

Article

Rapid Environmental Assessment of Buildings: Linking Environmental and Cost Estimating Databases

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Abstract: Life cycle assessment (LCA) has become an important part of building design optimization. Design studios need tools that make the LCA of buildings faster and simple, and provide results that allow comparison between variants. The objective of this study was to show the possibility of LCA data integration into the existing building design tool, the DEK Building Library, which is already widely used in the Czech Republic, by connecting it to 1200 items of the largest Czech cost-estimating database, and the application of this connection into building information modeling (BIM) tools. This process also included the large-scale adaptation of 160 relevant LCA data. The main result was obtained using EnviBIM, a freely accessible BIM plugin, as well as a web interface that allows users to receive cradle-to-gate environmental impacts of DEK Building Library elements. Additionally, a semi-automated algorithms system for different groups of building materials and elements named EnviDataGenerator was developed in MS Excel, which enables the consistent linking of LCA data to the cost-estimating database items. This allows EnviBIM extensions and upgrades. The EnviBIM module was validated using case studies of three buildings modeled in ArchiCAD and REVIT. The difference in results compared to the manual calculation was 3.1% to 10.9%, which was considered a success.

Keywords: life cycle assessment; LCA; cradle-to-gate; environmental impacts of building structures; construction cost estimating; building information modeling; BIM; building design



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1. Introduction

Life cycle assessment (LCA) is the most widely used method for calculating the environmental impact of buildings [1]. Immediately after the operational stage, the production stage of a building's life cycle has the largest environmental impacts (e.g., global warming potential and primary energy consumption), hereinafter referred to as cradle-to-gate or embodied impacts [2,3]. The earlier in the project cradle-to-gate impacts are calculated, the greater the potential is to reduce them [4,5]. LCA at the design stage is time-consuming and costly because it requires a large amount of data, namely, two kinds:

- Environmental data on individual materials and components;
- Qualitative and quantitative information about the building—basically a bill of quantities.

Therefore, it is most often used after the building has been constructed and the data have been collected [6,7]. At present, stakeholders, developers, and scientists hope that LCA can be used at the earliest possible stage of building design in order to optimize it from an environmental point of view [8].

To provide a relevant LCA, the choice of the environmental data source is crucial. The data must be of sufficient quality, and the scope of the database must be large enough

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