



Wind bundle, India

Not least thanks to carbon revenues, wind energy in India is rapidly developing, introducing an environmentally sound and cost-effective option for clean power generation whilst at the same time, local economic development is supported.

Locations



The project is a bundle of several different wind farms, spread over the Southern provinces of Karnataka and Tamil Nadu and the Western provinces of Rajasthan, Gujarat and Maharashtra. Located in rural regions, roughly all along India's west coast, they provide sustainable power to the country's growing economy.

Project



India, in heavy need of sustainable development on its way to a modern country, is more and more embracing clean technologies such as wind power to feed its growing economy's need for stable electricity. This bundle of small and middle sized windfarms not only delivers emission free energy to the grid, the different project owners are also concerned with sustainable development of the rural regions their wind turbines are located in.



Several local and regional programs which are aimed at improving the current health, education and employment situation receive support, providing communities with long term benefits such as scholarships, vocational trainings, and health care. Improvements in local infrastructure such as roads, bridges and access to potable water benefit local living conditions and enable local economies to develop. Thus, the project activity represents a 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 overcome current risks and hurdles from heavy regulation.

Technically, the project activity involves more than a hundred wind turbines with a total installed capacity of about 75MW. The electricity generated by the wind farms is supplied to the national grid, avoiding up to 140,000 tons of CO₂ per annum.

Project achievements



Socio-economic impact:

- During construction, the project generated considerable employment for the local population, while necessary maintenance offers regular job opportunities on a permanent basis.
- Roads and drainage systems in the vicinity of the wind farms have been improved by the project owners, easing the locals' daily lives and supporting local economy.
- Decentralized access to potable water is supported.
- Funding is given to a manufactory of tricycles and walking frames to help the disabled and foster sustainable development.
- Health care is a priority in the project activities, e.g. an ambulance has been implemented for employees and local population in one of the project regions.
- The Gramya Vikas Trust receives funding for medical services such as regular health care, immunization and check ups for pregnant mothers and children under 5, and birth certificate provision by creatively incorporating an immunization card Work for women and education for girls is promoted, e.g. through economic support provided to allow girls to complete the 5th grade. Training is given to women to equip them with entrepreneur skills.
- At present, scholarships have been given to already 855 students from the project region to improve the general level of higher education.
- At one of the project sites, a program for more than 150 local artisans has been set up, increasing their income by about 30%. Equipped with raw materials, educated about new techniques, and supported in economic questions, they developed new product lines which enabled them to enter new markets.
- In a self-help program supported by the project owner, more than 1600 trees have been planted, and kitchen gardens rejuvenated; in addition, farmers have been taught in animal and birds disease prevention and treatment, and quality seeds supplied.

Environmental impact:

- The replacement of wood combustion in households through the provision of clean electricity is reducing deforestation and erosion in the affected regions, and improving air quality.
- Additional planting of trees on project sites also contributes to better air, water and soil conditions.

Checklist Project 300 490



✓ Additionality and permanence:	according to the rules of the VCS
✓ 3 rd party verified::	TÜV Nord/, SQS
✓ Transparency:	provided by Markit Environmental Registry
✓ Annual CO ₂ reduction:	55,700 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

For further information and to learn about availabilities please contact:

South Pole Carbon Asset Management Ltd., Sales Department
sales@southpolecarbon.com +41 43 501 3552

www.southpolecarbon.com

Zurich · Bangkok · Beijing · Hanoi · Jakarta · Johannesburg · Medellin · Mexico City · New Delhi · Taipei

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