

Article

Evaluation of the Environmental Cost of Integrated Inbound Logistics: A Case Study of a Gigafactory of a Chinese Logistics Firm

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Abstract: In recent years, sustainable development has become an emerging trend in the logistics industry. Smart manufacturing factories pursue green logistics processes with lower energy consumption and reduced carbon emission. The environmental sustainability of the logistics process is widely acknowledged as an important issue. However, a standardized methodology for assessing the environmental cost of logistics-process-aided smart manufacturing is lacking. This paper presents a concept for determining the inbound logistics environmental cost (ILEC) of a gigafactory. Additionally, a novel structured methodology for ILEC assessment is proposed to uniformly describe the gigafactory's logistics environmental cost, regarding the "double carbon" goal (peak carbon dioxide emissions and carbon neutrality). First, eight types of basic logistics activities and six logistics phases associated with the gigafactory's inbound logistics are defined. The mapping relationships between the logistics phases and the basic logistics activities are constructed. Then, the novel concepts of environmental price cost (EPC) and environmental impact cost (EIC) are defined and presented. Finally, the ILEC of the gigafactory, including EPC and EIC, is assessed based on mapping relationships and an environmental cost model. We validate this model using the advanced Geely Automobile factory in China in order to analyze the actual inbound logistics environmental costs and how to assess its environmental price and environmental impact. Results from the data model show the environmental costs throughout the whole process and the detailed composition ratio of EPC and EIC in the inbound logistics. Based on the implementation of the ILEC model, our study helps gigafactories to identify critical logistics nodes through energy consumption and to measure the environmental performance of the inbound logistics process. Furthermore, our study helps gigafactories to develop practical environmental strategies.

Keywords: double carbon; gigafactory; inbound logistics; environmental cost; energy consumption cost



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1. Introduction

There has been an increased focus on environmental sustainability in recent years due to recent developments and the estimated future state of the climate [1]. Existing research reveals that logistics contribute substantially to greenhouse gas (GHG) emissions [2]. A total of 95% of GHG emissions come from energy consumption [3] and more than 20% of energy consumption can be attributed to logistics and transportation [4]. Emissions from the transport sector also account for the fastest-growing source of GHG emissions [5,6]. The logistics industry has become one of the most dominant carbon emission contributors in China [7]. To solve this problem, the country has proposed the double carbon goal to achieve a carbon peak by 2030 and carbon neutrality by 2060 [8]. In line with the global trend of green and sustainability, there is growing concern about energy availability and its impacts on the logistics industry [9].

The Firm Competitiveness And Environmental Regulations A Study Of The European Food Processing Industries

Rhys Jenkins, Jonathan Barton



The Firm Competitiveness And Environmental Regulations A Study Of The European Food Processing Industries:

The Firm, Competitiveness and Environmental Regulations Fondation européenne pour l'amélioration des conditions de vie et de travail, David M. W. N. Hitchens, 1998 The Firm, Competitiveness, and Environmental Regulations D. M. W. N. Hitchens, European Foundation for the Improvement of Living and Working Conditions, 1998 Do environmental regulations harm international competitiveness In answer to this question this book focuses on the impact of regulatory policies on competitiveness and employment at the firm level It investigates the trade off between environmental regulations and competitiveness across countries and regions throughout Europe using the food processing industry as a case study The authors compare and contrast the experiences of similar firms across Europe to examine the different costs firms face in applying environmental regulations and the different levels of competitiveness they achieve as a result The investigation includes a detailed and thorough comparison of the European food processing industries using 67 company case studies The results show that firms can achieve national or international levels of competitiveness even when they face a relatively unfavourable level of regulatory costs These important findings will almost certainly have general application to small and medium sized firms in other industries This book will be welcomed by policymakers practitioners researchers and academics interested in industrial economics environmental management and environmental economics **Industry and the European Union** Michael Darmer, Laurens Kuypers, 2000-01-01 This book is a most valuable contribution to the understanding of the complexity of European policies and their impact on individual businesses and industry as a whole That focus makes this book unique All in all there are only a few books about the industrial policy of the European Union and none with such a focus Karel van Miert Universiteit Nijmegen The Netherlands Contrary to standard works covering community industrial policy this book is based on the experience of those involved in the actual formulation of policies It documents the evolution of this policy towards a horizontal approach combining various instruments that need to be made consistent with each other This book will be very valuable to scholars and policymakers alike Alexis Jacquemin European Commission and Universit Catholique de Louvain Belgium European policies increasingly affect the daily decisions of European firms Better understanding of the motivation and reasoning behind policies that affect industry is therefore essential to those interested in or affected by industrial policy Industry and the European Union explores different European policy areas focusing on aspects that are of particular importance for business *Competitiveness Food Industry* Bruce Traill, Eamonn Pitts, 1998 International competitiveness is a prime concern of food industries and governments around the world This book provides a review of the current thinking on competitiveness *International Environmental Management Benchmarks* David M.W.N. Hitchens, Jens Clausen, Klaus Fichter, 2012-12-06 Facing the challenges of globalization and ecology the standards for economic social and environmental performance of companies are becoming more demanding This book shows what sustainable development means for the business community and presents best practice approaches in environmental

management from Japan the USA Brazil and seven European countries The book stresses that international competitiveness depends on the effective use of innovative management tools and has to be supported by an intelligent system of environmental regulation that is promoting innovation and eco efficiency Experts with many years of practical experience share their know how on how to achieve excellency in environmental performance and present concrete steps towards a sustainable company

The Impact of Environmental Regulations on Production and Exports in the Food Processing, Garment and Pharmaceutical Industries in Selected ESCWA Member Countries ,2001 *Progress in Sustainable Development Research* Roberto Antonio Lopez,2008 This book presents new and important research advances in the field of sustainable development which has been defined as balancing the fulfilment of human needs with the protection of the Natural environment so that these needs can be met not only in the present but in the indefinite future The term was used by the Brundtland Commission which coined what has become the most often quoted definition of sustainable development as development that meets the needs of the present without compromising the ability of future generations to meet their own need The field of sustainable development can be conceptually broken into four constituent parts environmental sustainability economic sustainability social sustainability and political sustainability

Environmental Regulation in the New Global Economy Rhys Jenkins,Jonathan Barton,2002-07-29 This book attempts to answer these questions using case studies of three pollution intensive industries iron and steel leather tanning and fertilizers Based on in depth interviews with managers and regulators in Western and Eastern Europe Asia Africa and Latin America the book illustrates the variety of responses to the conflicting pressures of globalization and environmental protection at corporate and industry levels

Can the Celtic Tiger Cross the Irish Border? John Bradley,J. Esmond Birnie,2001 One of the Republic s outstanding economists John Bradley and the prominent Unionist politician and economist Esmond Birnie debate to what extent Northern Ireland can learn from the phenomenon of the Celtic Tiger Professor Bradley asks what lessons the North can take from the success of the Republic s economic planning and whether it makes sense for the island to trade and seek investment as one unit in a globalized economy Dr Birnie wonders whether the low level of trade and economic interchange between the two Irish economies is really abnormal in European terms and whether a successfully co ordinated island economy is possible in two separate political jurisdictions

World Agricultural Economics and Rural Sociology Abstracts ,2000

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Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**The Firm Competitiveness And Environmental Regulations A Study Of The European Food Processing Industries**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Introduction

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