



Test and Assessment of Onshore Wind turbines

Type and Component certification



On the safe side.



Certification of Onshore Wind turbines

Wind turbines have to work safely and reliably – this is not only essential for their profitability, but may also impact the life and physical health of people. When certifying types of wind turbines, the main focus is on both their safe, reliable and uninterrupted use and on the health of the maintenance and service personnel. Whether an entire plant or farm, the service lifts, ladders or certain components need to be certified: DEKRA EXAM is your reliable, straightforward and in particular swift partner where certification according to IEC 61400 is needed.

DEKRA EXAM has recently commenced to offer test and assessment services for the sector of wind turbines; we have been certifying individual components that are used for the construction of wind turbines according to the Machinery and PPE Directives for years, such as guided-type fall arresters, suspended access equipment and guide rail systems. Therefore, we thought it logical to bundle this know-how and to offer it to the wind power sector as such. We seek to start new partnerships in testing and assessment by providing fresh and constructive ideas.

Our focus is clear: we will guide our clients through the entire certification process – timely and straightforward, focused on the brief, but always bearing safety measures in

mind and remaining totally impartial. The service range of DEKRA EXAM covers both type and component certification according to the certification procedure of IEC 61400-22 while observing the standards of the IEC 61400 series and other technical rules and regulations. In particular, we assess the following:

- the design basis
- the load analysis
- the safety system and manuals
- the rotor blade
- the mechanical systems
- the tower
- the electrical system
- the personnel safety
- the manufacturing
- the type testing

In addition to the safety of the components and systems assembled, there are two more key aspects that are going to play an increasingly important part in wind power systems: functional safety and fire protection. Based on our long-standing experience, DEKRA EXAM is able to test and certify both the functional safety and the fire protection of wind turbines. In other words, the type certification done by DEKRA EXAM actually includes the safety-related assessment of the entire concept of the wind turbines.

DEKRA EXAM, we ensure safety!

DEKRA EXAM GmbH
Safety of Machinery/Wind Turbines

Dinnendahlstr. 9
44809 Bochum, Germany
Telefon +49 (0) 2 34/36 96-0
Telefax +49 (0) 2 34/36 96-111
E-Mail exam-info@dekra.com
Internet www.dekra-exam.eu