



Sustainability action · Project Renewable Energy and Energy Efficiency

Clean hydro power supports school, Vietnam

Hydropower is a form of energy that is generated by the conversion of free-falling water into electricity. It generates no emissions or waste. In addition to producing clean energy, hydropower is often used for irrigation and water distribution purposes.

Project

In Vietnam, the power source of choice remains fossil fuel (mostly coal). To overcome financial and regulatory hurdles, renewable energy projects need the extra funding that carbon trading provides.

The CDM project encompasses two hydropower plants, one on the Dak Pone River, with an installed capacity of 14MW, and the

other on the Dak Ne River, with an installed capacity of 1.6MW. The estimated annual gross power generation is 69,100MWh. By providing this rural region with reliable and sustainable energy, the project activity displaces diesel generators and wood-fired heating and lighting, which leads to better indoor/outdoor air quality and reduces respiratory and eye diseases.

To support sustainable development in the affected communities, the project owner has funded the construction of irrigation canals, bridges and roads. The regional economy has benefited from these investments in infrastructure. The project owner has also funded the construction of a local school, which is providing benefits to local schoolchildren. In addition, the project would not have been financially viable.

Checklist	Additionality and permanence	3 rd party verified	Transparency	Annual CO ₂ -reduction	Social and environmental benefits	Marketing material
Project 300 653	According to the rules of the CDM and Gold Standard	By TÜV Nord	Provided by the UNFCCC Registry	34,000 tCO ₂ e	As documented in our database	high resolution pictures available



Location

The two hydropower projects are located in Kon Plong, a rural district of Kon Tum province in a mountainous region close to the borders of Laos and Cambodia. The sparsely populated region's economy is mostly based on agriculture.

Project achievements

Socio-economic impact

- The project has generated hydropower plant operation/ maintenance jobs for local people.
- 24 operational staff have benefited from six months of capacity building in the form of technical training.
- The construction of a new transmission line is reducing electricity loss and increasing the electricity supply in the region.
- The project owner has improved the former low-quality infrastructure systems in the region, e.g. by upgrading roads, and by building bridges and irrigation canals.
- Thanks to co-funding from the project owner, a local school has been built.

Ecological impact

- The project has provided local farmers with support to broaden their agricultural activities to make them more sustainable (e.g. by implementing aquaculture, which reduces the need for logging for farmland).
- The project has reduced the need for firewood for heating, cooking, and lighting, thus allowing the forest to regenerate and improving soil conditions, hydrology and biodiversity.
- The project has improved regional air quality by reducing the need for diesel generators and wood fires.

