



IRPWind

Integrated Research Programme on Wind Energy

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Definitions

Acronym	Description
EERA	European Energy Research Alliance
JP	Joint Programme
IRPWIND	Integrated Research Programme

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Executive Summary

In the second year of the IRPWIND project (March 2016 - March 2017), 4 events were used as dissemination events for the industry. These were the IRPWIND annual conference (Amsterdam, Sept. 2016), EERA JP Wind's Advisory Board meeting (Amsterdam, Sept. 2016), the event organised at WindEurope Summit 2016 (Sept. 2016) and the Deepwind 2017 conference. The first three of those have provided important feedback from the industry.

The subjects of discussions ranged from knowledge and results of European research projects, to transfer of knowledge between industry and academia and across the entire wind energy sector. The main aim of these events is to gather feedback from the industry on how to better exploit synergies between researchers and industry representatives, and let the latter know about the outcome and developments of the IRPWIND and other EERA JP Wind projects.

In particular, the last IRPWIND dissemination event for the industry was organised in Hamburg, together with the Wind Energy Summit of WindEurope (September 2016). The event took the form of a match-making session where EERA JP Wind and IRPWIND promoted the Technology Transfer Platform and the intellectual property (called "Assets") in front of a good number of industry representatives. Tagging along with existing industry-focused events has proven to be a successful strategy.

IRPWIND constantly looks for ways to better reach out and attract industry to its events, with a view of establishing a continuous dialogue and exchange of information across relevant research and industry-focused stakeholders.

The project is keen on making sure that participants to all the EERA JP Wind events have an opportunity to provide useful feedback on the results of IRPWIND and to EERA JP Wind as a whole. Therefore, IRPWIND deems it very relevant to have open discussions, surveys and other ad-hoc follow-ups with the participants.

Introduction

Task 4.2 of the IRPWind project aims at organising a dedicated event, for the industry to be informed about and get involved in the activities of EERA JP Wind. The event looks for opportunities to cooperate more with the industry, for example by starting new (European or national) projects and/or by sharing data.

The IRPWind project's technical topics are normally disseminated during dedicated IRPWind conferences, while during industry-focused events the project results are presented in a less technical way so to be understood by a wider range of industry stakeholders (who are not necessarily working on research aspects). The strategic topics of IRPWind aiming for further intensifying the cooperation with the industry are discussed at dedicated side events at existing conferences and summits. This is the most efficient way to appeal to the industry and its packed agenda.

1. Dissemination topics

IRPWind aims at disseminating both European or national-project technical results as well as the general EERA integrated research approach. Projects under the EERA JP Wind umbrella are AVATAR, INNWIND, EERA-DTOC, Windscanner.eu.

Communicating about the overarching EERA integrated approach conveys a more strategic message: the importance of a growing integration of research facilities and other efforts to shorten the time for technology and knowledge resulting from R&D activities to enter the market.

The link between the industry and research institutes is reinforced by WindEurope's presence in the project. It has the role to attract the right participants and help convey EERA JP Wind's strategic messages effectively.

2. Dissemination events P3

The Description of Work asks for a dedicated annual dissemination event for the industry, preferably linked to the yearly WindEurope (previously: EWEA) Annual and Offshore Wind Conferences.

Table 1 below represents a summary of the main 2016 dissemination events. A complete list of EERA JP Wind related dissemination activities for the industry is kept in the Plan for Use and Dissemination of the Foreground (PUDF), last updated on 24 March 2017 (D.4.17).

Table 1. IRPWIND presenters at dissemination events

EERA JP Wind presentation	
Event	Presenter
IRPWIND conference 2016	See report on D. 4.03, Appendix C
EERA JP Wind AB meeting	Martijn van Roermund (ECN) – dissemination channels
WindEurope Summit 2016	Martijn van Roermund (ECN) – IRPWIND Aiden Cronin (Siemens) – ETIP's SRA Sjoerd Wittkampf (ECN) – EERA's Tech Transfer Platform
Deepwind 2017	https://www.sintef.no/projectweb/eera-deepwind2017/presentations-and-posters/

Appendix A shows the industrial attendees for each event. The IRPWIND conference 2016 shows 14 industrial representatives, from 13 different companies. The Advisory Board of EERA JP Wind has 4 industrial participants. The WindEurope Summit 2016 event counted 16 and the Deepwind conference 2017 12 representatives from industry.

IRPWIND annual conference 2016

The report of the IRPWIND conference in 2016 can be found in deliverable D4.03.

A total of 46 presentations were held of which 9 were in plenary sessions. During the conference, each presentation was followed by a 10-minute discussion session. These discussions are not reported in this document but proved to be very productive.

To get feedback on the perceived effectiveness of EERA JP Wind's efforts to bring R&D results to the market, an online (anonymous) survey was launched soon after the event took place. In Appendix B, is the list of the answers to the question: "What would be your suggestion to further improve this process [of bringing EERA JP Wind R&D efforts to the market]?".

EERA JP Wind AB meeting

On September 21st, the Advisory Board meeting of EERA JP Wind took place in Amsterdam. Martijn van Roermund, leading IRPWIND WP4 at the time, took the opportunity to ask the participants for their preferred information feeds.

The answers below were received as an answer to the following question: "where would you search for new technology developments within EERA JP Wind?":

- Search EERA JP Wind through a search engine
- Visit conferences such as the IRPWIND conference
- Use personal contacts/network and collaboration experience
- Attend the Advisory Board meeting (for a more strategic level)
- Use IP search tools (patents/publications + key words)

General suggestions for EERA JP Wind:

- Look for a excellence overview per EERA JP Wind member
- Utilize ETIP as EERA JP Wind's partner role to all participants

- Strive for unity: present work being an EERA JP Wind member rather than DTU/ECN/...
- Feed information to the right people in the industry
- Increase the frequency of contact moments with ready to use engineering solutions

Subsequently the concept of "Technology Transfer Platform", also called "IP repository", was presented to the project Advisory Board. As mentioned above, the platform allows for transfer of knowledge between research institutions (who are publishing their research novelties, so called 'Assets') and industry (who is able to see those Assets and contact the result owners). The value of such a platform for data and knowledge exchange was stated during the AB meeting, as well as the side event at WindEurope Summit 2016.

WindEurope Summit Hamburg 2016

On September 28th, EERA JP Wind organised an event at the WindEurope Summit 2016, involving also the European Technology and Innovation Platform on Wind (ETIP Wind). The goal of the event was to inform the audience on the tasks of EERA JP Wind and how EERA JP Wind relates to the European Academy of Wind Energy and ETIP Wind. It proved to be also an excellent moment to receive feedback on the initiative of setting up the Technology Transfer Platform. Furthermore, the presence of ETIP Wind's Chair, Mr. Aidan Cronin from Siemens Wind Power, helped conveying the message on importance of R&D alignment in the wind sector.

The presentation of the technology transfer platform was followed by a match-making session, where the audience engaged with one of the technology transfer experts (TTEs) of several EERA JP Wind partners that were present and had already uploaded their 'Assets' on the Platform.



Figure 1. ETIP Wind's chair Aidan Cronin speaking with IRPWIND's project officer Matthijs Soede during EERA JP Wind's side event at the WindEurope Summit 2016.

The general feedback that followed the event was that a technology transfer platform is very welcome, especially because it allows SME's to gain access to R&D most recent developments and results. Furthermore, the match-making session spawned intense discussions, mainly technical. These led to follow up contacts (ECN) as well as candidates looking to join EERA JP Wind to benefit from an initiative such as a Technology Transfer Platform.

Various IRPWIND partners are currently uploading new Assets to the Technology Transfer Platform. This is done under the IRPWIND's task 4.4 Network of TTEs.

WindEurope's conferences in London in June 2017 and Amsterdam in November 2017 will see the presence of IRPWIND and EERA JP Wind, to make sure that the Technology Transfer Platform and other project-related initiatives receive consistent industry exposure.

Deepwind 2017

The EERA JP Wind Deepwind conference organised by SINTEF in Trondheim is a 3-day conference with a R&D oriented programming. The industrial participation is both embedded through plenary presentations as well as through the scientific committee that evaluated the submitted papers and posters.

No specific event was organised, but the presence of EERA JP Wind at the conference was profound as can be seen on the website provided in Table 1. The industrial representation through 12 presentations at the conference can be found in Appendix A.

3. Conclusions

As stated in the previous periodic reports, the challenge remains to attract high numbers of industrial audience, even if there are many signs of improvement. We believe that presenting the project content on different occasions, such as the IRPWIND and Deepwind conferences, represents a good choice.

This allows for more strategic discussions to take place during the WindEurope annual conferences, that attract higher numbers of industry representatives. These events take place with the presence of EERA JP Wind's TTE's.

The Technology Transfer Platform has a huge potential to become a useful instrument for the industry and a powerful showcase for the researchers. In this last year of the IRPWIND project, maximum efforts will be put on activities of promotion of this platform across broad stakeholders' networks and on *ad-hoc* occasions, such as the dissemination events listed in this report.

Appendix A. Participation list dissemination events

Industrial presence (1/2)			
Event	Organisation	Sector	Participant
IRPWIND conference 2015			
	Suzlon Energy Ltd.	Wind turbine manufacturer	Broersma
	Siemens Wind Power A/S	Wind turbine manufacturer	Cronin
	Phoenix Contact Electronics	Parts supplier	Dyck
	GO-ELS Ltd	Consulting	Golightly
	EA Energy Analysis	Consulting	Hethey
	Nuon/Vattenfall	Utility/owner	Koutoulakos
	Siemens Wind Power A/S	Wind turbine manufacturer	Loeven
	Stiesdal A/S	Wind energy pioneer	Stiesdal
	Gemini Wind Park	Developer/owner	Van Hemert
	GAMESA	Wind turbine manufacturer	Villanueva
	DONG Energy	Developer/owner	Vis
	GE Global Research	Wind turbine manufacturer	Von Terzi
	Vestas Wind Systems A/S	Wind turbine manufacturer	Backer
	1-Tech SPRL	Consulting	Hanssen
EERA JP Wind Advisory Board meeting			
	Siemens	Wind turbine manufacturer	Cronin
	GE	Wind turbine manufacturer	Von Terzi
	Gamesa	Wind turbine manufacturer	Villanueva
	Vestas	Wind turbine manufacturer	Backer
WindEurope Summit 2016			
	InterTrust	Standardisation	Lacy
	VCE	Consulting	Furtner
	DWD	Weather services	Leiding
	Heljo Ind	Drone inspection	Perenz
	Ashikaga	Institute of technology	Mitsumasa
	UGent	Education	De Pauw
	EDF	Utility	Joos
	Siemens	Wind turbine manufacturer	Eisenberg
	PPG	Coatings	Holm
	DNV GL	Standardisation	Argyriadis
	Dong Energy	Developer/owner	Paschke
	Toko University	Education	Takeuchi
	AIST	Research centre	Shimada
	Picanol	Weaving machines	Peeters
	Vattenfall	Utility/owner	Baier
	LM Windpower	Blade manufacturer	Arce Leon

Industrial presence (2/2)

Event	Organisation	Sector	Participant
Deepwind 2017			
	Statoil	Developer/owner	Johansen
	IFP Energies Nouvelles	Research centre	Bozonnet
	Ventolines BV	Consultancy	Koppenol
	Kjeller Vindteknikk	Wind measurement/analysis	Ágústsson
	DNV GL	Standardization	Vita/Walter
	Maintech	Consultancy	Sundal
	Fedem Technology/SAP SE	IoT	Zwick
	Ramboll	Substructures	Ziegler/Mahta
	ESTEYCO SAP	IoT	Counago
	Siemens Wind Power	Wind turbine manufacturer	Cronin
	SkyWind	Wind turbine manufacturer	Richert
	Statnett	Grid	Ødegård

Appendix B. Feedback IRPWind conference

"What would be your suggestion to further improve this process [of bringing EERA JP Wind R&D efforts to the market]?".

- a. more funding for basic research and industrial development
- b. more contact with industry, more collaboration between EERA partners in view of research projects
- c. more frequently messages, better coordinated
- d. strategic alignment with industry, EU national efforts and US efforts to accelerate outcome or gaining critical mass on a subject
- e. no recommendations as I am new to EERA wind
- f. currently no. Industry is well represented in IRPWIND Meetings which is important. Industry presentations and panel discussions are promoted and this shall be maintained.
- g. It is already doing the necessary effort.
- h. common objectives
- i. involve industry in research projects
- j. it is efficient (conference is done: YES), but to become more effective (finding and connecting partners) IRPWIND can take a more active role such a leading role for creating specific partnerships particularly when the need is expressed.
- k. I propose to iterate the IRPWIND experience in the future with possible extension of the Partnership to new Partners (as an example Politecnico di Milano-POLIMI is not partner at the moment being a recent member of EERA, but very active as partner of the two EU H2020 Projects LIFES50+ & CL-WINCON)
- l. try to get more industry present.
- m. the short term delivery of solutions to the market are done by companies, which sometimes is done in collaboration with RTOs/universities. But never via an Alliance/Network. The added value is in other areas.
- n. no suggestions
- o. no
- p. –
- q. make communications simpler and more into mainstream media.
- r. direct topic oriented meetings with industry
- s. difficult to say. Some of the developments resulting from research will never be implemented, but some of them can be implemented very fast. So, the effort is clearly worth.
- t. involve industry more intensive in IRP conferences
- u. maybe include list of publications on the progress
- v. –
- w. if EERA is focused on applied research then industry participation would be accelerating bringing EERA JP Wind efforts to the market
- x. –

- y. more engagement by the Management Board for an active participation of all members
- z. outside world will probably not understand the difference between IRPWIND and EERA JP Wind.
- aa. better open window for the market where they can see who offers which service... but takes a lot of effort to get into the database.
- bb. better cooperation with industry
- cc. I do not have any
- dd. add links to publically available deliverables
- ee. I have only been very little involved. But I appreciate that the industry is invited and involved in conferences and I think that contributes to speeding up the efforts.
- ff. even closer contact between research and industry
- gg. reduce politics and increase work
- hh. more coverage of results and lobbying policy makers
- ii. none
- jj. more publicity
- kk. to date it's mainly an effort of the research community, I and I would like to see more of 'whose feet are in the mud'.
- ll. increase the industry involvement in EERA JP Wind projects.
- mm. the WP managers are too busy to do a good job. Selecting persons having fewer positions would help.
- nn. Collect industry needs on an individual basis (as they are likely to speak more
- oo. if competitors are not present), which can be more than what is stated in ETIP SRIA, organize and prioritize such needs, and try to satisfy them by designing collaborative R&D projects, either EC or MS (i.e Eureka) funded.
- pp. no further suggestions
- qq. more meetings.
- rr. try to involve more industrial partners in IRPWIND conference
- ss. involving more often stakeholder to joint exchanges
- tt. more information flow and networking opportunities
- uu. industry collaborate with individual organizations not an entire alliance, so difficult. But conference is nice for overview and networking
- vv. more for general public publications - results from collaboration on linkedin etc.
- ww. try to link industry and research partners in more effective manner
- xx. no
- yy. always good to focus on application of results
- zz. closer cooperation with industry. More intimate relation with ETIP.