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A METHOD TO INDUSTRIAL SYMBIOSIS APPLIED ON WASTE MANAGEMENT

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Abstract

Sustainability is a subject incorporated in most governments and companies' agendas, as well as in the news and even during casual talks. However, many do not know its real meaning and applicability into the society, economy or into the environment itself. The aim of this work is to analyze the waste produced by a large agroindustry located at the region of Maringá, under the perspective of Industrial Ecology, and present a method of an alternative destination for the waste generated by the company through Industrial Symbiosis concepts. The purpose of this investigation is to offer a different destination to by-products such as, Clarifying Clay, iron scrap, big bags, paper and corrugated cardboard, offering not a final destination, but transforming the waste into raw material of other production processes. This attitude helps the company see the waste managment as an opportunity for new sources of income and as a mean of gaining competitive advantages in the market. As an outcome of the development process it was possible to verify that the chosen tool is very useful and brings significant financial results, such as the reduction of destination expenses by approximately 40% and the reuse of by-products by the own industry.

Keywords: industrial ecology, industrial symbiosis, sustainability

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