

The circular economy model:
less raw material, less waste, fewer emissions



Circular Economy 2025 Edition

Hussin A.Rothana



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, *Enhancing ASEAN's Role in Critical Mineral Supply Chains* Sharon Seah, Mirza Sadaqat Huda, 2024-02-27 The clean energy transition momentum is gathering pace globally and in Southeast Asia as well The transition is dependent on an uninterrupted supply of critical minerals and metals that are essential for the production of low carbon technologies The supply of critical minerals is impeded by several constraints First is the dominance of a handful of countries in both the upstream and downstream parts of the supply chain Second is the current geopolitical race to secure supplies leading to greater protectionist behaviours exhibited through export bans and trade impediments This study focuses on four selected critical minerals which are important to the region Two criteria are used in determining a mineral having high significance 1 There are significant deposits of it which can be tapped on to bolster Southeast Asia's strategic position in the supply chains and 2 It is an essential input in industries and sectors of importance in Southeast Asia The four critical minerals examined in this study are copper nickel bauxite alumina and rare earth elements REEs The study makes three recommendations to enhance ASEAN's role in the critical minerals supply chains The first addresses the insufficiency of investments in early stage exploration and exploitation of critical minerals and in the process calls for an embracing of circular economy principles The second appeals for investments at all stages including in technology to tap into downstream activities beyond refining and purification and in the manufacturing of component parts such as battery cell storage and permanent magnets The third calls for improvements in sustainability management in the mining sector which is generally extremely environmentally and socially damaging to communities

Towards a National Circular Economy Strategy for Hungary

OECD, 2023-04-28 The growing demand for raw materials in the Hungarian economy projected up to 2050 is expected to exert significant additional pressure on the environment putting the country at risk of missing important environmental goals and opportunities to strengthen the competitiveness and resilience of its economy Despite the notable progress in decoupling environmental pressures from economic activities over the past 20 years several challenges remain OECD Urban Studies The Circular Economy in Granada, Spain OECD, 2021-05-18 While the COVID 19 crisis has put many economic activities on hold notably tourism a pillar of Granada's economy it has also created a momentum towards more sustainable production and consumption patterns in line with carbon neutrality goals

Reshaping Environmental Science Through Machine

Learning and IoT Gupta, Rajeev Kumar, Jain, Arti, Wang, John, Pateriya, Rajesh Kumar, 2024-05-06 In the face of escalating environmental challenges such as climate change air and water pollution and natural disasters traditional approaches to understanding and addressing these issues have yet to be proven sufficient Academic scholars are compelled to seek innovative solutions that marry digital intelligence and natural ecosystems Reshaping Environmental Science Through Machine Learning and IoT serves as a comprehensive exploration into the transformative potential of Machine Learning ML and the Internet of Things IoT to address critical environmental challenges The book establishes a robust foundation in ML

and IoT explaining their relevance to environmental science As the narrative unfolds it delves into diverse applications providing theoretical insights alongside practical knowledge From interpreting weather patterns to predicting air and water quality the book navigates through the intricate web of environmental complexities Notably it unveils approaches to disaster management waste sorting and climate change monitoring showcasing the symbiotic relationship between digital intelligence and natural ecosystems This book is ideal for audiences from students and researchers to data scientists and disaster management professionals with a nuanced understanding of IoT ML and Artificial Intelligence AI

The Trillion Dollar Shift Marga Hoek, 2018-01-12 Winner of the Gold Axiom Business Book Award 2019 in the Philanthropy Non Profit Sustainability category Over the past 30 years the world has seen great social improvements Technology has been developing at an enormous pace and is helping to solve our most pressing social and environmental challenges Yet despite this success our current model of development is still deeply problematic Natural disasters triggered by climate change have doubled since the 1980s violence and armed conflict now cost more than 13 percent of GDP social inequality and youth unemployment is worsening around the world and climate change threatens the global population with tremendous environmental as well as social problems Using the United Nations Sustainable Development Goals as a framework this book sets out how business and capital now have a real opportunity to help resolve these problems With clear and plentiful examples and cases of how businesses are making a difference relevant facts and figures to support the cases and inspiring and instructional information on how businesses can create sustainable value this highly readable book is a must read for businesses large and small that wish to genuinely support the delivery of the SDGs The Paris Climate Agreement and the Sustainable Development Goals SDGs drive change and offer a narrative and an opportunity to all to speak in one language on sustainability They provide us with a clear set of targets for 2030 Through following the SDGs opportunities abound for business and capital to unlock markets which offer endless potential for profit while at the same time working towards the Sustainable Development Goals This book illustrates for business how to make the much needed Trillion Dollar Shift

Building an Inclusive, Green and Low-Carbon Economy CCICED, 2023-07-04 This open access book introduces the major environmental green development issues from six major themes carbon neutrality nature based solution watershed management and climate adaptation BRI green development sustainable food supply chain ecosystem based integrated ocean management focusing on the progress of China's environment and development policies from 2021 accomplishments It is based on the research outputs of CCICED in the year of 2021 which marks China's start point of implementation of its 14th Five Year Plan when world economy also strived to recover from the pandemic

Regenerative Territories Libera Amenta, Michelangelo Russo, Arjan van Timmeren, 2022-03-11 This open access book provides new perspectives on circular economy and space explored towards the definition of regenerative territories characterised by healthy metabolisms Going beyond the mere reuse recycle of material waste as resources this work aims to understand how to apply circularity

principles to among others the regeneration of wastescapes The main focus is the development over time and in particular the way how spatial planning and strategies respond to new unpredictable urgencies and opportunities related with territorial metabolisms The book specifically focuses on living labs environments where it is possible to tackle complex problems through a multidisciplinary and multi stakeholder approach including the use of digital spatial decision support environment which could be able to include all the involved stakeholders Through a spatial scope of circularity this book describes several examples including among others ideas from different contexts such as Italy The Netherlands Belgium and Vietnam Through including reflections on methodology and representation as well as on solutions for circular and healthy metabolisms the book provides an excellent resource to researchers and students *Catalysis, Green Chemistry and Sustainable Energy* Angelo Basile, Gabriele Centi, Marcello De Falco, Gaetano Iaquaniello, 2019-11-22 Catalysis Green Chemistry and Sustainable Energy New Technologies for Novel Business Opportunities offers new possibilities for businesses who want to address the current global transition period to adopt low carbon and sustainable energy production This comprehensive source provides an integrated view of new possibilities within catalysis and green chemistry in an economic context showing how these potential new technologies may become useful to business Fundamentals and specific examples are included to guide the transformation of idea to innovation and business Offering an overview of the new possibilities for creating business in catalysis energy and green chemistry this book is a beneficial tool for students researchers and academics in chemical and biochemical engineering Discusses new developments in catalysis energy and green chemistry from the perspective of converting ideas to innovation and business Presents case histories preparation of business plans patent protection and IP rights creation of start ups research funds and successful written proposals Offers an interdisciplinary approach combining science and business Handbook on Social Innovation and Social Policy Stephen Sinclair, Simone Baglioni, 2024-03-14 Applying a critical perspective to stimulate dialogue and mutual learning between the interconnected fields of social innovation and social policy analysis this dynamic Handbook investigates the often contested relationship between these two areas of enquiry and practice Bringing together discerning contributions from a diverse team of international scholars and analysts it explores key policy insights practical lessons and advances in theoretical understanding which can be drawn from social innovation and social policy

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