

# The Tide is Turning Adopt an Energy Efficiency Strategy

Jean Lupinacci EPA's ENERGY STAR Commercial and Industrial May 22, 2008

## Trend: Growing Energy & Environmental Concerns



- Gallup polls show Americans' concerns about environmental issues have increased more than 10 percentage points between 2004 and 2006
- 88% of US adults responded that "energy efficient" was very important in their electronics, appliance, lighting, and heating/cooling equipment purchases\*
- Annual Pew Surveys report:
  - 58% of Americans rank "dealing with the nation's energy problem" as a top priority in 2006, up from 40% in 2003
- ABC News/Washington Post Poll:
  - 79% of Americans think global warming poses a serious threat to future generations

<sup>\*</sup> The Natural Marketing Institute, February 2004, *Understanding the 2004 LOHAS Consumer Report ™: A Focus on Durable Goods* 

#### Cities Take the Lead



- U.S. Mayors Climate Protection Agreement "We will strive to meet or exceed Kyoto Protocol targets for reducing global warming pollution by taking actions in our own operations and communities . . ."
- US Conference of Mayors- ENERGY STAR Resolution:
  - Unanimous resolution passed summer '07
  - Mayors support ENERGY STAR Challenge
  - Deliver energy efficiency in cities
- Louisville example pilot city
  - Improve own buildings
  - Reach out to business community
  - Mayor Abramson hosts all metro real estate associations at energy efficiency meeting
- Washington DC:
  - Policy/legislation
  - Business community

#### Associations Take the Lead



#### BOMA's 7 Point Challenge:

- Decrease energy consumption by 30 percent across portfolios by 2012;
- Benchmark energy performance and water usage through EPA's ENERGY STAR® benchmarking tool;
- 3. Provide education to ensure that equipment is properly maintained and utilized;
- 4. Perform an energy audit and implement low-risk, low-cost strategies
- 5. Improve operations and maintenance and ensure equipment operates as designed;
- 6. Impact community and planet by reduce industry's role in global warming; and
- Position yourself and the industry as leaders and solution providers

### **BOMA Seattle/King County** Kilowatt Crackdown



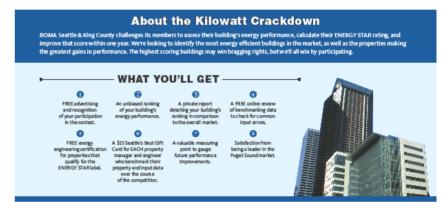
- Partnership of BOMA, utilities, and nonprofit organizations.
- Participants benchmark buildings in Portfolio Manager in Jan 2008 using 2007 utility data.
- Winners in multiple categories for top performance, best improvement, etc.
- Free PE certification for the **ENERGY STAR label.**
- Prizes include cash, private suite parties at Seattle Mariners games, tickets to the BOMA golf tournament, and more.



Who can take energy management to the next level?

#### TAKE THE CHALLENGE AND FIND OUT

- Is your building beating the Seattle average? - Can you qualify for the marketing benefits of the ENERGY STAR® label? - Can a historic property can be more efficient than a LEED certified development?















#### States Take the Lead



## California – Breaking New Ground with ENERGY STAR

- ➤ All state buildings to be benchmarked using EPA energy performance rating and Portfolio Manager by end of 2007.
- California AB 1103 became law in 2007.
  - By January 1, 2009, upon the request of any commercial building owner, requires all utilities to make available data for uploading into Portfolio Manager.
  - By January 1, 2010, requires the <u>disclosure</u> of an ENERGY STAR rating and energy use data as part of commercial real estate transactions involving the <u>sale</u>, <u>lease</u>, <u>or financing of a whole building</u>.

## Commercial Property Companies take the Lead



#### Property owners and managers

- Hines
- RML Property Management (Louisville-based)
- Fenley Real Estate Group (Louisville-based)
- CB Richard Ellis
- Jones Lang LaSalle
- USAA Realty
- Transwestern
- Cushman & Wakefield

#### Major corporations

- Humana (Louisville-based)
- Papa John's (Louisville-based)
- GE
- Marriott
- JC Penney
- Food Lion
- McDonald's

### **ENERGY STAR**



















### Also ENERGY STAR





AEGON Center Louisville, KY



Shriner's Hospital for Children Houston, TX



500 Boylston St. Boston, MA



Westin San Francisco Airport Millbrae, CA



Twin Peaks Charter Academy Longmont, CO



Blue Earth County Courthouse Mankato, MN

### Take the ENERGY STAR Challenge



## National Campaign to reduce energy waste in buildings:

- Co-brandable posters and print advertisements
- Brochures
- Fact sheets
- Key messages
- Web banners
- Templates for press releases



Learn more at energystar.gov/challenge

## Adopt Organization-Wide Management Approach



- •Guidance based on the successful practices of ENERGY STAR partners
- •EPA identified key components from successful energy management programs.
- •EPA provides tools at each step along the way



### How Does Your Building Perform?



#### **Vehicles**



#### **Buildings**

## EPA Energy Performance Rating: kBtu/sf/yr



### Building Rating - Objective



- Create a simple metric that is easy to understand
- Monitor actual billed energy data
- Create a whole building indicator
  - Capture the interactions of building systems not individual equipment efficiency
  - Track energy use accounting for weather and operational changes over time
- Give a peer group comparison
  - Compare a building's energy performance to its national peer group
- Offer recognition for top performers

# ENERGY STAR Buildings – Beyond Benchmarking



- > Technical Guidance
  - Energy Management Guidelines
  - Creating an Energy Management Team
  - Building Upgrade Manual
  - Calculator Tools
- On-Line Training
  - ENERGY STAR Challenge: Getting Started
  - Designing Top Energy Performing Buildings
  - Portfolio Manager Training
  - Best Practices
- Campaigns to Involve Employees, Customers, and Others
  - Change a Light
  - ENERGY STAR Challenge

### Tap into Experts



- ENERGY STAR helps you find expertise you need:
  - Service and Product Providers
  - Energy efficiency programs and incentives:
    - Utilities, states, non-profit organizations
  - Others in your sector
  - Others in your community

#### Join the Wave of Movement



