

"CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD"

Environmental and Economic Benefits in the Implementation of Cleaner Production in a Galvanic Company

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Abstract

The chemical components, base of surface treatment processes generate chemical waste and effluents that will drastically affect the environment and causes serious health problems in the population. The main objective of this study is to show the economic and environmental advantages in the implementation of Cleaner Production (CP) in wastewater treatment in a galvanic plant. In this study occurred on proper disposal of solid waste and water reuse in the production process while eliminating the plastic blister packaging equipment and investment in rationing electricity. In particular it will show the calculation of return on investment and the comparison between the economic and environmental gains resulting from the implementation of Cleaner Production. The results were obtained at first by means of qualitative research, reviewing the literature, then exploratory case study participant observation. In possession of the data, we assessed the economic and environmental advantages. For the evaluation of environmental benefits will be used the methodology of Material Intensity (Wuppertal Institute). The tool was applied to assess the benefits on the scale of the biosphere as a result of emissions reduction intervention on behalf of P + L. *Keywords: Cleaner Production. Economic advantage. Environmental advantage. Galvanic Plant*