



# Accounting 4<sup>th</sup> INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“INTEGRATING CLEANER PRODUCTION INTO SUSTAINABILITY STRATEGIES”

## Environmental Accounting of a Building Used as an English School in Ouro Fino – Minas Gerais

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### Abstract

This paper analyses a building used to hold an English school in the city of Ouro Fino – Minas Gerais. This analysis was made only for the construction of the building using a Brazilian norm that states all the material used to build a house in mass unit per km<sup>2</sup>. Using the methodology in emergy accounting developed by Odum (1996) it shows the percentage of the materials used in the building that holds the English school. According to the emergy analysis it is noted that the material that has been used the most in it is the cement (34.78%) of the total emergy, followed by labor (18.16%), copper (17.70%) and the sand (14.16%). When the analyses is performed by mass unit the material that has been used the most is the cement (48.21%), followed by the sand (35.45%) and the ceramic (4.69%).

**Keywords:** *emergy accounting, transformity, building construction, building maintenance, building use.*