Green for Health Care

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Credit to Ben Newton, Richland Community College, IGEN Member

IGEN
Illinois Green Economy Network
A Community College Partnership
Overview

- Background
- Setting the stage
- Greening Health Care
  - Examples
  - Resources
- Getting started
  - Green action teams
  - Champions
  - Benchmarking and goal setting
ILLINOIS GREEN ECONOMY NETWORK

- President-led consortium of all 48 Illinois community colleges

- Provides platform for collaboration to identify, establish, share best practices, and promote sustainability initiatives.

- IGEN builds cooperative efforts among community college faculty, staff and students and our community partners to catalyze sustainability implementation and green economic growth throughout the state.
Limited Resources

Source: www.globalfootprintnetwork.org
Climate Change

Ten Indicators of a Warming World

- Air Temperature Near Surface (Troposphere)
- Water Vapor
- Temperature Over Oceans
- Sea Surface Temperature
- Sea Level
- Ocean Heat Content
- Temperature Over Land
- Glaciers
- Snow Cover
- Sea Ice
Climate Change

WE'RE HERE
400 ppm

WE NEED TO GET BELOW:
350 ppm

CO₂ in the atmosphere (Annual Average)

www.350.org
The pie chart shows the distribution of deaths for 11 hazard categories as a percent of the total 19,958 deaths due to these hazards from 1970 to 2004. Heat/drought ranks highest, followed by severe weather, which includes events with multiple causes such as lightning, wind, and rain. This analysis ended prior to the 2005 hurricane season which resulted in approximately 2,000 deaths.
Population Growth

http://video.nationalgeographic.com/video/the-magazine/the-magazine-latest/ngm-7billion/
http://www.prb.org/wpds/2014/
The Ecological Footprint

MEASURES
how fast we consume resources and generate waste

COMPARED TO
how fast nature can absorb our waste and generate new resources.

Source: www.globalfootprintnetwork.org
What’s the Green Connection?
## Sustainability and Health Care

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<td>Natural resource use (for equipment, medicines and food)</td>
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<td>Stem cell research</td>
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Measure to Manage
A New Culture

- Leadership
- Vision
- Planning
- Accountability and Measurement
- Education and Communication within the Hospital
- Communication with the Community
- Program Partners
Building Your Team

- Trustees
- CFO
- CEO
- COO
- Sustainability Managers
- Custodial
- Public Safety
- Facilities
- Volunteers
- CHAMPIONS
  - green action teams
  - regular meetings and incentives
  - fun enforcement (phone pics)
Green Health Care Checklist

- Education and Organization Sustainability Efforts
  - Mission Statement, Green Team

- Buildings and Grounds
  - Energy, Water, Native Plants, USGBC LEED

- Operations
  - Waste, Environmental Services, Food Services

- Purchasing

- Patient Care

- Transportation
Financing

- Low hanging fruit first – no cost or low cost
- State and Federal Incentives
- Revolving Loan Fund
- Community

Benefits

- Performance excellence
- Cost savings
- Compliance and Risk Reduction
- Mission and Community Relations
St. Mary’s Green Team

- Facilities, Surgery, Administration, Sports Medicine, Marketing, and Waste Contractor
- Green Fund budget from scrap metal
- Service huddles with waste contractor
- Community programs- tree planting, electronics recycling day for staff
- My fitness pal app with Sodexo scans barcodes in cafeteria
St. Mary’s Goals for 2013

- Eliminate Styrofoam
- Eliminate/reduce Mercury (medicine)
- Reduce Confidential Waste Day
- Partnerships with Richland Ecoland club
- Well water for plantings
- Grease recycling
- Donations to the Mission
- Green Section on website
**Best Practices**

- St. John’s Hospital Springfield, IL
- Kaiser Permanente (West coast and Georgia)
  - Fact Sheets on Climate Change-reduce 30% by 2020, Safer Chemicals- PVC Free, Sustainable Food- Increase to 20% by 2015
- Dignity Health (San Francisco, CA)
  - Saved 5.6 million by increasing use of reusable products
  - Reusable sharps containers eliminated over 1 million tons of red plastic and 73,000 tons of cardboard
- Healthier Hospitals Initiative April 2012
First, DO NO HARM
Precautionary Principle

- Less than 1% LEED certified buildings
- Second most energy intensive commercial building type behind food industry
- Annually 5 million tons of waste
- Huge water quantities
- Pump in fresh air to reduce infection
- Medical waste burned in incinerators
  - Dioxins, mercury, toxins
Green Health Care findings

- Already mechanisms in place working with hospitals (Practice GreenHealth, Green Teams, Waste Contractors, Kaiser Permanente Sustainability Scorecard for Medical Products)
- Partnerships with Hospital Green teams
- Policies- Mercury free, DEHP Free (Phalates in flexible PVC and IV Bags/tubing), Pharmaceutical disposal, green cleaners
- USGBC LEED for Healthcare
- Appeal to Patients?
What We Do

HHI Admin - Date: 1/25/2012 - 11:25 am

The Healthier Hospitals Initiative is a call-to-action for an entire industry. It is an invitation for healthcare organizations across the country to join the shift to a more sustainable business model, and a challenge for them to address the health and environmental impacts of their industry.

By creating a collaborative setting which engages all stakeholder groups and gives each individual player the tools they need to succeed, HHI has created a platform to help healthcare organizations affect widespread, meaningful change.

Through the collaboration of world-renowned industry experts, HHI has developed and is proud to feature a suite of tools intended to make the fulfillment of this mission as easy as possible:

- Easy-to-use mechanisms for identifying metrics and collecting data
- Access to a broad-based community through the HHI network
- Hospital-to-hospital mentorship programs
- Interactive, content-focused webinars
- Detailed "How-To Guides" for each Challenge area
- Insight into how others have achieved success – case studies, success stories, leadership insights

About HHI

- What We Do
- Who We Are
- Participating Hospitals
- Business Supporters
- Supporting Organizations
- Contact Us

Enroll Now with HHI

Three organizations and Eleven Sponsoring Health Systems invite you to join them in leading communities to a healthier future. Enroll in healthier hospitals initiative. Learn More

Connect with HHI

Become a Sponsor

Hospitals rely on responsible business partners to meet their environmental goals. Demonstrate leadership in the sector – Become a Business Sponsor of Healthier Hospitals Initiative. Learn More
Standardized Environmental Questions for Medical Products

The Latest News
Governments Agree: Global Mercury Free Health Care by 2020!
Joshua Karliner, International Team Coordinator, Health Care Without Harm, Last week in Geneva, the... 

Upcoming Events
Energy Series: Ascension Health - Preferred Energy Consulting Firm Engagement
March 27, 2013 - 2:00 PM - 3:00 PM -- Eastern Standard Time
Details

Healthier Hospitals Initiative: Safer Chemical Challenge What’s the Problem with Flame Retardants?
April 03, 2013 - 2:00 PM - 3:00 PM -- Eastern Standard Time
Details

Changemaker Inspiring Change
Seema Wadhwa, Director, Healthier Hospitals Initiative. I recently had the opportunity to... 

Energy Series: Commissioning and Retro-Commissioning for Hospital Energy Reductions and Occupant Health
May 02, 2013 - 2:00 PM - 3:00 PM -- Eastern Standard Time
Details

SAVE THE DATE
Follow us on Twitter for CleanMed 2013
Main Session Recap
November 18, 2013
Details

Greenhealth Sustainability Dashboard
Track and benchmark your most important sustainability metrics in one place.

- Measure
- Track
- Evaluate
- Improve
Sustainability Benchmark Report

The 2012 Environmental Excellence Awards Sustainability Benchmark Report is now available for download by Practice Greenhealth Members.

Members, log in for access to the complete report.

Non-members can view the table of contents and summary of the report.

The 2012 Sustainability Benchmark Report includes activities reported by 171 winners of the Partner for Change (PFC), Partner for Change with Distinction (PSCD) and Environmental Leadership Circle (ELC) awards won in Practice Greenhealth’s 2012 Environmental Excellence Awards Program. This year the data was analyzed by a statistical firm using the SPSS analysis package and is presented by Award type. The data from the 149 hospital winners is reported in the main body of the text, with clinic and long-term care data reported in an appendix.

In addition to reporting on metrics, the report shares sustainability trends and areas of interest where winners have saved millions of dollars.

This one of a kind report provides the information needed to benchmark each hospital’s practices against the collective progress of leading hospitals and can help identify areas to address to increase green activities.

The report is comprehensive, presenting organized information based on the best practices of the healthcare community in one place to serve as a vital reference guide. We hope that facilities will use this report, as well as the Partner for Change Award Application to not only assess their performance, but as a ‘to do’ list along the journey towards sustainability.

Practice Greenhealth would like to thank each of the Partner for Change Award Winners who gathered and submitted the data for the lengthy Award application, without whom this report would not be possible.
Resources

Practice Greenhealth
Green Guide for Health Care
A Sustainable Health System for All Americans
Sustainable Healthcare Network UK
American Hospital Association - Sustainability Roadmap
Plexus Institute - MRSA
JCAHO Quality Standard US Hospitals
Thank you!