
Muhammad Shahbaz, Thi Hong Van Hoang, Mantu Kumar Mahalik, David Roubaud

PII: S0140-9883(17)30033-6
DOI: doi:10.1016/j.eneco.2017.01.023
Reference: ENEECO 3554

To appear in: Energy Economics

Received date: 9 May 2016
Revised date: 2 November 2016
Accepted date: 30 January 2017

Please cite this article as: Shahbaz, Muhammad, Van Hoang, Thi Hong, Mahalik, Mantu Kumar, Roubaud, David, Energy Consumption, Financial Development and Economic Growth in India: New Evidence from a Nonlinear and Asymmetric Analysis, Energy Economics (2017), doi 10.1016/j.eneco.2017.01.023

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Muhammad Shahbaz a,b, Thi Hong Van Hoang a, Mantu Kumar Mahalik c, David Roubaud a

a Montpellier Business School and Montpellier Research in Management, France
b COMSATS Institute of Information Technology, Pakistan
c Department of Humanities and Social Sciences, National Institute of Technology (NIT), Rourkela-769008 Sundargarh, Odisha, India

Abstract

This paper investigates the asymmetric relationship between energy consumption and economic growth by incorporating financial development, capital and labour into a production function covering the Indian economy from 1960Q1–2015Q4. The nonlinear autoregressive distributed lag bounds testing approach is applied to examine the asymmetric cointegration between the variables. An asymmetric causality test is also employed to examine the causal association between the considered variables. The results indicate cointegration between the variables in the presence of asymmetries. The asymmetric causality results show that only negative shocks to energy consumption have impacts on economic growth. In the same vein, only negative shocks to financial development have impacts on economic growth. By contrast, symmetrically, capital formation causes economic growth. Finally, over the study period, a neutral effect exists between the labour force and economic growth in India. The implications of these results for growth policies in India are also discussed.

Keywords: Financial Development, Energy, Growth, India, Asymmetries

JEL classification: O13

Acknowledgements: We would like to thank the Editor, Professor Richard Tol (University of Sussex, Brighton, UK), as well as the three anonymous reviewers, for their valuable comments and suggestions that helped us improve our paper significantly. We also thank the participants at the 7th International Research Meeting in Business and Management (IPAG, Nice, France, 11–12 July 2016) and at the 1st Asia-Pacific Infiniti Conference on International Finance (University of Economics, Ho Chi Minh City, Vietnam, 7-8 December 2016). We are grateful to Jawad Kazmi for his technical assistance. The authors’ are responsible for any remaining errors or shortcomings.

Email addresses: M. Shahbaz (shahbazmohd@live.com), T.H.V. Hoang (thv.hoang@montpellier-bs.com), M.K. Mahalik (mantu65@gmail.com), D. Roubaud (d.roubaud@montpellier-bs.com)
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