

InfraVest Guanyin Wind Farm Project - Taiwan

Non-Technical Summary

Instruction

The wind farm is constructed and operated by InfraVest Wind Power Group (hereafter InfraVest). The project comprises 19 Enercon E70 wind turbines, each having a capacity of 2.3MW. At full capacity, the aggregated output of the project is expected to be of 142,866 MWh/year, which is to be delivered to the regional state electricity authority, Taipower. Accordingly, the project will lead to carbon dioxide emission reduction since it will avoid the use of fossil fuel in the electricity generating system. The annual emission reductions are estimated as 94,291tCO₂e/year.

The wind farm is located in Guanyin Township, Taoyuan County, West Taiwan.

The proposed project activity is distributed in this zone which is at the geographical position of 25° 2'39.69"N, 121° 4'53.51"E. The location is depicted in the map shown below.



Picture 1.: Location in Taiwan



Picture 2: Location of the Guanyin wind farm.

Contribution to sustainable development

The project contributes significantly to the region's sustainable development.

The specific goals for the project are to:

- reduce the greenhouse gas emissions in Taiwan by replacing fossil fuel

based power generation;

- produce clean, renewable energy that contributes to alleviate the global warming;
- contribute to the development of the wind energy sector in Taiwan;
- provide clean electricity of equivalent 38,654 households' 1 annual demand to the grid;
- create local employment both during the construction and operational phase;
- technology and know-how transfer as the employees are trained by German wind turbine manufacturer Enercon on maintenance, safety and operational issues;
- contribute to the reduction of pollutants such as sulphur dioxide, nitrogen oxides and particles resulting from the electricity generation from fossil fuels in Taiwan;
- contribute to Taiwan's energy sustainability and security by reducing the dependency on fossil fuel imports

Gold Standard

The project will apply for the Gold Standard project. The Gold Standard (GS) is an award winning certification standard for carbon mitigation projects and is recognized internationally as the benchmark for quality and rigor in both the compliance and voluntary carbon markets. The Gold Standard organization sets a framework –following the schemes defined by the Kyoto-Protocol for the international trading of emission reductions for the generation and trading of certificates attesting emission reductions achieved by a project. These certificates are purchased by foreign companies and organizations who intend to voluntarily compensate own emissions. InfraVest Taiwan Wind Farms Bundled Project 2012 shall be realized with the help of the Gold Standard approach that leads to an additional income for the clean electricity generation and thus makes the project economically viable.