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Volume 78, 1 October 2017, Pages 640–647

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Rahman, M.S.<sup>a</sup> (<https://www.scopus.com/authid/detail.uri?authorId=55859480300&eid=2-s2.0-85019012372>)

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Noman, A.H.M.<sup>b</sup> (<https://www.scopus.com/authid/detail.uri?authorId=56719380900&eid=2-s2.0-85019012372>),

Shahari, F.<sup>c</sup> (<https://www.scopus.com/authid/detail.uri?authorId=56646507500&eid=2-s2.0-85019012372>) 

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## Abstract

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This study aims to investigate long-run relationship between economic growth and disaggregated energy consumption in Malaysia. Toda-Yamamoto (T-Y), the modified Granger causality test, along with annual disaggregated energy and real GDP growth data from 1971 to 2014 was used in the investigation process. This paper presents several outcomes; firstly, this paper argues that the Malaysian economy is energy dependent and sensitive to energy supply shocks. Secondly, the usage of energy inputs in Malaysian economy is found to be consumed inefficiently meaning that usage of higher energy resources does not contribute the economic growth significantly, rather causes environmental pollution badly. Thirdly, the finding indicates that economic growth and environmental pollution through spreading carbon emissions are responsive to each other. In this circumstance, the Malaysian economy has to find a way to consume the energy inputs efficiently so that economic growth is improved, while negative externality in the environment is reduced. Therefore, the study presents significant policy implications in order to improve the energy efficiency and reduce environmental pollution. © 2017 Elsevier Ltd

### Author keywords

Disaggregate energy consumption   Environment pollution   GDP growth   Granger causality   Malaysia

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