

In order to achieve low-energy and low-carbon buildings in Sri Lanka, several strategies were identified; suitable construction practices and building designs to reduce quantities of mass materials, use of alternative materials with low energy and carbon intensities, material recycling and reuse, use of clean and renewable energy for production ...

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In Sri Lanka, buildings make up more than 70.9% of contracts and consume a significant amount of raw materials, and office buildings use 33% of the raw materials. Therefore, this research aimed to assess the embodied carbon (EC) of green office buildings and to provide potential measures to reduce the EC of buildings in Sri Lanka.

Building professionals involved in material selection for construction projects have a vital role to play in this regard. This paper aimed to explore the extent to which building professionals in Sri Lanka considered EC as a material selection criterion. A questionnaire survey was conducted among a sample of building professionals

in Sri Lanka.

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The Inventory of Carbon and Energy (ICE) is the database for embodied energy and carbon of building materials, applied in the study, due to the lack of applicable carbon emission data and coefficients for the Sri Lankan context.

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