



Monthly TPWind Newsletter
April 2011

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Produced for TPWind by the European Wind Energy Association

If you have any **feedback or questions** about the newsletter, or to **unsubscribe**, please contact Filippo Gagliardi (filippo.gagliardi@ewea.org, +32 2 2131813).

Section 1 – Funding opportunities

7th Framework Programme for Research and Development

More information on FP7 calls is available here: <http://cordis.europa.eu/fp7/dc/index.cfm>.

Call deadline: 7 April 2011

Topic ENERGY.2011.2.3-1: Demonstration of innovative offshore wind electricity generation structure
Open in call: FP7-ENERGY-2011-2

Contents/scope: A strategic objective of the industrial initiative of the SET Plan on wind energy is to enable the exploitation of offshore resources, including in deep water environments, and to facilitate the grid integration of wind power. Besides the development of the new generation of highly reliable large-scale turbines, demonstration of cost competitive concepts for floating structures distant from shore in deep water (> 60 meters) is needed to extend the exploitation of deep offshore wind resources and to bring costs for far offshore wind electricity generation down to a competitive level.

Deep offshore floating structures hosting multi-MW wind energy converters shall be demonstrated. The projects shall address integrated concepts including large cost-efficient floating structures, multi-MW wind energy converters and related equipment designed for wind farm management and for compliance with easy connectivity to the offshore grid.

Demonstration should include access systems and safety aspects, logistics, operation and maintenance issues, installation methods and concepts, environmental impacts, reliability at wind turbine and wind farm level, and cost analysis based on market projections.

This topic contributes to realising the Implementation Plan (2010-2012) and the Technology Roadmap (2010-2020) of the European Wind Industrial Initiative and the resulting project(s) will form part of the EII.

Topic ENERGY.2011.7.3-2: Storage and balancing variable electricity supply and demand
Open in call: FP7-ENERGY-2011-2

Contents/scope: Flexible, reliable and low-cost energy balancing continues to be a barrier to deployment of most renewable energy technologies. The projects shall demonstrate advanced and cost-effective systems which would bridge the source availability and the power demand.

The projects should be based on storage devices, flexible generation from renewable sources, ICT tools or grid management systems, alone or in combination. The innovative aspects may be on the technology, the tools or system integration. The projects should improve the energy management addressing several functions to broaden the use of renewable power generation plants also in terms of power quality (security, improved grid interface, etc.).

The projects should also assess environmental aspects in relation to their proposed solutions. Storage systems (ideal range of GWh) may address large scale centralised renewable energy systems (e.g. large wind parks, etc.) or larger systems based on distributed energy supply coupled with many smaller storage systems.

The projects will notably contribute to better transmission and control large amount of powers over long distances, generated from various sources (especially the variable renewable energy sources), with new monitoring and control systems in order to ensure power quality and voltage.

This topic contributes to realising the Implementation Plan (2010-2012) and the Technology Roadmap (2010-2020) of the European Electricity Grids Industrial Initiative and the resulting project(s) will form part of the EII.

Intelligent Energy Europe

Call deadline: 12 May 2011 (except for “Building Workforce Training” and “Qualification Initiative” actions, whose deadline is 15 June 2011)

The 2011 call for proposals of the Intelligent Energy Europe Programme (IEE) was published in January 2011 and will close on 15 June 2011.

The objective of IEE 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 to support 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 covers action in the following fields:

- Energy efficiency and rational use of energy resources (SAVE strand);
- New and renewable energy resources (ALTENER strand);
- Energy in transport (STEER strand) to promote energy efficiency and the use of new and renewable energies;
- Integrated initiatives combining several of the specific fields referred to SAVE, ALTENER and STEER or where related to certain EU priorities.

The total budget of this call for proposals is € 67 m.

It should be noted that from this year onwards ALTENER, which is the most relevant strand of the programme for wind energy operators, will focus on actions contributing to the implementation of the new RES Directive and on accelerating the growth of renewable energy markets to meet the EU 2020 target.

In greater details, ALTENER aims at:

- Promoting new and renewable energy sources for centralised and decentralised production of electricity, heat and cooling, and thus supporting the diversification of energy sources;
- Integrating new and renewable energy sources into the local environment and the energy systems;
- Supporting the preparation and application of legislative measures.

In 2011, ALTENER projects should focus on one or more of the following priorities:

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

More information is available here: http://ec.europa.eu/energy/intelligent/call_for_proposals/index_en.htm.

European Metrology Research Programme (EMRP)

Call deadline: 20 March 2011 (for PRTs) and 3 October 2011 (for JRPs)

EURAMET e.V. has launched a Call within the EMRP (European Metrology Research Programme) addressing the topic areas 'Metrology for Health', 'SI Broader Scope' and 'Metrology for New Technologies' on 4 February 2011.

Stage 1 of the Call for proposals for Potential metrology Research Topics (PRTs) is open from 4 February 2011 to 20 March 2011.

Stage 2 of the Call for proposals for Joint Research Projects (JRPs) and associated EMRP Researcher Grants is open from 20 June 2011 to 3 October 2011.

The JRPs are supported by a number of EMRP Researcher Grants (see details below). Whilst the EMRP is executed primarily by the national metrology institutes and designated institutes of the participating countries, all interested parties are invited to submit potential topics in Stage 1. Opportunities for wider participation also exist at later stages.

The Call encompasses a two-stage process and includes three grant schemes:

A. The core activity is multi-partner trans-national projects.

Stage 1 – Call for PRTs:

- Identifying the challenge, problem or opportunity for potential research topics;
- Offering the chance for all stakeholders from any country worldwide to influence the R&D undertaken by the European metrology community.

Stage 2 – Call for JRPs:

- The basis will be provided by the highest priority ideas for research from Stage 1, accompanied by a EURAMET-owned supporting document;
- A competitive European-wide independently refereed evaluation will result in a list of collaborative JRPs, executed primarily by the NMIs and DIs of the participating countries;
- Possibility to include proposals for Researcher Excellence Grants within the JRP proposals;
- Opportunity for organisations to participate with their own resources;
- Opportunity for organisations with an interest in the research area to collaborate with their own resources.

B. The JRPs are accompanied by the following EMRP Researcher Grant schemes, which are available:

At Stage 2:

- Researcher Excellence Grants (REG) – provided to increase the number of organisations with capacities closely related to metrology and to open metrology research to the best science. They will be made available to eligible European organisations and/or individuals capable of making a substantial contribution to the research activities of the JRP, and must form an integral part of the JRP.

At Stage 3:

- Researcher Excellence Grants (REG) – provided to increase the number of organisations with capacities closely related to metrology and to open metrology research to the best science. They will be made available to eligible European organisations and/or individuals capable of making a substantial contribution to the research activities of the JRP. They allow individuals capable of scientific excellence to add additional value to the research objectives of the JRP.
- Researcher Mobility Grants (RMG) – provided to develop the capability of the European metrology researcher community through mobility. They will be made available to eligible researchers.

C. In addition, an Open Call for Early-Stage Researcher Mobility Grants (ESRMG):

- Provided to ensure sustainability in the cooperation between NMIs and DIs of the participating States in the EMRP and to prepare the next generation of metrology researchers. They will be made available to eligible researchers.

Details can be found on the dedicated call webpage: www.emrponline.eu/call2011

Research Fund for Coal and Steel (RFCS)

Call deadline: 15 September 2011

The Research Fund for Coal and Steel (RFCS) finances research projects in the areas of coal and steel. Its annual budget is about € 60 m, of which 72,8% is earmarked for steel-related and 27,2% for coal-related projects.

The RFCS has its origin in the former European Coal and Steel Community (ECSC). The ECSC is seen as the foundation of today's European Union. Established by the Treaty of Paris, it expired after 50 years in 2002.

The European Commission manages its residual assets and uses the interests generated yearly to finance research projects in the areas of coal and steel.

These projects cover several areas including steel applications within the renewable energy sector.

The main features of the RFCS scheme are the following:

- NO BUDGET LIMIT FOR PROJECTS - Typically in the range of 1-2 million €
- ORGANISATIONS WORLDWIDE CAN PARTICIPATE - Only consortium partners from the EU receive funding.
- ANY CONSORTIUM SIZE IS WELCOME
- NO SET PROJECT DURATION - Typical research projects last 3-4 years.
- USE THE EXPERIENCE OF PREVIOUS PROJECTS - Programme synopsis are available on http://cordis.europa.eu/coal-steel-rtd/synopsis_en.html
- GET FULL INFORMATION ON THE PROGRAMME - Please refer to the Information Packages (Infopacks) available on http://cordis.europa.eu/coal-steel-rtd/submit_en.html

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Section 2 – Secretariat news

Outcomes of TPWind 7th General Assembly

The TPWind 7th General Assembly (GA) took place on 3 March, 2011, in Brussels.

The GA, the first one since the selection of new TPWind members, was entitled “Renovating the Platform” and focused on the establishment of new Working Groups and on the implementation of the European Wind Initiative (EWI).

The Assembly was opened by a plenary session, in which TPWind and European Commission representatives provided participants with:

- A comprehensive overview of the role, objectives and activities of the European Wind Energy Technology Platform;
- An update on the implementation of the EWI;
- A presentation of the goals of the Assembly.

Following this session, Working Group meetings began. TPWind members focused on:

- The election of WG Co-Chairs and Vice-Chairs;
- The development of WGs’ 2011 Work Plans, outlining the goals of TPWind members for this year;
- The development of the new 2013 – 2015 EWI Implementation Plan, which will replace the existing one covering the 2010 – 2012 period and published in June 2010.

The Assembly was closed by a second plenary session, where WG Chairs provided participants with an overview of the results of Working Groups’ meetings, and by a networking cocktail.

The Secretariat is currently in the process of reviewing all input received from TPWind members in order to ensure a proper management of new Working Groups and a proper implementation of the EWI.

The Secretariat will soon circulate and publish on the TPWind website all the proceedings of the 7th GA, including names of elected WG Co-Chairs and Vice-Chairs.

The next GA (i.e. the 8th one) will take place in Brussels in March or April 2012. However, Working Groups will meet again in 2011, in combination with the first TPWind event open to the public. This conference will focus on R&D issues shared by wind energy and other operators and will most probably take place in Brussels in October 2011: more information will be provided in the next issues of this newsletter.

Wind energy and the environment – new information tool launched

A new tool has been recently launched for EWEA members bringing together all published studies and reports on wind energy and the environment. Known as the ‘Environmental Impact Information Tool’ (EIIT), it is accessible on EWEA’s website in the members’ lounge section.

The aim of the tool is to enable EWEA members to answer concerns about wind energy and its impacts on the environment. To this purpose, it provides up-to-date scientific information on the potential impacts of wind energy on biodiversity, with possible mitigation and compensation measures.

A simple ‘search’ function will allow the relevant documentation to be found as quickly and efficiently as possible.

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Section 3 – Members' news

New legislation needed now to meet EU 2050 climate commitment

The EU must put extra legislation in place in the lifetime of the current European Commission if it is to meet its commitment to cut domestic carbon emissions by 80-95% by 2050, warned the European Wind Energy Association. The European Commission recently released its 'Roadmap to a low carbon society' which outlined the need for a "fully decarbonised power sector" by 2050. But the need for action is much more immediate than EU leaders realise.

Since the transport and agriculture sectors will still emit carbon in 2050, the power sector must be at zero carbon by then, and this requires immediate action, said Christian Kjaer CEO of the European Wind Energy Association (EWEA). His comments came after a debate with EU Climate Action Commissioner Connie Hedegaard during the EWEA 2011 Annual Event in Brussels.

"Because fossil fuel power plants run for 30 to 45 years, investment decisions taken today will determine our energy mix and carbon emissions in 2050", he said. "This means that to achieve a carbon-free power sector by 2050, in theory no new carbon-emitting power plants ought to be built after 2015."

EWEA proposes in its new report, "EU Energy Policy to 2050":

- A binding "Emissions Performance Standard" (EPS) to limit carbon emissions on new power plants from 2015, starting at 350g/KWh – the emissions of a gas plant – and go down over time to encourage technological progress.
- Reducing Europe's domestic 2020 emissions by 30% instead of the current 20% target, which include reductions outside the EU.
- Domestic emissions-reduction targets for 2030, 2040 and 2050, taking the power sector to zero carbon by 2050, as well as a 2030 renewable energy target. Higher emission-reduction targets would also help tighten up the Emissions Trading System and make it more efficient.

"Europe needs to agree new policies and targets now for the period after 2020 to achieve the 80-95% emissions reduction it has committed itself to" said Kjaer. "EWEA believes a more ambitious emissions-reduction target for 2020, alongside additional goals for 2030 and 2040, an Emissions Performance Standard and a new renewable energy target for 2030 can drive the 'revolution in energy systems' which EU Heads of State recently acknowledged is necessary."

EWEA believes that wind energy alone could provide 50% of the EU's power demand by 2050, with the other 50% coming from the many other renewable energy technologies.

Find out all about EWEA's vision up to 2050 in the new issue of [Wind Directions](#).

Read [EWEA's 2050 report](#).

Read about EU Climate Action Commissioner Connie Hedegaard's [comments](#) on the chances for 100% renewables for Europe by 2050.

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 Filippo Gagliardi and send him their contribution by 22 April at the latest (filippo.gagliardi@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 300 people in total).

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Section 4 – Events

EWEA 2011 review – “Biggest EWEA event ever”

14-17 March 2011, Brussels, Belgium

With over 9,000 registered participants, the EWEA 2011 Annual Event (formerly known as EWEC) broke all records as the association’s biggest event ever.

Over 2,400 conference delegates came from a wide range of industry sectors and thousands visited the exhibition featuring 445 companies from Europe, Asia and America.

[See photos and videos from EWEA2011!](#)

May

EWEA Wind Resource Assessment Technology Workshop: - How to measure the wind resource?

10 and 11 May 2011 – Brussels, Belgium

The workshop will take place at SQUARE - BRUSSELS MEETING CENTRE (Glass Entrance, rue Mont des Arts, 1000 Brussels). It will cover the following topics, with ample time for discussion with participants:

- **Mesoscale modelling** – chaired by Andrea Hahmann, Wind Energy Division, Risø DTU
- **Remote sensing** – chaired by Oisin Brady, Natural Power
- **Advanced modelling** - chaired by Christiane Montavon, ANSYS Ltd
- **Wakes** - chaired by Andrew Tindal, GL Garrad Hassan
- **Concluding session: a comparison of resource assessment procedures** – chaired by Mike Anderson, RES - Renewable Energy Systems Ltd.

Reduced registration fees for EWEA members, academics, NGOs and students.

Full programme, presenters and registration: www.ewea.org/events

November

EWEA OFFSHORE 2011: The world's largest offshore wind energy conference and exhibition

29 November – 1 December 2011 - Amsterdam, The Netherlands

The call for abstracts is open for EWEA’s upcoming offshore conference! **Submit your abstract before 4 May** to present a new project or research study to over 4,000 expected participants. Interested in contributing to this event?

Submit your abstract in one of the following categories:

Topic themes include:

- Speaking from experience: wind energy lessons learned, availability and new ideas;
- The offshore sector - beyond technology: legal, finance, planning and environment, markets, policies, education and human resources;
- Hardware: turbines, support structures, components and floating concepts
- Grids and infrastructure: electricity markets, grid connection and operation technologies
- Logistics: O&M, health and safety, transportation and installation, supply chain and decommissioning
- Wind, waves, current and soil: measuring, forecasting and modelling the offshore resources

Check out all the details on www.ewea.org/offshore2011.

The 2011 exhibition is almost triple the size of the 2007 edition! The exhibition is already expanded to almost 6,000 m² and will feature the world's key players in offshore wind power – among them manufacturers, developers, engineering and construction companies, power generators and utilities.

Secure your company's presence at this year's largest offshore wind exhibition. [Book your stand now](#).

For further information on EWEA OFFSHORE 2011 visit: www.ewea.org/offshore2011

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**All EWEA events are organised by the Industry for the Industry and represent real value for money:
EVERY EURO SPENT ON THESE EVENTS IS PUT TO WORK PROMOTING WIND ENERGY.**