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Investigation of solutions of cleaner production in paper making industry, case of the study, latif paper making industry

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The aim of this paper is to determine the solutions affecting water and energy consumption as well as environmental impact in a recycled paper manufacturing by using Analytic Hierarchy Process. The AHP enables one to consider all the elements of decision process in a model, and to compare criteria and sub criteria of the model to find the best alternative. Using a literature review and field study, the proposed model can provide a framework for cleaner production implementation in the industry. The results show that process change gives the highest priority

between five main criteria and that industrial automation and its technology level gives the highest priority among sub-criteria. Regarding the alternatives, reduction of environmental pollutions is the most important solution for cleaner production in the industry. Also, product correction is the most sensitive criterion affecting the alternatives. The paper illustrates how the AHP method can help industrial management to overcome the energy usage and environmental impact in the manufacture.

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