



The objective of the project is to generate electrical energy through sustainable means without negatively impacting the environment and to assist in climate change mitigation. Hence, through construction of the proposed project, the following will be ensured throughout its lifetime:

- Sustainable development, through utilisation of surplus biomass residues that are available in plenty in the project region.
- Climate change mitigation, through renewable energy generation and reducing the demand for fossil fuel based power.

View of project participant about the project activity's contribution to sustainable development

Ministry of Environment and Forests, Govt. of India has stipulated the following indicators for sustainable development in the interim approval guidelines for CDM projects.

- Social well-being. The CDM project activity should lead to alleviation of poverty by generation of additional employment, removal of social disparities and contribution to provision of basic amenities and leading to improvement in quality of life of people.
- Economic well-being. The CDM project activity should bring in additional investment consistent with the needs of the people.
- Environmental well-being. This should include a discussion of impact of the project activity on resource sustainability and resource degradation, if any, due to proposed activity; bio-diversity friendliness; reduction of levels of pollution in general.
- Technological well-being. The CDM project activity should lead to transfer of environmentally safe and sound technologies with a priority to the renewable sector or energy efficiency projects that is comparable to best practices in order to assist in up gradation of technological base.

Each of the above criteria is studied in the context of project activity to ensure that the project activity and the project contributes to the sustainable development as described below.

1. Employment Generation:

The proposed 6 MW biomass based power project caters job for many people in various sectors like biomass collection, processing biomass, transportation and in operation of the power plant. Hence proposed project provides employment generation for the local youth. Creation of indirect employment for rural unemployed youth due to new supply chain management of biomass (approx. 450 jobs). Apart from the above said direct employment generation, proposed project also encourages indirect employment by setting up other agro industries due to sufficient power supply from the proposed project.

2. Reduced GHG emissions

The proposed project activity utilises biomass potential available for power generation, which otherwise is dominated by fossil fuels such as coal, lignite and gas, the project will not result in increase of GHG emissions and cause no negative impact on the environment. The project generates real, measurable and long-term emissions reductions.

3. Reducing other pollutants

Biomass could play a major role in production of energy and improve environmental qualities in any regions by reducing emission of GHG and other pollutants into the atmosphere. These gases and pollutants include carbon dioxide, carbon monoxide, nitrous oxide, sulfur dioxide and other suspended particles.

4. Effective utilization of biomass

Biomass based power projects paves the way for effective utilization of biomass for the production of energy which otherwise would have been left for burning in the open fields and left for decay in barren lands, which may lead to release of undesirable pollutants and also create environmental nuisance due to odour problem.

The above benefits due to the project activity ensure that the project would contribute to the sustainable development of the region.