



3rd
INTERNATIONAL WORKSHOP
ADVANCES IN CLEANER PRODUCTION

“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

The Relations between Maintenance and Enterprise Sustainability Strategies: A Reflective Approach in the Input-Transformation-Output

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Abstract

To reach the sustainable development focused on the production's enterprise sustainability, it is necessary a holistic view that reaches the product and/or the service and the processes and operations in the same way as it reaches all the chain of events, including the systems of the manufacturing of the product in its different life-cycles and the maintenance management system. This requires improved models, indicators for sustainability evaluation and process optimization techniques, product and knowledge of the system levels (entrance-transformation-exit model). This article presents a general view of the new trends and concepts regarding the development of products and sustainable systems considering the relations between the maintenance and enterprise sustainability strategies. In order to reach the article's goals, the research was conducted by a procedure combining two techniques for collection of data: the bibliographical research and the accomplishment of the field work through e-mail exchange with the researchers and specialists to collect their final thoughts regarding the relations between the maintenance and enterprise sustainability strategies. Now, the result is the presentation of an ample view of the relations between the maintenance and enterprise sustainability strategies and the consequences of these relations in the entrance-transformation-exit model in order to contribute with the advance of the use of the enterprise sustainability as a source of competitive advantage.

Keywords: *Maintenance, Productive system, Enterprise sustainability.*

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São Paulo – Brazil – May 18th-20th - 2011