Sustainability action · Project Renewable Energy and Energy Efficiency

Xenamnoy 1 Hydropower Project, Laos

The Xenamnoy 1 hydropower power facility is a small-scale run-of-river plant that generates sustainable electricity in one of the poorest regions of the world.

Project

The project involves the development of a new run-of-the-river hydropower station. The installed capacity of the project is 14.8 MW, supplying approximately 85'000 MWh of electricity to the power grid. Following the Laos PDR's electrification policy, the increased electricity demand cannot be met locally. Instead, it must be imported from Thailand. Thanks to the construction of this power facility, the electricity import from Thailand could decrease. This would positively contribute to the balance of payments of the country of Laos by reducing foreign currency expenditures.

1077EN, 05.2015

Location

Xenamnoy 1 Hydropower facility is located on the Xenamnoy River, Attapeu Province in the southern part of Laos. Laos is is a Least Developed Country (LDC). It has rich hydropower assets. Unfortunately, the country lacks the necessary economic resources to make electricity services available to everyone, especially for the people living in rural areas.

Project achievements

Socio-economic impact

- **The plant generates 85'000 MWh per year, providing clean electricity to over 42'000 households** (estimate based on average household size of 5.9 persons and per capita electricity consumption of 338 kWh in Laos).
- During construction and operation of the plant plenty of **job opportunities were provided for local residents.**
- T**he local transport infrastructure was greatly improved**: the project owner constructed a new road leading to the power plant. It is open for public use. Besides that, the conditions of several existing roads were improved.
- **The project owner implemented a local water supply programme** whereby a water well was dug and a water pump provided for the villagers.
- **A new temple was built for religious ceremonies** of the local community.
- **The project owner cooperates with the local telecommunication company**, providing electricity to the communication station.
- **The project owner is financially supporting the appointed professional staff of the Agricultural Development Fund**. This Fund introduces modern agricultural technologies to the villagers.

Environmental impact

- Better air quality due to less use of firewood for domestic use. The firewood is replaced by electricity in newly electrified rural areas.
- On average 50'000 tCO2 per year are reduced due to displacement of fossil-fuel electricity generation in the Laos and Thailand connected power grids.




Checklist Project 301393

Commercial Operation Date
24 November 2014

Total capacity
14.8 MW

Estimated Annual Electricity Generation
85'000 MWh

Quality Assurance and Verification
Annual audit by PWC

Transparency
RECs listed in GoldPower Register (http://goldpower.net/goldpowerregister)
Underpinning carbon credits retired in the Swiss National emissions registry

Marketing material
High-resolution pictures available

Reportability
Meets GHG Protocol Scope 2 Guidance criteria

GoldPower credentials projects certified by

The Gold Standard®
Premium quality carbon credits

GoldPower credentials reportable under

WWF · CDP · WINDMADE · RE 100

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