

Wind Energy: From the ***foundation*** to the ***tip of the rotor blade***





Planning, approval and conception

Safe in the planning phase. DEKRA supports you right from the start ...



Construction phase

Safe in the construction phase. DEKRA supports you in an orderly construction project ...



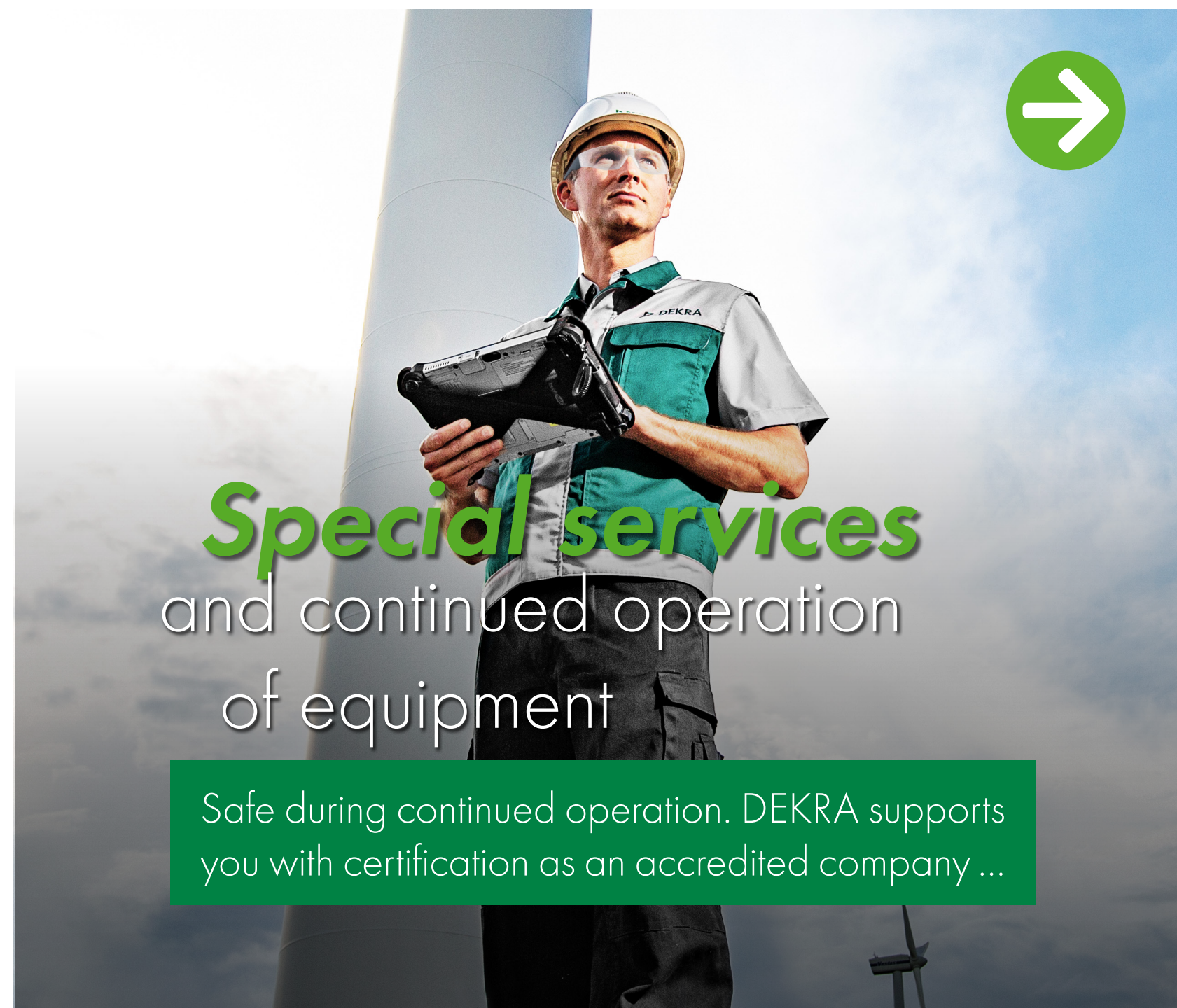
Operating phase of equipment

Safe in the operating phase. DEKRA supports you in ensuring smooth plant operation ...



Qualification of employees

Safe to deal with. DEKRA supports you in employee qualification ...



Special services and continued operation of equipment

Safe during continued operation. DEKRA supports you with certification as an accredited company ...



Renewable energies and sector coupling: hydrogen

Hier fehlt immer noch Text ...



Planning, approval and conception

DEKRA supports you with your wind energy project from the very beginning. With good planning and our experts, you can set the right Foundation.

Services in the planning phase

- Condition assessment
- Consulting & advisory in the field of environmental protection
- Component certification
- Risk analysis according to the Machinery Directive
- Notified measuring body "noise" for official orders & permissions
- Consulting & advisory in the field of occupational health and safety
- Consulting & advisory in the field of operational safety
- Destructive or non-destructive testing of materials

and much more ...





Planning, approval
and conception

Construction
phase

Operating phase
of equipment

Qualification
of employees

Special services
and continued operation
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Renewable energies and
sector coupling: hydrogen



Construction
phase

Even during the construction phase we pay attention for you with regard to quality and state of the art. Safety is our top priority at every stage.

Services during the construction phase

- 3rd-Party-Inspections prior to commissioning of hydraulic systems and of service lifts as inspection body
- Expert inspection before commissioning (also during construction)
- Mandatory Inspection of work equipment according to Operational Safety Ordinance/ Labour Code
- Inspection and expert opinion according to Federal Immission Control Act (§29a)/ Environmental Codes
- HSE management (training and consulting)
- Assisting in the field of construction site coordination (health & safety coordinator)
- Inspection in the field of electrical safety
- Preventive and defensive fire protection – consulting & inspection
- Condition Assessment - Technical Due Diligence

and much more ...

Construction phase of the infrastructure





Operating phase of equipment

Long-lasting and smooth plant operation? No problem. With our extensive portfolio of (periodical) inspections and expert opinions we support you.

Services in the operating phase

- Periodic 3rd-party-inspection (ZÜS) of the hydraulic system and service lifts under Operational Safety Ordinance/Labour Code
 - Inspection of work equipment according to Operational Safety Ordinance/Labour Code
 - Inspection and expert opinion according to Federal Immission Control Act (§29a)/Environmental Codes
 - Periodic inspection according to BWE/ DIBt/Construction Regulatory
 - Blade inspection (access by rope technology and UAV-Inspection)
 - Inspection over the entire life cycle of the wind turbine:
 - EOW: End of warranty
 - CBI: Condition-based Inspection
 - Damage report and court opinions
 - Inspection in the field of electrical safety
 - Condition assessment - Technical Due Diligence
- and much more ...





Qualification of employees

The protection of employees at the wind turbine is the highest good. With a extensive training and qualification offer we ensure safety in operation.

Services in the field of employee qualification

- Education and training for technology, safety, labour, health & environmental protection, and transport safety
 - Electrical engineering & safety
 - Fire protection
 - Explosion protection
 - Heavy construction equipment and cranes
 - Forklift truck
 - Safety Officer
 - qualified persons
 - First aid
 - PPE (personal protective equipment)
 - Immission protection

and much more ...





Special services and continued operation of equipment

The continued operation of the wind turbine is also nothing stands in the way. We certify your wind turbine as an accredited company and offer other specific services.

Spezialdienstleistungen

- Certification of continued operation (accredited according to DIN 17065)
 - Analytical part
 - Technical Assessment
- Special engineering services and measurement technology:
 - Vibration measurement on components
 - Gearbox endoscopy and technical assessment
 - Precision measurement of the drive train
 - Blade angle measurement
 - Oil and grease analysis
 - Visibility assessment

and much more ...



Services in the field of hydrogen

- Occupational safety and safety consulting for handling & use of hydrogen
- Expert opinion in the approval process
- 3rd-Party-Inspection of explosion safety of plants according BetrSichV (ZÜS-Ex)/Environmental Code/OSHA and of storage tanks (ZÜS for Pressure Eq.)/Environmental Codes
- Type examination for dangerous goods transport equipment (according to ADR/TPED) & for hydrogen filling plants
- Inspection of dangerous goods transport equipment (according to ADR/TPED)
- Feasibility study for the rededication of natural gas pipelines and expert opinions
- Design Review & Commissioning Inspection for new pipelines & transport pipelines
- Test concept for valve testing and test bench for qualification of existing valves
- Functional safety

and much more ...

Renewable energies and sector coupling: hydrogen

DEKRA provides support in all areas of renewable energies with inspection, certification, materials testing, and qualification and consulting services in the entire value chain.