

leed reference guide

leed reference guide: Your Comprehensive Resource for Understanding LEED Certification

Understanding sustainable building practices is essential in today's construction industry, and the Leadership in Energy and Environmental Design (LEED) certification stands at the forefront of green building standards worldwide. Whether you're a project manager, architect, developer, or sustainability enthusiast, having a thorough LEED reference guide can make the certification process smoother and more informed. This article provides an in-depth overview of LEED, its structure, benefits, and how to navigate the LEED reference guide effectively.

What is LEED? An Introduction

LEED, developed by the U.S. Green Building Council (USGBC), is a globally recognized certification program that evaluates the environmental performance of buildings and communities. It promotes sustainable practices across various aspects of design, construction, operation, and maintenance.

The Purpose of LEED Certification

- Encourage environmentally responsible building practices
- Reduce energy and water consumption
- Enhance indoor environmental quality
- Promote sustainable site development
- Support the health and well-being of occupants

LEED Certification Levels

LEED certification is awarded at different levels depending on the points earned:

1. Certified (40–49 points)
2. Silver (50–59 points)
3. Gold (60–79 points)
4. Platinum (80+ points)

Understanding the LEED Reference Guide

The LEED reference guide is an essential resource for anyone aiming to achieve certification. It provides detailed explanations of the criteria, credits, and prerequisites necessary for each level of certification.

Components of the LEED Reference Guide

- Overview of LEED Credits and Prerequisites

Explains the various categories and how points are allocated.

- Detailed Credit Descriptions

Clarifies what each credit entails, including requirements and strategies.

- Documentation and Compliance Requirements

Outlines what documentation is needed to demonstrate compliance.

- Case Studies and Best Practices

Offers real-world examples and tips for successful certification.

Why Use the LEED Reference Guide?

- To understand the scope and requirements of each credit
- To identify strategies for earning points efficiently

- To ensure compliance with certification standards
- To streamline the application and documentation process

LEED Certification Categories

LEED evaluates building projects across multiple categories. Each category has specific credits aimed at addressing different aspects of sustainability.

1. Location and Transportation (LT)

- Promotes smart site selection
- Encourages access to public transit
- Reduces vehicle miles traveled

2. Sustainable Sites (SS)

- Protects existing natural environments
- Implements landscaping that reduces water use
- Manages stormwater runoff effectively

3. Water Efficiency (WE)

- Reduces potable water use
- Implements water-saving fixtures
- Uses non-potable water sources

4. Energy and Atmosphere (EA)

- Optimizes energy performance

- Incorporates renewable energy
- Reduces greenhouse gas emissions

5. Materials and Resources (MR)

- Uses sustainable materials
- Promotes waste reduction and recycling
- Implements responsible sourcing

6. Indoor Environmental Quality (EQ)

- Ensures good indoor air quality
- Maximizes daylight and views
- Uses low-emitting materials

7. Innovation (IN)

- Rewards innovative sustainable practices
- Recognizes exemplary performance beyond standard credits

8. Regional Priority (RP)

- Focuses on credits that address regional environmental priorities

Navigating the LEED Credit Categories and Credits

Understanding the structure of credits within each category is crucial for planning your project.

How Credits Are Earned

- Each credit has specific requirements and documentation
- Points are awarded based on the degree of compliance
- Some credits are prerequisites, essential for certification eligibility

Key Strategies for Earning Credits

- Early planning and integration of green practices
- Collaboration among project team members
- Utilizing LEED tools and resources for tracking progress

The LEED Certification Process

Achieving LEED certification involves several stages, each supported by the reference guide.

1. Registration

- Register your project on the USGBC website
- Pay applicable fees

2. Design and Documentation

- Use the reference guide to identify applicable credits
- Collect and compile necessary documentation
- Engage with LEED Accredited Professionals (LEED APs)

3. Submission and Review

- Submit your application via LEED Online
- Respond to reviewer comments and requests for clarification

4. Certification Decision

- Receive certification level based on points earned
- Address any required corrections or improvements

Benefits of Using the LEED Reference Guide

Adopting the LEED reference guide as a core resource offers numerous advantages:

- Clarity and Guidance: Clear explanations of complex credits and requirements
- Efficiency: Streamlined documentation and compliance process
- Cost Savings: Strategies for maximizing points within budget
- Marketability: Enhanced reputation and value of certified buildings
- Environmental Impact: Significant reductions in resource consumption and emissions

Tips for Effectively Using the LEED Reference Guide

- Start Early: Incorporate sustainable strategies from the initial design phase
- Leverage Expert Knowledge: Work with LEED Accredited Professionals
- Maintain Organized Documentation: Track all evidence and data meticulously
- Regularly Review Updates: Stay informed about changes in LEED standards
- Utilize Additional Resources: USGBC webinars, case studies, and community forums

Conclusion

A well-structured LEED reference guide is indispensable for navigating the complexities of green building certification. By understanding its components, benefits, and application strategies, project teams can achieve sustainable goals efficiently and effectively. Achieving LEED certification not only demonstrates a commitment to environmental stewardship but also provides economic, health, and market advantages that benefit all stakeholders.

Additional Resources

- USGBC Official Website: <https://www.usgbc.org>
- LEED v4 Reference Guide (latest version)
- LEED Professional Accreditation: Certification programs for professionals
- Sustainable Building Councils worldwide

By following this comprehensive LEED reference guide, professionals can confidently approach green building certification, making informed decisions that promote sustainability and resilience in the built environment.

Frequently Asked Questions

What is the LEED Reference Guide and why is it important?

The LEED Reference Guide is a comprehensive resource that provides detailed information on LEED certification standards, credits, and requirements. It is essential for architects, builders, and project teams to understand how to achieve LEED certification and ensure compliance with green building practices.

How often is the LEED Reference Guide updated?

The LEED Reference Guide is updated regularly to align with the latest version of the LEED rating systems, reflecting new sustainability strategies, technological advancements, and best practices. It is recommended to use the most recent edition for current projects.

Where can I access the LEED Reference Guide?

The LEED Reference Guide is available for purchase or free download through the U.S. Green Building Council (USGBC) website and other authorized distributors. Access may vary depending on the specific LEED version and project type.

What are the main sections covered in the LEED Reference Guide?

The guide covers key sections including overview of LEED credits, detailed credit requirements, strategies for certification, documentation processes, and case studies demonstrating successful implementation of sustainable practices.

Can the LEED Reference Guide help in preparing for LEED certification exams?

Yes, the LEED Reference Guide is a valuable study resource for LEED exam candidates, providing in-depth explanations of credit requirements, LEED principles, and practical approaches to sustainable building design and construction.

Is the LEED Reference Guide applicable to all types of buildings?

While the guide provides comprehensive information applicable to various building types, specific credits and strategies may vary depending on whether the project is commercial, residential, healthcare, or other specialized categories.

How does the LEED Reference Guide assist project teams in documentation?

The guide offers detailed instructions on documenting compliance with each credit, including sample forms, checklists, and best practices to streamline the certification process and ensure all requirements are met.

Are there digital versions of the LEED Reference Guide available?

Yes, digital versions of the LEED Reference Guide are available, often in PDF format, allowing for easier access, searchability, and portability for project teams during design and construction phases.

Additional Resources

LEED Reference Guide: Navigating the Blueprint for Sustainable Building Certification

LEED reference guide plays a pivotal role in the evolving landscape of sustainable architecture and green building practices. As environmental concerns intensify and the demand for eco-friendly structures increases, the Leadership in Energy and Environmental Design (LEED) certification has emerged as a gold standard for builders, architects, and developers committed to sustainability. The LEED reference guide serves as an essential manual, offering comprehensive insights into the certification process, criteria, and strategies for achieving green building excellence. This article delves into the intricacies of the LEED reference guide, exploring its structure, significance, and practical application in modern construction projects.

Understanding the LEED Certification Program

Before unpacking the LEED reference guide, it's crucial to understand what LEED entails. Developed by the U.S. Green Building Council (USGBC), LEED is a globally recognized rating system that

assesses a building's sustainability across various parameters. The goal is to promote environmentally responsible, resource-efficient, and healthy building practices.

Key Aspects of LEED Certification:

- Categories: LEED evaluates projects across multiple categories, including Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation.
- Levels of Certification: Projects earn points in each category, culminating in certification levels—Certified, Silver, Gold, and Platinum—based on total points achieved.
- Applicability: LEED is applicable to a wide range of building types, including new constructions, existing buildings, interior fit-outs, and neighborhood development.

The Role of the LEED Reference Guide

The LEED reference guide functions as the authoritative manual that guides project teams through the complex process of achieving certification. It provides detailed explanations of each credit, technical requirements, case studies, and strategies for compliance.

Why the LEED Reference Guide is Indispensable:

- Clarity and Guidance: Offers clear descriptions of each credit and prerequisite, helping teams understand what's required.
- Technical Details: Includes technical data, calculation methods, and documentation procedures.
- Best Practices: Presents case studies and examples to illustrate successful strategies.
- Updates and Revisions: Reflects the latest standards, innovations, and policy changes in sustainable design.

Structure and Components of the LEED Reference Guide

The LEED reference guide is meticulously organized to facilitate ease of use and comprehensive understanding. Its core components include:

1. Introduction and Overview

Provides background on LEED, its benefits, and how to navigate the guide effectively.

2. Certification Process

Details the steps involved—from registration and design to construction and commissioning.

3. Credit Categories and Requirements

Breaks down each of the LEED categories, outlining:

- Prerequisites: Mandatory requirements for certification.
- Credits: Optional points that contribute toward certification levels.

4. Technical Guidance

Contains detailed explanations, calculations, and methodologies necessary for compliance:

- Energy modeling techniques
- Water usage calculations
- Material life cycle assessments
- Indoor air quality testing procedures

5. Documentation and Submission

Guides project teams on how to prepare, organize, and submit documentation for review.

6. Case Studies and Best Practices

Showcases real-world examples illustrating successful LEED strategies.

Core LEED Credit Categories Explained

The reference guide dedicates substantial sections to each category, providing in-depth guidance:

Sustainable Sites (SS)

Focuses on minimizing impact on ecosystems:

- Site selection avoiding environmentally sensitive areas
- Reducing heat island effects
- Promoting alternative transportation

Water Efficiency (WE)

Encourages responsible water use:

- Installing water-saving fixtures
- Using recycled water for irrigation
- Designing landscapes requiring minimal irrigation

Energy and Atmosphere (EA)

Targets energy performance:

- Incorporating energy-efficient systems
- Monitoring energy consumption
- Utilizing renewable energy sources

Materials and Resources (MR)

Promotes sustainable material use:

- Preference for locally sourced, recycled, or renewable materials
- Waste reduction during construction
- Lifecycle assessment of materials

Indoor Environmental Quality (EQ)

Enhances occupant comfort:

- Ensuring good indoor air quality
- Maximizing daylight
- Using low-emitting materials

Innovation (IN)

Rewards innovative strategies not covered in standard credits:

- Cutting-edge sustainable practices
- Exemplary performance in existing categories

Practical Application of the LEED Reference Guide

While the guide offers theoretical knowledge, its true value lies in practical application. Here are steps project teams typically follow:

1. Initial Assessment and Goal Setting

- Review project scope and site conditions.
- Identify relevant LEED categories and credits.
- Set certification goals aligned with project priorities.

2. Design Integration

- Incorporate sustainable strategies early in design.
- Use the guide to select appropriate credits.
- Engage specialists (e.g., energy modelers, LEED APs).

3. Documentation Preparation

- Collect necessary data and evidence.
- Use the guide's templates and checklists.
- Maintain organized records for review.

4. Construction and Commissioning

- Ensure compliance during construction.
- Conduct testing and commissioning.
- Verify that implemented strategies meet requirements.

5. Submission and Review

- Submit documentation via LEED Online platform.
- Address reviewer comments and resubmissions if needed.
- Achieve certification once approved.

Navigating Challenges with the LEED Reference Guide

Achieving LEED certification isn't without challenges. The guide helps mitigate common issues:

- Complexity of Requirements: Breaks down technical language and provides step-by-step instructions.
- Documentation Burden: Offers templates and best practices to streamline reporting.
- Evolving Standards: Regular updates ensure project teams have current information.
- Cost Considerations: Guides on balancing sustainability goals with budget constraints.

The Impact of the LEED Reference Guide on Sustainable Building

The LEED reference guide has significantly influenced sustainable building practices worldwide by:

- Standardizing green building criteria.
- Educating professionals on sustainability principles.
- Encouraging innovation through the Innovation category.
- Improving building performance and occupant health.

Its comprehensive nature ensures that project teams are well-equipped to navigate the certification process efficiently and effectively.

Conclusion

The *LEED reference guide* is more than just a manual; it is a strategic tool that empowers architects, engineers, and developers to design and construct buildings that are environmentally responsible, resource-efficient, and healthier for occupants. As the demand for sustainable development continues to grow, mastering the insights and strategies within the LEED reference guide becomes essential for achieving certification and contributing positively to global environmental goals. Whether embarking on a new project or retrofitting existing structures, leveraging this guide ensures that sustainability is integrated seamlessly into every phase of building development, paving the way for a greener, more sustainable future.

Leed Reference Guide

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leed reference guide: LEED v4 BD&C EXAM GUIDE Gang Chen, 2015-06-26 Pass the LEED AP BD&C Exam, Get Your Building LEED Certified, Fight Global Warming and Save Money! The USGBC released LEED v4 in GreenBuild International Conference and Expo in November, 2013. The GBCI started to include the new LEED v4 content for all LEED exams in late Spring 2014. We have incorporated the new LEED v4 content in this book. Starting on December 1, 2011, GBCI began to draw LEED AP BD+C Exam questions from Green Building and LEED Core Concepts Guide. We have also incorporated the latest information from this book. LEED (Leadership in Energy and Environmental Design) is one of the most important trends in development and is revolutionizing the construction industry. It has gained tremendous momentum and has a profound impact on our environment. From this book, you will learn how to: 1. Pass the LEED AP BD+C Exam. 2. Register and achieve LEED certification for a building. 3. Understand the intent of each LEED prerequisite and credit. 4. Calculate points for LEED credits. 5. Identify the credit path, submittal requirements, synergies, possible strategies and technologies, project phase, LEED submittal phase, and responsible party for each prerequisite and credit. 6. Earn extra credit (exemplary performance) for LEED. 7. Implement the related codes and standards. 8. Obtain points for categories not yet clearly defined by the USGBC. Most of the existing books on LEED and the LEED exams are too expensive and complicated to be practical or helpful. This guide fills in the blanks and demystifies LEED. It uncovers the secrets, codes, and jargon for LEED as well as the true meaning of going green. It provides a solid foundation and fundamental framework for LEED. It covers every major aspect of LEED in plain and concise language, and introduces it to ordinary people. This guide is easy to carry around. You can read it whenever you have a few extra minutes. It is an indispensable book for

ordinary people, developers, brokers, contractors, administrators, architects, landscape architects, engineers, interns, drafters, designers, and other design professionals. What others are saying about LEED BD&C Exam Guide ... "Passed on first try, only used this guide "This is the best study guide HANDS DOWN. If you're serious about passing the LEED AP BD&C exam on your first try, this is the one you've been looking for! I bought Mr. Chen's LEED Green Associate Exam Guide 2 months ago and passed it on the first try as well. I purchased the USGBC reference guide and Mr. Chen's LEED BD&C Exam Guide. I never opened the USGBC reference guide, only studied from Mr. Chen's study guide. I followed Mr. Chen's instructions and studied the guide for 2 weeks (yes, I have a full-time job). I did ignore the mnemonics, not my learning style (makes it more confusing to me). The exam was not easy, but I prepared and stuck to this material. I am not a good test taker by no means. I reviewed the technical data of the guide about 6 times and ignored everything else I had read or heard about the exam. Here's a piece of advice that I picked up from this book, spend less time on practice tests and more time studying! I have a subscription to a web exam simulator (rated the best) and only did about 100 questions, until I realized that I was wasting my valuable time. Find a good book and stick to it. This is also a great reference guide to use on everyday projects. Review the material, try to understand it, then try to memorize it through repetition. I would like to shake your hand and say THANKS AGAIN MR. GANG CHEN !!! " —LOBO "Excellent Guide and Good Manual "I passed the LEED AP BD+C and the LEED AP ID+C exams this year and Gang Chen's books were my primary study material! The books are easy to read and use. Gang Chen provides study hints and guidance as well as an outline format that makes it easy for the reader to grasp key points. He also provides an excellent review of the entire accreditation process which can save people time in personal research. The books are more than study guides; they are helpful as reference manuals because of the easy to follow format. Definitely a keeper in my bookshelf for future project reference." —Karen M. Scott "Great resource for studying for the LEED Exam! "I have taken and passed the LEED AP BD+C exam and know what it takes. As this author says, it's not an easy exam and he is right. What is critical to passing is having great teaching tools and this book is one of them. He touches on every aspect of how to memorize data, how questions are formed, what to expect on tricky questions, the content the test writers are looking for and every little detail you need to know when preparing for this exam. I highly recommend this author's books if you are serious about passing any of the LEED exams, hopefully on the first try!" —S. Jennifer Sakiewicz "LEED BD & C Exam Study Guide "Gang Chan's study guide is an excellent resource in preparing to take the LEED AP BD+C exam particularly if one follows the study recommendation made in the guide. It does not replace the LEED Reference manual as the definitive source for technical information but more importantly provides a structure for the study of the information that is easily understood and when followed should provide good assurance of success in passing the exam the 1st time. This is a 'keeper'!" —Spock "Good summary of information to memorize for the test "Chen's exam guide is a good summary of the test relevant information in the LEED reference guide. He underlines specific information that is important to commit to memory for the test. It is a good way to understand which information needs to be strictly memorized if you are preparing for the test in a short amount of time and have a good understanding of the LEED process through your professional experience. I passed the test with a very high score on my first try, and I did use this guide, one other, the LEED reference manual, online sources, a class, and many years of personally working on and completing online LEED submittals through my work. The week before taking the test I used it to commit point values and those kind of details to memory... " —Denver "Not a bulky ref guide "LEED BD&C Exam Guide does a great job in highlighting and summarizing the key points and concepts in USGBC ref guide. If you only have limited amount of time for LEED AP BD+C exam preparation, definitely go for this book." —Metcalf "Very valuable guide! "I am a lighting designer and am preparing to take the LEED BD+C exam...I got LEED BD&C Exam Guide to prepare for the LEED AP BD+C Exam and it was fairly well organized to help me refresh my memory on the background LEED knowledge I had. All the specifics that one needs to know about each credit such as the Purpose of the credit, Credit path, Submittals, Strategies and technologies etc, are clearly

organized for every credit. In addition the author also employs the smart technique of Mnemonics which helps in memorizing the vast amount of information in a simplified manner.” —Visswapriya Prabakar “Immensely valuable and utterly to the point, a true must have! “This is an excellent publication by Gang Chen that outlines precisely all the key points one need for success. I personally appreciate the easy to adopt memorization technique offered by the author. Practice exams are very comprehensive yet summarized and not to mention highly effective learning tool as it is designed in this book. It is a very delightful experience for me to have this outstanding publication. In a word, this definitely worth the money and for me it turns out extraordinarily helpful.” —Shanaz, who passed LEED AP BD+C Exam on the first try “Very Helpful! “I found LEED BD&C Exam Guide to be very detailed and very helpful. I plan to take the exam soon, and I feel fully prepared for it.” —Yousuf Asadzoi “Good book! “I had appeared for GA and passed. I loved the content and the underlined highlights. I read your book; it gave me insight and knowledge on how credits are applied. Some questions in your book helped me answer ones on the test. Good book, I'll go through it once again when I appear for AP.” —Haresh Vibhakar, AIIA (India), AIA, LEED Green Associate, Architect “A good outline “The book is an excellent outline to learn the necessary items required to study for the exam. It is not a comprehensive study guide in and of itself. Practice exam is good indicator of test preparation.” —Paul Levine “Solid LEED Study Guide “This is the kind of book I wish was available when I did my original LEED AP exam. It teaches you how to study, which is so important when school is a distant memory. The bulk of the book helps you review and memorize with mnemonics the concepts for each credit that you need to know for the exam. The questions are good representations of questions on the exam. I would recommend to anyone studying for their exam, that they: - First read the chapters in this book on how to study; - Second read the actual LEED BD+C guide to give you the background information on the credits and gain comprehension. Underline and review as the author indicates to get the most out of your study time. - Finally read the rest of this exam guide to help you review and memorize for the exam.” —missfitz missfitz “Very Helpful Guide “Gang Chen's LEED BD&C Exam Guides very helpful in consolidating information from USGBC and GBCI sources as well as providing the information that is necessary for the exam without excess irrelevant information. I highly recommend this book for preparation for the LEED BD+C exams.” —leedap

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administrator. Written for LEED AP professionals and building owners that need guidance navigating a project through the process, this book outlines each step in the design and construction phases including programming and post-occupancy. Serving as a valuable resource for anyone seeking information on how to get a project LEED certified, Guidebook to the LEED Certification Process features: An overview of the integrative design process. Understanding the role of a LEED consultant. How to build a successful team for a project pursuing LEED certification. How to register a project with Green Building Certification Institute (GBCI). Common pitfalls to avoid during the LEED certification process. Checklists to use during design and construction to keep the team on track.

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GUIDE TO THE LEED® GREEN ASSOCIATE V4 EXAM PASS THE LEED® GA V4 EXAM WITH THE HELP OF SOMEONE WHO'S BEEN THERE The Guide to the LEED® Green Associate V4 Exam is a motivating, engaging guide to LEED® design, packed with expert advice from one who has taken - and passed - the exam. Fully updated with the latest advances in sustainable design thought and technology, this book goes beyond traditional study guides to provide full coverage of the exam topics, plus expert tips on preparing and taking the exam itself. The information is organized clearly, with sample questions and flashcards throughout, and the companion website features additional study aids including interactive flashcards and practice exams. Understand the LEED® credentialing process, and the fundamental concepts of sustainable design Study the strategies and technologies of LEED® design, from site selection to atmosphere Discover how best to handle water, energy, and waste during the construction process Gain insight into effective exam prep methods, and know what to expect on test day Test your knowledge with practice exam questions and interactive flashcards on the companion website Professionals eager to prove their skills will find the Guide to the LEED® Green Associate V4 Exam to be an invaluable one-stop resource.

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A Practical Exam Guide for the ARE 5.0 Project Management (PjM) Division! To become a licensed architect, you need to have a proper combination of education and/or experience, meet your Board of Architecture's special requirements, and pass the ARE exams. This book provides an ARE 5.0 exam overview, suggested reference and resource links, exam prep and exam taking techniques, tips and guides, and critical content for the ARE 5 Project Management (PjM) Division. More specifically this book covers the following subjects: · ARE 5.0, AXP, and education requirements · ARE 5.0 exam content, format, and prep strategies · ARE 5.0 credit model and the easiest way to pass ARE exams by taking only 5 ARE divisions · Allocation of your time and scheduling · Timing of review: the 3016 rule; memorization methods, tips, suggestions, and mnemonics · Resource Management · Project Work Planning · Contracts · Project Execution · Project Quality Control This book will help you pass the PjM division of the ARE 5.0 and become a licensed architect! Can you study and pass the ARE 5.0 Project Management (PjM) exam in 2 weeks? The answer is yes: If you study the right materials, you can pass with 2 weeks of prep. If you study our book, "Project Management (PjM) ARE 5.0 Exam Guide (Architect Registration Examination) & "Project Management (PjM) ARE 5.0 Mock Exam (Architect Registration Examination), you have an excellent chance of studying and passing the ARE 5.0 Project Management (PjM) division in 2 weeks. We have added many tips and tricks that WILL help you pass the exam on your first try. Our goal is to take a very complicated subject and make it simple. "Project Management (PjM) ARE 5.0 Exam Guide (Architect Registration Examination) & "Project Management (PjM) ARE 5.0 Mock Exam (Architect Registration Examination) will save you time and money and help you pass the exam on the first try! ArchiteG®, Green Associate Exam Guide®, and GreenExamEducation® are registered trademarks owned by Gang Chen. ARE®, Architect Registration Examination® are

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leed reference guide: *Understanding Green Building Guidelines: For Students and Young Professionals* Traci Rose Rider, 2010-02-17 Summarizes the main issues and strategies of the forceful and fast-paced green building movement. Many professions are increasingly producing tools to assist clients in breaking down and understanding the different elements that reside under the umbrella of the sustainability movement. For the design and construction professions, this unpacking often takes the form of green building guidelines and rating systems. This book aims to look at a selection of both national and local green building rating systems and guidelines, ranging from commercial to residential. While the goal is to provide students and young professionals with a solid overview of each product, enabling them to understand the differences and select the most appropriate system for their chosen projects, the book provides valuable overviews and comparisons for anyone interested in better buildings: designers, homeowners, realtors, contractors, facility managers, site designers, and more.

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