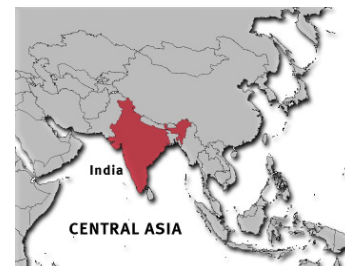




Short description

The project is aimed at the dissipation of methane gas into bio energy. Using modern technology, the methane discharged from the waste water of a sugar plant is captured and utilized for steam generation to operate a turbo generator. Over a period of 7 years, the project generates emission reductions of 313,104 t CO₂e.

- **Project type:** Methane capture
- **Type of certificate:** VER
- **Quality standard:** The project was validated and verified by SGS in accordance with the CDM standards. It is registered by the Executive Board as a CDM project activity and complies with the VCS standard.



Project background

Waste water from sugar plants has a high organic content which requires treatment before discharge. In India, this treatment usually takes place in a system of open lagoons where organics decompose in the open air, releasing large volumes of the potent greenhouse gas methane. The project has used the expected revenues from sales of carbon credits to implement a superior technological solution, which captures the methane in an anaerobic digester and uses it as a bio-fuel for clean power generation.



Sustainable development

The project contributes to energy efficiency by tapping the valuable energetic potential contained in a waste product.

Besides the conversion of methane to bio energy, organic residue from the project process can be used as bio compost that displaces highly energy-intensive inorganic fertilizers. The project serves as a flagship example for the adoption of such innovative measures in similar industries.

The project owner is highly aware of the company's environmental and social responsibilities and well known for its work for the community. It has for example established a foundation actively involved in education, health, hygiene and rural empowerment, set up a number of educational institutes at primary, secondary and professional levels, a mobile medical unit covering about 25 villages as well as Rural Entrepreneurship and Employment Generation Institutes.

