
CDM – Executive Board

This Small Hydro Power plant is going to have a reservoir of 1.17 km characterized as a small reservoir, which does not present a significant impact compared to the large hydroelectric facilities.

Moreover, help with regard to improvement in the supply of electricity contributing to environmental sustainability by increasing the share of renewable energy in relation to total consumption of electricity in Brazil. Thus, the project activity supports the construction of new renewable energy project as environmentally sustainable alternative to generate electric energy.

Considering that the project activity consists in a SHP with a small reservoir, it represents a virtually zero environmental impact when compared to large hydroelectric facilities. This fact is important because the construction of Small Hydro Power plants can really contribute to the efficient use of natural resources and environment, thus avoiding the growth of environmental and social liabilities caused by new large hydroelectric plants. In this way, as a factor of relevance to be emphasized, the investment in modern technology for small hydropowers contributes for an efficient use of the water resources, moreover add value to the natural resources.

In regard to the contribution of the project in mitigation of Greenhouse Gas emissions (GHG), the project activity reduces emissions of these gases avoiding thermoelectric plants operation that use fossil fuels as energy source. In the absence of the project activity, fossil fuels would be burned in thermoelectric plants grid interconnected. The project activity initiative helps Brazil to meet its goals of promoting sustainable development.

On the project activity it is also aligned with the specific requirements of the CDM (Clean Development Mechanism) of the host country, because:

- It contributes to environmental sustainability as reduce the use of fossil energy (non-renewable sources). Thus the project contributes to the best use of natural resources and makes use of clean and efficient technologies;
- It contributes to better working conditions and increases the opportunity for employment in areas where the projects are located;
- It contributes to better conditions of the local economy, because the use renewable energy reduces our dependence on fossil fuels, reduce the amount of pollution and the associated social costs related to it.

Moreover, the project diversifies the sources of generation of electricity and decentralized energy generation from bringing specific benefits such as:

- Increased reliability, with shorter and less extensive interruptions;
- Fewer demands related to reserve margin;
- Energy of better quality for the region;
- Minor losses in transmission and distribution lines
- Control energy reactive;
- Mitigation of congestion in transmission and distribution.