



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 manners of tackling and solving conflicts is paramount. It is often observed that specific policies are made for each country, and that knowledge of international practices is sometimes missing. Wind Europe has recently reached out to create a dedicated 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 compressed 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.



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TENTATIVE 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 in Switzerland in the third quarter of 2020.

The program can also be coordinated with the EMWT community and the Wind Europe Task Force Aviation.

- Introduction by host
- Presentations from participants covering the topics previously listed
- Discussion and break-out sessions
- Listing of good practices and examples
- Recommendations for next steps

INTENDED PARTICIPATION

Participation is expected from wind farm operators, civil aviation authorities, national defence departments, national and regional energy boards, European and national wind associations and other interested parties.

Participation from researchers in the field could be also facilitate if the TEM is collocated with the EMWT 2020 (potentially in Switzerland). The 2019 EMWT meeting will take place in France <https://emwt2019.sciencesconf.org/>

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 a key outcome of this meeting.