

MARITIME GREEN SUPPLY CHAIN MANAGEMENT
(MGSCM) AND FINANCIAL PERFORMANCE: A
MEDIATING EFFECT OF ENERGY EFFICIENCY
AND LOW CARBON PERFORMANCE

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I hereby declare that I have checked this thesis and, in my opinion, this thesis is adequate in terms of scope and quality for the award of the degree of Doctor of Philosophy.

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I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

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ABSTRAK

Atas kesedaran mengenai kesan negatif ekologi meningkat dikalangan industri, organisasi di seluruh dunia telah termotivasi untuk mewujudkan operasi yang lebih mampan. Ini telah menyebabkan perkembangan minat yang luas dalam bidang pengurusan rantaian bekalan (SCM) dan pengurusan rantaian bekalan hijau (GSCM) di kalangan sarjana dan pengamal industri sejak kebelakangan ini disebabkan isu-isu alam sekitar, kemerosotan bahan mentah dan pengeluaran sisa yang berlebihan. Walau bagaimanapun, kerja yang dilakukan dalam membangun dan menggabungkan langkah-langkah hijau ke dalam kesusasteraan rantaian bekalan maritim sedia ada agak terhad. Hanya beberapa artikel yang telah diterbitkan dalam literasi dekad yang lalu mengenai konsep hijau dalam konteks maritim. Matlamat utama dalam kajian ini adalah untuk menangani cabaran ini secara empirikal dan menguji langkah-langkah dan prestasi pengurusan rantaian bekalan maritim hijau (MGSCM) dalam konteks rantaian bekalan maritim. Berdasarkan tinjauan literasi, lapan soalan penyelidikan telah dicadangkan untuk menangani jurang semasa dalam bidang ini. Oleh itu, kajian ini telah mencadangkan 5 pembolehubah MGSCM dan 3 pembolehubah prestasi yang boleh digunakan oleh organisasi untuk mengukur kesan MGSCM terhadap organisasi maritim. Walau bagaimanapun, 2 daripada tiga pembolehubah prestasi yang terdiri daripada prestasi kecekapan tenaga (EEP) dan prestasi karbon rendah (LCP) akan bertindak sebagai pemboleh ubah pengantara untuk mengkaji hubungan antara MGSCM dan prestasi kewangan (FP). Satu kaji selidik dalam talian telah dihantar kepada pelbagai syarikat rantaian bekalan maritim di Malaysia. 160 set soal selidik dianalisis dengan menggunakan kaedah kuadrat separa terendah (PLS) melalui pemodelan persamaan struktur (SEM) dengan perisian Smart PLS dan perisian IBMSPSS untuk analisis deskriptif. Penemuan itu mengesahkan bahawa dari perspektif rantaian bekalan maritim, beberapa amalan MGSCM tertentu (seperti GICS dan GSIP) memang mempengaruhi hasil prestasi kewangan. Hasil kajian juga menunjukkan sokongan kepada hipotesis bahawa EEP dan LCP memediasi kesan diantara GICS, GVALS, dan SDC terhadap prestasi kewangan. Hasil kajian ini juga membuktikan keberkesanan rangka kerja yang dicadangkan berdasarkan teori NRBV dan GSCM dalam memahami impak lestari dari perspektif rantaian bekalan maritim. Akhirnya, kajian ini telah membentangkan cadangan praktikal untuk para pengamal industri dan pembuat polisi yang menekankan perlunya mengamalkan amalan hijau dalam rantaian bekalan maritim untuk mencapai operasi mampan dan keuntungan berpanjangan.

ABSTRACT

As awareness and consciousness regarding the negative ecological impacts that industry bring to the environment increases, more organizations around the globe have motivated in establishing sustainable operations. As a result, a cross-disciplinary interest in the field of supply chain management (SCM) and green supply chain management (GSCM) has grown amongst scholars and practitioners in recent years due to environmental issues, deteriorating raw materials and excess of waste production. However, there has been little work done in developing and incorporating green measures into the existing maritime supply chain literature. Only a handful of articles has been published in the last decade on the green concept in maritime context literature. The aim of this study is thus, to address this challenge by empirically developing and testing maritime green supply chain management (MGSCM) measures and performance for the maritime supply chain. Based on an extensive literature review, eight research questions were proposed for this study to address current gaps in the body of knowledge. Hence, this study has proposed five (5) MGSCM variables and three (3) performance constructs that can be used by organizations to measure MGSCM impact on the maritime organization. However, two (2) out of three (3) constructs which consists energy efficiency performance (EEP) and low carbon performance (LCP) will act as mediating variables to study inter-relationship that might be influenced the single performance outcome construct of financial performance (FP). An online survey was administrated to various maritime supply chain companies in Malaysia. One hundred sixty (160) sets of questionnaires were analysed using the partial least squares method through structural equation modelling (SEM) with Smart PLS software and IBMSPSS software for descriptive analysis. The findings confirmed that from the maritime supply chain perspective, certain MGSCM practices (such as GICS and GSIP) facilitated financial performance outcome. The results also showed support for the hypotheses that EEP and LCP mediate the effect of GICS, GVALS, and SDC on financial performance. To a certain extent, the findings of the study validated the robustness of the MGSCM framework based on the extended natural resource-based view (NRBV) and GSCM theory to study the sustainability impact from maritime supply chain perspective. Finally, this study has presented a practical suggestion for practitioners and policymakers which highlighted a need to adopt green practices in the supply chain operation to achieve sustainable operation and long-term competitive advantage.

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LIST OF ABBREVIATION

AFS	International Convention on the Control of Harmful Anti-Fouling Systems on Ship
AGV	Automated Guided Vehicle
AMP	Alternative Marine Power
AMS	Auto Monitoring Systems
APEC	Asia- Pacific Economic Cooperation
APSN	APEC Port Services Network
AVE	Average variance extracted
BMW	International Convention for the Control and Management of Ships' Ballast Water and Sediments
CB-SEM	Covariance-based structural equation modelling
COLREG	International Regulations for Preventing Collisions at Sea
COP 15	United Nations Conference of Parties on Climate Change
CR	Composite reliability
CSR	Corporate social responsibility
EBIT	Earnings before Interest and Taxes
EDI	Electronic data Interchange
EEDI	Energy Efficiency Design Index
EEP	Energy efficiency performance
EMAS	Eco- management scheme and audit scheme
EMS	Environmental Management System
EnMS	Energy Management System Certification
EPA	Environmental Protection Agency
EPI	Environmental Performance Index
ETP	Economic Transformation Program
EUMCCI	EU-Malaysia Chamber of Commerce and Industry
FDI	Foreign Direct Investment
FMM	Federation of Malaysian Manufacturers
FP	Financial performance
GFF	Green financial flow

GHG	Greenhouse gas
GICS	Green information and communication system
GMP	Green management practices
GPAS	Green Port Award System
GPR	Greening and performance relativity
GPS	Global Positioning Systems
GSCM	Green supply chain management
GSIP	Green supply chain integration practice
GSM	Green shipping management
GSP	Green shipping practices
GT	Green technology
GTP	Government Transformation Programme
GVALS	Green value added logistic service
HTMT	Heterotrait-monotrait
IMO	International Maritime Organization
IPCC	Intergovernmental Panel on Climate Change
ISM	International Safety Management
IT	Information technology
JIT	Just-in-time
LCA	Life-cycle costing analysis
LCP	Low carbon performance
MARDEP	Marine Department of Malaysia
MARPOL	The International Convention for the Prevention of Pollution from Ships
MATRADE	Malaysia External Trade Development Corporation
MGSCM	Maritime green supply chain management
MIDA	Malaysian Investment Development Authority
MLSP	Maritime Logistic Service Provider
NPE	National Policy on the Environment
NRBV	Natural resource-based view
OPRC	Oil Pollution Preparedness, Response, and Co-operation
PERS	Port environmental review system

PLS-SEM	Partial least squares structural equation modelling
PM	Particulate matter
RBV	Resource-based view
RFID	Radio Frequency Identification
ROA	Return-On-Assets
ROCE	Return-On-Capital-Employed
ROI	Return-On-Investment
SCM	Supply chain management
SDC	Shipping design and compliance
SDM	Self-diagnosis
SEEMP	Ship Energy Efficient Management Plan
SEEOI	Ship Energy Efficiency Operational Indicator
SEM	Structural equation modelling
SMSC	Sustainable maritime supply chain
SOLAS	International Convention for the Safety of Life at Sea
SOSEA	Strategic overview of environmental aspects
STCW	International Convention for Standards, Training, Certification and Watchkeeping for Seafarers
TEU	Twenty-Foot Equivalent Unit
UN	United Nation
UNCTAD	United Nations Conference on Trade and Development
UNFCCC	United Nations Framework Convention on Climate Change
VIF	Variance inflation factors
WEF	World Economic Forum

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