First Climate

Egypt

West Bakr Wind Farm Project

Providing Egypt with 252 MW of clean electricity

Emission Reductions	Project Technology	Project Standard
532,000t CO_2 e p.a.	Renewable Energy - Wind	Gold Standard

Between 2009 and 2013, Egypt found itself in the middle of an energy crisis. Political tensions, a deteriorating economy, and a burgeoning population resulted in an insufficient energy supply unable to meet a significant increase in demand. With the country's return to stability in 2014, Egypt has since emerged from the energy crisis and intends to have 42% of its electricity powered with renewable energy by 2035 with wind power supplying at least 14% of the amount.

Today, there is enormous opportunity to expand renewable energy in Egypt — particularly wind and solar energy due to its location and climate. The Gulf of Suez has an average wind speed of 10.5 m/sec., and the areas around the East and West Nile have the potential to produce around 31,150 MW of wind power per year. Positioning wind farms in these areas can have great benefits and support Egypt's transition to renewable energy.

The main purpose of this large-scale project is to generate a clean form of electricity through wind energy for sale of electricity to the Egyptian Electricity Transmission Company (EETC). The project activity involves installation of 96 Siemens Gamesa wind turbines with 2.625 MW capacity each, with an installed capacity totaling 252 MW in Ras Ghareb city, Egypt. The project displaces an average 1,197,600 MWh/year amount of electricity, which is dominated by thermal/fossil fuel-based power plants.

info

about project standards and technologies:
firstclimate.com/tech

Supported Sustainable Development Goals

Sustainable Development

Beyond removing carbon emissions, all our climate protection projects generate multiple additional benefits for people and the environment. These projects support the United Nations Sustainable Development Goals.

7 AFFORDABLE AND CLEAN ENERGY

Wind power is a zero emission source of energy. This project generates 1,197,600 MWh of renewable energy each year and will help Egypt to achieve its goal of 42% renewable energy by 2035.

8 DECENT WORK AND ECONOMIC GROWTH

The project saves natural gas that would otherwise be combusted for power generation, contributing to the diversification of energy sources. It creates new job opportunities and promotes public awareness of renewable energy, specifically wind power.

13 CLIMATE ACTION

The project mitigates local pollution caused by air emissions from thermal power plants. It provides electricity and leads to the reduction of approx. 531,674 t CO_2 per year due to implementation of project activity.

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