

A GreenSource BOOK

EMERALD ARCHITECTURE

CASE STUDIES IN GREEN BUILDING



From *GreenSource*, a McGraw-Hill Construction Publication

Emerald Architecture Case Studies In Green Building Greensource Greensource S

Brian Edwards, Emanuele Naboni



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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 Green Building Bottom Line (GreenSource Books; Green Source)* Martin Melaver, Phyllis Mueller, 2008-12-01 What are the real costs and real benefits of building green As any builder knows cost estimation and reality are often two very different things The Green Building Bottom Line makes the case for green building by providing the insights and data that demonstrate the true costs and benefits of building green It s a why to and a how to that explores everything from the ground up The Green Building Bottom Line puts an entire development team at the table to better understand both the issues encountered and what s behind the perceived price premium for building green This candid and transparent account explores every aspect of green development on groundbreaking projects from the nation s first all retail LEED core and shell project to an innovative multitenanted LEED Existing Buildings office project to a mixed use hotel retail condo project in a transitional urban market The authors focus on such issues as values culture life cycle costs insurance financing coordinating a team marketing and negotiating leases Includes Detailed case studies of green building projects start to finish Information on financial legal and operational aspects of the job The real world costs of green building not unrealistic estimates A behind the scenes look at the LEED building process Unique insight from those who have actually done the work The Green Building Bottom Line covers Economical and ecological benefits Auditing sustainability in existing buildings Financial benefits of green tenancy Loan analysis Insurance underwriting Expense reduction Writing a green lease Converting an existing building Green retail Brokering sustainability Marketing HR practices and processes *Green Building Through Integrated Design (GreenSource Books)* Jerry Yudelson, 2008-10-31 Market architects engineers project managers general contractors cost estimators property and real estate managers facility managers property developers International appeal includes 25 project profiles from the US Canada United Kingdom Australia Spain China and India Thirty key players share their experiences and lessons learned from working on green building projects *Inside the Civano Project (GreenSource Books)* Al Nichols, Jason Laros, 2009-08-22 A First Hand Look at the High Performance Civano Development This GreenSource book offers a complete survey of Civano the largest high performance mixed use community in the United States Located in Tucson Arizona Civano encompasses high standards of resource conservation sustainability and solar energy use Inside the Civano Project features insider information on the planning funding building and management of this development which integrates residential communities with shopping workplace school and civic facilities as well as parks and natural open spaces The book discusses

the zoning and building code guidelines sustainable building materials energy standards and water conservation technologies that make Civano ahead of its time Inside the Civano Project covers Behind the scenes preconstruction discussions Site analysis planning and zoning Insights from members of the Civano development team The Congress for the New Urbanism The LEED Neighborhood Development program Public private land development strategies The Urban Lands Act The Integrated Method of Performance and Cost Tracking IMPACT System Energy and water use monitoring Photographs of Civano Challenges pitfalls and lessons learned throughout Civano s development

Green Architecture (GreenSource Books) Osman Attmann,2010 Chapter 1 Green Architecture An Overview Chapter 2 Definitions and Operationalizations of Green Architecture Chapter 3 Brief History of Green Architecture Chapter 4 Green Technologies Energy Generation Chapter 5 Green Technologies Energy Retention Chapter 6 Green Materials Chapter 7 Smart Materials Chapter 8 Case Studies BibliographyIndexOsman Attmann is an architect and associate professor at the College of Architecture and Planning University of Colorado

LEED-New Construction Project Management (GreenSource) Vijaya Yellamraju,2010-10-04 A One Stop Guide to Managing LEED New Construction Projects This GreenSource book explains step by step how to integrate LEED New Construction NC rating system requirements into the building design and construction processes Project planning goals coordination implementation and documentation are covered in detail LEED New Construction Project Management provides a tested framework for taking a project from inception to successful certification and shows you how to master the tools to make the process more efficient Three in depth case studies covering new commercial building construction major renovations and a portfolio of buildings highlight the strategies presented in the book LEED New Construction Project Management covers The LEED rating system and LEED NC credit categories The project management process Project definition and goal setting Design phase integration Construction phase implementation The LEED process adaptability applicability and best practices Future trends Credit implementations sustainable sites water efficiency energy and atmosphere materials and resources indoor environmental quality innovation in design

Green Roof Construction and Maintenance (GreenSource Books) Kelly Lockett,2009-08-03 A Complete Guide to Building and Maintaining Green Roofs Written by an industry expert in green roof design and installation this GreenSource book presents all of the information you need to skillfully design construct and maintain green roofs You will find a wealth of practical details gathered through real world implementations and independent research Green Roof Construction and Maintenance explains how to design a green roof plan for irrigation and drainage select and place soil and plants and maintain the entire setup The book also discusses return on investment LEED design specifications and the myriad short and long term environmental benefits of green roofs Filled with step by step illustrations and full color photographs this is a valuable hands on guide to a rapidly emerging trend in the sustainability movement Green Roof Construction and Maintenance includes Key questions to ask at each stage of the green building process Tested tips and techniques for successful structural design Construction methods for new and

existing buildings Information on insulation drainage detailing irrigation and plant selection Details on optimal soil formulation Illustrations featuring various stages of construction Best practices for green roof maintenance A survey of environmental benefits including evapo transpiration storm water management habitat restoration and improvement of air quality Tips on the LEED design and certification process Considerations for assessing return on investment Color photographs of successfully installed green roofs Useful checklists tables and charts

Alternative Energy Systems in Building Design (GreenSource Books) Peter Gevorkian,2009-09-07 Design High Performance Alternative Energy Systems for Buildings A comprehensive reference for architects and engineers this GreenSource book provides practical design and installation guidelines for some of the most commercially viable alternative energy technologies Construction materials system deployment typical installations and environmental impact are covered Alternative Energy Systems in Building Design includes information on LEED design energy conservation and solar power financing and return on investment Power purchase agreements PPAs and national and international carbon cap and trade are also discussed Valuable appendices contain detailed design data tables and certified equipment listings Alternative Energy Systems in Building Design covers Solar power system physics and technologies California solar initiative program Energy conservation Passive heating solar technologies Fuel cell technology Wind energy technologies Ocean energy technologies Hydroelectric and micro hydro turbine power Geothermal energy Biofuel biogas and thermal depolymerization technologies Fission and fusion type nuclear power Air pollution abatement

The Engineering Guide to LEED-New Construction: Sustainable Construction for Engineers (GreenSource) Liv Haselbach,2010-08-09 An Up to Date Guide to the Latest LEED New Construction Guidelines Fully revised for version 3 0 of the LEED New Construction rating system LEED 2009 this GreenSource book helps you acquire the skills needed to apply LEED NC to sustainable construction projects The Engineering Guide to LEED New Construction second edition offers comprehensive coverage of the environmental systems and impacts on which many of the LEED NC subcategories are based Detailed equations and exercises in the book can be used to perform the calculations outlined in LEED NC Valuable information on real world applications of LEED NC in military low impact development LID and other sectors is included in this practical resource THE ENGINEERING GUIDE TO LEED NEW CONSTRUCTION COVERS Introduction to the U S Green Building Council s LEED NC rating system Sustainable sites Water efficiency Energy and atmosphere Materials and resources Indoor environmental quality Innovation in design and regional priorities A systematic view of green and minimum program requirements Department of Defense sustainable construction and indoor air quality IAQ Low impact development

Recycling Construction & Demolition Waste: A LEED-Based Toolkit (GreenSource) Greg Winkler,2010-08-02 A Complete Reference on Construction Waste Recycling This GreenSource guide offers comprehensive information on how to recycle as much as 95 percent of new construction and demolition waste reuse existing materials and comply with U S Green Building Council USGBC LEED waste management guidelines Recycling

Construction Demolition Waste provides the strategies and tools you need to develop and implement a successful jobsite waste management plan This practical resource also covers other programs that promote sustainable construction such as the International Code Council s ICC ES program the National Association of Homebuilders NAHB Green Building Program the Green Building Initiative Green Globes Program BREEAM and more FIND OUT HOW TO Manage construction and demolition waste on the jobsite Set up an efficient jobsite recycling center Recycle new construction waste Conduct an on site audit to assess demolition waste Reuse existing materials including asphalt brick concrete insulation structural steel wood glass and more Develop a comprehensive waste management plan Comply with LEED standards to earn waste management credits Get details on other green certification and code programs Document waste management compliance Include appropriate specifications in construction documents Market your jobsite recycling program

Building Systems Integration for Enhanced Environmental Performance Shahin Vassigh,Jason Chandler,2011-06-01 As the environmental impact of buildings become increasingly recognized the role of building designers and the initial decision making process that determines materials systems and construction processes becomes more critical This timely book addresses sustainability in building design through a series of examples presented as three dimensional models of well integrated building systems The book organizes buildings into three sections structure envelope and mechanical systems based on the integration of paired building systems The book demonstrates the performance of each systems pair in terms of interaction and contribution of each individual system and the synergetic benefits resulting from the unique pairing The last section of the book is devoted to buildings that have a higher degree of integration and cannot be studied as paired systems Each building is illustrated with full graphical display text and analytical drawing to demonstrate its performance in a particular environment

Greening Existing Buildings Jerry Yudelson,2010 A practical reference for building owners developers and facility managers on how to green existing buildings on conventional budgets taking them step by step through each phase of project design construction and operations

Urban Construction Project Management (McGraw-Hill Construction Series) Richard Lambeck,John Eschemuller,2008-12-15 The authors are both established figures in the urban construction field The book will help contractors keep projects on time and within budget

Building for Boomers (McGraw-Hill Construction Series) Judy Schriener,Mike Kephart,2010-03-15 Design and Build Housing for the Boomer Generation This unique resource provides the latest housing data options and trends to help you plan design and construct homes and communities to meet the requirements and expectations of aging baby boomers There are 77 million boomers in the United States alone who continue to set the new higher standard for product change and innovation as they have been doing for decades Building for Boomers offers targeted information for architects builders engineers developers remodelers and suppliers interested in capitalizing on this exploding market LEARN HOW TO Plan neighborhoods based on local and regional factors including zoning and other regulations Understand different types of neighborhoods such as age targeted

mixed generations transit oriented design TOD traditional neighborhood developments TNDs cohousing and others Integrate aging in place universal and green building design concepts Incorporate technology infrastructure into your designs including communication entertainment lighting environment protection and healthcare Design single family homes townhouses condos and apartments Explore various design options for living spaces bedrooms kitchens bathrooms and storage Stay informed of growing trends such as green construction and smart homes Determine and develop your niche

Hydraulic and Civil Engineering Technology VII Mijia Yang, João C.G. Lanzinha, Pijush Samui, Xingxian Bao, Jianhui Hu, 2022-12-15 Engineering technology is of crucial importance to the infrastructure on which modern societies depend and keeping abreast of the latest research and developments in the field is of vital importance This book presents the proceedings of HCET 2022 the 7th International Technical Conference on Frontiers of Hydraulic and Civil Engineering Technology originally due to be held in Sanya China from 25-27 September 2022 but instead held as a fully virtual event on Zoom due to continued uncertainty related to the Covid 19 pandemic HCET is a platform for the dissemination of research results on the latest advances in the areas of hydraulic and civil engineering technology and environmental engineering and provides an opportunity for scientists researchers and engineers from around the world to exchange their findings discuss developments and possibly establish a basis for collaboration A total of 275 submissions were received from international contributors and all were subjected to a rigorous peer review process with each paper reviewed by a minimum of two experts Papers were also checked for quality and plagiarism after which 163 papers were accepted for presentation and publication Topics covered include the research and development of concrete structure design and analysis structural mechanics and structural engineering geological exploration and earthquake engineering building technology urban planning energy environment and advanced engineering science and applications The book offers a state of the art overview of recent developments and will be of interest to all those working in the fields of hydraulic and civil engineering technology **Emerald Architecture** Jane

Kolleeny, 2008 **Facilities Management and Development for Tourism, Hospitality and Events** Ahmed Hassanien, Crispin Dale, 2013 Facilities planning for tourism hospitality and events THE is an important subject from both theoretical and applied perspectives as land property and resources represent major components of the foundation of the industry As future managers it is imperative that students have a sound basic knowledge of property and the various resources systems and services associated with it Covering important contemporary subjects such as sustainable planning and environmental management this book considers the planning development and management of facilities operations from several key perspectives drawing upon the expertise of complementary experts in the design management and development of THE facilities **The Green Building Bottom Line (GreenSource Books; Green Source) : The Real Cost of Sustainable Building** Martin Melaver, Phyllis Mueller, 2008-10-31 What are the real costs and real benefits of building green As any builder knows cost estimation and reality are often two very different things The Green Building Bottom Line makes

the case for green building by providing the insights and data that demonstrate the true costs and benefits of building green. It's a why to and a how to that explores everything from the ground up. The Green Building Bottom Line puts an entire development team at the table to better understand both the issues encountered and what's behind the perceived price premium for building green. This candid and transparent account explores every aspect of green development on groundbreaking projects from the nation's first all retail LEED core and shell project to an innovative multitenanted LEED Existing Buildings office project to a mixed use hotel retail condo project in a transitional urban market. The authors focus on such issues as values, culture, life cycle costs, insurance, financing, coordinating a team, marketing, and negotiating leases. Includes Detailed case studies of green building projects start to finish. Information on financial, legal, and operational aspects of the job. The real world costs of green building, not unrealistic estimates. A behind the scenes look at the LEED building process. Unique insight from those who have actually done the work. The Green Building Bottom Line covers Economical and ecological benefits, Auditing sustainability in existing buildings, Financial benefits of green tenancy, Loan analysis, Insurance underwriting, Expense reduction, Writing a green lease, Converting an existing building, Green retail, Brokering sustainability, Marketing, HR practices and processes.

Building an Emerald City Lucia Athens, 2012-06-22 In 2000 Seattle, Washington became the first U.S. city to officially adopt the U.S. Green Building Council's LEED Leadership in Energy and Environmental Design Silver standards for its own major construction projects. In the midst of a municipal building boom, it set new targets for building and remodeling to LEED guidelines. Its first LEED certified project, the Seattle Justice Center, was completed in 2002. The city is now home to one of the highest concentrations of LEED buildings in the world. Building an Emerald City is the story of how Seattle transformed itself into a leader in sustainable green building, written by one of the principal figures in that transformation. It is both a personal account filled with the experiences and insights of an insider and a guide for anyone who wants to bring about similar changes in any city. It includes best practice models from municipalities across the nation, supplemented by the contributions of guest authors who offer stories and tips from their own experiences in other cities. Intended as a roadmap for policy makers, public officials, and representatives, large scale builders, and land developers and green advocates of every stripe, Building an Emerald City is that rare book, one that is both inspirational and practical.

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

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