

WIND MEASUREMENT WITH LIDAR (Light Detection And Ranging)

LiDAR is a terrain-based measurement technique using laser, which is invisible for human beings. It enables high precision measurements of the wind profile between 40 m and 200 m above ground by using the Doppler effect. Depending on the site conditions (simple or complex, open terrain or forest) it is an optimal supplement or even an alternative to the classical measurement mast, in accordance with the topic international guidelines (IEC, FGW, IEA).

LiDAR has many advantages

- Measurement of the wind profile at hub height and over the complete rotor area and thus a reduction of uncertainties in calculations of the wind potential and profits
- Fast installation and dismantling without construction permit: time- and cost efficient
- Very limited demand of space: an advantage specially in forests and complex terrain
- Resistant against icing on cold-climate sites

Benefit from our years of experience in the realisation of measurements with LiDAR and mast according to the guidelines, at simple and complex sites.

New Energy Scout, your partner for planning and realisation

- Consulting and design of measurement concepts
- Planning and carrying out complete measurement (installation, operation, dismantling)
- Autonomous power supply system for remote sites available
- Processing and evaluation of data, bankable wind assessment reports
- Cartographic correction specially for complex terrain in accordance with the guidelines
- In-house equipment (LiDAR, masts, measuring elements)



LET US ADVISE AND SUPPORT YOU!