



2nd INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

"KEY ELEMENTS FOR A SUSTAINABLE WORLD: ENERGY, WATER AND CLIMATE CHANGE"

LCA of Public Luminaires: Proposal for Mapping Production Flow for Inventory

O. Sanchez Júnior ^a

*a. Instituto de Pesquisas Tecnológicas do Estado de São Paulo, São Paulo,
osanchez@ipt.br*

Abstract

Considering the efforts of the various instances of government and the productive sector to minimize the consumption of electricity for lighting and thereby budget gain, there is a generalization of procedures exclusively towards the replacement of technology from a simple analysis focused only on saving energy. However, there is a number of parameters whose analysis should compose an inventory and thereby assist the decisions of the energy concessionaires of municipality administration, and to subsidize manufacturing projects. This inventory could aid decisions with a focus on sustainability in the use of equipment for lighting and so there would be an aggregation of value and promote greater environmental responsibility within the framework of public policies apply. This paper proposes a mapping of the flow of production of luminaires for street lighting to be used as reference for the application of the Life Cycle Assessment - LCA methodology. With this methodology, the results may provide support for product development from the perspective of sustainability.

Keywords: public luminaires lca, street lighting production inventory.
