



Monthly TPWind Newsletter – September 2009

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Developed by TPWind Secretariat

For any **feedback or question** on the newsletter or to **unsubscribe**, please contact Filippo Gagliardi (filippo.gagliardi@ewea.org, +32 2 546 1982).

Section 1 – Funding opportunities

Entrepreneurship and Innovation Programme (EIP)

Call deadline: 10 September 2009

The EIP has the aim of promoting all forms of innovation in enterprises (especially in SMEs). It has an overall budget of € 585 m and runs from 2007 to 2013.

The 2009 EIP “call” has been published on April 20th, 2009, has a total budget of € 30 m and will close on September 10th, 2009.

The EIP could be relevant to wind energy operators because one of its priorities is the promotion of eco-innovation, which includes all forms of innovations resulting in significantly improved environmental protection (e.g. new production processes, products, services or business methods which prevent or substantially reduce the risks they pose to the environment). For this reason, the development of new recycling strategies represents one of the key areas supported by EIP.

More information can be found [here](#).

7th Framework Programme for Research & Development: Future Emerging Technologies

Call deadline: 15 October 2009 (pre-proposals only)

The 2010 FP7 FET (Future Emerging Technologies) call for proposals, with a total budget of € 18 m, has been published on July 30th, 2009.

The following topic is relevant to energy technologies, including wind power:

Topic ENERGY.2010.10.2-1: Future Emerging Technologies for Energy Applications (FET)

Technical content/scope: The development of energy technologies is often impeded by bottlenecks which require the development and application of basic science and cross-cutting technologies. Also, real breakthroughs in the energy sector come quite often from progress in basic materials science that underpins energy technologies due to the radical upgrade in the properties of the materials. This topic aims at ensuring a genuine chance for 'emerging ideas' to be funded. It is to provide rewards for 'high risk / high impact' science and to vigorously promote multi-disciplinarity. Research should embrace a wide spectrum of novel technologies and novel materials for energy applications should have tangible objectives beyond “Increased Understanding” and be ahead of conventional approaches, be highly novel, very ambitious, with an orientation towards long-term innovation. Projects should try reaching a clearly defined scientific goal and/or proof of concept of a new basic technology, which in either case has the potential to open up new fields of enquire and lies well beyond what is considered state of the art at international level. Research that constitutes a technology demonstration or a combination of existing technologies or finally any research directed towards hypothetical phenomena, with no plausible or convincing evidence as to their real or potential existence is not within the scope of this topic.

Funding scheme: Collaborative Project.

Additional Information: This is a pre-competitive topic where cooperation with top class research groups from Third Countries can boost the impact of the project. Projects will involve effective partnership, from different scientific disciplines and/or different technological sectors, in order to

work across traditional boundaries. They should demonstrate effective management and research flexibility. This will be considered in the evaluation. Project under this call may request an EC contribution of maximum € 3 m. This is an eligibility criterion.

Expected impact: To explore new paths leading to highly innovative novel technologies for energy applications and to contribute to the establishment of a strong scientific and technical base for European science and technology in emerging areas of energy research. The potential impact on the energy system has to be clearly demonstrated, already in the first stage proposal.

The evaluation procedure of this call will follow a two-stage approach.

Pre-proposals will have to be submitted by October 15th, 2009. If the first evaluation will be passed, full proposals will have to be finalized by March 11th, 2010.

More information and the full application package can be found [here](#).

7th Framework Programme for Research & Development: Energy 1

Call deadline: 15 October 2009 (pre-proposals only)

The 2010 FP7 Energy “1” call for proposals, with a total budget of € 54 m, has been published on July 30th, 2009.

The following two topics are relevant to wind energy:

Topic ENERGY.2010.2.3-1: Cross-sectoral approach to the development of very large offshore wind turbines

Contents/scope: The project will test at industrial prototype scale the best available concepts, materials and technologies, e.g. fault tolerant systems based on advanced power electronics and ICT sub-systems, in view of the development of off-shore wind turbines in the range of 10MW. This shall also serve the purpose of developing new concepts, materials and technologies for the further up-scaling (> 10MW) of off-shore wind turbines. Projects shall adopt a cross-sectoral approach to take benefit from the diversity of the expertise in offshore developments. The elimination of the major current bottlenecks related to extreme reliability requirements, the effectiveness of remote maintenance, the delivering of stable power into the grid and/or weight/size limitations shall be of central concern.

Funding scheme: Collaborative Project.

Expected impact: Offshore wind energy carries many advantages such as more regular high intensity wind regimes leading to larger electricity production potential from the wind turbines. In addition, some of the constraints related to land-based wind turbines can be relaxed such as noise and visual impacts once the turbines are installed far from the coast. This will allow better use of the huge potential of offshore wind energy with very large and robust wind turbines and will bring down the today high cost of offshore wind power for massive deployment.

Additional information: The active participation of stakeholders involved in harsh environment industrial developments is essential to achieving the full impact of the project. This will be considered in the evaluation.

Topic ENERGY.2010.7.3-1: Energy storage systems for power distribution networks.

Contents/scope: This topic aims at technology development of energy storage systems for stationary applications in the power range of several tens of kW to 1 MW, and larger. The work should include innovative components and their integration for cost-effective energy storage

systems. The characteristics should target energy storage systems applications supporting the integration of variable renewable electricity energy sources such as wind, wave power and photovoltaics.

Funding scheme: Collaborative Project.

Expected impact: The research and development of cost-effective energy storage systems, based on different technologies, should contribute to increasing the hosting capacity of future electricity distribution networks for variable distributed energy resources and to the reliability, efficiency, security and reduced environmental impact of these networks.

The evaluation procedure of this call will follow a two-stage approach.

Pre-proposals will have to be submitted by October 15th, 2009. If the first evaluation will be passed, full proposals will have to be finalized by March 11th, 2010.

More information and the full application package can be found [here](#).

7th Framework Programme for Research & Development: Infrastructures

Call deadline: 3 December 2009

The FP7 Specific Programme “Capacities” aims at optimising the use and development of research infrastructures (as opposed to the Specific Programme “Cooperation”, which supports R&D actions).

On July 30th, 2009, the 2010 Infrastructures “1” call for proposals, belonging to “Capacities”, has been published with a total budget of € 216,94 m.

The following topic is relevant to wind energy:

INFRA-2010-1.1.23: Research Infrastructures for offshore renewable energy devices: ocean-, current-, wave- and wind energy. A project under this topic should aim at integrating the key research infrastructures in Europe for research on marine current power, tidal stream energy, tidal power, wave power, open questions concerning the transfer of energy, grid integration. Partners offering transnational access should include existing pilot and demonstration plants to be used as research infrastructures as well as laboratory scale installations like wave basins to large scale open sea test sites. This topic will support the European Strategic Energy Technology Plan (SET-Plan, COM (2007)723).

More information and the full application package can be found [here](#).

7th Framework Programme for Research & Development: Ocean

Call deadline: 14 January 2010

On July 30th, 2009, the FP7 “Ocean of Tomorrow” call for proposals, with a total budget of € 34 m, has been published.

This call has a horizontal approach: its topics are not linked specifically to any particular technology and are therefore potentially relevant also for wind energy operators.

More in details, the purpose of this call is to encourage relevant stakeholders to join resources in order to meet challenges in ocean management. As a matter of fact, Oceans offer opportunities for

sustainable economic development. However, human activities are exerting increasing environmental pressure on the oceans, which is threatening marine ecosystems and sustainable maritime activities. The aim of this call for proposals is therefore to improve understanding on how marine ecosystems respond to a combination of natural and anthropogenic factors, as well as how rapid environmental changes will affect the full range of goods and services provided by the oceans and the development measures that could be developed to mitigate or adapt to these changes.

This call will be implemented through three different topics and a multidisciplinary approach will be essential for projects to be selected for funding:

- Topic OCEAN.2010 -1: Quantification of climate change impacts on economic sectors in the Arctic;
- Topic OCEAN.2010-2: Vectors of changes in ocean and seas marine life, impact on economic sectors;
- Topic OCEAN.2010-3: Sub-seabed carbon storage and the marine environment.

More information and the full application package can be found [here](#).

7th Framework Programme for Research & Development: Energy 2

Call deadline: 4 March 2010

The 2010 FP7 Energy “2” call for proposals, with a total budget of € 126,4 m, has been published on July 30th, 2009.

The following topic is relevant to wind energy:

Topic ENERGY.2010.2.3-2: Support to the coordination of stakeholders’ activities in the field of wind energy

Content/scope: Major stakeholders in the field of wind energy have established the European Wind Energy Technology Platform (TP Wind) in order to foster cooperation in the sector on R&D activities. As a result of this process, the Strategic Research Agenda (SRA) has been published and the Platform is now moving towards implementation of the key topics defined in the past years, in particular through the European Wind Initiative.

This process, which is expected to have a long lasting impact on the structure and potential of the European wind energy sector to implement the European objectives, should be supported by efficient management/coordination and communication activities. Management activities will include the organisation of high-level workshops, conferences and meetings amongst European stakeholders, as well as the promotion of projects originating from the SRA and research and demonstration projects co-funded by the European Commission.

Communication activities will focus on the development and maintenance of IT tools and databases, on the preparation of information leaflets, brochures, reports, newsletters and other relevant documents, as well as on facilitating the flow and exchange of information within TP Wind and with other relevant Technology Platforms and national and international organisations.

In particular, the development of stronger ties with the oil & gas, maritime and strong cooperation with grids sectors shall lead to the development of a shared strategy towards common European energy and climate change policy and energy market challenges (e.g. installation of offshore wind turbine generators; wind-grid integration, etc.).

Funding Scheme: Coordination and Support Action (supporting action).

Expected Impact: A deepening of the cooperation of relevant stakeholders would contribute to:

- Increase the efficiency and competitiveness of research & demonstration in the field of wind energy;
- Help maximise synergies with oil & gas and maritime sectors and prevent unnecessary fragmentation of activities.

Additional information: Up to one project may be funded. For this topic, the maximum EC contribution per project will be € 1 m for a period of three years.

More information and the full application package can be found [here](#).

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Section 2 – News from the Secretariat

Meeting on FP7 Infrastructures call

The current FP7 Infrastructures call, published on July 30th and closing on December 3rd, includes a topic targeting ocean and wind energy (i.e. topic INFRA-2010-1.1.23 – see the “Funding Opportunities” section of this newsletter for more information). This topic will finance networking activities between organizations dealing with offshore renewables, in order to encourage the development of common R&D Programmes, the exchange of researchers and the sharing of research facilities.

TPWind has therefore organized a meeting in Brussels on September 10th in order to discuss with relevant wind and ocean energy stakeholders how this call should be approached and how resources should be pulled together in order to develop a competitive and comprehensive proposal. As a matter of fact, it is expected that the European Commission will finance only one project for this topic.

A representative of the European Commission (i.e. Ms. Brigitte Weiss, from DG RTD) will also join the meeting in order to present the call and answer questions from the audience.

For more information on this meeting, please contact Filippo Gagliardi (filippo.gagliardi@ewea.org; +32 2 5461982).

SRA/MDS Implementation Plan: meeting with the EC

Following TPWind 4th General Assembly, held in Brussels on May 13th and 14th, the SRA/MDS Implementation Plan was updated and 20 priority projects were identified (out of the 45 actions included in the first version of the Plan).

The Secretariat will therefore meet EC representatives from DG TREN and DG RTD on September 3rd in order to provide them with detailed information on these actions, which might be financed through future FP7 and “Intelligent Energy Europe” calls for proposals.

The Secretariat is currently in touch with TPWind chairpersons in order to further prioritize the selected projects: it is expected that the number of priority actions will be reduced in the coming days so as to help the European Commission to focus its funding efforts.

More information will be provided in the future issues of the newsletter.

Call for abstracts for EWEC2010 currently open

EWEC is widely regarded as the most professional, comprehensive and informative in the wind sector. It offers a unique opportunity to generate new business leads. EWEC is the only annual event which combines an extensive exhibition of the leading players with a conference covering every key aspect of the wind market – from technical and theoretical to policy and practice. Join over 7,000 key players in the wind industry for four days of networking and professional development.

The 2010 edition of EWEC will be held in Warsaw, Poland, on April 20th – 23rd, 2010.

In order to be included in the conference programme, you can submit your abstract until October 12th, 2009.

More information on the conference and on the call for abstracts is available [here](#).

2009 European Offshore Wind Energy Conference and Exhibition and meeting of TPWind Working Group 4

EWEA's 2009 Offshore Wind Energy Conference and Exhibition, the leading offshore event in Europe, is approaching: it will be held in Stockholm from September 14th to 16th: over 2.500 participants have already registered.

Exhibition visitors will be able to meet over 220 of the key players in offshore wind power from Europe, North America and Asia – the world's foremost manufacturers, developers, power generators, engineering and construction companies, power generators and utilities.

The conference programme will include the following keynote speakers:

- Eamon Ryan, Minister for Communications, Energy and Natural Resources (Ireland);
- Maud Olofsson, Deputy Prime Minister and Minister of Enterprise and Energy (Sweden);
- Andris Piebalgs, European Commissioner for Energy;
- Stephen Sackur, BBC "Hardtalk" presenter, moderator of CEO panel on September 15th.

The conference will offer over 23 sessions and numerous side events covering different aspects of offshore wind developments.

At the end of the conference (i.e. on September 16th), TPWind Working Group 4 members, who focus on offshore, will meet in order to discuss how to update their section of the Strategic Research Agenda and how to implement the priority projects they have identified at the 4th General Assembly of the Platform (held in Brussels on May 13th and 14th).

Since one of their projects targets environmental issues and environmental impact assessments, TPWind members of Working Group 6 (focusing on policy & environment) have been invited to join the meeting as well.

More information is available [here](#).

8th International Workshop for Network Integration of Wind Power and Transmission Networks for Offshore Wind Farms in October 2009 in Bremen

The forthcoming month of October, Energynautics invites you to join the by now 8th edition of its International Workshop for Wind Power Network Integration and Offshore Transmission Networks. Starting in 2000, the workshop has developed into the premier event in this area and was hosted by a variety of European cities, such as Glasgow, Billund, Delft, and Madrid. The number of participants again reflects the large interest in this topic. Similar to last year's Madrid workshop, the organizers expect to welcome 300 participants from over 30 countries. The workshop programme comprises 75 presentations and 25 posters. Over the years, the event has become an established

forum of discussions between industry representatives, project developers and academic/research institutions and has promoted the exchange between the different players in this area – which again is reflected in the programme. Important subjects are Grid Integration Studies in Europe and North America, Grid Code Issues, Offshore Grids and Offshore Grid Connection, Wind Forecast, Market Issues, Storage of Wind Power, Power System Balancing, Wind Turbine Performance Analysis and Modelling – also in relation to offshore transformers. Finally, a podium discussion will be dedicated to the experience gained in the UK regarding the integration of wind energy.

This year, we will introduce a new programme point: special sessions for EU projects SUPWIND (Decision Support Tools for Large Scale Integration of Wind) and Windgrid (Wind on the Grid: An Integrated Approach) as well as for IEA Task 25 which deals with the analysis and further development of the methodology to assess the impact of wind power on power systems in order to facilitate the highest economically feasible wind energy penetration within electricity power systems worldwide.

The Workshop's supporting programme will comprise both proven and novel components. According to workshop tradition, there will be a field trip following the actual workshop sessions. This year, we will visit the onshore HVDC converter station of the offshore wind farm Bard I as well as several German wind turbine manufacturers. Again, there will be also a workshop for wind forecast systems preceding the workshop on wind integration.

This year's novelty is a series of tutorials that provide participants with the opportunity to deepen their knowledge regarding wind turbine technology, the modelling of wind turbines and patent-related issues. These tutorials will take place at the Workshop venue on 13 October 2009 and will offer a Basic and an Advanced Track. Within the Basic Track, participants will be able to get an overview of wind turbine technology including basic principles, generator concepts, wind turbine designs and general grid code issues as well as an introduction to wind turbine modelling. The Advanced Track offers two half-day sessions with advanced modelling of wind turbines (Part 1 and Part 2). During another session, a patent authority will present an introduction and guidelines regarding patents for wind energy technology.

The complete workshop programme is available [here](#).

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Section 3 – News from members

CWE2010: Call for Abstracts

A call for abstract for a special session on "Wind Energy Structures", to be organised within the CWE2010 (5th Int. Symp. on Computational Wind Engineering) at Chapel Hill, North Carolina, USA, has been launched.

As a matter of fact, the event, which will be held on May 23rd – 27th, 2010, will include a session focusing on wind, civil and structural engineering issues associated with on-shore and off-shore wind towers, including dynamic behaviour, soil/structure interaction problems, fluid/wind/structure interactions, deep water wind energy structures, earthquake/wind interaction and load combination.

The deadline for the submission of abstracts is October 1st, 2009.

More information is available [here](#).

*The goal of this section of the newsletter is to **host articles developed directly by TPWind members**, so as to provide them with the opportunity to inform the Platform on their most recent achievements, plans, products, studies or R&D efforts.*

Every month, 2 to 4 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, together 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 September 25th at the latest (filippo.gagliardi@ewea.org; +32 2 546 19821).

To this purpose, the Secretariat would like to remember 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

September

FP7 Energy Research Information Day - 2010 calls

September 14, 2009 – Brussels, Belgium

In order to support the preparation of proposals for the new Calls for Proposals on energy under the FP7, the European Commission's Directorates-General for Energy and Transport and for Research are organizing an Information Day on September 14th in Brussels.

The aim of this event is to inform multipliers and potential applicants about the content and main legal as well as procedural conditions of the above-mentioned calls. There will also be sufficient time to answer any questions and to get in contact with other potential proposers and project partners.

More information is available [here](#).

European Offshore Wind Conference and Exhibition 2009

September 14 – 16, 2009 – Stockholm, Sweden

This will be the third edition of the bi-annual offshore conference and exhibition organised by the European Wind Energy Association (EWEA). The conference will examine how the development of offshore wind energy is progressing and will propose solutions to the many challenges still facing the industry. Further to that, practical steps forward to decision makers at EU and national levels will be presented. The conference will emphasise the importance of grid integration, industrial development and environmental and administrative considerations.

European Offshore Wind 2009, the world's biggest offshore wind energy event, will attract over 3,000 participants, coming to see over 260 of the industry's leading companies and take part in the 23 conference sessions with a total of 300 presentations.

More information is available [here](#).

Wind Power Expo 2009

September 22 - 24, 2009 – Zaragoza, Spain

Wind Power Expo represents one of the most important trade fairs in the South of Europe. This represents the 7th edition of this International Exhibition on Wind Energy, which gathered more than 600 exhibitors and more than 14.000 participants in 2008.

More information is available [here](#).

Eolica Expo Mediterranean 2009

September 30 – October 2, 2009 – Rome, Italy

This fair on wind power, organised in parallel with the 8th Conference on Wind Energy in the Mediterranean area, will be a unique opportunity to meet the most relevant stakeholders of the

sector. Further to that, the exhibition will take place in the framework of “Zeroemission Rome”, a major event involving many other renewable energy sectors (including PV, solar, biomass and ocean energy). More information is available [here](#).

October

8th International Workshop on Large-Scale Integration of Wind Power into Power Systems as well as on Transmission Networks for Offshore Wind Farms

14 - 15 October 2009 - Bremen, Germany

The 8th edition of this international forum is accompanied by the “3rd workshop on Best Practice in the Use of Short-term Forecasting of Wind Power” on October 13th.

More information is available [here](#).

China Wind Power 2009

20 - 22 October, 2009 – Beijing, China

Organized by the leading industry associations working in China, the 2009 Conference & Exhibition is the meeting point for all wind professionals working in China. The event will be relevant for both industry veterans and newcomers, with three days of conference sessions, an interactive exhibition of wind energy products and services, as well as numerous networking opportunities.

More information is available [here](#).

BWEA Annual Conference and Exhibition

21 - 23 October, 2009 - London, UK

Three days of conference sessions will address policy, development and technical aspects of UK onshore and offshore wind energy, wave and tidal energy and small wind systems. The accompanying exhibition will see over 150 companies display their products and services.

More information is available [here](#).

November

Integrating Wind Power in Bulgaria

10 November, 2009 – Sofia, Bulgaria

The fourth in a series of policy workshops in key emerging wind power markets in Europe. Organised by the European Wind Energy Association (EWEA) and the Bulgarian Wind Energy Association.

More information is available [here](#).

3rd European Renewable Energy Policy Conference

16 and 17 November, 2009 – Brussels, Belgium

The 3rd European Renewable Energy Policy Conference is organised by EREC (European Renewable Energy Council), umbrella organisation which counts as its members EWEA. This flagship policy conference will take place within the framework of the EU Swedish Presidency and will serve as a high-level political platform with highest visibility on the European energy political scene where industry leaders can meet policy-makers and express their future needs.

More information is available [here](#).

December

United Nations Climate Change Conference

7 - 18 December, 2009 – Copenhagen, Denmark

The Copenhagen conference will represent a key step in the global fight to climate change. Its aim will be to close with agreements on four political essentials, thereby creating a clarity the world – not least the financially struck business world – needs:

- How much are the industrialized countries willing to reduce their emissions of greenhouse gases?
- How much are major developing countries such as China and India willing to do to limit the growth of their emissions?
- How is the help needed by developing countries to engage in reducing their emissions and adapting to the impacts of climate change going to be financed?
- How is that money going to be managed?

The conference is open to:

- Government representatives;
- United Nations bodies;
- Observer Organizations;
- Press.

More information is available [here](#).

2010

European Wind Energy Conference and Exhibition 2010

20 - 23 April, 2010 - Warsaw, Poland

EWEC is widely regarded as the most professional, comprehensive and informative in the wind sector. It offers a unique opportunity to generate new business leads. EWEC is the only annual event which combines an extensive exhibition of the leading players with a conference covering every key aspect of the wind market – from technical and theoretical to policy and practice. Join over 7,000 key players in the wind industry for four days of networking and professional development.

Submit your abstract now to be a part of the conference programme. NB: The call for abstracts closes on 12 October 2009.

More information is available [here](#).

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