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Circular Economy Strategies and the UN Sustainable Development Goals

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Ebook Circular Economy

O García



Ebook Circular Economy:

Advancing a Circular Economy Stephen M Jones, 2021-03-01 This book explores an escalating modern day crisis managing waste in a sustainable way The central question posed is whether advancing a circular economy provides a way to shift waste management practices towards more sustainable approaches It begins with an in depth analysis of the nature of waste management and the prevailing crisis followed by a discussion about the circular economy in terms of its requirements and the challenges of implementation The book then moves on to propose a framework that sets out how to establish the policy changes needed to advance a circular approach to waste management Next the book outlines complex issues in multilevel systems for advancing a circular economy through examining the contemporary situation in Belgium and Norway It ends by bringing together the issues revealed in these case studies and draws insights for governments advocating circular approaches The book will be a valuable resource to scholars students practitioners and policy makers interested in developing more sustainable methods of waste management

Circular Economy Supply Chains Lydia Bals, Wendy L. Tate, Lisa M. Ellram, 2022-04-19 Circular Economy Supply Chains highlights the need for cross industry flows and the need for different actors in circular value cycles This book intends to move beyond a buyer supplier view embracing a holistic network or ecosystem view to consider a cross industry system perspective

Circular Economy: Recent Trends in Global Perspective Sadhan Kumar Ghosh, Sannidhya Kumar Ghosh, 2021-11-23 This book presents the advantages of the circular economy as a powerful and inevitable model for tackling the current challenges against shrinking resources and establishing the resource efficient economy The experienced contributors present the status and strategies of circular economy implementation in several countries with hands on experience to protect the environment while promoting the circular economy through legislative requirements best practices adopted and popularizing the idea of circulation of resources amongst the researchers academia policy makers industry and the general public at large The book advocates model that consists of designing products and processes with a view to endlessly recycling them evolving a greater scope of sustainable development

Circular Economy and Sustainability Alexandros Stefanakis, Ioannis Nikolaou, ***Circular Economy and Sustainability*** Alexandros Stefanakis, Ioannis Nikolaou, 2021-09-14 The concept of circular economy is based on strategies practices policies and technologies to achieve principles related to reusing recycling redesigning repurposing remanufacturing refurbishing and recovering water waste materials and nutrients to preserve natural resources It provides the necessary conditions to encourage economic and social actors to adopt strategies toward sustainability However the increasing complexity of sustainability aspects means that traditional engineering and management economics alone cannot face the new challenges and reach the appropriate solutions Thus this book highlights the role of engineering and management in building a sustainable society by developing a circular economy that establishes and protects strong social and cultural structures based on cross disciplinary knowledge and diverse skills It includes theoretical justification research

studies and case studies to provide researchers practitioners professionals and policymakers the appropriate context to work together in promoting sustainability and circular economy thinking Volume 1 Circular Economy and Sustainability Management and Policy discusses the content of circular economy principles and how they can be realized in the fields of economy management and policy It gives an outline of the current status and perception of circular economy at the micro meso and macro levels to provide a better understanding of its role in achieving sustainability Volume 2 Circular Economy and Sustainability Environmental Engineering presents various technological and developmental tools that emphasize the implementation of these principles in practice micro level It demonstrates the necessity to establish a fundamental connection between sustainable engineering and circular economy Presents a novel approach linking circular economy concepts to environmental engineering and management to promote sustainability goals in modern societies Approaches the topic on production and consumption at both the micro and macro levels integrating principles with practice Offers a range of theoretical and foundational knowledge in addition to case studies that demonstrate the potential impact of circular economy principles on both economic and societal progress *Circular Economy in the Agrifood Sector* Roberta Paltrinieri, Francesco Savoia, Stefano Spillare, 2022 **Circular Economy and Engineering** Carolina Machado, J. Paulo Davim, 2020-04-08 This book provides support to academics and researchers as well as those operating in the management and engineering fields that need to deal with policies and strategies that allow to move towards a more sustainable paradigm a greener economy that guarantees economic development and the improvement of living and working conditions Drawing on the latest developments ideas research and best practice this book examines the new advances in the subjects of circular economy *What is Circular Economy* Emanuele Bompan, Ilaria Nicoletta Brambilla, 2021 **Circular Economy Implementation for Sustainability in the Built Environment** Cobîrzan, Nicoleta, Muntean, Radu, Felseghi, Raluca-Andreea, 2023-10-03 The construction sector plays an essential role in the global economy using many exhaustible natural resources most of which are renewable in low percentages Moving towards a circular economy is essential because optimizing the consumption of materials and energy contributes to the development of an economic system that is independent more competitive and more resilient in the face of economic and social crises and various environmental factors The current take make and dispose model of the economy is unsustainable so a shift in thinking towards a circular economy is necessary This circular economy is an economic model that minimizes the use of natural resources by selecting them intelligently and minimizing the use of raw materials favoring the use of recyclable materials wherever possible while managing the resources used and maintaining and reusing them in the economic system for as long as possible Circular Economy Implementation for Sustainability in the Built Environment emphasizes the need to implement a circular economy model in the built environment and how to create a system that optimizes the use of resources and construction materials while preserving their properties and values Covering topics such as automobile industries lean manufacturing and operation

strategy this premier reference source is an excellent resource for engineers construction managers business leaders urban planners students and educators of higher education researchers and academicians

The Guide to the Circular

Economy Dustin Benton,Jonny Hazell,Julie Hill,2017-09-08 The term Circular Economy is becoming familiar to an increasing number of businesses It expresses an aspiration to get more value from resources and waste less especially as resources come under a variety of pressures price driven political and environmental Delivering the circular economy can bring direct costs savings to businesses reduce risk and offer reputational advantages and can therefore be a market differentiator but working out what counts as circular activity for an individual business as against the entire economy or individual products is not straightforward This guide to the circular economy gives examples of what this new business model looks like in practice and showcases businesses opportunities around circular activity It also explores the debate around circular economy metrics and indicators and helps you assess your current level of circularity set priorities and measure success equips readers to make the links between their own company s initiatives and those of others making those activities count by influencing actors across the supply chain outlines the conditions that have enabled other companies to change the system in which they operate Finally this expert short work sets the circular economy in a political and business context so you understand where it has come from and where it is going

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