

Special Issue

Life Cycle Thinking for a Sustainable Built Environment

Message from the Guest Editors

Life Cycle Assessment (LCA) has been widely utilized during the last decades to investigate the influences on global greenhouse gas (GHG) emissions of various human activities and products. Alongside this, LCA-related tools, such as Life Cycle Cost (LCC) and Social Life Cycle Assessment (S-LCA), have permitted holistic analyses by also including the economic and social fields. This has highlighted the need to develop a Life Cycle Thinking framework. When it comes to the building sector, LCA has permitted a better understanding of the potential environmental impacts of construction materials and technologies, and also of systems and plants installed to guarantee adequate comfort conditions or to produce energy from renewable energy source (RES). This Special Issue aims to bring together current progress on LCA which can contribute to a better knowledge of the impact of the building sector, but also to the identification of low-carbon solutions and to enhance the robustness of the LCA methodology. Original research article and comprehensive reviews along with well-documented case studies will be considered for publication.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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