



Integrated Research Programme on Wind Energy

Project acronym: **IRPWIND**
Grant agreement n° 609795
Collaborative project
Start date: 01st December 2013
Duration: 4 years

Minutes of Advisory Board meetings and Action list on follow-up on advises 2

Work Package 2 - Deliverable number 2.16

Lead Beneficiary: DTU
Delivery date: 11 December 2015
Dissemination level: PU



The research leading to these results has received funding from the European Union Seventh Framework Programme under the agreement 609795.

Document Information

| Version | Date | Description | | |
|---------|------------|--------------------|--------------------|--------------------|
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Definitions

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| EERA | European Energy Research Alliance | | |
| JP | Joint Programme | | |
| JP WIND | Joint Programme on Wind Energy | | |
| IRP | Integrated Research Programme | | |
| TP | Technology Platform | | |
| WP | Work Package | | |

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1. Participant list

EERA JP WIND Management Board:

Hans Jørgensen, DTU, John Tande, SINTEF, Peter Eecen, ECN, Denja Lekou, CRES, Claudia Calidonna, CNR, Anna Maria Sempreviva, DTU, Mattias Andersson, DTU, Antonio Ugarte, CENER, Søren Knudsen, DTU, Peter Hauge Madsen, DTU, Scott Otterson Fraunhofer IWES

EERA JP WIND Advisory Board

Simon Watson, Loughborough University, Antoni Martinez, KIC INNO Energy

2. Executive Summary

At the second IRPWIND Advisory Board meeting most discussions were concentrated on how the Advisory Board ideally can advise the IRPWIND programme. We discussed how we may change the logic of the board from purely scientific to focussing more on the interaction between IRPWIND and the industry. This being so, the Advisory Board will also be different in terms of representatives henceforward.

For these reasons the collaboration between IRPWIND and the industry was an important element of this meeting, where the Industry-EERA JPWIND side event during the IRPWIND conferences hopefully will set the scene for future collaboration.

3. Agenda

1. Status since last meeting

Purpose: To give the IRPWIND Advisory Board the last update of the development in IRPWIND

2. Status on ongoing EERA JPWIND EU projects

Purpose: To give IRPWIND Advisory Board the last update of the ongoing EERA JPWIND EU projects.

3. Follow up on the IRPWIND review (for the period March 2014 to February 2015)

Purpose: Present the plan for following up on the review report for the first period of IRPWIND

4. Discussion on the IRPWIND conference

Purpose: Discuss and share thoughts on the 2nd IRPWIND conference held in Amsterdam on 28th and 29th of September 2015.

5. Follow up on the Industry-EERA JPWIND side event during the IRPWIND conference
Purpose: Revitalise the collaboration with the European wind industry after funding to TPWIND has stopped.
6. IRPWIND KPIs
Purpose: Define starting values

4. Minutes of Meeting

Status since last meeting

The coordinator of IRPWIND, Peter Hauge Madsen, gave a short status on the integrated research programme. He explained to the Advisory Board that IRPWIND and EERA JPWIND are quite similar in scope and content. JPWIND carries out IRPWIND, which is the activity funded by EU.

He explained the development in the Joint Programme and underlined the fact that we now have 7 Sub Programmes and potentially soon an 8th Sub Programme dealing with cold climate issues.

We are now over 40 members in EERA JP WIND and more institutions are continuously showing interest in the programme. The Management Board proposes to have an alternative to our general EERA JP Wind guidelines, when responding to EU calls for proposals. We will discuss our future membership and governance structure and the potential for introducing a cluster approach at the next Steering Committee meeting to be held in November in Paris. It is the aim that we henceforward shall allow for more freedom, when collaborating in the auspices of EERA JPWIND.

It is also the intention that the IRPWIND mobility programme shall be more flexible in the future. We hope that the next mobility call can be open for 3rd parties and the travel periods for this call will be more flexible.

The role of the IRPWIND Advisory Board was also discussed. The Management Board proposes to change the role of the Advisory Board from a mainly scientific board to focussing more on the interaction between IRPWIND and the industry..

Status on ongoing EERA JPWIND EU projects

Peter Hauge gave a status on the ongoing EERA JPWIND EU projects. He also emphasized how these projects bring added value to the IRPWIND programme and how the IRPWIND Advisory Board can contribute to the development of EERA JPWIND through these EU projects.

EERA-DTOC is a good example on how to utilise national projects in a European funded project. The DTOC (Design Tool for Offshore wind farm Cluster) project has resulted in a spin-off software called Wind & Economy that optimises wind farm design for cost of energy, taking into account the wind climate of clustering wind farms, wake information and grid design considerations. The design tool is now commercially available.

WindScanner.eu is a national idea from Denmark brought into the European agenda with the ambition of creating a European WindScanner infrastructure. The 3 year ESFRI preparatory phase project has just ended and the countries involved in the project are currently investigating the possibility to obtain funding for establishing national nodes. EERA JP WIND

will have an important role during the interim phase, where no national or European funding is applicable.

NEWA

The aim of the New European Wind Atlas is to predict wind conditions. For doing so we need better models. Different measurements and experiments in various terrains and conditions shall bring us closer in creating a new European wind atlas. It has been decided that data from this project shall be absolute open after the project.

Follow up on the IRPWIND review

IRPWIND has been reviewed for the period from March 2014 to February 2015. The overall remarks and recommendation from the reviewers were the following:

- Tighten management of the entire programme.
- All documentation to be guided/reviewed at an early stage by WP1.
- All documents shall include executive summaries preferably written by the coordinator to provide some coherence to the group of programme reports.
- Use the project to show the benefits of the integrated work.
- Quality assurance shall be improved.
- Highlight how the various deliverables can contribute to further integration.

At the meeting it was discussed how to follow up on the comments. These can be found in the decision list in chapter 5.

Discussion on the IRPWIND conference

All participants at the meeting agreed that the IRPWIND conference in general went well. Following reflection on the conference were presented at the meeting:

- Too many parallel sessions
- Shorter time slots needed
- Number of industrial participants was proper this year.
- Abstracts can potentially be included in the yearly conference in 2016

Follow up on the Industry-EERA JPWIND side event during the IRPWIND conference

A new initiative at the IRPWIND conference for 2015 was to have a dedicated session dealing with the relation between EERA and the industry. A current major task is to revitalise the collaboration between the research community and the industry after the funding to TPWIND has stopped. KIC-INNO Energy can play a major role in this revitalisation as match maker and provider of experts within the fields of standards, Intellectual Property Rights and market analysis.

IRPWIND KPIs

Mattias Andersson, DTU, presented the work done in IRPWIND to define KPIs. There has been communication back and forth regarding EERA and the European Commission. What the EC is missing is some realistic starting values for the defined KPIs. At the meeting it was discussed how we describe such starting values appropriately.

5. Decision list

- Expand and reorganize the IRPWIND Advisory Board
 - o **Responsible:** EERA JPWIND Management Board
 - o **Time line:** November/December 2015

- Adapt general EERA JPWIND guidelines
 - o **Responsible:** EERA JPWIND Steering Committee
 - o **Time line:** November/December 2015

- Adapt membership and governance structure
 - o **Responsible:** EERA JPWIND Steering Committee
 - o **Time line:** November/December 2015

- Make IRPWIND mobility programme more flexible
 - o **Responsible:** DTU, CNR
 - o **Time line:** January 2016

- New Sub-programme on Cold Climate to be elaborated.
 - o **Responsible:** EERA JPWIND Steering Committee
 - o **Time line:** March 2016

- Arrange InCo workshops with USA and Japan in 2016
 - o **Responsible:** ECN, DTU
 - o **Time line:** Spring 2016

- Indicate the starting and final values for the KPIs for IRPWind agreed with the Commission during the contract negotiation for the IRPWIND.
 - o **Responsible:** IRPWIND Work Package leaders
 - o **Time line:** November 2015

- Revitalise the collaboration between EERA JPWIND and EWEA
 - o **Responsible:** EERA JPWIND Management Board
 - o **Time line:** Ongoing

- Tighten management of the entire IRPWIND programme
 - o **Responsible:** IRPWIND Secretariat
 - o **Timeline:** Ongoing

- Define role for KIC-INNO Energy as match maker between the research community and industry
 - o **Responsible:** EERA JPWIND Management Board
 - o **Timeline:** April 2016