

# IEA Wind TCP Task 52 (Wind Lidar)

## Working group (4): Cold climate

### Summary of the objectives:

The work of the group will concentrate on three main objectives

- data availability (e.g. use of more relaxed filters; improvement of the algorithms switching the wind turbine from operational to protection mode when the data availability is too low; sensitivity study on the relative importance of meteorological physical quantities on the data availability)
- icing (e.g. compare different Lidar technologies to see if one is more resilient to icing; find strategies to manage icing when it occurs)
- meteorological masts replacement (e.g. replacing met masts by Lidars would be useful especially in cold regions which are often remote or difficult to access)

Additional objectives might be added in the future.

### Planned deliverables:

The expected deliverables will be in the form of technical notes or presentations (all to be published on Task 52 Zenodo side), they will concern the points described in the objectives.

### Group approach:

The group will meet every five weeks (online) in order to discuss general progress and realign. We will try to form more specialized subgroups that can meet according to their own agenda.

### Timeline:

The timeline is not yet defined and will depend on the order in which the points of the objectives will be treated. Note that the activities build on the working group already established under Task 32 – but new participants are very welcome to join.

### Contact:

Marc Defossez, Lead project manager at Nergica [mdefossez@nergica.com](mailto:mdefossez@nergica.com)

