



An Analysis of the Development of Architecture in a Dry, Hot Climate Using Building Circularity as a Metric of Sustainability

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Introduction

The evolution of architecture in a dry, hot climate has been a complex process, shaped by a variety of factors including climate, culture, and technology. In recent years, the focus has shifted towards sustainability, with building circularity emerging as a key metric. This paper explores the development of architecture in a dry, hot climate, using building circularity as a metric of sustainability. The findings show that the evolution of architecture reduced energy usage by 78% when compared to the resulting rise in environmental consequences like Global Warming Potential (GWP) have been quantified (LCA). The environmental impact of new materials has been shown to be five times greater than that of old ones due to the
