

## **Zhongshan County Micro Hydro Project Bundle No.3**

### **Brief description**

Zhongshan County Micro Hydro Project Bundle No.3 (hereinafter referred to as the proposed project) is a bundle project consists of three hydro power stations. i.e. Zhongshan Dahe Hydropower Project, Liang'an Zhumei Stage II Hydropower Project and Honghuali Beicao Hydropower Project. All of these hydropower stations are located in Zhongshan County, Guangxi Province.

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 2.92MW, and the total electricity supplied to the local grid is estimated to be 6,202 MWh per year. The emission factor for CSPG is 0.4976t/MWh calculated by the Chinese DNA data and tool to calculate the emission factor for an electricity system (version 06.0) . Thus the estimated total emission reduction is 3,086 tonnes per year 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 CO<sub>2</sub> 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 coordinates
Zhongshan Dahe Hydropower Project	111°03'49"E; 24°39'09"N
Liang'an Zhumei Stage II Hydropower Project	111°12'26"E; 24°40'26"N
Honghuali Beicao Hydropower Project	111°09'01"E; 24°38'00"N



### **Crediting period**

This project has been registered as GS project on 23/07/2013, with ID of 1101. The first crediting period is from 23/07/2011 to 22/07/2018. As the first crediting period will be end, so the project is applying for renewal crediting period. The start date of the second crediting period is from 23/07/2018.

### **Other description**

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