COOL BUILDING ENVELOPE:
AN URBAN HEAT ISLAND MITIGATION STRATEGY

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ABSTRACT

Protecting the environment and the urban climate seems never considered as a basis for building envelope design decisions. Instead of designing the envelope for architectural purposes only, the envelope design should be restricted to protect the urban climate as well as the indoor climate.

This study promotes an introduction of Cool Building Envelope, a step towards instituting an Urban Heat Island (UHI) mitigation scale. This is important not only to achieve UHI mitigation but also to maintain an energy balance within the building.