



Monthly TPWind Newsletter
February 2011

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Produced for TPWind by the European Wind Energy Association

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

Section 1 – Funding opportunities

7th Framework Programme for Research and Development

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

Call deadline: 7 April 2011

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

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

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

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

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

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

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

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

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

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

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

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.

Intelligent Energy Europe

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

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

The objective of IEE is to contribute to secure, sustainable and competitively priced energy for Europe, by:

- Fostering energy efficiency and the rational use of energy resources;
- Promoting new and renewable energy sources and to support energy diversification;
- Promoting energy efficiency and the use of new and renewable energy sources in transport.

The programme in particular contributes to the EU Energy 2020 Strategy and facilitates the implementation of the EU action plan for energy efficiency and of the Directive on the promotion of the use of energy from renewable sources.

The IEE programme covers action in the following fields:

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

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

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

In greater details, ALTENER aims at:

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

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

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

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

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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 detail, TPWind is supporting the European Commission in developing FP7 topics on wind energy that should be published in 2011. Further to that, it is supporting 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.

To this purpose, an ad-hoc meeting was held on 1 February between TPWind, the European Commission and relevant Member States to encourage joint-programming for implementing two activities of the 2011 EWI Work Programme:

- Increasing the reliability of wind turbines;
- Developing a new European Wind Atlas.

After this meeting, 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).

Since the publication of the EWI in 2009, concrete results have been achieved in its implementation, thanks to the publication of the following calls for proposals, all of which targeted urgent EWI activities:

- The 2009 European Energy Programme for Recovery (EPR), which allocated € 519 m to innovative offshore wind farms;
- The 2009 FP7 Energy call for proposals, which included a topic focusing on cross-sectoral approaches to the development of very large offshore wind turbines;
- The 2010 FP7 Energy call for proposals (see section 1 of this newsletter for more information on this funding opportunity), which includes the following relevant topics:
 - Development of design tools for offshore wind farm clusters – this topic focuses on wake effects and virtual power plants;
 - Demonstration of innovative offshore wind electricity generation structure;
 - Innovative tools for the future coordinated and stable operation of the pan-European electricity transmission system, which is also relevant to the European Electricity Grid Initiative (EEGI). Both the EWI and the EEGI are EU Industrial Initiatives rooted in the 2007 Strategic Energy Technology Plan (SET-Plan);
 - Innovative strategies and tools for the reliability assessment of the pan-European electricity transmission network, also relevant to the EEGI;
 - Storage and balancing variable electricity supply and demand, also relevant to the EEGI.
- The 2009 Intelligent Energy Europe (IEE) call for proposals, which provided funding also for projects focusing on offshore spatial planning;
- The 2010 IEE call for proposals, which focused also on streamlining authorisation and grid connection procedures as well as on strategic actions to analyze and monitor policies, markets, costs and benefits of renewable electricity;
- The 2011 IEE call for proposals (see section 1 of this newsletter for more information on this funding opportunity), which will provide funding also to projects focusing on social acceptance of renewables and smart management of grids.

The full text of the EWI is available here: http://ec.europa.eu/energy/technology/set_plan/set_plan_en.htm

The 2010 – 2012 EWI Implementation Plan is available here (the 2011 EWI Work Programme is based on this document): http://ec.europa.eu/energy/technology/initiatives/initiatives_en.htm

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

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Section 3 – Members’ news

EU will exceed renewable energy goal of 20% by 2020

The EU 27 will exceed its target of meeting 20% of its gross final energy consumption from renewable sources by 2020. On 20 January the European Wind Energy Association published its analysis of the 27 National Renewable Energy Action Plans, submitted by the EU Member States to the European Commission.

“Taken together the Action Plans show that the EU-27 will meet 20.7% of its 2020 energy consumption from renewables”, said Justin Wilkes, Policy Director of the European Wind Energy Association (EWEA).

The National Action Plans show that one third (34%) of EU electricity demand will be supplied from renewables by 2020.

Wind energy will generate 14% of Europe’s total electricity demand in 2020 (494 TWh from 213 GW installed capacity), more than any other renewable source, up from 4.2% in 2009. Ireland will be the country with the highest wind energy penetration level at 36.4% of its total electricity demand, followed by Denmark at 31%.

Fifteen Member States plan to exceed their national target, led by Bulgaria at +2.8% above their target, Spain (+2.7%), Greece (+2.2%), Hungary (+1.7) and Germany (+1.6%). Ten Member States will meet their national targets, and just two Member States, Luxembourg (-2.1%) and Italy (-0.9%), have informed the European Commission that they envisage using the cooperation mechanisms to meet their national targets.

“It is very encouraging that 25 of the 27 EU countries intend to either exceed or meet their target”, said Wilkes. “This shows the vast majority of EU countries clearly understand the benefits of deploying renewable energy technologies, particularly wind power.”

The 34% of EU electricity demand met by renewables in 2020 is made up of 14% from wind energy (10% onshore, 4% offshore), 10.5% from hydro, 6.6% from biomass, 2.4% from solar photovoltaic, 0.5% from CSP, 0.3% from geothermal and 0.1% from ocean.

Renewable energy share in percentage per Member State:

Country	National binding target established by EU Directive 28/2009/EC	NREAP target	above / below Target
Austria	34%	34.2%	+ 0.2 %
Belgium	13%	13%	0%
Bulgaria	16%	18,8%	+ 2.8%
Cyprus	13%	13%	0%
Czech Republic	13%	13.5%	+ 0.5%
Denmark	30%	30.4%	+ 0.4%
Estonia	25%	25%	0%
Finland	38%	38%	0%
France	23%	23%	0%
Germany	18%	19.6%	+ 1.6%
Greece	18%	20.2%	+ 2.2%
Hungary	13%	14.7%	+ 1.7%
Ireland	16%	16%	0%
Italy	17%	16.1%	- 0.9%
Latvia	40%	40%	0%
Lithuania	23%	24%	+ 1%
Luxembourg	11%	8.9%	- 2.1%
Malta	10%	10.2%	+ 0.2%
Netherlands	14%	14.5%	+ 0.5%
Poland	15%	15.5%	+ 0.5%
Portugal	31%	31%	0%
Romania	24%	24%	0%

Slovakia	14%	15.3%	+ 1.3%
Slovenia	25%	25.3%	+ 0.3%
Spain	20%	22.7%	+ 2.7%
Sweden	49%	50.2%	+ 1.2%
United Kingdom	15%	15%	0%

Source: EWEA analysis of the 27 NREAPs

Electricity production in 2020, sorted by quantity of Renewable Energy:

Country	2020 Gross consumption of electricity (in Terawatt hours, TWh)	2020 Electricity production from Renewable Energy (TWh)	2020 Electricity production from wind energy (TWh)
Germany	561.8	216.9	104.4
Spain	375.2	150.0	78.2
France	545.5	148.0	57.9
UK	376.7	117.0	78.3
Italy	374.7	98.9	20
Sweden	154.6	97.2	12.5
Austria	74.2	52.4	4.8
Netherlands	135.8	50.3	32.4
Portugal	64.5	35.6	14.6
Finland	101.6	33.4	6.1
Poland	169.8	32.4	15.2
Romania	73.7	31.4	8.4
Greece	68.5	27.3	16.8
Belgium	110.8	23.1	10.5
Denmark	37.8	19.6	11.7
Ireland	32.7	13.9	11.9
Czech Republic	84.1	12.1	1.5
Slovakia	33.3	8.0	0.6
Bulgaria	36.6	7.5	2.3
Slovenia	15.6	6.1	0.2
Hungary	51.4	5.6	1.6
Latvia	8.7	5.2	0.9
Lithuania	13.9	3.0	1.3
Estonia	10.9	1.9	1.5
Cyprus	7.4	1.2	0.5
Luxembourg	6.6	0.8	0.2
Malta	3.1	0.4	0.2
EU 27	3529.4	1199.0	494.7

Source: EWEA analysis of the 27 NREAPs

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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 18 February at the latest (filippo.gagliardi@ewea.org; +32 2 2131813).

The Secretariat would like to remind all readers that this newsletter is sent to all TPWind members, to those included in the reserve lists of the Platform as well as to selected EC and EWEA representatives (approximately 300 people in total).

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Section 4 – Events

March 2011

TPWind 7th General Assembly

3 March, 2011 – Brussels, Belgium

The 7th 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 7th 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; +32 2 2131813).

EWEA 2011 (formerly known as EWEC): Europe’s premier wind energy event

14-17 March 2011 - Brussels, Belgium

Includes the following key side-events:

- The European Wind Initiative (EWI) and the European Wind Energy Technology Platform (TPWind), Monday 14 March 2011 from 16:00 to 17:30 – Room 1122;
- Grid integration of wind power: the TWENTIES project, Tuesday 15 March 2011 from 11:00 to 13:00 – Room 1101A;
- Offshore developments: Carbon Trust/EWEA event, Wednesday 16 March 2011 from 16:00 to 18:00 – Room 1101A.

All side-events are open to all registered delegates and exhibition visitors. Further information will be available on the [EWEA 2011 website](#) in the coming days.

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 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 13,000m², 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

Full information: 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

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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.