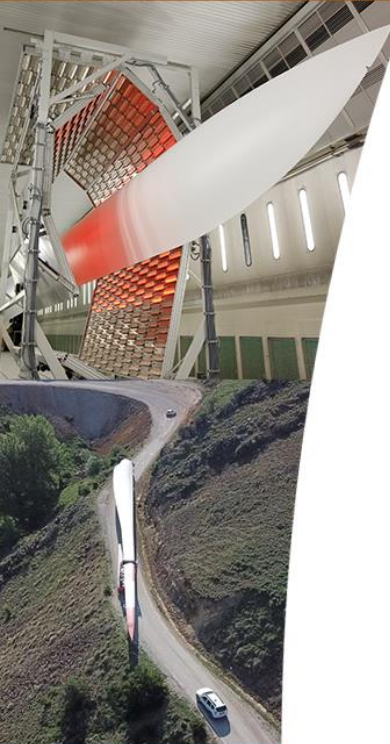


# ➤ Case Study: Wayra I



**Projekt** Wayra I

**Owner** Enel Green Power Peru

**Installed capacity** 132 megawatts

**Wind turbine** 42 AW125/3150 turbines

**Tower height** T87.5 (steel tower)

**Location** Peru, near Nazca

**Construction period** February – May 2018

**Grid connection** June 2018

**Scope of contract** Preparation of construction site. Delivery and installation of the turbines. Wind farm service for a period of up to five years.



# Largest wind farm in Peru connected to the grid



## Successful entry into a new market thanks to international supply chain

**Hamburg, July 2018.** New markets bring particular challenges. This applies equally to the wind power industry. One good example of this is the Nordex Group's entry into the Peruvian market. Roughly one year ago, Peru had only eight wind farms with a combined installed capacity of around 200 megawatts. Then, the utility Enel was granted a permit to execute a major project for the installation of a wind farm with a capacity of 132 megawatts. In selecting a suitable OEM, it decided to go for the Nordex Group, which was experienced in South America. Accordingly, it placed an order with the Group for the delivery of 42 AW125/3150 turbines for installation in the Province of Nazca.

"The particular challenge with new markets is the frequent gaps in the existing regional supplier structure. We have to qualify component producers from similar industries or import systems from abroad to offer our customers the quality they expect at competitive prices," explains project manager Francisco Asensio, who works in international markets for the Nordex Group. And, indeed, the supply chain extended across three continents: the steel tube towers and rotor blades were sourced in Asia, the nacelles and hubs from Nordex's own production facilities in Europe and numerous electric components from South America, where the Group has extensive operations in Brazil, Argentina, Mexico and elsewhere.

However, the Nordex Group was not only required to supply the turbines but was also responsible for preparing the construction site and installing the systems. This called for great attention to detail particularly due to the natural surroundings. During the day, temperatures at the site rise to around 30 degrees, accompanied by minimum rainfall. And if that were not already enough, the region is subject to earthquakes and extreme sand storms, which often placed constraints on the local team. "To protect our employees' health at all times, we installed additional supply stations and protective facilities or worked in phases, something that was factored into the schedule," explains Jorge Querol, the Group's construction site manager.

What ultimately counted was the health of the team of 146 employees from eleven nations, the completion of the project on time and the commencement of production of clean power from natural energy. A local team of ten Nordex Group service technicians are now stationed at the site to ensure reliable ongoing operations.

