



# Factsheet

**Region : National Capital Region, India**  
**Project : ECOPROFIT NCR Programme**

**Term: 2005-2006**  
**GTZ Contribution: INR 725,000/-**



## ECOPROFIT NCR Programme

### Scenario

The region surrounding capital of India, known as NCR has observed an accelerated industrial growth in production and service sectors in the past decade. The manufacturing industries are under pressure, due to an overall growth from various quarters, to enhance their productivity every year. The highly competitive environment compels industries to keep production cost stable or low over a longer period of time, which often becomes, rather difficult to sustain considering the ever increasing prices for resources like skilled workforce, raw materials and energy.

On the other hand, laws are getting stringent and so is the enforcement, making situation tougher. Therefore, industries visualize that by arresting the environmental costs, which often goes unnoticed, may not only improve working environment but also reduces overall production cost. However, the target industries either lack in proper knowledge and know-how or its implementation.

The growing market pressure to increase the productivity, reduce emissions and discharges, retain workforce by having good working conditions within the existing setup without much investment is an uphill task.

### Project

The objective of ECOPROFIT is to set up a win-win model that strengthens industries economically by using

environment-friendly technologies and simultaneously improve the ecological situation of the region. It enhances the efficiency of industries, reduces demand of raw materials and energy, and minimizes associated environmental impacts.

This model of sustainable development focuses on the application of preventive environmental strategies by adopting best available measures at various levels like integration of technology, raw materials, processes, waste/emissions, products, business partners and employees.

The project has three basic pillars

- Technical presentations (8-10 modular workshops on specific topics like cleaner production, teamwork, material flow analysis, water, energy, waste, legal



requirements, hazardous wastes, logistics etc.)

- On site consultation and follow up visits (by international and national experts on specific topics to identify, evaluate, implement and monitor the options)
- ECOPROFIT Award (recognition of



efforts after the quantification of associated environmental and economic benefits)

A group of nine industries, from various manufacturing sectors like automotive, confectionery, electrical appliances, electroplating etc., have been trained under the current project. A team from each participating industry has undergone this intensive training, which is responsible to disseminate the knowledge and know-how to other members from time to time to keep a self sustaining force to carry out the activities in future on their own. This provides the continuity to the project even in the absence of external experts/trainers.

The participating companies also contributed two third of the project costs, additional funding was from GTZ ASEM, on a public private partnership basis.

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**SEPIET**



**Energy reduction of 16% for compressed air system just by one option!**

**Ground water reduction by 21.5% by low cost methods!**

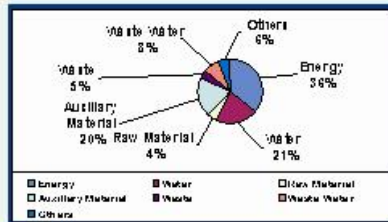
**Reduced packing waste and savings without compromising strength!**



The project outcome will be displayed on a website in order to provide a broader reach to interested industries in future about the experiences, workshop materials, options implemented and also to provide a platform for interactions.

### Impact

The project has created a team in each participating industry which is enabled to take environmental initiatives on their own arising due to their processes and other activities. Besides, it is capable of putting money as a driving force to go for these optimizations and interventions. Out of the project duration the teams from all participating industries, with the support of national and international experts, has identified 235 options in the field of energy, raw materials, water, waste, hazardous waste as shown in the figure below.



In order to make these options more interesting here is a selection of them.

- In a renowned confectionary industry a compressed air system is replaced with micro fans that have a potential saving of 608,865 kWh per year with a very low cost optimization. This energy saving can account upto 450 tonnes of



CO<sub>2</sub> reduction annually.

- In an electroplating industry, a considerable 4,644 cubic metre per year of ground water reduction is possible by installing conductivity based flow meters and further optimization of process and rinse

baths. The further savings of lesser treatment costs at effluent treatment plant and energy consumption are excluded.

- In an industry the packing of fan box (cardboard carton) was reduced from 2 straps to 1 strap that resulted in annual saving of approximately INR 218,600.



More than 450 tonnes of CO<sub>2</sub> reduction in an industry just by a single option!

Fuel saving of over 7300 litres/year by thermal insulation!



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