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LEED GREEN ASSOCIATE EXAM
REFRESHER
ONLINE TRAINING BY KRISHNAJI PAWAR
LEED AP(BD+C),GSAS CGP,GCP,ISO 14001
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MODULE 16

Project Surroundings and Public Outreach

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The chapter discusses the environmental impact of built environments, sustainable design codes, and regional design.

Learning Objectives +

- Water efficiency
- Energy and Atmosphere
- Materials and Resources
- Indoor Environmental Quality
- Innovation and Regional Priority
- Project Surroundings and Public Outreach
- Summary and Resources
- LEED GA : Practice test

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INTRODUCTION

- Discusses environmental impacts of built environment.
- Highlights energy and resource use in conventional buildings.
- Discusses LEED® and green building codes.
- Highlights benefits of sustainable design: energy savings, healthier occupants, cost-saving incentives.
- Emphasizes regional focus on Sustainable Sites and Materials & Resources.

GREEN BUILDING REVOLUTION: A GLOBAL SOLUTION

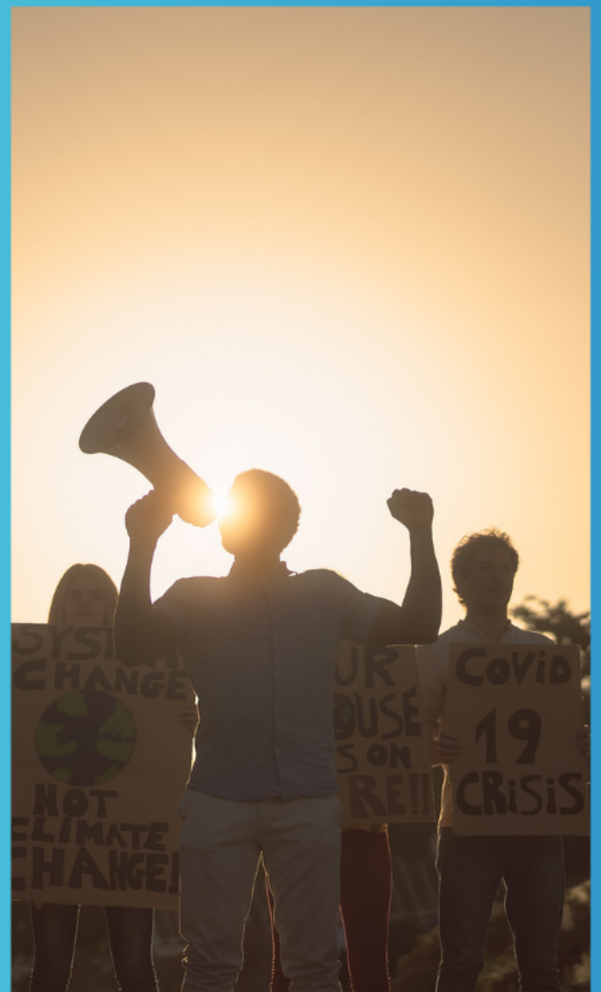
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- Inspired by understanding of how buildings use resources, affect people, and harm the environment.
- Recognized as a response to climate change, especially global warming.
- Commercial and residential buildings generate nearly half the US's carbon emissions.
- Green building saves carbon emissions and money through effective insulation, glazing, water heating, air-conditioning, lighting, and other energy-efficiency measures.
- Part of a paradigm shift towards sustain-ability, acknowledging current living methods are not sustainable in the long term.
- Green buildings can address global issues related to climate change, human health, and environmental quality.





IMPACT OF BUILDINGS ON ENVIRONMENT



- Buildings contribute to 12% of freshwater use, 30% of raw materials, 30% of greenhouse gas emissions, 45-65% of landfill waste, 31% of solid waste, and 7% of electricity consumption.
- Green buildings offer 30% energy, 30-50% water, 35% reduction in carbon emissions, and 50% reduction in construction waste.
- Governments and universities often design green buildings with a long-term perspective.
- The world's largest LEED Platinum-certified building is the Oregon Health & Science University's Center for Health and Healing.
- Integrated design is used for high-performing green buildings on conventional budgets.

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GREEN BUILDING MARKET DRIVERS

- The commercial and institutional green building market continues to grow by over 50% per year.
- The LEED rating system registered over 1,100 new projects in 2006, averaging about 120,000 square feet of gross building area per project.
- The total number of LEED-registered projects is predicted to increase more than threefold through 2010, and will continue to increase at more than 25% per year until 2012.
- The USGBC predicts an "explosion" in green building activity that could increase these estimates dramatically within the next three to five years.
- Green building growth is expected to outpace the general growth of the building industry over the next five years.
- Tax incentives for residential solar electric and water heating systems and homebuilders are expected to spur more such homes.





BEYOND LEED IN GREEN BUILDING INDUSTRY



- Exploring "restorative" or "regenerative" buildings and neighborhoods.
- Aiming to provide power, water, restore habitat, and restore natural stream drainage patterns.
- Utilizing renewable energy systems.
- Energy Policy Act of 2005's solar energy tax credits facilitating integrated photovoltaics and solar water heating.
- Architect Gail Lindsey advocates for moving beyond LEED.
- Programs like the Living Building Challenge encourage minimal ecological footprint.
- USGBC plans to change LEED by 2008 to reduce carbon dioxide emissions, respond to regional environmental and energy issues, and assess building systems and materials.

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