

Renewable Energy Project



Damao Wind Power Project

This project generates clean energy from 40 new wind turbines in China. The total emission reductions are estimated to be 100,000 tCO₂ equivalent, verified to the Gold Standard.

Technology partner

Honiton Energy (Baotou) Co. Ltd.

Country

China

About your project

Located in Inner Mongolia, these 40 new wind turbines have a total potential capacity of 50MW of clean electricity which feeds into the North China Power Grid. The project displaces electricity which would otherwise have been drawn primarily from fossil-fuel fired power stations connected to the grid. In turn, this reduces CO₂ emissions along with other harmful pollutants such as sulphur dioxide, nitrogen dioxide, dust and solid waste.

Damao is part of the world's biggest wind power project, providing a very visible example of a clean alternative to traditional power generation. Currently coal fired power plants account for almost 80% of total electricity in China, so projects like this are important to accelerate the commercialisation of grid connected renewable technologies.

The Gold Standard requires project developers to hold two rounds of stakeholder consultations: one before construction and one at the time of operation. As such, Honiton Energy met with local residents, businesses, schools, governments and not-for-profits for their counsel, resulting in strong support for the project. Additionally, the project had to go through a rigorous environmental assessment to minimise any environmental and social damage.

Beyond the climate change benefits, the project will create around 20 long-term jobs and over 100 temporary employment opportunities during construction. Workers will receive substantial, ongoing training for the first five years of the project's operational lifetime. The project also boosts the region's economy with materials for the turbine foundations, transmission cables and access roads all being sourced locally.



These images have been provided by individuals working with the project partners

How carbon offsetting helps the project

It can be expensive to develop and operate renewable technologies and that is where carbon finance can play a critical role. It provides an additional revenue stream helping to make emission reduction technologies an attractive and viable option. Energy generated from older, more polluting technologies can be displaced by using cleaner, renewable technologies, in this case wind power. The reductions in CO₂ emissions achieved by a project are measured by an independent verifier to internationally recognised standards, and bought as 'carbon credits' by clients of The CarbonNeutral Company to 'neutralise' their own emissions.

The Gold Standard requires that projects pass "additionality tests" in order to result in verified carbon credits. These tests demonstrate that the project would not have happened in the normal course of events without carbon finance.

In this case it was determined that the project would not generate an internal rate of return sufficient to justify the necessary capital investment without the inclusion of carbon finance.

Verification:

This project is being verified to the voluntary Gold Standard. A copy of the documents relating to this project can be found within the project registry of CarbonNeutral.com



Project area co-ordinates:

The project is 30km to the northwest of Bailingmiao town, Damao County, Baotou City, Inner Mongolia Autonomous Region of People's Republic of China. It is located at latitude 41°51'39" North and longitude 110°12' 52" East.