



Sustainable Technology Development

Emiel F. M. Wubben



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, 2017 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. Provided by publisher

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 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

Zero Waste Engineering M. M. Khan, Rafiqul Islam, 2017 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

Handbook of Technological Sustainability Pankaj Bhambri, Paula Bajdor, 2024-11-13 In the context of an ever changing technological world it is crucial to prioritize the cultivation of sustainability and environmental consciousness Adopting an interdisciplinary perspective this handbook facilitates the integration of technology and sustainability by leveraging insights from many fields such as engineering environmental science economics and sociology The primary objective of this handbook is to provide a comprehensive analysis of the complex relationship between technology and the environment Handbook of Technological Sustainability Innovation and Environmental Awareness includes recent and diverse case studies from a global perspective and demonstrates the utilization of technology to achieve sustainable development across several sectors such as energy agriculture transportation and urban planning It explores innovative technologies emphasizing state of the art and developing technologies including renewable energy circular economy practices smart cities and artificial intelligence driven sustainability solutions The handbook also examines the impact of laws regulations and international agreements on the advancement or impediment of technological sustainability Written to be used as a reference this handbook highlights the ethical and moral quandaries linked to technological sustainability analyzing various topics of significance including environmental justice privacy implications in smart technology and the ramifications of artificial intelligence on employment and society It provides practical methodologies and recommendations for individuals enterprises and governmental entities to adopt and integrate sustainable technologies effectively and furnish readers with a comprehensive guide for transitioning towards a more sustainable future As it showcases perspectives from technologists sustainability professionals and policymakers that have the potential to provide a range of opinions and practical insights derived from real world experiences this handbook is a book for all individuals corporations governments researchers and anyone seeking to harness technology to advance sustainability and effectively tackle the multifaceted issues posed by our dynamic global landscape

Second-order Sustainability Alexander J.

Field,2004 **A Development Perspective For Biomass-Fuelled Electricity Generation Technologies** Roland Vincent Siemons,2002 *The Digital Age: Embrace The Smart Revolution In Consumer Electronics* Maria Bonilla, In this captivating book dive into the exciting world of the digital age and discover how it has revolutionized consumer electronics Embrace the incredible advancements of technology and become captivated by the smart revolution that has swept through our lives Throughout these pages you will embark on a journey that explores the digital realm and its impact on our day to day lives Learn about the extraordinary innovations that have transformed the way we connect communicate and consume information From smartphones that have become an extension of ourselves to highly efficient smart home devices the possibilities of the digital age are boundless Uncover the remarkable features and functionalities of cutting edge consumer electronics that have infiltrated every aspect of our lives Discover how the convergence of technology and connectivity has created a seamless user experience providing unprecedented convenience and efficiency As you delve into this thought provoking guide grasp the significant impact of the digital age on various industries such as entertainment education healthcare and more Witness the transformation of traditional methods and witness how the digital revolution has paved the way for new possibilities in these domains With a combination of informative insights and real life examples this book serves as a comprehensive resource for understanding the inner workings of consumer electronics Developments and Approaches in Science Diplomacy: Latin America and the Caribbean Echeverría-King, Luisa Fernanda,Pantović, Branislav,Pineros-Ayala, Rafael Enrique,Figueroa, Pedro,Flores-Zamora, Alejandra Fabiola,2024-08-14 Various challenges prevent many emerging economies including those within Latin America from exploring the full potential of science technology and innovation One major issue is the global need for a comprehensive understanding of science diplomacy and its role in bridging gaps in these crucial areas Existing research often overlooks these regions specific contexts and challenges leading to a knowledge chasm Developments and Approaches in Science Diplomacy Latin America and the Caribbean addresses this lack of knowledge head on offering a detailed exploration of science diplomacy in Latin America and the Caribbean and its implications for development By focusing on real world cases and practical insights this book provides a roadmap for policymakers diplomats and researchers to harness the power of science diplomacy for sustainable development Whether you re a researcher looking to deepen your understanding of science diplomacy or a policymaker seeking actionable strategies this book offers a valuable resource It highlights the importance of international engagement and collaboration in achieving development objectives particularly in the context of the scientific diaspora and emerging economies Through this lens the book offers innovative solutions and strategies applied in Latin America and other regions facing similar challenges **The Dynamics of the Eco-efficient Economy** Emiel F. M. Wubben,2000-12-20 Drawing together the fields of environmental economics environmental regulation and strategic management this study discusses the question of environmental performance versus corporate practices and finds that environmental considerations can have a positive effect on business Exploring the Impact of Extended Reality

(XR) Technologies on Promoting Environmental Sustainability Shashi Kant Gupta, Nitu Maurya, Dac-Nhuong Le, Toufik Mzili, 2025-06-11 This book offers a groundbreaking exploration of how Extended Reality XR technologies can drive environmental sustainability By integrating virtual augmented and mixed realities it provides innovative solutions to enhance understanding and inspire action on environmental issues The text is meticulously curated to cover the multifaceted applications of XR from revolutionizing environmental practices with deep learning to leveraging quantum computing for sustainable solutions It highlights the synergy between XR and artificial intelligence in optimizing supply chains and enhancing data analytics Aimed at researchers practitioners and policymakers this resource underscores the critical role of XR in environmental advocacy emphasizing its potential in effective communication and behavior change The book also delves into immersive education fostering a culture of environmental stewardship through experiential learning Ultimately it calls for interdisciplinary collaboration to address pressing environmental challenges envisioning a future where XR technologies are pivotal in safeguarding our planet

Towards an agenda of agricultural research in Europe A.

Boekestein, P. Diederer, W.M.F. Jongen, R. Rabbinge, H. Rutten, 2000-03-01 Directors of research leaders of the public debate government officials and scientific experts give their view on the future of agricultural research The priorities for the next decades in the 21st century are discussed Agriculture and consequently agricultural research are now localised in a much broader perspective The focus is on Europe but the interaction with the other parts of the world is taken into account Towards an Agenda for Agricultural Research in Europe gives a valuable overview of what is going on in Europe with regard to foresight studies and topics like sustainable development consumer orientation safety and quality of food environmental issues non food agroproduction land use the potential of biotechnology and new ways of structuring and steering of agricultural research This book is indispensable in the next coming years as a guide for all those involved in policy and decision making for agricultural research and agriculture

Global Environment Outlook 2000 United Nations

Environment Programme, 1999 This volume provides a comprehensive and detailed analysis of the conditions of the global environment highlighting key global concerns and making recommendations for policy action

Towards Environmental Innovation Systems K. Matthias Weber, Jens Hemmelskamp, 2005-08-15 The book brings together research communities from different disciplines and countries and offers an exchange about theoretical frameworks and practical experiences to guide research and policy towards environmental innovation systems The contributions selected explore new directions of research at the borderline between two established research traditions systems of innovation and environmental innovations For this purpose the book draws on recent conceptual and empirical insights as well as on policy oriented analyses It is structured according to the four main areas of interest with respect to environmental innovation systems conceptual foundations empirical experiences strategic approaches and experiences with policy instruments

Governing the Energy Transition

Geert Verbong, Derk Loorbach, 2012-03-29 The Energy Transition the inevitable shift away from cheap centralized largely

fossil based energy systems is one of the core challenges of our time This book provides a coherent and novel insight into the nature of this challenge and possible strategies to accelerate and guide such transitions It brings together prominent European scholars and practitioners from the fields of energy transition research and governance to draw attention to the current complex dynamics in the energy domain and offer elegant and provocative explanations for current crises and lock ins They identify multiple energy transition pathways that emerge and increasingly compete and emphasize the need and possibilities for novel governance By analysing the complexity of energy transition processes and the difficulties in shifting to sustainable pathways this text questions the extent to which actually governing energy transitions is already reality just an illusion or a bare necessity

Design and Development of Efficient Energy Systems Suman Lata Tripathi, Dushyant Kumar Singh, Sanjeevikumar Padmanaban, P. Raja, 2021-03-16 There is not a single industry which will not be transformed by machine learning and Internet of Things IoT IoT and machine learning have altogether changed the technological scenario by letting the user monitor and control things based on the prediction made by machine learning algorithms There has been substantial progress in the usage of platforms technologies and applications that are based on these technologies These breakthrough technologies affect not just the software perspective of the industry but they cut across areas like smart cities smart healthcare smart retail smart monitoring control and others Because of these game changers governments along with top companies around the world are investing heavily in its research and development Keeping pace with the latest trends endless research and new developments is paramount to innovate systems that are not only user friendly but also speak to the growing needs and demands of society This volume is focused on saving energy at different levels of design and automation including the concept of machine learning automation and prediction modeling It also deals with the design and analysis for IoT enabled systems including energy saving aspects at different level of operation The editors and contributors also cover the fundamental concepts of IoT and machine learning including the latest research technological developments and practical applications Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in the area of IoT and machine technology this is a must have for any library

Sustainability Made in Delft, 2006

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