

Wind Solutions

BLADEcontrol® Rotor Blade Monitoring

Get the most out of your system



Weidmüller 

BLADEcontrol®

The intelligent rotor blade monitoring

Weidmüller's BLADEcontrol® rotor blade monitoring system has been successfully used to increase the yield of wind turbines since 2004.

Condition Monitoring System

With BLADEcontrol® you can detect even the smallest damage to rotor blades, e.g. blade tip damage caused by lightning strikes, trailing edge cracks, web separation, bonding defects or blade bearing damage. This is achieved by measuring inside the blade, at the point where the damage occurs.

- Reduction of life cycle costs through reduction of repair and downtime costs
- Yield optimization through early detection of rotor blade misalignment
- Value preservation through permanent condition monitoring
- Lightning current resistant, high-precision sensor technology

Ice Detection

BLADEcontrol® stands for reliable ice detection. The highly precise and certified system reports ice build-up in the millimetre range, even at standstill. The automatic stop and restart after ice clearance minimises yield loss.

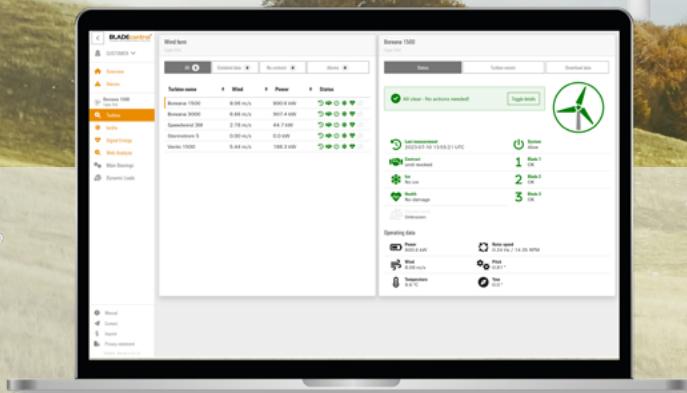
- High availability of the wind turbines at low outside temperatures
- Yield maximisation through Reduction of downtimes
- Avoidance of ice shedding to comply with licensing requirements
- Control of leaf heaters
- Sensors in the root area of the rotor blades
- Tested and certified since 2008

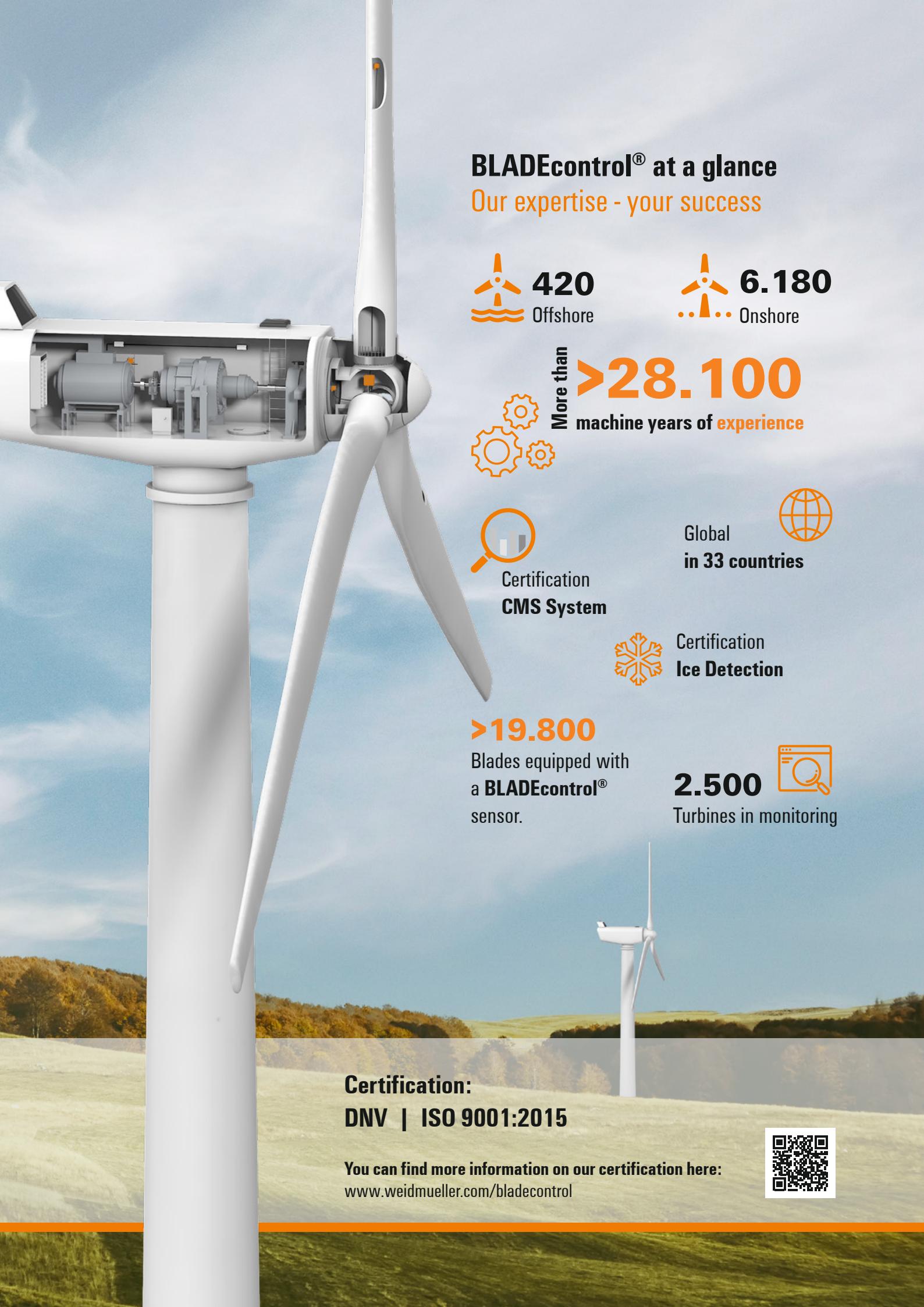
Monitoring Services

Our condition monitoring services guarantee a reduction in unplanned downtime and the safe and efficient operation of your plants.

We are experts for the monitoring of your wind turbines and support you through our monitoring specialists.

- Continuous data collection and information on the condition of the rotor blades 24/7
- Easy access to data, analyses and information via our online platform WebVis
- Permanently enhanced analysis software for damage detection
- Optimal planning of repairs through timely information on potential damage





BLADEcontrol® at a glance

Our expertise - your success

 **420**
Offshore

 **6.180**
Onshore

More than  **>28.100**
machine years of experience

 Certification
CMS System

 Global
in 33 countries

 Certification
Ice Detection

>19.800
Blades equipped with
a **BLADEcontrol®**
sensor.

 **2.500**
Turbines in monitoring

Certification:
DNV | ISO 9001:2015

You can find more information on our certification here:
www.weidmueller.com/bladecontrol



As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Smart Industrial Connectivity.

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Made in Germany

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