



joint research project

“EnSLIC BUILDING”

Energy Saving through Promotion of Life Cycle Assessment in Buildings

ABSTRACT

This action seeks to achieve energy saving in the construction and operation of buildings by promoting the use of life cycle assessment techniques in design for new buildings and for refurbishment.

The project aims to draw on the existing information generated from previous research projects regarding: design for low energy consumption, integrated planning, environmental performance evaluation of buildings, design for sustainability and LCA techniques applied to buildings.

The output which will be compiled with the collaboration of key target groups, will be a set of guidelines with a methodology which clarifies different technical options available to users. This will be applied to real buildings by collaborating target groups. The results will be disseminated to a wide target group through multiple channels to highlight LCA's potential for energy saving.

Expected results

- Generate set of guidelines & methodology clarifying key aspects of the LCA, e.g., purpose, benefits, requirements, flexibility and techniques – done with collaboration of key target groups.
- Apply methodology to real building projects by collaborating target groups who have already come on board by expressing their interest. An online database with 25 case studies showing results of these will be created.
- A wider take up of LCA methods by stakeholders who require a means to optimise environmental performance of buildings in a truly sustainable way. These may be architects, engineers, local authorities, purchasing managers of large companies and materials manufacturers.
- Elaborate guidelines will guide users to the available options and tool types to maximize the potential of any design process with an interest in minimizing environmental impact, this is enabled while keeping track of the cost implications of such a goal using related tools already on the market.
- Collaborate with the regional centres of competence in the area of environmental evaluation of buildings which work in accordance with the European technical committees' vision for harmonisation in this area.

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