

INDIA: AJBAPUR SUGAR COMPLEX COGENERATION PROJECT

Kyoto Mechanism:	Clean Development Mechanism
Project Category (UNFCCC):	Energy (renewable/non-renewable sources) AMS-I.D., Small Scale CDM
Location:	Ajbapur, Uttar Pradesh
Emission Reductions purchased:	251,991 t CO _{2e}

The Project consists of the installation of a 7.5 MW turbine generator and a step-up station including connection to the Uttar Pradesh grid at the location of DCM Shriram Consolidated Ltd.'s (DSCL) sugar plant in Ajbapur. Furthermore, one of the existing two bagasse-based boilers will be upgraded to increase its capacity.

The entire electricity produced by the Project will be exported to the Uttar Pradesh grid. Steam generated will be used as process steam in the sugar production. Further captive energy demand of the sugar plant is covered by an existing cogeneration unit consisting of two steam boilers and four steam turbines with a total installed capacity of 10.5 MW.

As expected, the Project will generate app. 44,000 MWh_{el} per year. By substituting grid-based electricity, emission reductions equivalent to app. 40,392 t CO_{2e} per year are anticipated. Up to the year 2012, the Project should generate app. 283,000 t CO_{2e} in total.

The sugar plant actively contributes to the economic and social development of the surrounding rural area and the well being of the local population. For example, DSCL offers free medical care including dispensary services for surrounding communities, implements initiatives to provide primary education, health and hygiene in 10 villages and successfully introduced a Green Card System to facilitate the access of farmers to low-interest loans from banks. The Project results in a diversification and increment of DSCL's revenues, thereby enabling the company to maintain and extend its innumerable social contributions.

The Project was registered by the Executive Board of the UNFCCC on May 1st, 2006 (<http://cdm.unfccc.int/Projects/DB/TUEV-SUED1142619739.4/view.html>). Commissioning of the cogeneration plant took place in March 2005.