

GUARAS WIND FARM BRAZIL

**Clean energy to power over half a
million Brazilian homes**



The Guaras Wind Farm project comprises six wind farms and 90 wind turbines with a total installed capacity of 180 MW. It not only provides a renewable energy alternative to northeastern Brazil, but also creates opportunities for sustainable development in the communities in which it operates.

The Context

As industries in Brazil expand, so do the country's energy demands. More than ever, there is a need for sustainable development projects, not only to meet infrastructural needs, but to ensure that Brazil can transition to a low-carbon economy in the future. If it wasn't for the generation of wind energy in Bahia where this project is located, energy rationing would be necessary for the entire northeastern region of Brazil.

The Project

The project consists of 90 wind turbines (aerogenerators) of 2 MW each across more than 40 km of land. The six wind farms operate with a total combined capacity of 180 MW and are capable of supplying up to 500,000 homes.

The Benefits

By providing a viable alternative to the burning of fossil fuels, this project is contributing to climate mitigation on a global scale. Beyond this, the wind farms contribute to the sustainable development of local areas in several ways. Clean and renewable wind energy reduces noise and pollution levels that would otherwise have been generated by coal fired plants. Conservation is promoted via the recovery of degraded land and monitoring of local flora and fauna. A 300 metre artesian well has been constructed to provide clean water to the area surrounding one wind farm and a history appreciation program facilitated by the projects aims to strengthen the dialogue and the relationship within participating communities.

Promoting sustainable energy alternatives to burning fossil fuels in Brazil

Commercial Operation Date

August 2015

Total capacity

180 MW

Quality Assurance and Verification

Issued by Instituto Totum, Brazil

Reportability

Meets GHG Protocol criteria



**167,800
MWh/year**

clean energy generated from wind,
providing a clean alternative to the burning
of fossil fuels

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Official name: Vento dos Guaras | Energias Renováveis SA