



“TEN YEARS WORKING TOGETHER FOR A SUSTAINABLE FUTURE”

Intervening factors in the consumption of water in residential buildings in the city of Joinville

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Abstract

This article aims to identify the factors that may influence water consumption in residential buildings in the city of Joinville (Southern Brazil), through the analysis of socioeconomic constructive variables. A non-probabilistic sample was established with the application of a questionnaire with 23 questions to survey characteristics of 47 residential buildings, totaling 1422 residential units. The model describing water consumption was identified from a multiple linear regression analysis. Within the analysis, it was verified that the variables related to the constructive aspects of the building are statistically significant to explain water consumption (m³ / day). However, both constructive and socioeconomic aspects were statistically significant for the water consumption index (liters per person per day). The results contribute to a better understanding of the variables related to water consumption in residential buildings, and may be useful for local government when planning sustainable policies.

Keywords: *Consumption index, water consumption, buildings.*
