OHA Energy & Sustainability Program
OSU Byrd Polar Research Institute
May 15, 2014

OHA and Hospitals: Potential to be Change Agents?

- OHA was the first state-level hospital trade association in U.S.
- OHA is the largest trade association in Ohio.
- OHA’s members include 219 hospitals and 13 health systems in Ohio.
- OHA as 7 personal membership societies ranging from nurse executives to health law attorneys.
- 6 of 10 largest employers in Ohio are hospitals.
- Ohio hospitals directly employ 282,000 people, including prominent and well-regarded medical care givers.
- Hospital governing boards consist of local or national leaders.
Why Energy Efficiency: Rising Healthcare Costs

Why Energy Efficiency?
Why Energy Efficiency: Public Health Impact

Asthma prevalence increase in U.S.: now at its highest level (7.3% to 8.4%)
Why Energy Efficiency: Hospital Resilience

[Image of a flooded hospital]

Why Energy Efficiency: Hospital Resilience

[Image of damaged hospital after disaster]

Ohio Hospital Association
Agencies Regulating Hospitals: The Communication Challenge


Ohio Hospital Association Energy & Sustainability Program

- Since 2000, OHA has intervened on behalf of hospitals in more than two dozen utility rate and energy portfolio (rebate) cases filed by the four investor-owned utilities in Ohio.
- Hospitals have received more than $6 million in rebates, saving more than $7 million annually in reduced energy use.
- Hospitals have improved energy efficiency by 4.7% since 2009, enough electric to power 240,000 homes and removing 13,556 cars from roads.
- Recent OHA Program Awards:
  - 2014 American Hospital Association Leadership Award
  - 2013 Ohio Environmental Council Environmental Innovator
  - 2012 Energy Efficiency Leadership Award from AEP Ohio
  - 2012 Innovation Award from the Midwest Energy Efficiency Alliance (MEEA)
  - 2012 Ohio EPA Environmental Education Fund Outstanding Project
  - 2012 Green Leader Award from the Mid-Ohio Regional Planning Commission (MORPC)
ENERGY STAR “Plus” Energy Management Process

- Make Commitment
  - Statewide benchmarking
  - Regular reports to Executive Suite

- Assess Performance & Set Goals
  - Implement No cost | Low Cost
  - Operational changes
  - Competing for capital funding

- Create Action Plan
  - John Chapman
  - Energy Efficiency Leadership
  - ASHE
  - HHI

- Recognize Achievement
  - Success stories shared among competitors
  - “Gaps” shared among peers

- Implement Action Plan
  - Utility Rebate Facilitation and Management

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Hospitals Served by OHA Energy & Sustainability Program

**AEP Ohio**
- 55 hospitals (11 CAHs)
- 40+ participating in OHAEP

**Duke Energy**
- 22 hospitals
- 2 participating in OHAEP

**Muni**
- 15 hospitals (2 CAH)
- 2 participating in OHAEP
- 2013 – initiated coordinated campaign with Efficiency Smart

**DP&L**
- 20 hospitals (2 CAH)
- 9 participating in OHAEP

**FirstEnergy**
- 64 hospitals (2 CAH)
- 15 participating in OHAEP

**Rural Co-op**
- 2 hospitals
ENERGY STAR Benchmarking (not current)

Relative Correlation between ENERGY STAR Score and Energy Costs

DRAFT
Communicating the Energy Efficiency Message to CEO’s

What does your ENERGY STAR score mean?
Your ENERGY STAR score is a summary tool used to help owners and operators of buildings improve performance.
A score of 75 or higher is a top performance.

The data shows:
- Reduce actual billed energy data
- Normalize for location, occupancy,
- Environment
- Complete buildings in a regional perspective
- Indicate the level of energy performance

The data set:
- Save the energy cost of each year of operation
- Email EPA's tools
- Track performance of your leadership
- Identify who is leading performance improvement

Current News and Upcoming Events
Senate Bill 330
- Senate Republicans introduced a plan on 3/28 to freeze Ohio's green energy requirements at current levels. The proposed Senate Bill 330 would limit the state’s 2015 energy efficiency requirement to a 4.2% reduction from the 2008 baseline. Current law requires electric utilities to help cut customer consumption until reaching a 22% reduction in 2025.

Points of contact at your organization
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Case Studies: Benchmark + Audit + Implementation = Improvement

<table>
<thead>
<tr>
<th>Year</th>
<th>ENERGY STAR score</th>
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<tbody>
<tr>
<td>2010</td>
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<td>2013</td>
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<table>
<thead>
<tr>
<th>Year</th>
<th>ENERGY STAR score</th>
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<tr>
<td>2011</td>
<td>40</td>
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<tr>
<td>2013</td>
<td>72</td>
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Energy Performance (kBtu/ft²)
- 6.9% reduction in weather normalized energy consumption
- 15% reduction in weather normalized energy consumption
Case Study: Energy Management Excellence (Recognition)

- Focus on energy efficiency began in early 1990’s
- 1993 project implemented electrical infrastructure, backup generation and campus-wide building automation
- Paradigm shift within culture – focus on implementing all reasonable cost saving measures
  - Nurses turn off lights on extremely warm days!

"Mercy recognizes the long-term importance of conservation and faithfully healing the earth. Our initiatives are helpful in challenging economic times but are here to stay. They will extend to all hospital areas because our mission calls us to be good stewards of the earth."

- Jeff Smith, Senior Vice President and COO

Recognize Success: HHI Leaner Energy Challenge
(http://healthierhospitals.org)

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
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<tbody>
<tr>
<td>Reduce greenhouse gases by decreasing weather-adjusted energy intensity from metered energy use by three percent from baseline.</td>
<td>Reduce greenhouse gases by decreasing weather-adjusted energy intensity from metered energy use by five percent from baseline.</td>
<td>Reduce greenhouse gases by decreasing weather-adjusted energy intensity from metered energy use by ten percent from baseline OR if facility is already an ENERGY STAR rated facility (&gt; 75), maintain ES status.</td>
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Baseline: Input energy data into ENERGY STAR Portfolio Manager to track energy use and GHG emissions
- Level 1 – 3% reduction
- Level 2 – 5% reduction
- Level 3 – 10% reduction (or >75 ES)
Communicating the Message/ OHA Education Calendar

- OHA Energy + Sustainability Conference – 6/2/14 (Cleveland)
- CleanMed 2014 – 6/3/14 to 6/5/14 (Cleveland)
- OHA Annual Meeting (ACHE credit) – 6/9/14 to 6/11/14 (Columbus)
- Ohio Society for Healthcare Facilities Management (OSHFM) Annual Conference – 9/26/14 (Columbus)
- OHA Energy + Sustainability Conference – Spring 2015 (Columbus)

Hospitals & Climate Change: Opportunity for Transformative Leadership?

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