

**SECTION A. Description of project activity****A.1. Purpose and general description of project activity**

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Samdal Wind Power Project is to build a wind power generating plant on Samdal-ri, Seongsan-eup, Seogwipo-si, Jeju Special self-governing province, the Republic of Korea. The project utilizes wind power which is generating no greenhouse gases emission into the atmosphere. The project is also supporting the government policy to promote new & renewable energy technology in Korea.

It is estimated that the proposed project will generate 88,948MWh per year. The main goals of the project are:

- 1) reducing the greenhouse gas emission in Korea
- 2) utilizing no greenhouse emission wind power to contribute to sustainable development of the local communities

The annual wind speed in the project area is around 7.1m/sec. The capacity of each turbine is 3.0MW at max and the total capacity consisting of 11 turbines for the project is 33MW. The utilization rate of the turbine is 30.7%, so the annual power generation is estimated about 88,948MWh. The project will achieve an ex-ante estimated average emission reduction of 54,276tCO₂ per year over the chosen 10-year renewable crediting period.

The project contributes to the sustainable development of Korea. It is as follow:

- By using electricity generated by wind, it helps to reduce the use of fossil fuel. In addition, it is free from emitting CO₂ and other gaseous pollutants such as NO_x, SO₂, and PM.
- Renewable energy source provides future generation with environmentally friendly fuel alternatives that protect the environment.