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Transition Pathways towards Sustainability in Agriculture Edward Elgar Publishing

This open access book advocates for the Social Sciences and Humanities to be more involved in energy policymaking. It forms part of the European platform for energy-related Social Sciences and Humanities' activities, and works on the premise that crossing disciplines is essential. All of its contributions are highly interdisciplinary, with each chapter grounded in at least three different Social Sciences and Humanities disciplines. These varying perspectives come together to cover an array of issues relevant to the energy transition, including: energy poverty, justice, political ecology, governance, behaviours, imaginaries, systems approaches, modelling, as well as the particular challenges faced by interdisciplinary work. As a whole, the book presents new ideas for future energy policy, particularly at the European level. It is a valuable resource for energy researchers interested in interdisciplinary and society-relevant perspectives. Those working outside the Social Sciences and Humanities will

find this book an accessible way of learning more about how these subjects can constructively contribute to energy policy.

Dreamscapes of Modernity Springer

This book defines and charts the barriers and future of vehicle-to-grid technology: a technology that could dramatically reduce emissions, create revenue, and accelerate the adoption of battery electric cars. This technology connects the electric power grid and the transportation system in ways that will enable electric vehicles to store renewable energy and offer valuable services to the electricity grid and its markets. To understand the complex features of this emergent technology, the authors explore the current status and prospect of vehicle-to-grid, and detail the sociotechnical barriers that may impede its fruitful deployment. The book concludes with a policy roadmap to advise decision-makers on how to optimally implement vehicle-to-grid and capture its benefits to society while attempting to avoid the impediments discussed earlier in the book.

Electrification Routledge

Energy and Society is the first major text to provide an extensive critical treatment of energy issues informed by recent research on energy in the social sciences. Written in an engaging and accessible style it draws new thinking on uneven development,

consumption, vulnerability and transition together to illustrate the social significance of energy systems in the global North and South. The book features case studies, examples, discussion questions, activities, recommended reading and more, to facilitate its use in teaching. *Energy and Society* deploys contemporary geographical concepts and approaches but is not narrowly disciplinary. Its critical perspective highlights connections between energy and significant socio-economic and political processes, such as globalisation, urbanisation, international development and social justice, and connects important issues that are often treated in isolation, such as resource availability, energy security, energy access and low-carbon transition. Co-authored by leading researchers and based on current research and thinking in the social sciences, *Energy and Society* presents a distinctive geographical approach to contemporary energy issues. It is an essential resource for upperlevel undergraduates and Master's students in geography, environmental studies, urban studies, energy studies and related fields.

Managing the Transition to Renewable Energy Routledge

This open access book makes a case for a socially inclusive energy transition and illustrates how engineering and public policy professionals can contribute to shaping an inclusive energy transition, building on a socio-technical systems engineering approach. Accomplishing a net-zero greenhouse gas emissions economy in 2050 is a daunting challenge. This book explores the challenges of the energy transition from the perspectives of technological innovation, public policy, social values and ethics. It elaborates on two particular gaps in the design of public policy interventions focused on decarbonization of the energy system and discusses how both could be remedied. First, the siloed organization of public administration fails to account for the many interdependencies between the energy sector, the mobility system, digital infrastructure and the built environment. Cross-sector coordination of policies and policy instruments is needed to avoid potentially adverse effects upon society and the economy, which may hamper the energy transition rather than accelerate it. Second, energy and climate policies pay insufficient attention to the social values at stake in the energy transition. In addressing these gaps, this book intends to inspire decision makers engaged in the energy transition to embrace the transition as an opportunity to bring a more inclusive society into being.

Designing Sustainable Technologies, Products and Policies Routledge

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.

Complex Systems and Social Practices in Energy Transitions Springer Nature

This important book addresses how long term and large scale shifts from one socio-technical system to another come about,

using insights from evolutionary economics, sociology of technology and innovation studies. These major changes involve not just technological changes, but also changes in markets, regulation, culture, industrial networks and infrastructure. The book develops a multi-level perspective, arguing that transitions take place through the alignment of multiple processes at three levels: niche, regime and landscape. This perspective is illustrated by detailed historical case studies: the transition from sailing ships to steamships, the transition from horse-and-carriage to automobiles and the transition from propeller-piston engine aircraft to turbojets. This book will be of great interest to researchers in innovation studies, evolutionary economics, sociology of technology and environmental studies. It will also be useful for policy makers involved in long-term sustainability and systems transitions issues.

Green Building Transitions Springer

This volume analyzes sustainability-related innovations in the building sector and discusses how regional contexts articulate transition trajectories toward green building. It presents 'biographies' of drivers and processes of green building innovation in four case studies: Brisbane (AUS), Freiburg (GER), Luxembourg (LU), and Vancouver (CA). Two of them are relatively well known for their initiatives to mitigate climate change - particularly in the building sector, whereas the other two have only recently become more active in promoting green building. The volume places emphasis on development paths, learning processes, and innovations. The focus of the case studies is not restricted to purely technological aspects but also integrates regulatory, procedural, institutional, and other processes and routines and their influence on the variations of the building sector. The diversity of the selected case studies offers the reader the opportunity to gain a thorough understanding of how sustainability developments have unfolded in different city regions. Case study-specific catalogues of transition paths provide insights to inform policy debates and planning processes. The catalogues identify crucial innovations (technological, regulatory, etc.) and explain the factors and circumstances that have led to their success and broader acceptance in Freiburg, Vancouver, Luxembourg, and Brisbane. With the help of a number of micro case studies within each of the four city regions, the case studies also offer ground for comparison and identification of differences. The book represents the outcome of the GreenRegio project, which stands for 'Green building in regional strategies for sustainability: multi-actor governance and innovative building technologies in Europe, Australia, and Canada.' GreenRegio was a 3-year CORE-INTER research project funded by the National Research Fund Luxembourg (FNR) and the German Research Foundation (DFG).

Southeast Asian Energy Transitions Routledge

This volume, first published in 1987, is devoted to a discussion of interrelations of the economic base with the cultural, social and political structures, and of its impact on the state. The 'rentier states' of the Middle East, which derive a substantial part of their revenue from foreign sources in the form of rent, largely oil revenues, face the same basic problem, the challenge of transforming their economies to give increased strength to productive activity and rely on its progress to increase state revenue from domestic sources. This book, Volume Two in the Nation, State and Integration in the Arab World research project carried out by the Istituto Affari Internazionali, examine the issue of the modernization of rentier states' public finance, which may well entail important modifications in their domestic politics.

Technological Transitions and System Innovations Edward Elgar Publishing

This book offers an interdisciplinary discussion of the

fundamental issues concerning policies for sustainable transition to renewable energies from the perspectives of sociologists, physicists, engineers, economists, anthropologists, biologists, ecologists and policy analysts. Adopting a combined approach, these are analysed taking both complex systems and social practice theories into consideration to provide deeper insights into the evolution of energy systems. The book then draws a series of important conclusions and makes recommendations for the research community and policy makers involved in the design and implementation of policies for sustainable energy transitions.

Dilemmas of Energy Transitions in the Global South International Renewable Energy Agency (IRENA)
Energy TransitionsSpringer
Global Renewables Outlook: Energy Transformation 2050 Ashgate Publishing, Ltd.

This book provides a critical approach to research on the social acceptance of renewable energy infrastructures and on energy transitions in general by questioning prevalent principles and proposing specific research pathways and lines of inquiry that look beyond depoliticised, business-as-usual discourses and research agendas on green growth and sustainability. It brings together authors from different socio-geographical and disciplinary backgrounds within the social sciences to reflect upon, discuss and advance what we propose to be five cornerstones of a critical approach: overcoming individualism and socio-cognitivism; repoliticisations – recognising and articulating power relations; for interdisciplinarity; interventions – praxis and political engagement with research; and overcoming localism and spatial determinism: As such, this book offers academics, students and practitioners alike a comprehensive perspective of what it means to be critical when inquiring into the social acceptance of renewable energy and associated infrastructures.

The Political Economy of Clean Energy Transitions Routledge

Technological change is a central feature of modern societies and a powerful source for social change. There is an urgent task to direct these new technologies towards sustainability, but society lacks perspectives, instruments and policies to accomplish this. There is no blueprint for a sustainable future, and it is necessary to experiment with alternative paths that seem promising.

Various new transport technologies promise to bring sustainability benefits. But as this book shows, important lessons are often overlooked because the experiments are not designed to challenge the basic assumptions about established patterns of transport choices. Learning how to organise the process of innovation implementation is essential if the maximum impact is to be achieved - it is here that strategic niche management offers new perspectives. The book uses a series of eight recent experiments with electric vehicles, carsharing schemes, bicycle pools and fleet management to illustrate the means by which technological change must be closely linked to social change if successful implementation is to take place. The basic divide between proponents of technological fixes and those in favour of behavioural change needs to be bridged, perhaps indicating a third way.

Governing the Energy Transition Elsevier

This book explores how, in the wake of the Anthropocene, the growing call for urgent decarbonisation and accelerated energy transitions might have unintended consequences for energy poverty, justice and democracy, especially in the global South. *Dilemmas of Energy Transitions in the Global South* brings together theoretical and empirical contributions focused on rethinking energy transitions conceptually from and for the global South, and highlights issues of justice and inclusivity. It argues that while urgency is critical for energy transitions in a climate-changed world, we must be wary of conflating goals and

processes, and enquire what urgency means for due process. Drawing from a range of authors with expertise spanning environmental justice, design theory, ethics of technology, conflict and gender, it examines case studies from countries including Bolivia, Sri Lanka, India, The Gambia and Lebanon in order to expand our understanding of what energy transitions are, and how just energy transitions can be done in different parts of the world. Overall, driven by a postcolonial and decolonial sensibility, this book brings to the fore new concepts and ideas to help balance the demands of justice and urgency, to flag relevant but often overlooked issues, and to provide new pathways forward. This volume will be of great interest to students and scholars of energy transitions, environmental justice, climate change and developing countries. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/oa-edit/10.4324/9781003052821> has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

Energy Transitions Springer Nature

Addressing the apparent tensions between modernity and sustainability in Southeast Asia, this book offers novel insights into the global challenge of moving towards a low-carbon energy system. With an original and accessible take on social theory related to energy transitions, modernity and sustainability, Mattijs Smits argues for a reinvigorated geography of energy. He also challenges universalistic and linear assumptions about energy transitions and makes the case for 'energy trajectories', stressing embeddedness, contingency and connections between scales.

Advancing Energy Policy Routledge

Based on the research of an interdisciplinary team of sociologists, geographers and economists, this book focuses on understanding farming transitions in Europe. The book discusses the importance of understanding transition pathways towards sustainability using case studies from Bulgaria, the Czech Republic, France, Germany, Greece, Portugal and the United Kingdom. Assessing the utility of the multi-level perspective in transition theory for addressing contemporary issues, the book identifies future research needs and possible approaches, making this an essential read for researchers interested in issues of rural and agricultural change.

The Great Reconfiguration Routledge

A novel, interdisciplinary account of the global politics of producing, financing, governing and mobilising energy system transformation.

Pilot Society and the Energy Transition Cambridge University Press

This book explains how social psychological concepts can be closely integrated with sociotechnical perspectives of energy transitions. It shows the value of actor-centred analysis that acknowledges the role of individual-level processes within their wider contexts of energy supply and use. In this way, the book connects social psychological and sociological frames of analysis, preserving the value of both, to provide multi-level, analytically extended accounts of energy transitions processes.

Sociotechnical thinking is about the interactions of people and technology, including the rules, regulations and institutions involved. Such perspectives help to identify the many forms of path dependency that can make change difficult. Human behaviour plays a strong role in maintaining these path dependencies, but it can also introduce change. This book advocates a deliberately interdisciplinary research agenda that recognises the value of social psychological perspectives when seeking to create new pathways for energy supply and use. At the same time, it also demonstrates the value of sociotechnical perspectives for energy-related social psychology. Energy

Transitions and Social Psychology will be of great interest to students and scholars of energy transitions, environmental and energy psychology, sustainable development and innovation studies, as well as students and scholars of environment and energy more generally.

[Vehicle-to-Grid](#) Routledge

Dreamscapes of Modernity offers the first book-length treatment of sociotechnical imaginaries, a concept originated by Sheila Jasanoff and developed in close collaboration with Sang-Hyun Kim to describe how visions of scientific and technological progress carry with them implicit ideas about public purposes, collective futures, and the common good. The book presents a mix of case studies—including nuclear power in Austria, Chinese rice biotechnology, Korean stem cell research, the Indonesian Internet, US bioethics, global health, and more—to illustrate how the concept of sociotechnical imaginaries can lead to more sophisticated understandings of the national and transnational politics of science and technology. A theoretical introduction sets the stage for the contributors' wide-ranging analyses, and a conclusion gathers and synthesizes their collective findings. The book marks a major theoretical advance for a concept that has been rapidly taken up across the social sciences and promises to become central to scholarship in science and technology studies.

What Next for Sustainable Development? CABI

Energy justice is one of the most critical, and yet least developed, concepts associated with sustainability. Much has been written about the sustainability of low-carbon energy systems and policies - with an emphasis on environmental, economic and geopolitical issues. However, less attention has been directed at the social and equity implications of these dynamic relations between energy and low-carbon objectives - the complexity of injustice associated with whole energy systems (from extractive industries, through to consumption and waste) that transcend national boundaries and the social, political-economic and material processes driving the experience of energy injustice and vulnerability. Drawing on a substantial body of original research

from an international collaboration of experts this unique collection addresses energy poverty, just innovation, aesthetic justice and the justice implications of low-carbon energy systems and technologies. The book offers new thinking on how interactions between climate change, energy policy, and equity and social justice can be understood and develops a critical agenda for energy justice research.

Transitions to Sustainable Development Edward Elgar Publishing

The world's population is currently undergoing a significant transition towards urbanisation, with the UN expecting that 70% of people globally will live in cities by 2050. Urbanisation has multiple political, cultural, environmental and economic dimensions that profoundly influence social development and innovation. This fundamental long-term transformation will involve the realignment of urban society's technologies and infrastructures, culture and lifestyles, as well as governance and institutional frameworks. Such structural systemic realignments can be referred to as urban sustainability transitions: fundamental and structural changes in urban systems through which persistent societal challenges are addressed, such as shifts towards urban farming, renewable decentralised energy systems, and social economies. This book provides new insights into how sustainability transitions unfold in different types of cities across the world and explores possible strategies for governing urban transitions, emphasising the co-evolution of material and institutional transformations in socio-technical and socio-ecological systems. With case studies of mega-cities such as Seoul, Tokyo, New York and Adelaide, medium-sized cities such as Copenhagen, Cape Town and Portland, and nonmetropolitan cities such as Freiburg, Ghent and Brighton, the book provides an opportunity to reflect upon the comparability and transferability of theoretical/conceptual constructs and governance approaches across geographical contexts. *Urban Sustainability Transitions* is key reading for students and scholars working in Environmental Sciences, Geography, Urban Studies, Urban Policy and Planning.

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