



RESEARCH ARTICLE

Interrelationship among environmental policy stringency, financial globalization in OECD countries, and CO₂ emission with the role of technological innovation and financial development

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Abstract

The study examines the nexus between financial globalization (FG), environmental policy stringency (EPS), financial development (FD), and technological innovation (INV) on CO₂ emission with moderating effect of technological innovation on financial development and environmental degradation in 36 OECD countries with an updated dataset from the period of 1990 to 2020 using PMG (Pooled mean group) panel ARDL method. The results of stationarity tests; (Levin, Lin, and Chu test; ADF Fisher test) demonstrate that selected variables are stationary at level I(0) and first difference I(1); this confirms that PMG estimator can be employed. Cointegration tests indicate that cointegration exist among the variables. The empirical findings of the PMG estimator indicate that financial globalization and CO₂ are negatively associated with each other. While financial development, environmental policy stringency, and technological innovation have positive impact on environmental degradation in OECD countries. Furthermore, technological innovation strengthens the association between financial development (FD) and environmental degradation (CO₂ emission). In order to accelerate economic growth, the study recommends that policymakers should implement environmental policies to achieve low-carbon mechanisms, such as green infrastructure and renewable energy systems, which reduce energy consumption and greenhouse gas emissions. Therefore, it is crucial that the selected OECD countries should develop programs that increase awareness of the risks of carbon emissions.

Keywords CO₂ emission · Financial development · Financial globalization · Technological innovation · Environmental policy stringency · OECD

Introduction

From the last several decades, social scientists, environmental economists, and energy specialists have agreed that environmental changes have detrimental impact on life and wellbeing of human (Tahir et al. 2021). Countries are confronting major environmental issues because of the dominant role of global greenhouse gas (GHG) emissions (Yang

et al. 2021). To minimize severe environmental catastrophe, researchers, policymakers, and governments are focusing on the reduction of increasing GHG emissions which are the primary drivers of the global warming. Global environmental changes are accountable for deforestation, droughts, rising sea levels, storms, floods, and output volatility all over the world (Majeed and Mazhar 2019; Altinoz et al. 2020). Such events have great influence on human lives, infrastructure, agricultural land, and natural resources.

Environmental factors have prompted global strategies for sustainable development. Over the last 15 decades, the implications of rising global temperature (Murshed et al. 2022a, b) on life have become clear. The emission of CO₂ increased from 16 m from 1980 to 2018 (Danish et al., 2018). Energy consumption around the globe is anticipated to reach 28%, implying harmful impact on the atmosphere. Rasoulinezhad et al. (2020) reveal that 2015 was warmest year of the past four decades. In 2019, the fire in Amazon

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Table of Contents Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents

1. Understanding the eBook Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - The Rise of Digital Reading Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - Advantages of eBooks Over Traditional Books
2. Identifying Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - User-Friendly Interface
4. Exploring eBook Recommendations from Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - Personalized Recommendations
 - Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents User

Reviews and Ratings

- Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents and Bestseller Lists

5. Accessing Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents Free and Paid eBooks

- Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents Public Domain eBooks
- Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents eBook Subscription Services
- Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents Budget-Friendly Options

6. Navigating Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents eBook Formats

- ePub, PDF, MOBI, and More
- Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents Compatibility with Devices
- Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
- Highlighting and Note-Taking Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
- Interactive Elements Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents

8. Staying Engaged with Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Oecd Studies On Environmental Innovation Environmental Policy Technological

Innovation And Patents

9. Balancing eBooks and Physical Books Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - Setting Reading Goals Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - Fact-Checking eBook Content of Oecd Studies On Environmental Innovation Environmental Policy Technological Innovation And Patents
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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