



## Run-of-river hydro, China

This hydro project is a grid-connected, run-of-river (diversion type) hydro plant that generates clean electricity for Sichuan without the need of a reservoir dam.

### Location



The project is located on the river Guanliao in Yangtzun in the remote and mountainous Ebian area of Sichuan, about 200km from its capital Chengdu. The Guanliao river (92 km in length) is a tributary of the Dadu river, which flows into the Yangtze river, one of Asia's longest and most important rivers.

### Project



As many remote regions, Ebian is in need of sustainable development. The new hydro station not only provides jobs for locals and enables, amongst others, better living conditions and better education through job security; it also fosters local economic development through the contribution to infrastructural improvements, such as road construction, and through the reliable provision of clean electricity without outages.

In all China, fossil fueled electricity, mostly from coal fired power plants, is still the cheapest way to feed the country's growing demand. In this situation, additional funding from carbon revenues play an important role in helping sustainable energy sources become financially viable. The project region does not have noteworthy biomass, geothermal or wind potential, but holds rich hydro power resources from its numerous rivers. The Yangtzun hydro project in the mountains uses the natural flow of water to generate clean energy for the region, without the need of a harmful reservoir dam.



The project activity comprises a 66MW run-of-river hydropower station. Water from Guanliao river is diverted and conducted to a small artificial regulatory pond from where it falls through feed pipes to the turbines. The water then is discharged back into the river.

## Project achievements



### Socio-economic impact:

- Over 60 permanent jobs for locals have been created in operation and maintenance of the hydro plant, and another 100 temporary jobs during the construction phase.
- The project owner contributed to local infrastructure improvements, e.g. road construction.
- The project activity and more reliable availability of electricity lead to investments in the region that otherwise would not have occurred.
- The Yangcun Hydropower Station Project of Sichuan Daduhe Power Co., Ltd. was awarded “2010 China’s High-Quality Construction Award”.
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### Environmental impact:

- The project activity with its catchment structure results in cleaner river conditions thanks to capture and removal of refuse and litter prior to the downstream release of water.
- Avoiding the use of firewood which in the past led to deforestation, soil erosion and respiratory diseases.

## Checklist Project 300 062



✓ Additionality and permanence:	according to the rules of the VCS
✓ 3 <sup>rd</sup> party verified::	by SGS UK
✓ Transparency:	provided by Markit Environmental Registry
✓ Annual CO <sub>2</sub> -reduction:	250,000 tCO <sub>2</sub> e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

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