

Windanalysis

LiDAR- MEASUREMENTS



DEUTSCHER
BAUSERVICE



As a competent partner
we strive to successfully implement
demanding projects in the field of
renewable energies.

Our highly qualified experts have comprehensive know-how in project development for wind energy, photovoltaics and holistic energy concepts. Rely on our expertise to turn forward-looking energy projects into reality and drive sustainable change forward.

Precise wind measurements by LiDAR devices are gaining more and more importance. Wind measurement by LiDAR is performed by emitting laser beams that measure the movement of particles in the air (aerosols or water droplets). By this the wind direction and speed is measured.

Are you looking for an ideal location for a wind farm, do you need wind measurements to calculate the performance of the turbines or do you want to ensure that your repowering project will be a complete success?

We at Deutscher Bauservice are future-oriented, flexible and always by your side.





Our experienced team supports you before and during the entire process. We not only offer you high-quality LiDAR devices for rent, but also comprehensive support and consulting. Our experts are by your side during the planning, installation and evaluation of the measurements.



Thanks to state-of-the-art LiDAR technology, we can provide you with accurate and reliable data on wind resources (with measurement heights of up to 300m above ground) at your potential sites.

We offer you:

- » Verified LiDAR wind measurements with latest technology (Vaisala Leosphere Windcube v2.1)
- » Project planning and project management
- » Daily check of the functionality of the measuring unit
- » Weekly check of data
- » Pre-evaluation of ongoing wind measurements in monthly reports
- » Full service incl. maintenance, monitoring, comprehensive standard-compliant documentation etc.
- » CFD-based correction of wind measurement data in orographically complex terrain situations (more accurate than implemented FCR)





Advantages

of LiDAR wind measurement

- » Fast and flexible setup of a measurement campaign with low manpower requirements
- » No building permit required (unlike the measuring mast)
- » No obstacle marking requirements to be observed
- » 20 measuring heights between 40 and 300 meters
- » No fixed power supply necessary
- » Flexible positioning and fast changeover
- » No or low input into nature
- » Low public visibility of projects
- » Easy transport (with and without trailer)
- » More accurate measurement data through individual CFD correction

Our offers for LiDAR wind measurement

LiDAR device
for wind measurement

Rental

- ✔ Rental of the LiDAR device, the trailer and the PowerPack
- ✔ Data connection to the fuel cell as well as to the LiDAR device
- ✔ Daily data forwarding
- ✔ Insight into the configuration of the LiDAR device
- ✔ Data management of the measured data
- ✔ Geofence of the LiDAR device as well as the trailer

Accompanied wind
measurement by means
of LiDAR device

Managed

- ✔ Includes all "Rental" services
- ✔ Daily remote function monitoring
- ✔ 2x per week plausibility check of the data
- ✔ Preparation of monthly reports (trends, anomalies, data availability and quality of one month)
- ✔ Compliant documentation according to TR6
- ✔ Preparation of a final report (evaluation of the data of the entire measurement period)

Bookable additional services

- + Assembly and transport
- + Maintenance according to requirements
- + Site inspection and consultation
- + Failure protection (replacement device in case of technical failure)
- + Preparation of detailed monthly reports
- + Communication with involved parties (land owners, tenants etc.)
- + Accreditation of wind measurement
- + Unforeseen operations

Accredited evaluation

- + Energy yield report
- + Site survey
- + Sound consulting



DEUTSCHER
BAUSERVICE

Your Benefits:

- » Extensive expertise in project development
- » Experienced and professionally trained project staff with comprehensive know-how
- » Direct contact for contractors and land owners over the entire project period
- » High level of digitalisation and professional IT systems guarantee efficient processes and sustainability



We will be happy
to create an individual
offer for you.

Contact us...



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Learn more
here!

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