

## Energy Efficiency Projects

### Kotmar Waste Heat Recovery Project

This energy efficiency project in India captures waste heat at a steel plant and uses it to produce electricity which is subsequently fed into the local grid. The project has generated emission reductions of 74,263 tCO<sub>2</sub> equivalent between 2004 and 2007, verified and certified to the Voluntary Carbon Standard.

Country - India

This energy efficiency project is based at a steel plant near Kotmar, in the central state of Chhattisgarh. Flue gases coming from the kiln were previously vented directly into the atmosphere. The project installs a waste heat recovery boiler which extracts the heat from the flue gases to generate steam. The steam drives a turbine, which in turn generates electricity for on-site use and supply into the local electricity grid. This displaces electricity that would otherwise have been generated by fossil-fuel power stations coal being the predominant fuel in India.

The project also helps meet India's sustainable development needs. It has created employment opportunities for up to 50 people and the project contributes to stabilizing the local electricity supply which helps local economic activity. The waste heat recovery system also leads to lower emissions of pollutants such as sulphur and nitrogen oxides. Without a clear stimulus to implement energy efficiency technologies, such projects would not happen.



324 Kensal Road  
London W10 5BZ

e:sales@couriersys.co.uk

Central London bookings t: 020 7565 1575

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IT & website support t: 020 7565 1526