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Environmental performance evaluation – A new tool for the industry

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Abstract

Several tools are available in the literature to evaluate environmental performance. However, there is a lack of scientifically addressed analytical tools focusing industrial processes. Thus, based on a literature review, this study aimed to construct and test a new analytical tool for environmental performance evaluation specifically in the industry. This tool named EPIP (Environmental Performance of Industrial Processes) has as main function to identify environmental aspects with worst performance and to drive decision-making toward environmental improvements. In order to assess the effectiveness of EPIP, this tool was applied in a manufacturing industry packaging yogurt cup. The analysis of the results showed that the environmental aspects with worst performance were related to the thermoforming activities, such as energy consumption, solid waste generation and air pollution emissions. Altogether, the outcomes of this study showed that EPIP is a significant contribution to the industry, mainly those with low level of environmental management maturity, which are starting to move toward the environmental sustainability.

Keywords: *Environmental Performance Evaluation; Environmental Sustainability; Industrial Processes; Environmental Impact Assessment*
