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International Journal of Economics and Business Research
Volume 16, Issue 3, 2018, Pages 355-366

Technical efficiencies of Indonesian regional and non-regional banks pre- and post-financial crisis (Article)

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Abstract

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This research investigates technical efficiencies of Indonesian banks operating regionally and nationally pre- and post-financial crisis in 2008. The data envelopment analysis (DEA) with bootstrapping approach is applied to estimate the technical efficiency. This study uses 119 banks listed in the Indonesian Central Bank of Indonesia and Financial Service Authority (OJK) with period from 2005 to 2014. Following the role of the banks, the technical efficiency is estimated using an intermediation approach. The results show that the banks are technically inefficient, on average. Overall, the average technical efficiency of the regional banks is lower than the non-regional banks. Also, there are significant differences of the technical efficiencies of the regional, non-regional and all banks between pre and post-financial crisis. Further, the differences of the technical efficiencies between regional and non-regional banks are significant only in all periods and post-financial crisis. In addition, the regional banks operating in the Java islands have higher average technical efficiency compared to the regional banks operating outside the Java island, although the difference is only significant in the period before the financial crisis. Copyright © 2018 Inderscience Enterprises Ltd.

Author keywords

[Bootstrapping approach](#)
[Non-regional banks](#)
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[Technical efficiency](#)

ISSN: 17569850
Source Type: Journal
Original language: English

DOI: 10.1504/IJEBR.2018.094391
Document Type: Article
Publisher: Inderscience Publishers

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International Journal of Economics and Business Research

Country	Switzerland - III SIR Ranking of Switzerland
Subject Area and Category	Business, Management and Accounting Business, Management and Accounting (miscellaneous) Economics, Econometrics and Finance Economics, Econometrics and Finance (miscellaneous)
Publisher	Inderscience Publishers
Publication type	Journals
ISSN	17569850, 17569869
Coverage	2015-ongoing

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Technical efficiencies of Indonesian regional and non-regional banks pre- and post-financial crisis

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Abstract: This research investigates technical efficiencies of Indonesian banks operating regionally and nationally pre- and post-financial crisis in 2008. The data envelopment analysis (DEA) with bootstrapping approach is applied to estimate the technical efficiency. This study uses 119 banks listed in the Indonesian Central Bank of Indonesia and Financial Service Authority (OJK) with period from 2005 to 2014. Following the role of the banks, the technical efficiency is estimated using an intermediation approach. The results show that the banks are technically inefficient, on average. Overall, the average technical efficiency of the regional banks is lower than the non-regional banks. Also, there are significant differences of the technical efficiencies of the regional, non-regional and all banks between pre and post-financial crisis. Further, the differences of the technical efficiencies between regional and non-regional banks are significant only in all periods and post-financial crisis. In addition, the regional banks operating in the Java islands have higher average technical efficiency compared to the regional banks operating outside the Java island, although the difference is only significant in the period before the financial crisis.

Keywords: technical efficiency; bootstrapping approach; regional banks; non-regional banks; pre- and post-financial crisis.

Reference to this paper should be made as follows: Effendi, N., Setiawan, M. and Indrastuti, R. (2018) 'Technical efficiencies of Indonesian regional and non-regional banks pre- and post-financial crisis', *Int. J. Economics and Business Research*, Vol. 16, No. 3, pp.355–366.

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