

Role of Energy Accessibility in Human development: Evidence from Empirical Analysis of Pakistan

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Abstract

Energy is essential to human advancement since it boosts social growth and production. Numerous studies have demonstrated a long-term correlation concerning energy use and economic expansion, which is frequently gauged by financial metrics. Building on this framework, the present study applied the ARDL approach to explore the long term association between energy accessibility and human progress in Pakistan from 1998 to 2020. The results show that increased admittance to electricity has a long term positive impression on the Human Development Index. Likewise, increased use of clean fuels improves household health and living standard, which have a favorable impact on HDI. Additionally, trade openness, employment and foreign direct investment (FDI) all take positive effects on human development. Based on the results, the study suggests that increasing access to dependable power and encouraging the use of clean energy sources be given top priority by policymakers as crucial tactics for enhancing human welfare and attaining sustainable development in Pakistan.

Keywords: Human Development Index (HDI), Foreign Direct Investment (FDI), Energy use, clean fuel, Human welfare

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