

Green Logistics And Transportation A Sustainable Supply Chain Perspective Greening Of Industry Networks Studies

Seminar paper from the year 2014 in the subject Business economics - Supply, Production, Logistics, grade: A, Heriot-Watt University Edinburgh, course: Green Logistics, language: English, abstract: This assignment reviews the literature of RL. In order to structure the research, the following research questions were developed: • Which activities are covered by RL and what differentiates it from forward logistics (FL)? • What are the drivers and benefits for companies implementing RL operations? • What are the impacts of RL on the SC and how does it contribute to green the SC? The motivation for conducting this research has several origins. Firstly, the research on RL is limited. Secondly, businesses are increasingly confronted with a throw-away mentality of the society. This makes a modification in the behaviour towards the environment necessary (Cherrett et al. 2012). In order to study the development and impact of RL, this assignment reviews a large variety of literature mainly in different trade publications, journals and books.

Master's Thesis from the year 2011 in the subject Business economics - Supply, Production, Logistics, grade: Distinction / 78%, University of Westminster, course: Logistics and Supply Chain Management, language: English, abstract: The logistics sector is growing rapidly. Freight transport has increased by 31 per cent between 1995 and 2005. As the volume of world trade rises, the European Commission predicts a further 50 per cent increase by 2020. But the logistics sector faces a number of challenges. Besides globalisation, means supply chains have become longer and more complex, increasing traffic congestion and soaring fuel prices, the logistics industry faces public and state environmental concerns, such as air and water pollution, energy consumption or waste disposal. Studies show that transportation and logistics can account for up to 75 per cent of a business's carbon footprint. National governments and the European Union have therefore introduced a number of measures to 'green' transport and in order to reduce greenhouse gas emissions. Policy-makers and their policies and regulations on sustainable logistics are assumed to play a critical role in the future development of sustainable logistics. The key research questions are Q1: How do 3PL companies see their current corporate activity in terms of sustainable logistics dependent on governmental policies and regulations? Q2: To what extent do 3PL firms think that governmental policies and regulations are necessary in order to shift the industry towards more sustainability? Q3: How do 3PLs assess the role of subcontractors on this topic and how will the logistics market be influenced by policies on sustainable logistics? The selection of the sampling is based on the exploratory sample which helps to generate deep insights into new ideas and people's expertise. In total, five logistics experts were questioned through telephone and face-to-face semi-structured interviews. All experts work in different leadin

Logistic companies worldwide are facing new challenges in the next decade. Some important challenges and trends of environmental friendly operations in maritime logistics are outlined. The general trends entail, among others, the reduction of CO₂/SO_x/NO_x, the design of more ecological shipping vessels, protect and enhance

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human health, recycle, re-use and remanufacture etc. A sustainable supply chain donate sustainable development by simultaneously delivering economic, social and environmental benefits – or what has been termed “ the triple bottom line”. A large number of firms have reconfigured their sustainable supply chains to enhance end-customer value and competitive advantage. Implications caused by maritime sector or shipping companies are discussed and illustrated by some examples. A framework of “A.P. Moeller-Maersk environmental strategies” gives a brief insight into those evolutionary logistics operations which propose to reduce the impact of logistical activities. These are new technologies, new policies, new practices and environmental management system.

This book presents recent work that analyzes general issues of green logistics and smart cities. The contributed chapters consider operating models with important ecological, economic, and social objectives. The content will be valuable for researchers and postgraduate students in computer science, information technology, industrial engineering, and applied mathematics.

Global logistics entails tradeoffs in facility location, distribution networks, the routing and scheduling of deliveries by different modes of travel (e.g., air, water, truck, rail), procurement, and the overall management of international supply chains. In an increasingly global economy, then, logistics has become a very important matter in the success or failure of an organization. It is an integral part of supply chain management that involves not just operations management considerations, but production engineering and regional science issues as well. As Director of the prestigious Waterloo Management of Integrated Manufacturing Systems Research Group (WATMIMS), which specializes in logistics and manufacturing, Jim Bookbinder is uniquely qualified to edit a handbook on global logistics. He has aligned a set of prominent contributors for this volume. The chapters in the Handbook are organized into discrete sections that examine modes; logistics in particular countries; operations within a free-trade zone; innovative features impacting international logistics; case studies of specific companies; and a look toward the future. Contributors are from the Americas, Europe, and Asia, and they push the state of the art in areas such as trade vs. security; border issues; cabotage within NAFTA; Green logistics corridors within the EU; inland ports; direct-to-store considerations; and all the questions that need to be confronted in any given region. This will certainly appeal to researchers and practitioners alike, and could serve as required or supplementary reading in graduate-level logistics courses as well.

Stuart Emmett and Vivek Sood's book provides a clear strategic overview and actionable plan for the implementation of green supply chains. For anyone grappling with the elements required to change an organization's supply chain strategy in a 'green' direction, this book is a must read. "Having worked with Stuart Emmett on other ground breaking books, I can empathically say that this book written with Vivek Sood is another one in the same mould. This enjoyable book not only covers a topic that is critically relevant for every individual, but also provides a practical road map for a green supply chain strategy. Strongly recommended, it is a book of it time." —Barry Crocker, Author and MSC Program Leader, University of Salford "After co-creating the supply chain management methodology in 1979, I have remained at the forefront of this field for the last 30 years by continually pushing the boundaries of thoughts and applications in Supply Chain Management. But, during all this time, nothing has excited me as much

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as our current endeavor on Green Supply Chains. It is the need of the moment, resonating in all directions. What is more important, it makes perfect commercial sense. This book by Vivek Sood and Stuart Emmett is a big step in furthering that discussion. It should be on the bookshelf of every progressive manager." —Dr Wolfgang Partsch, Global Supply Chain Group, Munich, Germany "...As supply chains have become more visible to people around the world, and at the same time more global, questions about their impact on the environment and global sustainability have increased. People who care about our Planet often wonder what are the adverse impacts of transporting goods thousands of miles...goods that are often produced in manufacturing plants that are not environmentally friendly...and then packaged in what becomes waste. So, companies and governments worldwide have begun to address the questions. The authors have addressed the questions in an insightful manner. They have analyzed the supply chain processes, presented new ideas, and have backed these up with solid case examples from leading companies. The book is a must read for anyone who manages a supply chain, cares about the environment, and seeks actionable ideas for 'going green'."

—Gene Tyndall, Executive Vice President, Global Tompkins International "This book treats the 'Next Generation' Supply Chain in a phenomenal way. It is an emerging topic, a paradigm shifting approach for companies on their radical cost saving waves, and an absolutely necessary component of the sustainability for our Planet." —Ahmet Yalçın Managing Partner at Stars of Europe and Chairman of the Board of the German Solar Energy company Green Enesys Group

This book examines the state of the art in green transportation logistics from the perspective of balancing environmental performance in the transportation supply chain while also satisfying traditional economic performance criteria. Part of the book is drawn from the recently completed European Union project Super Green, a three-year project intended to promote the development of European freight corridors in an environmentally friendly manner. Additional chapters cover both the methodological base and the application context of green transportation logistics. Individual chapters look at the policy context; the basics of transportation emissions; Green Corridors basics; the concept of TEN-T (Trans-European Network); Benchmarking of green corridors; the potential role of ICT (Information and Communication Technologies); Green vehicle routing; Reducing maritime CO₂ emissions via market based measures and speed and route optimization; Sulphur emissions; Lifecycle emissions; Green rail transportation; Green air transportation; Green inland navigation and possible areas for further research. Throughout, the book pursues the goal of "win-win" solutions and analyzes the phenomenon of "push-down, pop-up", wherein a change in one aspect of a problem can cause another troubling aspect to arise. For example, speed reduction in maritime transportation can reduce emissions and fuel costs, but could require additional ships and could raise in-transit inventory costs. Or, regulations to reduce sulphur emissions may ultimately increase CO₂ elsewhere in the supply chain. The book takes stock at the various tradeoffs that are at stake in the goal of greening the supply chain and looks at where balances can be struck.

The issue of sustainability has become a vital discussion in many industries within the public and private sectors. In the business realm, incorporating such practices allows organizations to re-design their operations more effectively. Green Supply Chain Management for Sustainable Business Practice examines the challenges and benefits

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of implementing sustainability into the core functions of contemporary enterprises, focusing on how green approaches improve operations in an ecological way.

Highlighting key concepts, emerging innovations, and future directions, this book is a pivotal reference source for professionals, managers, educators, and upper-level students.

Supply chain management has long been a feature of industry and commerce but, with increasing demands from consumers, producers are spending more time and money investing in ways to make supply chains more sustainable. This exemplary Handbook provides readers with a comprehensive overview of current research on sustainable supply chain management. Logistics Transportation Systems compiles multiple topics on transportation logistics systems from both qualitative and quantitative perspectives, providing detailed examples of real-world logistics workflows. It explores the key concepts and problem-solving techniques required by researchers and logistics professionals to effectively manage the continued expansion of logistics transportation systems, which is expected to reach an estimated 25 billion tons in the United States alone by 2045. This book provides an ample understanding of logistics transportation systems, including basic concepts, in-depth modeling analysis, and network analysis for researchers and practitioners. In addition, it covers policy issues related to transportation logistics, such as security, rules and regulations, and emerging issues including reshoring. This book is an ideal guide for academic researchers and both undergraduate and graduate students in transportation modeling, supply chains, planning, and systems. It is also useful to transportation practitioners involved in planning, feasibility studies, consultation and policy for transportation systems, logistics, and infrastructure. Provides real-world examples of logistics systems solutions for multiple transportation modes, including seaports, rail, barge, road, pipelines, and airports Covers a wide range of business aspects, including customer service, cost, and decision analysis Features key-term definitions, concept overviews, discussions, and analytical problem-solving

Focused on the logistics and transportation operations within a supply chain, this book brings together the latest models, algorithms, and optimization possibilities. Logistics and transportation problems are examined within a sustainability perspective to offer a comprehensive assessment of environmental, social, ethical, and economic performance measures. Featured models, techniques, and algorithms may be used to construct policies on alternative transportation modes and technologies, green logistics, and incentives by the incorporation of environmental, economic, and social measures. Researchers, professionals, and graduate students in urban regional planning, logistics, transport systems, optimization, supply chain management, business administration, information science, mathematics, and industrial and systems engineering will find the real life and interdisciplinary issues presented in this book informative and useful.

This book outlines the scope of sustainability and green practice in supply chain operations, which has continued to grow with a rapid speed. The book includes core aspects of sustainability and green supply chain management philosophy and practice, covering general concepts, principles, strategies and best practices, which not only protect socio-environmental sustainability, but spur economic growth. The book will aid practitioners in using sustainable supply chains to reduce cost and improve service, as well as keep up-to-date with different features of green supply chains and logistics in a global market. The book will also be a valuable resource for candidates undertaking certification examinations and students studying for degrees in related fields of sustainability and green supply chain management.

The tactical organization of resources is a vital component to any industry in modern society. Effectively managing the flow of materials through various networks ensures that the requirements of customers are met. Sustainable Logistics and Strategic Transportation Planning is a pivotal reference source for the latest research on the management of logistics

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through the lens of sustainability, as well as for emerging procedures that are particularly critical to the transportation sector. Highlighting international perspectives, conceptual frameworks, and targeted investigations, this book is ideally designed for policy makers, professionals, researchers, and upper-level students interested in logistics and transport systems.

Solving Transport Problems establishes fundamental points and good practice in resolving matters regarding green transportation. This is to prompt further research in conveyance issues by providing readers with new knowledge and grounds for integrated models and solution methods. Focusing on green transportation, this book covers various sub-topics and thus consists of diverse content. Traditionally, academia and transport practitioners have mainly concentrated on efficient fleet management to achieve economic benefits and better-quality service. More recently, due to growing public environmental concerns and the industry understanding of the issue, the academic community has started to address environmental issues. The studies of green transportation compiled in this book have identified certain areas of interest, such as references, viewpoints, algorithms and ideas. Solving Transport Problems is for researchers, environmental decision-makers and other concerned parties, to start discussion on developing optimized technology and alternative fuel-based integrated models for environmentally cleaner transport systems.

Today, one of the top priorities of an organization's modern corporate strategy is to portray itself as socially responsible and environmentally sustainable. As a focal point of sustainability initiatives, green supply chain management has emerged as a key strategy that can provide competitive advantages with significant parallel gains for company profitability. In designing a green supply chain, the intent is the adoption of comprehensive and cross-business sustainability principles, from the product conception stage to the end-of-life stage. In this context, green initiatives relate to tangible and intangible corporate benefits. Sustainability reports from numerous companies reveal that greening their supply chains has helped reduce operating cost, thus boosting effectiveness and efficiency while increasing sustainability of the business. Green Supply Chain Management provides a strategic overview of sustainable supply chain management, shedding light on the theoretical background and key principles of the topic. Specifically, this book covers various thematic areas including benefits and impact of green supply chain management; enablers and barriers on supply chain operations; inbound and outbound logistics considerations; and production, packaging and reverse logistics under the notion of "greening". The ultimate aim of this textbook is to highlight the challenges in the implementation of green supply chain management in modern companies and to provide a roadmap for decision-making in real-life cases. Combining chapter summaries and discussion questions, this book provides an accessible and student-friendly introduction to green supply change management and will be of great interest to students, scholars and practitioners in the fields of sustainable business and supply chain management.

The integration of eco-friendly aspects, tools and solutions into a conventional supply chain leads to environmentally friendly global processes in the manufacturing and service industry. This book offers a selection of chapters that explain the impact of green supply chain solutions on value-making chains. The aim of this book is to help students at all levels as well as managers and researchers to understand and appreciate the concept, design and implementation of green supply chain solutions in the Industry 4.0 era.

This book will bring a state of the art overview of the research done in sustainable logistics. It will be structured along the four A's of sustainable logistics: awareness, avoidance, acting and shifting goods, and anticipation of new technologies.

Green Logistics and Transportation A Sustainable Supply Chain Perspective Springer
We look at green supply chain management from the vantage point of the triple bottom

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line: environmental, economic, and social. There are many sustainability decisions that can be made on which we have an incredible impact. Usually, managers have the opportunity to make decisions in five areas of the supply chain: plan, source, make, deliver, and return. Nowadays, consumers care more about where and how the products are produced and delivered, what they are made of, and who made them. Regulatory bodies are continuously creating pressure on firms to adopt eco-friendly practices in their businesses for better environmental sustainability. As a result, firms have just two choices: to adopt green and/or eco-friendly practices in their supply chain operations to fulfill their customers' and regulatory bodies' requirement or not to adopt green practices and lose their business position and potential customers.

This book identifies and furthers the state of the art in green logistics and transportation with a supply chain focus. It includes discussions on concerns and linkages across policy, corporate strategy and operations and inter-organizational relationships and practices. Separate sections are assigned to discuss issues related to greening of logistics and transportation functions, including green logistics network, green land transportation and green air and water transportation. Linking research with practice is another important feature of the book as various techniques and research methodologies are utilized to explain and analyze green logistics and transportation concepts and issues. The authors come from throughout the world from a variety of backgrounds (e.g. policy, technical, engineering, and management backgrounds) to provide solutions and insights from their regional and global perspectives to some of the world's most critical green logistics and transportation issues.

As concern for the environment rises, companies must take more account of the external costs of logistics associated mainly with climate change, air pollution, noise, vibration and accidents. Green Logistics analyzes the environmental consequences of logistics and how to deal with them. Written by a leading team of logistics academics, the book examines ways of reducing these externalities and achieving a more sustainable balance between economic, environmental and social objectives. It examines key areas in this important subject including: carbon auditing of supply chains; transferring freight to greener transport modes; reducing the environmental impact of warehousing; improving fuel efficiency in freight transport; reverse logistics for the management of waste. The new edition is completely updated throughout with new methodologies and case studies to illustrate the impact of green logistics in practice. Sustainable Transportation and Smart Logistics: Decision-Making Models and Solutions provides deterministic and probabilistic models for transportation logistics problem-solving and decision-making. The book presents an overview of the intersections between sustainability, transportation, and logistics, and delves into the current problems associated with the implementation of sustainable transportation and smart logistics in urban settings. It also offers models for addressing complex structural problems and procedures for estimating transportation externalities such as environmental and social impacts, both in industrial and government arenas, as well as decision-making models from operational, tactical, and strategic management perspectives. Sustainable Transportation and Smart Logistics also covers best practices for practical corporate policy implementation, making it a comprehensive and vital resource for researchers, graduate students, practitioners, and policy makers in transportation, logistics, urban planning, economics, engineering, and environmental

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science. Examines various modes of transportation Includes mathematical models for decision-making in a wide variety of situations Presents public transportation and smart cities use cases

This book presents the latest technologies and operational methods available to support sustainable freight transport practices. It highlights market requirements, cutting edge applications, and case studies from innovators in the logistics services industry. The goal is to help bridge the gap between advanced computational techniques and complex applied problems such as those in sustainable transport and logistics operations. Freight transport has traditionally focused on costs and service levels. However, it is no longer possible or socially responsible to neglect the environmental, social, climate, and energy implications of the freight moving globally. This book places sustainability at the forefront of the freight transport agenda. Sustainable Freight Transport: Theory, Models and Case Studies is divided into three sections. Section I focuses on green freight transport policies for air and marine ports. Section II is devoted to using modelling techniques and optimization for achieving sustainable freight transport, while Section III examines policies to support sustainable freight transport practices in urban areas. The contributions come from authors from different areas, backgrounds, and countries to cover a global perspective.

This handbook includes three parts, corresponding to the following three domains of OR/MS research related to sustainability: (i) Systems Design, Innovation, and Technology, (ii) Manufacturing, Logistics, and Transportation, and (iii) Sustainable Natural Resource Management. The first part of the handbook (Chapters 2-6) will focus on the creation and development of sustainable products, services, value chains, and organizations from a systems perspective. Key areas to be covered include Green Design & Innovation, Technology and Engineering Management, Sustainable Value Chain Systems, Sustainability Standards and Performance Evaluation, and Circular Economy and New Research Directions in Sustainability. The second part of the handbook (Chapters 7-11) will concentrate on the major operational and logistic issues faced by today's industries in pursuing sustainability. Key areas to be covered include Remanufacturing, Reverse Logistics, Closed-Loop Supply Chains, Sustainable Transportation, and New Research Directions in Green Supply Chain Management. The third part of the proposed handbook (Chapters 12-16) will center on major sustainability issues in managing engineering infrastructure and natural resources. Key areas to be covered include Renewable Energy, Sustainable Water Resource, Biofuel Infrastructure, Natural Gas, and New Research Direction in Sustainable Resource Management. The handbook aims to bridge the three main OR/MS research domains in sustainability: "Systems Design, Innovation, and Technology," "Manufacturing, Logistics, and Transportation," and "Sustainable Natural Resource Management." Traditionally, these domains are treated separately in the OR/MS literature. By combining the three domains, the handbook will provide a more holistic treatment of MS/OR methodologies to address critical sustainability issues faced by today's society. Unlike most existing handbooks which only focus on current OR/MS research in sustainability within a domain, this handbook will include a concluding chapter in each of the three parts to discuss and identify potential future research directions in each of the three main domains.

The main objective of logistics is to co-ordinate the movement of products through the

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supply chain in a way that meets customer requirements at minimum cost. In the past this cost has been defined in purely monetary terms. As concern for the environment rises, companies must take more account of the external costs of logistics associated mainly with climate change, air pollution, noise, vibration and accidents. Green Logistics analyses the environmental consequences of logistics and how to deal with them. Written by a leading team of logistics academics, the book examines ways of reducing these externalities and achieving a more sustainable balance between economic, environmental and social objectives.

Seminar paper from the year 2014 in the subject Business economics - Supply, Production, Logistics, grade: 1,0, University of the Americas Puebla, language: English, abstract: This project examines different aspects about Green Logistics. First of all the project's topic is defined to receive a first impression what it is about. This is followed by the drivers of Green Logistics and its paradoxes. Afterwards the environmental issue and the measures of Green Logistics are explained. Furthermore the subject of Green IT Solutions is pointed out. As last aspect there is an example of the use of Green Logistics of the company DHL. To complete the project in the conclusion there are some challenges described that Green Logistics may have to face.

International shipping is currently at a crossroads. The decision of the International Maritime Organization (IMO) in April 2018 to adopt an Initial Strategy so as to achieve by 2050 a reduction of at least 50% in maritime greenhouse gas (GHG) emissions vis-à-vis 2008 levels epitomizes the last among a series of recent developments as regards sustainable shipping. It also sets the scene on what may happen in the future. Even though many experts and industry circles believe that the IMO decision is in line with the COP21 climate change agreement in Paris in 2015, others disagree, either on the ground that the target is not ambitious enough, or on the ground that no clear pathway to reach the target is currently visible. This book takes a cross-disciplinary view of the various dimensions of the maritime transportation sustainability problem. "Cross-disciplinary" means that a variety of angles are used to examine the book topics, and these mainly include the technological angle, the economics angle, the logistics angle, and the environmental angle. The book reviews models that can be used to evaluate decisions, policy alternatives and trade-offs. For sustainable shipping, a spectrum of technical, logistics-based and market based measures are being contemplated. All may have important side-effects as regards the economics and logistics of the maritime supply chain, including ports and hinterland connections. The objective to attain an acceptable environmental performance, while at the same time respecting traditional economic performance criteria so that shipping remains viable, is and is likely to be a central goal for both industry and policy-makers in the years ahead. At the same time, policy fragmentation is likely to create distortions of competition and sub-optimal solutions. This book attempts to address these issues and identify better solutions.

Sustainable Shipping: A Cross-Disciplinary View includes chapters that cover many relevant topics. These include a general view of maritime transport sustainability, green ship technologies, information and communication technologies (ICTs) for sustainable shipping, green tramp ship routing and scheduling, green liner network design and speed optimization. Market based measures, oil pollution, ship recycling, sulphur emissions, ballast water management, alternative fuels and green ports are also covered. The book concludes by discussing prospects for the future, with a focus on the

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IMO Initial Strategy. "This book contains a unique wealth of information on sustainable shipping. The knowledge it provides is rigorous, complete, and well supported by statistics, technical reports, and scientific references. The treatment of the various topics is not only informative but also analytical and critical." —Gilbert Laporte, *Maritime Economics & Logistics* (12 May, 2020)

An interdisciplinary framework for managing sustainable agrifood supply chains *Supply Chain Management for Sustainable Food Networks* provides an up-to-date and interdisciplinary framework for designing and operating sustainable supply chains for agri-food products. Focus is given to decision-making procedures and methodologies enabling policy-makers, managers and practitioners to design and manage effectively sustainable agrifood supply chain networks. Authored by high profile researchers with global expertise in designing and operating sustainable supply chains in the agri-food industry, this book: Features the entire hierarchical decision-making process for managing sustainable agrifood supply chains. Covers knowledge-based farming, management of agricultural wastes, sustainability, green supply chain network design, safety, security and traceability, IT in agrifood supply chains, carbon footprint management, quality management, risk management and policy-making. Explores green supply chain management, sustainable knowledge-based farming, corporate social responsibility, environmental management and emerging trends in agri-food retail supply chain operations. Examines sustainable practices that are unique for agriculture as well as practices that already have been implemented in other industrial sectors such as green logistics and Corporate Social Responsibility (CSR). *Supply Chain Management for Sustainable Food Networks* provides a useful resource for researchers, practitioners, policy-makers, regulators and C-level executives that deal with strategic decision-making. Post-graduate students in the field of agriculture sciences, engineering, operations management, logistics and supply chain management will also benefit from this book.

Proceedings of China Modern Logistics Engineering covers nearly all areas of logistics engineering technology, focusing on the latest findings and the following theoretical aspects: Logistics Systems and Management Research; Green Logistics and Emergency Logistics; Enterprise Logistics; Material Handling; Warehousing Technology Research; Supply Chain Management; Logistics Equipment; Logistics Packaging Technology; Third-party Logistics, etc. The book will help readers to grasp the relevant aspects of the theory involved, research and development trends, while also offering guidance for their work and related studies. It is intended for researchers, scholars and graduate students in logistics management, logistics engineering, transportation, business administration, E-commerce and industrial engineering.

Concerning to the global warming issue, green logistics has become a new trend in supply chain management. Green logistics is defined as a reduction of environmental damage by using advanced knowledge of logistics to make full use of available resources, and put into effect on green purchase, green package, green transportation, green warehouse, green design, distribution processing and others activities of logistics. This study interviewed with managers from five logistics companies in Taiwan to investigate their implementation of green logistics. The findings of this study are summarized as follows: 1. All the interviewees expressed their clear conscience about green logistics. 2. Many companies faced difficulties when implementing green logistics

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operations, especially concerning to the cost factor. 3. Although it is hard to justify the financial results of green logistics activities, they all agreed that green logistic will bring positive images of the company in the market. 4. Comparing to global famous logistics companies, Taiwanese companies can enhance their contributions to green activities through more formal training and establishing SOP in this regard. Finally, the management implications and future research suggestions are discussed..

This book gathers together invited presentations from the 12th International Congress on Logistics and SCM Systems (ICLS2017) held in Beijing, China, August 20–23, 2017. The focus of the ICLS2017 was environmental sustainability in logistics and supply chains, particularly in the Asia-Pacific region. It addressed a variety of themes in the domains of green logistics and supply chain management (SCM), including green logistics and environmental impact, green SCM and business performance, green operations and optimization, supply chain sustainability, carbon management in logistics, and green SCM and corporate social responsibility (CSR). The editors selected high-quality presentations from the highly successful symposium, and invited the presenters to prepare full chapters for this book in order to disseminate their findings and promote further research collaborations. This timely book sheds new light on the theories and practices associated with greening logistics and SCM in Asia. In a fast moving world the transportation of goods is expected to be more efficient than ever before. This compendia features papers that address key themes in green logistics such as benchmarking and energy efficiency and includes highly cited papers from international contributors such as Alan McKinnon and Joseph Sarkis.

Best Practices in Green Supply Chain Management uses present case studies from the Indian and Mexican manufacturing industries to offer new insights on the challenges of integrating environmental awareness into supply chain management operations in developing countries.

This book gives students a thorough overview of the environmental issues that impact the supply chain and details strategic methods of addressing the political, social, technological, market, and economic concerns that have caused organizations to reconsider their impact. Readers will learn how to integrate the fields of operations management, procurement and purchasing, logistics, and marketing into a successful green supply chain, looking outward to form sustainable partnerships rather than focusing their efforts within the company. Each chapter describes a function or dimension of green supply chains, supplemented with short vignettes to ground the theory in practice. The authors examine various industries, including electronics, food products, and manufacturing, and draw on case studies from the Americas, Europe, Asia, and Oceania, allowing students to compare and contrast domestic and international practices. Blending industry insights with the latest academic thinking, they also consider hot button topics like global–local relationships, the role of third parties, green multitier supplier management, and blockchain technology management. Conclusive chapter summaries and plenty of visual aids help readers retain the information they need to improve environmental performance within, and beyond their organizations. Green Supply Chain Management is an excellent introduction to the topic for students and practitioners of supply chain management and environmental sustainability.

The LTLGB 2012 conference is intended to bring together researchers and related

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government officials involved in low carbon transportation, low carbon logistics and green building, industrial practitioners to present, discuss and exchange ideas, results and experiences in the area of low carbon transportation, low carbon logistics and green building and interdisciplinary applications.

The study of logistics and supply chain management become a trending topic recently. Researcher and practitioners have been working to elaborate the concept, strategy, framework and application of logistics and supply chain management in industrial operations. Thus, the competition is not between firms any more but it is all about logistics and supply chain management strategy competition. The progress of world wide regulations and law, global completion, the increasing demand from customers in social and environmental considerations and the sustainability issues has forced researchers and industrial practitioners to expand the perspective on beyond logistics and supply chain management concept. Reverse logistics and green supply chain management are such the innovative ideas for researcher to discuss and for industry practitioners to adopt. This book attempts to describe the concept of supply chain management and logistics in traditional system and figure out the progress of green supply chain management and reverse logistics study. The first two chapters of this book overviews the concept of supply chain management in both perspective application of strategic and operational levels based supply chain management's business process and supply chain management elements. The last two chapters of this book give more attention on these areas: green supply chain management and reverse logistics specifically on the previous study has been done by researchers. The overview and review of green supply chain management and reverse logistics in this book would help readers to understand more about the concept of logistics and supply chain management and would give new directions of further research in green supply chain management and reverse logistics.

This book presents scheduling with a medium- and short-term focus, which makes it possible to capitalize on fleeting market opportunities while simultaneously working to reconcile economic and environmental priorities. It introduces a new mixed-integer approach to hierarchical discrete-time and continuous-time scheduling, combining aspects of production and recycling, forward and reverse logistics as well as emissions trading for multi-stage supply chain networks. Problem-specific variants of relax-and-fix heuristics and genetic algorithms are also proposed. Given its scope, the book provides a range of practical tools and new perspectives for researchers and professionals in the field of supply chain management.

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