THE EFFECTS OF ENVIRONMENTAL, SOCIAL AND GOVERNANCE ON THE CORPORATE PERFORMANCE OF MALAYSIAN GOVERNMENT-LINKED COMPANIES

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ABSTRACT

This study examines the impacts of ESG on the corporate performance government-linked companies (GLCs) in Malaysia. For the period 2006-2012, ESG disclosure data were extracted from the Sustainalytics ESG performance reports, while financial data were obtained from the Bloomberg database. Data development analysis (DEA) was used to estimate efficiency in the first stage; a regression analysis was performed to test the relationship between ESG and efficiency in the second stage. The empirical results of this study show that GLCs focused more on governance disclosures, followed by social and environmental aspects. Moreover, governance will improve firm efficiency, but social and environmental factors have no similar effect. In conclusion, this study provides insight on the limited literature on ESG and informs the relevant stakeholders on the important ESG components for financial and investment decisions.

Keywords: Environmental, Social and Governance (ESG), firm efficiency, data envelopment analysis, government-linked companies

INTRODUCTION

Environmental, Social and Governance (ESG) information is getting gradually more included into corporate communication (Arvidsson, 2010; Ihlen, 2008). ESG can also be known as ‘extra-financial’ information that help investors make investment decisions by better assessments of risks and opportunities (Bassen & Kovacs, 2008). Prior studies (for example, Bachoo, Tan, & Wilson, 2013; Bebchuk, Cohen, & Wang, 2013; Clark, Feiner, & Viehs, 2015; Servaes & Tamayo, 2013; Wang, Lu, Kweh, & Lai, 2014) have extensively examined the effects of ESG on corporate performance; however, the results have been mixed and thus inconclusive.

The open debate could be due to the inconclusive findings and weaknesses in the measure of firm performance. To elaborate, single-dimensional measures of corporate performance used in the prior studies include return on assets (ROA) that are subject to interpretation and thus may not be sufficient for performance measurement (Feroz, Kim, & Raab, 2003). It is important to note that if a company has good sustainability management, its operating costs would be low and ultimately its efficiency will also improve in the long term (Bachoo et al., 2013).
Consistent with the government’s aspiration in the Economic Transformation Programme (ETP) to achieve its developed status, this study considers a contemporary measure of financial performance which is multidimensional. In contrast to single-dimensional measures of corporate performance, data envelopment analysis (DEA), a mathematical-programming method that incorporates multiple variables (Cooper, Seiford, & Tone, 2006), provides a comprehensive performance measure. Various attributes can be evaluated simultaneously to calculate an efficiency score for a decision-making unit (DMU). In other words, a holistic performance evaluation that provides aggregated activities information can be done via DEA (Homburg, 2001; Yeh, 1996). Taken together, this study examines the relationship between ESG and efficiency, which is considered in a holistic manner.

The paper proceeds as follows. The next section reviews prior studies, while the third section discusses methodology and data collection used in this study. The fourth section presents the empirical results. The final section concludes this study.

The Impacts of ESG on Corporate Performance in Malaysia

Under the fast-changing business environment, companies without SRI may face some problems such as decline in reputation, loss of customer loyalty and sales, and loss of intellectual capital. In other words, good ESG performance may create intangible values through minimizing unnecessary costs and solving potential conflicts with stakeholders. Ultimately, such companies will enjoy continuous support from stakeholders like consumers and investors who value ESG in business. This means that top management of a company has to consider ESG when making business decision. The growing number of ESG reports is an example whereby companies incorporate ESG into business practices (Lee & Saen, 2012).

The extant literature has examined the relationship between various aspects of ESG and firm performance. However, in this section, we only review studies that have been conducted in the Malaysian context. In order to highlight any gaps in which our study addresses, the focus of review is on (1) the scope of investigation, (2) sample used, (3) measurement of variables, and (4) the findings. While we only try to develop some trends here, a full list of studies reviewed is available in Table 1. The list is not exhaustive; however, we believe that we have covered a sufficient number of important journal articles.
Table 1: Prior studies examining the association between ESG and FP in Malaysia (FP influences ESG)

<table>
<thead>
<tr>
<th>No</th>
<th>Author(s)</th>
<th>Sample</th>
<th>ESG component</th>
<th>ESG measure</th>
<th>Firm performance</th>
<th>Findings</th>
</tr>
</thead>
</table>
| 1  | Amran et al. (2012) | 100 PLCs (35 members of sustainability networks; 65 conveniently selected from several industries) | Environment | - Annual report and sustainability report disclosures 2009  
- GHG disclosure (5 items, max: 12) | Lag return on assets | Positive and significant |
- Categories: human resource, value-added, environment, community, & product  
- 21 items (1-0 scoring) | Profit before tax over total assets | Positive but not significant |
| 3  | Othman et al. (2011) | 117 PLCs from industrial products, properties, and plantation sectors (random) | ESG | - Annual report disclosures 2007  
- Categories: citizenship (community & environment), workplace, and governance (marketplace)  
- 40 items (0-2 scale; max: 80) | Profit after tax over total assets (control variable) | Positive and significant |
| 4  | Sheikh Abu Bakar & Ameer (2011) | 333 PLCs (6 sectors); only 131 reporting companies selected for further analysis | CSR | - Annual report disclosures 2007  
- Readability score - using Flesh Reading Ease and Bullfighter composite index | Earnings before tax over total assets  
- Tobin’s q | Positive and significant |
| 5  | Wan Abd Rahman et al. (2011) | 44 GLCs | CSR | - Annual report disclosures 2005-2006  
- Categories: human resource, community, marketplace, & environment  
- 16 items (Number of sentences) | Net profit after tax over sales | Positive but not significant |
- Classified into detailed, superficial, and both | Net income over assets (high, medium, and low) | Not significant |
- 19 items (0-3 scoring; number of sentences) | Average return on assets | Negative but not significant |
- Board size  
- Board independence | Book to market ratio  
- Insignificant  
- Board size: Year 2000 (+) | |
| 9  | Muhamad et al. (2009) | 159 PLCs (random) | Governance | - Annual report disclosures 2006  
- Disclosure index (1,0 scoring) | Net profit margin | Positive but not significant |

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Table 1 Prior studies examining the association between ESG and FP in Malaysia (FP influences ESG)

<table>
<thead>
<tr>
<th>No</th>
<th>Author(s)</th>
<th>Sample</th>
<th>ESG component</th>
<th>ESG measure</th>
<th>Firm performance</th>
<th>Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Othman et al. (2009)</td>
<td>Top 56 Shari'ah-approved PLCs</td>
<td>(Islamic) ESG</td>
<td>• Annual report disclosures 2004-2006</td>
<td>Profit before tax</td>
<td>Positive but not significant</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Categories: Finance &amp; investments, products and services, employees, society, environment, &amp; corporate governance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• 43 items (1,0 scoring)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Shakir (2008)</td>
<td>81 PLCs from the properties sector</td>
<td>Governance</td>
<td>• Year of analysis: 1999-2005</td>
<td>Tobin's q (-)</td>
<td>Market value (+)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Block ownership (≥5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Amran et al. (2007)</td>
<td>Top 100 companies (PLCs)</td>
<td>Social</td>
<td>• Amount of cash donation for 2004</td>
<td>Profit before tax</td>
<td>Positive but not significant</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• 65 companies – collected from a previous study; 35 – from annual report/website</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Mohamad Ariff et al. (2007)</td>
<td>95 companies in the Corporate Governance rating</td>
<td>Governance</td>
<td>• Classified into top and bottom 50%</td>
<td>Net profit margin</td>
<td>Positive but not significant</td>
</tr>
<tr>
<td>14</td>
<td>Mohd Ghazali (2007)</td>
<td>87 Composite Index non-financial companies</td>
<td>CSR</td>
<td>• Annual report disclosures 2001</td>
<td>Profit before tax over total assets</td>
<td>Positive but not significant</td>
</tr>
<tr>
<td>15</td>
<td>Haniffa &amp; Cooke (2005)</td>
<td>139 non-financial PLCs (stratified)</td>
<td>CSR</td>
<td>• Annual report disclosures 1996 and 2002</td>
<td>Earnings after tax over total equity (control variable)</td>
<td>Positive and significant</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Categories: community, environmental, employee, product/service, &amp; value-added</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• 41 items (1,0 scoring; number of words)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Ahmad et al. (2003)</td>
<td>299 PLCs (randomly-selected)</td>
<td>Environment</td>
<td>• Annual report disclosures 1999</td>
<td>Profit over assets</td>
<td>Positive but not significant</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Incidence (report/not)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Overall, based on our review, the findings on the relationship between ESG (or its components) and firm performance have been inconclusive. However, the large majority found the influence to be insignificant (bin Abd. Rahman, binti Yusoff, & binti Wan Mohamed, 2009; Esa & Anum Mohd Ghazali, 2012; Hawani Wan Abd Rahman, Mohamed Zain, & Hanim Yaakop Yahaya Al-Haj, 2011). The same situation is said to happen for studies examining the impact of ESG on firm performance. For example, (Koe Hwee Nga, 2009) found that ISO 14000¹ adopters have significantly better ROE than the non-adopters. However, the same finding was not observed when using sales and market capitalisation as the proxies for financial performance. Additionally, Ponnu & Ramthandin (2008) found that companies with higher corporate governance rating have better ROE only when weighted rating score was used (but not when using the raw score) and the rating had no impact on the holding period return of the sample companies. This implies that different

¹ ISO 14000 is a series of environmental management standards developed and published by the International Organization for Standardization (ISO) for organizations. The ISO 14000 standards provide a guideline or framework for organizations that need to systematize and improve their environmental management efforts.

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measure could lead to different findings. Thus, the inconsistent findings offered by the previous studies warrant another separate research to be conducted. Theories that have been applied to support this proportion “by engaging in ESG initiatives, companies can improve their financial performance” include good management theory (Fauzi, 2009), porter hypothesis (Wagner, Schaltegger, & Wehmeyer, 2001), stakeholder theory (Saleh, Zulkifli, & Muhamad, 2011), and stewardship theory (Koe Hwee Nga, 2009). Therefore, we develop the following alternate hypothesis:

Hypothesis: Environmental, Social and Governance have impacts on corporate performance.

DESCRIPTION OF METHODOLOGY

Data Collection

The data for ESG is based on the Sustainalytics ESG Research data available in the Bloomberg made by companies in their annual reports, stand-alone reports, and websites. We choose secondary data for several reasons. Firstly, the data is easily accessible from databases. Secondly, we believe that companies would disclose information should they perceive the information is important for the stakeholders to make decisions. In this regard, we assume that disclosure, to a large extent, equates the actual practice. Thirdly, the use of secondary data is consistent with the previous studies in this area (Amran, Ooi, Nejati, Zulkafli, & Lim, 2012; Esa & Anum Mohd Ghazali, 2012; Hawani Wan Abd Rahman et al., 2011; Ponnu & Ramthandin, 2008; Saleh et al., 2011).

After removing observations with missing data, we have a final sample of 387 firm-year observations for analyses. Our sample companies are GLCs in Malaysia, covering the period from 2006-2012. This study does not rely on the list of GLCs published on The Putrajaya Committee on GLC High Performance (PCG) website as it is outdated at the time of this writing. We identify GLCs as Malaysian listed companies with 20% equity shares held by GLICs (Zin & Sulaiman, 2011).

Our study focus on the impacts of ESG on firm performance of Malaysian GLCs. Prior literature in Malaysia has largely focused on public listed companies in general. Esa & Anum Mohd Ghazali (2012) and Hawani Wan Abd Rahman et al. (2011) examined the association of ESG and firm performance among GLCs, however, the number of sample is rather small with 27 and 44 companies, respectively. Using GLCs as the focus is essential since we expect these companies to be more proactive in ESG initiatives than their counterparts, as a result of various Government initiatives on ESG.

Methodology

To provide answers to our research questions, we apply a two-stage approach. In the first (1) stage, we estimate efficiency performance of our sample companies using DEA. In the second (2) stage, this study performs regression analysis to examine the impact of ESG on efficiency performance.
**Performance Measure: Data envelopment analysis (DEA)**

DEA, a widely used linear-programming-based composite tool, is developed by Charnes, Cooper, & Rhodes (1978) and extended by Banker, Charnes, & Cooper (1984). DEA, a mathematical technique comparing multiple inputs and outputs of decision-making units (DMUs) for measuring relative DMUs’ efficiency, allows the identification of benchmarking. Instead of using merely unidimensional ratios and other individual financial variables, IC indicators such as human capital and structural capital can be accommodated so that possible interactions between them can be captured to derive efficiency scores using DEA. Moreover, DEA approach provides added information (Feroz et al., 2003).

**Truncated Regression Model**

Note that efficiency scores range from zero to one. As the truncated regression technique is able to offset the bias involved in estimating such parameters, this study adopts truncated regression proposed by Simar & Wilson (2007) to examine the impact of exogenous factors on operating efficiency and ESG score. In the regression analysis, we will run truncated regression for Equation (2). The following regression models are estimated:

\[ \text{EFF}_{it} = \alpha_0 + \alpha_1 \text{ENV}_{it} + \alpha_2 \text{SOC}_{it} + \alpha_3 \text{GOV}_{it} + \alpha_4 \text{FSIZE}_{it} + \alpha_5 \text{FLEV}_{it} + \alpha_6 \text{MTB}_{it} + \alpha_7 \text{OCF}_{it} + \varepsilon \]  

(2)

where

- \( \text{EFF}_{it} \): The efficiency score in year \( t \).
- \( \text{ENV}_{it} \): The percentage of environmental-related disclosures of firm \( i \) at period \( t \).
- \( \text{SOC}_{it} \): The percentage of social-related disclosures of firm \( i \) at period \( t \).
- \( \text{GOV}_{it} \): The percentage of governance-related disclosure of firm \( i \) at period \( t \).
- \( \text{FSIZE}_{it} \): The natural logarithm of total assets of firm \( i \) at period \( t \).
- \( \text{FLEV}_{it} \): The ratio of the sum of short-term and long-term borrowings to total assets of firm \( i \) at period \( t \).
- \( \text{MTB}_{it} \): The ratio of market value to book value of firm \( i \) at period \( t \).
- \( \text{OCF}_{it} \): The ratio of operating cash flow to total assets of firm \( i \) at period \( t \).

**EMPIRICAL RESULTS**

Table 2 presents the descriptive statistics of dependent variable and explanatory variables. The average of environmental score (ENV) in our sample is about 1.484. The mean of social score (SOC) is 2.863, and the mean of governance score (GOV) is about 34.606. Among the three pillar of ESG, governance seems to have the largest amount value, followed by social aspects. This suggests that the firms disclosed GOV information more than SOC and ENV. It is also noteworthy that the standard deviation of GOV and SOC are relatively high as compared to the ENV. Meanwhile, the mean firm size is approximately 9.185, while the mean of firm leverage is about 0.229.

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Table 2 Descriptive Statistics

<table>
<thead>
<tr>
<th>Variable</th>
<th>Mean</th>
<th>Median</th>
<th>Maximum</th>
<th>Minimum</th>
<th>Std. Dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFF</td>
<td>0.541</td>
<td>0.472</td>
<td>1</td>
<td>0.020</td>
<td>0.336</td>
</tr>
<tr>
<td>ESG</td>
<td>54.475</td>
<td>30.165</td>
<td>100.000</td>
<td>9.211</td>
<td>40.668</td>
</tr>
<tr>
<td>ENV</td>
<td>1.484</td>
<td>0</td>
<td>49.612</td>
<td>0</td>
<td>5.554</td>
</tr>
<tr>
<td>SOC</td>
<td>2.863</td>
<td>0</td>
<td>60.938</td>
<td>0</td>
<td>9.166</td>
</tr>
<tr>
<td>GOV</td>
<td>34.606</td>
<td>48.214</td>
<td>73.214</td>
<td>0.103</td>
<td>21.829</td>
</tr>
<tr>
<td>FLEV</td>
<td>0.229</td>
<td>0.210</td>
<td>0.659</td>
<td>0</td>
<td>0.166</td>
</tr>
<tr>
<td>MTB</td>
<td>3.967</td>
<td>1.796</td>
<td>157.392</td>
<td>0.303</td>
<td>10.352</td>
</tr>
<tr>
<td>OCF</td>
<td>0.092</td>
<td>0.062</td>
<td>0.752</td>
<td>-0.117</td>
<td>0.116</td>
</tr>
</tbody>
</table>

Table 3 reports the Pearson correlation coefficients in a two-tailed setting. GOV is significantly and positively related to efficiency (EFF). This means that firms’ performance is increased when the firms disclose the GOV information. Meanwhile, we only find a significantly positive correlation between governance (GOV) and ESG. From this study, we can see among the three pillars of ESG, firms are most likely to disclose GOV information because it can enhance the efficiency of the firm performance. Other correlation coefficients are all lower than 0.5. Besides, the maximum value of untabulated variance inflation factors (VIF) is about 2.0. These results suggest that there is no multicollinearity problem for multivariate analysis.

Table 3 Correlation Matrix

<table>
<thead>
<tr>
<th>Probability</th>
<th>EFF</th>
<th>ESG</th>
<th>ENV</th>
<th>SOC</th>
<th>GOV</th>
<th>FSIZE</th>
<th>FLEV</th>
<th>MTB</th>
<th>OCF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFF</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESG</td>
<td>0.0216</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV</td>
<td>-0.0037</td>
<td>-</td>
<td>0.1478***</td>
<td>0.2059***</td>
<td>-0.0720</td>
<td>-0.0894*</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC</td>
<td>0.1185*</td>
<td>0.1925***</td>
<td>-0.0720</td>
<td>-0.0894*</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GOV</td>
<td>0.1138***</td>
<td>0.1925***</td>
<td>-0.0720</td>
<td>-0.0894*</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSIZE</td>
<td>0.0968*</td>
<td>0.0945*</td>
<td>0.0385</td>
<td>0.0857*</td>
<td>0.4354***</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FLEV</td>
<td>-0.0974**</td>
<td>-0.0974**</td>
<td>0.0352</td>
<td>0.0262</td>
<td>-0.0956**</td>
<td>0.1952***</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTB</td>
<td>0.2341*</td>
<td>0.1399***</td>
<td>0.1992***</td>
<td>0.1121**</td>
<td>-0.0524</td>
<td>-</td>
<td>0.0467</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>OCF</td>
<td>0.3574*</td>
<td>0.07705</td>
<td>0.2297***</td>
<td>0.1236**</td>
<td>-</td>
<td>-</td>
<td>0.6252***</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

*, ** and *** are statistical significances at the 10%, 5% and 1% levels, respectively.

Table 4 reports the outcomes of the regression analysis. The models are significant at the 0.01 significance level. The result shows that environment (ENV) has a negative relationship with efficiency (EFF) and the coefficient is significant. While previous studies that focus on environment issues find a positive results between environment and firm efficiency (Al-Najjar & Anfimiadou, 2012; Derwall, 2007; Sinkin, Wright, & Burnett, 2008), this study argues that the focus of GLCs could be the reason for the negative association.

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Table 4 Regression Results (Dependent variable: EFF)

<table>
<thead>
<tr>
<th>Variable</th>
<th>OLS Coefficient</th>
<th>OLS Prob.</th>
<th>Tobit Coefficient</th>
<th>Tobit Prob.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>0.3323**</td>
<td>0.0194</td>
<td>0.2488***</td>
<td>0.0005</td>
</tr>
<tr>
<td>ENV</td>
<td>-0.0096*</td>
<td>0.0772</td>
<td>-0.0154*</td>
<td>0.0641</td>
</tr>
<tr>
<td>SOC</td>
<td>0.0030</td>
<td>0.4500</td>
<td>0.0053</td>
<td>0.3592</td>
</tr>
<tr>
<td>GOV</td>
<td>-0.0596</td>
<td>0.5218</td>
<td>-0.0457***</td>
<td>0.0003</td>
</tr>
<tr>
<td>FSIZE</td>
<td>0.0245*</td>
<td>0.0810</td>
<td>0.0363</td>
<td>0.5561</td>
</tr>
<tr>
<td>FLEV</td>
<td>-0.4153***</td>
<td>0.0027</td>
<td>-0.5392***</td>
<td>0.0004</td>
</tr>
<tr>
<td>MTB</td>
<td>0.0015</td>
<td>0.4792</td>
<td>0.0152</td>
<td>0.3959</td>
</tr>
<tr>
<td>OCF</td>
<td>1.0845***</td>
<td>0.0000</td>
<td>1.1873***</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

Adjusted R-squared: 0.1697
F-statistic: 12.2726***
Log likelihood: -218.127

* Statistical significance at the 10% level.
** Statistical significance at the 5% level.
*** Statistical significance at the 1% level.

Specifically, the role of ESG in GLCs can be different in the sense that government may lead and promote more spending on protecting the environment without considering the consequence of the high spending on ENV on its firm performance. The coefficient of social (SOC) is positive and insignificant; this finding is similar with Filbeck, Gorman, & Zhao (2009). For the governance aspect, Statman & Glushkov (2009) and Core, Guay, & Rusticus (2006) find that this aspect does not affect firm performance. Meanwhile, this study shows the coefficients of governance (GOV) are negative but only significant in the Tobin regression. These suggest that the SOC and GOV of ESG generally do not enhance firm performance. Firm size (FSIZE), market to book (MTB) and operating cash flow (OCF) are positively related to EFF but the coefficient of MTB is insignificant. However, firm leverage (FLEV) has a significantly negative association with efficiency.

DISCUSSION

This study may create greater awareness on ESG practices among companies in Malaysia. Through the use of GLCs as our sample, we may show that Malaysia government plays a leading role in leading the corporate sector to invest in ESG for sustainable long-term performance. The information obtained from this study provides insights to ponder on the effectiveness of the government initiative in launching the Government-linked Companies Transformation Programme (GLCTP) in May 2004. This study covers up to the final phase of the 10-year plan of GLCTP. By promoting investment in ESG, Malaysia will be able to attract more foreign direct investments or investors who value sustainability in business. This supports the government’s first idea out of ten ideas contained in the 10th Malaysia Plan (2011-2015) which is internally driven, externally aware. This awareness will subsequently promote growth in private sector investment. This study is very important to many stakeholders in helping them improve the living standard and quality of life in many ways (from the perspective of environmental, social, and governance) as aspirated in the 10th Malaysia Plan through income and capacity building programmes, strengthening the social safety net and addressing the needs of the disadvantaged groups.

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CONCLUSION

We explore the impact of ESG on efficiency using GLCs in Malaysia from year 2006 to 2012. This study obtains data on the ESG disclosure level from the Sustainalytics ESG Research data available in the Bloomberg. The study finds that GLCs focus more on governance disclosures, followed by social and environmental disclosures. The regression analyses show that governance is positively associated with firm efficiency, but social and environmental factors have no similar effect. In summary, this study provides an insight on the limited literature on ESG and informs the relevant stakeholders on the important ESG components for financial and investment decisions.

There are limitations in this study that we need to acknowledge. First, the sample of companies comes from GLCs, leaving us unable to make general conclusions to all companies in Malaysia. It would be interesting to carry out a similar study that tests other companies in Malaysia to strengthen the results of this study. Second, the Sustainalytics ESG Research is used to test the ESG reporting, suggesting that future studies may utilise alternative ESG dataset. In other words, a comparison study can be performed in future research.

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