

AN EMPIRICAL RELATIONSHIP BETWEEN CARBON DIOXIDE EMISSIONS, HUMAN HEALTH AND ECONOMIC GROWTH NIGERIA

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Abstract

The paper examined empirical relationship between carbon dioxide (CO₂) emission, human health and economic growth in Nigeria. It employs the use of annual time series data sourced from Central Bank of Nigeria (CBN) and world bank from 1981-2016. Carbon dioxide (CO₂) emission is used as independent variable while Human Health (proxy to Life Expectancy) and Economic Growth (proxy to Gross Domestic Product) are used as dependent variables. This paper employs Autoregressive Distributed Lag (ADRL) bound testing approach. The results of co-integration indicate that, there is a long run relationship between carbon dioxide (CO₂) emission and human health in Nigeria. Thus, there is no short run relationship between carbon dioxide (CO₂) emissions, and human health in Nigeria. The empirical result further indicates that, carbon dioxide (CO₂) emissions have both short run and long run negative relationship economic growth in Nigeria. Therefore, based on the empirical result the paper recommends that government must take a step to change the current energy use patterns away from fossil fuels and an alternative energy sources like wave energy from the sea and solar should be explored to the fullest among others.

Keywords: Carbon Dioxide (CO₂) Emission, Human Health and Economic Growth