

CHINA: MAGUAN DALIANGZI HYDRO POWER PROJECT

Kyoto Mechanism:	Clean Development Mechanism
Project Category (UNFCCC):	Energy industries – Renewable Sources
Location:	Daliangzi, Provinz Yunnan, China
Emission Reductions purchased:	510,000 t CO _{2e}



The Maguan Daliangzi Hydro Power Project includes the construction and operation of a 32 MW hydro power plant in Maguan district in Yunnan Province in Southwest China. The hydro power plant is the last of a series of five power plants along the Xiangshui river.

The project consists of the construction of a dam with a summit height of 45 m, a reservoir covering an area of 0.16 km², and the installation of two 16-MW turbines in the powerhouse. The water discharged from the reservoir will be deviated via a 3.9 km tunnel and a 500 m pressure line. The hydro power plant will be connected to the nearest transformation station via a 34 km long 110-kV transmission line.

The annual power production is estimated at around 156 GWh based on 5,460 annual net-hours. The generated electricity will be fed into the southwest Chinese grid thus replacing energy from fossil fuels. The project will generate app. 510,000 tonnes of CO_{2e} till 2012.

Further, the project developer intends to support the local community with 1 Mill. Yuan (app. EUR 100,000.-) for re-cultivation measures. The project will create app. 300 jobs during the construction phase and 30 jobs during operation in the region.

The project owner was supported by an Austrian project developer during CDM project development and utilisation of the emission reductions.

