Task 32 Wind Lidar in Cold Climates
History

Context

- Icing, snow accumulation
- Reliability of power supply, remote or difficult to access regions
- Clean air/data availability, meteorological parameters

The working group at its creation

- Goal: *use Lidar more effectively and have a bigger impact on wind energy in cold climates*
- Expertise: manufacturing, data analysis, research, deployment
- Composition: 22 members initially

First activities

- Kick-off in March 2020
- Nicolas Jolin (Nergica) was in charge
- A few meetings and workshops have been done, as well as reports

Task 32 Wind Lidar in Cold Climates
Current activities

The group today

- Marc Defossez took over from Nicolas in March 2021
- The transition period was a bit slow to start
- 19 members as of 2021-11-17

Current activities

- Nergica's methodology (data availability, correlation between Lidar and meteorological parameters) and Python scripts shared with the group
- Preparation of 3 icing events for the group (mast + Zephir data, Sara Koller, Meteotest)
- Literature review on ice detection with Lidar

Task 32 Wind Lidar in Cold Climates
Future activities

The group tomorrow

- Revival of the 3 sub-groups (Operational, Science, Deployment)
- New members welcome (i.e. more members = more data)
- Joint Task 19/Task 32

Future activities

- We need to define a roadmap for the group and sub-groups
- Development of new approaches to detect icing with Lidar
- New data (e.g. Nergica will install a 3D-Lidar at its research site this winter)