African Water Resources Management
(Environmental/Earth Science)

Water Recycling Technologies in Cairo Hotels: Resource Conservation and Cost Reduction Strategies

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Abstract

Cairo's hospitality sector, particularly hotels, faces significant water scarcity due to limited freshwater resources and high operational costs. A survey methodology was employed, collecting data from a sample of Cairo hotels regarding their water management practices and technological implementations. The findings revealed that 70% of surveyed hotels have incorporated at least one form of water recycling technology, with greywater reuse systems being the most prevalent (45%). Water recycling technologies in Cairo hotels are effective in conserving resources and reducing operational costs, though there is room for improvement and wider adoption. Encourage further research into cost-effective scaling of water recycling projects and promote policy incentives to accelerate their implementation.

Keywords: *Cairo, Egypt, Hospitality, Sustainability, Recycling, Resource Management, Water Economics, Green Building Standards*

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