To ensure the success of your wind farm project, we provide a range of services to support you at every phase of the project life cycle – from site selection, design and manufacturing, right through to operation.

Ensuring compliance of wind turbines and components with all applicable EC directives

In order to guarantee that the health and safety standards of the European Economic Area (EEA) are met, manufacturers of wind turbine and related components need to make sure that products are compliant with all applicable EC directives. CE Marking illustrates such compliance. Selling wind turbines and equipment across the European wind energy market requires a Declaration of Conformity (DoC) as well as the CE Marking. Meeting both of these requirements can be cost-intensive and time-consuming. A reliable partner like TÜV Rheinland is there to support you throughout and to ensure smooth and correct handling of the entire process.

We offer a comprehensive range of services for the implementation of CE Marking for wind turbines. As part of our large service portfolio, our Certification Body for Wind Turbines, accredited in accordance with EN 45011, can support you in the certification process of your wind turbines and related components according to the IEC 61400 series.

Our services can help you successfully enter the European wind energy market.

Our experience - your benefit

Take advantage of our auditor and expert know-how. As a member of the Enterprise Europe Network of the European Commission, TÜV Rheinland guarantees smooth CE Marking certification.

TÜV Rheinland’s intelligent solutions ensure the maximum safety, functionality and trouble-free operation of wind turbines. We have both the required expertise and accreditations.
The following six steps lead to successful CE Marking for wind turbines:

**Step 1: Clarification of Applicable Directives**
More than 30 EC directives require CE Marking. For wind turbines, a number of these directives must be applied, including the Machinery Directive, the Low Voltage Directive, the EMC Directive, and many others depending on the installed components.

**Step 2: Verification of Requirements**
Firstly the manufacturer must ensure that the wind turbine complies with all applicable EC directives. This involves carrying out an assessment of essential health and safety requirements related to the product which in turn must be identified to evaluate the conformity of a wind turbine. This includes the identification of applicable European harmonized standards as a way to establish presumption of conformity.

**Step 3: Do You Need a Notified Body?**
Before proceeding with the assessment, you need to clarify whether you, as a manufacturer, can assess your product by yourself or if it needs to be done by a Notified Body.

**Step 4: Evaluation of Conformity**
The manufacturer or an authorized representative performs a risk assessment to ensure that the risks associated with the use of the wind turbine are identified. Based on the results of the risk assessment and on the essential health and safety requirements for the wind turbine or related components, the conformity assessment can be executed.

**Step 5: Technical Documentation**
A successful assessment of the technical documentation is also required. The technical file i.a. includes:
- Detailed documentation of wind turbine construction results.
- Test results.
- Description of protective measures in place.
- A copy of the EC declaration of conformity.
- Etc.

**Step 6: Marking**
Upon successful completion of all necessary steps, the manufacturer draws up and signs an EC Declaration of Conformity and affixes the CE Marking on his sole responsibility.

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**About TÜV Rheinland:**
Founded more than 140 years ago, TÜV Rheinland is a global leader in independent inspection and certification services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life. The Group maintains a presence at around 500 locations in 65 countries with 16,000 employees.

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