

Sustainability in University buildings in the Kingdom of Saudi Arabia

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Abstract : The Ministry of Higher Education is currently developing and executing a large number of university buildings and campuses all around Saudi Arabia annually due to the increased number of students. This is carried out through high international standards. Energy and environmental issues have been given a lot of consideration so the operation will be economical, environmentally and socially efficient enough. This paper will shed light on the application of building sustainability standards on buildings and university campuses during the design and construction stage. University campuses and buildings are currently under major construction development. In this research, data for green building standards were collected and a building sustainability methodology was appointed for applying sustainable standards, recommend to all is inserted imparting a guidelines standards for university buildings. Architecture design and construction imparting were assisted by environmental criteria. This paper highly recommends applying an environmental and sustainable building measurement tool in Saudi Arabia. Special attention should be paid to university building and similar project organizers due to the high energy demand in such project organizers. Moreover, a national environmental programme should be created to set the related standards to the local architecture to be applied to measuring green building and sustainable architecture design in Saudi Arabia.

Keywords : sustainable universities, university buildings, sustainability in Saudi Arabia, green buildings, sustainable building

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