

Protect our Environment through Developing Architectural Design towards Sustainability by Applying its Principles into Design Tools

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Abstract

Sustainability is based on protecting green fields and creating sustainable sites. Furthermore, increase the efficiency of water and energy consumption besides using local materials, and implement recycling programs. Projects that achieved high rates using sustainable rating system are environmentally friendly. The research objective is to stimulate all architects to protect the planet through applying sustainability criteria. The methodology focused on applying the sustainability principles into design tools. The outcome is focused on extracting sustainability database from existing rating systems and proofs that computer programs as design tools can review architectural design input data against saved database. (C) 2012 The Authors. Published by Elsevier Ltd.

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