



ROUTLEDGE RESEARCH GLOBAL ENVIRONMENTAL CHANGE

A Sociology of Energy, Buildings and the Environment

Simon Guy and Elizabeth Shove

Sociology Of Energy Buildings And The Environment Constructing Knowledge Designing Practice

Chris E Miller



Sociology Of Energy Buildings And The Environment Constructing Knowledge Designing Practice:

The Sociology of Energy, Buildings and the Environment Simon Guy, Elizabeth Shove, 2014-02-04 Bringing the social sciences to the heart of environmental debate this book demonstrates the relevance of sociological analysis for environmentally critical issues like energy consumption Focusing on energy efficiency and the built environment the authors take a critical look at the production and use of technical knowledge and energy related expertise Challenging the conventional assumptions of scientists and energy policy makers the book outlines a new role for social research and a new paradigm for environmental policy

The Sociology of Energy, Buildings and the Environment Simon Guy, Elizabeth Shove, 2014-02-04 Bringing the social sciences to the heart of environmental debate this book demonstrates the relevance of sociological analysis for environmentally critical issues like energy consumption Focusing on energy efficiency and the built environment the authors take a critical look at the production and use of technical knowledge and energy related expertise Challenging the conventional assumptions of scientists and energy policy makers the book outlines a new role for social research and a new paradigm for environmental policy

Planning and Environmental Protection Chris E Miller, 2001-09 This collection of essays examines the roles which land use planning can play in the protection of the environment The subjects covered range from traditional concerns like pollution nuisance and contaminated land to biodiversity and the pursuit of sustainable development which forms the defining element of current environmental policy across the European Community and in most other developed economies Environmental assessment is discussed along with the succession of public law actions Twyford Down included by environmental activists which were necessary to convince the English courts of the full implications and the direct effect of the EC Directive 85 337 The later chapters become progressively more concerned with the planning system as the forum of negotiation and more participatory approaches as distinct from fiscal instruments and command and control regulation to encouraging sustainability The contributors represent a variety of academic disciplines law geography planning environmental management offering complementary insights into the planner's role in allocating land uses so as to minimise waste generation and energy consumption as well as maximising local amenity

Sustainable Architectures Simon Guy, Steven A. Moore, 2005 As buildings are responsible for fifty per cent of CO₂ emissions their design has become the focus of intense technical scrutiny Knowing how to build more technically efficient or ecologically responsible buildings and being able to assemble the social resources to do so requires different forms of knowledge and practice There is wide contestation over the optimal pathways to greener buildings design and great diversity in practices of sustainable architecture This volume brings together leading researchers from across the European Union and North America both to illustrate the diversity of practice and to provide a critical commentary on this key debate The reader is provided with an introduction to competing perspectives on the sustainable architecture debate international exemplars of differing practice and an overview of new theoretical and methodological resources for understanding and meeting the

conceptual social and technical challenges of sustainable architecture *Architectural Design and Regulation* Rob Imrie, Emma Street, 2011-01-21 From the earliest periods of architecture and building architects actions have been conditioned by rules regulations standards and governance practices These range from socio cultural and religious codes seeking to influence the formal structure of settlement patterns to prescriptive building regulations specifying detailed elements of design in relation to the safety of building structures In *Architectural Design and Regulation* the authors argue that the rule and regulatory basis of architecture is part of a broader field of socio institutional and political interventions in the design and development process that serve to delimit and define the scope of the activities of architects The book explores how the practices of architects are embedded in complex systems of rules and regulations The authors develop the understanding that the rules and regulations of building form and performance ought not to be counterpoised as external to creative processes and practices but as integral to the creation of well designed places The contribution of *Architectural Design and Regulation* is to show that far from the rule and regulatory basis of architecture undermining the capacities of architects to design they are the basis for new and challenging activities that open up possibilities for reinventing the actions of architects **The Oxford Handbook of Energy and Society** Dr. Debra J. Davidson, Dr. Matthias Gross, 2018-07-11 The *Oxford Handbook of Energy and Society* offers a collection of contemporary sociological research highlighting the growing instability and disruptions associated with fossil fuel dependence and the emerging challenges and innovations associated with a transition away from fossil fuels Regional case studies of different energy resources from around the world are featured as are the roles of politics markets technology social movements and consumers all contributing to a complex systems perspective on the uncertain future of energy society relations **Mainstreaming passive houses** Johan Niskanen, 2018-11-20 The passive house concept has become increasingly popular in the building sector in the last twenty years and is deemed to play an important role in aligning the housing sector with climate and environmental policy objectives However for such buildings to play this part they need to be more widespread more common and more accepted by mainstream actors and institutions The deployment of passive houses involves changes and adaptations in different parts of society It involves changes in institutional and organisational set ups and it involves market and regulatory changes Previous research on passive houses has focused on demonstration projects or has taken for granted that a dissemination will lead to a full scale transition of the building sector This puts undue focus on emerging actors and technologies emerging in isolation This thesis investigates the wider deployment of passive houses with a focus on mainstreaming This means that focus is on different social arenas where the deployment of passive houses is negotiated between multiple actors This thesis contributes to a comprehensive picture of how passive house deployment is shaped through a study of attempts to mainstream these buildings in Sweden It shows how such attempts have been partially successful in specific companies and regions but it also shows how a normalization of these buildings has been limited due to market regulatory and political developments

Possivhuskonceptet har blivit allt populärare under de senaste tjugo åren och bedöms spela en viktig roll för att anpassa bostadssektorn till klimat och miljöpolitiska mål för att sådana byggnader ska kunna göra skillnad mot de dockfästen i utbredning och bli accepterade av etablerade aktörer och institutioner. Utbyggnaden av passivhus innebär förändringar och anpassningar i olika delar av samhället. Dessa innefattar institutionella och organisatoriska förändringar samt marknadsförändringar och en anpassad lagstiftning. Tidigare forskning har framfört att studerat demonstrationsprojekt eller har tagit för givet att en spridning av passivhus kommer att leda till en fullskalig omställning av byggsektorn. Detta ligger otillräckligt fokus på nya aktörer och tekniker som utvecklats utan bredare socialt rankning. Denna avhandling studerar utbyggnaden av passivhus med fokus på mainstreaming. Det innebär att fokus ligger på olika sociala arenor där spridningen av passivhus förhandlas mellan nya och etablerade aktörer. Avhandlingen bidrar till att presentera en övergripande bild av hur passivhusutbyggnad tar form genom en studie av försök att sprida dessa byggnader i Sverige. Avhandlingen visar hur sådana försök delvis har lyckats i specifika företag och regioner men den visar också hur en normalisering av dessa byggnader har varit begränsad på grund av marknads, lagstiftnings och politiska aspekter.

Renewable Energy and the Public Patrick Devine-Wright, 2014-10-14 Throughout the world the threat of climate change is pressing governments to accelerate the deployment of technologies to generate low carbon electricity or heat. But this is frequently leading to controversy as energy and planning policies are revised to support new energy sources or technologies e.g. offshore wind, tidal, bioenergy or hydrogen energy and communities face the prospect of unfamiliar often large scale energy technologies being sited near to their homes. Policy makers in many countries face tensions between streamlining planning procedures engaging with diverse publics to address what is commonly conceived as NIMBY (not in my back yard) opposition and the need to maintain democratic participatory values in planning systems. This volume provides a timely international review of research on public engagement in contexts of diverse innovative energy technologies. Public engagement is conceived broadly as the interaction between how developers and other key actors engage with publics about energy technologies including assumptions held about the methods used such as the provision of financial benefits or the holding of deliberative events and how individuals and groups engage with energy policies and projects including indirectly through the media and directly through emotional and behavioural responses. The book's contributors are leading experts in the UK, Europe, North and South America and Australia drawn from a variety of relevant social science disciplinary perspectives. The book makes a significant contribution to our existing knowledge as well as providing interested professionals, policymakers and members of the public with a timely overview of the critical issues involved in public engagement with low carbon energy technologies.

Emerging Research in Sustainable Energy and Buildings for a Low-Carbon Future Robert J. Howlett, John R. Littlewood, Lakhmi C. Jain, 2021-02-06 This book contains an introduction and 20 studies each describing a recent research investigation in the area of sustainable and resilient buildings, built environment infrastructure and renewable energy. Contributions are from many

different countries of the world and on a range of topics representing a sample of research within the sustainable energy and buildings field The book begins with chapters on the sustainable design of buildings followed by descriptions of issues relating to the renovation restoration and reconstruction of existing buildings or in one case a railway wagon The next part of the book covers factors that form barriers or impediments to low or zero carbon buildings followed by studies of issues relating to policy and certification There then follow four chapters on various topics related to sustainable buildings undergraduate courses insurance issues biophilia relating to buildings and thermal conductivity measurement There are several chapters relating to renewable energy followed by two chapters with a sustainable transport theme one relating to electric vehicles and the other about a sustainable road infrastructure The final chapter is on the manufacture of sustainable building components for the UK housing sector The book is of use to engineers scientists researchers practitioners academics and all those who are interested to develop and use sustainability science and technology for the betterment of our planet and humankind and to mitigate climate change reality

Sociology of Interdisciplinarity Antti Silvast,Chris Foulds,2021-12-03 This Open Access book builds upon Science and Technology Studies STS and provides a detailed examination of how large scale energy research projects have been conceived and with what consequences for those involved in interdisciplinary research which has been advocated as the zenith of research practice for many years quite often in direct response to questions that cannot be answered or even preliminarily investigated by disciplines working separately It produces fresh insights into the lived experiences and actual contents of interdisciplinarity rather than simply commentating on how it is being explicitly advocated We present empirical studies on large scale energy research projects from the United Kingdom Norway and Finland The book presents a new framework the Sociology of Interdisciplinarity which unpacks interdisciplinary research in practice This book will be of interest to all those interested in well functioning interdisciplinary research systems and the dynamics of doing interdisciplinarity including real ground level experiences and institutional interdependencies

Challenging Consumption Anna R. Davies,Frances Fahy,Henrike Rau,2014-05-16 Sustainable consumption is a central research topic in academic discourses of sustainable development and global environmental change Informed by a number of disciplinary perspectives this book is structured around four key themes in sustainable consumption research Living Moving Dwelling and Futures The collection successfully balances theoretical insights with grounded case studies on mobility heating washing and eating practices and concludes by exploring future sustainable consumption research pathways and policy recommendations Theoretical frameworks are advanced throughout the volume especially in relation to social practice theory theories of behavioural change and innovative visioning and backcasting methodologies This groundbreaking book draws on some conceptual approaches which move beyond the responsibility of the individual consumer to take into account wider social economic and political structures and processes in order to highlight both possibilities for and challenges to sustainable consumption This approach enables students and policy makers alike to easily

recognise the applicability of social science theories **If Classrooms Matter** Jeffrey R. Di Leo, Walter R. Jacobs, 2004 First Published in 2004 Routledge is an imprint of Taylor Francis an informa company **Energy Efficiency** Fereidoon Sioshansi, 2013-02-14 Energy Efficiency Towards the End of Demand Growth is a detailed guide to new energy efficiency technologies and policy frameworks affecting the profitability of efficiency projects The contributions drawn together by F P Sioshansi feature insights from recognized thought leaders detailed examinations of evolving technologies and practical case studies yielding best practices for project planners implementers and financiers This volume challenges the more is better paradigm in energy production examining efficiency technologies and measurement across the supply chain Comparative financial analysis of efficiency vs increased generation Case studies from four continents highlight the examples of successful technologies and projects Explains how existing and developing regulatory frameworks impact cost and implementation

Philosophy and Design Pieter E. Vermaas, P.A. Kroes, Andrew Light, Steven Moore, 2007-12-05 This volume provides the reader with an integrated overview of state of the art research in philosophy and ethics of design in engineering and architecture It contains twenty five essays that focus on engineering designing in its traditional sense on designing in novel engineering domains and on architectural and environmental designing This volume enables the reader to overcome the traditional separation between engineering designing and architectural designing **Governing for Sustainable Urban Development** Yvonne Rydin, 2012-03-29 Achieving urban sustainability is amongst the most pressing issues facing planners and governments This book is the first to provide a cohesive analysis of sustainable urban development and to examine the processes by which change in how urban areas are built can be achieved The author looks at how sustainable urban development can be delivered on the ground through a comprehensive analysis of the different modes of governing for new urban development Governing for Sustainable Urban Development considers a range of policy tools that influence urban development and that constitute different modes of governing provides an innovative conceptual emphasis on learning within governing processes draws on a wide range of existing research policy and literature together with case study material focussing on London is above all concerned with demonstrating how sustainable urban development can be delivered in practice This title be essential reading for students academics and professionals in planning urban design and architecture world wide working to achieve sustainability **Eco-architecture** C. A. Brebbia, 2006 Unlike the mechanistic buildings it replaces Eco Architecture is in harmony with nature including its immediate environs Eco Architecture makes every effort to minimise the use of energy at each stage of the building s life cycle including that embodied in the extraction and transportation of materials their fabrication their assembly into the building and ultimately the ease and value of their recycling when the building s life is over Featuring papers from the First International Conference on Harmonisation between Architecture and Nature the text brings together papers of an inter disciplinary nature and will be of interest to engineers planners physicists psychologists sociologists economists and other specialists in addition to architects Featured

topics include Historical and Philosophical aspects Ecological and Cultural Sensitivity Human Comfort and Sick Building Syndrome Energy Crisis and Building Technologies Carbon Neutral Design Alternative Sources of Energy wind solar wave geothermal etc Design with Nature Design with Climate Siting and Orientation Re use of Brownfield Sites Material Selection Minimal Transportation Approaches and use of Indigenous Materials Life Cycle Assessment of Materials Design by Passive Systems Conservation and Re use of Water Building Operation and Management Applications in Different Building Types Regulations and Contracts

Governing Technology for Sustainability Joseph Murphy, 2012-06-25 In a world of growing complexity and dwindling resources the relationship between technology and sustainability is a pressing issue of concern at the highest levels This book improves our understanding by examining the ways that people technology and governance shape each other with implications for sustainability It is the first book to link technology studies and governance research to this problem Contributions from leading environmental social scientists are included with each chapter reporting on new research and tackling complex but vital issues Drawing on examples such as wave and tidal power wind power micro generation community waste recycling and eco housing the book provides powerful new insights into the governance of technology for sustainability A detailed introduction and conclusion discuss existing research directions and identify the contribution that the book makes in advancing our understanding of the people technology governance nexus and its implications for sustainability This is essential reading for all those in academia government and industry working at the critical interface between how we develop deploy and govern technology in the pursuit of sustainability

Housing Sustainability in Low Carbon Cities Ralph Horne, 2017-09-08 Housing affordability urban development and climate change responses are great challenges that are intertwined yet the conceptual and policy links between them remain under developed Housing Sustainability in Low Carbon Cities addresses this gap by developing an interdisciplinary approach to urban decarbonisation drawing upon more established yet quite distinctive fields of built environment policy and design housing and studies of social and economic change Through this approach policy and practices of housing affordability equity energy efficiency resilience and renewables are critiqued and alternatives are presented Drawing upon international case studies this book provides a unique contribution to interdisciplinary urban and housing studies discourses and practices in an era of climate change This book is recommended reading on higher level undergraduate and taught postgraduate courses in architecture urban studies planning built environment geography and urban studies It will also be directly valuable to housing and urban policy makers and sustainability practitioners

Environment and the City Joe Ravetz, Clive George, Joe Howe, 2004-07-15 For the first time at the beginning of the twenty first century urban dwellers outnumber rural residents and this trend is set to continue Consequently one of the most pressing issues of our time is how to square the social and economic development of cities with their environmental limits and those of the wider environment The theme of the environment and city is topical at every level from the politics of global trade to local community networks Environment and

the City looks at the evolution of cities in the developed and the developing world and the implications for resource consumption and environmental impacts. It takes a cross cutting approach with new thinking on multiple geographies, the configuration of networks, exclusion, consumption, risk and ecological footprint. Urban environmental themes and their related social, economic and political agendas are outlined. In turn, the environmental impacts and environmental agendas relating to key sectors of the urban economy are discussed. The global context to such issues is then explored before the practical tools and methods of urban environmental management are investigated. The theme of the sustainable city emerges from this, not so much as a standard menu but as a learning process between all sections of society. This book, a valuable resource, provides a concise, accessible route map for all students interested in the environmental issues emanating from our urban society. Written to aid student understanding, the easily navigable text features boxed practical examples, discussion points, signposts to reading and websites and a glossary.

The future of planning Yvonne Rydin, 2013-09-11. This timely book provides a fresh analysis of the limitations of the growth dependence planning paradigm and considers alternative urban development models, ways of protecting and enhancing existing low value land uses and means of managing community assets within the built environment.

Reviewing **Sociology Of Energy Buildings And The Environment Constructing Knowledge Designing Practice:** Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Sociology Of Energy Buildings And The Environment Constructing Knowledge Designing Practice**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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