



Sustainability action · Project Renewable Energy and Energy Efficiency

Za Hung Hydropower, Vietnam

This hydro plant improves infrastructure systems of two communes in Vietnam, where minority ethnics groups are living.

Project

The Za Hung Hydropower plant has an installed capacity of 30 MW. It involves two units of 15 MW capacity each, a dam, a water reservoir of 22 ha, intakes, tunnels, pressurized wells, penstocks, and powerhouse. Each unit has a turbine and a power generator, and discharge channels. The estimated annual electricity generation of 120'246 MWh is supplied to the national grid via a newly constructed transmission line from the plant to a transformer station.





Location

The power plant is located on the A Vuong River near the Za Hung and Ma Cooih communes, in the Quang Nam province in Vietnam. The project area is mountainous and covered by forests. In recent years, Vietnam has suffered a critical electricity shortage as a consequence from rapidly increasing demand and insufficient supply, thereby imposing negative impacts on economic growth as well as on daily lives of people. By exporting electricity directly to the grid, it will help to reduce electricity losses across the national grid and to lessen the risks of cascading national grid

Project achievements

Socio-economic impact

- The plant generates over 120 GWh of clean electricity per year, meeting the electricity demand of approximately 112'000 people (given Vietnam's electricity consumption of 1'073 kWh per capita in 2011)
- 29 new jobs have been created in maintenance and operation, of which 12 are for locals
- The new 110 kV line will reduce electricity losses and improve the electricity quality supplied in the region..
- The plant owner constructed a new road that was integrated into the traffic system of the commune
- Poor households of Ka Dau village received support and gifts
- Plant owner donated money to households of the of Za Hung commune affected by floods in 2008 and 2013. The grant fund of 987,000 Vietnam dong was used to buy boats and telpher systems across the A Vuong river at Ka Dau village
- Financial assistance for the construction of 2 local houses. Ms A Lang Thi Nam and Ms A Vo Thi Dai received financing of more than 10, 000,000 Vietnam dong
- Staffs employed at the power plant are mostly local people from poor educational background

Environmental impact

- The plant 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.
- By generating electricity through hydro power, the plant displaces fossil fuel based electricity from the Vietnamese national grid as well as off-grid diesel generators. The plant reduces a total of 69'309 tCO₂e per annum as well as other pollutants such as NO_x, SO_x and particulates



Checklist Project 300758

Commercial Operation Date

28 July 2009

Total capacity

30 MW

Estimated Annual Electricity Generation

120'246 MWh

Quality Assurance and Verification

Annual audit provided by TÜV NORD

Transparency

RECs listed in GoldPower Register (<http://goldpower.net/goldpowerregister>)
Underpinning carbon credits retired in the Swiss National Registry

Marketing material

High-resolution pictures available

Reportability

Meets GHG Protocol Scope 2 Guidance criteria

GoldPower credentials projects certified by



GoldPower credentials reportable under



thesouthpolegroup.com/renewable_energy

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