



Quadruple Helix Logistics Model: A New Strength of Supply Chain in Circular Economy

Nur Fadiah Mohd Zawawi, Sazali Abd Wahab, Siti Nurulaini Azmi, Assayidatul Laila Nor Hairin, Khairil Wahidin Awang, Mohd Rafi Yaacob

Source Title: Handbook of Research on Designing Sustainable Supply Chains to Achieve a Circular Economy

Copyright: © 2023 Pages: 21

DOI: 10.4018/078-1-6684-7664-2.ch024

OnDemand: (Individual Chapters) \$37.50
Current Special Offers

Buy Instant PDF Access

Qty: 1 \$37.50

Add to Cart

Available. Instant access upon order completion.

Share

Recommend to Librarian

Recommend to Colleague

Fair Use Policy



Free Content

Sample PDF

More Information

Rights & Permissions CCC

Abstract

The purpose of this chapter is to review the concept of circular economy in the context of logistics and supply chain, which it is crucial in dealing with climate change. To strengthen the circular supply chain, this chapter proposed the Quadruple Helix logistics model (QHLM). The model emphasized corporate spirituality values that instill responsibility for environmental, social, and economic sustainability in four key components: the government, university, logistics companies/departments, and community, all of which are thought to be critical for the success of circular economy implementation, resulting in sustainable development. Finally, this chapter discusses the future prospects of logistics within the circular economy concept, presenting a win-win situation between environmental conservation, societal well-being, and business sustainability.

Chapter Preview

Top

Background

The world is deteriorating by the day. Because of global warming, the climate changes dramatically these days. Scientists agreed that the primary cause of global warming is the combustion of fossil fuels, which emits carbon dioxide (CO₂), nitrogen dioxide (NO₂), and other poisonous particles into the environment (European Environment Agency, 2021). CO₂ and NO₂ combined to form GHG, one of the primary causes of global warming (United States Environmental Protection Agency