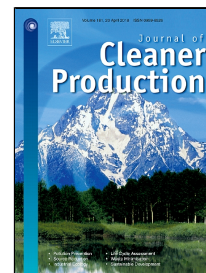


# Accepted Manuscript

Cleaner production as an antecedent for circular economy paradigm shift at the micro-level: evidence from a home appliance manufacturer



Thayla T. Sousa-Zomer, Lucas Magalhães, Eduardo Zancul, Lucila S. Campos, Paulo A. Cauchick-Miguel

PII: S0959-6526(18)30655-3  
DOI: 10.1016/j.jclepro.2018.03.006  
Reference: JCLP 12264  
To appear in: *Journal of Cleaner Production*  
Received Date: 30 October 2017  
Revised Date: 08 February 2018  
Accepted Date: 01 March 2018

Please cite this article as: Thayla T. Sousa-Zomer, Lucas Magalhães, Eduardo Zancul, Lucila S. Campos, Paulo A. Cauchick-Miguel, Cleaner production as an antecedent for circular economy paradigm shift at the micro-level: evidence from a home appliance manufacturer, *Journal of Cleaner Production* (2018), doi: 10.1016/j.jclepro.2018.03.006

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Cleaner production as an antecedent for circular economy paradigm shift at the micro-level: evidence from a home appliance manufacturer

Thayla T. Sousa-Zomer<sup>a</sup>, Lucas Magalhães<sup>b</sup>, Eduardo Zancul<sup>b,d</sup>, Lucila S. Campos<sup>a,c</sup>, Paulo A. Cauchick-Miguel<sup>a,b,c\*</sup>

<sup>a</sup>Post-graduate Program in Production Engineering, Federal University of Santa Catarina, Campus Universitário Trindade, Caixa Postal 476, 88040-970, Florianópolis, SC, Brazil

<sup>b</sup>Post-graduate Program in Production Engineering, University of São Paulo, Av. Prof. Almeida Prado, 128, 05508-070, São Paulo, SP, Brazil

<sup>c</sup>Production Engineering Department, Federal University of Santa Catarina, Campus Universitário Trindade, Caixa Postal 476, 88040-970, Florianópolis, SC, Brazil

<sup>d</sup>Production Engineering Department, University of São Paulo, Av. Prof. Almeida Prado, 128, 05508-070, São Paulo, SP, Brazil

\* Corresponding author. E-mail: paulo.cauchick@ufsc.br

### Abstract

The concept of circularity has been widely discussed in the literature, but the implementation of the circular economy concept at the micro-level remains unexplored. It is still not clear what the antecedents are for circular economy implementation at the industry level. Cleaner production principles and practices have been discussed as essential for circular economy adoption from the bottom up, but more empirical studies are still necessary to better understand the adoption and effects of cleaner production in promoting circular economy. Thus, this paper aims to explore the cleaner production principles and practices adopted by a manufacturing company located in an emerging economy in order to understand how these were valuable in foster circular economy implementation. A case-based research approach was adopted in this investigation. The circular economy practices introduced by the company were analyzed by considering their connections with the requirements when transitioning to a circular economy paradigm, within company-related processes in addition to circular economy areas at the micro-level. An inductive approach was adopted for data analysis to develop some propositions regarding and circular economy interactions. The main findings revealed that cleaner production practices for product optimization are valuable to circular economy implementation regarding circular product design strategies. The cleaner production

Download English Version:

<https://daneshyari.com/en/article/8096557>

Download Persian Version:

<https://daneshyari.com/article/8096557>

[Daneshyari.com](https://daneshyari.com)