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The linkages among energy consumption, economic growth, relative price, foreign direct investment, and financial development in Malaysia

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causes FD. Policymakers should implement a dual strategy that, on one hand, increases investment in energy infrastructure to ensure that the supply of energy is sufficient for the financial sector and economic development, while, on the other, encourages R&D in green technology such as exercising proper soil conservation techniques and sustainable farming practices in order to reduce the consumption of fossil fuels. By doing so, environmental problems such as carbon dioxide emissions can be minimised without affecting economic growth and financial sector development in Malaysia.

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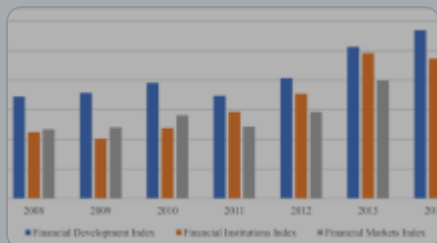
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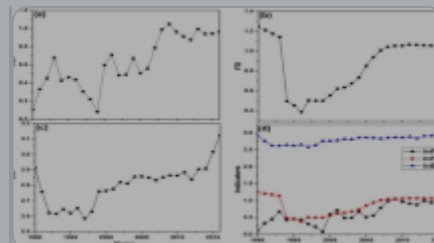
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Chandran V.G.R., Sharma S., Madhavan K.: Electricity consumption-growth nexus: the case of Malaysia. Energy Policy **38**, 606–612 (2010)

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Stock J.H., Watson M.W.: Forecasting using principal components from a large number of predictors. *J. Am. Stat. Assoc.* **97**, 1167–1179 (2002a)

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