

ROUTLEDGE STUDIES IN HUMAN GEOGRAPHY



Cities and Low Carbon Transitions

Edited by Harriet Bulkeley, Vanesa Castán Broto,
Mike Hodson and Simon Marvin



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Cities and Low Carbon Transitions presents a ground breaking analysis of the role of cities in low carbon socio technical transitions Insights from the fields of urban studies and technological transitions are combined to examine how why and with what implications cities bring about low carbon transitions The book outlines the key concepts underpinning theories of socio technical transition and assesses its potential strengths and limits for understanding the social and technological responses to climate change that are emerging in cities It draws on a diverse range of examples including world cities ordinary cities and transition towns from North America Europe South Africa and China to provide evidence that expectations aspirations and plans to undertake purposive socio technical transitions are emerging in different urban contexts

Cities and Low Carbon Transitions Harriet Bulkeley, Vanesa Castán Broto, Mike Hodson, Simon Marvin, 2010-12-14 Current societies face unprecedented risks and challenges connected to climate change Addressing them will require fundamental transformations in the infrastructures that sustain everyday life such as energy water waste and mobility A transition to a low carbon future implies a large scale reorganisation in the way societies produce and use energy Cities are critical in this transition because they concentrate social and economic activities that produce climate change related emissions At the same time cities are increasingly recognised as sources of opportunities for climate change mitigation Whether how and why low carbon transitions in urban systems take place in response to climate change will therefore be decisive for the success of global mitigation efforts As a result climate change increasingly features as a critical issue in the management of urban infrastructure and in urbanisation policies Cities and Low Carbon Transitions presents a ground breaking analysis of the role of cities in low carbon socio technical transitions Insights from the fields of urban studies and technological transitions are combined to examine how why and with what implications cities bring about low carbon transitions The book outlines the key concepts underpinning theories of socio technical transition and assesses its potential strengths and limits for understanding the social and technological responses to climate change that are emerging in cities It draws on a diverse range of examples including world cities ordinary cities and transition towns from North America Europe South Africa and China to provide evidence that expectations aspirations and plans to undertake purposive socio technical transitions are emerging in different urban contexts This collection adds to existing literature on cities and energy transitions and introduces critical questions about power and social interests lock in and development trajectories social equity and economic development and socio technical change in cities The book addresses academics policy makers practitioners and researchers interested in the development of systemic responses in cities to curb climate change

The Palgrave Handbook of Zero Carbon Energy Systems and Energy Transitions Geoffrey Wood, Vincent Onyango, Komali Yenneti, Mariana Liakopoulou, 2024-10-08 The Palgrave Handbook of Zero Carbon Energy Systems and Energy Transitions provides a comprehensive and authoritative

source of information analysis and recommendations on the multi and inter disciplinary subject of zero carbon energy systems The Handbook will advance thinking and research underlying the on going energy transition by covering a wide range of energy technologies and sources e g fossil fuels renewables low carbon energy including investigating the potential of new and alternative technologies and fuel sources and looking at the power heating cooling and transport sectors Looking at varied legal jurisdictions and governance approaches including developing and developed countries and investigating potential new approaches to achieving a zero carbon energy system Providing a broad range of theoretical and methodological approaches from a range of disciplines Inclusion of a global range of case studies from Africa Arctic Asia Australasia Europe the Middle East the Americas Central North and South and the Pacific from the international national sub national to city community level

Orchestrating Local Climate Policy in the European Union Lena Bendlin, 2019-05-13 Can we sidestep tedious climate policy negotiations and forge a coalition of the willing instead Many international organizations and scholars hope to spur local climate action by orchestration indirect and voluntary governance arrangements Lena Bendlin looks beyond the apparent success of voluntary initiatives using the example of the Covenant of Mayors often heralded as an exemplary multi level EU initiative Five in depth case studies show why how and with what difficulties local governments engage in this voluntary commitment scheme The analysis identifies durability intensity and causality as crucial building blocks for more cautious orchestration theorizing and derives recommendations for appropriate incentives and support at the regional national and international level

Renewable Energy Based Solutions Tanay Sıdkı Uyar, Nader Javani, 2022-11-01 This book discusses the main renewable energy resources along with the current challenges that make it difficult achieve 100% decarbonized energy sources It presents the perspectives of international expert authors in the field giving readers a multi dimensional view of the subject The book explores numerous approaches for a smooth transition from fossil fuels to renewable energies including those based on engineering methods as well as policies strategies and social perceptions It presents several case studies and examples from industry showcasing the potential role of renewable sources and their challenges The inclusion of both established methods and cutting edge developments will make this book of interest to academics industry professionals policy makers and graduate students alike

Artificial Intelligence of Things for Smarter Eco-Cities Simon Elias Bibri, 2024-12-30 This book takes readers on a captivating journey into the transformative role of Artificial Intelligence AI and AI of Things AIoT technologies in reshaping sustainable urban development By combining comprehensive theoretical analyses synthesized empirical evidence and practical case studies it offers pioneering interdisciplinary insights and unifying frameworks The book highlights the synergistic integration of Urban Brain UB Urban Digital Twin UDT Smart Urban Metabolism SUM and platform urbanism underscored by their collaborative potential to revolutionize the environmental management planning and governance of smarter eco cities and sustainable smart cities It leverages cutting edge technologies and data driven approaches to optimize urban systems resource efficiency and resilience

This approach provides a holistic understanding of the rapidly evolving landscape of AI and AIoT driven sustainable urban development Targeting a broad and diverse audience across multiple disciplines and fields the book aims to share state of the art research present innovative solutions and forecast future trends in urban sustainability As both a seminal reference and a valuable resource for researchers practitioners industry experts and policymakers it provides essential guidance for those engaged in driving technological innovation steering urban transformation promoting environmental sustainability or working at the crossroads of these critical areas Urban Regeneration Through Valuation Systems for Innovation

Francesca Abastante,Marta Bottero,Chiara D'Alpaos,Luisa Ingaramo,Alessandra Oppio,Paolo Rosato,Francesca Salvo,2022-09-20 This book examines the role of the evaluation models in decision making processes for the construction of circular cities in the digital revolution In particular the book explores the need for a rethinking of development models proposed by the circular economy which requires the valorization of natural social and economic capital Urban environment represents a crucial field of analysis in which applying the circular economy principles in order to steer a course towards a sustainable economy characterized by processes meant to create value instead of extracting it which put a step forward in the pathway towards a better future in terms of economic environmental and social effects and desirable outcomes In this context the design of urban regeneration processes and housing environments requires the adoption of inclusive analysis assessment models combined with the structuring and organization of public private investments that can contribute to creating positive natural and social impacts as well as economic and financial returns This fundamental paradigm shift is accentuated in the current context in which the digital revolution is reinventing the future and calls for a rethinking and reformulation of value systems in the era of technological process innovations while respecting economic natural and social ecosystems **Local Energy Communities** Gilles Debizet,Marta Pappalardo,Frédéric Wurtz,2022-09-06 This book draws

on social science analysis to understand the ongoing dynamics within and surrounding local energy communities in reliably electrified countries Belgium Canada Colombia France Germany India the Netherlands Spain Switzerland and the United Kingdom It offers a comprehensive overview of recent results and thus outlines a diversity of drivers and levers for scaling up energy communities or at least local energy sharing Analysing the main types of energy communities such as collective self consumption citizen cooperatives and peer to peer digital platforms the book does not only raise new questions for social scientists but also offers a comprehensive overview for all those contributing to the circular economy and the decentralization of energy production in inhabited areas where energy consumption is concentrated This book provides input for the ongoing debates in many European countries implementing the national law on the European directives for energy communities Furthermore without evading the antagonism between cooperative and market approaches or the contradictions between different issues the book outlines the innovative decision making tools that can facilitate the development of local energy production and sharing systems As well as being of interest to postgraduates and researchers in

the field of energy studies this book will be vital to energy professionals looking to support local energy communities decision making and design who wish to consider sociological organizational and territorial dimensions **The Routledge Research Companion to Energy Geographies** Stefan Bouzarovski, Martin J Pasqualetti, Vanesa Castán Broto, 2017-07-06 Energy has become a central concern of many strands of geographical inquiry from global climate change to the effects of energy decisions on our lives However many aspects of the black box of relationships at the energy society interface remain unopened especially in terms of the spatial underpinnings of energy production and consumption within nations cities and regions Debates focusing on the location and nature of energy flows frequently fail to consider the multiple geographical networks that illustrate and explain the distribution of fuels and services around the world Providing an integrated perspective on the complex interdependencies between energy and geography The Routledge Research Companion to Energy Geographies offers a timely conceptual framework to study the multiple facets of energy geography including security space and place planning environmental science economics and political science Illustrating how a geographic approach towards energy can aid decision making pathways in the domains of social justice and environment this book provides insights that will help move the international community toward greater cooperation stability and sustainability

Handbook of Urban Geography Tim Schwanen, Ronald van Kempen, 2019 This collection brings together the latest thinking in urban geography It provides a comprehensive overview of topical issues and draws on experiences from across the world Chapters have been prepared by leading researchers in the field and cover themes as diverse as urban economies inequalities and diversity conflicts and politics ecology and sustainability and information technologies The Handbook offers a valuable resource for students and researchers interested in cities and the urban in geography and across the wider social sciences

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