

แบบขอส่งเอกสารการเผยแพร่บทความวิจัย เพื่อใช้สำหรับการเสนอขอจบการศึกษา
ระดับบัณฑิตศึกษา

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ศึกษาที่ มหาวิทยาลัย ศูนย์.....
เป็นนักศึกษา ภาคปกติ ภาคพิเศษ เข้าศึกษาภาคการศึกษาที่..... 2 ปีการศึกษา..... 256๐
ที่อยู่ที่สามารถติดต่อได้ บ้านเลขที่..... ๖๐๑ หมู่ ๕ จ.รังสิต ทางัด ๕๖ แขวงบางเขิน เขตบางพลัด จังหวัด..... ปทุมธานี
รหัสไปรษณีย์..... 1๐-1๐๐ โทรศัพท์..... ๐๘๑-๖๙๔-๔๕๗๗ แฟกซ์..... อีเมล..... p.witaya@hotmail.com
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ตีพิมพ์ในวารสารทางวิชาการ

ชื่อเรื่องบทความ..... A model of Causal Relationships between the Factors Influencing
The Performance of Green Organization Managing Energy - Saving Buildings in
ภาษาอังกฤษ..... Bangkok and Vicinity

ชื่อวารสาร..... ระดับนานาชาติ ระดับชาติ
อยู่ในฐานข้อมูล TCI Scopus ISI อื่นๆ โปรดระบุ.....
เป็นวารสารของประเทศ..... Romania ปีที่..... 9 ฉบับที่..... 7 หน้าที่..... 1656 - 1663

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ชื่อเรื่องบทความ..... ปัจจัยที่ส่งผลต่อการปฏิบัติงานขององค์กรสีเขียวในประเทศไทย

ภาษาอังกฤษ..... Factors Affecting for Green Organization Performance in Thailand

ชื่องานประชุมทางวิชาการ..... การประชุมวิชาการระดับชาติ ครั้งที่ 5 ครั้งที่ ๕ ม.ค. ๒๕๖๓ วิทยาลัยนวัตกรรมการจัดการ
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การนำเสนอ แบบบรรยาย (Oral Presentation) แบบโปสเตอร์ (Poster Presentation)

การเผยแพร่ในรูปแบบอื่นๆ.....

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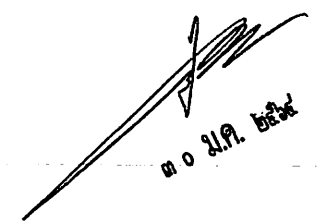
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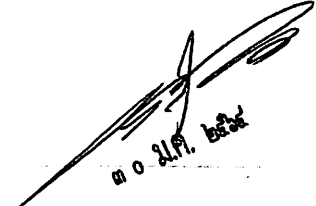
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Quarterly

Volume XI

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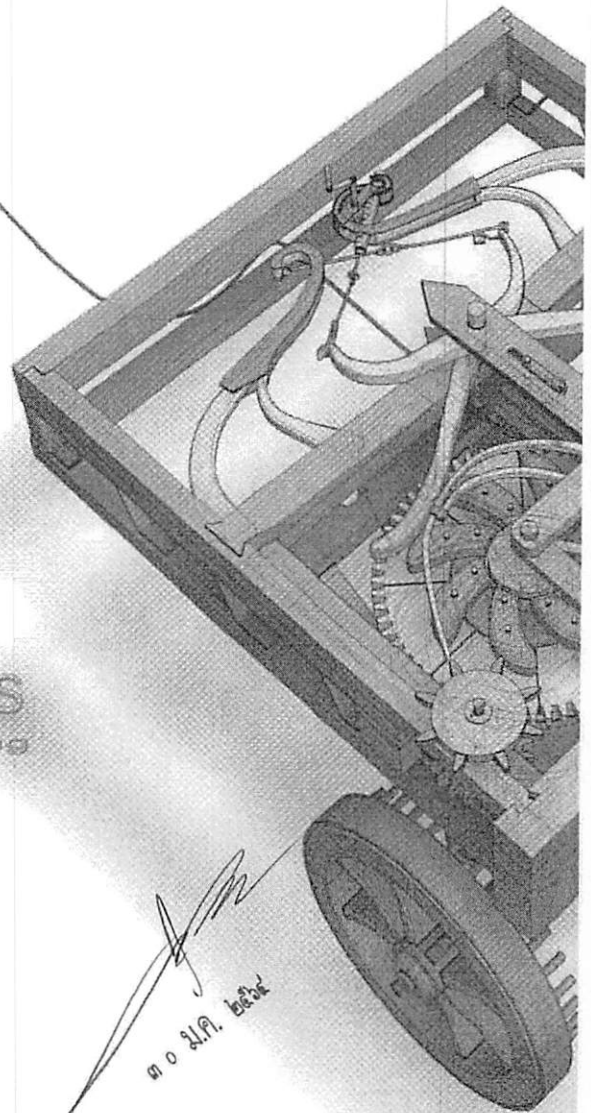
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Table of Contents:

1	Strict Liability Principle Application in the Management of Straits Marine Pollution for International Navigation according to the Indonesia Sea Convention Law Lish Putu SUDINI, Anak Agung Gede RAKA, Tutut HERAWAN	1601
2	Assessment of Waste Management System among Hotels and Guest Houses in Minna Ebenezer A. OLUWOLE, Hamza ATT AHIRU, Olorunfemi B. OYEDIRAN, Stephen K. OMOGUGBA, Patience N. MEDUNA, Gbemiga T. KOLAWOLE	1609
3	Financial Mechanism for Managing the Environmental Innovation Development of the Economy in Ukraine Victoria BORISOVA, Iryna SAMOSHKINA, Larysa RYBINA, Olena SHUMKOVA	1617
4	The Empirical Research of The Potential, Awareness and Current State of Agricultural Waste Use to Ensure Energy Autonomy of Agricultural Enterprises of Ukraine Vitaliy LUTSIK, Natalia PRYSHLIK, Dina TOKARCHUK, Irina SEMCHUK	1634
5	Environmental Innovations as a Factor of Increasing the Economic Efficiency of Production. Study Case: Pavlodar Region Zylfiya A. ARYNOVA, Lyazzatkenovna KAIDAROVA, Rysly B. SARTOVA, Gulmira D. BAYANDINA, Shynar Z. RAKHMETULLINA, Mariyam T. ZHETESSOV	1649
6	A Model of the Causal Relationships between the Factors Influencing the Performance of Green Organizations Managing Energy-Saving Buildings in Bangkok and Vicinity Witaya PATARAMETAGUL, Ananya POPRADIT, Nisa PAKVILAI, Ampon SHOOSANUK	1656
7	Innovative Approaches to the Management of Commercial and Economic Activities of Environmental Enterprise - "Spicy Pack" Valentyna ARANCHIY, Ilona YASNOLOB, Natalia DEMIANENKO, Oleksandr BEZKROVNYI, Olena MYKHAILOVA, Svitlana PYSARENKO, Liudmyla CHIP, Oleksandr ARESTOV, Liudmyla HORBATIUK	1664
8	Analysis and Assessment of Seismic Hazard for the Azov-Black Sea Recreation Area Marina ZARETSKAYA	1672
9	Nipa Forest as the Ecological Services in Eastern Coast of Thailand Tantus PIEKKOONTOD, Pumiphat PACHANA, Karnjana HRIMPENG, Kitsana CHAROENJIT	1683
10	Technical Equipment of Agriculture and the Problems of the Agricultural Sector Rehabilitation in the Context of Kazakhstan and Mongolia S.M. TOKENOVA, A.B. KULEKESHOVA, M.H. KADRIMOV, S.K. TAZHIKENOVA	1692
11	Public - Private Partnerships in Ecotourism Development in Protected Areas: A Case Study of Tunkinsky National Park in Russia Lyudmila MAKSANOVA, Sembrika IVANOVA, Darima BUDAEVA, Alyona ANDREEVA	1700
12	The Green Technology Practices and Investments of Sipalay City Beach - Resorts Marjon C. MALACAPAY, Reynaldo TABABA	1708
13	Sustainable Tourism Business Promotion in Pakistan: A Descriptive Analysis of Logistics and Environmental Agreements Nazir ULLAH, Saidatul Nadia Abd AZIZ, Rao Qasim IDREES	1719

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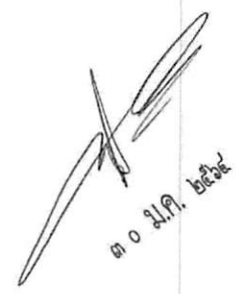
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- 14 The Disaster as a Factor in the Development of Modern Tourism. A Study Case Based on the Chernobyl Nuclear Power Plant 1729
Daniel BAKOTA, Robert MACHOWSKI, Arkadiusz PŁOMIŃSKI, Aliaksei RAMANCHUK, Mariusz RZĘTALA, Lesia ZASTAVETSKA
- 15 Comparative Evaluation of the Efficiency of Regulatory Mechanisms of the Oil and Gas Industry and Industrial Waste Processing 1742
Dinara Y. SATENOVA, Zhanar M. BULAKBAY, Saule AZYLKANOVA, Rysty K. BERSTEMBAEVA, Zhibek ABYLKASSIMOVA, Jamiliya SEITKHOZHINA
- 16 Greenhouse Gas Emissions from Household Waste in Denpasar City 1750
Made ARMADI, Wayan SUARNA, Made SUDARMA, Made Sudiana MAHENDRA, Nyoman SUDIPA
- 17 Environmental Components and Mechanism of Public - Private Partnership in the Area of Risk Insurance in Crop 1761
Zamzaguł BAIMAGAMBETOVA, Rymkul ISMAILOVA, Aisulu KULMAGANBETOVA, Meiramkul KASSIMBEKOVA, Zhibek OMARKHANOVA
- 18 An Investigation into Medical Waste Management Practices in Hospitals in Northern Peninsula Malaysia 1779
Abdelnaser OMRAN, Mohammed Khalifa Abdelsalam MOHAMMED
- 19 Legal Regulation of Agricultural Cooperation. New Approaches and Prospects for Developing Rural Areas 1799
Kalymbek BAKYTYZHAN, Lazzat YERKINBAYEVA, Daniya NURMUKHANKYZY, Madina ZHUSUPBEKOVA, Indira NESIPBAYEVA.
- 20 Reasons and Benefits of Seasonal Migrations in the Villages of Rugova 1806
Addhe KRASNIQI, Hazer DANA, Tomor ÇELA
- 21 Influence of Financial and Climate Factors on Agricultural Industry Development 1813
Zhanar LUKPANOVA, Zhanar TOYZHIGITOVA, Gulzhan ALINA, Aimagul JUMABEKOVA, Arailym ORAZGALIYEVA
- 22 Main Directions of Increasing Competitiveness Considering Specificity of Agriculture and Its Sustainable Development 1829
Yerzhan ZHUSSUPOV, Madina TURSUMBAYEVA, Roza SHOKHAN, Baglan AIMURZINA, Mazken KAMENOVA, Ainura OMAROVA
- 23 Investment, Organizational and Environmental Aspects of Regulation of Small and Medium Business 1841
Arseniy KRIKUNOV, Ainur UTEUBAYEVA, Berik NAZHIDENOV, Ansar KABIEV, Kulyash BYZDYKOVA, Guinara BAIBASHEVA
- 24 Public Perception of the Main Constraints of Water Supply Shortage and the Availability of Water Supply Resources in Libya 1857
Jouda R. Jouda HAMAD, Wan Zuhairi W. YAAKOB, Abdelnaser OMRAN
- 25 Rehabilitation Tourism Opportunities in the Russian Federation for Recovering COVID-19 Patients 1871
Mikhail A. OSADCHUK, Maxim V. TRUSHIN, Alexey M. OSADCHUK, Ekaterina D. MIRONOVA, Karina S. SOLODENKOVA, Alisa E. LAZAREVA
- 26 An Experience of Tourism Development: How is the Strategy? 1877
Sri Langgeng RATNASARI, Ervin Nora SUSANTI, Widodo ISMANTO, Rona TANJUNG, Dio Caesar DARMA, Gandhi SUTJAHJO



Dr. O. S. P. Bekir



DOI : [https://doi.org/10.14505/jemt.v11.7\(47\).06](https://doi.org/10.14505/jemt.v11.7(47).06)

A Model of the Causal Relationships between the Factors Influencing the Performance of Green Organizations Managing Energy-Saving Buildings in Bangkok and Vicinity

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Suggested Citation:

Patarametagul, W., Popradit, A., Pakvilai, N., Shoosanuk, A. (2020). A Model of the Causal Relationships between the Factors Influencing the Performance of Green Organizations Managing Energy-Saving Buildings in Bangkok and Vicinity. *Journal of Environmental Management and Tourism*, (Volume XI, Winter), 7(47): 1656 - 1663. DOI:10.14505/jemt.v11.7(47).06

Article's History:

Received 11st of August 2020; Received in revised form 2nd of September 2020; Accepted 26th of October 2020; Published 30th of November 2020. Copyright © 2020 by ASERS® Publishing. All rights reserved.

Abstract

The objectives of the present study were (1) to develop a model of the causal relationships between the factors influencing the performance of green organizations (GPM) managing energy-saving buildings in Bangkok and vicinity and (2) to evaluate the consistency between the model constructs and empirical data. Both quantitative and qualitative methods were employed. For the quantitative approach, a survey questionnaire was used to collect data from a sample of 456 representatives of green organizations managing energy-saving buildings in Bangkok and vicinity. As regards the qualitative approach, in-depth interviews were conducted to validate the conceptual framework developed for this research. Then the data were analyzed using descriptive statistics, including percentage, mean, and standard deviation, and inferential statistics, including a structural equation analysis and a Chi-square test. The findings were as follows. First, environmental leadership and environmental innovations had a positive effect on the organizational culture of the green organizations. Also, the environmental management, environmental leadership, environmental innovations, and organizational culture of the green organizations exerted a positive impact on their competitive advantage. In addition, the organizational culture and competitive advantage of the green organizations wielded a positive influence on their performance. Finally, the constructs of the structural equation model were consistent with the empirical data at a satisfactory level with the χ^2 value of 453.977, the df value of 452, the χ^2/df of 1.004, the p-value of 0.465, the goodness of fit index (GFI) value of 0.946, the adjusted GFI, or AGFI, value of 0.925, and the root mean square error of estimation (RMSEA) value of 0.003.

Keywords—causal relationships; green organizations; environmental management; environmental leadership; environmental innovations; organizational cultures.

JEL Classification—Q20; Q37; Q42; Q57; P28; P32.

Introduction#

Environmental problems around the world result in crises that impact all spheres of life (Karataş 2016). The majority of these problems can be traced to human activities (Baltaci and Yirik 2015) which inflict harm on nature and are motivated by self-interest (Devall and Sessions 2001). For instance, while economic activities relating to production and exchanges of goods and services are crucial for human consumption and survival, they also deplete natural resources and produce large volumes of waste that pollute the environment (Anantanasuwong 2016). Thus, environmental conservation is currently a global issue to which all nations attach importance (Office of Natural Resources and Environmental Policy and Planning 2017). In the business arena, organizations of the 21st century not only have to take into consideration their own business growth but also need to follow environmentally friendly practices to ensure sustainability (Boonyasirinun 2015).#

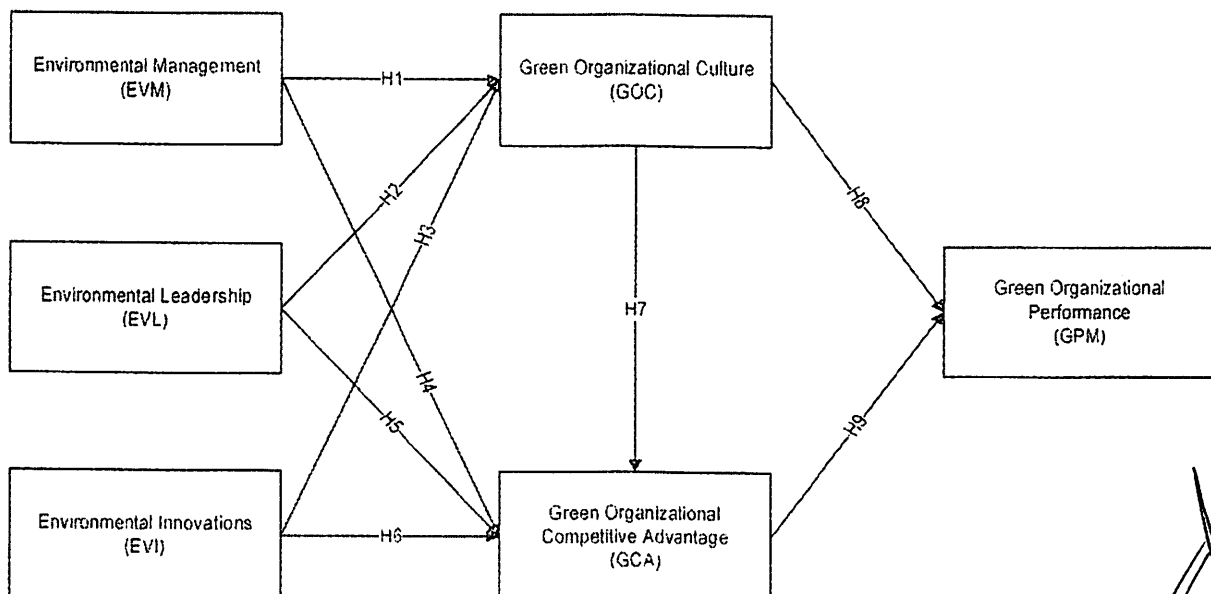
One important strategy adopted by businesses is the concept of the green organization, as it focuses on the commitment to reduce environmental problems in a sustainable manner (Srisai 2014). #

To accord with the tenets of environmental conservation, a green organization places great emphasis on its environmental management, or the planning, formulation, and implementation of specific initiatives, tactics, and procedures in order to control and curb the adverse impacts of its operations on the environment (Schoenherr and Talluri 2013). If successfully carried out, such a scheme will contribute to the development of a green organizational culture (Hamdoun and Zouaoui 2017) and ultimately result in competitive advantage (Somuyiwa, Mclit, and Adebayo 2012). In addition to environmental management, another factor determining the success of a green organization is environmental leadership. This term refers to the process of change that a leader implements in an organization and its members in terms of environmental management success and environmental problem prevention (Chen 2011), as well as the creation of a green organizational culture (Rasid, Manaf, and Quoquab 2013, Hamdoun and Zouaoui 2017). Not only will environmental leadership catalyze environmental innovations in the forms of new processes or modifications to existing ones that aid in preventing or reducing the harm that business operations inflict on the environment (De Marchi 2012), but it will also result in a competitive advantage for the organization in which it prevails (Fernandez, Junquera, and Ordiz 2003, Horbach and Rennings 2013).

Therefore, it is vital to examine the relationships between environmental management (EVM), environmental leadership (EVL), environmental innovations (EVI), green organizational culture (GOC), and the competitive advantage of green organizations (GCA) (Figure 1). Such factors are particularly relevant in the Thai context, where there has been a rising number of green organizations managing energy-saving buildings in Bangkok and its surrounding areas.

This study aims to develop a model of the causal relationships between the factors influencing the performance of green organizations (GPM) managing energy-saving buildings in Bangkok and vicinity, and to evaluate the consistency between the constructs of the model and empirical data.

Figure 1. Factors influencing the performance of green organizations managing energy-saving buildings in Bangkok and vicinity



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1. Methodology

1.1 Research Design

The present study employed a mixed method integrating both quantitative and qualitative approaches. The quantitative data were collected from 456 representatives of green organizations managing energy-saving buildings in Bangkok and vicinity using a survey questionnaire, while the qualitative data were gathered using in-depth interviews to validate the conceptual framework formulated for this research.

1.2 Population

The population of this study was green organizations managing energy-saving buildings in Bangkok and vicinity.

1.3 Research Instruments and Validation

1.3.1 A survey questionnaire used to collect the data from representatives of green organizations managing energy-saving buildings in Bangkok and vicinity

The questionnaire was comprised of seven sections, namely (1) general demographic information, (2) environmental management evaluation, (3) environmental leadership evaluation, (4) environmental innovation evaluation, (5) green organizational culture evaluation, (6) competitive advantage evaluation, and (7) performance evaluation.

1.3.2 In-depth interview questions used to validate the conceptual framework devised for the present study

The research instruments were evaluated by five experts in green organizations and environmental management, comprising academics and businesspeople, in terms of content validity using the item-objective congruence (IOC) index. The IOC requirements were fulfilled with the items in the research instruments scoring 0.60-1.00. In addition, the questions in the survey questionnaire were validated in terms of reliability by being pre-tested on 50 subjects in the sample group ($n=50$). The criteria were met with the Cronbach's alpha coefficient equaling 0.811-0.914 and the item discriminatory power of 0.565-0.765.

1.4 Data collection

1.4.1 The quantitative data were collected to develop the structural equation model and analyze the causal relationships between the factors influencing the performance of green organizations (GPM). The target population was executives of 1,839 green organizations managing energy-saving buildings in Bangkok and vicinity. The sample size was determined at five times the number of parameters in accordance with Hair et al. (2019). Since the number of parameters comprising the conceptual model guiding the present research equaled 82, the number of participants in the study would be 82×5 or 410. The subjects were selected using a simple random sampling technique with the final sample size standing at 456.

1.4.2 The qualitative data were gathered to validate the conceptual framework guiding the investigation of the green organizations managing energy-saving buildings in Bangkok and vicinity that participated in this study.

1.5 Statistics

1.5.1 Statistics used to validate the research instruments are content validity and reliability

1.5.2 Statistics used to analyze the data; (1) descriptive statistics, including percentage, mean, and standard deviation, and (2) inferential statistics, including structural equation analysis and a chi-square test.

2. Result and Discussion

2.1 Demographic Characteristics of the Subjects

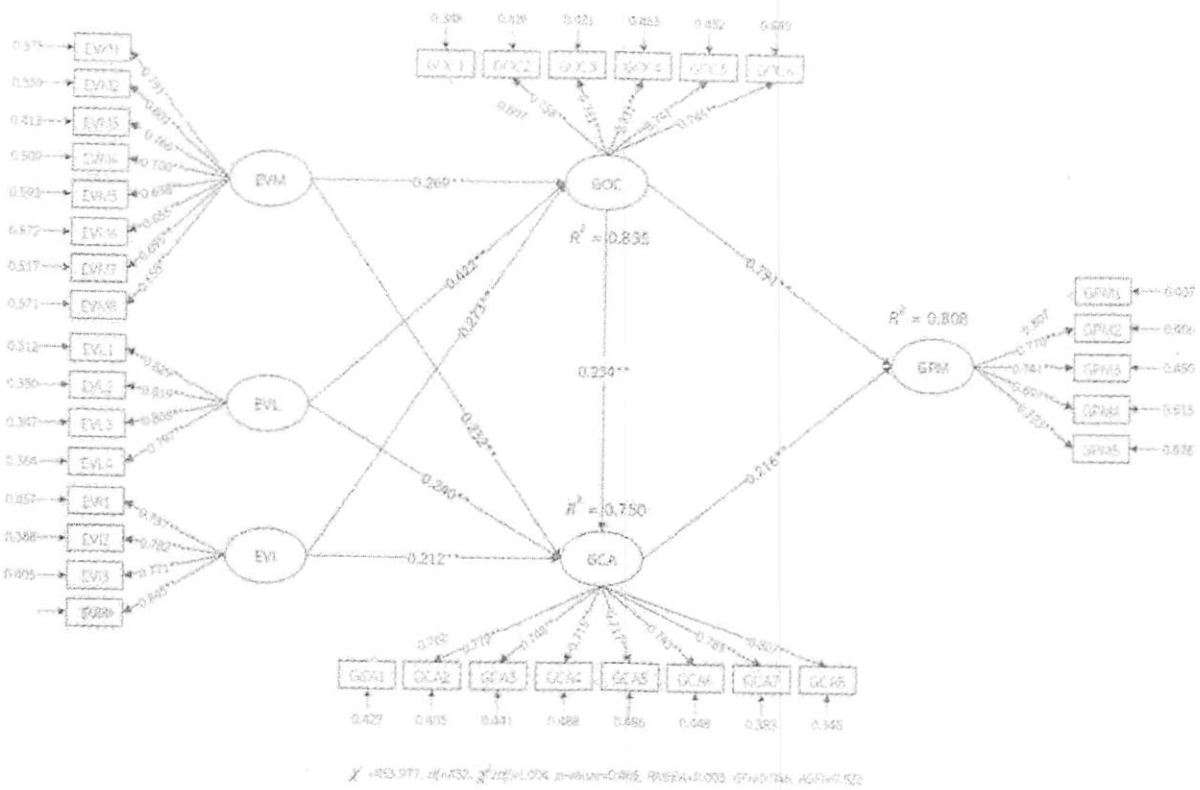
According to the findings, a majority of the subjects were male and married in the 30-40 age range, followed by those aged 41-50. They had earned a bachelor's degree and had been working as a general manager for five to 20 years in an organization with less than 50 employees and with annual sales volume of under 100 million baht. The form of the establishment the subjects were in was mainly a limited company. Most of the subjects assigned high ratings to all the factors under investigation, namely environmental management, environmental leadership, environmental innovations, green organizational culture, and the competitive advantage and performance of a green organization.

2.2 Analysis of the Structural Equation Model

The findings revealed that the constructs constituting the modified structural equation model were consistent with the empirical data, demonstrating a correspondence between the former and the latter.

Dr. A. P. Singh

Figure 2. Modified structural equation model of the causal factors influencing the performance of green organizations (GPM) managing energy-saving buildings in Bangkok and vicinity



Table#. Direct effects (DE), indirect effects (IE), and total effects (TE)

	GOC			GCA			GPM		
	DE	IE	TE	DE	IE	TE	DE	IE	TE
EVM	0.269**		0.269**	0.232**	0.063*	0.295**			
	(0.059)		(0.059)	(0.057)	(0.028)	(0.076)			
EVL		0.422**	0.422**	0.240**	0.099*	0.339**			
		(0.070)	(0.070)	(0.088)	(0.040)	(0.084)			
EVI		0.273**	0.273**	0.212**	0.064*	0.276**			
		(0.069)	(0.069)	(0.081)	(0.028)	(0.084)			
GOC				0.234**		0.234**	0.791**		
				(0.088)		(0.088)	(0.069)		
GCA							0.216**		
							(0.074)		
Observe variable	EVM1	EVM2	EVM3	EVM4	EVM5	EVM6	EVM7	EVM8	EVL1
Reliability	0.625	0.641	0.587	0.491	0.407	0.428	0.483	0.429	0.688
Observe variable	EVL2	EVL3	EVL4	EVI1	EVI2	EVI3	EVI4	GOC1	GOC2
Reliability	0.670	0.653	0.636	0.543	0.612	0.595	0.714	0.652	0.574
Observe variable	GOC3	GOC4	GOC5	GOC6	GCA1	GCA2	GCA3	GCA4	GCA5
Reliability	0.579	0.535	0.548	0.555	0.577	0.595	0.559	0.512	0.514
Observe variable	GCA6	GCA7	GCA8	GPM1	GPM2	GPM3	GPM4	GPM5	
Reliability	0.552	0.617	0.652	0.563	0.594	0.550	0.485	0.522	
latent variable		GOC			GCA			GPM	
R²		0.835			0.750			0.808	

$\chi^2 = 453.977$, $df = 452$, $\chi^2/df = 1.004$, $p\text{-value} = 0.456$, $RMSEA = 0.003$, $GFI = 0.946$, $AGFI = 0.925$

Specifically, the χ^2 value equaled 453.977 with the df value of 452, the p-value stood at 0.465, passing the acceptable standard of more than 0.05, and the χ^2/df value was equal to 1.004, passing the acceptable standard of less than 2. Additionally, the goodness of fit index (GFI) value stood at 0.946, passing the acceptable standard of more than 0.9, the adjusted GFI or AGFI value was equal to 0.925, passing the acceptable standard of more

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than 0.9, and the root mean square error of estimation (RMSEA) value of 0.003, passing the acceptable standard of less than 0.05.

2.3 Hypothesis Testing

(1) H1: *Environmental management would have a positive effect on green organizational culture.* From Table 1 and Fig. 2, environmental management had a positive correlation with green organizational culture at the significance level of 0.01 with the path coefficient of 0.269, confirming the first hypothesis.

(2) H2: *Environmental leadership would have a positive effect on green organizational culture.* As shown in Table 1 and Fig. 2, environmental leadership positively correlated with green organizational culture at the significance level of 0.01 with the path coefficient of 0.422, confirming the second hypothesis.

(3) H3: *Environmental innovations would have a positive effect on green organizational culture.* According to Table 1 and Fig. 2, environmental innovations exerted a positive influence on green organizational culture at the significance level of 0.01 with the path coefficient of 0.273, confirming the third hypothesis.

(4) H4: *Environmental management would have a positive effect on the competitive advantage of a green organization.* As illustrated in Table 1 and Figure 2, environmental management had a positive impact on the competitive advantage of a green organization at the significance level of 0.01 with the path coefficient of 0.232, confirming the third hypothesis.

(5) H5: *Environmental leadership would have a positive effect on the competitive advantage of a green organization.* Based on Table 1 and Figure 2, environmental leadership had a positive correlation with the competitive advantage of a green organization at the significance level of 0.01 with the path coefficient of 0.240, confirming the fifth hypothesis.

(6) H6: *Environmental innovations would have a positive effect on the competitive advantage of a green organization.* From Table 1 and Figure 2, environmental innovations positively correlated with the competitive advantage of a green organization at the significance level of 0.01 with the path coefficient of 0.212, confirming the sixth hypothesis.

(7) H7: *Green organizational culture would have a positive effect on the competitive advantage of a green organization.* According to Table 1 and Figure 2, green organizational culture wielded a positive influence on the competitive advantage of a green organization at the significance level of 0.01 with the path coefficient of 0.234, confirming the seventh hypothesis.

(8) H8: *Green organizational culture would have a positive effect on the performance of a green organization.* As displayed in Table 1 and Figure 2, green organizational culture had a positive correlation with the performance of a green organization at the significance level of 0.01 with the path coefficient of 0.791, confirming the eighth hypothesis.

(9) H9: *The competitive advantage of a green organization would have a positive effect on its performance.*

Based on Table 1 and Figure 2, the competitive advantage of a green organization positively affected its performance at the significance level of 0.01 with the path coefficient of 0.216, confirming the ninth hypothesis.

2.4 Summary of the Findings in Relation to the Research Objectives

Factors influencing the performance of green organizations (GPM) managing energy-saving buildings in Bangkok and vicinity:

- Factors relating to environmental management, environmental leadership, and environmental innovations had a positive effect on green organizational culture with the combined predictive power of 83.50%.
- Factors relating to environmental management, environmental leadership, and environmental innovations positively correlated with the competitive advantage of a green organization with the combined predictive power of 75.00%.
- Green organizational culture and competitive advantage exerted a positive influence on the performance of a green organization with the combined predictive power of 80.80%.

The consistency between the constructs of the structural equation model and the empirical data will be studied.

2.5 Discussion

2.5.1 Relationships between environmental management and green organizational culture

The present results confirm Hamdoun and Zouaoui (2017)'s findings that green organizational culture was created from such management factors as employee engagement, organizational values, relationship building,

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and environmental awareness in the context of the Republic of Tunisia. Thus, it may be concluded that organizations with effective environmental management encompassing all aspects of environmental conservation (Küçükoğlu and Pınar 2015) are likely to exhibit continual development of green organizational culture (Molina-Azorin *et al.* 2015).

2.5.2 Relationships between environmental leadership and green organizational culture

The findings presented herein are in agreement with Rasid, Manaf, and Quoquab (2013), which discovered an important role that leadership played in creating organizational culture in the Islamic bank sector of Malaysia, and Ledimo (2014), which indicated a positive correlation between leadership and organizational culture in public service agencies. One possible explanation is that leadership is a powerful determinant of the creation and development of organizational culture (Rasid, Manaf, and Quoquab 2013), as well as the transfer of values and knowledge within an organization (Alesr and Ramzani 2019).

2.5.3 Relationships between environmental management and green organizational culture

The results reported in this study support Hamdoun and Zouaoui (2017)'s findings that operations relating to production and research and development promote green organizational culture. According to Lam (2010), the introduction of innovations involves a process of knowledge sharing; thus, it contributes to the creation of green organizational culture through collective learning, observation of norms and leadership behavior, and socialization. Since organizational culture is a dynamic factor shaped by new assumptions and beliefs (Losane 2013), the correlation between environmental innovations and green organizational culture is undeniable.

2.5.4 Relationships between environmental management and competitive advantage

The present findings concur with Somuyiwa, Mcilt, and Adebayo (2012), which demonstrated that internal organizational management served as a driving force behind the competitive advantage of an organization. As Mahmood, Basharat, and Bashir (2012) stated, management is the most important factor of every organization without which missions, goals, and objectives are impossible to accomplish.

2.5.5 Relationships between environmental leadership and competitive advantage

The results reported herein are in line with Jardon and Martinez-Cobas (2019) findings that leadership would significantly contribute to the competitive advantage of an organization, especially a small one. With regards to this, Fernandez, Junquera, and Ordiz (2003) explain that effective leadership can govern the values, determination, and aspirations of the members of an organization, all of which are fundamental factors behind an organization's progress towards competitive advantage.

2.5.6 Relationships between environmental innovations and competitive advantage

The present findings are in agreement with those of Horbach and Rennings (2013) and Chen (2011), which indicated innovative environmental management processes as contributors to the creativity of organizational members in collectively planning, managing, and implementing measures to prevent and reduce environmental problems. Additional corroborative evidence is Wu and Lin (2016), which demonstrated that the use of environmental innovations in running an organization would help lessen the impacts of its products on the environment throughout their manufacturing and life cycles from the purchase of raw materials and production to consumption and disposal.

2.5.7 Relationships between green organizational culture and competitive advantage

In support of the results presented herein are Hamdoun and Zouaoui (2017)'s findings showing a positive correlation between the creation of organizational culture and the competitive advantage of an organization in terms of lower costs and more distinct brand identity, and Jardon and Martinez-Cobas (2019)'s findings reporting that organizational culture could enable a small organization to achieve competitive advantage. Such findings are highly likely because organizational culture plays an important role in determining an organization's performance, strategic competitiveness, ultimate success or failure (Flamholtz and Randle 2012, Küçükoğlu and Pınar 2015) and sustainable advantage (Hamdoun and Zouaoui 2017). Thus, an organization attaching importance to environmental issues and thus integrating cultural awareness in all its processes will be able to forge a solid identity as an environmentally conscious entity (Hamdoun and Zouaoui 2017).

2.5.8 Relationships between green organizational culture and organizational performance

The results reported in this study correspond with Umrani *et al.* (2017)'s findings that organizational culture significantly correlated with the performance of organizations in the banking industry of the Islamic Republic of Pakistan and Quy (2018)'s findings that organizational culture promoting innovations had a significant positive correlation with organizational performance (cf. (Murphy, Cooke, and Lopez 2013), for similar conclusions). As Umrani *et al.* (2017) note, organizational culture is integral to the way in which an organization operates and devises its strategies to achieve excellence.

2.5.9 Relationships between competitive advantage and organizational performance

Similar findings were reported in Setyawati, Rosiana, and Shariff (2017), which determined that competitive advantage had a positive influence on organizational performance. While Tuan and Yoshi (2010) generally ascribe organizational performance to competitive advantage, Jabbar and Abid (2017) specifically explain that an organization with effective environmental management schemes surpassing those of its counterparts is likely to address environmental issues and, ultimately, outperform them.

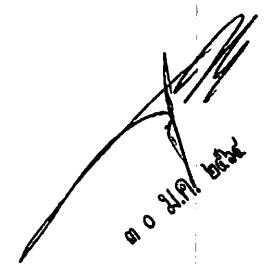
Conclusions

Environmental leadership and environmental innovations had a positive effect on the organizational culture of the green organizations. Also, the environmental management, environmental leadership, environmental innovations, and organizational culture of the green organizations exerted a positive impact on their competitive advantage.

References

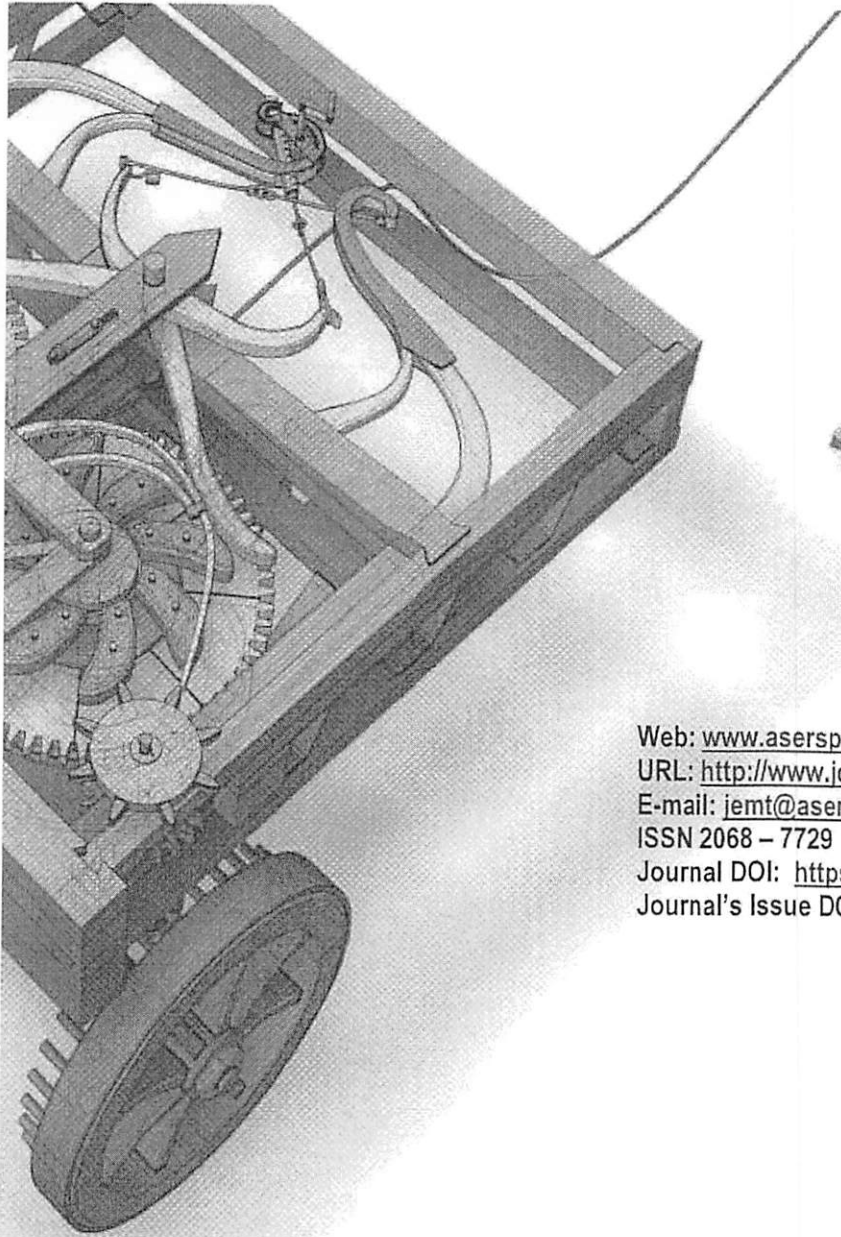
- [1] Alnesr, B., Ramzani, S.R. 2019. The impact of transformational leadership on innovation through the mediating role of knowledge sharing in public and private universities of Syria. *Journal of Business and Management*, 21(2): 76-82. DOI: <https://doi.org/10.9790/487X-2102037682>
- [2] Anantanasuwong, D. 2016. *Teaching document: Unit 13 Thailand and environmental issues*. Bangkok: Sukhothai Thammathirat Open University.
- [3] Baltaci, F., Yirik, Ş. 2015. From the ecocentric and anthropocentric perspectives, a survey of future tourism entrepreneurs' attitudes toward environmental issues: Sample of Akdeniz university. *International Journal of Humanities and Social Science*, 5 (1):139-143.
- [4] Boonyasirinun, L. 2015. Factors influencing business development approach to access environmentally sustainable business in Thailand. *Panyapiwat Journal*, 7 (1):1-10.
- [5] Chen, Y.-S. 2011. Green organizational identity: Sources and consequence. *Management Decision*, 49 (3): 384-404. DOI: <https://doi.org/10.1108/00251741111120761>
- [6] De Marchi, V. 2012. Environmental innovation and R&D cooperation: Empirical evidence from Spanish manufacturing firms. *Research Policy*, 41 (3): 614-623. DOI: <https://doi.org/10.1016/j.respol.2011.10.002>
- [7] Devall, B., Sessions, G. 2001. *Deep ecology: Living as if nature mattered*. Utah: Gibbs Smith
- [8] Fernandez, E., Junquera, B., Ordiz, M. 2003. Organizational culture and human resources in the environmental issue: a review of the literature. *International Journal of Human Resource Management*, 14 (4): 634-656. DOI: <https://doi.org/10.1080/0958519032000057628>
- [9] Flamholtz, E.G., Randle, Y. 2012. Corporate culture, business models, competitive advantage, strategic assets and the bottom line: Theoretical and measurement issues. *Journal of Human Resource Costing and Accounting*, 16 (2): 76-94. DOI: <https://doi.org/10.1108/14013381211284227>
- [10] Hair, J.F., Babin, B.J., Anderson, R.E., Black, W.C. 2019. *Multivariate data analysis*. 8th ed. India: Cengage
- [11] Hamdoun, M., Zouaoui, M. 2017. Impact of environmental management on competitive advantage of Tunisian companies: The mediator role of organizational culture. *International Review of Management and Marketing*, 7(2):76-82.
- [12] Horbach, J., Rennings, K. 2013. Environmental innovation and employment dynamics in different technology fields – An analysis based on the German Community Innovation Survey 2009. *Journal of Cleaner Production*, 57: 158-165. DOI: <https://doi.org/10.1016/j.jclepro.2013.05.034>
- [13] Jabbar, M.H., Abid, M. 2017. GHRM: Motivating Employees towards Organizational Environmental Performance. *MAGNT Research Report*, 2 (4): 267-278. DOI: 14.9831/1444-8939.2014/2-4/MAGNT.34
- [14] Jardon, C.M., Martinez-Cobas, X. 2019. Leadership and organizational culture in the sustainability of subsistence small businesses: An intellectual capital based view. *Sustainability* 11 (12):1-16. DOI:<https://doi.org/10.3390/su11123491>
- [15] Karataş, A. 2016. The role of environmental education in transition from anthropocentrism to ecocentrism. *International Journal of Business and Social Science*, 7 (1): 125-129. DOI: 10.30845/ijbss

- [16] Küçüköğlü, M.T., Pınar, R.İ. 2015. Go green at work: Environmental organizational culture. *Modern Environmental Science and Engineering*, 1 (2): 79-88. DOI: 10.15341/mese(2333-2581)/02.01.2015/004
- [17] Lam, A. 2010. *Innovative organizations: Structure, learning and adaptation, innovation perspectives for the 21st century*. Madrid, Spain: BBVA
- [18] Ledimo, O. 2014. The role of transformational leadership and organizational culture in service delivery within a public service organization. *Journal of Governance and Regulation*, 3 (3): 44-51.
- [19] Losane, L. 2013. Innovation culture – Determinant of firms' sustainability. *World Academy of Science, Engineering and Technology International Journal of Economics and Management Engineering*, 7 (10): 2755-2760. DOI: <https://doi.org/doi.org/10.5281/zenodo.1088492>
- [20] Mahmood, Z., Basharat, M., Bashir, Z. 2012. Review of classical management theories. *International Journal of Social Sciences and Education*, 2 (1): 512-522.
- [21] Molina-Azorin, J.F., Tari, J.J., Pereira-Moliner, J., Logez-Gamero, M.D., Pertusa-Ortega, E.M. 2015. "The effects of quality and environmental management on competitive advantage: A mixed methods study in the hotel industry. *Tourism Management*, 50: 41-54. DOI: <https://doi.org/10.1016/j.tourman.2015.01.008>
- [22] Murphy, P.J., Cooke, R. A., Lopez, Y. 2013. Firm culture and performance: Intensity's effects and limits. *Management Decision*, 51 (3): 661-679. DOI: <https://doi.org/10.1108/00251741311309715>
- [23] Quy, V.T. 2018. Organizational culture and firm performance – A comparative study between local and foreign companies located in Ho Chi Minh City. *International Journal of Scientific Research and Innovative Technology*, 5 (2): 45-53.
- [24] Rasid, S.Z., Manaf, M.A., Quoquab, F. 2013. Leadership and organizational commitment in the Islamic banking context: The role of organizational culture as a mediator. *American Journal of Economics*, 3 (5C): 171-176.
- [25] Schoenherr, T., Talluri, S. 2013. Environmental sustainability initiatives: A comparative analysis of plant efficiencies in Europe and the U.S. *IEEE Transactions on Engineering Management*, 60 (2): 353-365. DOI: <https://doi.org/10.1109/TEM.2012.2198653>
- [26] Setyawati, S.M., Rosiana, M., Shariff, M.N.M. 2017. Competitive advantage as mediating variable on the relationship between innovation and business performance on SMES in Purwokerto province. *Saudi Journal of Business and Management Studies*, 2 (7): 693-699. DOI: <https://doi.org/10.21276/sjbms>
- [27] Somuyiwa, A., Mclit, M., Adebayo, T. 2012. Firm's competitiveness through supply chain responsiveness and supply chain management practices in Nigeria. *British Journal of Arts and Social Sciences*, 10 (1): 42-52.
- [28] Srisai, S. 2014. Green organization development. *Journal of Public Health*, 44 (3): 219-222.
- [29] Tuan, N.P., Yoshi, T. 2010. Organisational capabilities, competitive advantage and performance in supporting industries in Vietnam. *Asian Academy of Management Journal*, 15 (1): 1-21.
- [30] Umrani, W.A., Shah, S.M.M., Memon, P.A., Samo, A.H. 2017. Organizational culture and business performance: An empirical investigation in the Pakistani context. *International Journal of Academic Research in Economics and Management Sciences*, 6 (1): 93-107. DOI: <http://dx.doi.org/10.6007/IJAREMS/v6-i1/2575>
- [31] Wu, S.I., Lin, S.R. 2016. The effect of green marketing strategy on business performance: a study of organic farms in Taiwan. *Total Quality Management & Business Excellence*, 27(1-2): 141-156. DOI: <https://doi.org/10.1080/14783363.2014.959256>
- [32] Office of Natural Resources and Environmental Policy and Planning. 2017. Environmental quality situation report 2017. Available at: <http://www.onep.go.th/ebook/soe/soereport2017.pdf>



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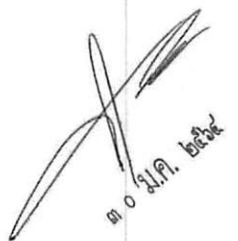
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ISSN 2068 – 7729

Journal DOI: <https://doi.org/10.14505/jemt>

Journal's Issue DOI: [https://doi.org/10.14505/jemt.v11.7\(47\).00](https://doi.org/10.14505/jemt.v11.7(47).00)


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