Abstract

Nature is finite, the semi-renewable resources and the ecosystems' capacity to absorb the pollutants has made the concern for sustainability rise. Some factors that are making resources limited are population growth and increased per capita consumption. It should be noted that the impact of buildings on natural resources is significant. The construction industry is identified as the sector with human activities that most consume natural resources, in addition to using energy intensively, causing negative environmental impacts. Besides the impacts related to the consumption of matter and energy, there are those associated to the generation of solid, liquid and gaseous wastes. Thus, it is estimated that more than 50% of the solid waste generated by all human activities comes from construction, so the limitation of the sources of resources and the finite capacity of the ecosystems are the challenges to achieve an ecologically sustainable economy. However, management professionals have been struggling to integrate their operations with sustainability issues. From the context, the research problem is presented: what are the results obtained from a process of evaluation of the sustainable operations of an organization in the civil construction segment? Thus, the objective was to identify the results obtained from an evaluation process of sustainable operations of an organization in the civil construction segment. This organization is the EuroBusiness, located in Curitiba, in the State of Paraná - Brazil, the first venture in the South of Brazil to receive the LEED Platinum Seal, the highest level of certification by LEED, accounting for less than 2% of Certified ventures around the world. To reach the proposed objective, the research is considered of an applied nature, with qualitative approach and exploratory, descriptive and analytical objectives. Standardized data collection techniques involve a literature review and interviews with specialists. The results indicate that the strategy adopted by EuroBusiness involved aspects of envelopment, lighting, measurement and verification, green roofing, use and reuse of water and indoor air quality (IAQ) and contortion. In this way, it can be seen that the high technology used by the project throughout the project, reduces its operational cost and its environmental impact with the concern for saving natural resources.

Keywords: sustainable green building, domotics, sustainable product development.