



3<sup>rd</sup>  
INTERNATIONAL WORKSHOP  
ADVANCES IN CLEANER PRODUCTION

---

“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

## Eco-Efficiency: A Case Study in a Chemical Industry

H. M. de Pinho<sup>a</sup>; M. N. Catanzano<sup>b</sup>; P. J. C. Candeira<sup>c</sup>.

*a Faculdade de Engenharia Celso Daniel, Santo André, heldermpinho@hotmail.com*

*b Faculdade de Engenharia Celso Daniel, Santo André, marcelocatanzano@hotmail.com*

*c Faculdade de Engenharia Celso Daniel, Santo André, pcandeira@hotmail.com*

---

### Abstract

Eco-efficiency is of vital importance for the maintenance of organizations nowadays, not only to maintain an ecologically speech accepted by society, but also because it brings all kinds of benefits. As more companies seek respectability, the better the prospects for growth and environmental integration. Moreover, it is a management tool which main function is the environment preservation. This work addresses questions related to environmental management through a system of eco-efficiency. During the development of this work, a research was conducted at a chemical industry located in a petrochemical pole in Maua city, Sao Paulo State. The methodology was based on a case study, therefore a questionnaire was designed to answer what this organization has done in order to save resources. The results show that this organization has carried out activities related to the topic, although there are great opportunities for improvement in the management system currently applied.

**Keywords:** *eco-efficiency, management system, environment and sustainable development.*

---