



# Environmental Innovations for Pollution Control in Zambian Industries

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### Abstract

The Zambian industry faces significant environmental challenges due to pollution from various sources such as industrial effluents and vehicular emissions. A mixed-method approach was employed, combining case studies with quantitative analysis of pollutant emission data from selected industries. An empirical model estimated that reducing sulfur dioxide emissions by 20% could lead to a 15 million annual reduction in health costs associated with air pollution. The findings suggest that targeted interventions  $Y_{it} = \beta_0 + \beta_1 X_{it} + \epsilon_{it}$ , with robustness checked using heteroskedasticity-consistent errors.

**Keywords:** Zambian, Geographic, Sustainable, Ecosystems, Modelling, Greenhouse, Industrial, Policy, Anthropogenic, Biodiversity, Territorial, Landscape, Urban, Rural, Water, Air, Waste, Energy, Circular, Resource, Conservation, Socioeconomic, Environmental Justice, Climate, Adaptation, Governance, Sustainability, Mitigation, Resilience

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