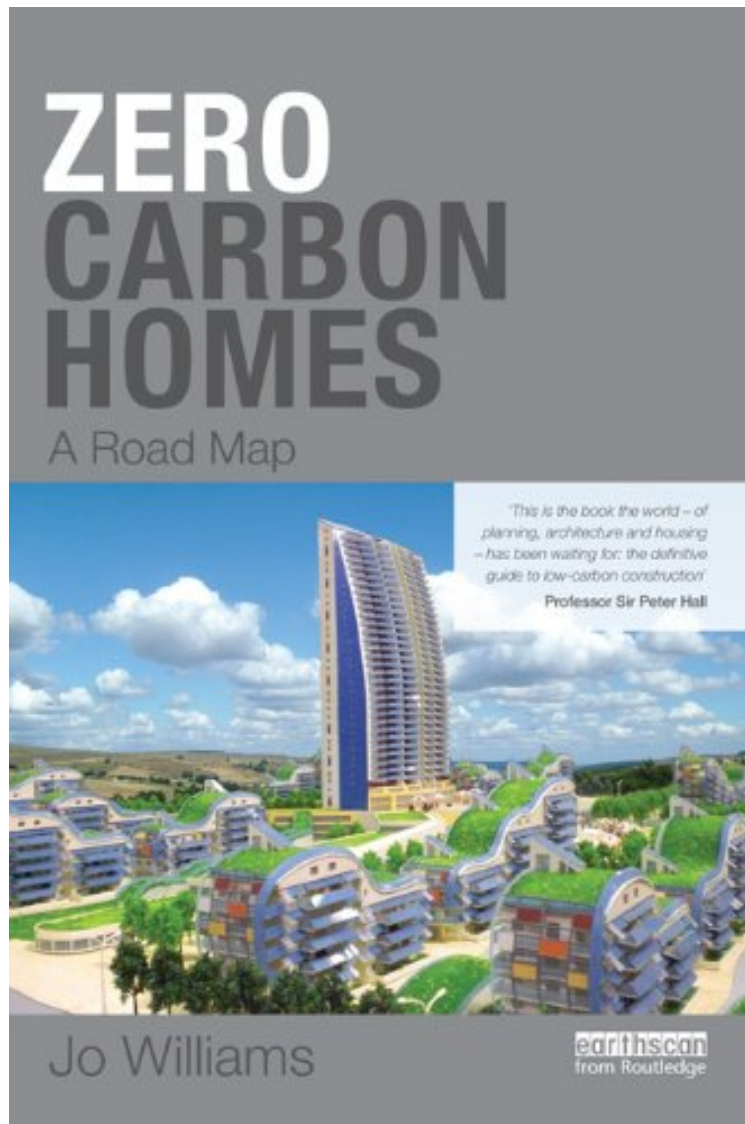


(Mobile book) Zero-carbon Homes: A Road Map

Zero-carbon Homes: A Road Map

Joanna Williams

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Joanna Williams : Zero-carbon Homes: A Road Map before purchasing it in order to gauge whether or not it would be worth my time, and all praised Zero-carbon Homes: A Road Map:

Housing is a major contributor to CO2 emissions in Europe and America today and the construction of new homes offers an opportunity to address this issue. Providing homes that achieve "zero carbon", "carbon neutral", "zero-net energy" or "energy-plus" standard is becoming the goal of more innovative house-builders globally, whilst energy providers seek to decarbonise the energy supply to new and existing development. Various new technical systems for

achieving these goals are beginning to emerge. For example the passive house whose energy requirement for space heating and cooling is almost zero; the smart grid that has revolutionized the management of energy, whilst enabling the connection of small-scale, renewable energy producers and electric vehicles to the grid; or the European super-grid which will enable zero carbon energy to be generated in the Sahara desert and stored in Norway. This book explores the diverse approaches that are being adopted around the world to deliver zero carbon homes and the different societal systems and geographic circumstances in which they have developed. It postulates a roadmap for delivering zero carbon homes, together with a toolbox approach for policy and practice to suit particular national and local circumstances. A series of case studies are presented that offer lessons for delivering zero carbon homes. These examples are also used to demonstrate how prototype systems can move into the mainstream. The book highlights some of the instruments and mechanisms that could be used to support this transformation and addresses the wider implications of introducing these innovative systems in terms of industry, lifestyle and urban form.

"This is the book the world of planning, architecture and housing has been waiting for: the definitive guide to low-carbon construction" – Sir Peter Hall "The book achieves the objective of drawing a road map towards low/zero carbon houses successfully. The book is illustrated with more than 100 tables, charts and graphs. It also contains more than 20 coloured photographs and drawings. The book is useful to professionals in urban planning, architecture, construction, and energy sector and students in these areas." – Yonca Huumlrol, Open House International About the Author Jo Williams is a Senior Lecturer in sustainable development at University College London, where she is the Director of the Sustainable Urbanism Masters Programme. She is also the Principal Investigator for the Zero Carbon Homes project and is an expert contributor to various international advisory bodies in the field of sustainable development.