

ENVIRONMENTAL SUSTAINABILITY ASSESSMENT METHODOLOGY PROPOSAL FOR HERITAGE BUILDINGS' RESTORATION

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ABSTRACT

'Sustainable construction is seen as a way for the building industry to respond towards achieving sustainable development on the various environmental, socio-economic and cultural facets'. [1] The herein presented study sets heritage buildings and their restoration activities as a focal interest in achieving sustainability through construction sector.

Restoration projects primarily aim for the conservation of the heritage buildings and preferably for the restoration of these buildings for a specific use. Thus, the best scenario for a heritage building's participation in sustainability is its physical continuity with an actively participating role in the life of its context where it responds to all: environmental economic, social and cultural, credentials of sustainability.

As the interest of the study, the environmental sustainability of heritage buildings can be achieved through continuity of the building with its apparent heritage values and alteration of its life time performance. Accordingly, the assessment of the environmental sustainability of heritage buildings shall base on understanding how and with what environmental impacts the laterally mentioned criteria are achieved.

It is the aim of this paper to present a specifically developed methodology to assess the environmental sustainability performance of heritage buildings' restoration projects in correlation with other assets of sustainability.

Methodology is set as a structure that classifies, integrates and quantifies different groups of numeric and written information to assess the environmental sustainability of heritage buildings', specific to, adaptive reuse projects. It is developed as a comprehensive scheme that utilizes LCA as a backbone for delivering environmental sustainability performance values.

REFERENCES

[1] "Agenda 21 on Sustainable Construction"(1999), CIB Report Publication No. 237.