

Project's contribution to Sustainable Development

The Designated National Authority (DNA) for India is Ministry of Environment and Forests (MoEF), called the National CDM Authority (NCDMA), has stipulated four indicators¹ for sustainable development in the interim approval guidelines for CDM projects. The contributions of project activity towards sustainable development are explained with indicators like contributions to socio-economic, environmental and technological aspects as follows:

Social well being:

- The project activity would contribute towards the local employment by employing skilled and unskilled personnel for operation and maintenance of the equipment.
- During civil works, a lot of construction work is to be taken place, which will generate employment for local people around the plant site. This will result in the enhanced employment of the people.
- The project activity shall also generate employment opportunities for transporters who shall be engaged in transportation of biomass from nearby collection centre to the project site.
- Procurement of biomass shall open up an additional stream of revenue for the local farmers.

Economic well being:

- The project will create a business opportunity during construction phase for local stakeholders such as suppliers, contractors, bankers etc. contributing to economic well-being aspects.
- The project would generate employment in the local area, hence leading to the economic prosperity of the local people.
- Procurement of biomass shall provide an additional revenue stream for the local farmers.

Environmental well being:

- The project activity will displace use of fossil fuel based power by renewable energy (biomass based power) and thereby result in reduction of greenhouse gas (GHG) emissions.
- It will also lead to conservation of non-renewable natural resources.
- The project would also reduce pollution in general such as NO_x and SO_x emissions that would have taken place in the baseline.

Technological well being:

The project activity utilizes biomass as fuel to generate steam, which further drives a solidly forged and machined turbine to generate power. The exhaust gas shall be treated with appropriate environmental control equipment in order to remove particulate matter before sending out to the atmosphere. The project activity utilizes environmentally safe technology for meeting the power and process steam requirements at the unit.