



Wind Energy



Services in all phases

Years of experience from the wind power sector enable us to support our customers in every phase of a wind power project. DEKRA, through local representation, can be your partner during the project and help you ensure safety and quality. We are accredited by SWEDAC to perform inspections and when we are on site we often also help with the unaccredited services.

Wind energy and DEKRA

Within DEKRA we work to contribute to a longer-term and profitable ownership by offering market-leading and customized products at competitive prices. Always with customer, quality and safety in focus!

Inspections:

- > Takeover Inspection
- > Inspection at the change of ownership
- > End of Warranty Inspection with follow-up and analyses of production and errors during warranty period
- > Status Inspection
- > Blade Inspection
- > Gearbox Inspection

Quality Assurance:

- > DD / Technical Advisor
- > Purchase
- > Construction
- > Commissioning
- > Alignment
- > Maintenance work

Services that require accreditation:

Inspection (third-part body)

- > Inspection of service lift
- > Inspection of chain hoist/telpher
- > Inspection of pressure vessels

Unaccredited Services:

Competent Person

- > Control of anchor points
- > Control of personal protector equipment (PPE)
- > Control of evacuation equipment
- > Use of work equipment, AFS 2006: 4
- > Annual control fire extinguishers, SS 365

Health, Safety & Environment

DEKRA have specialists within Health, Safety & Environment. We help you with analyses, investigations, audits, measurements and other actions that are required internally or externally. We identify your needs, develop action plans and implement customized solutions.

Examples of DEKRAs services:

- > Risk assessments and risk analyses
- > Law and requirements for operation and construction of wind turbines
- > Support for CE marking as well as analyses related to machinery directive
- > Education: Risk analyses, BAM, SAM, SBA, Safe operation of wind turbines and sites
- > Safety training for wind turbines (initial education)
- > BAS-P / BAS-U and HSE Manager / Safety Officer
- > Quality Assurance & Quality Control (QA/QC)

Accident Investigation, Material Analysis & Construction Control

DEKRA is working to help ensure that our customers' facilities and objects become more secure, as well as reduce the risk of unexpected breakdowns. Our specialists have for example competence within:

- > **Status and life cycle analysis** - Status life-long evaluations based on ex; material and corrosion knowledge, strength calculations, experience and through different testing methods.
- > **Accident Investigation** - One of the most important parts is to address the root cause to reduce future accidents.
- > **Oils and Lubricants** - Analyses of oils, lubricants and other tribologically related factors, etc.
- > **Control of concrete foundation** - What is the status of concrete construction? New construction, or can you come up with a small cost-effective repair?
- > **Corrosion Analysis** - Why has corrosion occurred? Wrong choice of materials, environment, maintenance or execution?
- > **Damage tolerance analysis** - How long can you run with a certain amount of damage before it becomes critical?

Non-destructive testing (NDT)

Non-destructive testing (NDT) it is about detecting damages at the earliest, which in the long term can cause costly damages. In consultation with our customers, we choose the method that fits the customer's specific needs - always with the highest focus on cost-effectiveness, quality and safety.

DEKRA perform NDT on for example:

- > Steel constructions
- > Welding joints
- > Foundation bolts
- > Composite constructions (blades)



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DEKRA - Global partner for a safe world

DEKRA is working for increased safety in a variety of industries through independent inspection, testing and certification. DEKRA is Europe's leading expert organization with 40 000 employees in more than 50 countries.



With reservations for errors and changes.