



## **GEO-NET** **Experience builds confidence.**

Efficient solutions for your wind power project.  
Climate and air analyses for your planning.





For almost 20 years we have been supporting our customers with our comprehensive know-how in the fields of wind energy and environmental meteorology. Our interdisciplinary team is made up of experts in fields such as geography, meteorology, renewable energy engineering and landscape ecology. The long-standing experience makes us a reliable partner for the profound advice, successful development and reliable expertise of your wind energy projects.

GEO-NET provides individual solutions for private and public clients – from project developers to state authorities. We offer high quality and reliable expertise guaranteed by the accreditation according to DIN EN ISO/IEC 17025:2005 (DAkkS<sup>\*1</sup>, ILAC<sup>\*2</sup>). As certified and accredited laboratory, GEO-NET follows the current national and international technical guidelines and standards as well as MEASNET standards.

GEO-NET is recognized by banks, finance investors, project developers and public authorities. The worldwide acceptance of our reports is ensured via the ILAC Mutual Recognition Agreement. As a result of our long-standing international activities we have cooperation offices in Brazil, Thailand and Russia as close partners of GEO-NET.

The accreditation by DAkkS covers conduction of

wind measuring campaigns, wind data analysis, the determination of wind potential, as well as energy yield calculations and the determination of reference yield of wind turbines. Furthermore, GEO-NET is a member of the advisory board for wind consultants of the German Wind Energy Association (BWE, Bundesverband WindEnergie e.V.), of the technical committee of the Society for the Promotion of Wind Energy (FGW, Fördergesellschaft Windenergie), and of the European Wind Energy Association (EWEA).

Since 1995, GEO-NET has been at the interface of research and development and has worked closely with universities and authorities. We can draw from a broad range of state-of-the-art climate, dispersion and flow stream models, as well as assessment procedures and reference data to handle the various technical issues worldwide.

## Wind energy

- + Experience in more than 4.000 wind energy projects in over 50 countries
- + Bankable wind and energy yield assessments
- + Wind potential studies
- + Site identification procedure for wind energy locations
- + Mast based wind measurement campaigns
- + LiDAR measurements and verification
- + Micrositing and optimisation of park layout
- + Technical Due Diligence
- + Performance analysis and evaluation of long-term energy production of existing wind farms
- + Turbulence expertise

## Environmental meteorology

- + Urban climate modelling: climate function and planning advice maps
- + Impact of climate change on settlement areas: adaption, vulnerability analysis and management strategies
- + Examination of climate and air quality for construction projects plus wind comfort analysis
- + Air quality plans and short-term action maps
- + Odour and pollutant dispersion expertises
- + CO<sub>2</sub> balances
- + Analyses of shading and illumination related to construction projects
- + Climate protection and adaption concepts

\*1DAkkS = Deutsche Akkreditierungsstelle (German Accreditation Body), \*2ILAC = International Laboratory Accreditation Cooperation