

fos4X system for damage detection on rotor blades certified by DNV-GL

Fiber optic condition monitoring system from fos4X

Munich, August 16, 2017 – With Turbine Integrity Control, a condition monitoring system for rotor blades developed by fos4X and certified by DNV-GL, damage to rotor blades can be detected at an early stage and thereby their financial impact on turbine operation can be minimized.

Turbine Integrity Control monitors the structural condition of the rotor blades and can detect small damages at an early stage before serious damage and associated higher costs occur. In addition, necessary maintenance work and inspections can be better planned and the operational costs can also be reduced for offshore turbines.

Advantages of fiber optic measurement technology

The great advantage of the fos4X solution lies in fiber optic measurement technology which makes Turbine Integrity Control immune to electromagnetic interference and damage caused by lightning strikes, in contrast to electrical systems.

Due to the high cycle durability of fiber-optic sensors, a very long service life of the system is achieved. Retrofit installation is possible in less than one day per turbine.

Certification of Turbine Integrity Control

The standard configuration consisting of fiber-optic measuring devices and fiber-optic acceleration sensors was installed on an 11 meter long rotor blade for the certification of the condition monitoring system. In the presence of a DNV-GL expert, several damages to the rotor blade were introduced which were immediately identified by the system.

About fos4X GmbH

Founded in 2010 in Munich, fos4X GmbH is a specialist in innovative, fiber optic measurement technology and sensor technology - primarily in rotor blades of wind turbines - and develops intelligent solutions for blade load measurement, ice detection, condition monitoring and operation optimization.

The main focus is on the optimization of wind turbines and wind parks with the help of fiber optic sensors. The aim is to increase both the availability of energy from wind power and the share of renewable energy.

For further information see www.fos4X.de

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