



"CLEANER PRODUCTION TOWARDS A SUSTAINABLE TRANSITION"

## A Lean & Green Model for a Value Stream

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## **Abstract**

Following the paper "A Lean & Green Model for a production cell", published by Journal of Cleaner Production in December, 2014 (Pampanelli et al., 2014), the main objective of this paper is to propose the extension of the Lean & Green Model for the second level of flow, the Lean & Green Business Model (L&GBM) for a value stream (VS), understanding its main characteristics and differences. Studies developed confirmed that traditional VS thinking (divided by product families) is not applicable for solving with environmental problems in a manufacturing environment. Following this finding, the L&GBM for second level flow was developed and tested in a single multinational engineering company, including the results of the model application at the value stream level. Such findings confirm that the Lean & Green Model can reduce resources use in a VS level from 2 to 40% and save R\$ 1,5Mi.

Keywords: Lean, Lean and Green, Kaizen, Value Stream