

# CDM HYDROPOWER PROJECT – TAOHUASHAN, CHINA

## Objective: Renewable hydropower to reduce greenhouse gas emissions

The Hubei Hefeng Yanzi Town Baishun Village Taohuashan Hydropower Station project aims to supply renewable hydropower to the Central China Grid, and displace generation from thermal power plants, thus reducing greenhouse gas emissions.

## Background:

The local energy generation infrastructure is poor and lacks investment. Power demand exceeds power supply. This places a constraint on the economic and social development of the area. Capacity overloads result in power outages. Power generation relies on old thermal power stations - mainly coal-fired - that emit greenhouse gases and pollutants.

## Project description

- > The run-of-river diversion hydropower station is based at Hubei Province. The project employing two 12 MW turbines will supply on average 42,000 MWh per year. The dam site is located at the Jiufengqiao River and the power plant is located on the side of Nandu River.
- > This hydropower station will lead to a reduction in greenhouse gas emissions – especially CO<sub>2</sub> – by avoiding the construction of new fossil fuel in grid based electricity generation.



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**Benefit: The avoidance of 40,000 t CO<sub>2</sub>e per year**

- > The electricity generated by the project will produce zero emissions, and will reduce CO<sub>2</sub> emissions by displacing power generated by thermal power stations in Hubei. The total estimated emission reduction in the first crediting period is 280,000 t CO<sub>2</sub>e up to 2014. The annual emissions reductions amount to 40,000 t CO<sub>2</sub>e.
- > The displacement of thermal power by hydro power will reduce the emissions of harmful gases in this region.
- > The construction of the Taohuashan Hydro power Station will not only supply abundant power for local development of industry and mineral resources, but also help to provide new asphalted streets in the region.
- > It will bring significant benefits to the local economy development, accelerate the development of the services industry and create employment.



<b>Project title</b>	<b>Hubei Hefeng Yanzi Town Baishun Village Taohuashan Hydropower Station</b>
Project type	Hydropower
Host country	China
Project status	Registered as CDM project activity at the UNFCCC since February 18th, 2008
Crediting period:	7 years, renewable Start: February 18th, 2008
Emission reduction start:	April 2007
Average Emissions reductions p.a.:	40,000 t CO <sub>2</sub> e