Have you ever thought about living in a “green” house, one that is healthy for you and your family and helps conserve the Earth’s resources?

5 Principles of Sustainability
18 Ways to Go Green
58 Innovative Green Building Products
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Whether you are building a new home, renovating an existing one, or looking to make a few changes in your living habits, every household can incorporate features that support the conservation of the environment and improve our quality of life. As environmental concerns continue to mount worldwide, integrating more sustainable practices and products into our lives becomes increasingly important. There is growing popular interest in green living and the possibilities for achieving it in our homes are rapidly expanding. Because buildings consume enormous quantities of the Earth’s resources in their construction and daily operation, they represent tremendous opportunities for innovative eco-friendly design as well as cost savings. The Green House demonstrates the emerging collaboration between stylish architecture, interior design, and environmental responsibility. Home is where going green begins—where we as individuals have the power to set a new course for a more sustainable future.
Optimizing Use of the Sun

Most of us rely on oil, coal, natural gas, and other fossil fuels to heat and cool our homes. Not only are these resources expensive and polluting, they are also being rapidly depleted. A simple and cost-effective alternative is to plug your house into the sun by either active or passive strategies.

Active strategies use solar panels that turn the sun’s heat into energy.

Adopting passive strategies means doing some of the following:

- Design and orient the house to minimize summer afternoon solar heat gain and optimize winter solar heat gain. In the northern hemisphere, this means orienting the long sides of the house to face south and north and creating roof overhangs and landscaping that shade the east, south, and west sides of the house.

- Situate the house to take advantage of prevailing breezes during the spring, summer, and fall. Not only are these breezes valuable for cross-ventilation in the house, but they can make screened-in rooms and porches more comfortable places to live.

- Plant shade trees and shrubs around your house. In summer, well-placed foliage helps keep the house cool, while bare branches in winter let the sunlight through to warm the house.

smart move Join thousands of others in turning to solar energy as a renewable, clean, and cost saving alternative to fossil fuels.

The world’s oil reserves are expected to last about 40 more years.

Natural gas reserves may last 67 years.

The sun’s energy supply will last billions of years.
Improving Indoor Air Quality

Americans spend up to 90 percent of their time indoors where air quality can be more polluted than outdoors. Pollutants range from toxins, such as asbestos and formaldehyde found in building materials, to allergens such as mold, mildew, fungus, bacteria, and dust mites. The negative effects of these pollutants may cause health problems upon initial exposure or even many years later.

There are measures that can be taken to improve indoor air quality:

- Choose ventilation systems that remove dirt, dust, moisture, humidity, and pollutants.
- Seal off the garage from the house to eliminate fumes from cars and lawn mowers.
- Select materials, such as those without formaldehyde, that limit off-gassing, have minimal or no toxic properties, and do not shed dust or fiber.
- Test your home for toxins that influence air quality with a do-it-yourself kit or hire a specialist.
- Use the exhaust fan over your stove to remove gases like carbon monoxide. Use fans in the bathroom to remove water vapors that can cause molds to grow.

Indoor air pollution consistently ranks among the top five environmental risks to public health.

**smart move** Improve air quality in your home by increasing ventilation, choosing non-toxic materials, and using air filters to remove up to 95% of airborne pollutants.
Using the Land Responsibly

You can create a sustainable house by making good use of the land your house sits on and by considering the impact of the house on the surrounding environment. When looking to buy a new home, consider the following advantages:

- Buy a smaller, more compact house on a lot that is located near work, public transportation, and community services to save fuel and money.
- Choose a neighborhood where houses are clustered closer together, leaving more open space for residents to enjoy and helping to preserve the natural landscape.
- Adopt smart gardening practices like using organic pesticides and composts, as well as native plants that do not require extensive irrigation systems.
- Use landscaping rather than paved surfaces, which impede storm water infiltration, often resulting in the contamination of local water sources.

smart move  Vote to conserve wilderness areas and support one of the 240 anti-sprawl initiatives across America.

Every year sprawling development engulfs 1 million acres of open space.
Creating High-Performance and Moisture-Resistant Houses

The roof, walls, windows, and doors of a house create an envelope that protects residents from the weather and intruders, including pests, noise, and dirt. It also controls the entry of sunlight and, most importantly, helps maintain indoor comfort. Maintaining a constant level of comfort is often wasteful and expensive but can be done efficiently and economically by the following means:

» Create a building envelope with more durable and energy-efficient materials that reduce drafts, balance room temperatures, control moisture, and save on heating and cooling costs.

» Seal any gaps or cracks where moisture can get in and heat or cooling can leak out.

» Schedule a home energy audit. Many utilities offer them for free and the expert advice can result in big energy savings.

According to recent estimates, the United States consumes more energy than any other nation, accounting for 22.8% of the world’s total energy use. Nearly one quarter of that share is used to power our homes.

smart move By sealing air leaks and using energy-efficient technologies in your home, you can significantly reduce your energy consumption and cut your bills by up to 80%.
Wisely Using the Earth’s Natural Resources

The earth provides us with a finite amount of natural resources and it is our responsibility to make them last. It is also up to us to use these resources in ways that are not detrimental to the environment or our health.

With the mainstreaming of sustainable design has come a dramatic increase in new green materials and products. Such green materials create houses that are good for their occupants’ health and bank accounts, as well as the environment. Whether building a new house or apartment or renovating an existing one, green materials are essential. By building, renovating, and equipping your home with green materials, you can preserve natural resources such as old-growth forests and fresh water systems. Selecting green materials typically involves an assessment of a product’s environmental impact over its life cycle. This process tracks the raw materials used to make a product; its manufacturing process; its transportation; its performance when it is used; and its disposal, reuse, or recycling options. When choosing materials and products look for:

**High levels of:**
- Renewability
- Reusability
- Durability

**Low levels of:**
- Embodied energy, the energy required to extract, process, and transport materials
- Environmental impact, the negative effects on outdoor and indoor environments

**smart move** By choosing wood products certified by the international Forest Stewardship Council, you can help ensure that our ancient forests don’t disappear. Visit [www.fsc.org](http://www.fsc.org) for more information.

Less than 20% of the world’s old growth forests remain today.
Prefabricated: Standardized building sections that are created in a factory to be shipped and assembled in another location.

Footprint: Land area taken up by a building.

Energy Smart: Meeting your energy needs cost effectively and with the least impact on the environment.

Fossil Fuels: Carbon-rich deposits in the earth, such as petroleum (oil), coal, or natural gas, derived from the remains of ancient plants and animals and used for fuel.

Photovoltaic cell: A device that converts sunlight into electricity.

Sustainability: Meeting the needs of the present without depleting resources or harming natural cycles for future generations.

Off-gassing: The release of gas into the air from products treated with chemicals during their manufacture.

Envelope: The skin of a building—including the windows, doors, walls, foundation, basement slab, ceilings, roof, and insulation—that separates the interior of a building from the outdoor environment.

Renewable Energy: Energy derived from sources that do not deplete natural resources. Examples include solar, wind, and geothermal energy from the Earth’s core.

Geothermal energy: Heat that comes from the Earth’s interior.

Radiant Heating: An efficient heating system that warms cold objects, which then radiate heat into the surrounding space evenly.

Off-the-Grid: A term used to describe a system that runs on renewable energy sources independent of a conventional public utility grid.

Renewability: Choose natural materials that are rapidly renewable such as fast-growing trees and agricultural products.

Reusability: Seek out products that can be reused or recycled once they are no longer needed or operable.

Durability: Select products that are long-lasting and require little maintenance.

Embodied energy: Consider how much energy was required to extract, process, package, transport, install, and recycle or dispose of materials that make up your home. Up to 70% of the total energy invested in a building’s construction is embodied in the materials themselves.

Environmental impact: Avoid materials that pollute the environmental quality inside your home and damage the outdoor environment and atmosphere.
Environmental Ratings and Certifications are international programs that have established sustainability and efficiency standards for buildings and products.

Cradle-to-cradle
Cradle-to-cradle is a certification system, established by architect William McDonough, which evaluates products by measuring positive impacts on the environment, human health, and social equity. The term is also a philosophy based on the idea that products should be designed so that when they are no longer useful, they provide fuel for new products or natural cycles, eliminating waste. www.mcdonough.com/cradle_to_cradle.htm

ENERGY STAR
The ENERGY STAR program, managed by the Environmental Protection Agency (EPA) and the Department of Energy (DOE), has proven to be an effective tool to help consumers choose energy-efficient products for their homes, preserving natural resources and lessening greenhouse gas emissions, as well as reducing consumers’ energy bills. ENERGY STAR labels can be found on appliances, televisions, heating and cooling equipment, electronics, and even new homes. A product or home with the ENERGY STAR label means that it meets the efficiency guidelines set by the EPA and the DOE.

With the use of ENERGY STAR certified appliances, homes, and non-residential buildings, Americans saved 150 billion kilowatt hours of electricity in 2005, or four percent of the national electricity demand. They also reduced greenhouse gas emissions equivalent to the amount generated every year by approximately 23 million gasoline-powered cars. Energy-efficient consumers also save money; ENERGY STAR households have been found to save up to 30 percent annually on their energy bills.

www.energystar.gov

Forest Stewardship Council (FSC)
The Forest Stewardship Council (FSC) is an independent, non-profit organization that promotes voluntary, third party certification of sustainably-managed forests. FSC “certifiers” evaluate forests based on management practices in three areas: sustainable harvest, ecosystem health, and community benefits. Scientists and foresters examine and measure the impact of forest practices on wildlife and their habitat, water quality, soil and plant conservation, natural forest sustainability and biodiversity, visual aesthetics, and the total ecological integrity of the forest. The FSC logo on a product provides consumers with an assurance that the wood they use comes from forests managed in an environmentally and socially responsible manner.

www.fscus.org
GREENGUARD Certification Standards for Low Emitting Products for the Indoor Environment
The Greenguard Environmental Institute (GEI) is a non-profit organization that has established performance-based standards to identify the emissions levels of products typically used inside the home. During the testing process, products are placed in a sealed chamber through which purified air is poured. The resulting exhaust is then tested for various pollutants including formaldehyde, volatile organic chemicals, respirable particles, and carbon monoxide. If the emissions levels are below a certain level, products can qualify for Greenguard certification. Products that can be tested include building materials, furniture, cleaning and maintenance products, electronic equipment, and personal care products.

www.greenguard.org

LEED® (Leadership in Energy and Environmental Design) Green Building Rating System™
LEED was developed by the U.S. Green Building Council (USGBC) as a voluntary national standard for developing high-performance, sustainable buildings. LEED emphasizes state-of-the-art strategies for sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. LEED recognizes achievements and promotes expertise in green building through a comprehensive system offering project certification, professional accreditation, training and practical resources.

www.usgbc.org

National Association of Homebuilders
The National Association of Home Builders’ Model Green Home Building Guidelines are designed to move environmentally friendly home building concepts further into the mainstream marketplace. Using these model guidelines, local home builder associations create voluntary programs that include fundamental green building principles, which reflect local geographic conditions or preferences. The guidelines’ six main topic areas include lot preparation and design, resource efficiency, energy efficiency, water efficiency and conservation, occupant comfort and indoor environmental quality. www.nahb.org/gbg

Rainforest Alliance Certification
Rainforest Alliance certification is a process that promotes and guarantees improvements in agriculture, forestry, and travel. Goods and services with their certification are ensured to have been produced in compliance with guidelines created to protect the environment, wildlife, workers, and local communities. www.rainforest-alliance.org
Materials used in the design of *The Green House* exhibition

**Benjamin Moore® Premium Latex Paint**

**COLORS:** #426 Fresh Grass, #623 Deep Sea, #552 Pleasant Grove, #705 Sioux Falls, #HC-118 Sherwood Green, #739 Un-teal we meet again, #525 Savannah Shade, #581 Floradale Isle

**FINISH:** Flat

**MANUFACTURER:** Benjamin Moore & Co.

Gift of the manufacturer

www.benjaminmoore.com

All Benjamin Moore® paints listed throughout this Guide are exclusively available at your local Benjamin Moore® store.

**Plyboo bamboo plywood**

**FINISH:** Amber

**MANUFACTURER:** Smith & Fong Plyboo®

Gift of the manufacturer

www.plyboo.com

**Edipo cork plank flooring**

**COLORS:** Charcoal, griegie, infinity blue, bleach, primavera, red terracotta

**MANUFACTURER:** Duro-Design

www.duro-design.com

**Bamboo flooring**

**COLORS:** Cinnamon red, mountain white, foundation brown, amber

**MANUFACTURER:** Smith & Fong Plyboo®

Gift of the manufacturer

www.plyboo.com

**FLOR House Pet carpet tiles**

**COLOR:** Frog

**MATERIALS:** Polyester and nylon

**DESIGNER AND MANUFACTURER:** Interface, Inc.

www.interfaceinc.com

Special thanks to Apartment Zero, Washington, D.C., www.apartmentzero.com

**Entropy carpet tiles**

**COLOR:** Chameleon

**MANUFACTURER:** Interface, Inc.

www.interfaceinc.com

**Dakota Burl™ composite board**

**MATERIAL:** Agricultural waste

**MANUFACTURER:** Environ Biocomposites™, LLC

www.environbiocomposites.com

**Strata and Solo Clear ECOresin™**

**MANUFACTURER:** 3form, Inc.

www.3-form.com

**Permeable interlocking concrete pavement**

**MATERIALS:** Portland cement

**MANUFACTURERS:** Balcon, an Oldcastle Company

Gift of the manufacturer with support from the Interlocking Concrete Pavement Institute and the Portland Cement Association

Furniture and products featured in Glidehouse™ interior

**Lokseam standing metal roof**
- **COLOR:** Tundra
- **MANUFACTURER:** MBCI Metal Roof and Wall Systems
- Gift of the manufacturer
- www.mbci.com

**PBC wall panels/siding**
- **COLOR:** Sandstone Metallic
- **MANUFACTURER:** MBCI Metal Roof and Wall Systems
- Gift of the manufacturer
- www.mbci.com

**Brasilia™ wood composite decking**
- **COLOR:** Burnished Amber
- **MATERIALS:** Reclaimed wood and plastic
- **MANUFACTURER:** Trex Company, Inc.
- Gift of the manufacturer
- www.trex.com

**Interlocking concrete pavement**
- **MATERIALS:** Portland cement
- **MANUFACTURERS:** Balcon, an Oldcastle Company
- Gift of the manufacturer with support from the Interlocking Concrete Pavement Institute and the Portland Cement Association

**SCRAPILE Dining Table**
- **MATERIALS:** Repurposed scrap wood
- **DESIGNER AND MANUFACTURER:** Carlos Salgado and Bart Bettencourt for SCRAPILE
- Gift of the designer and manufacturer
- www.scrapile.com

**Twig bench**
- **MATERIALS:** Coppiced hazel wood
- **DESIGNER AND MANUFACTURER:** Russell and John Pinch for PINCH Design
- Gift of the designer and manufacturer
- www.pinchdesign.com

**Giro stool**
- **COLOR:** Tomato
- **MATERIALS:** Bamboo with lacquer finish
- **DESIGNER:** Ekobo®
- www.ekobo.org

**Modern Birdhouses™ Richard Neutra style birdhouse**
- **MATERIALS:** Sustainably-harvested teak, aluminum, stainless steel
- **DESIGNER:** Dail Dixon for Wieler Holdings, LLC
- www.modernbirdhouses.com

**bambu veneerware**
- **MATERIALS:** Organically-grown bamboo
- **MANUFACTURER:** bambu, llc
- www.bambuhome.com

**Candleloo lamps**
- **MATERIALS:** Plastic, rechargeable batteries
- **DESIGNERS:** Duane Smith and Stephan Barbeau
- www.vesselinc.com

Products and materials used throughout Glidehouse™

**Benjamin Moore® Paint**
- **Eco Spec® low-VOC Latex**
  - **COLOR:** #OC-64 Pure White
  - **FINISH:** Flat
  - **MANUFACTURER:** Benjamin Moore & Co.
  - Gift of the manufacturer
  - www.benjaminmoore.com

**Bamboo flooring**
- **COLOR:** Amber
- **MANUFACTURER:** Smith & Fong Plyboo®
- Gift of the manufacturer
- www.plyboo.com

**400 Series Awning Windows, 400 Series Skylight, 400 Series Sliding Glass Doors**
- **MATERIALS:** Wood clad terratone with High Performance™ Low E tempered glass
- **MANUFACTURER:** Andersen Corporation
- www.andersenwindows.com
Furniture and products in Glidehouse™ Living Room

**FLOR Terra™ carpet tiles**
COLOR: Furrows
DESIGNER AND MANUFACTURER: Interface, Inc.
www.interfaceinc.com
Special thanks to Apartment Zero, Washington, D.C., www.apartmentzero.com

**Boston lounge sofa**
MATERIALS: Cotton, maple frames, water based glue
DESIGNER AND MANUFACTURER: Donna Halloran for Furnature™
Gift of the designer and manufacturer
http://shop.store.yahoo.com/furnatureonline

**Messenger upholstery fabric**
COLOR: Balsa
MATERIALS: 78% post-industrial recycled polyester
DESIGNER AND MANUFACTURER: Maharam
Gift of the designer and manufacturer
www.maharam.com

**Risom lounge chairs**
MATERIALS: Maple and natural cotton webbing
DESIGNER: Jens Risom
MANUFACTURER: Knoll, Inc.
Gift of the manufacturer
www.knoll.com

**Knock-Down/Drag-Out chair**
MATERIALS: Maple plywood with Chinese red finish
DESIGNER AND MANUFACTURER: Christopher Douglas for Material Furniture, Inc.
Gift of the designer and manufacturer
www.materialfurniture.com

**Flipper Screen**
MATERIALS: Maple plywood with black walnut finish
DESIGNER AND MANUFACTURER: Christopher Douglas for Material Furniture, Inc.
Gift of the manufacturer
www.materialfurniture.com

**Gotham Rocker**
MATERIALS: Sustainably-certified European Beech with clear finish, automobile seat belt material remnants
DESIGNER AND MANUFACTURER: Peter Danko Design
Gift of the designer and manufacturer
www.peterdanko.com

**Mucci coffee table**
MATERIALS: ECOresin™, steel
DESIGNER: K_now designers
MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

**Giro stool**
COLOR: Kiwi
MATERIALS: Bamboo with lacquer finish
DESIGNER AND MANUFACTURER: Ekobo
www.ekobo.org

**W Magazine Stand**
MATERIALS: Molded plywood
DESIGNER AND MANUFACTURER: OFFI & Company
www.offi.com
**Madrid cabinets**

**COLOR:** Honey Maple  
**MATERIALS:** Solid maple, plywood, maple veneer  
**MANUFACTURER:** Brighton Cabinetry, Inc.  
Gift of the manufacturer  
www.brightoncabinetry.com

**Richlite® countertop**

**MATERIALS:** Paper fiber composite and recycled content  
**MANUFACTURER:** Richlite Company  
Gift of the manufacturer  
www.richlite.com

**NES Series Electric 4-burner cooktop**

**COLOR:** Black  
**MANUFACTURER:** Bosch home appliances  
Gift of the manufacturer  
www.boschappliances.com

**Downdraft ventilation system**

**MATERIALS:** Stainless steel  
**MANUFACTURER:** Bosch home appliances  
Gift of the manufacturer  
www.boschappliances.com

**700 Series Single convection oven**

**MATERIALS:** Stainless steel  
**MANUFACTURER:** Bosch home appliances  
Gift of the manufacturer  
www.boschappliances.com

**Integra™ 800 Series dishwasher**

**MATERIALS:** Stainless steel  
**MANUFACTURER:** Bosch home appliances  
Gift of the manufacturer  
www.boschappliances.com

**Evolution™ refrigerator**

**MATERIALS:** Stainless steel  
**MANUFACTURER:** Bosch home appliances  
Gift of the manufacturer  
www.boschappliances.com

**Poise™ single-basin undercounter kitchen sink with Coralais® Decorator single-control pullout spray kitchen sink faucet**

**MATERIALS:** Stainless steel  
**DESIGNER AND MANUFACTURER:** Kohler Co.  
www.kohler.com

**Helios pendant lamps**

**MATERIALS:** Hand-blown glass, aluminum, bamboo  
**DESIGNER AND MANUFACTURER:** Jeffery Goodman for jGoodDesign  
Gift of the designer and manufacturer  
www.jgooddesign.com

**Arbor dining room chairs**

**MATERIALS:** Sustainably certified European Beech with clear finish, automobile seat belt material remnants  
**DESIGNER AND MANUFACTURER:** Peter Danko Design  
Gift of the designer and manufacturer  
www.peterdanko.com

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**Did you know?**

**American buildings account for:**

- 2/3 of U.S. electricity consumption  
- 1/3 of U.S. energy use  
- 30% of U.S. greenhouse gas emissions  
- 1/8 of U.S. potable water use  
- 2.8 pounds per person everyday of U.S. construction and demolition waste  
- 40% of global raw materials use (3 billion tons/yr)

**The average American home consumes:**

- 13,127 ft\(^2\) of framing lumber  
- 6,212 ft\(^2\) of sheathing (OSB, plywood, etc)  
- 13.37 tons of concrete  
- 2335 sq ft of exterior siding  
- 6144 sq ft of interior wall materials (sheetrock)  
- 3100 sq ft of roofing material

**SOURCE:** The National Association of Homebuilders
Knock-Down/Drag-Out table
MATERIALS: Maple plywood with natural finish
DESIGNER AND MANUFACTURER: Christopher Douglas for Material Furniture, Inc.
Gift of the designer and manufacturer
www.materialfurniture.com

Europa barstools
MATERIALS: Maple with ebony stain, stainless steel
DESIGNER AND MANUFACTURER: Peter Danko Design
Gift of the designer and manufacturer
www.peterdanko.com

Forest Leaf Collection candlesticks
MATERIALS: Recycled cast aluminum and beeswax candle
DESIGNER AND MANUFACTURER: Michael Aram
www.michaelaram.com

Flatware utensils
MATERIALS: Organically grown bamboo with food safe oil finish
DESIGNER AND MANUFACTURER: bambu, LLC
www.bambuhome.com

Cho condiment dishes with spoons
COLORS: Kiwi and Lime
MATERIALS: Bamboo with lacquer finish
DESIGNER AND MANUFACTURER: Ekobo
www.ekobo.org

Plato tray
COLOR: White
MATERIALS: Bamboo with lacquer finish
DESIGNER AND MANUFACTURER: Ekobo
www.ekobo.org

Tempo platter
COLOR: Ash blue
MATERIALS: Bamboo with lacquer finish
DESIGNER AND MANUFACTURER: Ekobo
www.ekobo.org

Branch Vidreco carafe and tumblers
MATERIALS: Recycled glass
DESIGNERS: La Mediterranea
www.la-mediterranea.com

TranSglass vase
MATERIALS: Reclaimed glass wine bottle
DESIGNERS: Emma Wolflenden and Tord Boontje
MANUFACTURER: Artecina
www.tordboontje.com

Schaschlik knife block
MATERIALS: Yellow pine and bamboo skewers
DESIGNER AND MANUFACTURER: Martin Robitsch
www.greenergrassdesign.com

FR300 multi-purpose radio with hand-crank power generator
MATERIALS: Plastics
DESIGNER AND MANUFACTURER: Etón Corporation
www.etoncorp.com

Foundling Rabbit
MATERIALS: 100% organic cotton
DESIGNER AND MANUFACTURER: Hugg-A-Planet
www.huggaplant.com

LoooloLo blanket
MATERIALS: Certified organic, Climatex Lifestyle™ yarns
DESIGNER AND MANUFACTURER: Joanna Notkin for Looolo Textiles
www.looolo.ca

Solar voltaic backpack
MATERIALS: 840D nylon, UV-resistant polyurethane, nylon mesh
DESIGNER AND MANUFACTURER: Voltaic Systems, Inc.
www.voltaicsystems.com

WABI shoes
MATERIALS: Thermoplastic elastomers (TPE) recyclable material with inner sock and coconut fiber insole
DESIGNER AND MANUFACTURER: Camper
www.camper.com

Huggy sports balls
MATERIALS: Natural flocked foam rubber
DESIGNER AND MANUFACTURER: Hooray LLC
www.huggybuggy.com

Stapleless stapler
MATERIALS: Plastic
DESIGNER AND MANUFACTURER: Walter Windisch

Recycled pencils and pens
MATERIALS: Recycled wood, currency, plastic, paper, denim, biodegradable ink

Eco-friendly note cards
MATERIALS: Lokta plant fiber and recycled paper
MANUFACTURER: Waste Not Paper Company
www.wastenotpaper.com
Furniture and products in Glidehouse™ Bathroom

**Madrid cabinets**
COLOR: Honey Maple
MATERIALS: Solid Maple, plywood, maple veneer
MANUFACTURER: Brighton Cabinetry, Inc.
Gift of the manufacturer
www.brightoncabinetry.com

**Richlite® countertop**
MATERIALS: Paper fiber composite and recycled content
MANUFACTURER: Richlite Company
Gift of the manufacturer
www.richlite.com

**Traffic Tread recycled glass floor tile**
COLOR: Charcoal
DESIGNER AND MANUFACTURER: Terra Green Ceramics
Gift of the designer and manufacturer
www.terragreenceramics.com

**Axxis™ washer and Axxis vented dryer**
COLOR: White
MANUFACTURER: Bosch home appliances
Gift of the manufacturer
www.boschappliances.com

**Timpani Vessels countertop lavatory with Falling Water® wall-mount lavatory faucet**
MATERIALS: Stainless steel in satin finish
DESIGNER AND MANUFACTURER: Kohler Co.
www.kohler.com

**San Raphael™ Power Lite one-piece toilet with Twin-Touch Actuator**
COLOR: White
DESIGNER AND MANUFACTURER: Kohler Co.
www.kohler.com

**ShektaSTONE soap dish**
MATERIALS: Recycled paper
DESIGNER AND MANUFACTURER: Stanley J. Shetka for ShetkaSTONE
www.shetkastone.com

**Thrash Can**
MATERIALS: Recycled tires, recycled plastic, aluminum
DESIGNER AND MANUFACTURER: Normal Design, LLC
www.normalstuff.net

Products in Glidehouse™ Mechanical Room / Insulation Cutaways

**High Velocity Soft Air HVAC system**
MANUFACTURER: Select Mechanical and Design
Gift of the manufacturer
www.selectmds.com

**AquaStar 250SX Tankless Water Heater**
MANUFACTURER: Bosch Water Heating
Gift of the manufacturer
www.boschusa.com

**HTP-1 Hi-Temp Supply Panel**
MANUFACTURER: HPS Controls
Gift of the manufacturer
www.hpscontrols.com

**The Icynene Insulation System®**
Spray-in place formula
MANUFACTURER: Icynene®
Gift of Insealators of Maryland and Virginia
www.icynene.com

**Fiber optics lighting system**
MANUFACTURER: Band, Inc.
Gift of the manufacturer
www.bandinc.net

**SP-200 Sun-Pure photo-catalytic air purification system**
MANUFACTURER: Ultra-Sun Technologies
Gift of the manufacturer
www.ultrasun.com
Ceiling Finishes

**Beargrass ECOresin™ panel**
MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

**Benjamin Moore® paint**
**Eco Spec® low-VOC Latex**
COLOR: #1459 Metro Gray
FINISH: Flat
MANUFACTURER: Benjamin Moore & Co.
Gift of the manufacturer
www.benjaminmoore.com

**ECOresin™ panel with matte finish**
COLOR: Pure Silver
MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

Wall Finishes

**3-D V2 recycled wallpaper**
COLOR: White
MANUFACTURER: MIO Co, LLC
Gift of the manufacturer
www.mioculture.com

**Natural clay plaster with troweled finish**
COLOR: Santa Barbara verde
MANUFACTURER: American Clay Enterprises
Gift of the manufacturer
www.americanclay.com

**Recycled fabric wall covering**
COLOR: Salmon river
MANUFACTURER: Sina Pearson Textiles
Gift of the manufacturer
www.sinapearson.com

**Dakota Burl™ agricultural waste composite board**
COLOR: Red stain
MANUFACTURER: Environ Biocomposites™, LLC
www.environbiocomposites.com

**Edipo cork wall covering**
COLOR: Azure
MANUFACTURER: Duro-design
www.duro-design.com

**Abaca textile wall covering**
COLOR: Bisque
MANUFACTURER: Maharam
Gift of the manufacturer
www.maharam.com
**Benjamin Moore® paint**
*Eco Spec® low-VOC Latex*
COLOR: #310 Popcorn Kernel
FINISH: Flat
MANUFACTURER: Benjamin Moore & Co.
Gift of the manufacturer
www.benjaminmoore.com

**ECOVerings ECO-Gres™ tile**
COLOR: Tiffany white
MATERIAL: Porcelain
MANUFACTURER: COVERINGS ETC.
Gift of the manufacturer and Amicus Green Building Center
www.amicusgreen.com

**Plexwood**
COLOR: Birch
MANUFACTURER: Plexwood
Gift of the manufacturer
www.plexwood.nl

**Innvironments® Eco-Suede wall covering**
COLOR: Hickory
MANUFACTURER: Innovations in Wallcoverings, Inc.
Gift of the manufacturer
www.innovationsusa.com

**Innvironments® paper-weave six-by-six wall covering**
COLOR: Silverweed
MANUFACTURER: Innovations in Wallcoverings, Inc.
Gift of the manufacturer
www.innovationsusa.com

**Recycled glass tile**
COLOR: Mosaic Ice Blend
MANUFACTURER: Sandhill Industries
Gift of the manufacturer
www.sandhill.com

**Cabinet Finishes**

**IceStone® recycled glass and concrete countertop**
COLOR: Forest Fern
MANUFACTURER: IceStone Durable Surfaces
Gift of the manufacturer
www.icestone.biz

**ALKEMI resin and recycled aluminum countertop**
COLOR: Natural 10
MANUFACTURER: Renewed Materials, LLC
Gift of the manufacturer
www.renewedmaterials.com

**Thatch ECOresin™ panel**
MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

**Recycled paper composite**
COLOR: Grey
MANUFACTURER: PaperStone™
Gift of the manufacturer
www.paperstone.com

**Recycled composite countertop material**
COLOR: Indigo
MANUFACTURER: Richlite Company
Gift of the manufacturer
www.richlite.com

**Recycled glass tile**
COLOR: Mosaic Ice Blend
MANUFACTURER: Sandhill Industries
Gift of the manufacturer
www.sandhill.com

**Counter Finishes**

**Dakota Burl™ agricultural waste composite board**
STAIN: Dark grey
MANUFACTURER: Environ Biocomposites™, LLC
www.environbiocomposites.com

**Kirei sorghum composite board**
MANUFACTURER: Kirei USA
Gift of the manufacturer
www.kireiusa.com

**Dakota Burl™ agricultural waste composite board**
STAIN: Natural
MANUFACTURER: Environ Biocomposites™, LLC
www.environbiocomposites.com

**Strata ECOresin™ panel**
COLOR: Agate
MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

**Plyboo bamboo plywood**
COLOR: Natural
MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.plyboo.com
Not all Bamboo is the same

Bamboo has become a very popular “green” material in recent years. It is often labeled as sustainable because it is a fast growing grass—not wood—that can be harvested in a few years instead of several generations for most wood species. But it is worthwhile to also consider some other factors when selecting bamboo as a sustainable and healthy choice for your home.

Out of the over 1,200 species of bamboo in existence, the Moso bamboo species (Phyllostachys h. pubescens) is the optimal choice for use in plank floors. The bamboo should be properly aged and only the middle section of each stalk should be used to ensure appropriate strength and moisture content. Some bamboo plantations still use pesticides, chemical fertilizers, and other methods that endanger the local ecosystem and workers. And some may use glues and sealants that off-gas into your room, impacting your family’s health. As well, they may not use precision milling to ensure proper construction and long-term performance and may not dry the bamboo appropriately. Check to see if the bamboo supplier you choose visits the plantation regularly for quality control and to minimize milling defects. Finally, consider also the bamboo’s embodied energy, which is affected by the resources utilized during its travel from plantation to your home.

When shopping for bamboo flooring, inquire about the species, harvesting site and practices, other materials used in manufacturing, and production practices to ensure your choice is of good quality and is a truly sustainable product.

Floor Finishes

**DuraPalm® mature coconut flooring**
MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.durapalm.com

**Green with Envy modular carpet tile in style ‘Ducks in a Row’**
COLOR: Pond
MATERIALS: nylon fiber yarn, 100% PVC-free recyclable backing system with recycled content
MANUFACTURER: Shaw Industries, Inc.
Gift of the manufacturer
www.shawfloors.com

**Vertical grain bamboo plank flooring**
COLOR: Amber
MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.plyboo.com

**Marmoleum®**
MANUFACTURER: Forbo Flooring
Gift of the manufacturer and Amicus Green Building Center, LLC
www.themarmoleumstore.com
www.amicusgreen.com

**FLOR House pet carpet tile**
COLOR: Frog
MANUFACTURER: Interface, Inc.
www.interfaceinc.com

**EnviroPLANK terrazzo plank flooring**
COLOR: Pewter with Enviroblue size #1 aggregate
MANUFACTURER: EnviroGLAS Products, Inc.
Gift of the manufacturer
www.enviroglasproducts.com

**Recycled aluminum tiles**
MANUFACTURER: Eco-Friendly Flooring, Inc.
Gift of the manufacturer
www.ecofriendlyflooring.com

**Edipo cork flooring**
COLOR: Greige
MANUFACTURER: Duro-design
www.duro-design.com

**Java coir and sisal carpet tiles**
COLOR: Cloud
MANUFACTURER: Tasibel
Gift of sisalcarpet.com
www.sisalcarpet.com
**FLOR Entropy carpet tiles**  
**COLOR:** Change  
**MANUFACTURER:** Interface, Inc.  
www.interfaceinc.com

**ECOpave recycled rubber flooring**  
**COLOR:** Slate  
**MANUFACTURER:** Dodge-Regupol, Inc.  
Gift of the manufacturer  
www.regupol.com

**ECOverings ECO-Gres™ tile**  
**COLOR:** Gardenia  
**MATERIAL:** Porcelain  
**MANUFACTURER:** COVERINGS ETC.  
Gift of the manufacturer and  
Amicus Green Building Center  
www.amicusgreen.com

**Other samples in resource room**

**Benjamin Moore® paint**  
**ECO Spec® low-VOC Latex**  
**COLOR:** #425 Lime Twist  
**FINISH:** Flat  
**MANUFACTURER:** Benjamin Moore & Co.  
Gift of the manufacturer  
www.benjaminmoore.com

**Concrete roof tile**  
**MANUFACTURER:** MonierLifetile  
Gift of the Tile Roof Institute  
www.tileroofing.org

**Fabric and paper swatches with natural fibers, recycled content**  
**MANUFACTURER:** Maharam  
Gift of the manufacturer  
www.maharam.com

**Syndecrete**  
**COLORS:** Custom brown with tempered glass chips; light grey with bourget confetti mix; wine; black with abalone shell  
**MANUFACTURER:** Syndesis, Inc.  
Gift of the manufacturer  
www.syndesisinc.com

**Wall systems**

**Light-gauge metal framing wall system with UltraTouch recycled denim insulation**  
**EXTERIOR AND INTERIOR FINISHES:** Tongue-in-groove cedar siding and gypsum board with Maharam Hikari textile wall covering in Umber  
Gift of Amicus Green Building Center, LLC; Lafarge North America; and Maharam  
www.amicusgreen.com,  
www.lafargenorthamerica.com,  
www.maharam.com

**Thick-walled Larsons Truss finger-jointed wood wall system**  
**EXTERIOR AND INTERIOR FINISHES:** Hardi-board cement and gypsum board with low-VOC interior latex paint  
Gift of the Canfor Corporation; Lafarge North America; and Benjamin Moore & Co.  
www.canfor.com, www.lafargenorthamerica.com,  
www.benjaminmoore.com

**Insulated concrete formwork (ICF) wall system**  
**EXTERIOR AND INTERIOR FINISHES:** Concrete brick and gypsum board with Benjamin Moore low-VOC latex paint  
**MANUFACTURER:** Bartley Corp., L.C. Smith Brick  
Gift of the Portland Cement Association; Concrete brick is a gift of the National Concrete Masonry Association; Paint is a gift of Benjamin Moore & Co.  
www.forms.org, www.bartleycorp.com,  

**Autoclaved Aerated Concrete (AAC) units and coating system**  
**EXTERIOR AND INTERIOR FINISHES:** Stucco and acrylic  
Gift of the International Masonry Institute National Training Center  

**Precast insulated panel with imprinted exterior**  
**MANUFACTURER:** Dukane Precast, Inc.  
Gift of the manufacturer with the Portland Cement Association  
www.dukaneprecast.com, www.cement.org,  
www.huntvalleycontractors.com

**Pilkington Profilit™ transparent thermal wall with Nanogel® Translucent Aerogel insulation**  
**MANUFACTURER:** Technical Glass Products  
Gift of the manufacturer  
www.fireglass.com, www.pilkington.com,  
www.cabot-corp.com
18 ways to go green

1. Conserve energy by purchasing major appliances with an ENERGY STAR rating and by adding timers and automated thermostats to control usage. Also, consider switching to fluorescent light bulbs and adding more natural lighting with additional windows or skylights.

2. Repair leaky fixtures and install low-flow showerheads and faucets.

3. Use water-based paints, finishes, and sealants. Some milk-based paints are also available.

4. Look for wall coverings that are made of paper or natural fiber, rather than synthetic materials, and printed with natural inks.

5. Choose carpeting, rugs, window treatments and other textiles made from natural fibers, such as cotton or wool, which are untreated and free of toxins, such as pesticides or chemical cleaners.

6. Ask for flooring products made from rapidly renewable resources, such as bamboo or linoleum.

7. Select solid woods, when possible, for furniture or cabinetry, rather than pressed woods or composites that may contain formaldehyde or other chemicals that may be toxic.

8. Reuse materials – such as brick, stone, glass, tile, or metal – in new and interesting ways. Old wood also can be safely treated and used for accents.

9. Consider the “lifecycle” of furnishings and accessories before purchasing: Are they made of materials that can be reused or recycled when the item eventually wears out or is no longer needed?
Recycle packing and shipping materials from any newly purchased items, and safely dispose of paint cans and other containers whose contents could potentially contaminate the ground or water supply.

Install lights with sensors that turn on when they detect movement and automatically turn off after a few minutes.

Do not let the water run when brushing your teeth or washing your face.

If every household in the US replaced 1 roll of 1,000 sheet bathroom tissues with 100% recyclable rolls, we could save 373,000 trees, 1.48 million cubic feet of landfill space, and 155 million gallons of water.

Scrape – don’t rinse! When using a dishwasher, pre-rinsing is no longer necessary with today’s technology and detergents. You may be using more water to pre-rinse than the dishwasher uses for a full wash cycle.

Check your refrigerator’s seal by closing the door with a lit flashlight inside. If you see light seeping out, the door should be adjusted or the seal replaced to stop energy leaks.

Buy locally produced products and materials whenever possible to reduce additional energy use and pollution associated with transportation.

Eliminate waste by choosing products that are biodegradable or recyclable.

Look for reclaimed wood products, salvaged from older structures and certified wood harvested from sustainably managed forests.

“18 Ways to Go Green” was produced in collaboration with the American Society of Interior Designers Foundation.
resources

Green design resources
The American Institute of Architects
www.aia.org

The American Society of Interior Designers (ASID)
www.asid.org

The ASID Sustainable Design Information Center
www.asid.org/resource/Sustainable+Design+Information+Center.htm

The American Society of Landscape Architects (ASLA)
www.asla.org

Architects, Designers and Planners for Social Responsibility (ADPSR)
www.adpsr-norcal.org

Biotohinking International
www.biotohinking.com

EcoShack
www.ecoshack.com

Futureproof/eco-design
www.futureproofed.com

GreenBlue
www.greenblue.org

International Sustainable Design Network
www.02.org

IDSA ECODESIGN
www.idsa.org

Sustainable Style Foundation
www.sustainablestyle.org

SlowLab
www.slowlab.net

ThinkCycle Open Collaborative Design
www.thinkcycle.org

Green building resources
World Green Building Council
www.worldgbc.org

U.S. Green Building Council (USGBC)
www.usgbc.org

Build It Green™
www.builditgreen.org

Environmental Building News - BuildingGreen, Inc.
www.buildinggreen.com

Green Roofs for Healthy Cities
www.greenroofs.org

Global Green
www.globalgreen.org

Sustainable Buildings Industry Council (SBIC) (formerly the Passive Solar Industries Council)
www.sbic.org

National Association of Homebuilders
www.nahb.org/gbg

National Association of Homebuilders Research Center
www.nahbrc.org

Portland Cement Association (PCA)
www.concretethinker.org

Energy Use and Efficiency Information
Alliance to Save Energy
www.ase.org and www.ase.org/section/_audience/consumers/homecheckup/

Alliant Energy’s PowerHouse TV
www.powerhousetv.com

The Home Energy Advisor
http://homeenergysaver.lbl.gov

Consumer Energy Information
www.eere.energy.gov/consumerinfo

Clean Energy Choices
www.nrel.gov/docs/fy00osti/27684.pdf

Energy Efficiency Questions and Answers
http://crest.org/efficiency

Database of State Incentives for Renewable Energy (DSIRE)
www.dsireusa.org

Elements of an Energy-Efficient House
www.nrel.gov/docs/fy00osti/27835.pdf

ENERGY STAR
www.energystar.gov

How to Build a Better Home
www.nrel.gov/docs/fy00osti/26582.pdf

The Most Energy-Efficient Appliances
www.aceee.org/consumer-guide/mostenef.htm

Zip Code Program for Insulation
www.oml.gov/~roofs/Zip/ZipHome.html

MySolar and Find Solar
www.mysolar.com and www.findsolar.com

A Consumer’s Guide: Get Your Power from the Sun
www.nrel.gov/docs/fy04osti/35297.pdf

Making the Most of Residential Photovoltaic Systems
www.nrel.gov/docs/fy99osti/26373.pdf

Savings from the Ground Up
www.geoexchange.org

Real Goods
www.realgoods.com

Solar Energy Industries Association
www.seia.org

Energy & Environment Building Association
www.eeba.org

American Council for an Energy Efficient Economy
www.aceee.org

Green resources for kids
EPA Environmental Kids Club
www.epa.gov/kids

Energy Information Administration Kid’s Page
www.eia.doe.gov/kids

Kids site on improving home energy efficiency
www.energysaver.hog.org

EERE Kids – Dr. E’s Energy Lab
www.eere.energy.gov/kids

NRDC – Make Waves!
www.nrdc.org/makewaves

NRDC – The Green Squad
www.nrdc.org/greensquad

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Environmental organizations

Beyond Pesticides
www.beyondpesticides.org

Clean Water Fund
www.cleanwaterfund.org

Earthday Network
www.earthday.net

Global Green
www.globalgreen.org

Natural Resources Defense Council
www.nrdc.org

Sierra Club
www.sierraclub.org

Sierra Club Clean Energy Initiative
www.sierraclub.org/vision/energy.asp

Sierra Club Build Better Communities Initiative
www.sierraclub.org/vision/communities.asp

Union of Concerned Scientists
www.ucsusa.org

U.S. government resources

Partnership for Home Energy Efficiency
www.energysavers.gov

Building America (DOE)
www.buildingamerica.org

ENERGY STAR (EPA and DOE)
www.energystar.gov

U.S. Environmental Protection Agency
www.epa.gov

Green blogs, guides, and online resources

Barking Crickets
www.eco.barkingcrickets.org

Envirolink
www.envirolink.org

Eco-Worrier
http://timesonline.typepad.com/eco_worrier

The Freecycle Network™
www.freecycle.org

GreenHomeGuide
www.greenhomeguide.com

Grist Magazine
www.grist.org

Lazy Environmentalist
www.lazyenvironmentalist.com

Metaefficient
www.metaefficient.com and www.gotoreviews.com

National Geographic online “Is Your Home a Green House” interactive
www.nationalgeographic.com/everyday/greenhouse

Sustainable Style
www.sustainablestyle.org/ssflog

Smart Communities Network
www.smartcommunities.ncat.org

SustainLane
www.sustainlane.com

Treehugger
www.treehugger.com

Publications about green topics


Burnham, Richard. Housing Ourselves: Creating Affordable, Sustainable Shelter


Green magazines and journals

Solar Today
www.solartoday.org

Home Power magazine
www.homepower.com

Smart HomeOwner magazine
www.mondotimes.com

Plenty magazine
www.plentymag.com

Dwell magazine
www.dwellmag.com
contact info
for architects with residences featured in The Green House exhibition and companion publication.

1+2 Architecture
31 Melville Street
Hobart, Tasmania 7000
Australia
www.1plus2architecture.com/

Achenbach Architekten + Designer
Reutlinger Strasse 93
Stuttgart D-70597
Germany
www.achenbach-architekten.com

Arkkitehtti Oy Reiwo Jallinoja
Siltatie 1
00140 Helsinki
Finland

Arkkitehtitoimisto Okulus Oy
Kuortaneenkatu 5
00520 Helsinki
Finland

Arkin Tilt Architects
1101 8th Street, #180
Berkeley, California 94710
wwwarkin_ttl.com

ARRAK Arkkitehdit
Unioninkatu 45 B 42
00170 Helsinki
Finland
www.arrak.com

Cocks Carmichael
200 Gladstone Street
South Melbourne 3205
New South Wales
Australia

David Hertz Architecture/Syndesis
2908 Colorado Avenue
Santa Monica, California 90403
www.syndesisinc.com

driendl architects
Mariahilferstrasse 9
A-1060 Vienna
Austria
www.driendl.at

Frank Harmon Architect
706 Mountford Street
Raleigh, North Carolina 27603
www.frankharmon.com

Kengo Kuma & Associates
2-24-8 Minami Aoyama
Minato-ku
Tokyo 107-0062
Japan
www02.so-net.ne.jp/-kuma

Kirsti Siven & Asko Takala
Korkeavuorenkatu 25 A 5
00130 Helsinki
Finland

Korteknie Stuhlsmacher Architekten
Gravendijkwal 73f
3021 EE Rotterdam
postbus 25012
3001 HA Rotterdam
The Netherlands
www.kortekniestuhlsmacher.nl

Lahz Nimmo Architects
Level 5
116-122 Kippax Street
Sydney, New South Wales 2010
Australia
www.lahnimmo.com

Lake/Flato Architects
311 Third Street, #200
San Antonio, Texas 78205
www.lakeflato.com

Leddy Maytum Stacy Architects
677 Harrison Street
San Francisco, California 94107
www.lmsarch.com

MacKay-Lyons Sweetapple Architects Ltd.
2188 Gottingen Street
Halifax, Nova Scotia B3K 3B4
Canada
www.mlarchitects.ca

Michelle Kaufmann Designs
580 2nd Street, Suite #245
Oakland, California 94607
www.michellekaufmanndesigns.com

Office of Mobile Design
1725 Abbot Kinney Boulevard
Venice, California 90291
www.designmobile.com

Olson Sundberg Kunig Allen Architects
159 South Jackson Street
6th Floor
Seattle, Washington 98104
www.osloonsundberg.com

Pelli Clarke Pelli Architects
322 8th Avenue
18th Floor
New York, New York 10001
www.pcparch.com

Pugh + Scarpa Architecture
2525 Michigan Avenue
Building F1
Santa Monica, California 90404
www.pugh-scarpa.com

Rick Joy Architects
400 South Rubio Avenue
Tucson, Arizona 85701

Schwarz Architektur
Via Calundis 8
CH-7013 Domat/Ems
Switzerland
www.schwarz-architektur.ch

Shigeru Ban Architects
5-2-4 Matsubara, Setagaya-ku
Tokyo 156-0043
Japan
www.shigeruban.com

Steven Holl Architects
450 West 31st Street
11th Floor
New York, New York 10001
www.stevenholl.com

The Miller/Hull Partnership
Poison Building
71 Columbia
6th Floor
Seattle, Washington 98104
www.millerhull.com

Werner Sobek Ingenieure
Albstrasse 14
70597 Stuttgart
Germany
www.wernersobek.com

Will Bruder Architects
111 West Monroe, Suite 444
Phoenix, Arizona 85003
www.willbruder.com

William McDonough + Partners
700 East Jefferson Street
Charlottesville, Virginia 22902
www.mcdonoughpartners.com

The Green House exhibition design
Lewis Tsurumaki Lewis (LTL) Architects
147 Essex Street
New York, New York 10002
www.ltlarchitects.com

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Your home offers a place to begin the slow hard work of turning today’s dangerous environmental situation around. The Green House demonstrates that homes can be both green and stylish. Thanks to some of the latest innovations, high-quality architecture, interior, and product design are compatible with the goals of treading lightly on the Earth and healthier living. Now it’s up to us to put these innovations into action—to use our homes as tools for improving the quality of our lives and maintaining the balance of life on Earth—now and in the years to come.