



Monthly TPWind Newsletter
March 2012

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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 2131813).

Past TPWind newsletters are available here: <http://windplatform.eu/?id=138>.

Section 1 – Funding opportunities

Intelligent Energy Europe

Call deadline: 8 May 2012 (except for the BUILD UP Skills Initiative which has different deadlines: please [click here](#) for more details).

The 2012 IEE call for proposals of the intelligent Energy Europe programme (IEE) was launched on 20 December 2011 and will close on 8 May 2012.

The objective of the Intelligent Energy - Europe II Programme (“IEE II”) is to contribute to secure, sustainable and competitively priced energy for Europe, by:

- Fostering energy efficiency and the rational use of energy resources;
- Promoting new and renewable energy sources and supporting energy diversification;
- Promoting energy efficiency and the use of new and renewable energy sources in transport.

The Programme in particular contributes to the EU Energy 2020 Strategy, and facilitates the implementation of the EU action plan for energy efficiency and of the Directive on the promotion of the use of energy from renewable sources.

The IEE programme is managed by the Executive Agency for Competitiveness and Innovation (EACI). The indicative total budget available for this call is about EUR 67 million. Accordingly, the amount granted will be up to 75% of the total eligible costs (except for the projects funded under the Build Up Skills Initiative). It is expected that this call for proposals will result in about 60 projects being supported.

The IEE programme covers action in the following fields:

Energy efficiency and rational use of energy resources (SAVE strand). In 2012 SAVE will cover the three following key actions:

- Industrial excellence in energy: for actions to increase the competitiveness of European small and medium size enterprises (SME's) by empowering them to save energy.
- Consumer behaviour: for actions to help transform the market towards more energy-efficient products and systems, and change the behaviour of consumers.
- Energy Services: for actions to increase market transparency and confidence for all market actors, to develop the energy services market for small consumers and to empower households to ensure the effectiveness of smart meters.

New and renewable energy resources (ALTENER strand), including:

- Electricity from renewable energy sources (RES-e): for actions to increase the share of renewable electricity in Europe's final energy consumption.
- Bioenergy: for actions promoting increased production and use of biomass, bio-liquids and biogas in energy markets.

Energy in transport (STEER strand). In 2012 STEER will cover the two following key actions:

- Energy-efficient transport: for actions to reduce the demand for travel by car and transport by road freight, and to shift travel and transport to more efficient transport modes.
- Clean and energy-efficient vehicles: for actions to help transform the market towards more energy-efficient vehicles, supporting and complementing the recent legislation in this area.

Integrated initiatives: action combining several of the specific fields (SAVE, ALTENER and STEER) or relating to certain EU priorities may include:

- Integrating energy efficiency and renewable energy sources in several sectors of the economy;
- Combining various instruments, tools and actors within the same action or project

More information on the specific actions cover by the programme is available here:

http://ec.europa.eu/energy/intelligent/files/call_for_proposals/call_2012_en.pdf

7th Framework Programme for Research and Development

The new FP7 Energy calls for proposals (belonging to the 2012 Work Programme) were published on 20 July, 2011. The topics outlined below are relevant to wind energy operators.

For a full description of these topics and more information on the application procedure, please visit the following web-page: http://ec.europa.eu/research/participants/portal/page/fp7_calls.

Call deadline: 8 March 2012

Topic ENERGY.2012.2.3.2: Demonstration of innovative designs to reduce fatigue loads and improve reliability of multi-MW turbines

Contents/scope: A strategic objective of the industrial initiative of the SET Plan on wind energy is to reduce cost of energy by improving reliability and availability of wind turbines and their components. Optimizing operation and maintenance is an additional strategy for achieving this objective. Both increasing reliability and optimizing operation and maintenance have a direct impact on the availability of wind turbines and thus reduce costs and increases energy output.

This strategy contributes considerably to making wind energy fully competitive. This topic focuses on the first strategy: improving reliability by incorporating this concept in the design process of the entire wind turbine system. The main goal of the project will be to upgrade existing reliability engineering methodologies to large wind turbine systems and demonstrate their effects during operation. The projects could address different types of climatic conditions and geographical locations in order to demonstrate improved reliability and availability under such operating conditions.

The application of reliability engineering methods and their validation may be applied to new rotor concepts and other turbine components, such as drive train components, designed for very large wind turbines (in the 2 to 6 MW range), in particular for offshore applications.

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Section 2 – Secretariat news

TPWind 8th General Assembly

6 March 2012 - Brussels, Belgium

The **8th General Assembly** will take place on **Tuesday, 6 March 2012** at MCE (rue de l'Aqueduc 118, Brussels). It will be a key event for TPWind, as it will be the first since the selection of its new Steering Committee members.

As always TPWind members will have the opportunity to hold Working Group meetings where future projects and activities of the Platform will be discussed. Specifically, TPWind members will focus on the implementation of the European Wind Initiative (EWI) over the 2013 – 2015 period.

Furthermore, a plenary session will be organised to provide TPWind members with a comprehensive update on the Platform's plans and EU wind energy policies.

The 8th General Assembly will include a networking cocktail.

For more information on the event, which is **for TPWind members only**, please contact Manuela Conconi (manuela.conconi@ewea.org; +32 2 2131813).

Section 3 – Members' news

“Supporting Services for the Wind Power Industry”

The European Space Agency (ESA) is pleased to announce the preparation of a tender for a feasibility study “Supporting Services for the Wind Power Industry” in the frame of ESA's ‘Integrated Applications Promotion’ (IAP) programme (ARTES 20).

The proposed feasibility study will assess the technical feasibility and the commercial viability of integrated services combining space assets (such as Earth Observation, Satellite Communications, Satellite Navigation) with existing terrestrial solutions to support the wind power industry. The areas of investigation will be:

- a) Wind farm planning: There are large areas on ground and on the sea where no wind measurements are available and historical data are demanded, for example, to ensure investments on a specific wind power project.
- b) Wind power operations and maintenance: In general, the improvement of wind forecasting is a need expressed by a number of stakeholders for different reasons. These include, amongst others, electricity system management; electricity market participation; wind farm operations including prediction of threats from extreme events; and identification of weather windows for wind farm construction and maintenance.

If the feasibility study concludes successfully – i.e. useful, sustainable services are identified – it is ESA's intention to proceed with a demonstration project developing the pre-operational set-up of such services and demonstrating their capabilities. ESA is continuously exploring opportunities to support the energy industry by exploiting and making accessible the capabilities of space assets.

ESA encourages interested parties to respond to this ITT. Further information can be obtained on the ESA [EMITS website](http://emits.esa.int) (<http://emits.esa.int>), with the menu "Intended Invitations to Tender" under the reference number 11.1AA.17. The ITT is planned to be issued end Q1/2012.

For questions regarding the ITT, please contact:

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To propose new ideas to be evaluated under ESA's awareness activities, please contact:

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Wind energy: over 21% of all new power capacity in 2011

In 2011, 9,616 MW of wind energy capacity was installed in the EU, making a total of 93,957 MW - enough to supply 6.3% of the EU's electricity, according to figures published on 6 February, by the European Wind Energy Association (EWEA).

Representing 21.4% of new power capacity, wind energy installations in 2011 were very similar to the previous year's 9,648 MW. The wind industry has had an average annual growth of 15.6% over the last 17 years (1995-2011).

"Despite the economic crisis gripping Europe, the wind industry is still installing solid levels of new capacity", commented Justin Wilkes, Policy Director of EWEA.

"But to achieve the EU's long-term targets we need strong growth again in future years. It is critical to send positive signals to investors by European governments maintaining stable policies to support renewables and for the

European Union to commit to put in place a binding renewable energy target for 2030."

Growth in onshore installations in Germany and Sweden, and offshore in the UK - together with continuing strong performances from some emerging onshore markets such as Romania - offset a fall in installations in mature markets such as France and Spain. Overall, Germany remains the EU country with the largest installed capacity, followed by Spain, France, Italy and the UK.

Altogether, more renewable power capacity was installed during 2011 than any other year. Renewables accounted for 71.3% of new installations: 32,043 MW - up 37.7% on 2010 installations. Both fuel oil and nuclear power saw a drop last year, with more capacity decommissioned than installed.

Overall last year, the EU's total installed power capacity increased by 35,468 MW net to 895,878 MW, with wind power increasing its share of installed capacity to 10.5%, and renewable capacity increasing its share to 31.1%.

More on the 2011 wind energy statistics [here](#).

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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 and send him their contribution by 20 March at the latest (manuela.conconi@ewea.org ; +32 2 2131813).

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

EWEA 2012 Annual Event

16 – 19 April 2012 - Copenhagen, Denmark

The EWEA Annual Event - Europe's **premier wind energy event** - will focus on innovation this year. The event provides a comprehensive conference programme and exhibition attracting over 10,000 professionals. It offers a complete overview of the industry and a place where the industry's brightest minds meet to exchange the latest knowledge, forge meaningful business relationships and create connections with influential people from Europe and beyond.

Innovating today, shaping tomorrow

For the industry to continue its growth, it is important to remain innovative in all aspects of our activities – from the products we design to the political frameworks and business models that shape our future direction.

More than ever, we are faced with challenges on major fronts: the economic downturn, competition from emerging non-EU markets, shifting policy environments, lack of funding, and other emerging renewable technologies.

At EWEA 2012, track chairs aim to better equip delegates for the challenges of the future by delivering a programme that provides new and different perspectives on innovation.

A comprehensive conference programme

Six conference tracks will provide conference delegates with a superior learning experience by providing them with over thirty-five informative sessions delivered by expert speakers.

Policies, markets and programmes

[Chair: Jan Serup Hylleberg, Danish Wind Industry Association]

Find out how to decrease the cost and increase the value of wind in relation to competing technologies as well as how to improve cooperation and planning across the EU.

Financing

[Chair: Michael Liebreich, Bloomberg New Energy Finance]

Oriented towards those who are concerned with funding the development of their company's projects, this track provides a comprehensive toolbox to help you realise your project aspirations.

Hardware technology

[Chair: Henning Kruse, Chairman of TPWind]

Get an insight into the decade beyond 2020, where reliable, intelligent forecasts and predictions about the future direction of wind technology will be just as important as upscaling.

Resource assessment

[Chair: Jos Beurskens, ECN Wind Energy]

To ensure an economically feasible project, precise mapping and analysis of the wind resource is crucial for turbine manufacturers and project developers. Find out how to make forecasting and measurement more accurate and efficient.

Integration in electricity systems and markets

[Chair: Frans van Hulle, European Wind Energy Association]

Get an insight into what electricity networks could look like in the future, explore the capabilities of wind plants and find out about new concepts that support large-scale uptake of supply-driven renewables.

Science and research

[Chair: Peter Tavner, Emeritus Professor, Durham University]

Geared towards researchers and engineers thirsty for knowledge. Keep up-to-date with the latest research and analysis, as well as the development and improvement of design tools.

A committee of experts has selected the freshest and most cutting-edge ideas for the conference programme. The preliminary conference programme can already be consulted online:

<http://events.ewea.org/annual2012/conference/programme/>

The programme also includes key side-events and workshops:

1. TPWind - Funding wind energy R&D: achievements and challenges

17 April 2012, 11.00 – 12.30

This event will provide participants with an update on the state-of-play in terms of EU funding for wind power R&D and on the EWI's main achievements and the funding challenges ahead. These issues will be discussed by a selected group of panelists. Participants will be actively invited to contribute with questions and ideas on the future of EU support for wind energy.

[Programme and registration](#)

2. Twenties - Unveiling the future energy system - full scale demonstrations to reach 2020 targets

17 April 2012, 13.00 – 17.30

TWENTIES ('large scale integration of wind power', www.twenties-project.eu) is one of the largest renewable energy projects ever funded by the European Commission. TWENTIES uses full scale demonstrations to examine barriers to accommodating the amount of wind energy into the electricity grid required to reach the **EU's 2020 targets**.

This event will update participants on the results of real tests of wind farm/ VPP participation in the market, considerations for the design and control of meshed DG grids, storm management, improving grid flexibility, licensing for interconnectors, as well as the economic assessment of these solutions.

[Programme and registration](#)

3. European Energy Research Alliance- Development of design tools for offshore wind farm clusters

17 April 2012, 16.00 – 17.30

The EERA in collaboration with industry partners proposes an integrated and validated design tool combining the state-of-the-art wake, yield and electrical models available in the consortium, as a plug-in architecture with possibility for third party models. The concept of the project is to combine this expertise in a common integrated software tool for the optimised design of offshore wind farms and wind farm clusters acting as wind power plants.

This event will provide participants with an introduction on this new and challenging project, and invite to a discussion of usage scenarios and collaboration possibilities.

[Programme and registration](#)

Register for EWEA 2012 at discounted rates

EWEA members, academic/ NGO's/ governmental organisations can benefit from a reduced rate when registering for EWEA 2012. To register online and for more details on how to take advantage of this offer:

<http://events.ewea.org/annual2012/registration/>

Reserve your hotel room for EWEA 2012 at special rates

EWEA has secured special rates for attendees at many hotels near to the event venue in Copenhagen. For more information and to take advantage of these rates: <http://events.ewea.org/annual2012/practical-information/hotel-booking/>

EWEA Workshops in 2012

In 2012 EWEA will continue to organise focused events on issues of strategic importance to members and the industry as a whole. EWEA is planning workshops in Hungary, Bulgaria, Estonia and Turkey in the context of its fourth consecutive series of conferences in **emerging wind markets** organised in co-operation with the national associations.

EWEA will continue its highly successful series of **policy debates in Brussels**, attracting key EU decision makers and making wind energy an integral part of energy discussions at EU level.

EWEA will hold a **second technology workshop** for specialists in the second quarter of 2012, addressing the assessment of operational wind farms. The date, place and focus will be announced early in 2012. This event will build on the success of the first technology workshop on pre-construction wind resource assessment that was held in May 2011. A follow-up workshop on wind resource assessment is planned for 2013.

The EWEA Annual Event will again be preceded by the [‘Wind Energy – The Facts’ pre-event seminar](#) in Copenhagen, Denmark on 15 April 2012.

In addition, EWEA will hold events on European projects including **Twenties**, **TPWind** and **SEANERGY 2020**.

For the latest information on these events see: www.ewea.org/events

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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