

The Natural Step Towards A Sustainable Society

Towards Sustainable Development Towards a Sustainable Asia Cities Towards Sustainable Welfare States in Europe Towards a Sustainable Society From the Earth Summit to Local Agenda 21 Towards Sustainable Consumption Toward Sustainable Development Economy & Ecology: Towards Sustainable Development Working Together Towards Sustainable Development The OECD Experience Towards Sustainable Development in Industry? Towards Sustainable Development Indicators to Measure Progress (Proceedings of the Rome Conference) Towards Sustainable Land Use Aligning Biodiversity, Climate and Food Policies Towards Sustainable Management of the Boreal Forest The Urban Planet Towards Sustainable Building Towards Sustainable Development Towards Sustainable Chemical Processes Towards Sustainable Innovation Transition Towards Sustainable Mobility Oluf Langhelle Association of Academies of Science Pierre Jacquet Schoyen, Mi A. M. L. Dewan William M. Lafferty Jennifer Kent Philip A. Lawn F. Archibugi OECD Ralph Andrew Luken OECD Philip Joseph Burton Thomas Elmqvist Nicola Maiellaro Philipp Schepelmann Jingzheng Ren Sven Pastoors Harry Geerlings

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the book brings together twelve original essays on the meaning and implications of sustainable development the collection assesses the theoretical debate over the concept of sustainable development and looks at the unique experiment in applying this practically which has taken place in norway to discover how the concept can illuminate practical policy across a wide range of fields topics covered include sustainable development as a global ethics the concept of need global and generational equity the limits of nature implications for economics and the role of technology the editors outline the logic of the approach and draw together the implications of the individual studies for a more focused and consistent application of the concept

this series of books are the output of the research project called sustainable development in asia sda which was initiated by the association of academies of sciences in asia aasa they are comprised of one synthesis report which entitled towards a sustainable asia green transition and innovation and four thematic reports on natural resources energy the environment and climate change and culture from particular perspectives of agriculture they aim to 1 investigate common sustainability issues

faced by all asian countries including population increase poverty alleviation pollution control ecological restoration as well as regional problems such as water shortage in west and central asia energy security in northeast asia development model transformation in east asia 2 analyze and summarize of best practices towards sustainable development in asia 3 bring forward suggestions and policy options for promoting green transition system innovation and sustainable development of asia with best practice guidelines for a sustainable asia this series of reports for the first time systematically address the common challenges and regional problems in regard to asia s natural resources use pollution reduction and climate protection sustainable energy development and innovations for environment friendly and culture compatible agriculture they will provide handy and useful information to researchers government policy makers and the general public who have concerns about asia s sustainable development aasa is a scientific and technological organization in asia established in 2000 comprising of 26 member academies all over asia its vision is to provide a forum for the discussion of all issues relevant to science and technology development and its application on national level within asia

the twenty first century is already an urban one cities are pivotal to sustainability concerns globalization climate change food security environmental protection and innovation today s urban actors both citizens and their leaders have a major responsibility as trustees of the future their present actions will influence the shape and structure of cities so that the generation to come may live healthy and contended lives this volume takes the reader straight to the heart of how cities work and identifies contemporary trends mechanism and tools that can influence current strategies and choices the authors show that urbanization is not a problem per se for sustainable development but rather that cities in all their diversity and complexity offer solutions as well as challenges the reader will be inspired by vital analyses of the next decade s windows of opportunity for sustainable urban growth

this is an open access title available under the terms of a cc by nc nd 4 0 license it is free to read download and share on elgaronline com this seminal book addresses the critical and urgent question of what makes welfare states sustainable in the era of climate change expert authors challenge traditional perspectives on questions of sustainability which have focused on population ageing global economic turbulence and on containing current and future public social spending

this collection of in depth case studies emphasizes the diversity and inventiveness of local initiatives since the rio earth summit within different national settings from the earth summit to local agenda 21 offers a realistic counterpoint to the official monitoring and assessment procedures of national governments and international bodies it highlights the problems of assessment and policy evaluation and clearly sets out the policy stages necessary for more effective realization of local agenda 21 objectives

an understanding of the patterns and driving forces of consumption will lead to strategies to improve resource efficiency this work looks at how europe is moving to sustainable consumption the contributions come from the interacademy panel conference on science s role in formulating policy

by now most people in the ecological and environmental fields have heard of sustainable development but how many know how we go about getting there and if we are achieving it by synthesizing the many disparate elements of the field of ecological economics toward sustainable development an ecological economics approach combines analysis theory and empiricism to answer the whats whys and hows of moving towards sustainable development since the ecological economics approach to sustainable development is still a relatively new paradigm its long term success rests heavily on the formalized establishment of

the most basic and fundamental principles this volume discusses the formation of these principles and their implementation in the real world lawn establishes the ground rules by showing that development need not be achieved at the expense of ecological sustainability he presents the tools guidelines and conceptual framework necessary to move toward sustainable development filled with figures tables and illustrations toward sustainable development an ecological economics approach systematically develops a conceptual framework from which to design workable policies the author shows that development and ecological sustainability don t have to be trade offs but can be complimentary and outlines a range of economic and non economic indicators to measure performance

after a period of relative silence recent years have been marked by an upswing of interest in environmental issues the publication of the report of the world commission on environment and development on our common future 1987 has acted as a catalyst for a revival of the environmental awareness not only regarding local and daily pollution problems but also and in particular regarding global environmental decay and threats to a sustainable development in a recent study by w m stigliani et al on future environments for europe executive rep rt 15 iiasa laxenburg 1989 the environmental implications of various alternative socioeconomic development pathways with respect to eleven environmental issues that could become major problems in the future are analysed these issues include managing water resources in an era of climate change acidification of soils and lakes in europe long term forestry management and the possibility of a future shortfall in wood supply areas of europe marginalized by mainstream economic and agricultural development sea level rise chemical pollution of coastal waters toxic materials buildup and the potential for chemical time bombs non point source emissions of potentially toxic substances transportation growth versus air quality decreasing multi functionally of land owing to urban and suburban land development increasing summer demand for

electricity and the impact on air quality

the report assesses the contribution made by oecd countries both at home and internationally and brings together the main lessons learned through the organisation s extensive work on sustainable development

many developing and transition economies have not yet undertaken the policy integration measures needed to enhance the impact of industry on sustainable development in this original and insightful book national experts from chile china the czech republic pakistan tunisia turkey and zimbabwe countries which all have designated national sustainable development strategies report on the extent to which recent changes in industrial environmental and technology policies have more closely aligned industrial development with the aims of sustainable development for each country the authors critically assess a number of important topics including amongst others broad trends in sustainable development policies for promoting growth of the manufacturing sector policies and institutions for industrial environmental management efforts to encourage the use of environmentally sound technologies obstacles to enhancing the contribution of manufacturing to sustainable development and priorities for future action the results prove disappointing and reveal that none of the seven countries has yet achieved the degree of policy integration that could be characterised as an industrial component of a national sustainable development strategy compared to ten years ago industry in only two of the seven countries china and the czech republic is making any substantial contribution to socio economic development whilst attempting to reduce its negative effects on the environment however the country reports do identify some positive steps that have been taken and that other countries might adopt in their efforts to enhance the impacts of industry on sustainable development this book charts the progress towards sustainable development of

seven developing and transition economies and the consequences of industry on this objective the realistic assessment of the advances which have been made will be of particular benefit and interest to practitioners of economic development industrial economics and environmental management

the book contains the proceedings of the oecd conference that was held in rome in december 1999 it presents the wide range of initiatives and indicators that are already in place and outlines the challenges that remain in measuring progress towards sustainable development

land use is central to many of the environmental and socio economic issues facing society today this report examines on going challenges for aligning land use policy with climate biodiversity and food objectives and the opportunities to enhance the sustainability of land use systems

presenting a summary of the development in boreal forest management this book provides a progressive vision for some of the world s northern forests it includes a selection of chapters based on the research conducted by the sustainable forest management network across canada it includes a number of case histories

over 100 scientists architects journalists artists and activists address creatively the unprecedented challenges facing an urban planet this title is also available open access

in december of 1999 a conference on sustainable building was held at the polytechnic of bari italy this volume contains 15 papers

originally presented at the conference by maiellaro national research council of italy and other researchers topics include for example criteria for labeling buildings and building products as environmentally friendly bio climactic technologies in mediterranean countries and economic challenges to sustainable construction the volume is not indexed annotation copyrighted by book news inc portland or

economic performance of a country is generally being measured through gdp gross domestic product a variable that has also become the de facto universal metric for standards of living however gdp does not properly account for social and environmental costs and benefits it is also difficult to achieve sustainable decision making aiming at sustainable progress and well being if welfare is being considered from a purely financial point of view the study highlights the benefits and some of the shortcomings of gdp it serves as a helpful and practicable instrument for monetary and fiscal policies the real problem presumably is that gdp growth is too often confused with sustainable welfare growth in people s minds while there certainly is a correlation between the two this study shows that this is a highly conditional correlation void of substantial causality for gdp levels observable in the european union in order to be able to assess people s well being and general sustainable development in the sense of sustainability an alternative instrument going beyond gdp is necessary using so called swot analyses several alternative progress indicators have been assessed in the context of this study on the one hand it was analysed how far ecological and social factors can be integrated in the gdp measurements thereby difficulties arose then trying to monetise these factors as a further possibility indicators were analysed which are to replace gdp as a whole the category supplementing gdp seems to be the most realistic and acceptable option for going beyond gdp within this approach gdp is being complemented with additional environmental and or social information in order to make this kind of solution feasible the study claims the establishment of an overarching and

transparent indicator system for improving economic decision making in support of sustainable development

towards sustainable chemical processes describes a comprehensive framework for sustainability assessment design and the processes optimization of chemical engineering beginning with the analysis and assessment in the early stage of chemical products initiating this book focuses on the combination of science sustainability and process system engineering involving mathematical models industrial ecology circular economy energy planning process integration and sustainability engineering all chapters throughout answered two fundamental questions in depth 1 what tools and models are available to be used to assess and design sustainable chemical processes 2 what the core theories and concepts are to get into the sustainable chemical process fields therefore towards sustainable chemical processes is an indispensable guide for chemical engineers researchers students practitioners and consultants in sustainability related area provides innovative novel and comprehensive methods and models for sustainability assessment design and optimization and synthesis and integration of chemical engineering processes combines sustainability science with process system engineering integrates mathematical models industrial ecology circular economy energy planning process integration and sustainability engineering includes new case studies related to renewable energy resource management process synthesis and process integration

with sustainability having gained a lot of momentum over the last years and companies implementing strategies to create corporate sustainability there are lots of opportunities for innovation thus the two concepts of sustainability and innovation should not be considered separately they are closely interlinked with one another the main goal of sustainable innovation is to develop new products and technologies that have a positive impact on the company's triple bottom line to meet this aim they have to be

ecologically and economically beneficial as well as socially balanced in order to help companies to improve their sustainable innovation process practically this book is structured into five possible phases of a sustainable innovation process awareness of a sustainability problem identification definition of the problem ideation evaluation of the solutions testing enrichment of the solutions implementation of the solutions green marketing

reflecting the dynamic relationships between socio technical behaviour and change this book presents leading research on the transition process needed to achieve more sustainable transport systems focusing on making transition happen this volume looks at various aspects and factors that are involved in the transition process and their implications for transport policy making this volume brings together scholars involved in research from various disciplines and countries to discuss the relationships between policy instruments individual behaviour institutional practices and the transition towards more sustainable transport systems

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