Welcome to CHA's Webinar: Energy and Catholic Health Care



October 8, 2009



Our Faculty



Sr. Susanne M. Hartung, SP

Chief Mission Integration Officer

Providence Health and Services, Washington and Montana Regions

Richard Beam, MBA

Director of Energy Management Office of Supply Chain Management Providence Health & Services

Clark Reed

Director of Healthcare Facilities Division, ENERGY STAR U.S. Environmental Protection Agency (EPA)

Reflection



Creator God, we can choose to live differently! Inspire us as we make choices so that we will recognize the impact our lives have on our environment and our human family around the globe.

We pray to the Lord: Lord, help to reclaim the future!

Let us who have a keen dedication and awareness of your creation and all that it brings to the human family, have courage and conviction that we are able to contribute to the sustainability of the Earth. You who are our Provident God, let your Providence lead the way in our Health and Services.

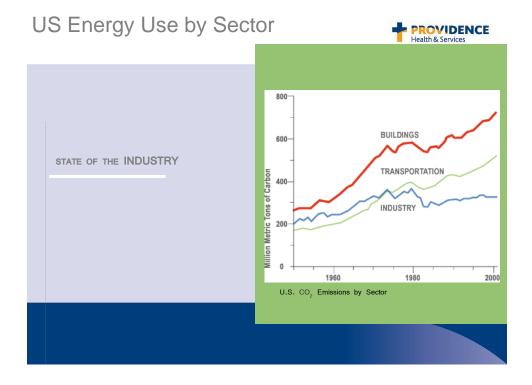
Pour out your blessing upon us today. May each of our actions reveal our awareness that we are partners with You in the creation and sustainability of this earth that you have given to us to appreciate and enjoy. We ask this in the name of your Son.

Amen

Energy and Catholic Health Care

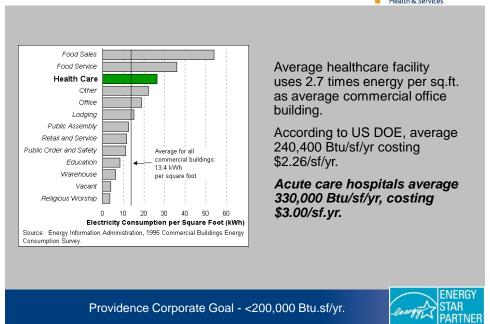


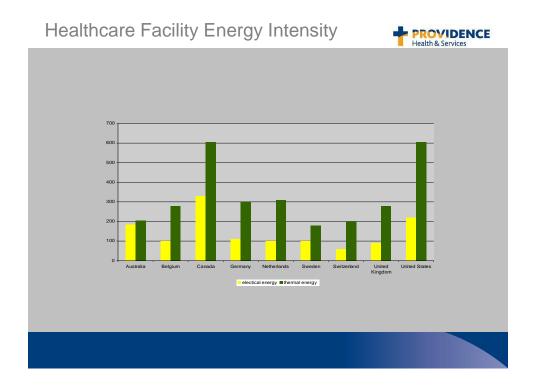
Providence Health & Services



US Hospitals Energy Use









Catholic Health Care Heritage

"We view natural resources as an occasion to praise God's Providence, and we promote the responsible use of goods that belong to all humanity."

Compassion Courage Caring Sisters of Providence IN THE WEST

Sisters of Providence Constitution and Rules, 1980

PH&S Core Value: Stewardship



The earth is the Lord's and all that is in it (Psalm 24:1)

We believe that everything entrusted to us is for the common good. We strive to care wisely for our people, our resources and our earth. We seek simplicity in our lives and in our work.











What Does It Mean ...





Financial Success – Value of Energy \$





Financial Success

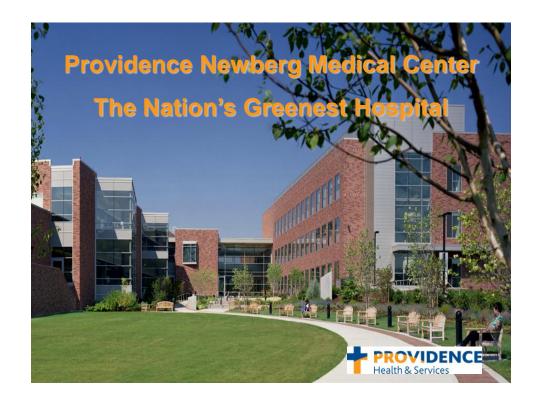




- 6% NOI
- 2007 \$4,084,078
 Energy Savings
 \$68,081,580
 Revenue Equivalent
- 1995 Year to Date
 \$23,782,990 Energy
 Savings

\$396,462,443 Revenue Equivalent





Socially & Environmentally Responsible – Guinness To Green



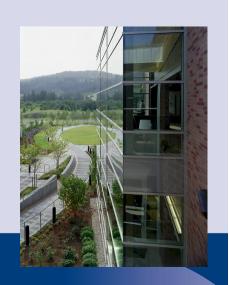
Providence Newberg Medical Center



Construction statistics



- 138,000 gsf acute care hospital, 40 beds
- 45,000 gsf medical office building
- \$49.3 million construction cost
- \$70.6 million total project cost
- \$385 per gsf



Financial



 < 1.4% cost impact to achieve LEED Gold

LEED costs \$690,200

Oregon energy tax credits \$214,345

Energy & sustainability grants \$277,040

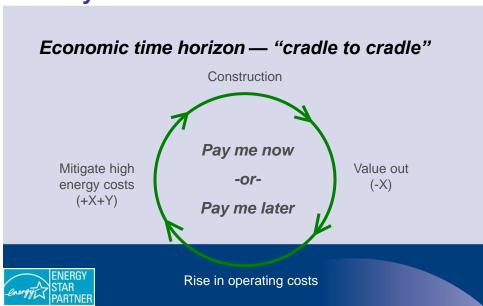
Net incremental cost \$198,615

- Annual energy savings \$178,753
- Return on investment:14 months



First Cost Syndrome Life cycle cost benefit





Benefit to the Community



- Employee and patient satisfaction
 - High Press Ganey scores
 - "New standard in healthcare facilities" UC Berkeley CBE
- Lower impact on community infrastructure
- Community Pride



Environmental



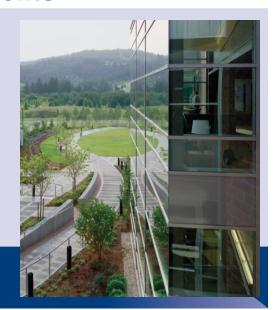
- Lowered carbon footprint by 35%
- Reduced storm water run-off to city by 50%
- Improved indoor air quality from 100% outside air



Additional Benefits



- Increased asset value
- Demonstrates a commitment to environmental stewardship and social responsibility
- Reduces harmful greenhouse gas emissions
- Healthier and safer for occupants



Action in Environmental Health



- · Toxicity Reduction in Purchasing
- Safer Materials
- Greener Cleaners
- · Less toxic sterilants and disinfectants
- Improved engineering controls and training
- DEHP Free Medical Devices



Green Operations - Material Control



- Waste prevention and Environmentally Preferable Purchasing
- Waste/Material Data Collection
- HIPAA/Confidential Paper mgmt
- · Red bag waste minimization, nonincineration treatment
- Reusable Sharps Containers
- Fluid Management Systems
- · Recycling programs
- Single-Use Device Reprocessing
- Universal waste recycling
- Food Composting/Regional Food Sourcing
- Reusables food serviceware, underpads, toters















Waste Data Control





- · Data Collection and reporting for multiple sites to one central location.
- Identification of \$600,000 in savings for the system due to red bag reduction, recycling and consolidation of vendors.
- Mercury elimination
- · Identified potential for recycling, vendor standardization, improved RMW segregation and a system approach to pharmaceutical waste management.
- Use of GGHC for continuous improvement

GREEN GUIDE for Health Care™





Operating Room Waste Reduction

- Boulder Community Hospital saved \$300,000 per year through blue wrap prevention – switched to reusable containers.
- Installation of suction canister evacuation system





EPP – Environmentally Preferred Purchasing





185 Berry Street, Suite 300 San Francisco, CA 94107 (415) 438-5500 telephone (415) 438-5724 facsimile

FOR IMMEDIATE RELEASE

Contact: Tricia Griffin, CHW (415) 438-5524

Susan Denby, B. Braun (610) 997-4856

CHW SWITCHES TO PVC/DEHP-FREE PRODUCTS TO IMPROVE PATIENT SAFETY AND PROTECT THE ENVIRONMENT

Healthcare Provider Awards \$70 Million Contract to B. Braun for PVC/DEHP-Free Supplies

San Francisco, Calif., November 21, 2005 – Catholic Healthcare West (CHW) announced today that it has awarded a five-year, \$70 million contract to B. Braun Medical Inc. for the supply of polyvinyl chloride (PVC)/ di-2-ethylhexyl phthalate (DEHP)-free intravenous (IV) bags, solutions, and tubing to the system's 40 hospitals in California, Arizona, and Nevada.

The contract award represents a significant victory in CHW's ongoing advocacy efforts with suppliers to ensure that products used in the hospital setting are safe for patients, employees, and the environment. CHW is the first major integrated delivery network to take such a strong position on the use of PVC/DEHP-free products.

Commitment to Health



Owner

"Providence Health & Services has two patients: the medical patient and the earth. To heal one without the other will not last." -Janine Benyus

Author of the book, Biomimicry - Innovation Inspired by Nature, in conversation with Richard Beam at the 2005 Inland NW Sustainability Conference, Boise, Idaho





Questions?



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ENERGY STAR for Healthcare: EPA's energy conservation program for healthcare organizations

Catholic Healthcare Association webinar October 8, 2009

Clark Reed U.S. Environmental Protection Agency

\$EPA

Learn more at energystar.gov

Today's Agenda

- Brief Overview of ENERGY STAR®
- Benchmark Energy Performance with Portfolio Manager
- ENERGY STAR campaigns

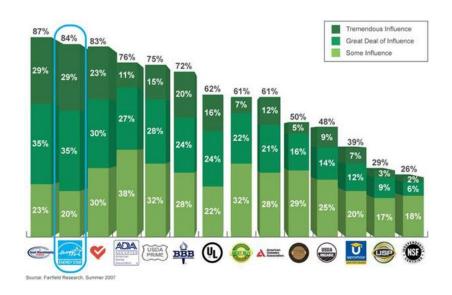
Polling Question: How is most electricity in the US generated? Is it...

- a. Burning coal, oil, and wood
- b. Nuclear power
- c. Solar energy
- d. Hydro-electric power plants

ENERGY STAR Program Overview

www.energystar.gov

ENERGY STAR is a Trusted Brand



ENERGY STAR



Also ENERGY STAR



AEGON Center Louisville, KY



St. Francis Hospital & Health Services Marysville, Missouri



500 Boylston St. Boston, MA



Hillsborough County Water Department Administration Building Hillsborough County, FL



Westin San Francisco Airport Millbrae, CA



Academy Longmont, CO



Blue Earth County Courthouse Mankato, MN

Energy Star provides energy efficient solutions to organizations

Hospitals



Medical Office Buildings



Waste Water Treatment Plants

Retail





Courthouses



Warehouses



Dormitories



Supermarkets



Schools









ENERGY STARHealthcare Partners















UPMC University of Pittsburgh













Energy is not a Fixed Cost of Business

The most energy efficient businesses in America use about 30% less energy than their competitors.

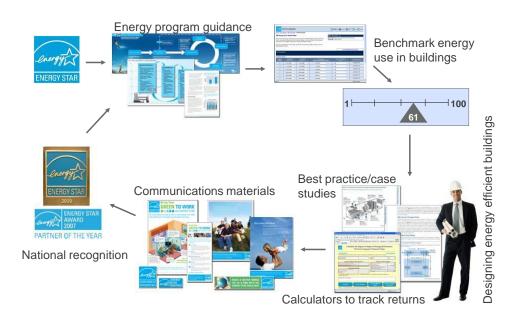
Financial Savings



Healthcare

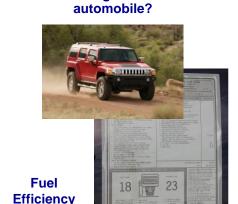
- \$1 saved on **energy costs** has the equivalent impact on the bottom line as:
- increasing revenues by \$20 in hospitals
- increasing revenues by \$10 in MOBs
 - *Assuming a 5% profit margin and a ratio of 80/20 fixed/variable costs

Climate Protection Resources



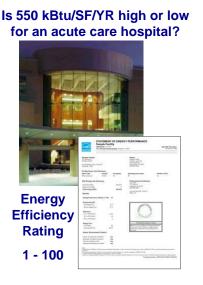
Portfolio Manager: EPA's Energy Performance Rating System

Assess Performance



MPG

Is 10 MPG high or low for an



Portfolio Manager Attributes

Track performance

Energy & water meters for a single facility Review historical data or before/after major upgrades or O&M

Weather normalized

Source energy and energy intensity (EUI)

Compare

Average EUI for your space category to your performance over time Group similar buildings together for benchmarking comparison

View percent improvement

Verify and track results (\$\$ and CO₂)

Eligible for ENERGY STAR rating

Hospital

Medical Office Building





Office Building



Dormitory



Retail



Waste Water **Treatment Plant**



Warehouse



Supermarket



Hotel



Court House



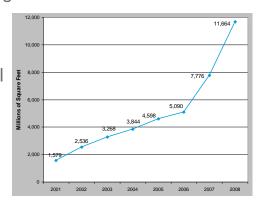
Bank/Financial



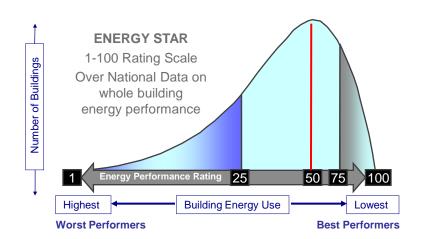
Market Penetration

More than **90,000** buildings have measured energy use in Portfolio Manager

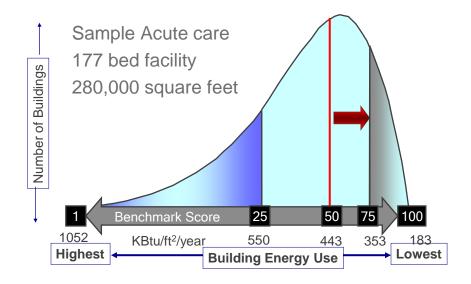
- Greater than 12.5 billion square feet
- 17% of commercial buildings market
- 76% of the acute care hospital market



ENERGY STAR 1-100 rating scale



U.S. EPA Energy Performance Rating System



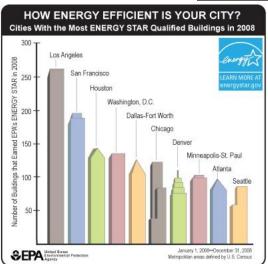
Building Recognition



ENERGY STAR Buildings: A Market Differentiator



- Over 8,100 buildings have earned the ENERGY STAR
- Occupancy/tenant retention is higher
- Higher asset value upon disposition



Low Carbon Hospital Case Study



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

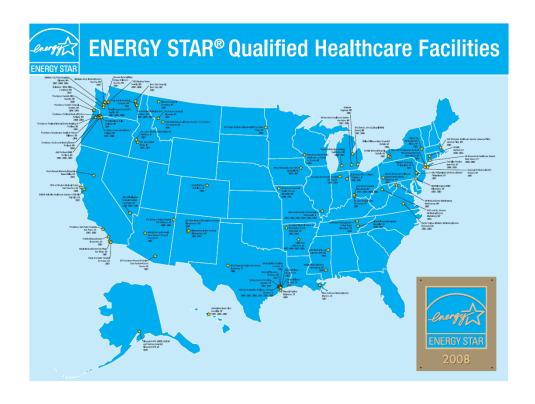




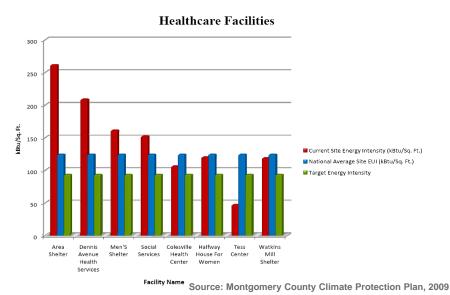
St. Francis Hospital & Health Services Marysville, Missouri





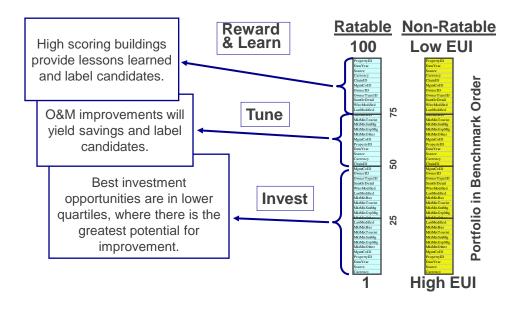


Non-ratable Spaces: Compare to National Average

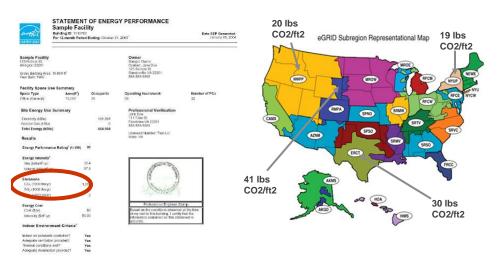


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Set Priorities Across Portfolios



Carbon Emissions Tracking



Emissions factors consistent with major GHG Reporting Protocols (e.g. WRI/World Business Council Protocol)

Maintaining an Accurate Rating

Monthly:

Input new energy data

At least quarterly:

Review space data for accuracy Edit if necessary





ASHE 46th Annual Conference & Technical Exhibition



ENERGY STAR Campaigns

Change the World, Start with ENERGY STAR Campaign







ENERGY STAR Low Carbon IT Campaign



Activate Sleep mode of computer hard drives and monitors

Spring Branch Independent School District activated sleep settings on 7,000 computers and monitors, and is now saving \$230,000 annually.

North Thurston Public Schools activated sleep settings on 4,000 computers and saves \$45,000 annually.

University of Wisconsin – Oshkosh activated system standby on 485 computers to save \$9,000 annually.

Order "Off the Shelf" Materials

Place your order at energystar.gov/publications

All publications are offered free of charge and also available electronically.

If you need to request large quantities, contact the ENERGY STAR Hotline at hotline@energystar.gov or call 1-888-782-7937.



Next Steps

Polling Question:

How important is saving energy in your organization?

- a. It is core to our mission and everyday work
- b. I think our facilities management people are working on it
- c. Just beginning to explore

Establish a Culture of Energy Conservation

- How to start your energy program
- Organizing your energy team
- Building capacity
- Sustaining the team
- Maintaining momentum

Available online at www.energystar.gov



Next Steps





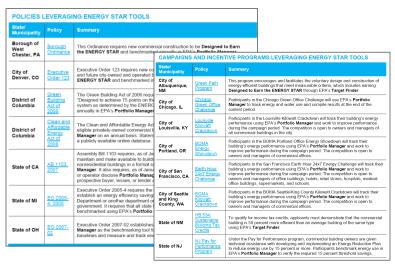
American Reinvestment and Recovery Act



- State Energy Program Funds
 - \$3.1 billion fund was allocated to states and territories
- Energy Efficiency Community Block Grants
 - \$2.7 billion in formula grants to states, cities, counties, tribes

Contact your State Energy Office to learn if funding opportunities are available to hospitals or other healthcare facilities

ENERGY STAR in legislation and voluntary campaigns



More at www.energystar.gov/government

Questions and Answers