

OVERVIEW:

What is Green Building?

Why should I be Green?

What Can Green Do for Me?

How do I Become Green?

What are Green Materials?

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Green Building

Green Building

AWARENESS

Changing views of the Green Movement



From the Extreme to Mainstream

Green Building

Whole-house approach to viewing building systems and components to achieve human, environmental, and technical goals.

- Reduce energy use.
- Improve indoor air quality.
- Responsible / efficient use of land.
- Reduce construction material waste.
- Minimize water usage.



Why Be Green?

Why Be Green?

“ We don’t inherit the Earth, we borrow it from our children.” –
Chief Seattle



In what condition are we going to give it back?

Why Be Green?

- 90% of our time is spent indoors.
- Worldwide, buildings consume nearly 40% of the world's energy, 25% of its wood, and 15% of its water.
- 40% of landfill debris is from building construction alone.
- Humans use 95 tons of coal, 40,000 gallons of oil and 3 million cubic feet of natural gas every second of every day.

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Green Benefits

Green Benefits



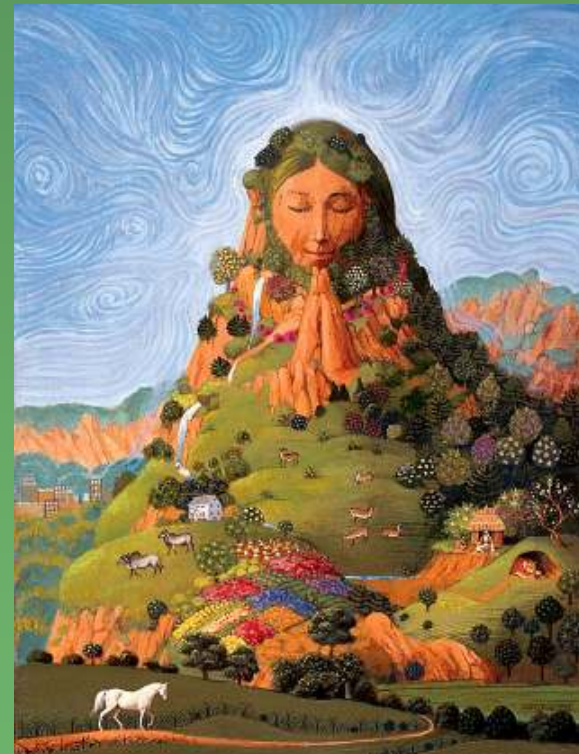
Green Benefits

- Natural light reduces fatigue.
- Reduced airborne contaminants can reduce medication levels of allergy sufferers.
- Minimizing waste reduces construction costs.
- Efficient mechanical systems use less fuel and are more economical to operate.
- Many green products are more durable than conventional materials.
- Green building practices have been shown to pay for themselves by reducing future operating costs.



Becoming Green

Becoming Green



Becoming Green

– Rating Systems for Construction

- USGBC LEED Home (Pilot Version)
- US EPA Energystar
- NAHB National Green Building Program (launches Feb. 2008)

Becoming Green

– Rating Systems for Products

- Green Seal
- Green Guard
- Green Label Plus
- Cradle to Cradle Certification
- Energystar

Becoming Green

– Qualifications for Professionals

- LEED AP
- WaterSense
- North American Board of Certified Energy Practitioners (NABCEP) – Certification of Photovoltaic Systems Installers

Becoming Green

– Bibliography Items

- “Biomimicry” Janine M. Benyus
- “Cradle to Cradle” William McDonough & Michael Braungart
- “The Sustainable Revolution: Portrait of a Paradigm Shift” Andres R. Edwards
- “Building Without Borders: Sustainable Construction for the Global Village” Joseph F. Kennedy, editor
- “Learning to Count What Really Counts: The Economics of Wholeness” Tom Bender
- “Our Ecological Footprint: Reducing the Human Impact on the Earth” Mathis Wackernagel

Becoming Green – Take Action Now

16 Ways to Green your Home:

Lower Your Utility Bills

1. Switch to Compact Fluorescent Light Bulbs.
2. Program Your Thermostat.
3. Plug Air Leaks.
4. Tune Up Your Heating and Cooling System (HVAC).
5. Choose Energy Star Appliances.

Becoming Green – Take Action Now

16 Ways to Green your Home:

Lower Your Utility Bills

6. Reduce Water Use.
7. Switch to Green Power.

<http://www.eere.energy.gov/greenpower/index/shtml>.

Choose Green Products

8. Buy Local.
9. Use Low-VOC Products.
10. Use Wood Alternatives or FSC-certified Wood Products.

Becoming Green – Take Action Now

16 Ways to Green your Home:

Choose Green Products

11. Use Rapidly Renewable Flooring Materials.

Green Your Yard


12. Plant Trees to Provide Shade and Wind Protection for Your House.
13. Use Native Plantings.
14. Use Nontoxic Gardening Techniques.

Becoming Green – Take Action Now

16 Ways to Green your Home:

Green Your Transportation

15. Carpool, Use Public Transportation, Walk or Bike When Possible.
16. Buy a High-Efficiency Car.

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Green Materials

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Green Materials

Recycled content – Post Industrial/Pre Consumer
vs. Post Consumer

Rapidly Renewable Resources

Low Emitting Materials

Materials From a Local Source

FSC Certified Wood

Green Cleaning Methods

Green Material Selection

Lisa Frasure, NCIDQ, LEED AP

Innerspace Interiors

Nathan Lahr

Fanning Howey Associates Inc.