



EUROPEAN TECHNOLOGY & INNOVATION
PLATFORM ON WIND ENERGY

Executive Committee meeting minutes

By ETIPWind secretariat

04 April 2019

etipwind.eu



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1 Meeting details

Venue: Bilbao Exhibition Centre, Azkue Kalea, 1, – North Entrance, Room 1.A (5th floor).

Date & time: 04 April 2019, 09:30 – 13:00.

2 Introduction

As part of the grant agreement, ETIPWind will organise several meetings and workshops to strengthen synergies and alliances with other European technology & Innovation Platforms and trade associations with an invested interest in wind energy power production.

On 21 February 2019 the secretariat organised a workshop to align efforts by various trade associations and technology platforms on the topic of (renewable) power-to-x. The aim was to inform representatives of the various sectors on the decarbonisation pathways and to explore the potential for indirect electrification of non-energy uses (processes and products) in carbon-intensive industries based on wind energy. The full report of the workshop can be found [here](#).

ETIPWind is part of ETIPSNET Governing Board, but progress there is slow. The Executive Committee chair suggested to engage more directly with ENTSO-e. Its secretariat is more open to our input and we have good relations with their Secretary General Laurent Schmitt. In addition, the CEO of WindEurope has been elected as chair of the ENTSO-e advisory council.

The Executive Committee attended a high-level launch event of the latest IRENA report on integration of high shares of renewables. ETIPWind was the only ETIP on the panel. See [this article](#) on the ETIPWind website with all the links.

3 Update from SETWIND

SETWIND is a new project in support of the SET-Plan implementation plan on offshore wind, which was agreed upon last year. The goal of the project is to support and facilitate the meetings of the relevant member states' representatives and to mobilise and align their contributions.

The SETWIND project will aim to align national contributions using a bottom-up approach rather than setting large institutional targets (top down). The process would work by pooling various national and regional funded projects to indirectly deliver on large cross border research projects.

Another important outcome of the SETWIND project will be the identification and preparation of sector wide lighthouse projects. These are projects that would rally the sector together with a large (man on the moon like) objective. The project partners will start working on initial ideas for lighthouse projects soon and this in close collaboration with ETIPWind.

SETWIND will also support the develop a roadmap that will mirror the pillars of the 2018 ETIPWind Strategic Research & Innovation Agenda, but with a focus on nurturing academic excellence and funding basic and fundamental wind energy research and science.

4 Update from the Advisory Group meeting

Aidan Cronin and Mike Anderson gave their feedback from the Advisory Group meeting held on 01 April. They gave following suggestions to the secretariat and Executive Committee to facilitate the discussions in the Advisory Group:

- Have the Executive Committee prepare and brief the upcoming Advisory Group meetings to extract clear advice and guidelines.
- Install a more rigid governance structure for the Advisory Group.
- Reduce the discussions on policy and politics.
- Prepare a 1 page document highlighting the expected outcomes of the platform in general and the two groups in particular.

The Executive Committee agreed to take time at their next meeting (June, Cork) to set the agenda for the Advisory Group meeting, which could be in September or November (depending if there is enough availability for the proposed September meeting). Existing publications and reports (such as When Wind Goes Digital) should be taken as the basis for a rolling agenda.

During its meeting the Advisory Group also formulated three requests to the Executive Committee, all of which were accepted by the Executive Committee:

- To prepare a fact-sheet on blade recycling in 2019.
- To identify 3 components suited to standardisation (and in what way). This can be part of the Technology Roadmap.
- To explore the various solutions for seasonal storage/power-2-x in Europe. With the possibility of producing a dedicated fact-sheet on this topic in 2020.

5 Update from ETIPWind secretariat

In March negotiators from the European Parliament and the Council have reached a provisional deal on Horizon Europe, the EU's research & innovation funding programme for 2021-2027.

The agreement includes a hard commitment to allocate at least 35% of the budget to climate action related research and innovation. The total budget of the programme won't be agreed before the end of 2019, as it depends on the wider negotiations on the EU's budget for 2021-2027. Initially the commission proposed a budget of €94.1 billion for Horizon Europe. The European Parliament calls for €120 billion.

Horizon Europe will include a number of new features including a fast track to innovation which will see grants of maximum 2.5 million EUR awarded in just 6 months' time. The instrument will be suited to small consortia of only up to 6 participants. In addition, there will be new cross cutting priorities called "missions". 5 mission areas have been defined in the deal reached including "adapting to climate change" and "climate neutral cities".

For more information see [the news article](#) on the ETIPWind website.

6 Fact-sheet

The Secretariat gave a presentation on the fact-sheet that the platform will deliver in 2019. The fact-sheet is due end of September and its purpose is to disseminate R&I topics for the wind energy sector. Target audience of the document will be (ranked in order of primacy):

1. Policy makers at research, energy and environmental departments at European and national/regional level;
2. Technical experts of the chemicals, waste and other sectors;
3. Wider wind energy community.

The Secretariat presented the process for developing the fact-sheet, which involves both the Executive Committee and the Advisory Group. Both groups will contribute to the conceptualisation and finalisation of the document. An indicative a process flow-chart and a timeline can be found below.

Figure 1: Process flow-chart for fact-sheet 2019

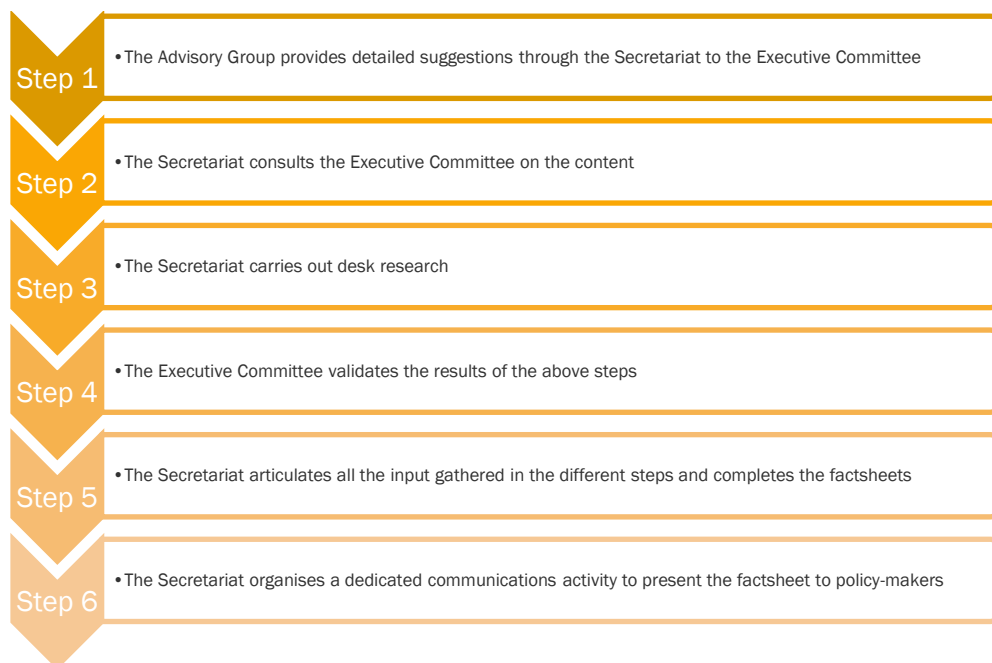
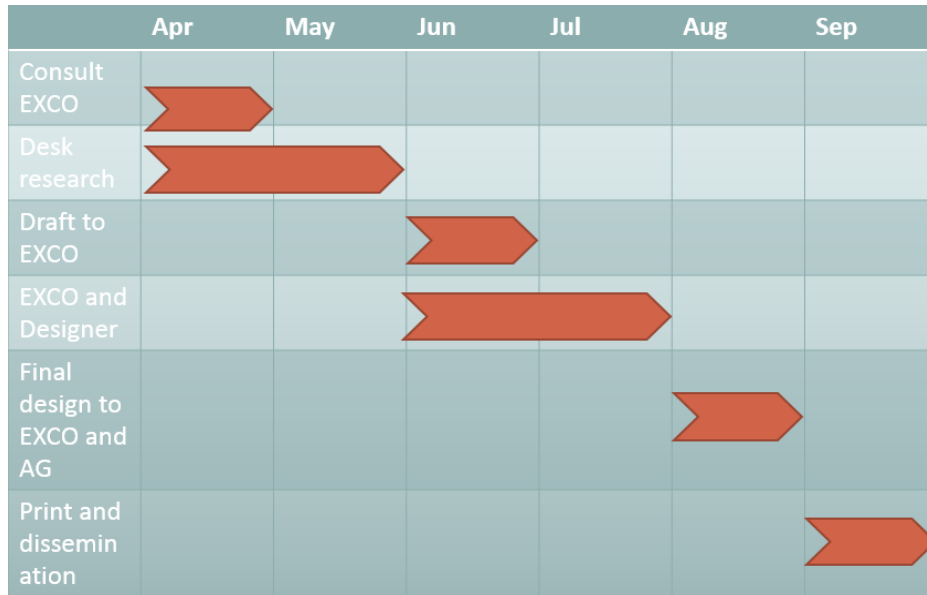


Figure 2: Timeline for fact-sheet 2019



Based on the suggestion of the Advisory Group the secretariat proposed blade circularity as the topic for the 2019 fact-sheet. This for three main reasons:

- Aging turbine fleet in Europe (20GW will be 20 years or older in 2022).
- Upcoming increasing volumes of composite waste used in wind turbine blades.
- Recycling is priority which had been outlined in the 2018 SRIA.

The objectives of the fact-sheet would be to provide detailed information on blade technology so that discussions on end-of-life are fact-based and technology driven, to highlight opportunities for the sector to achieve circularity in blade design and manufacturing and to give tangible recommendations to policymakers on research topics related to blade recycling and new materials suited to cross-sector collaboration and/or public funding.

The Secretariat also briefly presented the first concept and possible design lay-out of the fact-sheet explaining how the information would be presented. The idea would be for the document to show the different steps in the lifetime of the blade from design to end-of-life and with a comparison between today’s technologies vs. emerging/future technologies.

The Executive Committee agreed on the topic of the fact-sheet, but with a more specific focus on recycling. The Executive Committee stressed that blade recycling is part of a larger story, namely circularity. Other topics related to circularity could be explored in other fact-sheets. Potential topics include, for example, looking into towers (e.g. concrete towers,) magnetic materials and other components.

On blade recycling the Executive Committee agreed that Europe needs to develop strong solutions recycling that are exportable on a global scale. Technological solutions will need to have a limited environmental impact, whilst at the same time be cost-competitive vis-à-vis waste export and landfill

Whilst the wind energy sector only accounts for a small segment of total composite waste in Europe, the large volumes that can be procured from decommissioned wind assets can put sector in a driving seat. With the right technologies large quantities of materials can be recycled from blades. A single blade contains many tons of

fibreglass. The lifecycle assessment of wind turbines (e.g. by Vestas) offer a good overview of the challenges related to recyclability.

The Executive Committee agreed on following parameters for blade recycling:

- environmental impact;
- impact on work force (i.e. how many jobs can it create);
- cost competitiveness; and
- final energy use for recycling.

The Executive Committee also agreed that the fact-sheet should include:

- The positive impact of Blade recycling on public acceptance;
- That blade recycling reduces the sectors dependency on imported materials. It is also a resource problem (scarce materials need to be reused);
- Recent technology developments that allowed the sector to reduce the average weight of a blade (compared to power output);
- A comparison of recycling versus other waste management solutions (e.g. landfill);
- The importance of other sectors, both in terms of leading technology solutions and as possible consumers of the recycled end products;
- Business models and cost assumptions;
- A call for more streamlined and harmonised waste management regulation across Europe;
- The urgency and need for more research funding.

The fact-sheet needs to be written in an easy-to-understand language, very much like the “When Wind Goes Digital” brochure.

Action

The Secretariat will come back to the Executive Committee with a conceptual note on the fact-sheet for more detailed input.

7 Technology Roadmap

The secretariat gave a short presentation to recap the activities and outcomes of the previous meeting (see the minutes and presentation). The various Task Forces that were established are in the process of compiling the first drafts of the Research ID-kits. The secretariat will work on the overarching narrative of the roadmap.

The Executive Committee agreed that the technology roadmap should highlight the importance of strengthening the European wind energy sector's technology leadership and the associated benefits in terms of employment, revenues, GHG emission reductions and health.

The roadmap should also contextualise the purpose of this roadmap, explaining the rapid transformation of the industry. Technology roadmaps have been produced in the past (by other entities), but the sector is developing so fast that these have become obsolete. In response to this, the roadmap should become a living document.

In addition, the Executive Committee noted that highlights of impactful innovations and successful research projects could be a nice addition to the report. In all the report should be easy-to read, highly visual and should contain an extractable executive summary of just a few pages.

The discussion on the Technology roadmap was continued in a public workshop, in the afternoon of 04 April. The minutes of the workshop can be accessed on the ETIPWind website.

8 Participants list

Organisation	Representative
ABB	Adrian Timbus
DNV GL	Lars Landberg
EAWWE (TUM)	Carlo Bottasso
EERA JP Wind (CENER)	Xabier Munduate
EERA JP Wind (DTU)	Nicolaos Cutululis
EERA JP Wind (DTU)	Peter Hauge Madsen
EERA JP Wind (ORE Catapult)	Paul McKeever
EERA JP Wind (SINTEF)	John Olav Tande
EERA JP Wind (TNO)	Peter Eecen
ENEL Green Power	Demetrio Malara (joined online)
ENVISION	Daniel Luecht
ERG	Andrea Gaspari
Equinor	Hanne Wigum (joined online)
GE Renewable Energy	Jaco Nies
Iberdrola Renovables Energía	Cesar Yanes Baonza
LM Wind Power	John Korsgaard
MHI Vestas Offshore Wind	Anders Bach Andersen
Ørsted	Jørn Scharling Holm (joined online)
Renewable Energy Systems Ltd	Mike Anderson
Shell	Erik Van Iperen (joined online)
Siemens Gamesa	Aidan Cronin
WeAmec	Florent Vince
Vestas A/S	Agnar Gudmundsson
WindEurope	Sabina Potestio
WindEurope	Alexander Vandenberghe