Energy to Care and the Sustainability Roadmap

Improving Efficiency to Reduce Cost and Support Patient Care
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Health Care and Energy

1. Energy is ? of typical Facility Budget

2. Energy cost inflation vs. Consumer Price Index (CPI)

3. A dollar of energy savings is worth how much revenue?
Health Care and Energy

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2. Energy inflation vs. CPI: ~3% vs. 2%

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Health Care and Energy

1. Energy is ? of typical Facility Budget = 51%

2. Energy inflation vs. CPI: ~3% vs. 2%

3. A dollar of energy savings is equivalent to how much revenue? = $20!
G7 Per Capita Health Care Spending

Source: OECD
Per Capita Health Care Spending vs. G7

Source: OECD
Health Care Spending Percentage of GDP

Source: OECD
Why Should I Participate?

• Help healthcare reduce costs

• Help your ASHE chapter become Elite!

• Help your Facility
  - Track and save energy over time
  - Share goals and progress
  - Connect to C-Suite

• Provide training for your team
What is Energy to Care?

• Complimentary program to help health care \textcolor{red}{monitor}, \textcolor{red}{reduce}, \textcolor{red}{and} \textcolor{red}{communicate} energy consumption

• Awards and Success Stories (Recognition)

• Energy dashboard and system challenges (Tools)

• \textcolor{blue}{Energy data remains confidential} !!!
Energy to Care and the Sustainability Roadmap:
Supporting your energy-reduction efforts
Energy to Care Participation Rates

ENERGY TO CARE PARTICIPATION

- Inpatient
- Outpatient
- Totals


2144
1346
798
Geographic Distribution
Since inception, hospitals and health care facilities participating in ASHE's Energy to Care program have tracked more than $129 million in energy savings!
Energy Savings

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$2.58 Billion Financial Impact!
How do I participate in ETC?

Four steps to take advantage of the benefits of EtC:

1. Benchmark your data in Portfolio Manager®. [How-to | Video]
2. Connect your Portfolio Manager account with ASHE and share your data [How-to | Video]
3. Connect your Portfolio Manager account with Lucid’s BuildingOS and share your data [How-to]
4. Email Energy Star Username to Helpdesk when sharing step is complete [Helpdesk]

http://www.energytocare.com/start/
Buildings must have a score of 75 or higher to be Energy Star Certified.

- Sample Hospital Campus: 90
- Sample Hospital 2: 77
- Sample Medical Office Building 2: 62
- Sample Medical Office Building: 10

Energy Star score options:
- Energy Star score
- Site EUI
- Weather Normalized Site EUI
- Source EUI
- Weather Normalized Source EUI

MEDIAN SCORE: 70
BUILDINGS REPORTING A SCORE: 4 of 4
Track Utility Performance

Track performance over time against variables such as weather

Track performance at the system or site level
Chapter Challenge

320 hospitals across 12 States
Mid Year Results: Large Category

Average EUI Change from Baseline

1. California (-1.2%)

2. Texas (-0.8%)

3. Ohio (+ 0.3%)
Overview of Competition

1. Team competition between ASHE Chapters

2. Compares data between two years:

3. Energy use is tracked and weather normalized in ENERGY STAR’s Portfolio Manager

4. Two categories of competition
   - Small category (5-15 hospitals)
   - Large category (16 + hospitals)
Energy to Care: New Award!

• Must achieve a 10% energy savings over one year or 15% savings over two years

• New Energy Champion Award (single national winner)

• Award Application Deadline: April 1, 2017

http://energytocare.com/awards/
Energy to Care Success Stories

Midland Memorial Hospital

UF Health Shands

Indiana Regional Medical Center

Carolinas Healthcare System
Midland Memorial Hospital

- 781,000 square foot 474 bed hospital in Midland Texas
- Energy Star 12 to 75, saving $1M over a two-year period

**SPECIFIC MEASURES:**
- Benchmark in Energy Star and Energy to Care dashboard
- Energy Audit to see where to focus
- RCx AHU heat wheels to capture waste heat
- Steam trap testing and repairs
- Surgical lights to LEDs
- Establish facility heating/cooling standards
- Reduce patient rooms air changes from 6 to 4 ACH
- OR setback—20 ACH down to 6 while maintaining temperature, humidity and pressure relationship
Carolinas Healthcare at Pineville

- 479K square foot with 208 beds
- Pineville reduced energy consumption by 26% in 18 months
- Included energy efficiency as a key goal with all infrastructure improvement projects

**SPECIFIC MEASURES:**

- LED lighting and RCx lighting controls with occupancy sensors
- Collaboration with kitchen staff—what’s left on. New dietary checklist
  Reset DHW temperature after providing spot heating
Success Story Insights--Overview

• If you don’t benchmark, you cannot measure success

• Foster a culture of ownership -- Share goals and results

• Start with quick wins (low cost, high ROI) – Leverage BMS

• Partner with finance to make energy efficiency projects financially “sustainable”

• Setup a program to catch failed/overridden systems or components

• Leadership, set goals and empower your team to achieve them
Energy to Care toolkit

1. ENERGY TO CARE TOOLS AND RESOURCES
   Get answers to frequently asked questions about Energy to Care
   [ click here ]

2. VIDEO TUTORIALS FOR THE ENERGY TO CARE DASHBOARD BY LUCID
   Learn how to use your dashboard to track performance, share results with stakeholders, and support energy efficiency projects
   [ click here ]

3. PERFORMANCE IMPROVEMENT MEASURES (PIMS)
   Implement effective no-cost and low-cost projects to help your facility reduce energy consumption.
   [ click here ]
Resources: Sustainability Roadmap

SUSTAINABILITY Roadmap for Hospitals
A guide to achieving your sustainability goals

About  Topics  Drivers  Strategies  Implementation  Resources

Explore How-to-Guides for Sustainability
Access Robust Energy Dashboard via Energy to Care
Roadmap Supporters

Interested in being a supporter of the Sustainability Roadmap? Find out more!

Platinum Supporter:
Summary

• Energy to Care help hospitals continually improve efficiency and sustainability

• Programs are designed to be:
  ✓ Low cost
  ✓ Easy to implement and maintain

• Help your Industry, Facility, and Team
Call to Action

What can you do now to:

- Sign up for Energy to Care: http://www.energytocare.com/start/

In the future:
- Save enough energy to win an award next year?
- Ensure continuous savings over time?
- Tell your energy story?