

Environmental Management System and Organizational Performance in Malaysian Manufacturing Industry

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To Link this Article: <http://dx.doi.org/10.6007/IJARBS/v11-i3/8978>

DOI:10.6007/IJARBS/v11-i3/8978

Published Date: 17 March 2021

Abstract

The aim of this conceptual paper is to review the relationship between environmental management system and organizational performance in Malaysian manufacturing industry. The paper is prepared by reviewing the relevant literatures on environmental management system and organizational performance. The framework will provide a guide to Malaysian manufacturing industry to improve the environmental management system and organizational performance. The conceptual framework developed in this study can be used as a guideline to implement the environmental management system and organizational performance in Malaysian manufacturing industry. Thus, a conceptual framework of the importance of environmental management system and organizational performance, can serve to guide future research.

Keywords: Environmental Management System, Organizational Performance, Planning, Auditing, Manufacturing Industry

Introduction

Management accounting research can assist managers to access the management system and to achieve the company's goals (Robalo, 2014). In this study, Environmental Management System (EMS) plays an important role within organizations by applying useful environmental information. Regarding to this, companies can include EMS as a key element of the management accounting perspective. This is because EMS can be a successful tool within organizations to improve the performance. In addition, EMS is expected to assist organizations in improving environmental management by providing useful information

(Ghasemi et al., 2016). Due to this, the implementation of EMS can assist organizations in making more accurate decisions, which will lead to improving the performance. Hence, the EMS implementation can assist organizations to make better decisions and improve the performance based on the management accounting perspective.

Management accounting describes the techniques and procedures that provide financial and non-financial information to make better decisions in order to improve OPM and to achieve the organizational objectives (Kihn, 2010). The use of management accounting can improve the performance measurements. In this regard, performance measurement has been the dependent variable of management accounting research (Noordin et al., 2015; Fuzi et al., 2016).

EMS plays an important role in providing environmental information and improving OPM (Islam & Hu, 2012; Fuzi, Habidin et al., 2019). These findings also showed that the contingency theory includes complying with environmental regulations, improving environmental management, reducing environmental risks, and enhancing environmental audits. Joshi and Li (2016) also discussed the connection between EMS and OPM. In this regard, the contingency theory can be considered as evidence for improving EMS and OPM, thus providing support for the contingency theory. Therefore, this study concludes that the contingency theory is one of the instruments to improve management systems and the practices of an organization, particularly in the Malaysian manufacturing industry. From the above discussion, it is clear that the contingency theory is important in influencing the environmental information of organizations in the Malaysian manufacturing industry.

This paper is organized as follows. The literature review is presented in EMS and OPM while the proposed conceptual framework is described in methodology. Finally, the conclusions based on this study.

Literature Review

Environmental Management System (EMS)

Salvado, Castro, and Lopez (2015) mentioned that EMS can assist organizations in addressing environmental issues and that it is intended to reduce costs, and improve the environmental management, performance, and reputation of the company. Moreover, EMS can be used in relation to the performance and continuous improvement of the company. Hariz and Bahmed (2013) stated that EMS refers to the principle of continuous improvement of OPM related to the activities of the company. Thus, EMS is beneficial to the process, procedure, structure, and improvement, especially in Malaysian manufacturing industry.

Singh, Jain, and Sharma (2016) noted that EMS refers to the systematic procedures intended to ensure continuous improvement in improving the performance. In addition, EMS is a management method to manage the environment and to achieve the goal of improving the OPM of the company. In conclusion, the importance of EMS can thus assist the organizations to improve the performance in Malaysian manufacturing industry. The organizations should be aware of the environmental issues by applying EMS implementation.

Organizational Performance (OPM)

Organizational performance (OPM) refers to the results of an organization as measured to achieve the organizational goals (McGivern & Tvorik, 1997). The Malaysian manufacturing industry can measure the OPM based on the financial and operational performance. Financial performance measures the company's strategy, evaluation, and outcomes that contribute to

OPM (Santis, Albuquerque, & Lizarelli, 2016; Fuzi, Habidin, Janudin, & Ong, 2017) such as profitability, sales growth, reduced costs, and return on investment.

The implementation of operational performance can improve the company's operations and provide the main interest in achieving the organizational goals (Iyer, 2011; Fuzi, Habidin, Janudin, & Ong, 2019). In addition, operational performance contributes in assisting companies to manage the environmental management efficiently and effectively (Parast, Adams, & Jones, 2011). Hwang, Han, Jun, and Park (2014) pointed out that operational performance is used to measure the operational effectiveness.

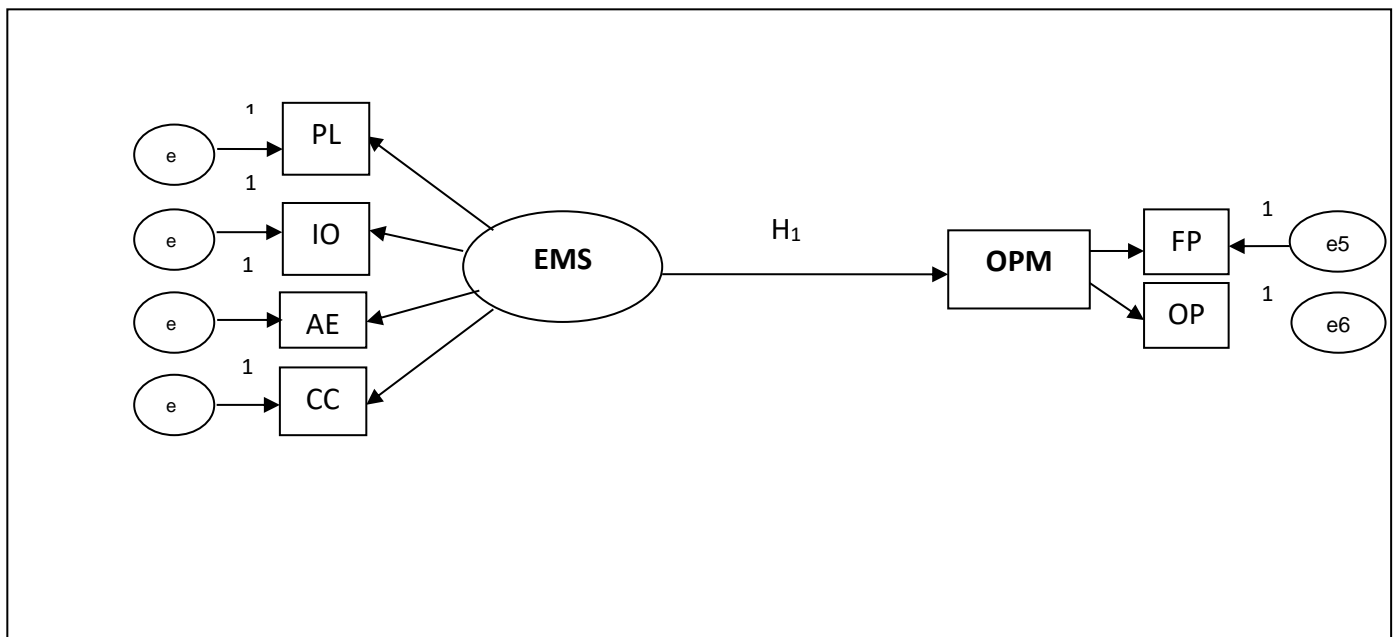
Research Methodology

In this study, the conceptual framework is developed and tested using structural equation modelling (SEM) based on the previous studies. Structural equation modelling is used to examine the relationship of environmental management system and organizational performance. The main constructs are proposed in order to develop the proposed conceptual framework. This framework can be used as a guideline to improve environmental management system and organizational performance. The questionnaires were distributed to the respondents using an online survey tool followed by telephone calls and through mail. The survey will conduct in two stages, the pilot study and the main study. The pilot study is carried out prior to the main study to ensure the validity and the reliability of the instrument.

A Proposed Conceptual Framework

The proposed conceptual framework aims to examine the relationship between EMS and OPM in Malaysian manufacturing industry. Figure 1.1 represents the proposed conceptual framework by the researcher.

H₁: There is a positive and significant relationship between EMS and OPM in Malaysian manufacturing industry.



*Notes: EMS=Environmental Management System, OPM=Organizational Performance, PL= Planning, IO= Implementation and Operation, AE= Auditing and Evaluation, CC= Checking and Correction Action, FP= Financial Performance, OP= Operational Performance

Figure 1. The Proposed Conceptual Framework

Farok and Searcy (2015) conducted a research in China to examine the relationship between EMS and OPM. The result of the study found that EMS implementation was positively and significantly related to OPM. OPM can be improved by implementing EMS in the organization. Research was conducted by Phan and Baird (2015) to investigate the relationship between EMS and OPM in Australian organizations by engaging 820 managers from agriculture, mining, manufacturing, construction, and health sectors. Results indicated that there was a link between EMS and OPM. Another research conducted in the Swedish manufacturing industry, and results showed that there was a positive relationship between EMS and OPM (Zobel & Malmgre, 2016). As a result, it was strengthening the effect of EMS on OPM can improve the environmental management in Malaysian manufacturing industry.

Conclusion

In conclusion, EMS has the potential to improve OPM in Malaysian manufacturing industry. It is a reasonable expectation to implement EMS in Malaysian manufacturing industry, hence resulting in better OPM. For practical implications, this research provides important guidelines for manufacturers and related companies to implement EMS in order to improve OPM. This research provides important information for decision makers involved in EMS implementation and also provides useful references for future researchers in this research area. This result could be used as a specific reference for policy making to continuously improve the OPM. These findings suggest that policy makers and government need specifically emphasize the implementation of EMS and OPM to encourage the integration of environmental issues into decision-making. Future research in the area EMS and OPM can be extended in a number of directions. Apart from these contributions, the research outcome has also provided useful guidance for future research. Therefore, it can be concluded that the implementation of EMS is found to be useful to Malaysian manufacturing industry and is considered successful in enhancing the OPM.

Acknowledgement

The researchers would like to acknowledge the Research Management Centre (RMC), Universiti Teknologi Malaysia.

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