

## RENEWABLE ENERGY – WIND POWER, TURKEY



<b>Project Type:</b>	<b>Renewable Energy</b>
<b>Project Name:</b>	Canakkale Wind Power Project, Turkey
<b>Region:</b>	Located between the villages Mahmudiye and Üvecik, in Western Turkey
<b>Project Description:</b>	The purpose of this project is to produce renewable electricity using wind as the power source and contribute to Turkey's growing electricity demand through a sustainable, environmentally friendly and cost effective way. 13 wind turbines were installed in 2010 with an installed capacity of 29.9 MW generating

	<p>(on average) 91,570,000 kWh of electricity a year.</p> <p>The electricity is transmitted to an existing substation at Çanakkale Natural Gas Fired Power Plant via an underground power line.</p> <p>The project will displace the same amount of electricity generated by the grid dominated with fossil fired power plants.</p>
<p><b>Co-Benefits:</b></p>	<p>This project contributes to Sustainable Development in the following ways:</p> <ul style="list-style-type: none"> <li>• Lowering the dependency on imported resources such as natural gas and oil.</li> <li>• It slows the increase in carbon dioxide emissions per capita (a 10% increase in CO<sub>2</sub> emissions per capita has been recorded in the Republic of Turkey between 1995-2003).</li> </ul> <p>The project has undergone independent audits where the following reviewed and reported on:-</p> <p>Environmental and social impacts, community benefits, training for OH&amp;S, social security and residential records of employees, monitoring equipment (including calibration of measured, generated electricity) and stakeholder engagement (with both nearby villages) including addressing employment opportunities and noise impact.</p> <p><i>Social:</i></p> <p>The project has created employment opportunities to the community during construction.</p> <p><i>Environmental:</i></p> <p>The land which is used for the installation of wind power tribunes can continue to be used for farming and cattle grazing. Birds and bats continue to be monitored year 1 and 2 for any deaths found near the turbines. A detailed flora and fauna survey was conducted and the species in the project site were identified. As a result of this study, no threatened or endangered flora or fauna species were determined in accordance with Red Data Book and Bern Convention and IUCN Red list. No bird migration routes pass through the project site and No Important Bird Areas or wetlands are identified within the project site and its vicinity as well. In order to minimize the risk of collision, wind turbines will be painted and lighting will be installed.</p> <p>250 trees were planted by the project to compensate for the few olive trees that were cut down and financial compensation given to affected villagers.</p>
<p><b>Standard:</b></p>	<p>Gold Standard VER</p>
<p><b>Vintage:</b></p>	<p>2014</p>
<p><b>Annual Emission Reductions:</b></p>	<p>83,350 tCO<sub>2</sub>e per year (average)</p>