



Research article

The dynamic relationship among green logistics, technological innovation and green economy: Evidence from China

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ABSTRACT

Under the background of “double carbon”, exploring the growth path of green logistics and enhancing the driving force of technological innovation is the urgent need of our country to comply with the green transformation of its economy and realize high-quality economic growth. Taking the panel data of 30 Chinese provinces from 2010 to 2020 as the sample, the green logistics index evaluation system is constructed based on the driver-pressure-state-impact-response (DPSIR) theoretical framework, and the green economic efficiency of each province in the sample period is measured by using the non-expected output Super-Slacks-based measure (SBM) model, and by constructing the panel vector autoregressive (PVAR) model including technological innovation is used to systematically elaborate the dynamic influence paths among the three. The study found that: China's green economy, technological innovation, and green logistics all have their own mechanisms for growth, which will gradually diminish over time. In the near and long term, green logistics will promote technological innovations and the evolution of a green economy, but there is a lag in the long-term benefits of green logistics on technological progress. In the short term, technological innovation does not lend support to the growth of a green economy, but over time, the impact of technological innovation on the growth of that economy will shift from negative to positive. This shows that improving technological innovation capability is an important path for green logistics to promote green economic efficiency. The findings of the study provide a basis for decision making to achieve the emission reduction target and improve the efficiency of the green economy.

1. Introduction

All of humanity faces the challenge of climate change, and carbon neutrality has emerged as a key issue in the latest stage of the global technological and economic revolution [1]. At present, The Chinese economy has progressed to a high-quality development stage. To address resource and environmental constraints, achieve sustainable development, and promote economic structural transformation and modernization, we cannot do without the drive of “double carbon” [2]. The main strategy to reach peak carbon and carbon-neutral is going green and low-carbon, as it is a prerequisite for qualitative growth and integration of old as well as new dynamics [3]. China has actively addressed climate change and promoted a radical transformation of economic and social growth to a more environmentally friendliness type, and played a key role in global climate governance. Since the 18th National Congress of the Communist Party of China, The Communist Party of China Central Committee with Comrade Xi Jinping at its core has promptly

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Technological Innovation For A Dynamic Economy

C. Freeman



Technological Innovation For A Dynamic Economy:

Technological Innovation for a Dynamic Economy Christopher T. Hill, James M. Utterback, 1979 **Handbook of the Economics of Innovation** Bronwyn H. Hall, Nathan Rosenberg, 2010-05-14 Economists examine the genesis of technological change and the ways we commercialize and diffuse it The economics of property rights and patents in addition to industry applications are also surveyed through literature reviews and predictions about fruitful research directions Two volumes available as a set or sold separately Expert articles consider the best ways to establish optimal incentives in technological progress Science and innovation both their theories and applications are examined at the intersections of the marketplace policy and social welfare Economists are only part of an audience that includes attorneys educators and anyone involved in new technologies *Research and Experimentation Tax Credit* United States. Congress. House. Committee on Ways and Means. Subcommittee on Oversight, 1985 Technical Change and Industrial Transformation Giovanni Dosi, 1984-08-16

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Special Bibliography Series , 1957 *Special Bibliography Series* United States Air Force Academy. Library, 1984

The Management of Innovation and Technology John Howells, 2005-02-09 The book provides a valuable resource for researchers practitioners and policy makers In particular it provides a good introduction to broader aspects of the field of innovation for researchers based within the engineering and science traditions Journal of Manufacturing Technology Management Howells has synthesised a broad range of sources with considerable insight to provide the first sophisticated single volume on innovation that draws on economics sociology law and from the history of science and technology By setting innovation in social and institutional context he convincingly shows how firms and markets shape and can be shaped by the decisions of managers and entrepreneurs I will certainly be using this book as a central text for my Masters degree teaching on innovation management management of technology and related topics Jonathan Liebenau London School of Economics and Columbia University A great strength of the book is the extensive and detailed integration of rich case study analyses into the main flow of the argument Many apparently well known cases are revisited and critically assessed to draw clear and often contrary to popular belief lessons This is a highly original and commendable feature of this text It provides an unusually strong integration between theory and examples And there is no doubt of the relevance of the examples they are not inserted as an afterthought but are intrinsically part of the development of the thinking Professor James Fleck Head of

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Innovations Amit Bhaduri, 2007-03-14 Idea for those studying advanced macroeconomic and written by a widely published author this book outlines a new and more fruitful way of understanding analyzing and formally modelling economic growth In his series of lectures collected here in one concise and engaging book Amit Bhaduri draws on contemporary issues such as the role of competition policy labour market flexibility and intellectual property rights regime in influencing the rate of economic growth to sketch an alternative approach to mainstream growth theory He explores the role of division of labour innovation and market structure according to Smith Marx and Schumpeter the role of class distribution of income according to Ricardo the principles of effective demand according to Keynes and Kalecki It is an invaluable tool for anyone engaged with growth and distribution theory and technical innovation as well as taking advanced macroeconomics **Worst Things**

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The Theory of the Firm Nicolai J. Foss, 2000

What Ever Happened to the Toxic Substances Control Act? United States. Congress. House. Committee on Government Operations. Environment, Energy, and Natural Resources Subcommittee, 1989

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