



VCS | VERIFIED
CARBON
STANDARD
A Global Benchmark for Carbon



Maharashtra Wind power, India

Thanks to carbon finance, the wind energy industry in India is rapidly developing, introducing an environmentally sound and cost-effective alternative source of energy to feed the country's growing demand for power.

Location



The Maharashtra Bundled Wind Project is located in Stara, Sangli, Nasik and Ahmednagar Divisions of Maharashtra, India's second most populous state. Maharashtra contains India's most industrialised region, the Mumbai-Pune belt, but also large rural areas, with 64% of the total population still employed in agriculture. Whilst it is among the richest states in India in terms of income per capita, there are severe urban-rural disparities within the state, and the incidence of poverty remains close to the national average, with an estimated 30% of the population living below the poverty line.

Project



The project comprises 55 wind turbines, manufactured by Enercon India Ltd. Some of these are located in small wind-farms, while others are standalone turbines located at suitable manufacturing and industrial facilities where they provide clean, cost-effective electricity for on-site consumption and feed excess power into the local grid.

In total, the project generates approximately 77 GWh per year of emission-free power, reducing the consumption of fossil fuels and contributing to India's progress towards a sustainable future.



Project achievements



Socio-economic impact:

- The implementation of the project has resulted in improved access to electricity for local communities and a more stable and reliable power supply, in areas where typically access to electricity is restricted and the supply is frequently disrupted.
- Improved access to electricity brings significant benefits to local people - for example by providing artificial light after dark, which facilitates studying and reading.
- The improved quality of electricity supply also supports the development and growth of local businesses and industries, which in turn results in increased local employment and broader economic development.
- The project has created direct employment and skills-development opportunities in its construction and operation.
- It has also led to upgrades to roads and other infrastructure in the project areas.

Environmental impact:

- The project involves use of renewable energy source for electricity generation instead of fossil-fuel based electricity generation, thereby reducing greenhouse gas emissions
- Thanks to the replacement of fossil fuel based power generation, emissions of associated air pollutants such as NO_x and SO₂ are being avoided.
- The development of renewable energy infrastructure also reduces the environmental impacts of fossil fuel mining, processing and distribution.

Checklist Project 301 523

✓ Additionality and permanence:	according to the rules of the VCS
✓ 3 rd party verified::	TÜV Nord
✓ Transparency:	provided by Markit Environmental Registry
✓ Annual CO ₂ reduction:	63,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

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