



Sources, Impacts, and Control of Air Pollution in Urban Lagos, Nigeria 2002

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Abstract

Urban air pollution in Lagos is a significant environmental issue affecting public health and urban development. A combination of field monitoring data and expert interviews were used to assess the extent and types of pollutants, their impacts on human health, and potential control strategies. The study identified automobile emissions as a primary source contributing up to 50% to ambient air pollution levels in Lagos. The impact assessment revealed that exposure to these pollutants was associated with increased respiratory problems among residents (94% prevalence). Despite the challenges, the implementation of emission reduction policies and public awareness campaigns showed promising results in mitigating the adverse health effects. Further research is needed to explore long-term control measures while considering socio-economic factors. Public engagement should be intensified through education programmes and community involvement initiatives. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African urbanism, atmospheric chemistry, air quality management, environmental epidemiology, industrial emissions, nitrogen oxides, particulate matter*

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