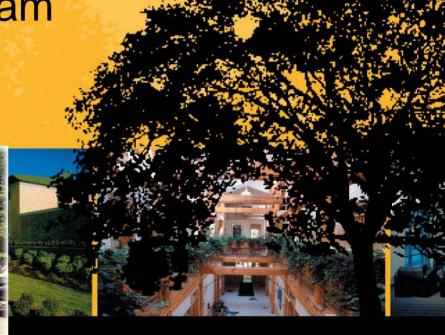


US Green Building Council's LEED-H Program

March 2, 2005







# Home Energy Ratings and Green Buildings

Overview

- 1. USGBC Background, RESNET/USGBC MOU Richard Faesy
- 2. LEED-H Background, Update, Specifications and Verification Procedures

  Jay Hall
- 3. How Home Energy Raters Can Get Involved?

  Kristin Shewfelt

# **Environmental Impact** of Buildings in the US\*

- 65.2% of total U.S. electricity consumption <sup>1</sup>
- > 36% of total U.S. primary energy use <sup>2</sup>
- 30% of total U.S. greenhouse gas emissions<sup>3</sup>
- 136 million tons of construction and demolition waste in the U.S. (approx. 2.8 lbs/person/day) <sup>4</sup>
- 12% of potable water in the U.S. 5
- 40% (3 billion tons annually) of raw materials use globally <sup>6</sup> yet 5% of the world's population
- \* Commercial and residential

## **Green Buildings Benefits**

#### **Environmental benefits**

Reduce the impacts of natural resource consumption

#### **Economic benefits**

Improve the bottom line

### Health and safety benefits

Enhance occupant comfort and health

### Community benefits

 Minimize strain on local infrastructures and improve quality of life

## **Green Buildings More Benefits**

### Competitive first costs

 Integrated design allows high benefit at low cost by achieving synergies between disciplines and between technologies

Reduce operating costs

Lower utility costs significantly

Optimize life-cycle economic performance

Reduce liability

Improve risk management



## What is "Green" Design?

Design and construction practices that significantly reduce or eliminate the negative impact of buildings on the environment and occupants in five broad areas:

- Sustainable site planning
- ✓ Safeguarding water and water efficiency
- Energy efficiency and renewable energy
- ✓ Conservation of materials and resources
- ✓ Indoor environmental quality

# US Green Building Council (USGBC)

#### **Mission**

To promote the design and construction of buildings that are environmentally responsible, profitable, and healthy places to live and work.

### The organization's activities...

- Integrate building industry sectors
- Lead market transformation
- Educate owners and practitioners

### **USGBC** is...

- ✓ A national nonprofit organization
- ✓ A diverse membership of organizations
- √ Consensus-driven
- ✓ Committee-based product development
- ✓ Developer and administrator of the LEED® Green Building Rating System
- ✓ Multi-million \$ budget

# RESNET and USGBC's Memorandum of Understanding

### **Purpose**

- ✓ To define the collaborative relationship between the US Green Building Council (USGBC) and the Residential Energy Services Network (RESNET).
- ✓ To defines the tasks, roles, and schedule, required to effectively deliver green rating services to the USGBC's LEED for Homes initiative.

### Scope

- ✓ Agreements to support:
  - (1) LEED for Homes Program Providers and
  - (2) LEED for Homes "Green Raters"

### **RESNET and USGBC's**

## Memorandum of Understanding

#### **RESNET's Agreements**

- Actively promote the advanced training of HERS Providers and Raters to enable them to qualify to become LEED for Homes Program Providers and LEED Homes Raters.
- 2. Actively promote the accreditation of LEED for Homes Program Providers and LEED for Homes Raters.
- 3. Maintain data on LEED for Homes-related trainings and accreditations completed by HERS Raters, and to share that data with USGBC.
- 4. Work collaboratively with USGBC to continually improve and update the LEED for Homes training.
- 5. Work collaboratively with USGBC to continuously refine or improve the LEED for Homes initiative.
- 6. Use the Partnership and the LEED for Homes brand to promote sustainable home design and construction.
- 7. Promote adherence to the LEED for Homes Guidelines

### **RESNET and USGBC's**

## Memorandum of Understanding

### **USGBC's Agreements**

- 1. Provide current LEED for Homes policies, requirements, and training curriculum.
- 2. Work collaboratively to continually refine and improve LEED for Homes policies, accreditation requirements, and accreditation processes.
- Work collaboratively to continually refine and improve LEED for Homes trainings (including both curriculum development and delivery mechanisms).
- 4. Work collaboratively to continuously refine or improve the LEED for Homes initiative.
- 5. Increase awareness of the LEED for Homes brand.
- 6. Provide RESNET with current LEED for Homes news, information, and reference documents.
- 7. Provide RESNET with public recognition.

### **RESNET and USGBC's**

## Memorandum of Understanding

#### **Next Steps**

**Revenue:** Sharing of revenues between the MOU Partners.

*Information*: Sharing of information.

**Scheduling and Resources**: Availability and commitment of resources need to meet proposed schedules.

Market-Based Approach: Encourage market competition among LEED-Home Raters in each market and include green home rating models currently in place

**Quality Assurance**: Agreement on quality assurance policies and procedures, and ultimate responsibility for enforcement of them.

## What's Next?

- Jay Hall:
  - LEED-Homes Update

- Kristin Shewfelt:
  - Opportunities for Raters

• Q&A