

Zhongshan County Micro Hydro Project Bundle No.2

Brief description

Zhongshan County Micro Hydro Project Bundle No.2 (hereinafter referred to as “the project”) consists of three small hydropower stations, i.e. Baishijiao stage I hydropower project, Gongtan hydropower project, and Aohua stage I hydropower project of Zhongshan County. All of three stations are located in Zhongshan County, Hezhou City, Guangxi Province. The project utilises local hydropower resources to generate electricity to the local grid. The main purpose of the project is to generate electricity from renewable resources and supplies to the China Southern Power Grid (hereafter referred to ‘CSPG’), displacing the electricity generation from fossil fuel based power plants connected to CSPG, thereby reducing the greenhouse gas (GHG) emissions.

The total install capacity of the project is 2.57MW, the total electricity supplied to the local grid is estimated to be 6,285MWh per annual. In the second crediting period, the emission factor for China Southern Power Grid is 0.4976t/MWh calculated by the Chinese DNA and tool to calculate the emission factor for an electricity system (version 06.0) . Thus the estimated total emission reduction is 3,127 tonnes per annual for the project.

The project makes contribution to the local sustainable development as follows:

1. GHG emission reduction

This project activity achieves greenhouse gas (GHG) emission reductions by avoiding CO₂ emissions, as grid-connected power stations in the CSPG are dominated by fossil fuel-fired power plants.

2. Pollutants emission reduction through replacing fossil fuel combustion

This project replaces grid-connected fossil fuel-fired power plants in the CSPG, and thus reduce fossil fuel consumption and avoid pollutants emission, such as sulfur dioxide, carbon dioxide and dust, etc., brought by fossil fuel combustion. Therefore, this project has obvious environmental benefit.

3. Employment opportunities

This project offers job opportunities for local people.

4. Economy development

The region can achieve economic growth and booming of local tourism through the construction and operation of the project. Furthermore, the project contributes to local government with more tax revenues and poverty eradication.

Project location

The project is located in the Zhongshan County, Guangxi Province. The geographic coordinates for each project is

Project name	Geographic coordination
Baishijiao stage I hydropower project	111°05'46"E; 24°41'17"N
Gongtan hydropower project	110°31'49"E; 24°05'32"N
Aohua stage I hydropower project of Zhongshan	111°12'32"E; 24°41'32"N

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Crediting period

This project has been registered as GS project on 30/04/2013, with ID of 1100. The first crediting period is from 30/04/2011 to 29/04/2018. As the first crediting period will be end, the project is applying for the renewal of crediting period. The second crediting period will start from 30/04/2018.

Other description

There is no change in the second crediting period. The project operation is the same as the first crediting period.