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Modeling the generation of waste electrical household appliances: characterization of the home flow in the city of Campos-RJ

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Abstract

The management of Waste Electrical and Electronic Equipment (WEEE) or electronic waste (e-waste) has been a major concern for urban communities due to the large volumes of waste generated, from the end of the 20th century. In this context, this research seeks to collect important information for the implementation of an embracing and regular system of Reverse Logistics for WEEE in the city of Campos dos Goytacazes - RJ. This information corresponds to an estimation of the potential of generating WEEE (such as, mobile phone, computers and tablets) in the city, characterizing the home flow and its peculiarities. Therefore, was proposed an estimation model based on the indicator of equipment present with the consumer. The data required for this research were collected through the application of questionnaire to a representative and random sample in the city under study. It was observed that the results found support as decisions taken in the WEEE management system. It is important to emphasize that this research was carried out under current sustainability considerations according to which Brazilian solid waste legislation is determined. The results are approximate as global estimates of the specific, researched electronic waste.

Keywords: *Electronic waste, Reverse logistics, Generation models.*
