



ENERGY STAR 2007

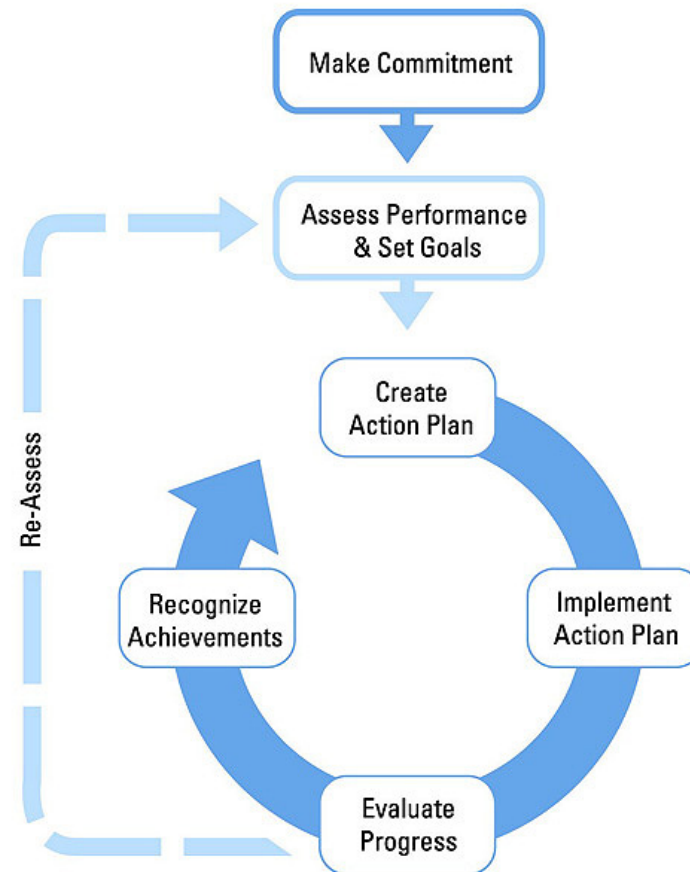
Program Update & Discussion

Web Conference
January 17, 2007

About The Web Conferences



- **Monthly**
- **Topics are structured on a strategic approach to energy management**
- **Help you continually improve energy performance**
- **Opportunity to share ideas with others**
- **Slides are a starting point for discussion**
- **Open & interactive**



Web Conference Tips



- Mute phone when listening! Improves sound quality for everyone.
Use * 6 – to mute and # 6 to un-mute
- Hold & Music – If your phone system has music-on-hold, please don't put the web conference on hold!
- Presentation slides will be sent by email to all participants following the web conference.

Today's Web Conference



- Welcome
- Jean Lupinacci – Overview of Achievements & Commercial Sector Updates
- Walt Tunnessen – Industrial Sector
- Questions & Discussion
- Announcements

Introduction



- **Global Energy Concerns**

- Electricity blackouts
- Natural gas shortages/costs
- Greenhouse gas emissions and global warming
- Oil imports/prices
- Environmental stewardship
- Cost savings for clients

ENERGY STAR Success to Date



- ✓ Started in 1992; now the government backed symbol for energy efficiency
- ✓ In 2005, Americans, with help of ENERGY STAR:
 - saved \$12 billion on energy bills
 - prevented ghg emissions equal to 23 million cars
- ✓ ENERGY STAR recognized by over 60% of Americans
 - More than 2 **billion** ENERGY STAR products have been sold to date.
 - More than 2,500 builders have constructed over **500,000** ENERGY STAR homes.

Commercial and Industrial Market



What you have accomplished in 2006:

- ✓ Integration of benchmarking, tracking and goal setting into energy management programs.
- ✓ Award of ENERGY STAR Label to manufacturing plants.
- ✓ Campaigns focused on improving energy use across portfolio's by 10% or more.
- ✓ Over 40 organizations demonstrating 10% or more savings or top performing portfolios.
- ✓ Stronger role of energy efficiency within green building context.
- ✓ Integration of energy performance goals into new construction.
- ✓ Education of employees, customers and others of ways to protect the environment at work and at home.



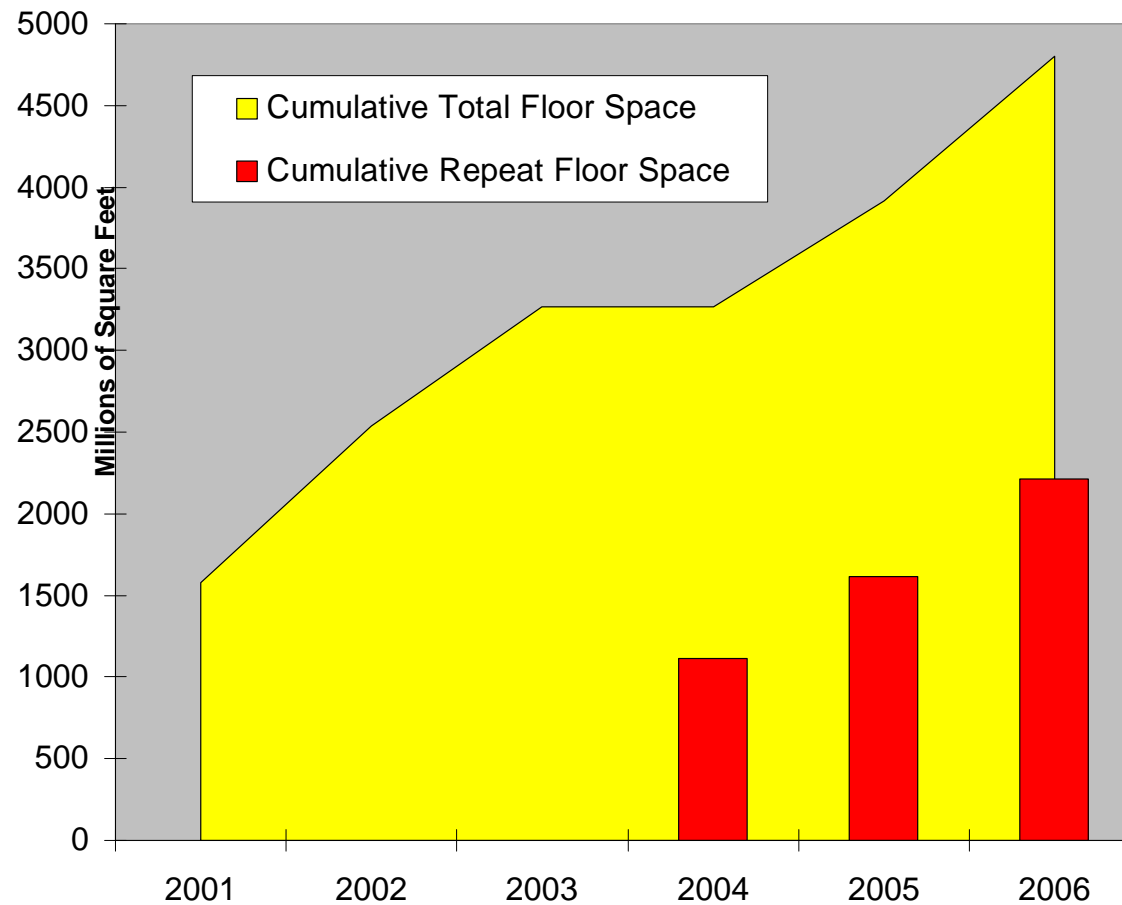
Commercial & Institutional Sectors News

Strong Growth: Manage Energy Using Portfolio Manager



Trends:

- Almost **5 billion** cumulative square feet rated through 2006; **30,000 buildings**
- This reflects a **27 percent increase** in cumulative square footage between the end of 2005 and this year to date

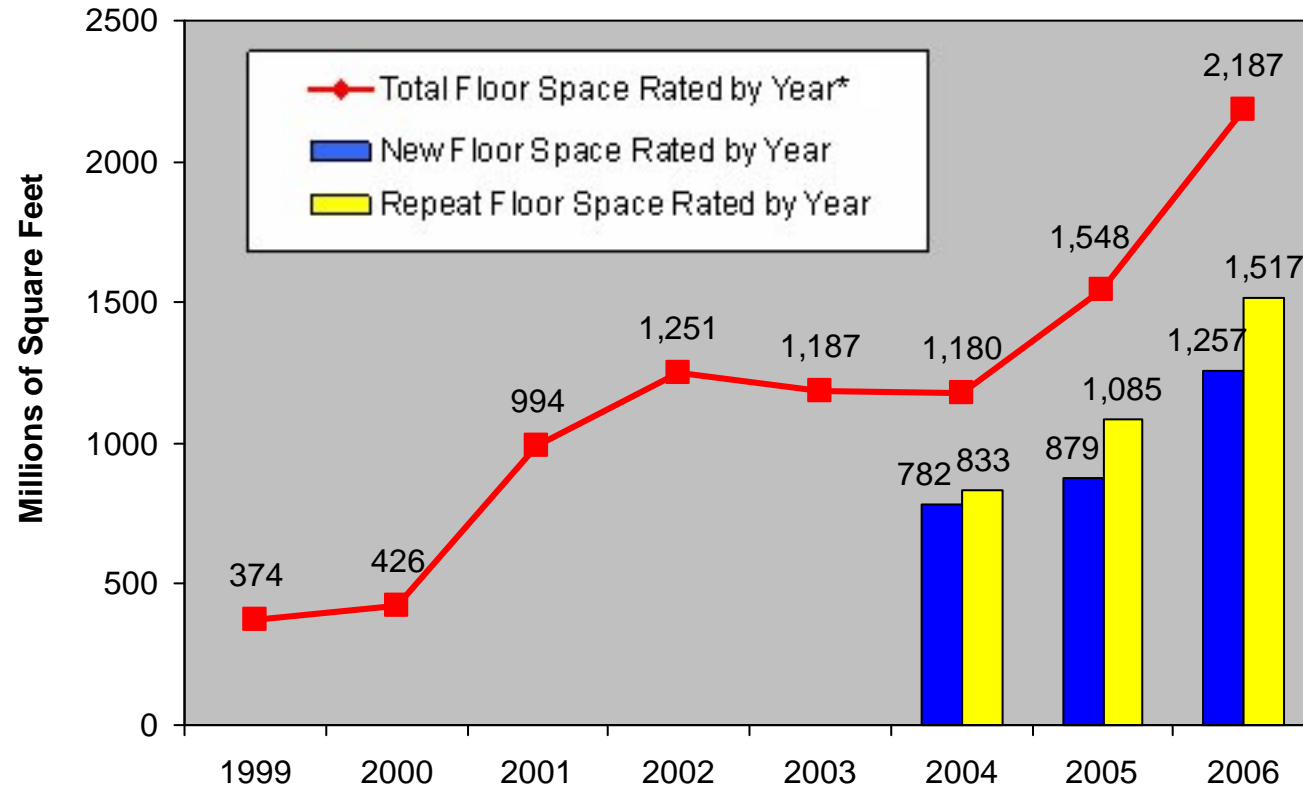


New and Repeat Benchmarking Increase By 50 Percent



Trends:

- In 2006, ~2.2 billion square feet rated; 1.5 billion represents rebenchmarked buildings
- Good indicator of continued management practices



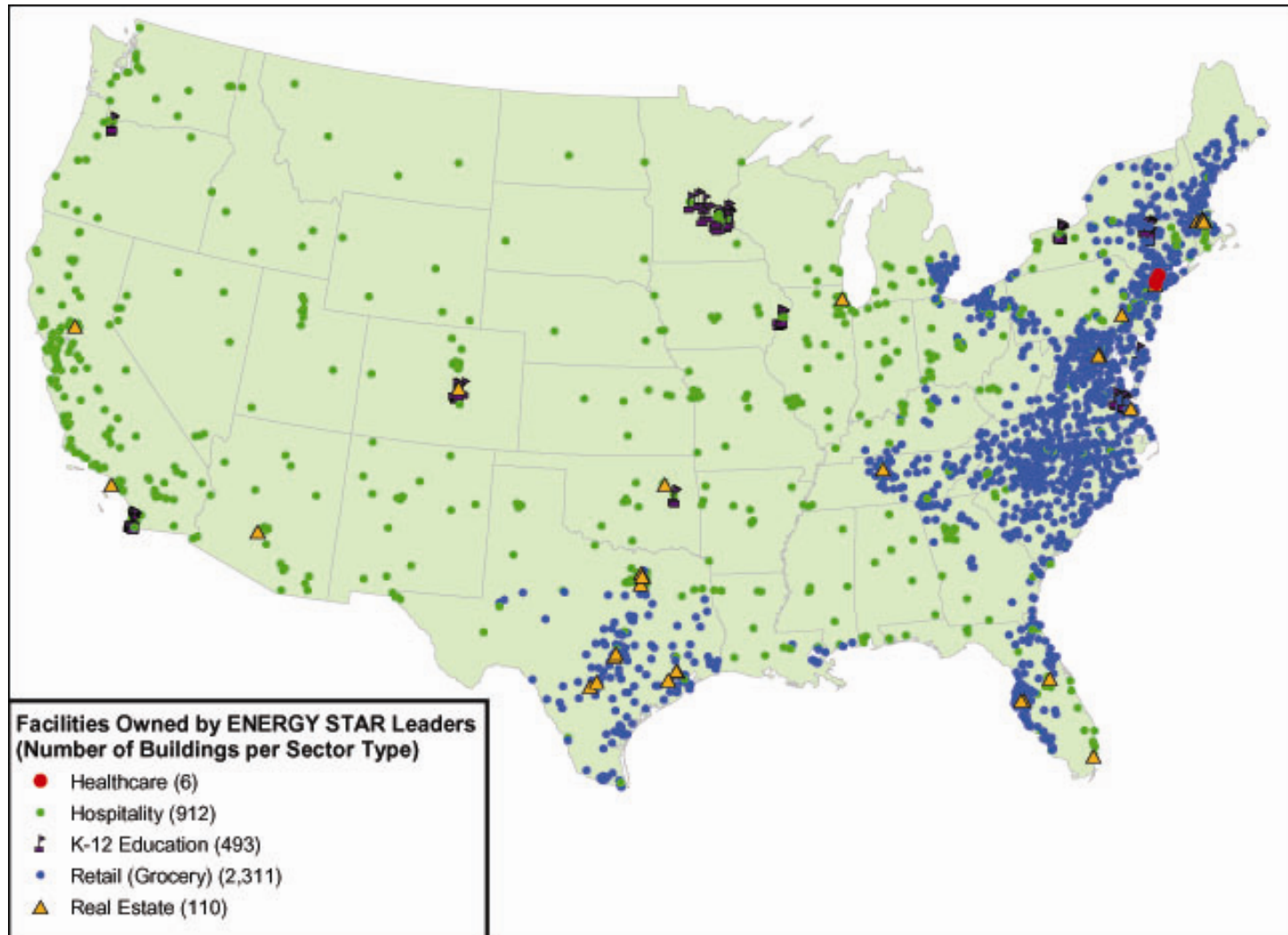
* Total is not the sum of new and repeat floorspace. It reflects unique benchmarked floorspace.

C&I Meets Goal of 40 ENERGY STAR Leaders in 2006



- 22 partners have become ENERGY STAR Leaders in 2006 through November, the most recognized in a single year
- K-12 schools represented more than 70 percent of the new 2006 Leaders
- 41 organizations qualified as ENERGY STAR Leaders; representing more than 3,800 facilities and 215 million square feet
- ENERGY STAR Leaders saved over 800 million pounds of CO₂ annually, equivalent to removing almost 65,000 light trucks/cars

ENERGY STAR Leader Activity*



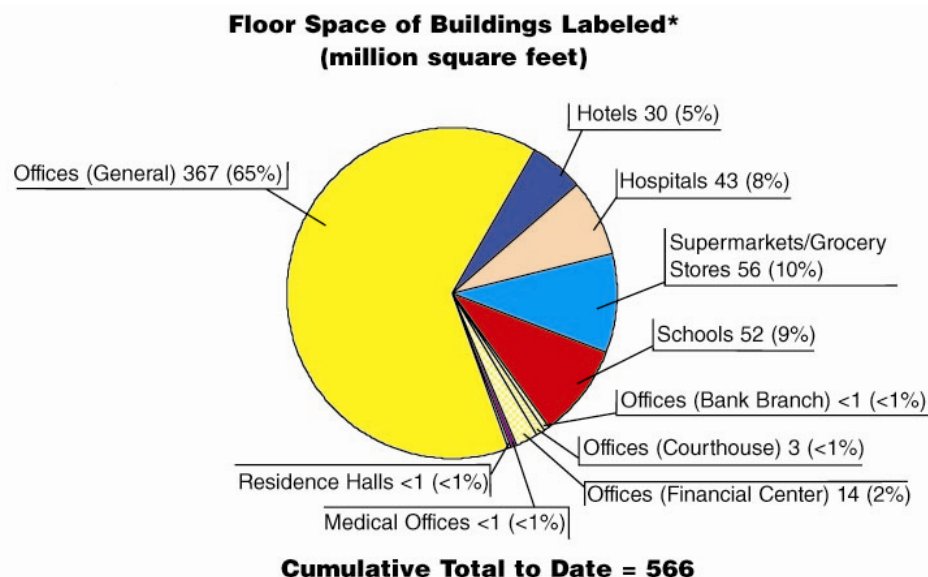
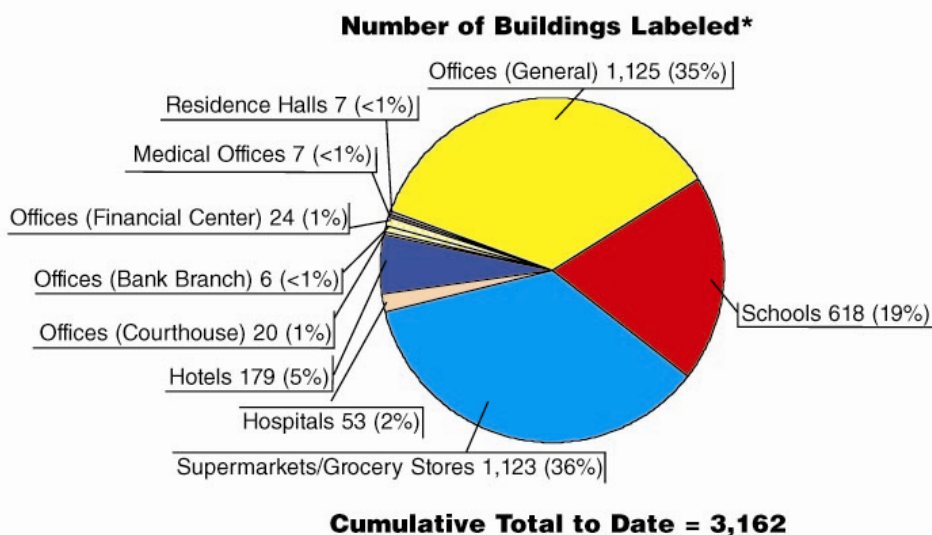
* Represents eligible buildings in ENERGY STAR Leader accounts as of 11/30/06. The map may not look true to scale due to multiple entries per zip code.

Who is Earning the ENERGY STAR?



Trends:

- Half billion square ft. of floor space qualified for the ENERGY STAR through 2006 to date; over 3,200 buildings labeled
- More offices and supermarkets have labeled than any other space type; ~600 Food Lion stores have qualified for the ENERGY STAR
- About 30% have earned the label in multiple years

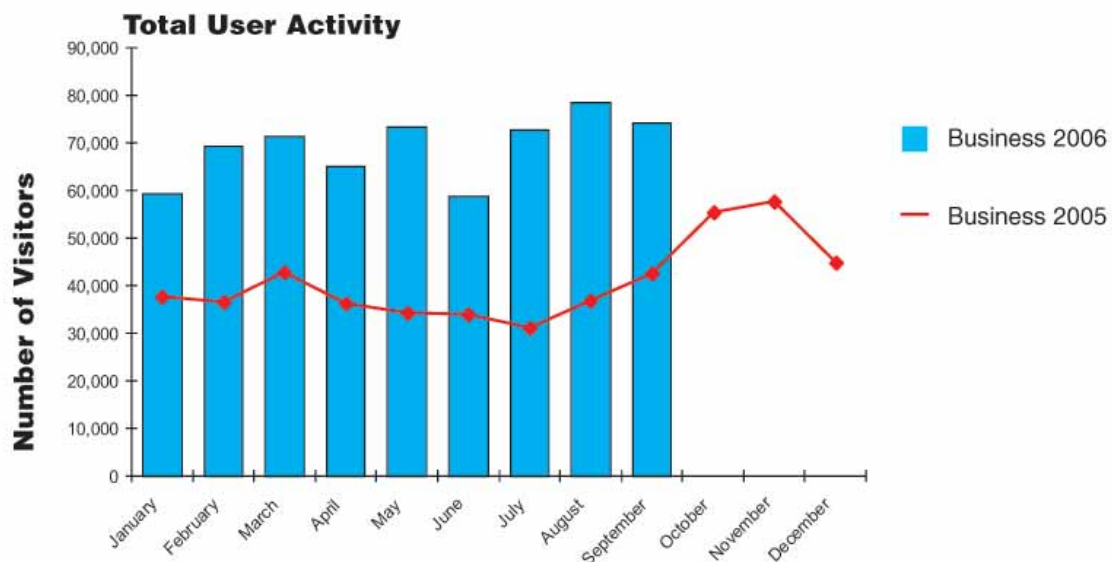


* Through November 30, 2006; not all new space types have qualified for a label.

Web Activity Jumps Significantly in 2006



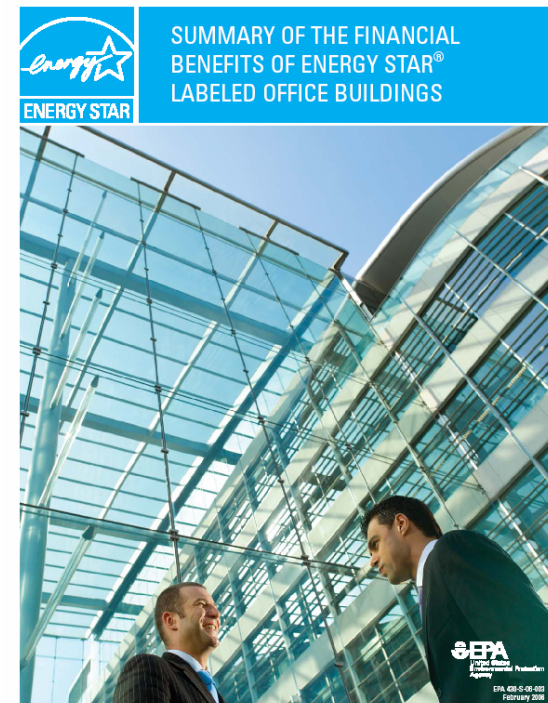
- Almost 625,000 visitors through the third quarter 2006, an almost 90 percent increase over this time last year
- Web redesign implemented in Oct.
- All-time high usage in Oct. with nearly 92,000 visitors, an increase of 24% over Sept. Represented 43% of increase in overall ENERGY STAR web traffic.



Financial Benefits of ENERGY STAR



- ENERGY STAR qualified offices demonstrate:
 - 35% less energy use
 - \$0.50 per square foot less to operate
 - Energy performance persists over multiple years.
- Other benefits/trends:
 - Higher occupancy
 - Increased asset value
 - Lower carbon emissions
 - Savings in operations/maintenance
- +3,000 ENERGY STAR buildings
 - +500 million square feet



Campaigns Make Big Impact



Support for the ENERGY STAR Challenge:

- Building Owners and Managers Association (BOMA International):
 - Launch BEEP to educate members on environmental leadership opportunity to reduce energy use and costs.
 - 6 seminar topics
 - Wide reach: 5,000 industry practitioners participate
 - Hold ENERGY STAR/Green Pavilion at annual conference.
- American Society of Healthcare Engineers:
 - Launch E2C campaign to train facility managers on energy efficiency opportunities
- NACO ENERGY STAR Courthouse Campaign:
 - Targets county governments to reduce energy use

Partner Outreach Makes a Difference



**ENERGY STAR
CHANGE A LIGHT, CHANGE THE WORLD**

374,000 consumers pledged to change one light bulb to an ENERGY STAR qualified bulb

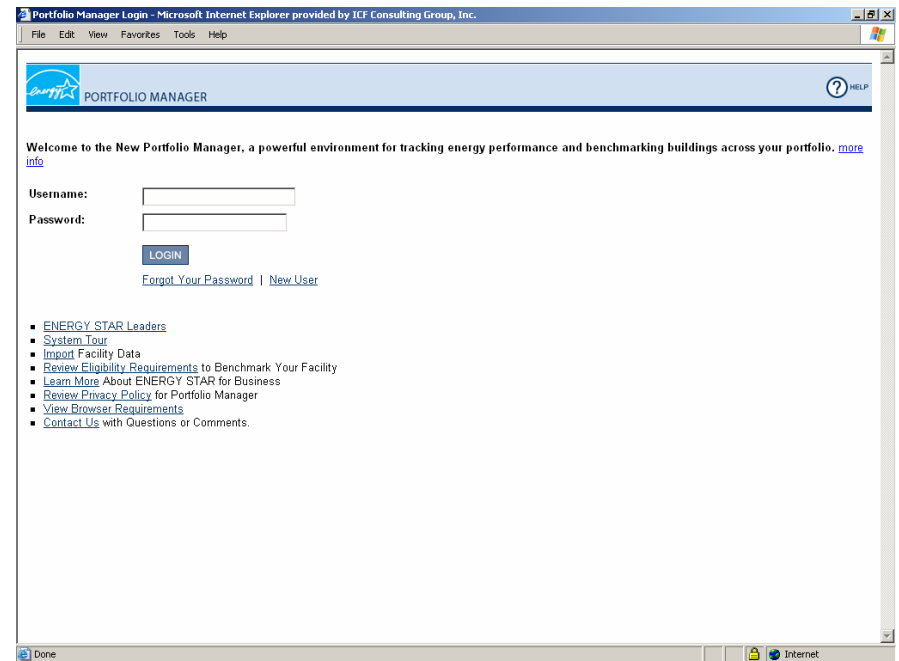
C&I organizations can drive pledges:

Mittal Steel, PepsiCo, NACO, Davenport, IA Public School District, Food Lion, 3M, Transwestern, Hannaford Bros, NY Presbyterian Hospital, others

Portfolio Manager



- Recent Enhancements:
 - Water Tracking
 - 350 accounts, representing 600 buildings
 - On average, 2 meters per building
 - Percent Change in Energy Metric
 - Based on normalized source energy
 - Foundation for Leaders expansion
 - Improved energy tracking for ALL buildings
 - Substantial interest from organizations with non-ratable spaces, e.g., NADA, local governments



Upcoming in 2007: Portfolio Manager



Existing energy performance ratings updated:

- To stay as current as possible
 - Latest building energy survey data from DOE
 - Building uses and operation change over time
- To ensure continued credibility
 - Greater transparency
 - Potentially more robust approaches
 - Simplify and improve approach weather normalization to address outliers
- Respond to valid comments from users and other stakeholders
- Form Stakeholder groups to help with modifications

Portfolio Manager Schedule



- Early 2007
 - Revise office rating
 - Add New retail rating
 - ENERGY STAR Leaders criteria change from points to percent
 - Expand ENERGY STAR Leaders to local government spaces in first Phase
- Later 2007
 - Revise school, supermarket, hotel, medical office ratings
 - Expand ENERGY STAR Leaders to other organizations
- Beyond 2007
 - Evaluate data to determine new ratings
 - Water efficiency rating (several years away)

Upcoming: ENERGY STAR Leaders



- Criteria change from 10 point increase to 10% reduction
 - Change effective February 1, 2007
 - All existing Leaders grandfathered
- No limit on 10% increments
- Date stamp recognition
- Option to re-apply for top performing portfolio (75 average)
- Help promote ENERGY STAR Leaders to local press
- Expand recognition all organizations that show 10% or more improvement

Major Campaigns Planned In 2007



ENERGY STAR Challenge campaigns expanded with major stakeholders:

- ★ BOMA and ASHE continue
- ★ Local and State governments
- ★ National Automobile Dealers Association
- ★ American Bar Association

Technical Guidance



- ✓ Continue to update Building Upgrade Manual
 - Revised with up to date technical and management guidance and post as completed:
 - Lighting guidance
 - School guidance

- ✓ Retro commissioning guidance
 - In conjunction with Portland Energy Conservation Inc (PECI), New York State Energy Research and Development Authority (NYSERDA) and others.

- ✓ Benchmarking guidance

- ✓ Spring and Fall technical guidance to save energy

Networking and Training



- **Training Program:**
 - Rework to add new content on regular basis
 - Record and archive training to make more accessible
- **Networking Program:**
 - Continue monthly web conferences using partners to help choose topics
 - Offer local, in-person meetings to bring energy users together with solutions.
 - 1/23/07 in Boston; others to be scheduled

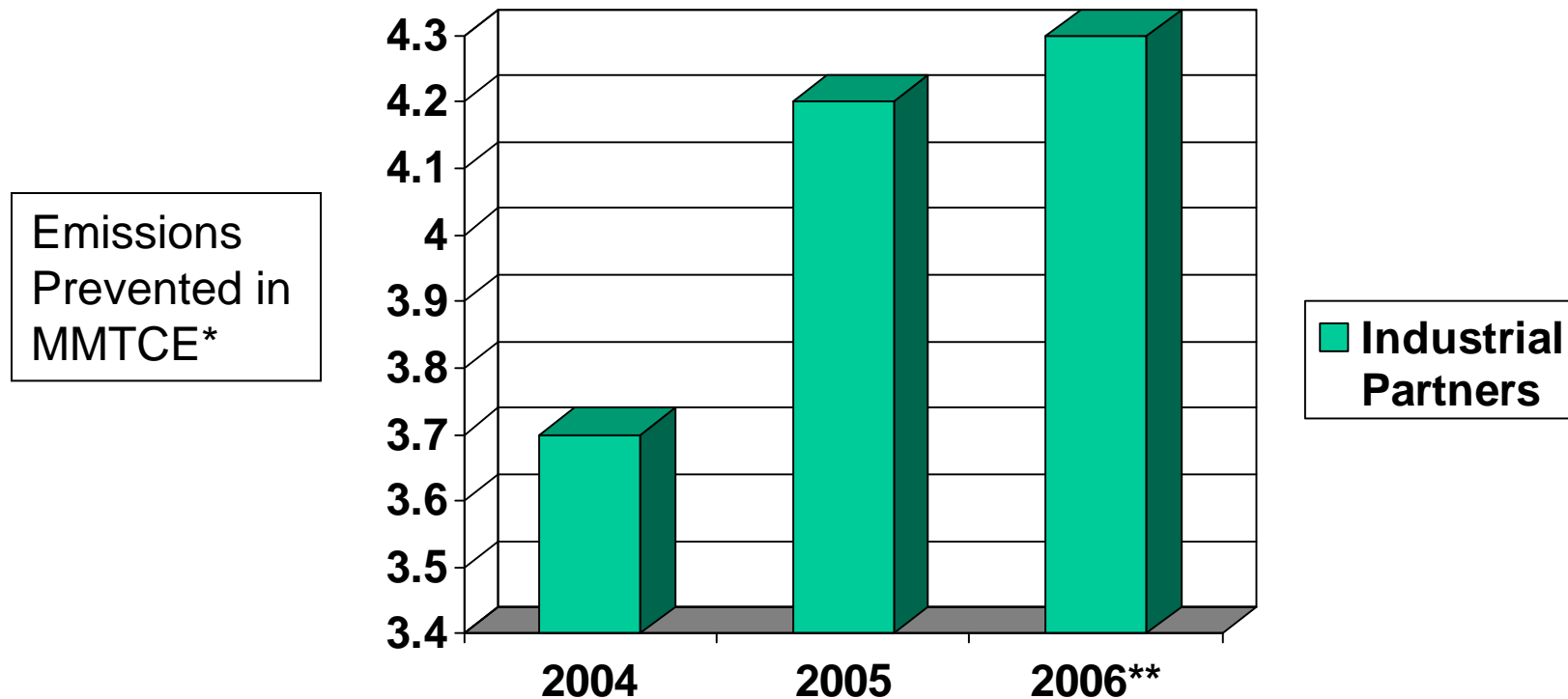


Industrial Sector News

Industrial partner achievements



Industrial partners continue to reduce GHG through greater energy efficiency.



**million metric tons of carbon equivalents*

***based on preliminary data*

Industrial Focuses



- ✓ New Industrial Focused launched in '06
- ✓ Existing focused continue to make progress
- ✓ Two new Focuses expected to be launched in '07

Focuses provide:

- An energy forum within an industry
- Plant energy performance indicators (EPI)
- Energy guides
- Consideration of barriers to energy efficiency and a plan of address

Focus Industries



Industry	EPI	Energy Guide	Annual Meeting
Vehicle Assembly	Yes	Yes	Yes – 5 th
Corn Refining	Yes	Yes	Yes – 5 th
Cement	Yes	Yes	Yes – 3 rd
Pharmaceutical	Draft	Yes	Yes – 3 rd
Petroleum	Solomon	Yes	Yes – 2 nd
Glass	2 in draft; under review	Draft	Yes – 1 st
Food Processing	2 in draft; under review	Draft, final May 2007	Yes – 1 st
Petrochemicals	Investigating	Underway	2007
Pulp & Paper	Investigating	Under study	2007

1st Class of Plant Labels



- ✓ First class of industrial plants awarded the ENERGY STAR in August
- ✓ Currently 22 plants from Motor Vehicle Assembly, Cement, and Corn Refining sectors
- ✓ Eligibility
 - 75 or better rating based on EPI
 - Certified Statement of Energy performance
 - Decent environmental record



New for 2007



Plant labeling to be extended to industries with newly completed EPIs

- New EPI anticipated for fruit and vegetable canning and freezing plants
- Potential new EPI for pharmaceutical manufacturing plants
- Glass? Depends on progress made with industry
- Banner/flag, bronze plaque and certificate awarded



**Meets U.S. EPA
Guidelines for
Superior
Energy Efficiency**

2007

Networking & Conferencing



ENERGY STAR at AEE's World Energy Engineering Congress

- ✓ Atlanta, GA, August 13 - 17, 2007
- ✓ The focus industries will meet early in the week for their annual meetings:
 - Cement, motor vehicles, glass, pharmaceuticals, food, petroleum refining
- ✓ Energy manager networking luncheon open to all focus industries and industrial partners on the 14th
- ✓ WEEC technical sessions begin on August 15th
 - ENERGY STAR will organize 5 industrial sessions for the conference, presentations by industrial participants
 - Reduced attendance rate of \$395 at www.energycongress.com/ENERGYSTAR
- ✓ This will be a great opportunity for networking among a variety of industries

New Resources For 2007



- Facility Energy Program Assessment Matrix now available
- Guidance on how to benchmark energy in facilities – on the web soon
- Expanded “In Practice” stories within the Guidelines and in a database format
- Next generation energy management practices report
 - Energy scenarios - developed by considering 4 “looks to the future” of how the US energy environment might unfold through 2020
 - Senior executives from a variety of US corporations will consider the role that senior executives play in influencing energy use in business and the new practices they must employ
 - Final report will be available Summer 2007

Heads up



- DOE's Industrial Technologies Program invited EPA to work with them as a system is designed for certifying industrial facilities for energy efficiency
 - Early in process, preliminary ideas:
 - National energy management standard to be developed
 - 3rd party will have to certify that a plant meets the standard
 - Highest level could require for energy performance rating based on an ENERGY STAR EPI for the plant type
 - Tiered approach - levels of achievement & recognition
 - Anticipate testing the program in Texas initially
 - Target timing: completion next year

Change A Light



- Many industrial partners leveraged the campaign to raise employee awareness while promoting their energy program.
- We are interested in your suggestions and feedback on this initiative.

A screenshot of the ENERGY STAR Change A Light website. The page is titled "Mittal Steel USA" and shows a progress bar for the 2006 goal of 5,000 pledges. The current total is 3,686 pledges, with 4,178 bulbs. The page includes a "Congratulations!" section and a description of Mittal Steel USA. The website has a blue header with the ENERGY STAR logo and navigation links. A search bar is visible in the top right corner. The page is viewed in a browser window, with the address bar showing "http://www.energystar.gov/index.cfm?fuseaction=cal.showpledgedriverdetails&cpd_".

ENERGY STAR

ENERGY STAR
CHANGE A LIGHT, CHANGE THE WORLD

PRODUCTS HOME IMPROVEMENT NEW HOMES BUILDINGS & PLANTS PARTNER RESOURCES

Home > Products > Lighting > Change a Light

Mittal Steel USA

74%

2006 GOAL: 5,000 PLEDGES
CURRENT TOTAL: 3,686 PLEDGES, 4,178 BULBS

Congratulations!

Pledges taken by your group so far have the potential to save 1,178,196 kWh of energy, \$117,820 in energy costs, and prevent 1,859,210 pounds of greenhouse gas emissions.

By inspiring 5,000 people to take the ENERGY STAR Change a Light Pledge, your group will save at least 1,410,000 kWh of energy, \$141,000 in energy costs, and prevent 2,230,000 pounds of greenhouse gas emissions.

MITTAL

Mittal Steel USA is the largest steel producer in the United States. Mittal Steel USA is a major supplier to the North American automotive industry as well as to the broader transportation sector, serving customers in the trucking, off-highway, agricultural-equipment, and railway industries. Mittal Steel USA also has a strong customer base in the appliance, office furniture, electrical motors, packaging, industrial machinery, and other manufacturing sectors, as well as the distribution and service-center industry.

Take the ENERGY STAR Change A Light Pledge on behalf of Mittal Steel USA and help protect the environment for future generations!

Learn more about Change a Light

(1 item remaining) Waiting for http://www.energystar.gov/index.cfm?fuseaction=cal.showpledgedriverdetails&cpd_

2007 Web Conferences



Month	Topic
January	ES Update
February	Performance Contracting
March	Energy Management Diagnosis
April	Partner of the Year
May	Assessing Facility Energy Mgmt Practice
June	Our Top 3 Energy Projects
July	Enterprise-wide Compress Air Mgmt
August	Energy Auditing
September	Retro-commissioning
October	Energy & Climate Risk Management

[Past Presentations – See “Networking Opportunities”](#)

http://www.energystar.gov/index.cfm?c=networking.bus_networking



Questions, Comments, & General Discussion



Thank you for participating!