



10th INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“TEN YEARS WORKING TOGETHER FOR A SUSTAINABLE FUTURE”

Development of a Questionnaire for the Evaluation of Industrial Symbiosis Indicators

PIERE, B. A.^{a,*}, MANTESE, G. C.^a, AMARAL, D. C.^a

a. *University of São Paulo*

*Corresponding author, brunapiere19@gmail.com

Abstract

The concept of Eco-Industrial Park (EIP) consists in a business community that aims to improve the economic, social and environmental performance through the cooperation and sharing of services and waste among companies, which characterize the Industrial Symbiosis (SI) process. It is possible to find, performance indicators for the measurement and monitoring of symbiosis, however, there is not a consolidated indicator, which purpose is to guarantee the quality, reliability and objectivity of environmental and social impact assessments. This article has as main objective to adapt the criteria proposed by Mantese et al. (2016) in the development of a questionnaire to be applied with specialists in the evaluation of indicators of industrial symbiosis, using the methodology of Cloquell-Ballester et al. (2006) for the validation of environmental indicators by specialists. It presents the developed study and the online form and the results of its test with an expert of indicators. The result shows that the questionnaire is able to be applied and presents the future stages of this research.

Keywords: *Industrial Symbiosis, Validation of Indicators, 3S Methodology*
