



Bundled Wind Project, India

With oil and gas prices soaring amid deepening uncertainties, renewable energy, particularly wind energy, is emerging as a bright spot in the global energy economy. Wind energy is rapidly developing and introduces an environmentally sound and cost-effective option for remote power generation.

The Locations



The project consists of different small-scale wind farms, located in rural regions of India's Southern provinces of Karnataka and Tamil Nadu, and in its Western provinces of Gujarat, Rajasthan and Maharashtra.

GHG emission reductions are achieved by the replacement of fossil fuels currently used in the Indian power generating system and by providing rural households with clean energy to avoid firewood consumption.

The Projects



The project activity involves more than a hundred wind turbines located in rural areas in Maharashtra, Rajasthan, Gujarat, Karnataka and Tamil Nadu, in India. The total installed capacity is equal to 75 MW.

The electricity generated by the wind farms is supplied to the national grid which, in turn, distributes the power to the end users.

The project displaces electricity produced through the combustion of fossil fuels, avoiding the emission of about 140,000 tons of CO₂ per annum.



The main purpose of the project activity is to generate electrical energy through sustainable means, using wind power resources. The output is both sold to the grid and used for captive consumption.

Not only does the project make use of renewable energy, it also promotes this technology in a region which is in need of sustainable development – socially, environmentally and economically.

Emission trade revenues will significantly help such projects to overcome current barriers and risks posed by heavy regulation.



The Benefits

Apart from global warming mitigation this project has brought the following benefits to local communities:

- Improving health and safety of workers through joint industry cooperation program.
- This project provides out environmental benefits for the country's air, soil and water resources. As compared to conventional power plants, the project reduces CO₂, SO_x, and NO_x emissions significantly, thus mitigating air pollution and its adverse impacts on human health.
- Replacement of wood combustion in households through clean electricity leading to better air quality and reducing erosion in the affected regions through forest recovery.
- Educational and vocational training for students and women around basic technology.
- Improving roads and drainage in the neighbourhood of the wind farms.
- Villages covered by decentralized drinking water revival and medical services.
- Construction of a temple on the wind farm site.
- The region's infrastructure has improved thanks to the project activity.
- During construction, the project generated considerable employment opportunities for the local population. Necessary maintenance offers regular and permanent employment opportunities.
- The project helps subsidize training for students and women on the utilization of renewable energy.
- Villages have been covered by dedicated programs promoting access to decentralized potable water systems as well as access to medical services.





- Roads and drainage systems in the vicinity of the wind farms have been improved. The local economy benefits from the project's output and from the transfer of both knowledge and technology.
- Wind power contributes to resource conservation and produces zero solid-waste end products to be disposed of.
- Ambulance for health care of employees and villagers.
- Work for women promoted.
- Developing products and improving income of traditional artisans.
- Advanced livelihood training for students for employability.
- Support for girls to complete 5th standard schooling.
- Civic amenities Economic support is provided to girls in order to allow them to complete the 5th grade.



KEY DATA

Average Emission Reductions per year: 140' 000 t CO₂e
Standard: VCS 2007



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