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Wind Turbine Inspection

Wind turbine inspection is an indispensable service to ensure the reliability, safety, and performance of wind farms. All wind turbine generator operations require regular maintenance and periodical inspections as over the years, all main components, from mechanical, civil, or electrical, suffer considerable wear that can affect the performance of the wind tower. To reduce this probability, periodical inspections of the main components are highly recommended.

As an experienced company in wind services, we can assist in the performance of any mandatory wind inspection or determining the real condition of a wind farm from different perspectives.

THE Applus+ SOLUTION

Applus+ engineers offer their clients turbine and blade inspection tailored solutions to ensure that the main components of their wind energy projects meet the highest quality standards. We have wide experience in both, external and internal inspection, with almost all WTG manufacturers for onshore and offshore wind technology.

Our range of wind farm inspection services include mechanical, electrical or civil aspects covering the full project cycles. From manufacturing, including Non-Destructive Testing (NDT) services, to the OandM, ensuring an optimum wind turbine maintenance.

The Applus+ wind turbine inspection services include, among others:

- Wind turbine drone inspection by UAV, automated aerial technology.
- **Gearbox inspection**, using a borescope to reach the most inaccessible areas.
- **Non-destructive testing (NDT) in main components** such as main shat, tower section welding, alluring, or bearings.

- **Non-destructive testing (NDT)** in tower section welding avoiding structure problems in the operation.
- **Mandatory inspections**, like service lifts, ladders, fall protection systems, etc.
- **Powertrain vibration analysis**, reducing breakdowns possibility for mechanical failures.
- **Tower verticality measurement and foundation movement**, avoiding foundation concrete micro-cracks.
- **End of warranty**, reducing risk in all asset life expectancy
- **Electrical testing on components**, reducing breakdown possibility.

Applus+ wind inspection activities and processes are accredited by ISO 9001, the world's most popular standard for quality management

Innovation and RandD are key pillars of our strategy, in line with our mission of providing the best service to clients.

Target customers

Applus+, as an independent testing, inspection, and certification company, provides wind services to wind farm developers, utilities or operators. From the manufacturing process, in which we are experts by providing NDT services onshore and offshore (including jackets, monopiles or tower sections), to operation and maintenance phase, where we have years of experience performing all types of inspections, including mechanical, civil, or electrical testing.