


Chapter 10

Emerging Trends in Social Sustainability Within Manufacturing Supply Chains

Mohd. Asif Gandhi

 <https://orcid.org/0000-0002-3976-9269>
*Anjuman-I-Islam's Kalsekar Technical
Campus, India*

Eti Khatri

*Nitte Meenakshi Institute of Technology,
India*

Nittan Arora

*CT Institute of Engineering,
Management, and Technology, India*


Kuldeep Agnihotri

ISBA Group of Institutes, India


A. Thangam

*Community College (Lawspet),
Pondicherry University, India*

V. V. S. Murty Bolla

 <https://orcid.org/0009-0008-6777-5261>
*ICFAI Foundation for Higher
Education, India*

V. Bhoopathy

 <https://orcid.org/0000-0003-2175-6328>
Sree Rama Engineering College, India

ABSTRACT

Social sustainability in industrial supply chains is increasingly essential as organizations adapt to evolving consumer expectations, legal mandates, and technological progress. This chapter analyses upcoming trends and developments influencing the future of social sustainability, such as the ascent of ethical consumerism, the enhancement of regulatory frameworks, and the incorporation of modern technologies. It examines the transforming landscape of manufacturing work, focussing on the effects of automation, the imperative for worker upskilling, and the continuous

DOI: 10.4018/979-8-3373-0923-1.ch010

endeavour to safeguard labour rights in a swiftly moving context. This chapter elucidates how manufacturers can effectively manage the intricate relationship between social responsibility and operational efficiency, thereby promoting a sustainable and equitable future.

1. INTRODUCTION

The complexity of supply chains has grown due to globalization and outsourcing. Sustainability and sustainable development have also evolved in the last several decades, coinciding with this trend, as people have grown more aware of humanity's growing influence on the planet. The concept of sustainability was brought to the forefront of global consciousness by the World Commission on Environment and Development (WCED) in their report *Our Common Future*, also known as the Brundtland Commission Report (Hutchins & Sutherland, 2008). The report defined sustainable development as meeting the needs of the present without compromising the ability of future generations to meet their needs. Agenda 21 and the Millennium Development Goals are only two examples of the many ways the UN has shown its dedication to sustainability. Sustainability has also become an integral part of the goals of many institutions and organizations, whether large and small, on a global and national basis. Making the Brundtland concept operational, or use it to influence decisions, is one of the main issues of sustainability. An alternate interpretation of sustainability, offers some insight into the matter: design and operation of human and industrial systems to ensure that humankind's use of natural resources and cycles does not lead to diminished quality of life due to either losses in future economic opportunities or to adverse impacts on social conditions, human health, and the environment. According to this definition, metrics, which are measurements of performance, are necessary for evaluating the effectiveness of any choice in terms of the subsequent sustainability. The longevity of a supply chain, which consists of many different businesses, is directly related to the longevity of each company in the chain.

26 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: www.igi-global.com/chapter/emerging-trends-in-social-sustainability-within-manufacturing-supply-chains/387701

Related Content

Strategic HRM and Generative AI: Case Studies on Successful Implementation of Gen AI in SHRM

Sana Ahmed (2025). *Human Resource Management in the Age of Generative AI* (pp. 47-74).

www.irma-international.org/chapter/strategic-hrm-and-generative-ai/368906

Convolutional Neural Networks for Detection of COVID-19 From Chest X-Rays

Karishma Damania, Pranav M. Pawar and Rahul Pramanik (2022). *International Journal of Ambient Computing and Intelligence* (pp. 1-21).

www.irma-international.org/article/convolutional-neural-networks-for-detection-of-covid-19-from-chest-x-rays/300793

Schedule-Aware Transactions for Ambient Intelligence Environments

Vasileios Fotopoulos, Apostolos Zarras and Panos Vassiliadis (2010). *International Journal of Ambient Computing and Intelligence* (pp. 55-69).

www.irma-international.org/article/schedule-aware-transactions-ambient-intelligence/47177

An Improved Density Peak Clustering Method for Power Load Anomaly Detection

Han Jianfeng, Chen Xinxin, Wang Li, Fan Shurui and Zhang Yong (2025). *International Journal of Intelligent Information Technologies* (pp. 1-23).

www.irma-international.org/article/an-improved-density-peak-clustering-method-for-power-load-anomaly-detection/385734

Edge Computing-Based Internet of Things Framework for Indoor Occupancy Estimation

Krati Rastogi and Divya Lohani (2020). *International Journal of Ambient Computing and Intelligence* (pp. 16-37).

www.irma-international.org/article/edge-computing-based-internet-of-things-framework-for-indoor-occupancy-estimation/262646