



INTRODUCTORY NOTE

IEA WIND TASK 11 TOPICAL EXPERT MEETING # 100

ON

AVIATION SYSTEM COHABITATION

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BACKGROUND

Countries are facing cohabitation issues with civil and military aviation systems and wind turbines due to possible interferences. Two interference types are addressed: wind turbines could be physical obstacles to aircrafts, and may also cause electromagnetic-wave interferences (reflexion, diffraction, scattering, ...) to Communication, Surveillance and Navaid systems.

Many countries are facing issues with aviation, and finding manners of tackling and solving conflicts is paramount. It is often observed that specific policies are made for each and every country, and knowledge of international practices is often missing. Wind Europe has recently reached out to create a task force dedicated to aviation safety and wind energy plants conflicts in order to define and harmonise good practices across Europe. In Switzerland for example, given its small territory, those issues have been addressed for years and experiences have evolved into good practice. A set of recommended policies for different contexts, based on worldwide experience and good practices, would be a precious tool for the wind energy sector and for policy makers.



Photography: Matthieu Ducret



OBJECTIVES

The proposed TEM intends to gather good practices from the member countries in order to establish a list of policies as a decisional help for worldwide authorities.

The presentations will cover:

1. Best practices preventing legal monopolies and lobbies (out of wind energy domain)
2. Solutions and evolution strategy for obstacles
3. Solutions and evolution strategy for radio wave system

The participants will be expected to exchange information and ideas to include best practices granting the best possible cohabitation between aviation and wind energy plants.

TENTATIVE PROGRAM

The proposed TEM will be hosted online on December 8-10, 2020. A mixed format between interactive presentations and small group discussions is planned, with a total of 4 hours each day.

TEM#100 was originally to be collocated with the EMWT 2020, but the latter was cancelled. The meeting now takes place in the week following the Wind Energy Hamburg fair.

The final agenda will be shaped in the course of registrations; the foreseen program is as follows:

Prior to TEM#100: pre-meeting survey

To maximize the benefit of the meeting, we would like to ask invitees to kindly participate in a [pre-meeting questionnaire](#). Your responses and feedback will help inform the meeting agenda and will be summarized during the TEM's opening presentation. Further, your responses will provide quantitative data that will be incorporated into the final TEM report.

Note that the survey is anonymous, and we will not know who provided which answers. Finally, note also that even if you do not intend to attend the meeting in person, we invite you to participate in this questionnaire so that your expert opinion can be included. Thank you very much for your time!

Day 1: December 8th, 2020 – setting the context & glossary

- Introduction by host
- Example situations of conflicts between wind turbines and aviation
- Technical aspects: state-of-the art and agreement on definitions
- Short breakout sessions

Day 2: December 9th, 2020 – experience sharing

- Recap of day 1
- Case descriptions: country & participants presentations
 - o Proposed and implemented solutions
 - o Dialogue and collaboration models
 - o National aviation procedures and policies evolution
- Discussion and break-out sessions



Day 3: December 10th, 2020 – agreement on best practices

- Recap of day 2
- Further case descriptions
- Agreement on best practices: document draft
- Wrap-up and next steps

INTENDED PARTICIPATION

Participation is expected from the following parties:

- Wind farm operators;
- Civil aviation authorities;
- National defence departments;
- National and regional energy boards;
- European and national wind associations;
- Other interested and relevant parties.

EXPECTED OUTCOMES

We see a strong interest of bringing the different stakeholder to discuss together and identify best practices.

The outcome of this meeting will be a **report** summarising:

- Presentations from the participants;
- Recommendation and summaries for all areas discussed.

A **factsheet** summarising best practices and guidelines for policy makers as well as project developers will be another key outcome of this meeting.