## Book Chapter

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## Abstract

The building and construction industry has become the focus of environmental impact reduction in the aftermath of the global resolution to reduce its adverse effect and make the built environment more sustainable. This chapter examines the place of materials in sustainable building construction generally and from the perspective of life cycle assessment and reduction of environmental impact. Hence, specific approaches to sustainable construction from the perspective of materials such as improved material production processes, recycling, materials substitution, innovative construction methods, deconstruction, use of innovative materials, and use of eco-friendly materials are explained from the life cycle impact perspective. The implications of the approaches for improved uptake of sustainable construction practices are also examined with particular reference to the role of policy framework and legislation.