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“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

Cleaner Production Implementation within Textile Industry: Economic and Environmental Benefits

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Abstract

This study aimed to analyze the environmental and economic benefits from the Cleaner Production implementation within a furniture industry from Natal-RN. For this, an analysis was made including operational and environmental aspects (process flow diagrams, inputs and outputs information, mass balance, environmental aspect and impact analysis, waste studies) and Feasibility analysis (technical, economic and environmental evaluation, select options for implementation). According the results, it was possible to implement the three levels of CP, through housekeeping practices (cutting and handling of chemicals); technological modification (installation of a pressure washer with the printing of fabrics); internal recycling and external recycling. Regarding economics, there was an annual savings of R\$ 55,946.96, making the company more productive and tend to become more competitive.

Keywords: *Cleaner production, operational and environmental adequacy, Textile industry*
