



Academic

INTERNATIONAL WORKSHOP
ADVANCES IN CLEANER PRODUCTION

“CLEANER PRODUCTION TOWARDS A SUSTAINABLE TRANSITION”

Assessing the Application of Cleaner Production Techniques in a Dairy in Southern Bahia

SANTOS, F. F.^{a*}, ANDRADE, R. S.^b, LOPES, R. C. S. Q.^c, ALMEIDA NETO, J. A.^d

^a *Colegiado de Engenharia de Produção, Universidade Estadual de Santa Cruz, Campus Soane Nazaré de Andrade, Rod. Jorge Amado, km 16, Bairro Salobrinho – Ilhéus (BA).*

^b *Colegiado de Engenharia Química, Universidade Estadual de Santa Cruz, Campus Soane Nazaré de Andrade, Rod. Jorge Amado, km 16, Bairro Salobrinho – Ilhéus (BA).*

^c *Departamento de Ensino, Instituto Federal da Bahia, Campus Jequié - Rua Jean Torres s/n - Bairro John Kennedy – Lot. Cidade Nova – Jequié (BA).*

^d *Departamento de Ciências Agrárias e Ambientais, UESC Campus Soane Nazaré de Andrade, Rod. Jorge Amado, km 16, Bairro Salobrinho – Ilhéus (BA).*

* *Fabio Ferreira Santos, fabioferreiraep@gmail.com*

Abstract

The dairy products are of great importance for southern Bahia, because they contribute to the development and regional economic diversification, but it is necessary to be aware of the possible environmental impacts arising from its activities. Given this, the adoption of preventive practices such as Cleaner Production (CP) can contribute the improvement of production processes and provide economic gains, environmental protection and better work environment. Thus, this study aimed to identify techniques and opportunities for cleaner production (CP) in a dairy of the region. For this, we carried out a literature review, technical visits and questionnaires, obtaining information about characterization, CP and Environmental Management, environmental aspects and impacts. The study indicated that the dairy has a high potential polluter, mainly due to the lack of structured environmental programs. However, it was already adopting some environmental practices, such as pluvial water reuse, treatment stations and standard techniques adoption. Furthermore, the study has given the opportunity to find Cleaner production actions that could improve production conditions and organization for long and short lines, associated with the interest of the company in knowing others actions and methods that might contribute to minimizing its impact and propitiate economic gains. Thus, the opportunities presented themselves for CP adequate to company for its level.

Keywords: *Sustainability, environmental impacts, eco-efficiency.*