

# A Study on the Impact of Recycling on Preserving the Environment in Oman

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## Abstract

Recycling plays a pivotal role in environmental conservation by mitigating waste generation and resource depletion. However, the Sultanate of Oman faces challenges regarding its recycling practices amidst increasing population and material consumption. This study aims to explore the impact of recycling on preserving Oman's environment, focusing on pollution avoidance, resource conservation, waste minimization, and raising awareness among Oman's populace about the environmental implications of recycling. A comprehensive literature review reveals the significance of effective recycling programs in addressing environmental concerns and provides a foundation for the study. The research hypothesis, focusing on the alternative, asserts a significant positive impact of recycling on the environment and proposes a positive correlation between recycling and environmental preservation. Objectives include assessing how recycling operations in Oman affect the environment, with particular attention to pollution avoidance, resource conservation, and waste minimization, investigating the different kinds of recycling materials and techniques used in Oman, classifying, and evaluating their suitability for the region, and clarifying the various advantages of recycling, including environmental and economic benefits. Methodologically, a survey employing random sampling will be conducted, followed by data analysis using linear regression and statistical measures such as mean, median, mode, standard deviation, and correlations. Findings aim to inform policymakers, enhance public awareness, and contribute to Oman's sustainable development goals. Additionally, the study highlights the benefits to Oman, including environmental preservation, sustainable development, public education, and awareness, and enhanced international recognition for its dedication to environmental sustainability.

## Keywords:

environmental, practices, impact, programs.