

REFERENCE CASE WIND ENERGY



Independent inspection services assure quality of Jhampir wind farm project in Pakistan

When Nordex were building 33 wind turbines for the Jhampir wind farm project in Pakistan, they required expert independent inspection to assure component quality. That's why they turned to TÜV Rheinland.

Initial situation and requirements

Nordex provides powerful wind turbines for clients across the globe. With their expertise in technical design and development the company was commissioned to supply 33 wind turbines for the Jhampir wind farm project in Pakistan. The contract between Nordex and their customer required independent inspection to confirm that the components built in their facilities in China met stringent quality standards before shipment.

Basic Facts	
Client	NORDEX (Beijing) Wind Power Engineering and Technology Co., Ltd.
Involved companies	FFC Energy Limited
Timeframe	From 2010 and ongoing
Project location	China
Main services	<ul style="list-style-type: none">▪ Full-scale third-party inspection▪ Reporting and certification services
Involved regulations/standards	<ul style="list-style-type: none">▪ DIN ISO 2859▪ DIN EN 10204▪ DIN EN ISO 8504

Solutions, results

As a world-leading provider of independent inspection for the energy industry, with extensive experience in the wind energy sector, TÜV Rheinland was the preferred choice for Nordex.

To assure quality throughout the manufacturing and assembly phases of the wind turbines, we provided a range of inspection services at the Nordex production facilities in China. These included comprehensive inspection of various main components, such as gearboxes, generators and converters.

We also provided inspection and quality audits for the manufacturing and assembly of all nacelles and blades.

Finally, we performed a thorough inspection of all components prior to shipment to Pakistan. Plus, we ensured all documentation was in order, including the Bill of Lading, and issued all relevant inspection reports and quality certificates.

Benefits for the client

TÜV Rheinland provided Nordex with:

- Full-scale third-party inspection of production processes, including reporting and certification services through one convenient point of contact.
- Extensive experience of wind energy projects and quality issues.
- A powerful local presence across Asia, enabling us to complete all inspections and other services in the shortest time.
- Expertise on production processes, helping Nordex to complete the order to the required quality.

About TÜV Rheinland

Founded 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life.

We inspect technical equipment, products and services, oversee projects and help to shape processes for companies around the world. Since 2006 we have been a member of the United Nations Global Compact to promote sustainability and combat corruption.

For the wind energy sector we provide a comprehensive service portfolio, covering every aspect of wind energy projects - from site selection, design and manufacturing support to dismantling plants.

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Did you know?

Jhampir is the first windfarm in a series of projects to establish green power on a large scale in Pakistan.



Construction supervision of mechanical components



Manufacturing surveillance of rotor blades



Assembly of wind turbine generator