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European Wind Energy  
Technology Platform

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Monthly TPWind Newsletter,  
August 2010

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Produced for TPWind by the European Wind Energy Association

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



## Section 1 – Funding opportunities

### Entrepreneurship and Innovation Programme – eco-innovation

*Call deadline: 9 September 2010*

The 2010 “Entrepreneurship and Innovation Programme” (EIP) call for proposal focusing on eco-innovation is open. The EIP is one of the strands of the “Competitiveness and Innovation Programme” (CIP). Approximately €35 m will be made available through this call, supporting up to 50% of the eligible project costs. This call is addressed mainly to organisations that have developed an environmental product, service, management practice or process which has a proven track record, yet is not fully marketed due to residual risks. The Eco-innovation initiative is intended to overcome those barriers to further market penetration and turn these products and processes into Europe's future eco-innovation successes. Applications from SMEs are particularly encouraged.

The objectives of the 2010 eco-innovation call for proposals are the following:

- Promote the adoption of new and integrated approaches to eco-innovation in fields such as environmental management and more environmentally friendly products, processes and services.
- Encourage the uptake of environmental solutions by increasing the market and by removing the barriers to market penetration. Solutions are understood to include products, processes, technologies or services.
- Increase innovation capacities of SMEs.

Successful projects will have to:

- Have an innovative character and substantial positive impacts on the environment;
- Provide significant replication, wider application and broader marketability;
- Be relevant for and show clear and substantial benefits in support of Europe's environmental policy objectives;
- Demonstrate a European added value and an international project dimension;
- Be well thought through from a technical and project management perspective;
- Be cost-effective delivering higher quality through appropriate effort levels.

More information is available [here](#).

### 7<sup>th</sup> Framework Programme for Research and Development

The new FP7 Energy calls for proposals (belonging to the 2011 Work Programme) were published on 20 July, 2010. 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 webpage: <http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7CallsPage>.

*Call deadline: 16 November 2010 (pre-proposals only – this topic follows a two-stage evaluation procedure)*

Topic ENERGY.2011.2.3-2: Development of design tools for Offshore Wind farm clusters  
Open in call: FP7-ENERGY-2011-1

Content/scope: The expected growth of offshore wind energy is enormous and many new wind parks are planned for the coming years. Experience from the existing wind farms shows the importance of a proper distribution of the wind turbines as well their efficient interconnection within the farm. In addition, bringing wind farms together into clusters towards a wind power plant concept may induce long distance negative interaction between the farms, reducing their expected efficiency.

The objective of this topic is to develop new design tools to optimise the exploitation of individual wind farms as well as wind farm clusters, in view of transforming them into virtual power plants.

Such design tools should integrate:

- Spatial modelling: medium (within wind farms) to long distance (between wind farms) wake effects
- Interconnection optimisation: to satisfy grid connection requirements and provide power plant system service.
- Precise energy yield prediction: to ease investment decisions based on accurate simulations

The project should focus on offshore wind power systems and make optimal use of previously developed models. Validation should be carried out within existing wind farms, but could include advantageous plans for measurement and testing in relation to future large scale offshore wind installations.

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.

*Call deadline: 18 January 2011*

OCEAN.2011-1: Multi-use offshore platforms

Call: FP7-OCEAN-2011

Increasingly, energy, fisheries and transport infrastructures are being established offshore.

Facilities such as offshore wind farms may occupy large areas and compete with other users of the maritime space. Offshore platforms that can combine many functions within the same infrastructure could offer significant benefits in terms of economics, optimising spatial planning and minimising the impact on the environment.

This topic aims to develop novel innovative designs for multi-use offshore platforms and assess the technical, economical and environmental feasibility of constructing, installing, operating, servicing, maintaining and decommissioning together with the related transport aspects. The platforms shall target ocean renewable energy and in particular offshore wind, aquaculture and the related transport maritime services.

The work shall determine the optimal locations for multi-use offshore platforms taking into account renewable (in particular wind) energy resources, appropriate aquaculture, transport issues, and other platform-related activities including accessibility and possible use as offshore terminals. Model validations should be employed on several sites using field measurements.

Innovative designs for multi-use offshore platforms shall be developed that allow optimal coupling of the various activities and services. Research shall include safe, efficient installation, operation maintenance and monitoring (including possibly remotely) together with specialised transportation to optimise efficiency, operation and installation.

Designs of large structures shall be developed that allow coupling of ocean renewable energy with aquaculture, off shore transport facilities, environmental monitoring and other relevant activities. These should lead to optimised spatial use and improved economic viability. "Offshore" is considered to be "out of sight" from the coast.

Physical modelling shall be employed at an appropriate scale for experimental validation of the proposed platforms.

Research into relations between the combined activities shall in particular address the interaction between wind energy and other platform users, innovative containment systems and related technology for optimal aquaculture operation, the development of transport solutions for optimised installation, maintenance, operation and services to shipping (breakwater, terminals etc). Compatibility of current aquaculture equipment and techniques (handling, husbandry, feeding, etc) with establishment on a multi use platform and possible innovations should also be considered.

An assessment of the economic viability and value to the various stakeholders shall be undertaken. This shall include consideration of costs for construction, operation, servicing and decommissioning. This assessment should include a comparison to non multi-use platforms.

The project shall include a comprehensive environmental impact methodology and assessment, including a comparison to non multi-use solutions.

When appropriate, knowledge shall be drawn from pre-existing research and data.

OCEAN.2011-4: Knowledge-base and tools for regional networks of MPAs, integrated management of activities together with assessment of wind energy potential in the Mediterranean and the Black Sea

Call: FP7-OCEAN-2011

Due to the specific nature of the Mediterranean and Black Sea and the rapid expansion of seabased activities, there is a need to create new knowledge to support the development of decision maker's tools for optimising the management of human activities, within an integrated coastal and marine space system.

The objective of the project is to build up scientific basis firstly for establishing regional or sub-regional wide networks of marine protected areas (MPAs) for conservation and better management of marine living resources,

secondly for assessing offshore wind energy potential while evaluating possible synergies and conflicts of use with other marine activities.

Research on MPAs will concern the establishment of scientific guidelines, criteria, models and tools for the design, mapping, management, monitoring and control of regional or subregional networks of MPAs including deep-sea habitats and areas beyond national jurisdictions. These networks of MPAs should respond to clearly established objectives, from protecting biodiversity (strict reserves) to achieving a sustainable exploitation of aquatic living resources by preserving nursery grounds and juveniles (restricted areas).

The focus will be on the identification of priority areas in both basins through a hierarchical approach based on ecological and socio-economic criteria in underrepresented or poorly studied areas and ecosystems (e.g. the high seas and the deep seas). Sizing, spacing and ecological connectivity and interdependency between sites will be studied for optimal maintenance of species populations and biodiversity (spill over effect), considering possible genetic exchange, larval behaviour patterns and larval dispersal and making the best use of molecular science and multidisciplinary approaches between marine genomics and ecosystem science. Habitat discontinuity and fragmentation, physical oceanography should also be considered. The development of management strategies for implementing the regional networks such as regulation measures to limit and ban certain practices, dynamic closures, legal issues for managing trans-boundary areas and high seas MPAs are key elements of the project. The project should also promote innovative communication strategies between scientists, managers, fishermen, shippers, NGOs, potential users and public at large.

Research on wind energy will provide a scientific basis for assessing off-shore wind potential in the Mediterranean and the Black Sea, focusing on areas already identified as promising with respect to wind regimes. The project should assess the potential for offshore wind power production based on the use of existing models. It will also evaluate potential conflicts with other uses of the space (MPAs, maritime transport, on shore large desalination plants, dredging, fishing, aquaculture, sub-sea cables, pipelines, tourism, etc). The project should deliver scientific guidelines for an enriched "wind atlas" for decision-makers and planners.

Moreover the project shall launch two pilot studies, at least one in the Mediterranean and one in the Black Sea, addressing the establishment of regional networks of MPAs, also combining if possible wind energy development, and considering all the possible conflicts from other maritime activities. The pilot studies should address selected areas within regions or subregions of the Mediterranean Sea and the Black Sea as defined in the Marine Strategy Framework Directive.

The project should reinforce capacity building in support to international cooperation by transferring and making compatible methods across the two basins and by promoting common rules and practices in particular with non EU countries from the Balkans, Southern Mediterranean and Eastern Europe bordering the two seas.

*Call deadline: 7 April 2011*

#### Topic ENERGY.2011.2.3-1: Demonstration of innovative off-shore 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. Beside 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 farms 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 transmit 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.

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## Section 2 – Secretariat news

### New TPWind call for expression of interest launched

On 26 July TPWind published a "call for expression of interest" to select new Working Group members and renew its membership base.

This call, which follows the first one launched in 2007, concerns Working Groups only. The Steering Committee and the Member States Mirror Group of the Platform will not be modified.

Candidates willing to join a TPWind Working Group should read carefully the text of the call and apply through an ad-hoc online tool.

The tool will be available as from 23 August on the call webpage: <http://www.windplatform.eu/118.0.html>.

A candidate cannot submit more than one application: every submission after the first one will not be taken into consideration.

Further to that, new TPWind Working Group members will be selected by the Steering Committee according to the modalities outlined in the call: the final decision of the Steering Committee will be irrevocable.

The deadline of the call is 25 September, 2010, at midnight (Brussels time). Any application received after the deadline will be disregarded.

### Developing the 2011 EWI Work Programme

Following the official launch of the European Wind Initiative (EWI) at the Madrid SET-Plan conference on 3 – 4 June, the European Commission published the latest version of its 2010 – 2012 Implementation Plan, which is available here: [http://ec.europa.eu/energy/technology/initiatives/doc/wind\\_implementation\\_plan\\_final.pdf](http://ec.europa.eu/energy/technology/initiatives/doc/wind_implementation_plan_final.pdf).

Attention is therefore shifting towards the development of the EWI 2011 Work Programme, which will ensure its proper implementation.

Every year, the Wind European Industrial Initiative (EII) Team will translate the EWI into an annual Work Programme, composed of a list of calls for proposals and budget allocations to be implemented by relevant EU and national authorities. In comparison to the EWI and its 2010 – 2012 Implementation Plan, which have a clear strategic dimension, yearly Work Programmes will therefore be operational documents.

As already outlined in previous issues of this newsletter, the Wind EII Team is composed of EU, national and TPWind representatives and represents the implementing body of the European Wind Initiative.

Its first meeting was held on 19 May and the next one will take place on 13 September (the one planned for 20 July and announced in the last issue of this newsletter was cancelled).

TPWind is currently developing the first draft of the 2011 EWI Work Programme, which will be discussed and revised with EU Institutions and Member States after the summer break.

Further to that, TPWind is working to ensure that the implementation of the EWI will be coordinated with that of:

- The Electricity Grids European Industrial Initiative, launched in Madrid together with the EWI ([http://ec.europa.eu/energy/technology/initiatives/doc/grid\\_implementation\\_plan\\_final.pdf](http://ec.europa.eu/energy/technology/initiatives/doc/grid_implementation_plan_final.pdf)) – an official proposal to achieve coordination was sent to its representatives and the European Commission on 18 May;
- The Joint Research Programme on Wind Energy of the European Energy Research Alliance (EERA - <http://www.eera-set.eu/index.php?index=37>) – an ad-hoc meeting between TPWind and EERA representatives is planned for 14 September.

The 2011 EWI Work Programme should be ready by the end of 2010. Before being implemented, it will have to be approved by the Wind EII Team and by the SET-Plan High Level Steering Group.

Additional information on the 2011 EWI Work Programme will be provided in the next issues of this newsletter.

### FP7 mid-term review: public consultation published

On 2 July, the European Commission published a public consultation that will contribute to the FP7 mid-term review.

The FP7 interim evaluation will be carried out by a group of independent experts, supported by an extensive base of evidence. In order to provide the experts with a range of opinions and views about the functioning and achievements of FP7, the public consultation was launched.

The consultation aims to collect contributions both from those with direct experience of the FP, as well as any groups or individuals who wish to give their views. The survey addresses stakeholders including major users of FP7, research organisations and firms.

Submitted contributions will be published online.

The deadline of the public consultation is 27 August.

For more information and to participate, visit the FP7 mid-term review public consultation webpage: [http://ec.europa.eu/research/consultations/fp7/consultation\\_en.htm](http://ec.europa.eu/research/consultations/fp7/consultation_en.htm).

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## **Section 3 – Members’ news**

### **ENTSO-E 10 Year Grid Development Plan**

The release by ENTSO-E of the revised pilot Ten-Year Network Development Plan (TYNDP) on 30 June “marks a useful step towards a much-needed European electricity grid that interconnects national electricity systems, benefits consumers, and enables the integration of large amounts of wind energy” according to Justin Wilkes, Policy Director of the European Wind Energy Association (EWEA).

The pilot TYNDP acknowledges that “large grid investments must be undertaken at a quicker pace than during the last years so as to achieve the contemplated EU 2020 targets.”

However, it only reflects the current plans of the TSOs and not the targets of the EU and its member states. ENTSO-E promises to take into account the Renewable Energy Action Plans (NREAPs) that Member States will submit to the European Commission this year. As a result, the report currently only envisages that 25.5% of the power demand in the EU will be supplied by RES in 2020 – considerably less than the 34% of electricity that the European Commission thinks will be provided by RES by 2020.

“It is vital to take the NREAPs into account in the TYNDP, and EWEA welcomes ENTSO-E’s commitment to do so as soon as possible” commented Wilkes. “This will result in a more realistic plan and a genuinely European vision for grid infrastructure.”

The pilot TYNDP pinpoints seven main investment clusters for a total cost of €23bn to €28bn across Europe. A significant slice of that investment is foreseen for the North Sea (€12 to 14bn) and Baltic Sea (€11 to 13bn).

“The publication of a ten year European grid development plan is good news. It’s now crucial that the NREAPs are incorporated and that plan allows the EU to meet its climate and renewable energy targets” concluded Wilkes.

The first official TYNDP is required by EU energy legislation to come out in 2012.

### **FP7 Maritime Transport Brokerage Event 2010**

The UK Shipyard association SSA is organizing the “FP7 Maritime Transport Brokerage Event 2010 London”, to be held at the Department of Business, Innovation & Skills (BIS) Conference Centre (1 Victoria Street, London) on 1 - 2 September.

Over the two days the event will look at future challenges, showcase the innovation and technology driven products from across Europe and talk about the R&D funding opportunities, including the FP7 (relevant themes: “Transport” and “Ocean of Tomorrow”). This is an ideal opportunity to find out more about FP7 and how to get involved.

The event, in partnership with CESA, WATERBORNE and other industry bodies, intends to provide a Pan-European platform for the maritime industry to come together and share their knowledge and key challenges faced, presenting opportunities for collaboration, the development of innovative solutions and ultimately improved business performance for European Maritime Industry.

The event will encourage the preparation of relevant RTD project proposals for the FP7 and will also include a networking dinner on 1 September at the HMS President 1918, Victoria Embankment, London.

In order to make the event a success, potential project ideas should be submitted no later than the 10 August 2010.

For more information on the event and to register, please contact Mr. Lanfranco Benedetti at CESA ([lb@cesa.eu](mailto:lb@cesa.eu)).

### **9th International Windintegration–Workshop in Québec City, Canada this fall**

For the first time in its history, the 9<sup>th</sup> International Workshop on Large-Scale Integration of Wind Power into Power Systems and on Transmission Networks for Offshore Wind Power Plants goes overseas. On 18 and 19 October, 2010, approximately 300 experts in wind energy, power transmission, power systems and market operation from more than 20 countries will meet in Québec City, Canada. This workshop is organised by the German energy consulting company Energynautics in cooperation with the Canadian electricity generator and distributor Hydro Québec.

The workshop aims at stimulating cooperation between the wind energy industry, transmission/distribution network operators and research facilities.

The topics attracting the largest interest world-wide – and therefore the focus of the Québec Windintegration workshop – are related to grid integration of wind power, including recent developments in grid connection technology, power management systems for offshore wind farms, production forecast and control systems as well as grid connection standards and regulations.

Further to that, this year's Windintegration Workshop is embedded into a number of related events such as the recurring UWIG Fall Technical Workshop (14 and 15 October, 2010), the Fourth Workshop on Best Practice in the Use of Short-term Forecasting of Wind Power (16 October, 2010), Tutorials on Wind Turbine Modeling (16 October, 2010) and a field trip (16 October, 2010).

The preliminary programme and registration details are available on the workshop homepage: <http://www.windintegrationworkshop.org>.

*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 20 August at the latest ([filippo.gagliardi@ewea.org](mailto: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

### November

#### Grids 2010

*23-24 November, 2010 - Berlin, Germany*

GRIDS 2010 is a two-day conference and exhibition organised by EWEA. The event will explore the financial, technical, policy and regulatory issues that will shape the development of a grid that meets Europe's energy, consumer and climate needs.

[Full programme](#)

[Register now at early bird rates](#)

[Exhibition: only 40 stands left](#)

### 2011

#### EWEA 2011 – Annual European Wind Energy Conference and Exhibition (formerly known as “EWEC”)

*14-17 March, 2011 - Brussels, Belgium*

Organised by EWEA for the past 25 years, the EWEA Annual Event is the annual flag-ship event offers a unique opportunity to generate new business leads. Year after year, the EWEA Annual Event (formerly known as “EWEC”) keeps on growing.

Europe's leading wind energy conference and exhibition offers a comprehensive overview of the latest developments and vibrant networking opportunities.

[Call for abstracts now open](#)

Exhibition: 68% of space already sold! [Book your exhibition space now](#) to ensure the best visibility for your organisation.

More information is available here: [www.ewea.org/annual2011](http://www.ewea.org/annual2011)

#### Offshore 2011

*29 November – 1 December, 2011 - Amsterdam, the Netherlands*

EWEA holds its offshore wind conference and exhibition once every two years. OFFSHORE 2011 in Amsterdam will build on the huge success of the previous edition that took place in Stockholm, Sweden in 2009 and attracted over 4,850 people coming to see over 260 exhibitors and participate in the 23 conference sessions and numerous side events.

The call for abstracts for OFFSHORE 2011 will be launched by the end of 2010.

[Exhibition and sponsorship opportunities](#)

More information is available here: [www.ewea.org/offshore2011](http://www.ewea.org/offshore2011)

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