

Sustainability, Energy and Architecture

Case Studies in Realizing Green Buildings



Ali Sayigh



Sustainability Energy And Architecture Case Studies In Realizing Green Buildings

Matilda Schmidt



Sustainability Energy And Architecture Case Studies In Realizing Green Buildings:

Sustainability, Energy and Architecture Ali Sayigh, 2013-09-25 This unique volume offers insights from renowned experts in energy efficient building from the world over providing a multi faceted overview of the state of the art in energy efficient architecture It opens by defining what constitutes a sustainable building suggesting bases for sorely needed benchmarks then explains the most important techniques and tools available to engineers and architects exploring green building technologies It covers such pivotal issues as daylighting LED lighting integrating renewables such as solar thermal and cooling retrofitting LEED and similar certification efforts passive houses net zero and close zero structures water recycling and much more Highlighting best practices for commercial buildings and private homes in widely varied climates and within vastly different socio economic contexts this illustrated reference will guide architects and engineers in making sustainable choices in building materials and methods Explains the best methods and materials to support energy efficient building Features case studies by experts from a dozen countries demonstrating how sustainable architecture can be achieved in varied climates and economies Covers both new constructions and retrofitting of existing structures **Green**

Buildings and Renewable Energy Ali Sayigh, 2019-11-30 This book highlights selected papers presented during the bi annual World Renewable Energy Network s 2019 Med Green Forum This international forum highlights the importance of growing renewable energy applications in two main sectors Electricity Generation and Sustainable Building The papers highlight the most current research and technological breakthroughs illustrating the viability of using renewable energy to satisfy energy needs Coverage includes a broad range of renewable energy technologies and applications in all sectors electricity production heating and cooling agricultural applications water desalination industrial applications and transport Presents leading edge research in green building sustainable architecture and renewable energy Covers a broad range of renewable energy technologies and applications in all sectors Contains case studies and examples to enhance practical application of the technologies presented *Low Energy Low Carbon Architecture* Khaled Al-Sallal, 2016-05-05 Providing a complete and in depth overview of the available knowledge in the area of low energy and low carbon architecture The scope of this edited book includes several important topics ranging from chapters giving a broad view of the progressing models in ecologically responsible environments to other chapters focussing on recent advances in design strategies and building technologies in low energy heating cooling daylighting materials and building sustainable systems The book will give the readers insight to the future of low energy and low carbon architecture in the beyond green era and discussed in the broader context of the progressing theories of regenerative design **Mediterranean Green Buildings & Renewable Energy** Ali Sayigh, 2016-12-11 This book highlights scientific achievements in the key areas of sustainable electricity generation and green building technologies as presented in the vital bi annual World Renewable Energy Network s Med Green Forum Renewable energy applications in power generation and sustainable development have particular importance in the

Mediterranean region with its rich natural resources and conducive climate making it a perfect showcase to illustrate the viability of using renewable energy to satisfy all energy needs The papers included in this work describe enabling policies and offer pathways to further develop a broad range of renewable energy technologies and applications in all sectors for electricity production heating and cooling agricultural applications water desalination industrial applications and for the transport sector

Sustainable Vernacular Architecture Ali Sayigh, 2019-03-29 This book discusses applying vernacular strategies to modern architectural design to adhere to basic green principles of energy efficiency and materials utilization Written from an international perspective chapters present the perspectives and experiences of architects and engineers from across the globe Historically successful approaches are integrated with modern design concepts to create novel sustainable and resource conscious solutions The scope of topics covered include natural ventilation cooling and heating daylight and shading devices and green micro climate and functional facades making this a useful reference for a wide range of researchers and workers in the built environment Covers the most up to date research developments best practices and innovations from countries all over the globe Presents the latest research in vernacular architecture and sustainable building Contains case studies and examples to enhance practical application of the technologies presented

Renewable Energy in the Service of Mankind Vol I Ali Sayigh, 2015-09-09 This book provides insights on a broad spectrum of renewable and sustainable energy technologies from the world s leading experts It highlights the latest achievements in policy research and applications keeping readers up to date on progress in this rapidly advancing field Detailed studies of technological breakthroughs and optimizations are contextualized with in depth examinations of experimental and industrial installations connecting lab innovations to success in the field The volume contains selected papers presented at technical and plenary sessions at the World Renewable Energy Congress the world s premier conference on renewable energy and sustainable development Held every two years the Congress provides an international forum that attracts hundreds of delegates from more than 60 countries

Emerald Architecture: Case Studies in Green Building (GreenSource) GreenSource Magazine, 2008-05-04 Design inspiration for structures that are beautiful as well as sustainable This unique and lavishly illustrated guide offers invaluable inspiration for the planning of sustainable structures and facilities Twenty four in depth case studies provide information for a wide variety of projects from schools offices and labs to libraries and a summer camp Each case study includes a description of the building how it works and how successful it has been

The Importance of Wood and Timber in Sustainable Buildings Ali Sayigh, 2021-09-13 This book emphasizes the important message that architects and structural engineers must strive to ensure that the buildings they design and construct should not be major contributors to climate change Rather they should be exploring the use of green materials and building methods such as timber wood and associated materials in order to safeguard the environment These sustainable materials are not only environmentally friendly but they have the added benefit of being easy to manufacture cost effective often locally available

and easily replenished Moreover it has been demonstrated that wood and timber are viable materials in the construction of a wide variety of building types including medium and high rise buildings The Importance of Wood and Timber in Sustainable Buildings brings together a distinguished group of contributors from different cultures and building traditions to address why now is the time to rethink our construction methods and explore replacing many of the carbon intensive materials that are currently being used with wood and timber **Building Green for the Future** Urban Catalyst Associates,2005

Regenerative and Positive Impact Architecture Shady Attia,2017-09-19 This book is a guide to energy efficiency and environmental impact assessment in high performance buildings projects It compares four state of the art buildings to examine the steps needed for a transition from negative impact reduction architecture to positive impact regenerative architecture utilizing life cycle analysis The book provides a solid grounding in the areas of energy efficient building and building materials life cycle assessment discussing carbon efficiency within a wider context that includes its technical socio cultural and environmental dimensions and covers the key areas for green buildings performance operational and embodied energy The analysis and comparison of four case studies of state of art modern building projects in Europe and North America serve as inspiring examples for architects and building professionals in the fields of high performance buildings ecological materials and carbon efficiency *Industry and Environment* ,2003 **Comparison of energy efficient and green buildings** Shrestha, Shritu,2016-04-18 The adverse environmental impacts from inefficient building construction increase if measures to reduce energy and resource use through stringent building policies and efficient technology are not implemented in developed and developing countries To illustrate a holistic approach to reducing buildings energy and resources the comparison of energy efficient and green buildings in terms of their technological aspects and their policy context in developed and developing countries mainly in Europe the USA and India is presented together with a policy package recommendation for Nepal A quality review of multiple literature sources supported by various expert opinions were the methods used for this in depth analysis It discusses that mandatory building standards voluntary labels information instruments and financial incentives are the most effective combination for the shift towards market transformation that results in a higher share of energy efficient and green buildings The lesson such as higher compliance with and enforcement of building energy standards can be seen in developed countries e g Germany Looking at a building s life cycle perspective it is not sufficient to focus solely on operational energy reduction in higher energy efficient buildings as this is achieved by the increased use of energy intensive materials Green requirements must be considered in updating building energy standards and labels particularly for developed countries Green building certification will also become more effective when the stringency of energy standards is higher and when the whole building life cycle assessment is considered Due to the increasing scarcity of energy and resources many developing countries are forced to face up to the need for holistic green buildings Although baseline standards are not as high as in most developed countries and national financial support is low

the gradual move towards making the standards more stringent and incorporating the wider scope of resource saving are positive developments in developing countries e.g. India. However, to achieve significant success, strategies must include the establishment of a suitable funding environment, a political commitment and a strong government vision for long term and sustainable building construction. The challenges faced by Nepal are even greater due to the fast pace of urban growth and the absence of energy and resource efficient buildings policies highlighting the need for an effective policy package. Overall, this dissertation demonstrates how energy efficient and green buildings are interlinked. Green buildings reinforced with higher levels of energy efficiency and energy efficient buildings incorporating green requirements are stepping stones for achieving greater building energy and resource efficiencies. And a suitable policy package fosters its development.

Nachteilige Umweltwirkungen eines ineffizienten Bausektors nehmen zu, wenn Maßnahmen zur Reduktion des Energie- und Ressourcenbedarfs in Form stringenter Gebäudepolitiken und effizienter Technologie in Industrieländern und Entwicklungsländern nicht umgesetzt werden. Um einen ganzheitlichen Ansatz zur Reduktion des Energie- und Ressourcenbedarfs von Gebäuden abzubilden, werden energieeffiziente und grüne Gebäude hinsichtlich technologischer Aspekte und ihres Politikkontextes in Industrie- und Entwicklungsländern verglichen. Die Analysen beziehen sich hauptsächlich auf Europa, die USA und Indien und werden ergänzt um Empfehlungen für ein Maßnahmenpaket für Nepal. Ein Review unterschiedlicher Literaturquellen unterstützt durch diverse Expertenmeinungen stellt die methodische Grundlage für diese detaillierte Analyse dar. Es diskutiert, dass Bauvorschriften und standards, freiwillige Label, Informationsinstrumente und finanzielle Anreize bilden die effektivste Kombination für die Einleitung einer Markttransformation, die schließlich zu einem höheren Anteil energieeffizienter und grüner Gebäude führt. Gute Beispiele einer höheren Beachtung von Gebäudeenergiestandards und deren Weiterentwicklung existieren in verschiedenen Industrieländern wie Deutschland. Unter Berücksichtigung des Lebenszyklus von Gebäuden ist es nicht ausreichend, nur die Reduktion des Energieverbrauchs in der Nutzungsphase der Gebäude zu beachten, weil diese den Einsatz von Materialien mit hohem Energieverbrauch in der Herstellung bedeuten kann. Grüne Anforderungen müssen in der zukünftigen Entwicklung von Gebäudeenergiestandards und Labels berücksichtigt werden, insbesondere in Industrieländern. Die Zertifizierung grüner Gebäude wird auch effektiver werden, wenn Energiestandards verschärft werden und wenn vollständige Gebäudekobilanzen berücksichtigt werden. Auf Grund steigender Knappheit von Energie und Ressourcen sind viele Entwicklungsländer gezwungen, sich der Notwendigkeit grüner Gebäude zu stellen. Obwohl das Niveau von Mindeststandards unterhalb dessen der meisten entwickelten Ländern liegt und die finanzielle Unterstützung gering ist, sind die schrittweise Verschärfung der Standards und die Einbeziehung der weiteren Perspektive der Ressourcenschonung positive Entwicklungen in Entwicklungsländern wie Indien. Um erfolgreich zu sein, müssen bestehende Strategien umfasst werden, an die Schaffung eines geeigneten Rahmens, die politische Bekenntnis und eine starke Regierungsvision für einen langfristigen und nachhaltigen Bausektor. Die Herausforderungen mit denen Nepal konfrontiert wird, sind noch umfangreicher. Sie resultieren

aus einem schnellen urbanen Wachstum und dem Fehlen von energie und ressourceneffizienten Gebäudepolitiken Die Erforderlichkeit eines effektiven Maßnahmenpakets für Nepal wird hierdurch unterstrichen Insgesamt wird hierdurch der Zusammenhang zwischen energieeffizienten und grünen Gebäuden aufgezeigt Die verstärkte Berücksichtigung von Energieeffizienz in grünen Gebäuden sowie von Nachhaltigkeitsanforderungen in energieeffizienten Gebäude sind Sprungbretter für die verbesserte Energie und Ressourceneffizienz von Gebäuden Eine solche Entwicklung wird durch ein geeignetes Maßnahmenpaket unterstützt

Green Building and Energy Efficiency Matilda Schmidt, 2016-05-28 Green buildings and energy efficiency have become a very prominent part of civil engineering and architecture The main objective behind these innovations is to encourage the design and construction of buildings that comply with environmental sustainability and energy efficiency measures This book discusses the fundamental as well as modern approaches for energy efficiency environmental quality enhancement use of renewable energy technologies and sustainable architecture and designs etc From theories to research to practical applications case studies related to all contemporary topics of relevance to this field have been included in this book As this field is emerging at a fast pace this book will help the readers to better understand the concepts of green building and energy efficiency

Achieving Building Comfort by Natural Means Ali Sayigh, 2022-10-29 Achieving Building Comfort by Natural Means explores examples of green building designs and methods that are currently being used around the world to achieve human comfort in buildings The operation of buildings accounts for more than 40% of total energy use and is a major source of carbon emissions It is imperative that this consumption be substantially decreased and that energy needed for building comfort is obtained from renewable and environmentally friendly sources This book brings together a global group of contributors who look at factors such as location climate building materials energy management ventilation thermal environmental conditions shading lighting acoustics and more that are critical for achieving buildings that are more sustainable Thermal comfort and climatic potential of ventilative cooling in Italian climates is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Green Buildings Pay Brian Edwards, Emanuele Naboni, 2013-08-22 This third edition of Green Buildings Pay presents new evidence and new arguments concerning the institutional and business case that can be made for green design The green argument has moved a long way forward since the previous edition and this fully updated book addresses the key issues faced by architect engineer and client today Green Buildings Pay Design Productivity and Ecology examines through a range of detailed case studies how different approaches to green design can produce more sustainable patterns of development These cases are examined from three main perspectives that of the architect the client and the user Completely revised with all new chapters cases sections and introductory material the third edition presents over 20 new researched case studies drawn from the UK Europe and the USA written in collaboration with the architects engineers clients and user groups examples of office and educational buildings of high sustainable and high architectural quality an exploration of the

architectural innovations that have been driven by environmental thinking such as the new approaches to the design of building facades roofs and atria cases which demonstrate current practice in the area of energy eco retrofits of existing buildings documentation of the benefit impact assessment schemes such as LEED and BREEAM have had upon client expectations and on design approaches over the past decade beautiful full color illustrations throughout In the fast evolving arena of green building the book shows how architects are reshaping their practices to deal with ever more demanding energy standards and better informed users and corporate clients

Emerald Architecture: Case Studies in Green Building (GreenSource) : Case Studies in Green Building GreenSource Magazine, 2008-04-21 Improve Your Green Design Skills with 24 Full Color Case Studies of Sustainable Structures and Facilities Turn to Emerald Architecture for a full color collection of 24 in depth case studies of sustainable structures and facilities Packed with more than 200 design inspiring photos and illustrations this beautiful architectural guide presents design data and specifications from a wide variety of projects including schools offices labs libraries government buildings and even a summer camp For each case study the book gives a description of the building how it works and how successful it has been In addition each case study includes architectural details elevations and floor plans photos and illustrations site plans product sources and credits key building parameters charts for tracking climate and rainfall and LEED scores and ratings Written by the experts at GreenSource Magazine Emerald Architecture provides A one stop source for green architectural data and design inspiration 24 in depth case studies of sustainable structures More than 200 beautiful photos and illustrations Details plans charts diagrams and elevations Key parameters such as location square footage cost carbon footprint and energy use Charts for tracking climate and rainfall to forecast energy needs Source and product information to maximize research and planning A vital tool for everyone who wants to capitalize on the latest advances in sustainable design and construction Emerald Architecture presents an abundance of hard information on the planning design and methods for green structures The sustainability movement in architecture is gaining tremendous momentum every year especially now that buildings can be rated with LEED and their operations tracked for effectiveness However the building industry is still in need of hard information about the planning design products and methods for sustainable structures In order to help meet this crucial need Emerald Architecture offers you a full color collection of 24 in depth case studies of green buildings that are as attractive as they are sustainable Using more than 200 beautiful photos and illustrations this timely architectural guide presents design data and specifications from a wide variety of projects including schools offices labs libraries multifamily housing and government buildings For each of the cutting edge projects included Emerald Architecture provides a lucid description of the building itself how it works and an evaluation of how successful it has been Written by the experts at GreenSource Magazine this invaluable design tool features the following information for each of the 24 case studies of successful sustainable structures and facilities Comprehensive architectural details elevations and floor and site plans Numerous full color photos and illustrations of the

project Carbon footprint and energy use Accurate product sources and credits to aid in research and planning Key parameters such as location square footage and cost Handy charts for tracking climate and rainfall to understand energy use LEED scores and ratings In addition this all in one green resource contains a comprehensive introduction to concepts of sustainable design time and money saving material on new building technology the international aspects of sustainable design and construction innovative new green products and many forward looking design ideas and techniques that are currently being used to enhance the beauty viability and management of sustainable structures and facilities An essential skills building reference Emerald Architecture presents a state of the art compendium of hard information on the planning design and methods for green structures and facilities Architectural Publications Index ,2003 **Green Building**

Illustrated Francis D. K. Ching,Ian M. Shapiro,2020-11-19 FULLY ILLUSTRATED UPDATED GUIDE TO THE STRATEGIC DESIGN OF GREEN BUILDINGS In the tradition of Building Construction Illustrated Francis D K Ching and Ian M Shapiro offer a fully illustrated guide to the theory and practice of sustainable design This guide provides architects designers and builders in the green design professional community a framework and detailed strategies for designing substantively green buildings With a focus on sustainable sites approaching and reaching net zero energy low and zero water usage minimum impact materials and superior indoor environmental quality this guide explains why we need to build green as well as green building theory and advancements in the industry This Second Edition includes All new case studies featuring geographically diverse buildings with proven zero energy performance Expanded coverage of zero energy building design as well as zero water and zero waste buildings Practical guidance for the schematic design of high performance buildings heating and hot water system selection building envelope details and integrating renewable energy Advanced strategies such as the concept of shape efficiency and the optimal location for stairwells in buildings Additional strategies for affordability in green design and construction Updated references to the latest codes and standards This Second Edition of Green Building Illustrated is an excellent resource for professionals students and those interested in the design and construction of sustainable buildings

Green Building Michael Bauer,Peter Möslle,Michael Schwarz,2009-12-03 An important consideration for energy efficient buildings is their primary energy requirements over the entire life cycle How to determine this What integrative factors influence the performance of a healthy and sustainable building This while it may be important for clients and architects to know is frequently not very transparent This book has been written to assist with clarifying target criteria and expanding horizons when it comes to ecological buildings It is meant as a handbook and source of reference for clients architects planners and building operators to provide them with pertinent information about their design construction and operation how to do this in the most energy efficient and economical manner Also there is feedback and documentation about prominent buildings like the Hamburg Dockland or the Landesbank Baden Wuerttemberg in Stuttgart They provide excellent architectural examples for detailed construction and design solutions Further there are insightful interviews with architects

and clients about many important buildings which help turn this book into an integrated source of reference for sustainable architecture A Guideline for Planning Construction and Operation of sustainable Buildings A source of reference for clients architects planners and building operators Innovative architectural examples with sustainable concepts and design

Concepts, Policies and Technology for Sustainable Buildings Thanuja Ramachandra,Roshani Palliyaguru,Gayani Karunasena,2025-07-12 This book presents knowledge on sustainability concepts policies and technologies adopted in both developed and developing countries The book covers five themes a advancing sustainability building rating systems b promoting retrofitting buildings and warranting energy efficient buildings c realizing water efficiency within building structures d application of the circular economy to manage waste and e enhancing the health and well being of building occupants The first theme includes case study based evidence and solutions to different rating systems used in different countries The second and third themes mainly focus on the achievement of sustainability under the key parameters of energy efficiency and water efficiency through the application of various techniques and technologies such as green roofs green walls and grid tied solar photovoltaic technology with a special emphasis on retrofitting techniques in different case study contexts The fourth theme primarily addresses the need to clarify misconceptions surrounding the concept of the circular economy within the construction industry It explores its broader applications in various contexts aiming to uncover opportunities for knowledge expansion and transfer across different countries The fifth and final theme of the book addresses various good practices and tools developed to enhance the health and well being of building occupants with a primary focus on how such things help achieve sustainable buildings

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