



Suzlon Energy Limited



Kutch Wind park

CASE STUDY



Summary

Suzlon's installations have made it possible to turn an arid land into one of the world's largest wind parks with over 1GW of cumulative installations. (Ecological statistics based on assumptions of average PLF of 25%, / Key CEA indicators)

Objective of Intervention

A vision of Mr Tanti to convert an arid land to a power generating wind park. The current installed capacity as on March 31, 2015, is 1081 MW and Suzlon plans to expand the installations to ~2000 MW

Type of Intervention and Location

Suzlon commissioned its maiden WTG of S97 2100 kW, DFIG, STV by implementing its pioneering 120m Lattice/Tubular Hybrid Tower Technology in Kutch. This is the tallest hybrid tower in the country installed in Kutch.

Description of Intervention

Name of Cluster wind farms: Amaliyara, Sinoi, Shikarpur, Lathedi, Changdi, Bhada, Nanisindhodi, Jakhau, Vanku, Jamanwada, Suthari, Kadodi



Terrain Geography: Kutch District is surrounded by the Gulf of Kutch and the Arabian Sea in south and west, while northern and eastern parts are surrounded by the Great and Small Rann (seasonal marshy wetlands) of Kutch.

Project Commencement year: First turbine of capacity 1250KW commissioned at Lathedi (Sec-Changadai) on December 31, 2005 for client: Gujarat NRE Coke—a major mining Corporate House Notable Corporate Houses & Public sector units who have installed Suzlon WPP in this wind park

Significant Milestones:

- One of the world's largest Windpark with over 1GW Wind Power projects
- Suzlon secures India's single largest order from DLF for installations in this Windpark
- Commissioning of first 2.1 MW WTG in India
- Suzlon commissions its First WTG of 600kW make using Concrete Tower technology
- Maiden Commissioning of its newly launched S95, 2100 kW, DFIG, STV turbine in Kutch
- Suzlon commissions its maiden WTG of S97 2100 kW, DFIG, STV make using its pioneering 120m Lattice/Tubular Hybrid Tower Technology in Kutch. This is the tallest tower in the country.

Intangible or Tangible Benefit

The benefits of the projects usually accrue after 5–6 years of installing the turbine. The Kutch wind park with its current installed capacity of 1081 MW = Approx. INR 6500 crores

- Estimated CO2 emission reduction: 2.3 Million tonnes per annum
- Estimated Coal Savings: 1.70 Million tonnes per annum
- Equivalent number of trees planted: 195 million trees

Data recorded from Jamanwada (Reference Met mast: MNRE data)

About Suzlon Energy

The Suzlon Group takes pride in creating enduring value through sustainable development. It strongly believes in connecting its core capabilities to provide optimum wind power solutions. The Group is one of the world's leading Wind Turbine Manufacturers. Apart from being a technology leader, Suzlon endeavours to protect the environment, strengthen communities, and propel responsible growth—a paradigm of Corporate Social Responsibility. The Group has long been driven by the concept of sustainable development, its wind turbines spread across the globe, standing as sentinels of a pollution free environment we can bequeath to the next generation.



Suzlon is a market leader in India with a global footprint across Asia, Australia, Europe, Africa, and North America and South America. Over the past two decades, Suzlon has built and consolidated its presence in 19 countries, by crossing 14,600MW of wind power installations globally. Suzlon's global wind installations help in reducing 44 million tons of CO2 emissions every year. The company has 14 manufacturing facilities spread across India, China (Joint Venture), and USA. Having a dynamic workforce of over 6,900 employees from 19 nationalities, Suzlon is proud to support a culture in which employees are respected and empowered as the company's most valued assets.