

HOW TO ASSESS ENVIRONMENTAL PERFORMANCE OF RENOVATION USING LCA?

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Session description

The evaluation of the environmental performance of a new building is now well supported by norms and guidance documents. In France new labels and national regulations keep emerging along the years, primarily being developed for new buildings. Actually the next step is the thermal regulation planned for 2020, ie RT 2020. At the same time, new labels are developed mainly focusing on Carbon footprint and on energy consumption on the life cycle of new buildings. The French stock is about of 32 billion of buildings corresponding to about 850 billion of square meters, the majority of which corresponding to relatively old ones built in times without any compliance to thermal regulations. In Europe and also in France the target is to reduce drastically the environmental impact of the building sector. This means that the main goal of reducing the operational energy consumption of the building sector should primarily target the building renovation. Performing LCA for a building renovation is not a straightforward process and has to be investigated in its specific aspects.

The session aims (i) at contributing in the process of establishing the specific aspects of LCA process regarding a renovated building and (ii) at contributing to define a state of the arts regarding the environmental aspects of renovation. People participating in that session shall present methodologies and results obtained on renovation case studies. In France there is an experimental program that has been implemented in 2017 by the HQE association to work in this line.

Keywords

Building renovation, RSP.

Session format

Presentation from the lectern followed by moderated questions (and panel discussion).