

A GreenSource book

# Greening Existing Buildings



Jerry Yudelson

Foreword by Paul and Raquel Harris, Johnson Controls



# Greening Existing Buildings Book

**Peter Gevorkian**



## **Greening Existing Buildings Book:**

**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

**Sustainable Preservation** Jean Carroon, 2011-02-15 Sustainable Preservation takes a nuanced look at the hundreds of choices that adaptive reuse requires architects to make from ingenious ways to redeploy existing structural elements to time honored techniques for natural ventilation to creation of wetlands that restore a site's natural biological functions In addition Sustainable Preservation presents 50 case studies of projects schools houses offices stores museums and government buildings that set new standards for holistic approaches to adaptive reuse and sustainability The author covers design issues from building location to lighting systems renewable power options stormwater handling and building envelope protection and integrity The book also reviews operational issues including materials choices for low lifetime maintenance green housekeeping and indoor air quality

[Greening Existing Buildings with Leadership in Energy and Environmental Design-Existing Buildings!](#) Tyson H. Dirksen, Mark D. McGowan, Massachusetts Institute of Technology. Department of Urban Studies and Planning, Massachusetts Institute of Technology. Center for Real Estate, 2008 The market of existing office buildings is going green While early adopters of green buildings were owner occupiers there is a current wave of nonowner occupied office buildings seeking Leadership in Energy and Environmental Design LEED for Existing Buildings certification This thesis examines the current context in which this dramatic change is transpiring as well as answers the following questions as they relate to this green transformation of existing multitenanted office buildings Who is participating Why are they participating What is the process What are the costs How is it being financed Research conducted included literature review and interviews with building owners property managers building engineers and brokers in several major metropolitan office markets in the United States This thesis examines green building rating systems from around the world We focus on the LEED rating system the most widely used in the United States as it provides a good framework for owners and managers to evaluate and benchmark the environmental performance of their building Our research indicates that a much higher percentage of Class A office building owners and managers are pursuing LEED for Existing Building LEED EB certification while Class B owners and managers are not Class B owners face less incentives and greater obstacles when pursuing LEED EB certification In chapter four of this thesis we explore two creative ways that Class B owners and managers may be able to overcome some of these hurdles Energy Savings Performance Contracts ESPCs and Power Purchase Agreements PPA

[The Paid-From-Savings Guide to Green Existing Buildings](#) Robert Neal Van Der Like, Peggy Meehan, 2009-01-01

*The Green Building Revolution* Jerry Yudelson, 2008 The Green Building Revolution introduces reader to the basics of green building and to the projects and people that are advancing this movement It shows readers why and how to start thinking about designing building and operating high performance environmentally aware primarily LEED

certified buildings on conventional budgets      [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      [The Power of Existing Buildings](#) Robert Sroufe, Craig Stevenson, Beth Eckenrode, 2019-11-12 Your building has the potential to change the world Existing buildings consume approximately 40 percent of the energy and emit nearly half of the carbon dioxide in the US each year In recognition of the significant contribution of buildings to climate change the idea of building green has become increasingly popular But is it enough If an energy efficient building is new construction it may take 10 to 80 years to overcome the climate change impacts of the building process New buildings are sexy but few realize the value in existing buildings and how easy it is to get to zero energy or low energy consumption through deep energy retrofits Existing buildings can and should be retrofit to reduce environmental impacts that contribute to climate change while improving human health and productivity for building occupants In *The Power of Existing Buildings* academic sustainability expert Robert Sroufe and construction and building experts Craig Stevenson and Beth Eckenrode explain how to realize the potential of existing buildings and make them perform like new This step by step guide will help readers to understand where to start a project develop financial models and realize costs savings assemble an expert team and align goals with numerous sustainability programs *The Power of Existing Buildings* will challenge you to rethink spaces where people work and play while determining how existing buildings can save the world The insights and practical experience of Sroufe Stevenson and Eckenrode along with the project case study examples provide new insights on investing in existing buildings for building owners engineers occupants architects

and real estate and construction professionals The Power of Existing Buildings helps decision makers move beyond incremental changes to holistic results oriented solutions **Handbook of Green Building Design and Construction** Sam Kubba,2016-10-15 Handbook of Green Building Design and Construction LEED BREEAM and Green Globes Second Edition directly addresses the needs of building professionals interested in the evolving principles strategies and concepts of green sustainable design Written in an easy to understand style the book is updated to reflect new standards to LEED In addition readers will find sections that cover the new standards to BREEAM that involve new construction Infrastructure data centers warehouses and existing buildings Provides vital information and penetrating insights into three of the top Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case studies that draws on over 35 years of personal experience from across the world

*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 **Greening Modernism** Carl Stein,2010-10-26 Greening Modernism addresses the interrelationships between sustainability architectural preservation and the Modern movement and places these issues into historical perspective For the past quarter century mainstream architecture has proceeded on the underlying belief that we have the resources to build whatever and as much as we want and that technology can overcome any problems we create for ourselves through our building activities The serious shortages that now confront us demand a thorough reevaluation of this premise Carl Stein nationally recognized for his contributions to the field of sustainable design connects the impact of individual building design decisions to the global

energy and environmental crises He sets out the argument for sustainability inherent in Modern design identifying tenets that are intrinsic to contemporary ecological thinking and he provides the nuts and bolts information to assist practitioners and students of architecture engineering planning and environmentalism in specific building upgrade projects While not a how to handbook Greening Modernism provides quantitative data and describes the environmental benefits from the continued use of the vast inventory of modern buildings including reduced demand for energy and other finite resources and reduced need for waste processing Greening Modernism explains the relationships between design and technology in the pre petroleum early petroleum and late petroleum eras and goes on to suggest opportunities for architecture in a post petroleum world

**Reinventing Green Building** Jerry Yudelson,2016-04-25 Buildings and their associated systems are the largest source of greenhouse gases in the world The 2030 Challenge aims to produce zero net energy from new North American construction by 2030 while achieving a 50 percent reduction in carbon emissions from existing buildings With less than 4 percent of commercial and residential structures in the United States and Canada certified by 2015 we seem destined to fall catastrophically short of this target Reinventing Green Building combines a unique insider s critique of the current state of affairs with a potent vision for the future This highly visual data driven analysis brings together the wisdom of today s leading practitioners including Up to date information on green building issues energy economics and new technology Dramatic new approaches to certification system design and user experience Creative outside the box solutions using the Internet of Things big data analytics and cloud based technologies for building management The green building revolution has failed to fulfill its promise to transform the marketplace in a meaningful way Smart simple and sustainable Reinventing Green Building presents a new approach to certification designed to radically cut costs while dramatically increasing marketplace acceptance integrating true climate mitigation and better building performance Jerry Yudelson dubbed The Godfather of Green by Wired magazine in 2011 has many years of professional experience in the green building field elected as a LEED Fellow and having served as the president of the Green Building Initiative He is the author of thirteen books in the field including Dry Run Choosing Green and Green Building A Z

**Existing Buildings** U.S. Green Building Council,2008  
Becoming a Green Building Professional Holley Henderson,2012-08-03 A career guide for professionals in sustainable architecture design planning development and related consulting For those considering a new career or a career change focused on green and sustainable building and design Becoming a Green Building Professional offers practical information on educational requirements career options guidance and tips and first hand interviews with green building professionals Perfect for underemployed architects and other building and design professionals who want to reinvent and renew their careers as well as students considering such a career this is a vital and informative guide to a growing field

**Green Retrofits and Operations of Existing Buildings** Horace E. Allen (Jr),2015 *The Green Museum* Sarah S. Brophy,Elizabeth Wylie,2013-03-21 Environmentally friendly practices are crucial to the mission of museums which as houses

of preservation are uniquely suited to modeling green behavior and sustainability The Green Museum remains the leading handbook for museums seeking to learn ways to implement environmentally sustainable practices at their institutions whether they are planning new construction or want to find out how to green their day to day operations As environmental sustainability becomes the rule rather than the exception for businesses of all kinds this new edition features updated standards techniques and information as well as new case studies

*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

**Why Old Places Matter** Thompson M. Mayes,2018-09-01 Why Old Places Matter is the only book that explores the reasons that old places matter to people Although people often feel very deeply about the old places of their lives they don t have the words to express why This book brings these ideas together in evocative language and with illustrative images for a broad audience The book reveals the fundamentally important yet under recognized role old places play in our lives While many people feel a deep seated connection to old places from those who love old houses to the millions of tourists who are drawn to historic cities to the pilgrims who flock to ancient sites throughout the world few can articulate why The book explores these deep attachments people have with old places the feelings of belonging continuity stability identity and memory as well as the more traditional reasons that old places have been deemed by society to be important such as history national identity and architecture This book will be appealing to anyone who has ever loved an old place But more importantly it will be an useful resource to articulate why old places are meaningful to people and their communities This book will help people understand that the feeling many have for old places is supported by a wide variety of fields and that the continued existence of these old places

is good It will give people the words and phrases to understand and express why old places matter **Building Codes for Existing and Historic Buildings** Melvyn Green,2011-11-15 Learn to apply the International Building Code and International Existing Building Code to historic buildings Written for architects engineers preservation and code enforcement professionals this is the only comprehensive book that examines how the International Building Code IBC and the International Existing Building Code IEBC can be applied to historic and existing buildings For ease of use the book is organized to parallel the structure of the IEBC itself and the approach is cumulative with the objective of promoting an understanding of the art of applying building regulations to the environment of existing buildings Building Codes for Existing and Historic Buildings begins with a discussion of the history of building regulations in the United States and the events and conditions that created them Next it provides thorough coverage of The rationale behind code provisions and historic preservation principles Major building code requirements occupancy and use types of construction and heights and areas Building performance characteristics fire and life safety structural safety health and hygiene accident prevention accessibility and energy conservation Case study projects that reinforce the material covered Additionally the book includes building analysis worksheets both blank and filled in versions with examples that illustrate how to develop a code approach for an individual building If you are a professional at any level who is working on creating a plan that meets the intent of the code for historic or existing buildings Building Codes for Existing and Historic Buildings gives you everything that you need to succeed 5 Must-Know A/E Lessons in Green Building , 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

## Enjoying the Song of Phrase: An Mental Symphony within **Greening Existing Buildings Book**

In some sort of eaten by screens and the ceaseless chatter of instant transmission, the melodic beauty and psychological symphony created by the prepared word usually disappear into the background, eclipsed by the constant sound and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Greening Existing Buildings Book** a wonderful fictional treasure overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this fascinating masterpiece conducts visitors on a psychological trip, skillfully unraveling the concealed songs and profound impact resonating within each cautiously constructed phrase. Within the depths of the touching analysis, we can examine the book is key harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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