

Benefits of Environmental and Economic Security from a Sustainable Development Perspective

Mohammed Khayyum*

Department of Environmental and Occupational Health, Florida International University, Miami, USA

Introduction

The main obstacles to the economy's sustainable development under the concept of sustainable development are issues like excessive resource consumption, serious environmental pollution and ecosystem degradation. From the perspectives of sustainable development and scientific and technological ecological environment, the purpose of this paper is to examine the advantages of environmental protection and economic security. The experimental results of economic security and environmental benefits are analysed in light of the proposed indicator system for the coordinated development of eco-technology innovation and the economic environment. This paper's experimental findings demonstrate that the material utilization rate and unit cost are essentially stable and significantly lower than before following the implementation of the eco-technology innovation management system (IEIMS for convenience).

Description

Numerous natural resources have been depleted and destroyed as human society has developed. The world's industrialization and urbanization process has gradually accelerated since the Second World War and the rapid growth of the economy has led to an overuse of natural resources that exceeds the natural load. This has had a significant negative impact. Many economists began to question the value of economic growth in a narrow sense as environmental issues got worse. They held the belief that focusing solely on expanding the gross national product and disregarding social welfare would harm people's living conditions, quality of life and social welfare. This paper proposes the concept of harmonious development of economy and environment and employs the comprehensive evaluation index system to establish the system of harmonious development of economy and environment in order to address the issues of high resource consumption, severe environmental pollution and ecosystem degradation. SD encompasses all social development processes and links. The most tangible and immediate benefits of economic development achievements are those related to environmental protection and economic safety. The mechanical biological climate is a significant assurance and supporting condition for accomplishing maintainable financial and social turn of events [1].

Scholars have conducted pertinent research on the economic and environmental benefits based on the existing research results. From the perspectives of health, society, the economy and the environment, Matthew Carmona discussed the connection between architectural environmental quality and its value. The degree to which developing nations achieve the objective of green growth is related to the interaction between environmental pollution

***Address for Correspondence:** Mohammed Khayyum, Department of Environmental and Occupational Health, Florida International University, Miami, USA; E-mail: mohammedkhayyum125@gmail.com

Copyright: © 2023 Khayyum M. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Received: 01 March, 2023, Manuscript No: Jeat-23-93953; **Editor Assigned:** 03 March, 2022, Pre-QC No. P-93953; **Reviewed:** 15 March, 2023, QC No. Q-93953; **Revised:** 22 March, 2023, Manuscript No: R-93953; **Published:** 29 March, 2023, DOI: 10.37421/2161-0525.2023.13.701

and economic development. The economy would be based on an inverted U-shaped Kuznets curve if social, political and economic factors effectively reduced pollution. As a result, Samuel Egbetokun used Nigeria as a case study to investigate the Kuznets curve and six environmental variables—temperature, carbon dioxide, nitrogen monoxide, suspended particulate matter, rainfall and greenhouse gas emissions—combined with the curve. To get a better understanding of the economic forces that are driving these changes, Joseph S. Shapiro created and evaluated a quantitative model that links trade and the environment. Vikas Kumar set out to look at social politics, the economy, the law and the environment as well as the manufacturing industry's challenges. Notwithstanding, these researchers examination on financial and natural insurance benefits missing the mark on specific specialized exhibition. According to the findings of the research, SD was more beneficial to the benefits of environmental and economic protection. Relevant SD documents were consulted in this regard [2].

Syed Abdul Rehman Khan has also been the subject of some research, this time looking at it from the point of view of Asia's emerging economies. They have talked about things like the green logistics index and economic, social and environmental aspects. Researchers and policymakers would be able to appreciate the significance of environmental protection concepts in enhancing social, economic and environmental performance as a result of this. The significance of circular economy practices to the achievement of SD objectives was determined by Patrick Schroeder. It was discovered through pertinent research on the practice of the circular economy and SD goals that the practice of the circular economy can directly contribute to numerous SD goals. However, these researchers only superficially discussed the advantages of economic security and environmental protection from the SD and technological ecological environment perspectives [3-5].

Conclusion

This paper proposes the concept of coordinated development of economy and environment, builds a system of coordinated development of economy and environment through comprehensive evaluation index system and conducts a simulation experiment on the eco-technology innovation management of the production department of a residential building materials industry limited company to address the issues of high resource consumption, serious environmental pollution and ecosystem degradation. The material utilization rate and unit cost have essentially stabilized following the implementation of the eco-technology innovation management system and the cost is significantly lower than before.

References

1. Rony, Rajib Uddin, Huojun Yang, Sumathy Krishnan and Jongchul Song, et al. "Recent advances in transcritical CO₂ (R744) heat pump system: A review." *Energies* 12 (2019): 457.
2. Feng, Fan, Ze Zhang, Xiufang Liu and Changhai Liu, et al. "The influence of internal heat exchanger on the performance of transcritical CO₂ water source heat pump water heater." *Energies* 13 (2020): 1787.
3. Belman-Flores, J. M., Vicente Pérez-García, Jean Fulbert Ituna-Yudonago and José Luis Rodríguez-Muñoz, et al. "General aspects of carbon dioxide as a refrigerant." *J Energy South Afric* 25 (2014): 96-106.

4. Liu, Yi-Hung, Hiroyuki Maruyama and Shuji Matsusaka. "Agglomeration process of dry ice particles produced by expanding liquid carbon dioxide." *Adv Powder Technol* 21 (2010): 652-657.
5. Hoekstra, A. J., J. J. Derkxen and H. E. A. Van Den Akker. "An experimental and numerical study of turbulent swirling flow in gas cyclones." *Chem Eng Sci* 54 (1999): 2055-2065.

How to cite this article: Khayyum, Mohammed. "Benefits of Environmental and Economic Security from a Sustainable Development Perspective." *J Environ Anal Toxicol* 13 (2023): 701.