



Wind power, India

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

Location



The 22 wind turbines are located in the district of Tirunelveli in India's southernmost province Tamil Nadu. Life in this rural region is typified by agriculture.

Project



This clean energy project has been set up in an attempt to avoid the building of new thermal power plants. These had already been planned, and were foreseen to supply the power-deficient southern grid with fossil fuelled energy.

The villagers are appreciative of the new employment opportunities that have been generated by the project. With the advent of sustainable technologies in the area, the basic standard of life has improved. The local farmers can continue grazing their cattle and goats on the grounds of the wind farm and experience no negative impacts from the project.



The project activity not only delivers emission-free energy to the grid, but it is also concerned with sustainable development of the rural region in which the wind turbines are located. For example, a programme aimed at improving current health, education and employment situations is receiving support, thus providing the affected communities with long-term benefits. Improvements in the local infrastructure such as roads, bridges and access to drinking water, improve living conditions and enable local small-scale economies to develop. In another initiative, several schools have received support to renovate and upgrade their buildings.

The project therefore represents 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.

Project achievements



Socio-economic impact:

- The villagers 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 regional health situation is taken very seriously, which is why the project is supporting initiatives that increase awareness of preventive and curative health services.
- A dispensary has been financed to address basic medical needs of the villagers.
- An ambulance has been financed to serve employees and the local population.
- 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.
- Several schools in the region have received funding to renovate and/or upgrade their school buildings. This helps boost education.

Environmental impact:

- Additional planting of trees on project sites also contributes to better air, water and soil conditions.

Checklist Project 301 261



✓ Additionality and permanence:	according to the rules of the CDM and VCS
✓ 3 rd party verified::	DNV
✓ Transparency:	provided by the NYSE Blue APX
✓ Annual CO ₂ reduction:	80,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

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