



Environmental Remediation Strategies for Industrial Pollution Control in Zambia

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Abstract

Industrial pollution in Zambia is a significant environmental challenge affecting both human health and ecosystem services. A mixed-methods approach was employed, combining quantitative analysis of existing data from government sources with qualitative interviews to understand stakeholder perspectives and potential barriers to implementation. Analysis revealed that the adoption rate of green technology in industrial processes is currently low, with only 30% of industries implementing pollution control measures. Interviews highlighted challenges such as high initial costs and lack of technical expertise. Current strategies need improvement to increase compliance rates among industrial sectors. Implementing a phased approach with subsidies for green technology adoption and enhancing training programmes for industrial workers will facilitate more widespread pollution control. The maintenance outcome was modelled as $Y = \beta_0 + \beta_1 X + u_i + \text{varepsilon}$, with robustness checked using heteroskedasticity-consistent errors.

Keywords: *Zambian, Geographic Information Systems, Sustainable Development Goals, Cleaner Production, Environmental Impact Assessment, Green Chemistry, Urban Planning*

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