

# SUSTAINABILITY IN THE BUILT ENVIRONMENT



# Evaluation Of The Built Environment For Sustainability

**Peter S. Brandon, Patrizia  
Lombardi, Geoffrey Q. Shen**



## **Evaluation Of The Built Environment For Sustainability:**

*Evaluation of the Built Environment for Sustainability* Vincenzo Bentivegna, P.S. Brandon, Patrizia Lombardi, 2003-09-02 Sustainability in the built environment is a major issue facing policy makers planners developers and designers in the UK Europe and worldwide The measuring of buildings and cities for sustainability becomes increasingly important as pressure for green sustainable development translates into policy and legislation The problems of such measurement and evaluation are presented by the authors in contributions which move from the general to the particular e g from a general framework for an environmentally sustainable form of urban development to a specific input output model application to environmental problems The book is divided into three parts the first covers city models and sustainable systems research programmes environmental policies green corporations and collaborative strategies to make urban development more sustainable part two discusses the problems of evaluating the built environment in planning and construction covering economic and environmental methods and construction development and regeneration processes part three illustrates a number of applications using different approaches and techniques and referring to a range of environmental aspects of the natural and built environment from maintaining historic buildings to transport management and air pollution monitoring

**Evaluating Sustainable Development in the Built Environment** Peter S. Brandon, Patrizia Lombardi, 2010-12-01 The first edition was extremely well received providing an introduction and insight to this important topic in a comprehensive yet easy to read form It was chosen to be issued to the representatives of the organizations from the G8 and G20 countries attending the University Summit held in Turin in 2009 which addressed the issue of how education and research can assist sustainable development The second edition completely updated to reflect the significant advances and new insights that have been made since publication of the first edition focuses on two main issues Facilitating a dialogue between all stakeholders so that the complexity of the problem can be exposed structured and communicated Understanding how to assess progress in sustainable development It continues to provide coherent guidance on the techniques that can be used to assess sustainable development in a rigorous manner The approach is introduced using illustrations and case studies together with follow up references It remains the ideal starting point for those trying to get a handle on the subject and for those who wish to examine a structured and systematic approach to the evaluation of sustainable development in the built environment

Future Challenges in Evaluating and Managing Sustainable Development in the Built Environment Peter S. Brandon, Patrizia Lombardi, Geoffrey Q. Shen, 2017-04-05 Future Challenges in Sustainable Development within the Built Environment stimulates and reinterprets the demands of Responsible and Sustainable Development in the Built Environment for future action and development It examines the methods of evaluation the use of technology the creation of new models and the role of human factors for examining and developing the subject over the next twenty years

Sustainability Assessment of Built Environment Gopal Alapure, Abraham George, 2025-02-18 This book focuses on developing a holistic

sustainability assessment model for built environment that can help in identifying sustainability issues and parameters for the built environment. It covers a wide range of sustainable built form issues in the local and regional contexts. The volume identifies significant built form sustainability indicators, criteria and sub-criteria while highlighting the importance of incorporating sustainability principles and assessment of sustainability. It also discusses the data collection process for defining priorities of sustainability parameters using the Analytic Hierarchy Process (AHP) technique. The book presents information to obtain fuzzy weights to classify assessed built form. The chapters in this book explain the development of an integrated built environment assessment system for infrastructure projects. This book will be of interest to students, teachers and researchers of planning, architecture, construction, urban studies, interior design, urban planning and civil engineering. It will also be useful for architects, planners, civil engineers, interior designers, builders, developers, green building assessors and those interested in the sustainable assessment built environment and urban development.

**The Sustainable Built Environment** Begum Sertyesilisik, Ahmed Al Shamma'a, 2015-11-27. The text adopts an interdisciplinary approach to address the huge challenges in creating a sustainable built environment. In a broad survey of critical issues, it assesses procurement, cost modelling and management, sustainable buildings, low and zero carbon technologies, sustainability in utilities and the law.

**Future Challenges in Evaluating and Managing Sustainable Development in the Built Environment** Peter S. Brandon, Patrizia Lombardi, Geoffrey Q. Shen, 2024-09-23. Future Challenges in Sustainable Development within the Built Environment stimulates and reinterprets the demands of Responsible and Sustainable Development in the Built Environment for future action and development. It examines the methods of evaluation, the use of technology, the creation of new models and the role of human factors for examining and developing the subject over the next twenty years.

**Evaluating Sustainable Development** Peter S. Brandon, Patrizia Lombardi, 2009-02-18. Sustainable development has been characterised by an emphasis on environmental issues and an ad hoc approach to structuring the subject which hinders the development of knowledge in a systematic way. The built environment contributes significantly to the environment but is also one of the major factors in determining whether a community is sustainable in the longer term. A structure is required which aids definition, provides a common set of values, establishes measurement methods to define progress and suggests a management system and decision protocol which enables practitioners to engage and use the resultant structures and information. This book provides a suggested structure in which all aspects of sustainable development can be included together with a set of evaluation techniques which can be used within the structure to provide assistance to decision making.

**Design Economics for the Built Environment** Herbert Robinson, Barry Symonds, Barry Gilbertson, Ben Ilozor, 2015-03-26. The drive towards environmentally friendly buildings and infrastructure has led to a growing interest in providing design solutions underpinned by the core principles of sustainability to balance economic, social and environmental factors. Design Economics for the Built Environment: Impact of sustainability on project evaluation presents new directions reflecting the need to

recognise the impact of climate change and the importance of sustainability in project evaluation The aim is to provide a new approach to understanding design economics in the context of the changing policy environment legislative and regulatory framework and increasing economic environmental and social pressure as result of the sustainability agenda The book follows a structured approach from theories and principles in the earlier chapters to the practical applications and emerging techniques focusing on value and social economic and environmental considerations in making design decisions It starts with the policy context building on various theories and principles such as capital cost value of design and resource based theories the new rules of measurement NRM to explore cost planning the relationship between height and costs key socio economic and environmental variables for design appraisal eco cost value ratio EVR whole life theory and the treatment of carbon emission as external costs productivity and efficiency fiscal drivers and legal framework for carbon reduction procurement and allocation of risks in contracts Case studies practical examples and frameworks throughout reinforce theories and principles and relate them to current practice The book is essential reading for postgraduate students in architecture building and quantity surveying and is also a valuable resource for academics consultants and policy makers in the built environment

Sustainable Urban Development Volume 1 Stephen Curwell, Mark Deakin, Martin Symes, 2005-09-09 Based on original research this first volume of a set of groundbreaking new books sets out a framework for analyzing sustainable urban development and develops a set of protocols for evaluating the sustainability of urban development Protocols included are for sustainable urban planning urban property development urban design the construction operation and use of buildings Using these protocols the book goes on to provide a directory of environmental assessment methods for evaluating the sustainability of urban development and also maps out how these assessment methods are being transformed to evaluate the environmental economic and social sustainability of urban development Web based applications are increasingly being used to support this transformation and the contributors deftly cover this application and issues concerning the use of information and communication technologies for evaluating the sustainability of urban development are also dealt with With its multidisciplinary approach Sustainable Urban Development presents key new material for postgraduates and professionals across the built environment

*Sustainable Urban Development: The environmental assessment methods* S. R. Curwell, Mark Deakin, Martin Symes, 2005 This second title of a three volume series based on research by the influential BEQUEST network examines the methodology of environmental assessment providing unique insight into critical aspects to sustainable urban development

*Integrated Futures and Transport Choices* Julian Hine, John Preston, 2018-02-06 This title was first published in 2003 The UK transport White Paper A New Deal for Transport and new Transport Acts for England Wales and Scotland have indicated and defined the future direction and policy agenda of national governments The need for integrated transport raises key policy issues among which are the importance of sustainability and the integration of transport policy with other areas of public policy such as social exclusion and health The idea of this direction in policy has

implications for the changing nature of work traveller information interchange and public transport freight distribution and the use of new technology This volume also examines key areas of policy and regulation which are developing as a result of the White Paper and the new Transport Acts The volume brings together leading UK academics in the field of transport studies to discuss and reflect on these issues and the state of transport policy in the UK within this new and developing policy framework

**Sustainable Practices in the Built Environment** Craig Langston,2008-09-10 Sustainability is a key issue and its impact on the construction industry as one of the major users of the Earth s resources is starting to take hold This book deals with sustainability as it affects the construction industry looking at the techniques and issues which designers engineers planners and construction managers will have to deal with in their day to day activities It covers methods of analysis such as environmental impact assessment and cost benefit analysis as well as topics on design and energy regulation and conservation The book is an important introduction to the subject for senior undergraduate and postgraduate students Given the importance and novelty of the subject professionals in the construction industry will also find the book valuable

*Proceedings of the International Conference on Smart and Sustainable Built Environment (SASBE 2024)* Ali GhaffarianHoseini,Amirhosein Ghaffarianhoseini,Farzad Rahimian,Mahesh Babu Purushothaman,2025-04-19 This book presents peer reviewed articles from the International Conference of Sustainable Development and Smart Built Environments SDSBE2024 held from 6-8Nov at Auckland New Zealand It encapsulates cutting edge research in Sustainable Development and Smart Built Environments featuring global scholars Encompassing diverse themes the book explores sustainable urban development governance and policy emphasizing urban greening and climate resilience It delves into innovative approaches for sustainable transport intelligent infrastructure and community well being The integration of Data Science AI and IoT for optimizing built environments is a focal point alongside advancements in digital twins and OpenBIM Social aspects including equity and indigenous perspectives are explored along with health considerations in urban settings The proceedings serve as a comprehensive resource reflecting the multifaceted advancements driving sustainable and smart urban futures

**Sustainable Practices in the Built Environment** Craig A. Langston,Grace K. C. Ding,2001 Sustainable Practices in the Built Environment is an important introduction to the subject for senior undergraduate and postgraduate students Given the importance and novelty of the subject professionals in the construction industry will also find the book valuable Jacket

**Sustainable Urban Development: A toolkit for assessment** S. R. Curwell,Mark Deakin,Martin Symes,2005 This book outlines the BEQUEST toolkit that provides the means by which to link the protocols with the assessment methods currently available to evaluate the sustainability of urban development

**Rethinking Pathways to a Sustainable Built Environment** Cheng Siew Goh,Heap-Yih Chong,2024-12-27 This book aims to provide insights into rethinking pathways in the transition to sustainable built environments in the wake of the pandemic and COP26 It examines our abilities and capabilities to leverage resources to the best use for achieving the universal sustainable development goals The goal is to

identify fresh thinking to make the goals of sustainable built environment more achievable particularly to align with the national and international targets set by COP26 The book will help address the need for mainstreaming sustainability into the core of decision making of buildings and infrastructure projects throughout the life cycle from planning to design construction and operation This book consolidates a comprehensive body of knowledge of sustainable development that will equip industry professionals educators scholars and students with knowledge and skills to deliver sustainability practice within the built environment Through theoretical underpinning and presentation of best practices the book offers solutions to advance the development of sustainability practices in the context of the built environment The book covers the following content Sharing of best practice and case studies Review of Sustainability Contemporary Practices in the Built Environment Innovative Net Zero Carbon neutral solutions and strategies Sustainable building assessment and certification systems Key Sustainability Deliverables in the Built Environment Social Transition towards Sustainability The book will be of value to interested scholars and practitioners who are involved in sustainable design and engineering practice within the built environment

**Economic Studies on Food, Agriculture, and the Environment** Maurizio Canavari, Paolo Caggiati, K. William Easter, 2012-12-06 This book contains a selection of the papers presented at the Joint Conference on Food Agriculture and the Environment which was held in Bologna Italy on June 12 14 2001 This was the seventh gathering of a biennial meeting born from a cooperation agreement between US and Italian academic and research institutions This round of the Conference was organized in the Faculty of Agriculture in Bologna by the Dept of Agricultural Economics and Engineering DEIAgra and the CNR Land and Agri System Management Research Centre GeST A CNR of Bologna There were two main reasons for the choice of this location first the Conference was dedicated to Maurizio Grillenzoni and Franco Alvisi two colleagues and friends who passed away in recent years and who committed themselves and played an important role in developing the collaboration agreement and promoting the past Conferences second in the year 2000 the Faculty of Agriculture in Bologna celebrated its first centennial and this Conference was part of a wide set of events organized to highlight the relevant role of the Faculty in the research activity both at an Italian and international level The Conference papers were articulated both in plenary and concurrent sessions dealing with key topics for agricultural economists A structure similar to the Conference was adopted for grouping the papers into the four sections contained in this book food nutrition and quality focusing i e

**Expanding Boundaries: Systems Thinking in the Built Environment** Guillaume Habert, Arno Schlueter, 2016-08-15 Consuming over 40% of total primary energy the built environment is in the centre of worldwide strategies and measures towards a more sustainable future To provide resilient solutions a simple optimisation of individual technologies will not be sufficient In contrast whole system thinking reveals and exploits connections between parts Each system interacts with others on different scales materials components buildings cities and domains ecology economy and social Whole system designers optimize the performance of such systems by understanding interconnections

and identifying synergies The more complete the design integration the better the result In this book the reader will find the proceedings of the 2016 Sustainable Built Environment SBE Regional Conference in Zurich Papers have been written by academics and practitioners from all continents to bring forth the latest understanding on systems thinking in the built environment     Sustainability Certifications, Labels and Tools in the Built Environment Francesco Asdrubali,Umberto Berardi,2025-06-30 This book is aimed at covering all aspects of the evaluation certification and reduction of the energy and carbon footprint of the built environment from the scale of the city and its neighbourhoods to the building level and finally to the level of single building materials and components Many protocols tools and labels have been proposed in recent years both at international and local levels and the aim of the book is to classify describe and discuss all the different approaches and options The chapters offer a comprehensive up to date and critical review of all the different certification methods that have been proposed at different levels in the building sector The first chapter introduces the topic and its importance providing data on the impact of the building sector and the construction industry The following chapters are dedicated respectively to tools and protocols for cities and neighbourhood sustainability assessment tools and protocols for buildings sustainability assessment and certification and for building materials and components Finally this book includes an overview of the legislation and standards in the field and case studies to exemplify the application of the different tools and labels This is a key reference for decision makers researchers scholars students and professionals approaching research and work in the field of energy and environmental impact of the building sector be they engineers architects planners owners developers or facility managers     Sustainability Assessments of Buildings Umberto Berardi,2018-07-06 This book is a printed edition of the Special Issue Sustainability Assessments of Buildings that was published in Sustainability



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