Sustainability action · Project Renewable Energy and Energy Efficiency

Enercon Wind Farm in Rajasthan, India

A wind park located in remote villages in Rajasthan provides clean energy and employment to the local population and contributes to the transfer of modern German technology to India.

Project

This project involves the construction and operation of a 60 MW windfarm. It consists of 75 turbines of Enercon make (800 kW E-48). The windfarm generates an average of 115’632 MWh of clean electricity for the Rajasthan state electricity grid, which is part of the Northern regional electricity grid.

1034EN, 05.2015

Location

The wind farm is located at Kita and Pithodai Ki Dhani village, in Jaisalmer District of Rajasthan state in the Northwestern part of India.

Project achievements

Socio-economic impact

- **The project provides enough clean energy to power over 22'000 households** (assuming the average household size of 5.5 and average annual electricity consumption per capita of 927 kWh in Rajasthan)
- **Construction of the wind farm temporarily provided 93 local jobs** (81 staff for security and safety purposes and 12 staff for construction activities). Now, 22 people are employed permanently from the nearby villages. They are in charge of the operation and the maintenance of the windpark.
- **The project owner Enercon India Ltd. has secured and facilitated the technology transfer from Enercon GmbH.** He has established a manufacturing plant at Daman in India. The "Synchronous Generators" using "Vacuum Impregnation" technology are manufactured there along with other components. Enercon produces advanced gearless type turbines. These have several operational and maintenance advantages over turbines with conventional gearboxes, which are prevalent in India..
- **In 2004-2005, the project owner reconstructed a school in Jaisalmer, Rajasthan.** He continues to take into account the requirements of the village school. He also provides opportunities for women in the village.
- **The project owner has improved the availability of water,** which can also be accessed from the project site. The tube wells are located at a distance of 3 km from the project site. The people from the village access it on a daily basis.

Environmental impact

- The project reduces over 101'000 tCO_2 per year. It leads to significant reductions in the release of air pollutants, including sulphur dioxide (SO_2), nitrogen oxides (NO_x), as well as other particles that are typically associated with the burning of fossil fuels.

Checklist Project 301713

Commercial Operation Date
25 December 2006

Total capacity
60 MW

Estimated Annual Electricity Generation
115'632 MWh

Quality Assurance and Verification
Annual audit provided by PWC
Annual electricity verified by Bureau Veritas

Transparency
RECs listed in GoldPower Register (http://goldpower.net/goldpowerregister)
Underpinning carbon credits retired in the CDM Registry

Marketing material
High-resolution pictures available

Reportability
Meets GHG Protocol Scope 2 Guidance criteria

GoldPower credentials projects certified by

The Gold Standard®
Premium quality carbon credits

GoldPower credentials reportable under

WWF · CDP · WINDMADE · RE 100

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Natalia Gorina
Sales Director Carbon & Renewables
Phone +41 43 501 35 50
sales@thesouthpolegroup.com