



1st
INTERNATIONAL WORKSHOP
ADVANCES IN CLEANER PRODUCTION

IV
SEMANA PAULISTA DE P+L
CONFERÊNCIA PAULISTA DE P+L

Cleaner Production applied in the Pre-Printing and Printing Phases in a Graphical Industry

Fátima de Paiva Canesin ^a e Maria Bernadete P. dos Santos ^b

*a. Universidade Federal fluminense, Niterói, Rio de Janeiro.
fatimacanesin@yahoo.com.br*

b. Universidade Federal fluminense, Niterói, Rio de Janeiro. berna@vm.uff.br

Resumo

This work describes the implementation of Cleaner Production (CP) practices in a graphical industry located in the state of Rio de Janeiro-Brazil. Cleaner Production practices were put into practice in a six month period, consisting in phases and steps as established by UNEP. The production of two printed products was considered as study case: individual sheets with an annual production around 3.9 million, and books of 232 pages with an annual production around 12,600 units. Environmental diagnosis phase showed several opportunities for cleaner production in the pre-printing and printing phases related to water and energy consumption, solid waste reduction, effluents and emissions minimization. After implementing some CP practices, it was obtained a reduction of 37% on the effluent generation, 45% reduction in water consumption, and 45% reduction in plate solution reagent used. One of the main operational obstacles faced during CP practices implementation was related to a lack of budgetary forecast to implementation. Also, it was observed an organizational culture not fully directed towards an efficient resource use and the difficulty in implementing projects that generate expenditure increases.

Keywords: Cleaner Production Implementation, Graphical industry, Material reduction, Waste reduction.