

## ***Electricity and Heat from Biomass in Karnataka, India***

*This project is the first of its kind in India. By overcoming the technological challenge of energy generation from low density crop residues the project has a huge impact on rural sustainable development by adding value to locally grown biomass waste.*



The purpose of the project is essentially to utilise the available biomass fuels in the region effectively for generation of power. A pioneering aspect is the utilisation of low-density crop residues as a primary fuel. These low-density crop residues are otherwise burnt/decomposed in the fields resulting in environmental pollution and GHG emissions.

The local population benefits in several ways from this project, located in Karnataka, South India: The project generates 650 jobs in the region. The project contributes approximately USD 1 million to the rural economy each year through the Biomass Supply Chain. From an environmental perspective, it reduces the burning of agricultural biomass, which otherwise would result in high particulate emissions as well as contamination of ground water. As well, the project encourages organic farming through production of organic fertiliser and distributing the same to farmers from whose fields crop residues have been collected.

**Type:** Small Scale CDM Project (Registered in July 2006, Validation by DNV)\*

\*Gold Standard validation in process

**Location:** State of Karnataka, India

**Project Type & Activities:** Generation of electricity and heat from biomass

**Baseline:** Regional electricity grid

**Project Volume:** 163,000 tonnes of CO<sub>2</sub> equivalents

**Implementation Date:** August 2001

**Crediting Period:** 7 years