



Improving Energy Performance in Healthcare Facilities

Portfolio Manager

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Green Michigan Healthcare Conference

Audrie Hicks-Washington, U.S. EPA Region 5
ENERGY STAR®

One of our goals in Energy Star program is to help hospitals attain higher energy performance of their facilities. I'm happy to be here to speak about how EPA's energy performance rating system, Portfolio Manager can help.

How many people have ever heard of ES? Worked with ES in any way before?
Has anyone ever used the Portfolio Manager tool before?

Building engineers? Facility managers?

Portfolio Manager is . . .

- most widely used EPRS in the US and its recognized abroad as well.
- free and easy to use. Web-based tool.
- the industry standard.

Today . . .



- Why Energy Management?
- Energy Star Overview
- Portfolio Manager Tool
- Recognition Opportunities

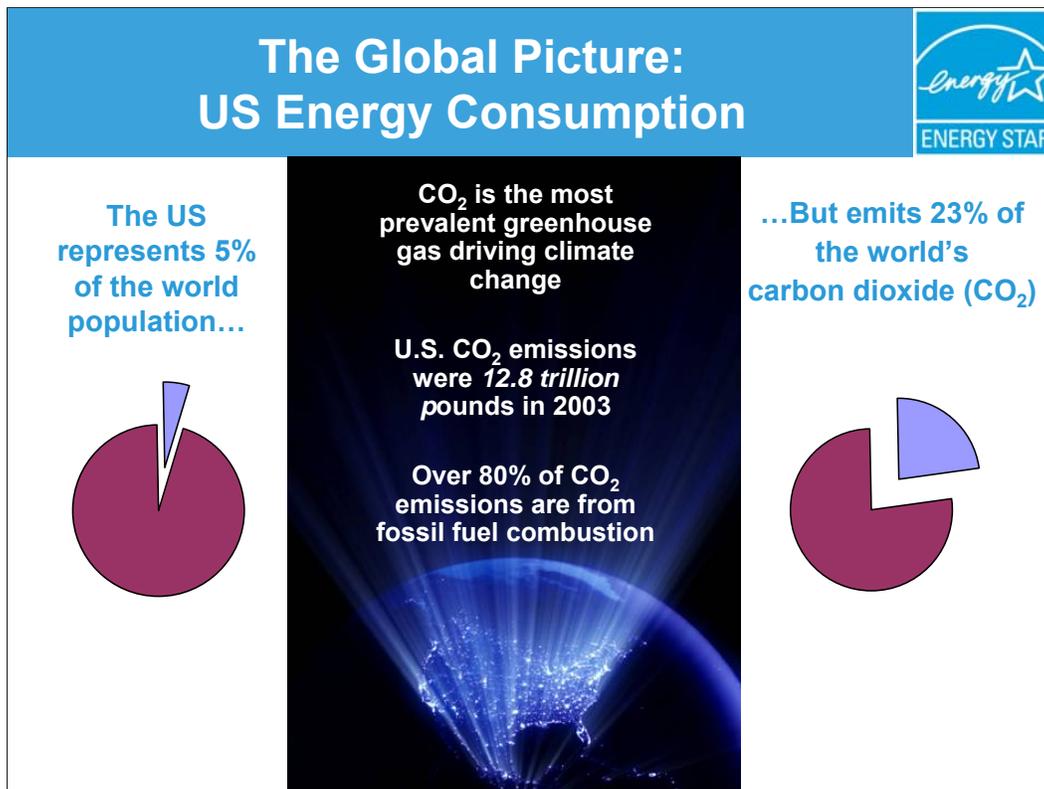
Today, I want to set the stage and talk about why managing energy is important in relation to the healthcare sector, brief overview of ES, and then benchmarking your buildings using Portfolio Manager --what it is, how it works. I'll conclude with recognition opportunities by EPA.

If you remember just one thing as you leave here today, remember this . . . If you really want to improve the energy performance of your building, benchmarking is the most important first step, because . . .

- 1) It's difficult to manage what you don't measure.
- 2) It's hard to know where you going if you don't have a basis to start from; and
- 3) Benchmarking allows you to see how much energy you're currently using so you can make good decisions about where to make improvements.



Why Energy Management?

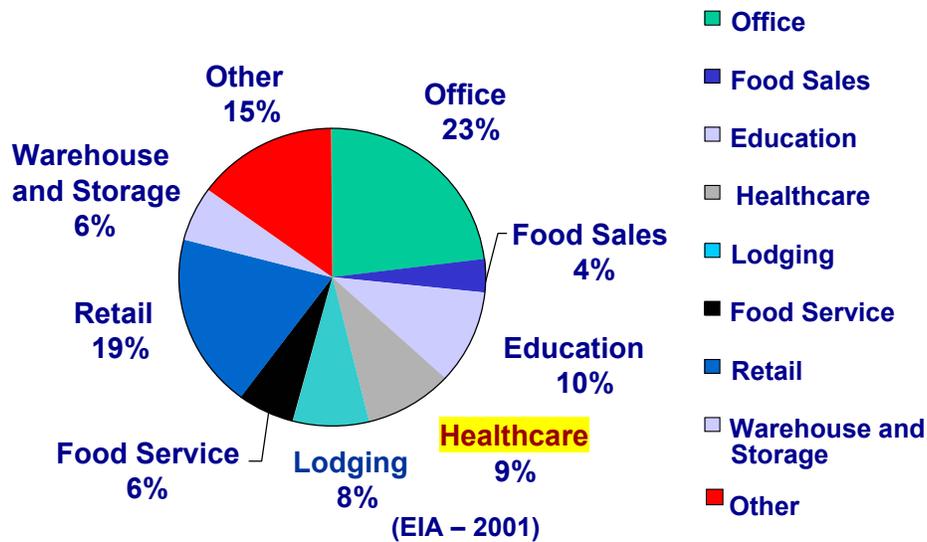


Energy use is the number one source of air pollution in the U.S.

This slide is explaining that there is a direct correlation between the significant amount of energy we use unnecessarily and the negative effect it is having on our environment nationwide.

Although the US accounts for 5% of the world's population, it emits nearly one-quarter of the world's carbon dioxide emissions. CO₂ is the main greenhouse gas emission responsible for climate change.

Commercial Buildings Generate 18% of Total GHG Emissions



So another 'big picture' reason that you, as a hospital, should care about energy management is that your actions can essentially have a large impact on the future health of the environment.

- This pie chart is about U.S. ghg emissions and energy that is consumed by the different building types in the commercial sector.
- You will note that commercial buildings account for roughly 18% of ghg emissions.
- And the Healthcare industry represents 9% of total energy consumption.

Source: DOE EIA data from 2003

<http://www.eia.doe.gov/oiaf/1605/ggrpt/pdf/chapter1.pdf>

Why Manage Your Energy?



\$ **Non-Profit healthcare organization**

\$1 saved in energy performance =
\$20 in new revenue for hospitals
\$10 in new revenue for medical offices
and nursing homes.

\$ **For-Profit healthcare organization**

Investments in energy performance yielding a 5% reduction in energy costs, increases **earnings per share by one penny** for hospitals, medical offices or nursing homes.



Managing your energy increases your competitiveness, as a facility manager and as a hospital.

These numbers come from our healthcare partners and illustrate the power of making energy efficiency investments.

- For a Non-Profit hospital, saving energy is like having an equivalent revenue of 10-20 times the actual energy cost savings.

- Or with a For-Profit organization is like having a penny increase on earnings for every 5% reduction in energy costs.

Healthcare: Industry-wide Savings Potential



- Reduce energy use by 10%...
- Save \$600 million dollars
- Nearly 7 billion kWh of electricity
- Prevent greenhouse gas emissions equal to that of 900,000 cars



Energy prices are rising and unfortunately will continue to rise in the foreseeable future.

If all healthcare organizations nationwide reduced energy consumption by an average of 10% for one year, the healthcare industry would:

- Save \$600 million dollars,
- Reduce electricity use by 7 billion kWh, and
- Prevent the emission of ghg equivalent of removing over 900,000 cars from the road for one year

So how about your facility? What's your potential savings?"

- In ENERGY STAR, we've seen individual hospitals in existing facilities achieve energy savings of up to 30%.
- And there are no trade-offs in terms building comfort.
 - i.e., better IAQ, it improves patient comfort and employee productivity, and it also improves environmental reputation.

SIDE NOTE:

If asked about conversions/calculations: Information above applies EPA national averages for converting electricity to carbon emissions (1.55 lbs of CO₂ per kWh) and carbon emissions to cars take off the road (11,560 lbs CO₂ per car)

ENERGY STAR A Voluntary Partnership



- Environmental leadership through superior energy performance
- Guidance, tools, and resources help organizations achieve superior energy performance
- Internationally recognized* brand

**Recognized internationally across Europe, Australia, Japan, and Canada.*

What is ENERGY STAR?

- Voluntary government program that help Americans reduce ghg emissions and manage and improve the energy efficiency of their homes and businesses.
- And we do that by providing unbiased information, tools and best practices.
- National symbol for superior energy performance.
- Awareness of the label is really growing. Almost 70% of Americans recognize it is the symbol for e.e. and that recognition is growing more each year.
- Also recognized internationally, which speaks to the success of the program.

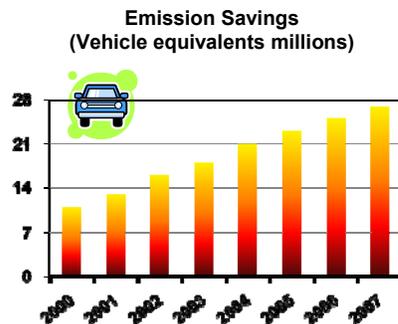
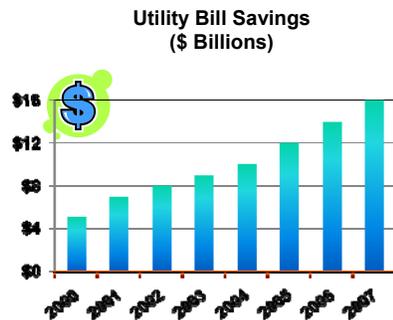
What Is ENERGY STAR?

Homes, Buildings, Products



- We label products, buildings and new homes.
- Computers and monitors were the first labeled products. Since then, EPA expanded the label to over 50 different categories.
- More than 2.5 billion ES-qualified products have been sold since 1992 so chances are high that this label is on your computer, refrigerator, air conditioner or clothes washer.
- Products that earn the ES prevent ghg emissions by meeting strict e.e. guidelines set by EPA/DOE.

ENERGY STAR Accomplishments



Over 12,000 ENERGY STAR Partners

Benchmarked in Portfolio Manager	Earned the ENERGY STAR
7.5+ billion sq. ft.	740+ million sq.ft. 
62,000+ buildings	4,000+ labeled buildings
55% increase over 2006	Use nearly 40% less energy

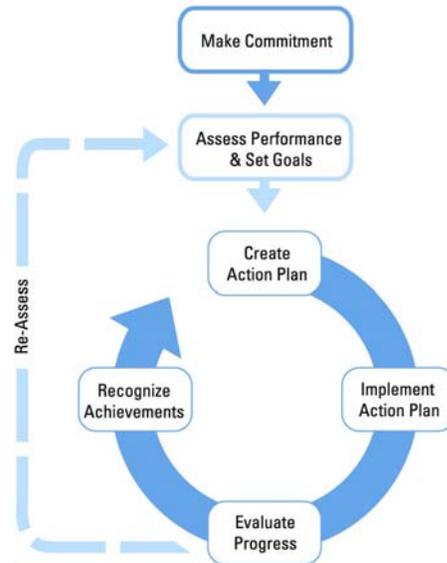
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- The program has been quite successful financially and environmentally.
 - If you look at the graph on the left, last year alone (2007), the ES saved consumers \$16 billion on their utility bills;
 - And the chart on the right shows greenhouse gas emission reductions equivalent to taking 27 million cars off the road.
 - The numbers have more than doubled since 2000. And annual emissions are on track to nearly double again in 10 years.
- In terms of benchmarking using Portfolio Manager . . .
 - Over 7.5 billion square feet of commercial space have been benchmarked; double from previous year.
 - 55% hospitals have been benchmarked.
- Over 4,000 buildings nationwide earned the ENERGY STAR Label covering 740 million sq. ft.
 - What makes ES so impressive is they use 35% less energy. Imagine if you could reduce the energy consumed in your healthcare facility by 35%.
- This program works well because of partnerships. Over 12,000 organizations partner with EPA in the Program.

The ENERGY STAR Approach to Energy Management



Commit to continuous energy performance improvement.



- So how do building owners and operators go about achieving these savings?
- This graphic represents Energy Star strategy. Essentially this approach is all about making continuous improvement and implementing good energy management practices on an on-going basis to maximize the savings from your facility.
- This is not something EPA cooked up on its own. We looked at ES partners with the best energy management practices and identified key elements that are enabling them to be successful.
- Notice the first step is to make a commitment. Become an ES partner. It's free to join.
- The next step is benchmarking or assessing the energy performance of your building with PM, which is what we will focus on today.
- No matter where you are in the process of this approach, you will have access to a plethora of ES tools and resources and other benefits to help you each step of the way.

How well is your building performing?



Is 10 MPG high or low for an automobile?



Answer: Common Knowledge

Fuel Efficiency
MPG



Is 550 kBtu/SF/YR high or low for a hospital?



Answer: Even some facility experts don't know

Energy Efficiency
1 - 100

Metric	Value
Energy Intensity (kBtu/SF/yr)	550
Electricity (kWh/SF/yr)	100
Gas (kBtu/SF/yr)	100

Let's define benchmarking, as a point of reference from which to make comparisons.

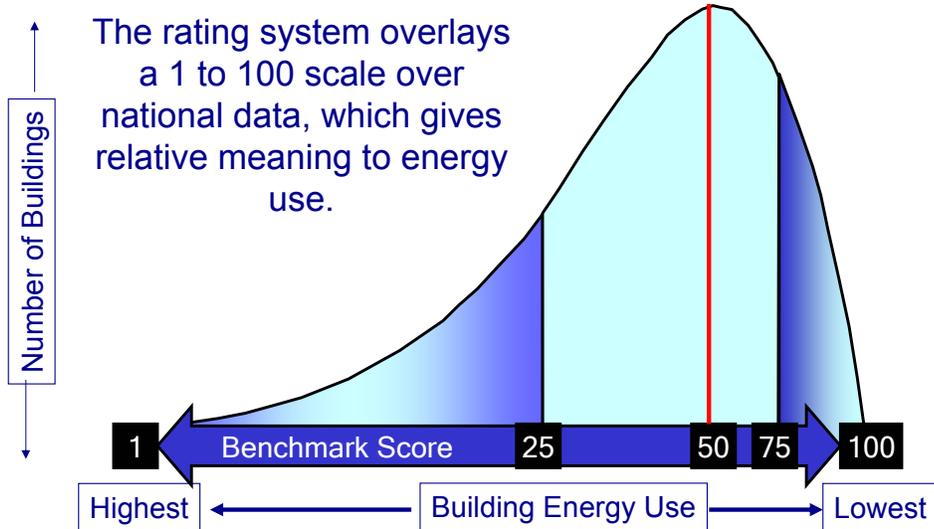
- We use metrics to make decisions everyday. For example, most of us know how many miles per gallon our cars get, and can understand if it is efficient or a gas guzzler. If your car was only getting 10 mpg when similar cars are getting 27 mpg, you would know from experience this is very poor performance and would probably take it to a garage and have your engine checked.

- Is 550 kBtu/SF/yr is high or low for a hospital? The answer is complicated because energy intensity depends on different interrelated variables like: size, occupancy, space use characteristics, and weather and so forth.

- Even building managers often can't tell you whether their building is a high or low energy performer.
- Just like efficiency metrics have been established for cars, EPA likewise established a quantitative, objective metric for buildings.
- Prior to the EPRS, there was not a way to benchmark and determine how a building is performing.

- After the rating is generated, you can print a **Statement of Energy Performance**, a management report, that is analogous to the **sticker** that is placed in the window of a new car.

U.S. EPA Energy Performance Rating System



In relation to the 100 point scale, all buildings will fall somewhere along this curve in terms of energy performance regardless of the sector.

Notice that **1** is the lowest rating and corresponds to facilities using the most energy per sq ft.; **100** is the highest and represent facilities using the least energy per sq ft.; **50** is the industry average.

A score of **75** means that the hospital is more energy efficient than 75% of the similar building stock across the country and is eligible for the ENERGY STAR.

Technology ≠ Performance



60% of building fan systems
oversized on average 60%

(Source: EPA fan study)

Chillers oversized by 50-200%

(Source: Lawrence Berkeley National Laboratory)

Improper installation and poor maintenance

Green is big thing today . . .

- Why doesn't superior technology guarantee superior performance? While there is still more work to do to understand all the reasons, studies by EPA and others point to a significant mismatch of building systems as a very important reason for poor performance.
- If technologies are oversized, they are not achieving their rated efficiency. Other, related factors include systems that are not integrated, improper installation, tuning, and poor maintenance.
- Often we hear people say they know their building is inefficient because its old, and others who assume their building is efficient because its new. The fact is, that is often not the case.
- We've seen cases where 100 year old buildings qualify for the Label. We have also seen brand new facilities that were thought to be built efficiently, some even built green, who rated very low on our scale.
- The important lesson here is that unless you benchmark, you don't know how you are performing.

U.S. EPA Energy Performance Rating System



Normalizes building energy consumption

Weather-normalized whole building “mpg” rating

Benchmarks for comparison

Similar buildings in national stock

Recognizes top performing buildings

Top 25% qualify for ENERGY STAR

What does the EPA energy performance rating system do? You input a year’s worth of energy data and some key characteristics of your building, and the system provides you with a rating on a scale of 1-100. In addition to square feet, the energy performance rating normalizes for weather, hours of operations, occupant density, and plug load.

The rating is comparable within org and across industries. It normalizes for weather variations, hours of operations, occupant density, and plug load, to make an accurate **comparison** of your building’s energy performance with the **national stock relative to peer buildings**. Therefore, you have a **valid basis** for how your hospital is performing in comparison to other hospitals nationwide.

Top performing buildings are recognized for outstanding performance, we’ll talk more about recognition opportunities and the ES label throughout the training.

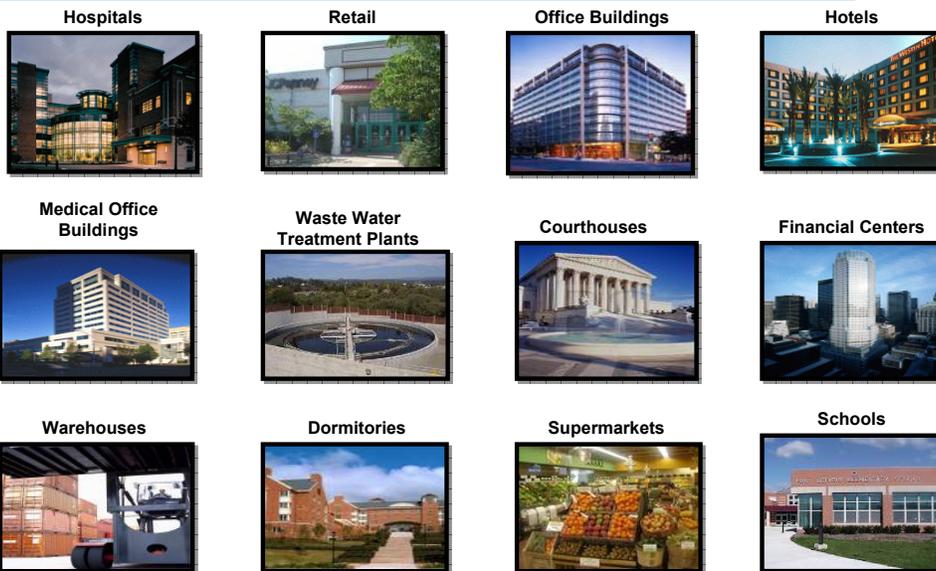
The ENERGY PERFORMANCE RATING SYSTEM will also be able to identify portfolio improvement.

CBECS - Commercial Building Energy Consumption Survey

DOE EIA - Energy Information

Administration

Eligible Space Types



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These are all the space types that are eligible to receive the EPA rating using Portfolio Manager.

- MOBs, acute care and children’s hospitals can be benchmarked. If you have a multiple building campus, the score you receive will be for the entire campus.
- 55% of the healthcare market has already rated their energy performance.
- Also, if you own or manage office buildings, you can rate your HQ, corporate office building, and leased properties. Today, we will focus on the Medical Office and/or Hospital benchmark(s).
- The concepts and process of rating are similar for all of these space types.

NOTE: Even if a facility do not qualify to get the rating, you can still benchmark and track improvements against a baseline over time. The only thing you can’t do is get the 1-100 rating.

How the rating is calculated.

EPA conducts statistical analysis on data gathered by DOE’s EIA during its quadrennial CBECS. For each bldg type EPA offers a rating, we go through a rigorous process that involves:

1. Ensuring the quality and quantity of the data will support a rating;
2. Creating a statistical model that correlates the energy data to the operational characteristics of each bldg to identify the key drivers of energy use; and
3. Testing the model with real buildings

Is my Hospital Eligible?



Hospitals

- ✓ 51% for acute care or children's hospital space
- ✓ 10,000 square feet *
- ✓ Occupied 11 of the last 12 months
- ✓ 10% or less designated as computer data center
- ✓ 12 consecutive months of energy data

Medical Office Buildings

- ✓ 51% medical office space
- ✓ 5,000 square feet *
- ✓ Occupied 11 of the last 12 months
- ✓ 10% or less designated as computer data center
- ✓ 12 consecutive months of energy data
- ✓ 50% or less designated as ambulatory surgical center *

* Data unique to building type

In order to be eligible to receive a national EPR, your facility has to meet these requirements.

- These thresholds are set to make sure that your building falls into the operation pattern consistent with that of the peer group used for comparison.
- Note, there must be at least 12 full consecutive calendar months of energy data for all active meters. If there are multiple meters, there must be 11 consecutive and overlapping months.
- Notice that both the hospital campus and MOB must be occupied for at least 11 months, and only 10% or less of the total sq ft can be computer data centers.

Benchmarking Data Needs Hospital Campus



General

Address (+ Zipcode)
Year built

Energy Consumption

12 consecutive months for each source (electric,
gas, etc.)

Space Type Data

Square Footage
Licensed beds
buildings on campus
floors in tallest building
Yes/No: Tertiary care, lab, & laundry

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This is the information you need to benchmark Medical Office Buildings. The rating tool requires 12 consecutive months of utility bills for all sources of energy—electricity, gas, oil, steam—and the other basic inputs listed on the slide.

Zip code is very important because it normalizes for weather.

The space data is different for MOB. <Read slide>

One of the top barriers to BM cited by plant managers and engineers is that it's time consuming. Well, it takes less time than you think.

If you already have data about the bldg sq, occupancy usage, operating hours and energy data, the process should take less than an hour.

If you need to gather the space or energy data from another department, the process will take longer depending on the responsiveness of your colleagues.

Next you will input the monthly energy consumption and cost data, which takes less than 5 minutes.

If the tenants are metered and billed directly from the utility company, the process may take up to 2 weeks or longer, only because you will have to get permission to gain access to their energy data from the utility company.

If you encounter difficulty gaining access to the utility bills, we can help. When tenants are directly billed from utility co, you can download 2 letters from ES website.

- **Tenant Benefits Letter** - It summarizes the tenant benefits of allowing you to gain access to their utility data.

- **Utility Release Authorization Form** to be signed by the tenant and submitted to the utility company, giving you permission to gain access to their utility data. Also, many utility companies have energy data online for easy access by authorized parties. If your tenant is an ES partner, they're most likely to share their energy data. You can check the ES website to see the list of current ES partners.

Also, **Automated Benchmarking** is available for companies that have an energy info provider. A list Energy Service Providers currently working in collaboration with ES on Automated benchmarking can be found on the Tools and Resources page on the ES website.

Benchmarking Data Needs Medical Office Building



General

Address (+ zipcode)
Year built

Energy Consumption

12 consecutive months for each source (electric,
gas, etc.)

Space Type Data

Square Footage
Occupancy
Number of Workers
Hours of operation
% Heated and Cooled

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This the information you need to benchmark Medical Office Buildings. The rating tool requires 12 consecutive months of utility bills for all sources of energy -- electricity, gas, oil, steam—and the other basic inputs listed on the slide.

Zip code is very important because it normalizes for weather.



*Set up your own free
private account at*

www.energystar.gov/benchmark

Now I want to show you a couple of screen shots of the rating System.

Visit the ENERGY STAR Web site's main page to learn about the range of tools and resources offered by EPA.



This is the ES home page.

There are many tools and resources here for you, not just for buildings.

If you're building a new home; or if you want to make your existing home or apartment more e.e. Or if you want to buy ES labeled products. In your spare time, browse around.

Access Portfolio Manager Web Page

(1) Click **BUILDINGS & PLANTS** on the ENERGY STAR home page.

(2) Click the Portfolio Manager link to login or create a new account

(3) Click **Portfolio Manager** to read more about the rating system.

-From here we go to Buildings and Plants.

-All tools and resources on this page is designed for building owners, business owners, managers and developers.

-From here, click on Portfolio Manager to login or create a new account.

-**Quick Finder.** Very useful. You will be using it very often.

-Portfolio Manager. More info about PM like recognition opportunities; Related tools like Target Finder – establish an energy performance target for building designs. Companion to PM. Can be designated as Designed to Earn ES.

- You can find labeled buildings in all categories. Click bldg type. Click on all states.

The screenshot shows the Energy Star website interface. At the top right is the Energy Star logo. Below it is a navigation bar with links for 'Products', 'Home Improvement', 'New Homes', 'Buildings & Plants', and 'Partner Resources'. The main content area is titled 'ENERGY STAR for Healthcare' and includes a sub-header 'SUPERIOR ENERGY MANAGEMENT CREATES ENVIRONMENTAL LEADERS'. A search bar is located above the navigation bar. On the left side, there is a sidebar with categories like 'Buildings & Plants', 'Getting Started for...', and 'What You Can Do'. The 'What You Can Do' section lists several resources, including 'Join ENERGY STAR', 'Prepare an Energy Strategy for the Future', and 'Read the Healthcare Fact Sheet'. On the right side, there is a 'Quick Finder' section with a 'Portfolio Manager Login' button circled in red. The URL 'www.energystar.gov/benchmark' is displayed at the bottom of the page.

Login button to Portfolio Manager. Can also get here by going directly to energystar.gov/benchmark.

We also have a Healthcare-specific page. All tools and resources on this page are designed specifically for healthcare facilities. Its broken into several sections:

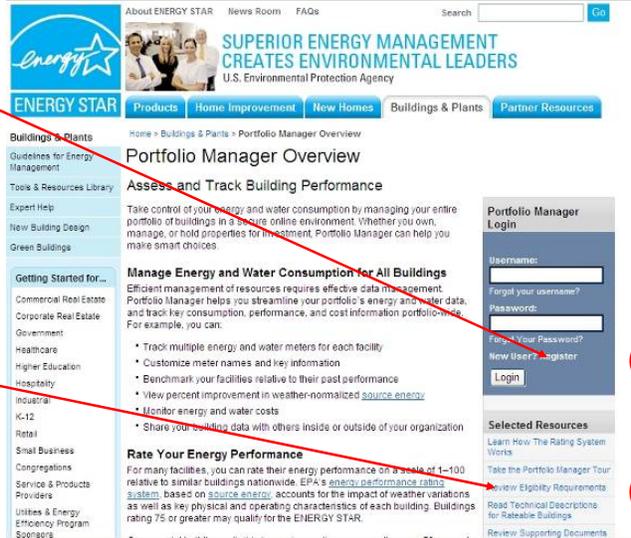
- What you can do
- What others are doing
- Success stories
- Opportunities to earn recognition for your achievements, and
- Related products

Portfolio Manager Web Page



(1) Click the “Register” link to open a new account. Once you have created an account, you may access it by clicking “Login” button on this page (see page 16).

(2) The Review Support Documents link takes you to technical and background information on Portfolio Manager.



Note: Users can go to this page directly by entering www.energystar.gov/benchmark

- Login to Portfolio Manager. {Read slide}
- After you click on PM, click on “Register” if you are a new user to create an account.
- One word of caution. You should never share your PM password with anybody because they can go in your account, change your password, and then you will not be able to access your own data.
- Instead of sharing your password there is a feature in PM where you can share your account with a colleague by asking for their username only.

Creating a New Account: New User Registration



- (1) Select a user name and password, which must be at least 8 characters. Both are needed to log in to the Portfolio Manager.
- (2) Enter user contact information.
- (3) Additional, optional questions (not shown here) can help ENERGY STAR anonymously track activity.
- (4) Click "Save" to save and submit your information (not shown here).

PORTFOLIO MANAGER
EPA's system for helping you track and improve energy efficiency across your entire portfolio of buildings. [? HELP](#)

Account Information

Please complete the following information to set up your account in Portfolio Manager.

REQUIRED

*Username:

Your password must be between 8 and 32 characters in length (letters and numbers only; no special characters).

*Enter Password:

*Re-Enter Password:

*First Name:

*Last Name:

*E-mail:

Title:

Organization:

Address:

City:

State:

ZIP Code:

{Read slide}

After you complete this screen, it will advance to other pages to enter info about your building we just talked about.

Again, a SEP is automatically generated once you have entered everything.

..

Where to Go For Technical Questions



Select  from the

top of any Portfolio Manager screen

Email: Buildings@ENERGYSTAR.gov



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When you have questions about using Portfolio Manager, email buildings@energystar.gov.

You can also seek help using the Contact Us button at the top of every PM Webpage. You will get a response within 24 hours (often sooner).

About






- Proven Strategies
- Energy Saving Tips and Tools
- Education and Training
- Case Studies
- Networking
- Recognition

- In 2006, ASHE introduced the Energy Efficiency Commitment Initiative, or E2C. The program was designed to empower ASHE members with useful tools, education, and professional networking opportunities to take action and lower energy use.

- Recognition for energy reductions of 10% or more.

- No-cost benefit to ASHE members.

- To participate, ASHE has set up a “Master Account” in PM that you can all “share” into once you’ve benchmarked your hospital.

- By “Sharing” your hospital to the ASHE account, notifies ASHE that you’re participating. This enables them to confidentially have a list of participating members, track progress, and recognize achievements over time.

NOTE:

- *This year alone (2008), participation has nearly doubled from 152 to 311 participants in the E2C account.*

- *Since the initiative’s inception, 16 healthcare facilities have been recognized for reducing their energy consumption by at least 10%. In 2007, the 12 healthcare facilities that were recognized for reducing their energy use by 10% or more saved enough electricity to light more than 3,300 homes for a year and prevented the emissions of 10 million pounds of carbon dioxide, the equivalent emissions from more than 880 cars.*

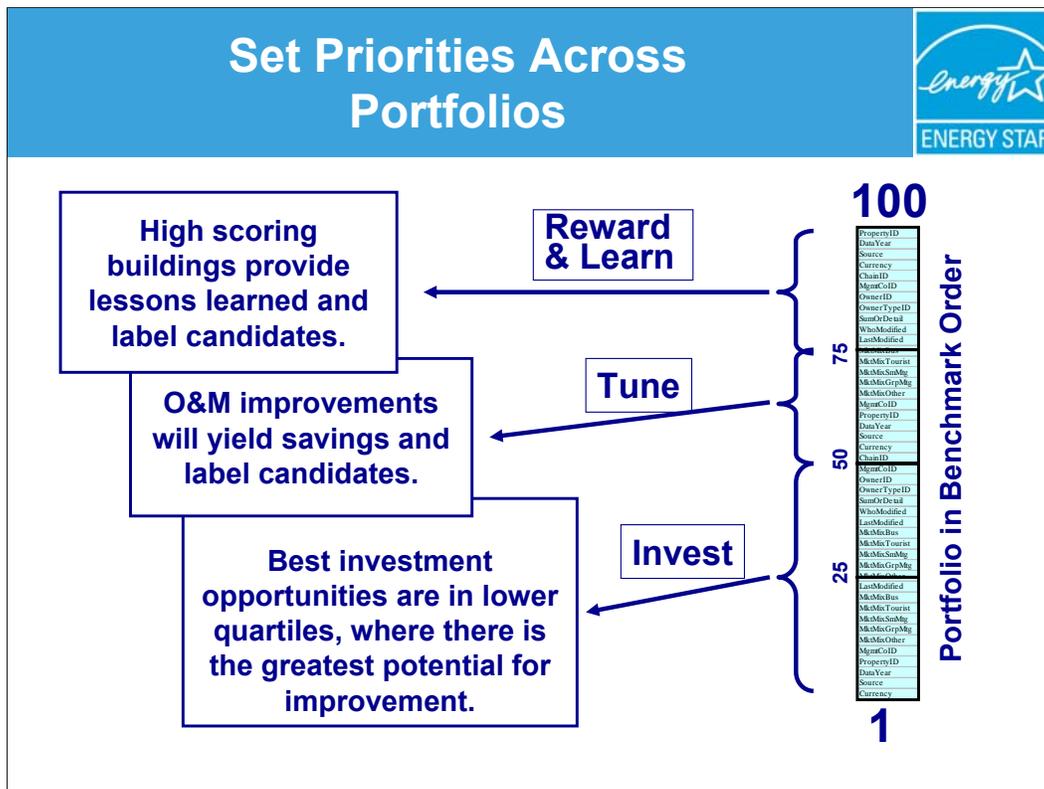
- *In one year alone, these hospitals saved more than \$625,000, an average of \$50,000 per facility on their electricity bills (other utilities are not included here).*

ENERGY STAR for Hospitals



I've got a rating – now what?

Have the rating, now what? What does that mean?



You can use the rating to make more informed decisions about what to do next with regards to prioritizing improvements and upgrades.

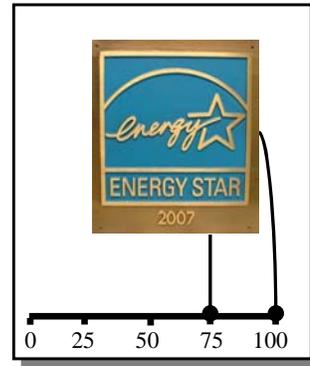
- Ratings between 1-49 are the lowest performers. These facilities are performing below the national avg. and present the greatest potential for financial and environmental improvements.
- Ratings between 50-74 are performing above industry avg and may be within reach of achieving ES with low cost operational improvements.
- Between 75-100 are top performers. The opportunity to be recognized exists. Eligible for the ES label. Can apply lessons learned to other facilities. Recognize staff and externally demonstrate your environmental leadership.
- For those campuses scoring in the top quartile, In a multi-campus situation, the poorer performing campuses can learn about technologies and operations practices and procedures that can help improve performance.

Recognition: Earn the ENERGY STAR



Buildings that score 75 or better can now apply for the ENERGY STAR.

Qualifying buildings must also meet standards for indoor air quality, lighting, ventilation, and thermal comfort (ASHRAE)



One of the most well known recognition opportunity is the ES label. Orgs proudly display label plaque in lobbies, entrances and a s special display. Distinguishes your facility as a top energy performer and demonstrates your commitment to improve the environment.

Buildings that score 75 or above and meet or exceed industry standards for indoor air quality can earn the ENERGY STAR. The ENERGY STAR plaque on a qualifying building means superior energy performance.

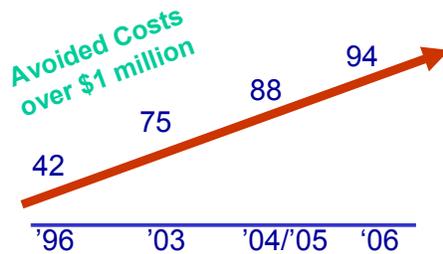
EPA will include your building in the registry of labeled buildings. IF you bldg earn rating between 75-100, you need a PE professional engineer come to the bldg and verify the data entered in PM. The PE completes the SEP and submit it and the label applic to EPA. Once approved the ES plaque arrives at your hospital with 3-4 weeks of approval. Then you have the opportunity to create and submit a bldg profile, which I highly recommend.

Low Carbon Hospital Case Study

Shriners Hospital for Children, Houston, TX



- Cut electricity use 18%
- Reduced chilled water consumption 30%
- Reduced steam demand 37%



Lighting: They installed LED exit signs that use 1/10 the ampacity of a standard sign. They also installed occupancy sensors in public areas and mechanical timers in non-public areas to keep the lights off when areas are not in use.

Fan Systems: They balanced the air and water systems throughout the hospital, decreasing kWh by 68,900 in nine months, and installed energy-efficient motors and variable frequency drives

HVAC: They installed new, energy-efficient motors and two new chilled water pumps. For one section of the hospital, they installed a split-HVAC system so that rooms are air conditioned by the larger part (87.6 ton) of the system when they are fully occupied and by the smaller (1.5 ton) when they are not.

With the enhanced split-HVAC system in place, they interlocked the new A/C unit through the energy management system, allowing only one of the units to operate at a time. HVAC certification and refrigeration maintenance were considered essential to optimize performance.

Energy Management: The energy manager maintains and regularly reviews records of all of our energy bills, savings, anticipated savings, future technologies for investment, and opportunities for savings. They keep detailed spreadsheets regarding our energy use and use the Portfolio Manager tool to track progress.

Low Carbon Hospital Case Study

St. Francis Hospital & Health Services,
Marysville, MO



- Cut gas bill by 50%
- Reduced electricity bill by 17%
- Increased rating to 91 in one year



- Evaluated building equipment
- Reduced operating time of boilers
- Water temperature controls
- Replaced boiler burners
- Correctly installed heat exchanger
- Installed T8s



- On-Line Training
 - Pre-recorded sessions
 - Live web conferences

- Targeted Sector Resources
 - Benchmarking Starter Kits for Healthcare

- Reference Materials
 - Portfolio Manager tour
 - Eligibility requirements
 - Instructions on submitting & managing a building profile
 - Technical descriptions of rating methodology

The benchmarking portal page on energystar.gov is where you can find information and resources to get started with benchmarking your building's energy performance.

On-Line Training (see "Quick Finder" link)

Live Web conferences with industry experts

Pre-recorded sessions with ENERGY STAR trainers

Host of resources, including in-depth training on how to use Portfolio manager, and sector-specific informational tools and resources to help you improve your facility's energy performance.

Get Started



- Free webinar benchmarking trainings held monthly, free of charge.
- **Next session: Oct. 7 at 1:00 EST**
- Entitled “Rating Energy Performance with EPA's Portfolio Manager for Healthcare Facilities: A Hands-on Workshop”
- Register at www.energystar.gov/

▪ The next step is to learn how to benchmark. I strongly recommend attending a PM training. It's a 2 hour comprehensive training that will walk you through the BM process, step by step. Once your facility has an EPR you will want to identify energy reduction opportunities.

▪ The Best Practices to Improve Energy Performance training offers a plethora of energy reduction opportunities. You'll choose the one you want to implement and track your performance over time.

▪ A calendar of trainings can be found at <https://energystar.webex.com>

▪ After attending a PM training, you'll be ready to start benchmarking. Go to www.energystar.gov/benchmark and open a PM account. Click new user and complete the new user form. Then login and start benchmarking by putting space and energy data for your facility. You can receive assistance by clicking contact us on any PM page.

Thank you and the ES healthcare team look forward to working with you to improve the ep of your bldg.

Please check out the ES website at for a complete list of tools and resources. Thank you.

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