An Investigation into the Crude Oil Price Pass-Through to the Macroeconomic Activities of Malaysia  

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Abstract

This study examines the pass-through of crude oil prices (CP) into economic activities of Malaysia including industrial production index (IP), consumer price index (CPI), real effective exchange rate (REER), interest rate (IR) and stock price index (SPI) within the framework of hidden cointegration technique over the quarterly data ranging from 1987 to 2013. The estimated results suggest that positive and negative changes of IP, CPI, REER, IR and SPI do not maintain a long-run association with positive as well as negative changes of real CP. Although the negative changes in CPI, negative changes in IP and negative changes in REER are found to be cointegrated with the positive changes of CP the estimated signs of the error correcting terms do not provide enough evidence to support this provision. © 2015 The Authors. Published by Elsevier Ltd.

Author keywords

- crude oil price
- economic activities
- hidden cointegration
- Malaysia

Indexed keywords

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References (57)

1. Pindyck, R.S.
The dynamics of commodity spot and futures markets: A primer

2. Blein, R., Longo, R.
Food price volatility—how to help smallholder farmers manage risk and uncertainty

3. Hamilton, J.D.
Oil and the macroeconomy since world war II
www.journals.uchicago.edu/JPE/home.html

4. Hamilton, J.D.
This is what happened to the oil price - Macroeconomy relationship
doi: 10.1016/S0304-3932(96)01282-2

5. Hamilton, J.D.
What is an oil shock?
doi: 10.1016/S0304-4076(02)00207-5

6. Paul, S., Bhattacharya, R.N.
Causality between energy consumption and economic growth in India: A note on conflicting results

7. Sims, C.A.
Macroeconomics and reality

8. Mork, K.A.
Oil and macroeconomy when prices go up and down: An extension of Hamilton's results
<table>
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<tr>
<th>Page</th>
<th>Reference</th>
<th>Title</th>
<th>Year</th>
<th>Journal</th>
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<th>Pages</th>
<th>Cited</th>
<th>DOI</th>
<th>View Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Gisser, M., Goodwin, H.T.</td>
<td>Crude oil and macroeconomy: Tests for some popular notions</td>
<td>1986</td>
<td>Credit and Banking</td>
<td>18</td>
<td></td>
<td>pp. 95-103</td>
<td>194</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Bjørnland, H.C.</td>
<td>Oil price shocks and stock market booms in an oil exporting country</td>
<td>2009</td>
<td>Scottish Journal of Political Economy</td>
<td>56</td>
<td>2</td>
<td></td>
<td>44</td>
<td>10.1111/j.1467-9485.2009.00482.x</td>
<td>View at Publisher</td>
</tr>
<tr>
<td>12</td>
<td>Cunado, J., Pérez de Gracia, F.</td>
<td>Do oil price shocks matter? Evidence for some European countries</td>
<td>2003</td>
<td>Energy Economics</td>
<td>25</td>
<td>2</td>
<td></td>
<td>133</td>
<td>10.1016/S0140-9883(02)00099-3</td>
<td>View at Publisher</td>
</tr>
<tr>
<td>13</td>
<td>Rotemberg, J.J., Woodford, M.</td>
<td>Imperfect competition and the effects of energy price increases on economic activity</td>
<td>1996</td>
<td>Credit and Banking</td>
<td>1</td>
<td></td>
<td>pp. 549-577</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Finn, M.G.</td>
<td>Perfect competition and the effects of energy price increases on economic activity</td>
<td>2000</td>
<td>Journal of Money, Credit and Banking</td>
<td>32</td>
<td>3</td>
<td></td>
<td>104</td>
<td>10.2307/2601172</td>
<td>View at Publisher</td>
</tr>
<tr>
<td>15</td>
<td>Keane, M.P., Prasad, E.S.</td>
<td>The employment and wage effects of oil price changes: A sectoral analysis</td>
<td>1996</td>
<td>Review of Economics and Statistics</td>
<td>78</td>
<td>3</td>
<td></td>
<td>63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Davis, S.J., Haltiwanger, J.</td>
<td>Sectoral job creation and destruction responses to oil price changes</td>
<td>2001</td>
<td>Journal of Monetary Economics</td>
<td>48</td>
<td>3</td>
<td></td>
<td>200</td>
<td>10.1016/S0304-3932(01)00086-1</td>
<td>View at Publisher</td>
</tr>
</tbody>
</table>
18. Lee, K., Ni, S.
On the dynamic effects of oil price shocks: A study using industry level data
doi: 10.1016/S0304-3932(02)00114-9

19. Lippi, F., Nobili, A.
Oil and the macroeconomy: A quantitative structural analysis

20. Francesco, G.
The economic effects of oil price shocks on the UK manufacturing and services sector
*MPRA 2009*; paper No. 16171

21. Burbidge, J., Harrison, A.
Testing for the effects of oil-price rises using vector autoregressions.

22. Blanchard, O.J., Gali, J.
Department of Economics and Business, Universitat Pompeu Fabra, Economics Working Papers

23. Raymond, J.E., Rich, R.W.

24. Bohi, D.R.
On the macroeconomic effects of energy price shocks
doi: 10.1016/0165-0572(91)90012-R

25. Lescaroux, F., Mignon, V.
Measuring the effects of oil prices on China's economy: A factor-augmented vector autoregressive approach
doi: 10.1111/j.1468-0106.2009.00457.x

Oil price shocks and their short- and long-term effects on the Chinese economy
doi: 10.1016/j.eneco.2010.01.002

View at Publisher
27. Zhang, Q., Reed, M.
Examing the impact of the world crude oil prices on China's Agricultural commodity prices: The case of corn, soybean and pork
Dallas, TX, February 2-5, 2008

28. Cologni, A., Manera, M.
The asymmetric effects of oil shocks on output growth: A Markov-Switching analysis for the G-7 countries
doi: 10.1016/j.econmod.2008.05.006

The asymmetry of the impact of oil price shocks on economic activities: An application of the multivariate threshold model
doi: 10.1016/j.eneco.2005.03.001

30. Akram, Q.F.
Oil Prices and exchange Rates: Norwegian evidence

Oil prices and the rise and fall of the US real exchange rate

32. Lizardo, R.A., Mollick, A.V.
Oil price fluctuations and U.S. dollar exchange rates
doi: 10.1016/j.eneco.2009.10.005

33. Benassy-Quere, A., Mignon, V., Penot, A.
China and the relationship between the oil price and the dollar
(2005) *CEPII Research Center, Working Papers*

34. Cooper, R.L.
Changes in exchange rates and oil prices for Saudi Arabia and other OPEC member countries

Exchange rates and World oil prices
36 Yousefi, A., Wirjanto, T.S.
The empirical role of the exchange rate on the crude-oil price formation
doi: 10.1016/j.eneco.2004.06.001
View at Publisher

37 Zhang, Y.-J., Fan, Y., Tsai, H.-T., Wei, Y.-M.
Spillover effect of US dollar exchange rate on oil prices
View at Publisher

38 Aleisa, E.A., Diboğlu, S.
Sources of real exchange rate movements in Saudi Arabia
View at Publisher

39 Breitenfeller, A., Cuaresma, J.C.
Crude Oil Prices and USD/EUR Exchange Rate. Monetary Policy and the Economy Q4/08

40 Jones, C.M., Kaul, G.
Oil and the stock markets
View at Publisher

41 Papapetrou, E.
Oil price shocks, stock market, economic activity and employment in Greece
doi: 10.1016/S0140-9883(01)00078-0
View at Publisher

42 Sadorsky, P.
Oil price shocks and stock market activity
doi: 10.1016/S0140-9883(99)00020-1
View at Publisher

43 Sadorsky, P.
The macroeconomic determinants of technology stock price volatility
doi: 10.1016/S1058-3300(02)00071-X
View at Publisher
44 Basher, S.A., Sadorsky, P.
Oil price risk and emerging stock markets
View at Publisher

45 Park, J., Ratti, R.A.
Oil price shocks and stock markets in the U.S. and 13 European countries
View at Publisher

46 Chen, N.-F., Roll, R., Ross, S.A., Lo, A.W.
Economic forces and the stock market

47 Huang, R.D., Masulis, R.W., Stoll, H.R.
Energy shocks and financial markets
View at Publisher

48 Cong, R.-G., Wei, Y.-M., Jiao, J.-L., Fan, Y.
Relationships between oil price shocks and stock market: An empirical analysis from China
View at Publisher

49 Apergis, N., Miller, S.M.
Do structural oil shocks affect stock prices

50 Hooker, M.A.
What happened to the oil price - Macroeconomy relationship?
View at Publisher

51 Segal, P.
Why do oil price shocks no longer shock?

52 Bekhet, H.A., Yusop, N.Y.M.
Assessing the Relationship between Oil Prices, Energy Consumption and Macroeconomic Performance in Malaysia: Co-integration and Vector Error Correction Model (VECM) Approach
Yusoff, N.Y.B.M., Latif, N.W.B.A.
Measuring the Effects of World Oil Price Change on Economic Growth and Energy Demand in Malaysia: An ARDL Bound Testing Approach

Liu, M.-H., Margaritis, D., Tourani-Rad, A.
Is there an asymmetry in the response of diesel and petrol prices to crude oil price changes? Evidence from New Zealand
View at Publisher

Engle, R.F., Granger, C.W.J., Engle, R.F., Granger, C.W.J.
Cointegration and Error Correction: Representation, Estimation, and Testing
Oxford, pp. 81-111. Cited 18 times.
New York; Toronto and Melbourne: Oxford University Press

Granger, C.W., Yoon, G.
Hidden cointegration

Honarvar, A.
Asymmetry in retail gasoline and crude oil price movements in the United States: An application of hidden cointegration technique
doi: 10.1016/j.eneco.2009.01.010
View at Publisher

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