



Sustainability action · Project Renewable Energy and Energy Efficiency

Ban Coc Hydropower, Vietnam

This hydro plant provides a rural region in Vietnam with clean energy. It generates no emissions or waste. In addition to producing clean energy, hydropower is often used for irrigation and water distribution purposes.

Project

In this mountainous region, one can see the benefits of sustainable energy production: until recently, light and heat came from burning wood (which lead to deforestation and soil erosion) or from dirty and inefficient diesel generators.

Now, the use of locally produced renewable energy allows for sustainable development without emissions harmful to people and planet.

The project activity involves a dam, intakes, tunnels, pressurized wells, penstocks, and powerhouse with 3 units, each unit has a turbine and a power generator, and discharge channels in order to convert potential energy from the water stream into clean electrical energy. The emission reductions result from the replacement of carbon intensive coal power – still common in Vietnam – with clean hydropower.

By supplying a stable electricity output, this project supports sustainable economic development of rural villages by improving infrastructure, supplying stable electricity, and generating jobs. Among other concrete benefits, the project owner supports the local authorities with technical equipment such as computers and invested into the local road infrastructure.

Checklist	Additionality and permanence	3 rd party verified	Transparency	Annual CO ₂ -reduction	Social and environmental benefits	Marketing material
Project 301 077	According to the rules of the VCS	By TÜV Rheinland	Provided by the Markit Registry	40,000 tCO ₂ e	As documented in our database	high resolution pictures available



Location

The project activity is located on the Nam Giai river near the Chau Kim commune in the Nghe An province. The project area has a complexity of terrains, sharply split by mountain ranges and river systems.

Project achievements

Socio-economic impact

- 45 new jobs have been created in maintenance and operation, of which 27 are for locals.
- Regular courses on safety and technology are given to the employees.
- The project owner built new roads and upgraded 23 kilometres of existing roads, improving the former low-quality infrastructure systems of the Chau Kim commune, and contributing to economic development.
- Modern telecommunication and water treatment facilities have been installed for the hydro plant and are shared with the local population.
- The project contribute to improve their living standard of local residents living in the project area which are mainly from the ethnic minorities like Thai, Mong and La Ha and fills gap in development between different ethnic groups in Vietnam.

Ecological impact

- The project maintains sufficient flow at the downstream section which secures fish habitat and migration during construction and operation.
- An environmental protection plan secured minimum impact on the environment (dust avoidance, recreation of plant cover, etc.) during both construction and operation phases.
- The decrease of open fires for light and heating leads to less deforestation and soil erosion, while the decrease of diesel generator use improves local air quality and mitigates air pollutants such as sulphur dioxide and nitrogen oxide.

