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Fossil-Fuel Disruptions and Low Carbon Transition: Legal Responses to Energy Security and Sustainability in Nigeria's Power Sector

## FOSSIL-FUEL DISRUPTIONS AND LOW CARBON TRANSITION: LEGAL RESPONSES TO ENERGY SECURITY AND SUSTAINABILITY IN NIGERIA'S POWER SECTOR

Olusola Joshua Olujobi, Afe Babalola University Elizabeta Smaranda Olarinde, Afe Babalola University Ebenezer Tunde Yebisi, Afe Babalola University Uchechukwu Emena Okorie, Covenant University

## ABSTRACT

Energy is significant in any country; paucity of access to a constant energy supply for poverty and the decline in economic growth. Nigeria is endowed with copious low-carbon en resources for sustainable development. However, it fails to optimize these resources. The s examines the potential of low-carbon energy that could be utilized for a constant energy sup The study utilizes empirical, doctrinal legal research approaches with primary and secon sources of laws such as textbooks, and peer-reviewed journals. Comparative legal analyse low-carbon energy in China, Spain, Germany and Nigeria were done to gain valuable inst into the stable electricity supply. Theories and empirical procedures were used in the estimate of carbon emission with the instrumentality of the auto-regressive distributed lag model. results of the short-run and long-run model estimates revealed a positive contributio electricity consumed to significant variations in CO2 emission. Variations in hydroele power sources accounted for a significant decline in carbon emissions. The error correct model provided evidence of a significant high mechanism for systemic convergence in presence of exogenous shocks. The article designs a hybrid model for adopting low-ca energy, and advocates reform of energy laws to mitigate environmental impact and sustainability.

Keywords: Fossil-Fuel, Low Carbon Transition, Legal Response, Sustainability, Nigeria.

## INTRODUCTION

Over the years, adequate and reliable energy supply in Nigeria has been the subject intensive concern, as the world's glamour for low carbon energy sources is a veritable instruction attaining sustainable energy development in any nation. Fossil fuel has had an enorminfluence on the growth of Nigeria's economy as the country majorly on oil export reverthereby being vulnerable to the changing in global oil prices. However, it is worth of note this industry is going to subsist in the period of global climate neutrality and national net zero decarbonisation policies. The colossus role of fossil fuels in Nigeria's energy mix has occasion

an unusual increase in carbon dioxide releases into the atmosphere, dangerous heat compare other advanced countries. The revenues from fossil fuel export are about 86% of the cour Short-term subscription options include 24 hours, 48 hours, or 1 week to HeinOnline.

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