



Monthly TPWind Newsletter – August 2009

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Developed by TPWind Secretariat

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

Section 1 – Funding opportunities

European Institute of Technology (EIT)

Call deadline: 27 August 2009

The European Institute of Innovation and Technology (EIT) is to be a key driver of sustainable European growth and competitiveness. The mission of the EIT is to grow and capitalise on the innovation capacity of actors from higher education, research, business and entrepreneurship through the creation of highly integrated “Knowledge and Innovation Communities” (KICs). One of the first priorities of the EIT is therefore to select, by December 2009, the first KICs. They will be highly integrated, creative partnerships including education, technology, research, business and entrepreneurship that will produce new innovations and new innovation models and inspire others to emulate them.

The EIT has therefore published, on April 2nd, 2009, a “call for proposals” for selecting and designating the first two or three KICs.

The “call” will close on August 27th, 2009 and the total contribution from the Community budget to the EIT available for funding all KICs activities is expected to be around € 270 m for the period 2010 - 2013.

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

EUROGIA+

Call deadline: 2 September 2009

EUROGIA+ is a cluster of the EUREKA network, a decentralised intergovernmental initiative started in 1985. Its main aim is to enhance European competitiveness by supporting businesses, research centres and universities that take part in trans-national projects. It does so via numerous programs, notably the Clusters – a component of the EUREKA Strategic Initiatives. It addresses all areas of the energy mix, from fossil fuels to renewable energy technologies.

This “call” opens on 2 June and addresses all technology domains described in EUROGIA+ White Book. Starting with any given energy source (Oil & Gas, Biomass, Wind, Solar, Geothermal, etc), EUROGIA+ invites for industrial innovation that will address part or all of any path between the source and end user(s) via an energy vector (combustible, electricity or heat). The project must result in minimising the carbon footprint AND optimising the market value of the resulting product/process or service.

The consortium has to:

- Comprise 2 or more industrials from 2 different EUREKA member countries;
- Demonstrate technical innovation;
- Have strong commitment to commercial exploitation;
- The contribution from any given country and/or any given organisation must not exceed 66% of the total budget.

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

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).

TPWind is currently organizing a meeting on September 10th, 2009, in Brussels, 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. A representative of the European Commission 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).

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

European Wind Initiative (EWI)

Following TPWind 4th General Assembly, held in Brussels on May 13th and 14th, 2009, a new version of the EWI has been developed.

This version, which includes comments and inputs provided by members of the Platform, has been circulated within TPWind and sent to the European Commission on July 23rd.

The next steps in the development of the Initiative will therefore be the following:

- Define its managing structure and sources of funding (TPWind is expected to discuss these issues with the European Commission after the summer break);
- Present the EWI at the SET-Plan workshop to be held under the Swedish Presidency on October 21st and 22nd in Stockholm;
- Obtain the final endorsement of the EWI (probably at the EU Spring Council in 2010).

In the meantime, TPWind and SmartGrids (the European Technology Platform for grids) have initiated talks on how to avoid overlaps between the Grid Initiative and the grid component of the EWI. The first meetings, initiated and coordinated by the European Commission, have been held in Brussels in July.

Following the summer break, talks will resume: TPWind and SmartGrids are expected to agree on how to split grid activities between wind and grid operators in order to avoid duplication of efforts.

SmartGrids is currently engaging in similar negotiations also with other energy operators (e.g. with representatives of the Solar Initiative).

2009 European Offshore Wind Energy Conference and Exhibition

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.

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.

More information is available [here](#).

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Section 3 – News from members

DESERTEC

On July 13th, 12 companies signed a Memorandum of Understanding in Munich to establish a DESERTEC Industrial Initiative (DII), with the aim of analyzing and developing the technical, economic, political, social and ecological framework for carbon-free power generation in the deserts of North Africa.

More in details, the goals of DII will be the following:

- Drafting of concrete business plans and associated financing concepts;
- Initiating preparations for building a large number of networked solar thermal power plants, with the aim of producing sufficient power to meet around 15% of Europe's electricity requirements and a substantial portion of the power needs of the producer countries.

The founders of the DESERTEC Industrial Initiative are the following:

- ABB;
- ABENGOA Solar;
- Cevital;
- Deutsche Bank;
- E.ON;
- HSH Nordbank;
- MAN Solar Millennium;
- Münchener Rück;
- M+W Zander;
- RWE;
- SCHOTT Solar;
- SIEMENS.

The DII planning entity is to be established as a GmbH (limited liability company) under German law by 31 October 2009. It is envisaged that other companies will join the DII once the company has been established.

More information is available [here](#).

Double Magnitude Regulation in Power Control of Wind Turbines

ESDRAS Automatica, a Spanish company, is looking for partners (manufacturers of wind turbines and rotor blades in first place) in order to implement an R&D project with the support of EU or national grants.

The aim of the project will be to properly integrate the swept area of turbines as a variable for determining their outputs.

As a matter of fact, the output of wind turbines very much depends on wind speed, which is variable. Modern active control systems can optimise it through the variation of the attack angle of turbine blades. At low speeds, the angle is adjusted to maximise the extraction of power. On the other hand, the attack angle is tuned to discard the excess of power at high wind speeds. However, this approach has one fundamental limitation: if blade dimensions and airfoils are designed for high efficiency at low wind speeds, these characteristics create difficulties for controlling the turbine in strong winds.

The proposed project therefore aims to integrate a second controllable magnitude: the swept area. Through blade segmentation, dynamic pair formation and swept band overlapping; the total swept area may be dynamically regulated. Preliminary estimations suggest that a gain of more than 20% of annual energy yields would be achievable. Even more, this double control would enable a more stable generation of energy.

For more information, please contact Dr. Juan Antonio Talavera, R&D Coordinator of ESDRAS Automatica (jat@esdras.org; Tel: +34 916375351; Fax: +34 916376096).

CISM course on Environmental Wind Engineering and Wind Energy Structures

CISM, the International Centre For Mechanical Sciences, a non-profit organization established in 1968 to support research in robotics, biomechanics, environmental engineering and other fields, is organizing a course on “Environmental Wind Engineering and Wind Energy Structures”.

The course, which targets experienced professionals, is supported by the Italian Association for Wind Engineering (ANEV) and will address the positive and negative effects of wind on buildings and the urban environment.

The course, which will be held in English, will take place in Udine (Italy) from September 14th to 18th: applications will have to be submitted at least one month before the beginning of the course (i.e. on August 14th at the latest).

For more information, please contact CISM (cism@cism.it; +39 0432 248511; www.cism.it).

*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 August 21st 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

European Offshore Wind Conference and Exhibition 2009

September 14 – 16, 2009 – Stockholm, Sweden

This will be the 3rd 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.

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

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 6,000 key players in the wind industry for four days of networking and professional development. More information is available [here](#).

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