

RENEWABLE ENERGY – WIND POWER, INDIA



Project Type:	Renewable Energy
Project Name:	Bundled Wind Power Project, Bangalore
Region:	Located near Bangalore, southern India
Project Description:	<p>The project has been undertaken to harness the available wind power potential. Forty nine (49) wind towers with 29 owners across the southern Indian states of Tamil Nadu and Karnataka have an aggregated total installed capacity of 38 MW.</p> <p>The project will generate approximately 90 million units of electricity per annum, which will be entirely sold to the State Electricity Boards.</p> <p>The project will help in greenhouse gas emission reduction by replacing grid based</p>

	<p>electricity predominantly generated by non-renewable, carbon intensive fuel based power plant in India's Southern Grid. There is also a significant deficit in the grid. The project is a green field project and aimed at utilising wind energy to produce power.</p>
Co-Benefits:	<p><i>Social:</i></p> <p>The project has created employment opportunities to the community during construction, operation as well as for the long term maintenance. The local workforce technical skills and knowledge will improve thus leading to capacity and knowledge building. Also, the project has led sustainable development of non-conventional renewable energy technology for production of power. The infrastructure in and around the project area has been improved due to project activities. This includes development of road network and improvement of electricity availability in the region as the electricity is supplied to Southern grid.</p> <p><i>Economic:</i></p> <p>The generated electricity will improve the grid frequency and availability of electricity to the local consumers which will provide new opportunities for industries and economic activities to be setup in the area. The project also leads to diversification of the national energy supply, which is dominated by conventional fuel based generating units.</p> <p><i>Environmental:</i></p> <p>The electricity generated will be supplied to southern grid, which otherwise would have been generated by fossil fuels. The project will help in reduction of the greenhouse gas emission (CO₂) and other air pollutants (especially NO_x and SO₂). The project helps in conservation of depleting fossil fuels such as coal, oil and natural gas.</p>
Standard:	Verified Carbon Standard
Vintage:	2012-13
Annual Emission Reductions:	83,350 tCO ₂ e per year (average)