



Monthly TPWind Newsletter  
January 2011

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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

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

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

*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, offshore 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 sea-based activities, there is a need to create new knowledge to support the development of decision makers' 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 sub-regional 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, and 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 the public at large.

Research on wind energy will provide a scientific basis for assessing offshore 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, onshore 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 sub-regions of the Mediterranean Sea and the Black Sea as defined in the Marine Strategy Framework Directive.

The project should reinforce capacity building in support of 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 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. 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 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.

## **NER300**

*Call deadline: 9 February 2011*

The New Entrants Reserve 300 call for proposals, created by the Emission Trading Scheme (ETS) directive, was published on 9 November 2010.

The call will allocate 200 m carbon allowances for supporting innovative renewable energy and CCS demonstration projects. The remaining 100 m, plus unspent resources of the current call, will be allocated through a second NER300 call, to be published in 2012.

The European Commission will select projects through a competitive process which incorporates the following four-step evaluation procedure:

1. Eligibility Assessment – Member States will undertake an assessment of the Projects against the Eligibility Criteria of the call. Member States will submit those projects they consider eligible and wish to support to the EIB for further assessment.
2. Assessment of Projects - The EIB, which acts for the NER 300 process on the request of, on behalf of and for the account of the Commission, will undertake detailed technical and financial Due Diligence with respect to each submitted Proposal in accordance with specifications agreed with the Commission.
3. Ranking of Projects - The EIB will undertake a ranking of projects for which Due Diligence has been concluded positively based on least Cost Per Unit Performance (CPUP).
4. Award Decision - Determined by the Commission, after verifying the eligibility of the proposed projects, re-consulting the Member States concerned to confirm the value and structure of the total public funding contribution, and following an opinion from the Climate Change Committee (CCC). The Award Decision is conditional on issue of all national permits, approval of any State aid, and reaching of final investment decisions.

In principle, the financial contribution will not exceed 50% of relevant project costs.

Eligible technologies are the following:

Renewables:

- Bioenergy
- Concentrated solar power
- PV
- Geothermal
- Wind
- Ocean
- Hydropower
- Distributed Renewable Management (smart grids)

Six projects in total should be funded in the field of wind power.

CCS:

- Post combustion
- Pre-combustion
- Oxy Fuel
- Industrial

The deadline for the submission of project proposals to Member States is 9 February 2011 and the deadline for the submission of projects to the EIB (for Member States) is 9 May 2011. The final award decision of the European Commission should be communicated in the second half of 2012.

More information is available here: [http://ec.europa.eu/clima/funding/ner300/index\\_en.htm](http://ec.europa.eu/clima/funding/ner300/index_en.htm).

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## Section 2 – Secretariat news

### The implementation of the European Wind Initiative (EWI)

The 2011 EWI Work Programme was finalised in October 2010 and TPWind is now working on its implementation together with EU Institutions and Member States.

In greater details, TPWind is supporting the European Commission in the development of FP7 topics on wind energy that should be published in 2011. Further to that, it will support EU Institutions in their efforts to ensure an adequate level of joint-programming with and between Member States, which is essential to mobilise all the resources required to implement the EWI.

According to the latest information available, a first concrete attempt at ensuring joint-programming will be implemented in January 2011, when an ad-hoc meeting will be organised to discuss EU and Member States co-funding of a project aiming at developing the new European Wind Atlas.

In 2011 TPWind will focus on the following activities to ensure a proper implementation of the EWI:

- Development of the 2012 EWI Work Programme, which will identify EU and national calls for proposals and budget allocations to be implemented next year;
- Development of the 2013 – 2015 EWI Implementation Plan, which will replace the existing one (covering the 2010 – 2012 period);
- Development of the new “grid integration” strand of the EWI, which will replace the existing one in order to ensure proper coordination with the research activities covered by the EU Electricity Grid Initiative (EEGI), which is another Industrial Initiative of the EU SET-Plan (Strategic Energy Technology Plan).

Additional information on the implementation of the EWI will be provided in upcoming issues of this newsletter.

### New TPWind Working Groups established

Following the “call for expression of interest” launched in July and closed in October 2010, new TPWind Working Group members were selected by the Platform’s Steering Committee.

More than 200 applications were received in total and 139 were selected. Applications were scored on the basis of the criteria outlined in the call’s guidelines, i.e.:

- Candidate’s education and working experience in the wind energy sector;
- Candidate’s scientific background;
- Candidate’s specific areas of technology interest;
- Candidate’s working experience in international environments;
- Candidate’s motivation.

Once the scoring phase was completed, a further analysis was performed by the Steering Committee in order to ensure, in each Working Group, a proper:

- Balance of private and public organisations;
- Balance of large companies and SMEs;
- Geographical coverage (in terms of Countries represented in TPWind);
- Gender balance.

This analysis therefore entailed a more “qualitative” evaluation, rather than a “quantitative” one.

As a result of this process, some applications had to be rejected, but in the vast majority of cases the decision not to select candidates was due to the need of striking the right balance in the composition of each Working Group. The final results of the selection were announced on 13 December 2010 and published on the TPWind website. They are now accessible here: <http://www.windplatform.eu/8.0.html>.

New TPWind members replace those selected through the Platform’s first “call for expression of interest”, which took place in 2007.

Further to that, the entire TPWind website was updated in order to reflect the changes implemented to the structure of the Platform.

As of December 2010, TPWind has five Working Groups only instead of seven, since the Finance Working Group was phased out in April 2009 and the two former policy Working Groups (i.e. WG 5 and 6) were merged into the new "Environment & Deployment" WG.

Moreover, a new Advisory Board (AB) is currently being established. The AB, which will be operational as of January or February 2011, will ensure better communication between TPWind and relevant stakeholders and will enhance the network of the Platform.

Thanks to these changes, TPWind is now ready to perform and face the challenges ahead. The new structure of the Platform will remain in place at least until the end of 2013.

The last step in the renewal of TPWind will be implemented in the first half of 2011, when new Steering Committee members will be selected.

In order to reflect all the changes introduced to the structure of the Platform, a new version of its Terms of Reference will be developed and published online in the coming weeks.

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## Section 3 – Members' news

### EU Countries agree to build common offshore electricity grid

The signing, on 3 December by 10 Ministers from all the "North Seas Countries", of an agreement to develop an offshore electricity grid is a long-awaited and major step forward for a single European market for electricity. The Memorandum of Understanding, signed by Ministers and the European Commission in Brussels, is the starting point to create a new offshore grid and to tear down unnecessary and costly barriers to electricity trade between EU Member States:

- EU governments have agreed to cooperate on identifying and eliminating barriers to cross-border electricity trade;
- Ministers also agreed to simplify complex and lengthy authorisation procedures, which today hinder the planning and construction of a transnational offshore grid.

"The European Commission has highlighted that 140 Gigawatt of offshore wind power capacity is currently being planned. For us, Europe's wind energy industry, the Memorandum is an indispensable step to create an offshore electricity grid, critical for developing a single European market for electricity and for allowing offshore wind farms to plug into that grid", said Christian Kjaer, Chief Executive Officer of the European Wind Energy Association (EWEA).

For more information about the offshore wind development see the [EWEA Offshore Report 2009](#).

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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 Filippo Gagliardi and send him their contribution by 21 January 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

### January 2011

#### **OffshoreGrid workshop**

*25 January 2011 – Athens, Greece*

The OffshoreGrid project provides policy recommendations for the process towards an offshore electricity grid in Northern Europe, including cost-benefit analyses. The project has gone into its second phase, with the modelling of extra designs and a qualitative transfer of results to the Mediterranean Region.

The OffshoreGrid's Mediterranean Workshop will take place on 25 January 2011 in Athens, Greece, and attendance is free of charge.

For more information please visit [www.offshoregrid.eu](http://www.offshoregrid.eu) or contact [sharon.wokke@ewea.org](mailto:sharon.wokke@ewea.org).

### February 2011

#### **EWEA debate: "25 years after the Single Market Act – when will Europe have a single electricity market?"**

*1 February 2011 – Brussels, Belgium*

The meeting comes just before Heads of States' Energy and Innovation Summit on 4 February and will present the need – and the benefits and challenges – of a single European electricity market – including a European supergrid. Panellists will include representatives of the European Institutions, think-tanks and key representatives from business and public services associations. Attendance is free of charge.

[Register online](#) or by emailing Elke Zander at [eza@ewea.org](mailto:eza@ewea.org)

### March 2011

#### **TPWind 7<sup>th</sup> General Assembly**

*3 March, 2011 – Brussels, Belgium*

The 7<sup>th</sup> General Assembly, entitled “Renovating the Platform”, will be a key event for TPWind, considering that it will be the first one since the selection of its new Working Groups' members.

As always, TPWind members will have the opportunity to hold Working Groups meetings, where future projects and activities of the Platform will be discussed. Further to that, a plenary session will be organized to provide TPWind members with a comprehensive update on Platform's plans and EU wind energy policies.

The 7<sup>th</sup> General Assembly will include a networking cocktail.

For more information on the event, **which is for TPWind members only**, please contact Filippo Gagliardi ([filippo.gagliardi@ewea.org](mailto:filippo.gagliardi@ewea.org); +32 2 2131813).

#### **EWEA 2011 (formerly known as EWEC): Europe's premier wind energy event**

*14-17 March 2011 - Brussels, Belgium*

Includes the **TPWind side event, Monday 14 March 2011** from 16:00 – 17:30. Open to all registered delegates and exhibition visitors. Further information will be available on the [EWEA 2011 website](#) in the coming weeks.

The EWEA Annual Event (formerly known as EWEC), is approaching fast! Europe's premier wind energy event is expected to attract over **10,000 key industry players in Brussels** - including **leading market players, technical**

**experts and EU & national policy makers.** With a unique combination of a comprehensive conference programme and a first-class exhibition, the EWEA Annual Event is recognised as the '**must-attend event**' by the international wind community.

### **Every aspect of the wind industry covered in one conference!**

Forty sessions featuring over 200 prominent speakers and more than 300 specialised poster presentations will provide delegates with a wide range of relevant, up-to-date information. The variety of speakers and sessions on offer guarantees that delegates will gain an update on both the major trends affecting the industry, as well as the full details of the latest wind-related policies, projects and case studies.

Register online at [www.ewea.org/annual2011](http://www.ewea.org/annual2011) as a conference delegate to participate in the sessions and advance your knowledge across these key areas:

- Policy, industry, markets & regulation
- Finance
- Technology
- Wind Resource
- Grids

**Learn from and engage with senior attendees from across all industry sectors!** Discover more about the programme, see who will be present and who is speaking and start to plan your trip to Brussels now. Unique networking opportunities are guaranteed through numerous social and side events.

**Exhibition:** The exhibition at EWEA 2011 will be our largest ever. Covering a total of 13,000m<sup>2</sup>, it will feature over **400 key players** representing the wind power from Europe, North America and Asia – including the world's foremost manufacturers, developers, engineering and construction companies, power generators and utilities.

**Global corporations, Europe's technology leaders, medium-sized enterprises and service experts** gathered under one roof. **90%** of space is already sold so don't delay anymore to book your stand! [Book your exhibition space now.](#)

For more information, contact: Sanna Heinonen at [she@ewea.org](mailto:she@ewea.org)

Full information: [www.ewea.org/annual2011](http://www.ewea.org/annual2011)

## **November 2011**

### **OFFSHORE 2011: The world's largest offshore wind event**

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

EWEA holds its offshore wind energy 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 this month – January 2011, so get prepared to submit yours and present in front of the industry senior experts!

[Exhibition and sponsorship opportunities](#)

Full information: [www.ewea.org/offshore2011](http://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.**