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CO2 emissions, energy consumption ...The study aimed at investigating the relationship between energy consumption at aggregate and disaggregate levels i.e., oil, coal, gas and electricity in different sectors (commercial, agriculture, industry, power and transport) of the economy with the economic growth in Pakistan. But the finding that energy consumption causes economic growth does not necessarily mean that energy conservation will harm economic growth if energy-efficient production technologies are used. In fact, a reduction in energy consumption due to improvements in energy efficiency may raise productivity, which in turn may stimulate economic growth.

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### **The Energy Consumption Economic Growth Link - Newcastle ...**

The link among energy consumption, emissions and economic growth has received considerable attention over the years by both policy makers and researchers, as the achievement of sustainable economic growth has gradually become a major global concern.

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### *Energy and Economic Growth*

The bidirectional relationship between GDP and energy consumption provides support for the feedback hypothesis, suggesting complementarity among economic growth and energy consumption (Apergis and Payne, 2010).

Furthermore, a bidirectional causality linkage which has been found between energy consumption and environmental quality indicators, indicates the presence of a reciprocal commitment between energy demand and environmental quality.

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