Sustainability in the Process of Sugar Cane of Reception in Plant Sugarcane

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Abstract

This study identified the gaps of the segments of the industries with the largest application opportunities of Lean Thinking (PE), so that it could deepen this opportunity effectively by the sugarcane segment, which is included among those who make intensive use of water for the development of their activities, relies largely on the use of water resources, requiring the management of agribusinesses enter the theme in their corporate strategic priorities. This article covered the production process of the plant and the attention back to the sugarcane cleaning procedure on receipt of this raw material, and straw, if separate from reception, could possibly be used as an energy source and, once separated, may also improve the performance of the production process. In this sense, the search for alternatives that eliminate waste in the factories is of strategic importance, and reuse wastewater or replace it with another sugarcane cleaning option becomes a requirement for the development of a sustainable business. The research method used came from an exploratory literature review for the survey of the main concepts of lean production in order to provide the necessary basis for the implementation of Lean Thinking to eliminate waste. For the applicability was conducted a study of multiple cases. The contribution of this work is to point out that the integration of Lean Manufacturing with the Green Manufacturing is a successful way for companies, and analyze through comparative studies, the procedures adopted in the production system that could possibly indicate viable economic solutions in order to support environmental and social gains.

Keywords: *Sustainable Production, Lean Manufacturing, sugarcane plant.*