

Abstract

This thesis is focused on the method of Life Cycle Assessment (LCA) in Waste Management in the Czech Republic. The aim of this work is creation of landfill model and evaluate the main material, energy and elementary streams with influence on the environment. The output is an overview of each impact indicator, assessment most affected environmental categories by landfilling, and where is appropriate the optimization. The thesis consists of two parts, theoretical and experimental. The theoretical part deals generally about LCA, landfilling and municipal waste, their production and the possibilities of further handling them. In the experimental part is evaluated and compare the impact of 1 tonne landfilling waste per 1 calendar year on several Czech landfills. The next was created average landfill model and its comparison with database models.

Key words

Landfill, Life Cycle Assessment, Waste Management, Municipal solid waste