

BEDaC RG

Built Environment Design and Construction Research Group

Research Statement

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Rapid development in the recent decade as urban population grows demands expansion of infrastructure and constructions globally. These has caused a wide range of environmental problems due to the excessive consumption of resources and materials that results into an irreversible pollutions to the environment. Thus, it is crucial to conduct a number of related researches on green building and infrastructure design with focus on sustainability to minimise the environmental impacts. This study will include the understanding of related issues from the design through the project construction stage to occupancy. While It is important to have a robust sustainable assessment from the design early stages and choose the best environment friendly materials available during construction, it is also crucial to have assessment strategy during occupancy. This research group aims to examine the limitations of current design practice and apply the most convenient method to obtain the peak sustainable projects.

Keyword: Building and infrastructure design, Construction, Sustainable assessment, Materials, Environmental impacts.

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