

## NEFCO Carbon Fund Project Profile: Jiangsu Xiangshui Wind Farm in eastern China

**Project title:** Jiangsu Xiangshui 201 MW Wind Power

**Country:** China

**Project type:** Renewable Energy - Wind

**Emission reductions:** estimated 1,094,000 tCO<sub>2</sub>-eq. by 2012

**Project description:** The project consists of 134 wind turbines with a total installed capacity of 201 MW. The project reduces greenhouse gas emissions by displacing fossil fuel-based energy generation with zero-emission renewable energy in the East China power grid. The Project has been developed as a Clean Development Mechanism (CDM) project under the Kyoto Protocol. It will generate Certified Emission Reductions (CERs) that will be purchased by the NEFCO Carbon Fund (NeCF) on behalf of its investors.



### Project Activity

The project consists of the installation and operation of 134 wind turbines, with a total capacity of 201 MW, in Jiangsu province in the eastern coast of China. The project will deliver to the East China Power Grid over 400 GWh of emission-free electricity annually, which would otherwise be generated with fossil fuels. The first wind turbine will be brought into operation in Jan 2009 and the sets of wind turbines will be put into commission before Jan 1st, 2011.

The project is owned and operated by Yangtze New Energies Development CO. Ltd., one of China's largest energy companies, and it has been developed as a CDM project in cooperation with the Foreign Economic Cooperation Office at the Chinese Ministry of Environmental Protection.

### Technology

The project will utilise modern wind power technology. The 134 wind turbines in total with single turbine capacity of 1500 kW (Model type: FD77A) will be installed for the proposed project, providing a total capacity of 201MW. All wind turbines are manufactured and assembled by China's Dongfang Steam Turbine Manufacturer using advanced Repower technology imported from Germany. Some wind turbine components, i.e. the Central control system and the Monitoring control system are imported from Europe. Other Components, such as blade, gear box, generator, transducer, main bearing and cables, etc., will also be manufactured in China.

### Emission Reductions

By displacing fossil fuel-based electricity generation, the project reduces greenhouse gas emissions by around 400,000 tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) per year, or by more than 2.7 million tonnes over its ten-year crediting period (2009-2015). The NeCF has agreed to buy the first estimated 1.1 million tonnes as CERs which the NeCF investors may use for compliance under the Kyoto Protocol or the EU Emissions Trading Scheme. Such carbon financing helps to boost the economic viability of clean energy investments.

### Project Benefits

Besides global climate benefits, the project offers also local sustainable development benefits by reducing air pollution, creating employment opportunities and strengthening know-how in wind energy in China. The project enjoys strong local support, confirmed by the findings of a stakeholder consultation process. The project's Environmental Impact

Assessment (EIA), which has been prepared and reviewed in accordance with host country legislation, identified no significant negative environmental impacts.

### **Further Information**

For additional information, please visit <http://www.nefco.org/cff>. Enquiries should be addressed in the first instance to:

Mr Ash Sharma  
Senior Investment Manager,  
Carbon Finance and Funds

or

Ms Majja Saijonmaa  
Project Manager  
Carbon Finance and Funds

NEFCO Carbon Fund  
c/o Nordic Environment Finance Corporation (NEFCO)  
P.O. Box 249, FI-00171 Helsinki, FINLAND  
Direct +358 10 618 003  
Fax +358 96 30 976