

ROLE OF TECHNOLOGY IN SUSTAINABLE DEVELOPMENT



Sustainable Technology Development



OECD

Sustainable Technology Development:

Sustainable Technology Development Paul Weaver, Leo Jansen, Philip Vergragt, Geert van Grootveld, Egbert van Spiegel, 2000-04-01 In the time it takes to read this sentence about fifteen people will be added to the world's population. Read the sentence again and there will be thirty. Tomorrow each of these people will be demanding greater prosperity. Production and consumption are increasing fast but will have to grow even faster in the future to keep up with population growth and a world increasingly divided by inequality. How should we react to these trends? Certainly many use growth figures to forecast disaster. But there is an alternative vision: one of a sustainable future in which growth is seen not as a threat but as the driving force behind innovation. This is the scenario worked out in the Netherlands by Sustainable Technology Development (STD), a five-year programme of research and learning by doing based on setting up new innovation networks and working with new methods to search for sustainable technological solutions. In order to make sustainability tangible, STD made a leap in time. What human needs will have to be satisfied fifty years from now? Taking a sustainable future vision as a starting point, STD demonstrated what steps we should take today for new technologies and systems to be in place in time. These results are now available for the first time in a comprehensive, specifically written English language book together with a description of the unique working method of STD and the results and key lessons from a set of the programme's illustrative case studies. This book serves as a manual for industry, governments and social leaders wanting to prepare themselves for a sustainable future. Sustainable Technology Development sets out the programme's underpinning philosophy and describes its approach, methods and findings. Delivering sustainability means finding ways to meet human needs using a fraction of the natural resources we use today. The world's richer nations would be wise to target at least ten-fold improvements by 2050 in the productivity with which conventional natural resources and environmental services are used. And they need to bring new sustainable resources on stream to augment the resource base and replace the use of unsustainable alternatives. Sustainable Technology Development marks a significant contribution to our understanding of innovation processes and how these might be influenced in favour of sustainable technology development. In principle, technology could play a pivotal role in sustainable development. Whether it does or not depends on whether innovators can be encouraged to make this an explicit goal, adopt long-term time horizons and search for renewable technologies. Given the long lead times involved, there is no time to waste in beginning the search. The STD programme has begun to make inroads into one of the most urgent of all needs concerning sustainable development: that for innovation in the innovation process itself.

Sustainable Technology Development Paul Weaver, Leo Jansen, Geert van Grootveld, Philip Vergragt, Egbert van Spiegel, 2000. Sustainable Technology Development describes the Dutch national research programme of the same name which has sought ways to influence innovation processes and outcomes in favour of accelerating the development of sustainable technologies and maximising the contribution that technology can make toward sustainable development.

What is Sustainable Technology? Karel Mulder, Didac Ferrer, Harro van Lente, 2017-09-08 Designers of technology have a major responsibility in the current age. Their designs can have tremendous effects on society in both the short and the long term. In fact, sustainable development itself has all the characteristics of a design project, albeit a vast one. But a failed product design here will be not just be unsuccessful in the market; it will have far-reaching consequences. It is our common responsibility to make the project successful. Technology has played an important role in creating the problems that we now face, but it will also play an important role in solving them. But this does not mean the technological fix will be easy. How do we allocate resources and attention when there are myriad issues under the umbrella of sustainable development, currently in competition with one another? How do we arrive at precise specifications for the sustainable technologies that are to be developed and furthermore reach consensus on these specifications? What if our sustainable technological solutions aggravate other problems or create new ones? And because sustainable development is all about the long-term consequences of our actions, how do we assess the effects of modifying existing landscapes, infrastructures, and patterns of life? How could we be sure in advance that the changes that new technologies bring will make our society more sustainable? These dilemmas and paradoxes are the subject of this provocative book. Sometimes the claim that a technology is sustainable is made in order to make the technology acceptable in the political process, as in the case of nuclear energy production where the claims of sustainability refer to the absence of CO₂ emissions. In the case of biofuels, claims of sustainability have led to a fuel or food debate showing that sustainability has counteracting articulations. And the well-known rebound effect is observed when increased resource efficiency can create a stimulus for consumption. What is Sustainable Technology illustrates that the sustainability impact of a technology is often much more complicated and ambivalent than one might expect. Making improvements to existing designs is not the technological challenge that will lead to real solutions. We mustn't look to change a part of a machine but rather the machine as a whole or even the whole system in which it functions. It is these system innovations that have the potential to make a genuine contribution to sustainable development. What is Sustainable Technology will help all those involved in designing more sustainable technologies in determining their strategies. It does so by presenting case studies of different technologies in contrasting contexts. Each case asks: 1. What articulations of sustainability played a role in the design process? 2. What sustainability effects did this technology lead to? 3. Who was affected, where, and when? 4. Could the designer have foreseen these consequences? 5. How did the designer anticipate them? 6. How was societal interaction dealt with during the design process? Finally, the authors reflect on future options for the sustainable technology designer. They argue that an important first step is an awareness of the multitude of sustainable development challenges that play a role in production, use, recycling, and end-of-life disposal. What is Sustainable Technology will be essential reading for product designers, engineers, material scientists, and others involved in the development of sustainable technologies, as well as a wide academic audience interested in the complexities of the sustainable design process. Nature

Science and Sustainable Technology ,2008 Nature thrives on diversity and flexibility gaining strength from heterogeneity whereas the quest for homogeneity seems to motivate much of modern engineering Nature is non linear and inherently promotes multiplicity of solutions This new book presents new and original research on true sustainability and technology development

Environmental Technology Development in Liberal and Coordinated Market Economies S. Wong,2006-11-27 This book explores the role of institutions in policy making and the states role in promotion of technology focusing on environmental technology development Case studies include wind power diffusion in the UK and Germany waste recycling in a variety of countries and green automobile technology in the US and Japan

Integrating Science & Technology into Development Policies An International Perspective OECD,Department of Science and Technology,2007-05-23 This publication provides the proceedings of an international workshop held in South Africa intended to address how international co operation in science and technology can further the three inter related aspects economic social and environmental of the development process

Designing Sustainable Technologies, Products and Policies Enrico Benetto,Kilian Gericke,Mélanie Guiton,2018-07-03 This open access book provides insight into the implementation of Life Cycle approaches along the entire business value chain supporting environmental social and economic sustainability related to the development of industrial technologies products services and policies and the development and management of smart agricultural systems smart mobility systems urban infrastructures and energy for the built environment The book is based on papers presented at the 8th International Life Cycle Management Conference that took place from September 3 6 2017 in Luxembourg and which was organized by the Luxembourg Institute of Science and Technology LIST and the University of Luxembourg in the framework of the LCM Conference Series

Promoting Sustainable Innovation and the Circular Economy Ole-Andreas Rognstad,Taina Pihlajarinne,Jukka Mähönen,2024-07-26 The book explores the role of public market actors in sustainable and circular economy innovation and financing The shift to a circular economy requires active innovation alongside radical changes in law finance and policy considerations since regulation is often tightly connected with the assumption of a linear model of consumption Finance is crucial in creating sustainable and circular economy markets and innovations public finance is important from the perspective of seeing the state as an engine for promoting sustainable innovations but private funds are also required Legislative initiatives for promoting repairs have been proposed or adopted in the EU US and in Australia representing remarkable steps forward but still leaving many obstacles without legislative intervention This book examines circular economy regulation and policy on a comprehensive general level as well as assessing the regulatory possibilities of promoting the right to repair Promotion of circular economy innovations as well as changing the practices and changing consumer patterns towards a more comprehensive adoption of CE are discussed from perspectives of legal social and moral norms The book critically evaluates current legislative reforms and assesses existing barriers to the circular economy and innovation in intellectual property law consumer law and competition law Providing an

in depth analysis of this dynamic field geared towards reconsidering both existing and prospective policies and regulatory regime the book makes recommendations for solutions to legislative barriers It is an indispensable resource for both researchers and practitioners working at the intersections of markets innovations and sustainability

Inherently-sustainable Technology Development Arjun B. Chhetri,Rafiqul Islam,2008 Following an introduction that dwells on the philosophical and religious roots of sustainability including lengthy discussion of passages from the Quran this volume presents practical methods for achieving sustainable alternatives to current energy using technologies Chapters are included on fuel water waste water management agriculture food preservation and personal care products among other topics Many B both cite numerous talks and publications in journals that include Energy sources EEC innovation and Petroleum reservoirs International Science and Technology Co-operation Towards Sustainable Development

OECD,2001-03-07 This conference proceedings explores how widespread diffusion and application of cleaner technologies can help countries reach their sustainable development goals

What Is Sustainable Technology? Karel Mulder,Didac Ferrer,Harro van Lente,2011-05 Designers of technology have a major responsibility in the current age Their designs can have tremendous effects on society in both the short and the long term In fact sustainable development itself has all the characteristics of a design project albeit a vast one But a failed product design here will be not just be unsuccessful in the market it will have far reaching consequences It is our common responsibility to make the project successful Technology has played an important role in creating the problems that we now face but it will also play an important role in solving them But this does not mean the technological fix will be easy How do we allocate resources and attention when there are myriad issues under the umbrella of sustainable development currently in competition with one another How do we arrive at precise specifications for the sustainable technologies that are to be developed and furthermore reach consensus on these specifications What if our sustainable technological solutions aggravate other problems or create new ones And because sustainable development is all about the long term consequences of our actions how do we assess the effects of modifying existing landscapes infrastructures and patterns of life How could we be sure in advance that the changes that new technologies bring will make our society more sustainable These dilemmas and paradoxes are the subject of this provocative book

The Sustainable Technology Development Programme and the Policy Dialogue with Developing Countries: a Discussion J. Hans M. Opdam,1997 **Science, Technology, and Innovation for Sustainable**

Development Goals Ademola A. Adenle,Marian R. Chertow,Ellen H. M. Moors,David J. Pannell,2020-07-28 Science Technology and Innovation for Sustainable Development Goals showcases the roles that STI solutions can play in meeting on the ground socio economic and environmental challenges among domestic and international organizations concerned with the SDGs in three overlapping areas agriculture health and environment energy *The International Handbook on Environmental Technology Management* Dora Marinova,David Annandale,John Phillimore,2006 This handbook offers a tool

for environmental managers and environmental officers alike It contains ideas case studies and methodologies which stimulate continuous improvement thinking and help train staff to implement sustainability and environmental management concepts

Technology for a Sustainable Future United States. Office of Science and Technology. Environmental Technology Strategy Staff,1994

Strategies for Sustainable Technologies and Innovations John R. McIntyre,Silvester Ivanaj,Vera Ivanaj,2013 There is no debate about the fact that a business as usual approach is an environmentally unsustainable one Given the magnitude of the environmental challenges the world faces today extensive changes in corporate strategies and significant innovation advances are absolutely necessary if we are to avoid substantial decreases in our quality of living This set of internationally recognized authors provides some fresh and informative perspectives on this topic along with a path for a more sustainable future Mark Ferguson University of South Carolina US Corporations across the world are becoming increasingly aware of the threat of environmental degradation and the growing importance of sustainable business practices This raises a vital question How can for profit firms and other profit conscious enterprises such as government organizations implement more environmentally friendly policies without sacrificing profitability This innovative volume tackles that complex question offering detailed recommendations for making strategic technological choices that are economically advantageous ecologically sustainable and socially responsible Expert contributions examine the contextual factors that affect implementation of more sustainable technology and innovation practices offering a number of empirical methodologies to describe and explain these multidimensional influences What emerges is a compelling argument in favor of balanced strategies that merge profitability concerns with ecological consciousness allowing for controlled sustainable development and stable long term economic success Discussion of companies in both developed and emerging countries makes this book useful on a truly global scale Students and professors of business management studies and economics will find much to admire in this path breaking volume Managers policymakers and other practitioners will also benefit greatly from this book s timely and insightful recommendations

Sustainable Technology for Society 5.0 Tilottama Singh,Richa Goel,Jan Alexa Sotto,2023-12-29 This book aims to bring together valuable and novel scientific contributions that address the critical issues of sustainable building transformative tech models and other sustainability science and technology topics that have an impact on Society 5 0 This book raises awareness and shares essential policy tools on innovation and technology for sustainable development Sustainable Technology for Society 5 0 Case Studies Examples and Advanced Research Findings details the use of AI in making complex data analysis and sustainable decision making It reflects the collaboration of industry innovation and infrastructure for Society 5 0 The book elaborates on the essential tools policy and strategic implications for building a sustainable tech framework and provides insight into sustainability science and technological contemporary trends Rounding out the book is a strategic innovative model framework that works towards sustainable good health and well being for Society 5 0 Researchers scholars students and practitioners will find this book of

interest **Technology for a Sustainable Future** United States. Executive Office of the President, 1994 *Zero Waste Engineering* M. M. Khan, M. R. Islam, 2016-11-10 Is zero waste engineering possible This book outlines how to achieve zero waste engineering following natural pathways that are truly sustainable Using methods that have been developed in various areas for sustainability purposes such as new mathematical models recyclable material selection and renewable energy the authors probe the principles of zero waste engineering and how it can be applied to construction energy production and many other areas of engineering This groundbreaking new volume Explores new scientific principles on which sustainability and zero waste engineering can be based Presents new models for energy efficiency cooling processes and natural chemical and material selection in industrial applications and business Explains how green buildings and green homes can be efficiently built and operated with zero waste Offers case histories and successful experiments in sustainability and zero waste engineering Ideal for Engineers and scientists of all industries including the energy industry construction the process industries and manufacturing Chemical engineers mechanical engineers electrical engineers petroleum engineers process engineers civil engineers and many other types of engineers would all benefit from reading this exciting new volume

Technologies and Innovations for Development Jean-Claude Bolay, Alexandre Schmid, Gabriela Tejada, Eileen Hazboun, 2012-02-23 Technological innovation combined with scientific research has always constituted a driving force of transformation in our societies At the same time it is no longer simply possible to transfer technologies from the North to the South it is also essential to consider technical innovations that are adapted to the social environmental cultural and economic conditions of receiving countries and which can be appropriated by their potential users and as such prove to be real technologies for fostering development The first International Scientific Conference on the topic organized by the UNESCO Chair Technologies for Development at the Ecole Polytechnique F d rale de Lausanne in 2010 focused on its four priority sectors Technologies for Sustainable Development of Habitat and Cities ICTs for the Environment Science and Technology for Disaster Risk Reduction and Technologies for the Production of Sustainable Energy This volume reflects the main outcomes of the conference and provides some significant orientation and success criteria for the effective implementation and use of innovative technologies their aims their particular applications in the context of developing countries their accessibility for users and their appropriation by producers and stakeholders in the field of development both in the North and South thus ensuring their sustainability This kind of scientific cooperation also highlights the added values for northern researchers in sharing their knowledge and know how leading to a real win win partnership The authors gathered within this book include representatives from academic and research institutions and other organizations from diverse countries and offer a significant synergy of competences approaches and disciplines

Enjoying the Tune of Appearance: An Emotional Symphony within **Sustainable Technology Development**

In a world taken by monitors and the ceaseless chatter of instantaneous connection, the melodic beauty and mental symphony developed by the prepared term frequently disappear in to the back ground, eclipsed by the persistent noise and disturbances that permeate our lives. However, set within the pages of **Sustainable Technology Development** a stunning literary prize overflowing with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that charming masterpiece conducts readers on a mental trip, well unraveling the concealed songs and profound influence resonating within each cautiously constructed phrase. Within the depths of the poignant review, we shall discover the book is central harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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