



10th INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“TEN YEARS WORKING TOGETHER FOR A SUSTAINABLE FUTURE”

Adequacy of the food complex of the Goiás Engineering Club to Cleaner Production

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Abstract

Operating with the technologies of Cleaner Production, it has been undertaken an analysis of the production processes of the food complex of the Engineering Club of Goiás (CENG), located in Goiânia, Brazil, in order to indicate the parts of the productive sector that potentially cause environmental and economic impacts. It was adopted a quantification methodology for the food residues generated by the kitchen in a midweek day and a weekend, from preparation and consumption of meals and use of disposable cups and charcoal. After the analysis, alternatives were proposed to optimize the processes, minimizing the problems found, so as to combine economic advantages with ecological advantages, suggesting practices of Cleaner Production associated with Environmental Education. The results showed the need for the adequation of the club's food complex and implantation of Cleaner Production, once it has as its principles the application of Environmental Education, Environmental Management and Sustainable Development. With the demonstration of the viability of projects like this, many productive sectors that do not deal with sustainability for considering it inapplicable will recognize the importance of applying the concept in their services, in addition to using the necessary techniques and tools to adapt themselves into Cleaner Production. By this means, measures are implemented in order to improve the food processing in a sustainable manner and to raise awareness among the community and the employees involved. Furthermore, it is concluded that the productive activity in restaurants, kitchens and cafeterias has potential to implement sustainable practices, using the Cleaner Production program.

Keywords: *Cleaner Production; Sustainability; Restaurants; Kitchen; Food Residues.*