

HSIKOU SMALL HYDRO TAIWAN

Generating clean energy with a holistic water management solution



This project generates renewable electricity from a sustainable resource using hydropower, which is sold to the Taipower Grid.

The Context

Taiwan is a small island. Until recently, coal was used to produce much of their energy, but the reality of climate change has made them rethink alternative clean energy methods. This project was implemented by a local farmers' association who manage agricultural irrigation of rice and other crop fields in rural South-West Taiwan. To help its members carry the water management costs associated with the maintenance of the irrigation system, a small hydropower station was built to make use of water from the association's existing water reservoirs.

The Project

Technically, the project activity involves the development of an 11.52MW grid connected run-of-river reservoir based hydropower plant for the generation of 48,784 MWh of sustainable energy annually, supplying about 7,528 households in the region per year. At the same time, it maximizes the use of the water resources formerly stored for irrigation only.

The Benefits

The project has created local employment both during the construction and operational phase. Technology know-how is transferred to the region and workers gain experience working with power generation from low gradient canals. This initiative contributes to Taiwan's energy sustainability and security by reducing the dependency on fossil fuel imports.

Before the project farmers had to pay yearly for irrigation canals, and now the Hydro plant funds this.

Official Name

Hsikou Hydro Power Project

Commercial Operation Date

2 March 2007

Total capacity

11.52 MW

Estimated Annual Electricity Generation

148,477 MWh

Quality Assurance and Verification

- Project validated and verified by BUREAU VERITAS CERTIFICATION
- Annual electricity verified by grid company

Reportability

Meets GHG Protocol Scope 2 Guidance criteria criteria

UNFCCC/markit/VCS link

http://www.vcsprojectdatabase.org/#/project_details/342



48,784 MWh

of clean energy generated on average annually, contributing to Taiwan's energy sustainability



7,528 households

provided with sustainable energy, promoting cleaner electricity resources

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

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