



Sustainability action · Project Renewable Energy and Energy Efficiency

Renewable Energy Project by LNB Group, India

Thanks to carbon revenues, the wind and solar energy industry in India is rapidly developing, introducing an environmentally sound and cost-effective alternative to feeding the country's growing power demand.

Project

The total installed capacity of the project is 27.20 MW; which involves 4 sites of 18 Wind Turbine Generators with total capacity of 22.20 MW and 1 Solar power plant with total capacity of 5.50 MW located at different states; Rajasthan and Maharashtra in India. The purpose of the project activities is to generate energy electricity by the utilization of wind velocity/solar power and further selling the generated energy to the respective Grid. In this process there would be no consumption of any fossil fuel, thereby any greenhouse gas emissions. Thus, electricity would be generated through sustainable means without causing any negative impact on the environment. The estimated total GHG emission reductions for the chosen 10-year

crediting period will be 470,550 tonnes of CO₂. The area around the solar power project was approved by the government of Rajasthan for the construction of a number of large-scale solar systems and was leased to several investors. The 45,000 modules needed for the project were manufactured by Tata Power Solar' manufacturing facility in Bangalore. "We are bullish on the solar industry and aim to play a significant role in India's solar journey. We therefore look to partner with companies who bring tremendous value in the form of quality and performance," Shreyash Bangur, Director, L N Bangur Group, said. The project owner plans to commission 100 MW of wind and solar projects over the next 2 years across India. The Company partners with leading global solution providers in both wind and solar energy for enhancing it's capacity requirements. The project activities represent a truly holistic approach to mitigate climate change, contribute to environmental protection, and support rural communities. These activities would not be possible without additional funding from carbon revenues, which help the project to overcome risks and hurdles from heavy regulation.

Checklist	Additionality and permanence	3 rd party verified	Transparency	Annual CO ₂ -reduction	Social and environmental benefits	Marketing material
Project 301 778	According to the rules of the VCS	By EPIC Sustainability Services Pvt. Ltd.	Provided by Markit Environmental Registry	47,055 tCO ₂ e	As documented in our database	Pictures available



Location

The solar park is located at in the Rajasthan Solar Park in a desert region near the city of Bhadla, Rajasthan, close to the Pakistani border. The four wind farms are situated in the states of Maharashtra and Rajasthan.

Project achievements

Socio-economic impact

- The villagers around the parks are dependent on agriculture and grazing of cattle. With the advent of wind turbines in the area, employment opportunities (mostly in construction and maintenance) as well as the basic standard of life have improved.
- The project is supporting initiatives that increase awareness of preventive and curative health services. 2 health camps are hold each year on different villages in the project area and blood donations campaigns are organized on a yearly basis.
- Roads and drainage systems in the vicinity of the wind farms have been improved, easing the locals' daily lives and strengthening the local economy.
- In several initiatives, decentralised access to drinking water is supported.

Environmental impact

- Apart from the reduction of GHG emissions, the project significantly reduces SOx and NOx emissions;
- Since, the project uses only biomass materials for power generation; it reduces the demand for energy generation through fossil fuels such as coal, lignite, gas and oil.

