



"TEN YEARS WORKING TOGETHER FOR A SUSTAINABLE FUTURE"

Environmental Sustainability of a University Institution by Calculating the Ecological Footprint

SOARES, D. F. a* , LIED, E. B. a , MAGALHÃES, A. P. b , TREVISAN, A. P. c , MOREJON, C. F. M. d , ARCEGO, C. V. d , SANTOS JUNIOR, E. L. a

- a. Universidade Tecnológica Federal do Paraná, Medianeira
- b. Universidade do Estado de Minas Gerais, João Monlevade
 - c. Universidade Estadual do Oeste do Paraná, Cascavel
 - d. Universidade Estadual do Oeste do Paraná, Toledo

*dfsoares@hotmail.com

Resumo

The methodology of Ecological Footprint (EF) is to calculate the size of bioproductive area needed to produce resources and assimilate the emissions of carbon dioxide (CO_2) produced by population. In this context, it sought to quantify the average consumption of the main resources used every day in Federal Technological University of Paraná, Campus Medianeira (UTFPR-MD) during the year 2015. The results indicate a total Ecological Footprint of 177.41 hectares, equivalent to an area about 15 times larger than the campus. It was found that the consumption of food and infrastructure and buildings, together account for 84% of CO_2 emissions and EF composition. The electricity consumption resulted in an area twice the area of the campus. While the consumption of paper, mobility and transportation, those are with less impact, less than 4% of the total. The per capita contribution of EF at campus corresponds to 0.0753 ha/person/year, this score is near to EF national score which is 0.0725 ha/person/year.

Keywords: Sustainability indicators. Universities. Envinronmental Impacts.