

## Enhancing Sustainability of Residential Buildings: A Case Study of Al-Malaz District, Riyadh, Saudi Arabia

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**Abstract :** This research paper investigates how planning, urban design, and architectural decisions affect the long-term environmental sustainability of residential buildings. The study, which focuses on the Al-Malaz District in Riyadh, Saudi Arabia, looks into how strategic planning, innovative urban design, and sustainable architectural practices might help mitigate environmental concerns and promote sustainable development in rapidly growing cities. This study attempts to shed light on the interplay of urban planning, design, and architecture in constructing sustainable residential environments by conducting a thorough examination of case studies and empirical data.

**Keywords :** urban planning, sustainable architecture, urban environmental challenge, residential buildings, villa house type

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