



Success Story

MONITORING WIND TURBINES AT ENEL GREEN POWER

Leading European wind turbine operator chooses B&K Vibro

Enel, a leading European wind turbine operator and owner, selected Brüel & Kjær Vibro to monitor four wind parks and provide comprehensive monitoring and diagnostic services. The customer was trained to install the monitoring systems themselves. All monitoring and diagnostic activities will be undertaken by B&K Vibro, where actionable information reports are promptly issued if machine faults are detected and diagnosed. As the customer gains experience, they can also perform diagnoses themselves using the B&K Vibro VibroSuite software.



Figure 1. Site survey for installing the monitoring system hardware and sensors in a Gamesa Type 2 wind turbine (above) and a Repower wind turbine (below)



MACHINE/INDUSTRY/PROCESS

Machine	145 Gamesa, Vestas, GE and Repower wind turbines: High speed portion of the drive train for wind turbines less than 1MW; entire drive train for larger wind turbines
Company/Process	Enel Green Power, Italy; owner and operator of approximately 9GW of renewable energy production in Europe and the Americas, of which over 720 MW are wind turbines
Monitoring System	Brüel & Kjær Vibro Wind Turbine Monitoring System and the global Surveillance and Diagnostics Service Centers
Monitoring Strategy	Around-the-clock fault monitoring, fault diagnostics, root-cause analysis, alarming and maintenance recommendations

BENEFITS

As a result of the customer's diverse portfolio of assets, a single monitoring solution was implemented to facilitate data correlation and improve overall asset reliability. This was made possible by the B&K Vibro system core design concept that enables the successful implementation of monitoring systems on numerous wind turbine parks comprising a range of turbine and component manufacturers. The scalable monitoring and diagnostics solution also benefits the customer in enabling them to use their resources and expertise in the most effective way, as they gain experience.

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