



## 45 MW Wind Power Project



### Short Description

The objective of the project is to replace fossil fuel electricity generation by the installation of wind power turbines, thereby reducing GHG emissions.

- Project type: Renewable energy, wind
- Type of certificate: CER
- Quality standard: The project is registered as Clean Development Mechanism (CDM) as of 21 January 2008. In addition, the project has obtained Gold Standard CDM registration.

### Project Background

The project is located in the Fujian province in China. Within the scope of the project activity, 36 wind turbines with 1250 kW capacity each are installed. The wind farm is expected to supply 95,602 MWh of renewable electricity per year to the East China Grid. This clean energy displaces electricity generated from conventional fossil fuel fired thermal power stations, thereby reducing GHG emissions.

The turbines employed in the wind farm are manufactured by Suzlon and have a diameter of 65m. The region is characterized by its relatively high average wind speed, and the turbines are especially adapted to those conditions. When developing the park, the used area was minimised while maintaining the overall effectiveness of the park.

### Sustainable Development

The project was approved under the UNFCCC rules for CDM projects, which ensures rigour in the validation, approval and registration process. The additional Gold Standard registration, the highest quality assurance label on the voluntary and compliance carbon market, certifies that the project contributes to sustainable development and is fully accepted by stakeholders.

China is facing the problems of a rapidly increasing demand for energy and a coal-dominated, and therefore CO<sub>2</sub>-intensive, power generation. Yielding the power of renewable energy sources like within this project activity helps to diversify the energy mix and allows for a sustainable energy supply.

During construction, operation and maintenance, the project activity creates employment opportunities; know-how is transferred, which, in turn, enhances the economic development of the region. Successful projects like this will assist China in stimulating and accelerating the commercialization of grid-connected renewable energy technologies and markets in China.