52 gas power plants.

To produce the same amount of electricity as 100 GW of wind turbines in a year you would have to:

- Mine, transport and burn 72 million tonnes of coal, at a cost of €4,983 million, and emit 219.5 Mt of CO₂, or
- Extract, transport and burn 42.4 million cubic meters of gas, at a cost of €7,537 million, and emit 97.8 Mt of CO₂.

For more information contact:

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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](mailto:manuela.conconi@ewea.org) and send her their contribution by 23 November 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).

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Section 4 – Events

[4th Annual Wind Energy in Bulgaria Workshop: "Getting back on track"](#)

20 November 2012 - Sofia, Bulgaria

[Programme and registration](#)

Organised by: EWEA in association with: Bulgarian Wind Energy Association (BGWEA), Bulgarian Association of Producers of Ecological Energy (APEE)

[Third EWEA Technology Workshop: Wind Turbine Noise: From Source to Receiver](#)

11-12 December 2012 - Oxford, UK

[Programme:](#)

The workshop will take place over one and a half days with five sessions focusing on:

- Wind Turbine Noise at Source – The Impact of the Design
- Wind Farm Design – Being a Good Neighbour
- Real-World Noise Measurements – Emission and Immission
- National Guidelines and Human Perception of Noise
- Noise Issues Offshore

[See who has already registered via the attendee look-up](#)

[Register online](#)

Registration fees are half those charged by the organisers of comparable commercial events!
Significant reductions for EWEA members, NGOs, academics, government representatives and students

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Announcement - Technology Workshops in 2013: Resource Assessment and Wind Forecasting

EWEA's series of workshops on technology issues critical to members continues in 2013 with a **second resource assessment workshop**, as requested by participants at the [May 2011 edition](#). It will take place in the second quarter of the year: date, venue and call for abstracts to be announced by end 2012.

[Keep me updated about the resource assessment workshop](#)

This will be followed by a workshop dedicated to **wind forecasting**, another topic requested by EWEA members. This will take place in the fourth quarter of 2013 and is being organised in association with the ANEMOS Consortium. Date and venue to be announced by end 2012.

[Keep me updated about the wind forecasting workshop](#)

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For questions about EWEA workshops and to discuss extra visibility for your organisation contact Tim Robinson: techworkshops@ewea.org or tel: +32 2 213 1844

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EWEA 2013 Annual Event, 4 – 7 February 2013 in Vienna, Austria

Taking place at the crossroads of Europe's developed wind energy markets and countries in which the potential is growing; such a gathering provides exciting collaborative opportunities. This 4-day conference and exhibition brings together the whole of the wind industry supply chain to network, share knowledge and do business.

Special offer: For two weeks EWEA is offering full access to the exhibition for no cost at all when you register online. This offer ends on 14 October 2012.

[Full details and registration](#)

EWEA OFFSHORE 2013, 19 – 21 November 2013 in Frankfurt, Germany

The [EWEA OFFSHORE 2013](#) conference and exhibition will build on the success of the 2011 edition, which attracted more than 480 exhibitors and over 8,200 participants. EWEA OFFSHORE 2013 will take place in Frankfurt - Europe's financial capital and truly international business location. This unique international platform provides the ideal location to do business with key offshore wind industry players from over 40 different countries.

Exhibition sales are now open and sponsorship opportunities are available. [Read further information](#) or email the sales team: sales@ewea.org

EWEA 2014 Annual Event, 10 – 13 March 2014 in Barcelona, Spain

The [EWEA 2014 Annual Event](#) will take place in the modern venue of Fira de Barcelona Gran Via, offering 14,000m2 of exhibition space in a location which is easy to get to and only a short distance from both Barcelona's El Prat international airport (7 km) and the city centre itself.

Exhibition sales are now open. [Read more information and view exhibition floorplans](#) or email the sales team: sales@ewea.org

Meet EWEA Eolica Expo & Husum 2012

In September EWEA's team will be attending Eolica Expo and Husum 2012. If you want to meet us at either event to discuss your membership services and your involvement in future EWEA activities simply email membership@ewea.org

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!

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EWEA
THE EUROPEAN WIND ENERGY ASSOCIATION