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“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

## Management of the Use of Cooking Oil for Biodiesel Production: A Case Study McDonald's

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### Abstract

In view of the currently rising awareness on the sustainability and environmental questions on the part of the general public, the present work reflects on the importance of implementing an Environmental Management System, both as an image improving initiative, and as a source of financial return, for the companies that decide to take this step, and as a source of environmental benefits for both the company itself and the society it exists within. A case-study was performed to investigate the actuality of those concepts, focusing on the fast-food services sector, McDonald's having been selected as a very representative large company in this sector, which, therefore, presents the ideal conditions for the application of environmental management techniques, in view of the high volume of residues it generates. Hence, the present state of the solution McDonald's has implemented for its management of used cooking oil, which nowadays is integrally converted to biodiesel, in particular, and its policy for residue management, in general, are described and discussed herein.

**Keywords:** *environmental management, sustainability, biodiesel from organic residues*

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