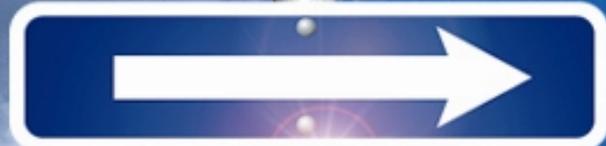


Resources and Tools for Nurses to Go Green



sponsored by the
Connecticut Hospital
Environmental
Roundtable (CHER)

Nursing Practice - the Environment

- Nurses have long appreciated that a healthy environment impacts upon the health of individuals, families, communities and populations
- This understanding is an essential underpinning of nursing practice

Why Nurses As EH Activists?

- have *access* as the only health care practitioners visiting patients in their homes, workplaces, schools and local communities gaining first hand knowledge of the potential environmental hazards present in those settings.
- are present at the risk entry points and see the detrimental end effect of environmental health issues
- nurses are skilled at *history taking* and keeping well-documented written records
- the public *trusts* nurses and almost everyone knows a nurse
- Nurses are taught to listen and how to *communicate* technical information in terms that are understandable
- Nurses “get it”, understand the links between health and the environment and are not afraid to be advocates

What We Know

- Every one of us is carrying a body burden of toxic chemicals
- Children are more susceptible to environmental exposures than adults
- The fetus may be harmed by amounts of chemicals that do not effect adults
- Already sick patients or the elderly may be less able to deal with environmental exposures



**AMERICAN NURSES
ASSOCIATION**

“ANA will advocate for a precautionary approach to environmental health that provides an opportunity for prevention”

- As nurses, who are educated in disease prevention, we can appreciate and should advocate for a precautionary approach when it may prevent injuries and illness.
- Nurses, as trusted and credible sources . . . on environmental health issues, have the potential to lead patients and communities.
- ANA can assist nurses in educating and guiding policy makers, including elected officials, to a new way to see the relationship between life’s choices (both individual and societal) and their impact on health.
- Indoor Air Quality (1995)
- Reduction of Healthcare Production of Toxic Pollutants (1997)
- Precautionary Principle (2003)
- Inappropriate use of antimicrobials in agriculture (2004)
- Creation of Environmental Health Principles (2004)
- Chemical Exposure and Right-To-Know (2006)

ANA's Principles of Environmental Health for Nursing Practice with Implementation Strategies

- Both as a call to action and a guide to practice, this book clearly presents the essential topics suitable to all nurses as health care advocates and providers. Articulating a set of ten environmental health principles, it is a guide for providing nursing care in a way that is environmentally healthy and safe.
- Developed by nurse experts, this book also shows how to apply each of these ten principles to practice through numerous implementation strategies tailored to individuals, workplaces, communities, and facilities. Key organizational resources and activities fill out a compact guide to a health care field whose importance will only continue to grow. 2007/52 pp.

**ISBN-13: 9781558102545 . Pub#: 978155810.
List \$9.95/ ANA Member \$7.95**

Three goals of “healing environments”

Reduce stress of the building’s occupants

“A better building is one that facilitates physical, mental, and social well-being and productive behavior in its occupants”

- Connection to nature (daylight/ views)
- Choice & Control (light and ventilation)
- Social Support (program areas)
- Positive Distractions (views/ program)
- Elimination of Environmental Stressors (noise)



Improve Safety

- Improved Indoor Air Quality
- Supportive Lighting Design/ Reduced Glare

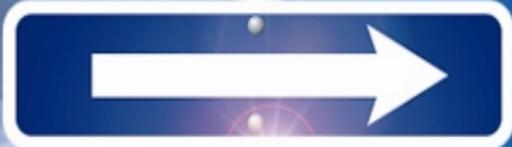
Contribute to Ecological Health

- Healthier Materials
- Reduce Energy and Water Use

<http://www.healthdesign.org>



THE CENTER FOR
HEALTH DESIGN



h2e mission

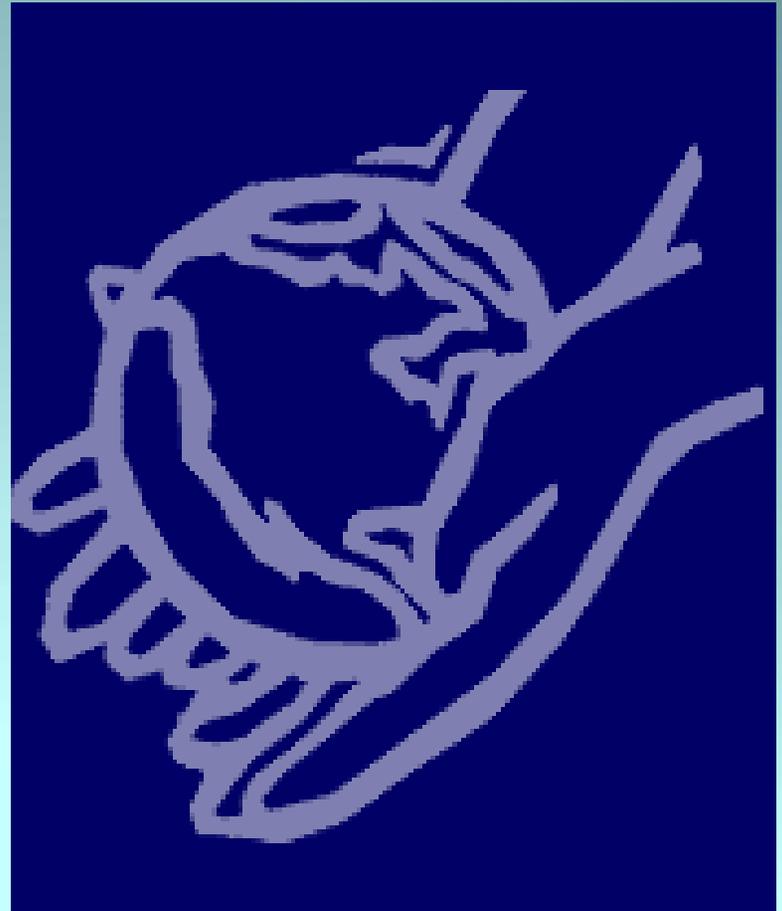
to educate, motivate, and engage healthcare professionals to adopt best environmental practices that increase operational efficiency and support and environmentally sustainable system that improves the health of patients, staff and the community...

Health Care Without Harm & H2E Nursing Liaisons

- HCWH Nurses WorkGroup – Karen Ballard
- Karen A. Ballard, MA, RN
- Nurse Consultant
- 22 West 77th Street, Apt. 36
- New York, NY 10024
- 212-595-9112 (H)
- 518-469-0474 (C)
- kballard@nyc.rr.com
- Bettie D. Kettell RN HEM
- H2E RN Coordinator
- Mid Coast Hospital
- 123 Medical Center Drive
- Brunswick ME 04011
- 207-373-6824

Why a commitment to the environment?

- Safety
- Liability
- Community Relations
- **Cost Savings**
- Indoor Air Quality
- Environmental Impact
- Regulatory Compliance
- Mission Statement
- Healing Environment
- Commitment to Health



Show us the Green!

- Sirota Survey Intelligence, a research firm in Purchase, N.Y., underlined the relationship between companies' environmental practices and employees' attitudes.
- The survey findings, released in September 2007, show 82% of employees who were satisfied with their employers' environmental practices also felt proud to be working for their company. By comparison, just 55 per cent of those dissatisfied with their employers' environmental practices said they were proud of where they worked.
- "If employees take pride in working for their company, then that unleashes unbelievable creative energy and ideas that will help the company be successful," Mr. Willard says.

101 of the nation's
'top hospitals'
are h2e partners



www.h2e-online.org

Hospitals for a Healthy Environment (H2E) - Microsoft Internet Explorer

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Viewpoint Web Search Search Results Bookmarks Pop-ups My Fotomat

JOIN H2E **SUPPORT H2E** **SEARCH H2E**

HOSPITALS for a HEALTHY ENVIRONMENT

ENVIRONMENTAL EXCELLENCE: COMPLIANCE AND BEYOND

[Hazardous Materials](#) | [Regulated Medical Waste](#) | [Waste Reduction](#) | [Facilities Management](#) | [Regulations & Standards](#)

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[Latest news from H2E!](#) H2E has become a not-for-profit organization! Learn how the changes affect you in [H2E's July newsletter](#).

Check out a sample of recent news stories about 2006 H2E award winners:

- [Hospital heals more than lives](#)
- [Local man honored for hospital recycling program](#)
- [Derry hospital gets rid of mercury](#)
- [Holy Redeemer Hospital's successful recycling program](#)
- Read [more](#)

[Health care's environmental leaders receive nation's top honor](#)
4/18 - H2E recognized a groundbreaking 190 hospitals and health care organizations for outstanding environmental achievement at the **H2E Awards Ceremony** at [CleanMed 2006](#). Congratulations to this year's winners! [Learn more](#)

Mark your Calendars:
2007 H2E Awards Ceremony and Pharmaceutical Disposal Workshop
May 14, 15th, Minneapolis, MN
<http://www.minneapolismarriott.com>

The H2E website has been redesigned! Features include:

Please take a moment to fill out the H2E user survey.





Check out "green" alternatives and be part of the Solution!

Join H2E Now!
H2E gives you access to great resources

start AIM 4 Internet... 3 Microso... 4 Windo... 2 Microso... Microsoft P... Internet 12:20 PM

Green Building & H2E

Economic Benefits

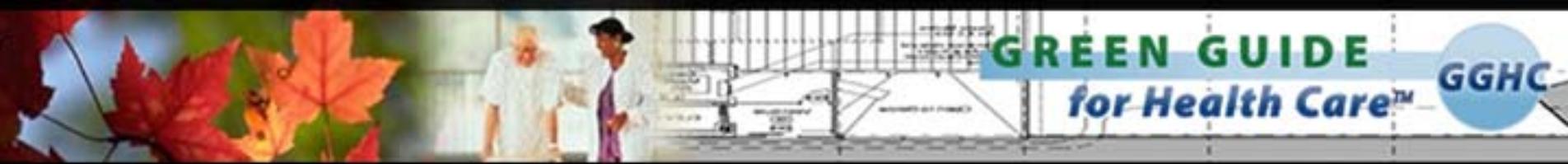
- 
- ✓ Improve productivity
 - ✓ Competitive first costs
 - ✓ Reduce operating costs
 - ✓ Reduce absenteeism and turnover
 - ✓ Optimize life-cycle economic performance



Get Credit! Integrate construction & Operations www.gghc.org

- The Green Guide for Health Care is a voluntary, self-certifying toolkit to steer facilities through greener design, construction and operations.
- Waste volume and toxicity reduction efforts are addressed in both the Construction and Operations Sections.

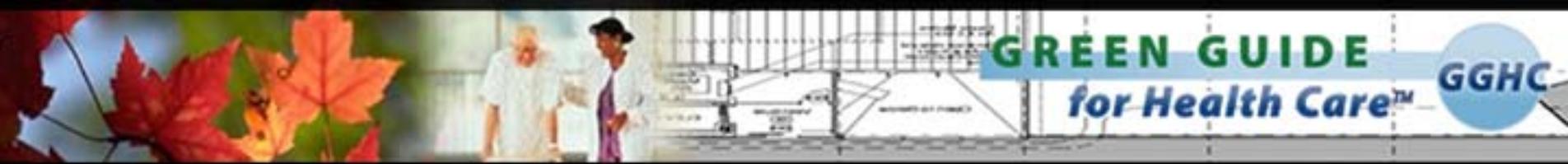
www.gghc.org



Best Practices for Creating High Performance Healing Environments™

1 – Integrated Design	2 - 2
2 – Sustainable Sites	1 - 18
3 – Water Efficiency	1 - 7
4 – Energy & Atmosphere	3 - 19
5 – Materials & Resources	2 - 24
6 – Indoor Environmental Quality	2 - 22
7 – Innovation	0 - 4
	11 - 94

construction manual



Best Practices for Creating High Performance Healing Environments™

1 – Integrated Operation	4 - 8
2 – Energy Conservation	3 - 18
3 – Water Conservation	1 - 8
4 – Chemical Management	1 - 5
5 – Waste Management	1 - 6
6 – Environmental Services	0 - 9
7 – Environmental Purchasing	0 - 11
8 – Innovation	0 - 7
	10 - 72

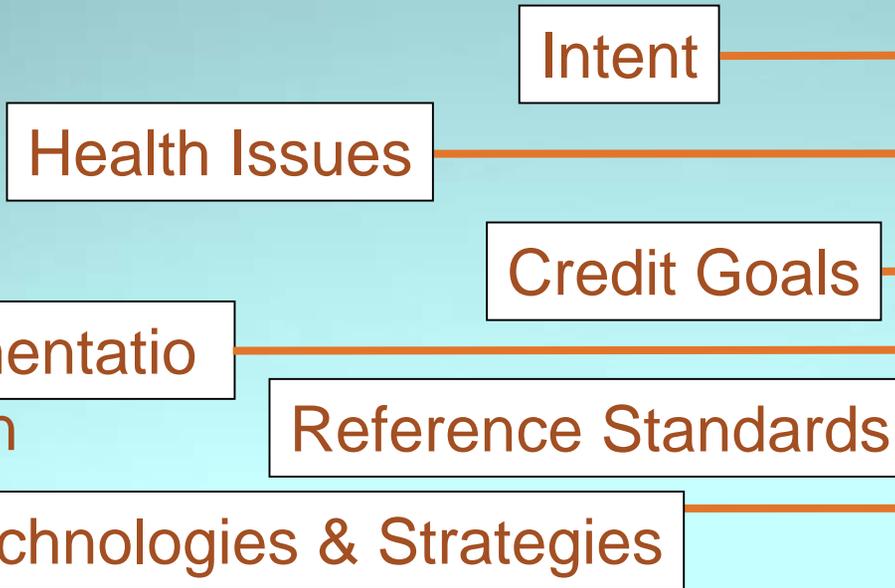
operations manual



Best Practices for Creating High Performance Healing Environments™

GREEN GUIDE
for Health Care™ **GGHC**

GGHC Credit Organization



Construction
Integrated Design

Required **ID Prerequisite 2**
Environmental Health Mission Statement & Program

Intent
Establish environmental health goals and use as a basis for selection and implementation of building design, construction, and operational strategies.

Health Issues
Prevention is a fundamental principle of health care and public health. The health care industry acknowledges that prevention is preferable to treatment of disease after it has occurred. In the face of uncertainty, precautionary action is appropriate to prevent harm. This public health approach makes sense both in the clinical setting and in response to environmental and public health hazards. Similarly, a precautionary and preventive approach is an appropriate basis for decisions regarding health care building design and materials choices and activities.

Requirements
• Prepare an environmental health mission statement and program to complement the facility's functional design program. The environmental health program shall be retained by the facility with the overall design data to assure that future alterations, additions, and program changes are consistent with the intent of the environmental health program.

Documentation
 Prepare a copy of the environmental health mission statement and program.

Define Standards
There is no reference standard for this credit.

Potential Technologies and Strategies
Develop this document as an initial component of an integrated design charrette, to serve as a basis for decisions regarding sustainable design and operations. This environmental health program shall describe project design goals that minimize the potential adverse impacts of the project on the health of occupants, the local community, and the global environment while enhancing the healing environment for patients and the work environment for the staff. This shall be a guiding document for design team selection, design criteria development, and construction documents.

GREEN GUIDE for Health Care™ GGHC Page 3 of 3 Version 2.0 Pilot © 2004

-
- Practical, efficient, sustainable operational improvements
 - Respectful work/healing environment
 - Safety/Occupational Exposure
 - Worker Morale Issues
 - Regulatory Compliance
 - Best Management Approach
 - Employee Engagement/Staff retention
 - Mission in Action
 - Positive Press/Community Relations

Topic Areas

Arm Yourself

- Hospitals for a Healthy Environment – www.h2e.org
- Health Care Without Harm – www.noharm.org
- American Nurses Association -
<http://www.nursingworld.org/MainMenuCategories/OccupationalandEnvironmental.aspx>
- Environmental Health News –
www.EnvironmentalHealthNews.org
- International Council of Nurses - www.icn.ch
- **Sustainable Hospitals** – www.sustainablehospitals.org
- **Green Guide for Health Care** – www.gghc.org
- The Luminary Project: www.theluminaryproject.org

H2E Partnering Structure

- 1) Leadership Support
- 2) Team Development
- 3) Gather Information
- 4) Data collection and benchmarking
- 5) Goal Setting
- 6) Develop & Prepare the plan
- 7) Educate
- 8) Track and Report
- 9) Recognition
- 10) Repeat

Intro to H2E held monthly

Data Collection

- Waste/recycling haulage fees
- Risk Management – Lost work days, employee accidents
- Regulatory Infractions –
- Worker “morale” issues
- Air Quality Reports/complaints
- Respect Issues (sanitary break space, daylighting, places of respite, cleanliness)
- Board of Directors/Funding Opportunities
- Patient Satisfaction Surveys
- Facility Audit – What are common suggestions, complaints, concerns...
- Learn from front-line workers – get out of the board room and into shops, waste areas, sterilization, disinfection, O.R., food Services, Radiology, sub basement, break rooms, endoscopy, outpatient treatment care areas – **listen!**

Goal Setting

- Project benefits to success – **\$avings?** safety, positive press, mission demonstration
- Identify one or two goals and fold into JCAHO process
- Quality Improvement Initiatives

Health Care Environmental Success is a TEAM Effort

- Leadership on patient care units
- Supply Chain
- Environment of Care Committee
- Quality Improvement
- Department Head
- Integrated Design Team
- Infection Control
- Operating Room Strategies

NURSING

Tracking and Reporting

- Continuous Quality Improvement Process
- **Joint Commission Environment of Care**
- Reporting Structure
 - Environment of Care Committee
 - Green Team
 - Board of Directors
 - Community Liaison
 - Quality Improvement
- Communication Plan
 - PR Campaign
 - Community Events
 - Press Release/coverage
 - Marketing Strategy

Sample Programs

- Energy Efficiency
- Environmentally Preferable Purchasing
- Green Construction, Renovation & Design
- HIPAA/Confidential Paper mgmt
- Integrated Pest Management
- Red bag waste minimization
- Recycling programs
- Single-Use Device Reprocessing
- Universal waste recycling
- Water Conservation



Toxicity issues

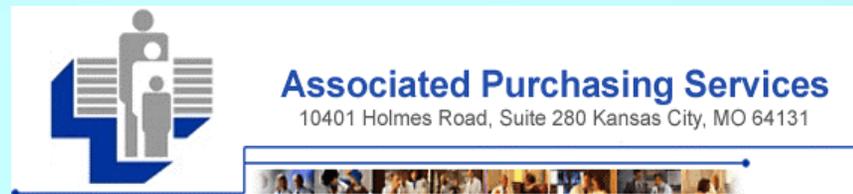
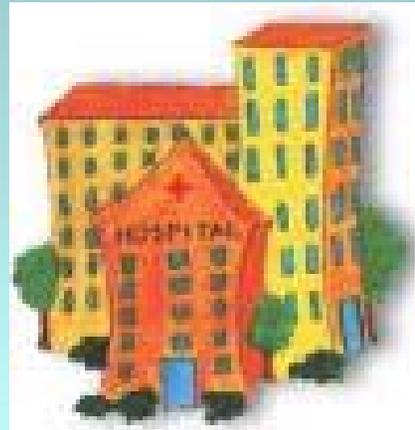
- Mercury
- Ethylene Oxide, Glutaraldehyde
- Cleaning Chemicals
- Pesticides
- Hazardous Pharmaceuticals
- Laboratory Chemicals, solvents
- Bromated fire retardants
- Exhaust from vehicles
- DEHP in medical devices
- E-Waste
- Materials and finishes

Support Services Worker Respect Issues

- Employee Education
- Employee Recognition
- Respectful Break Environment
- Safe Work Environment
- Communication
- Listening
- Proper Protective Equipment



Group Purchasing Organizations and Environmentally Preferable Purchasing –



H2E Champion Group Purchasing Organizations

The H2E Listserv has over 1,800 participants from the health care sector, technical assistance providers, clinicians and vendors

From: Anderson, Jeannette **To:** H2E -- Hospitals for a Healthy Environment listserv
Subject: [h2e] disposable thermometers for VRE & isolation patients? **Cc:**

H2E -- Hospitals for A Healthy Environment listserv
(h2e@h2e.talklist.com)
Hi,

I am looking for information on an economical, accurate, disposable thermometer that could be used in place of mercury devices for VRE & isolation patients.....anyone have this info??

Thanks!
Jeannette

From: Meister, Martha **To:** h2e
Subject: [h2e] Solid Waste Compactors **Cc:**

H2E -- Hospitals for A Healthy Environment Listserv
(h2e@email.sparklist.com)

I have 2 questions I would like input on.

- 1) How many tons, of what is considered "Dry Weight," have others consistently pulled out of their 30 yd compactors.
- 2) If you could purchase any compactor out on the market, which one would it be? This compactor would have to be hauled from a "tight" loading area.

Thanks for any input I can receive on both of the above questions
Martha Meister

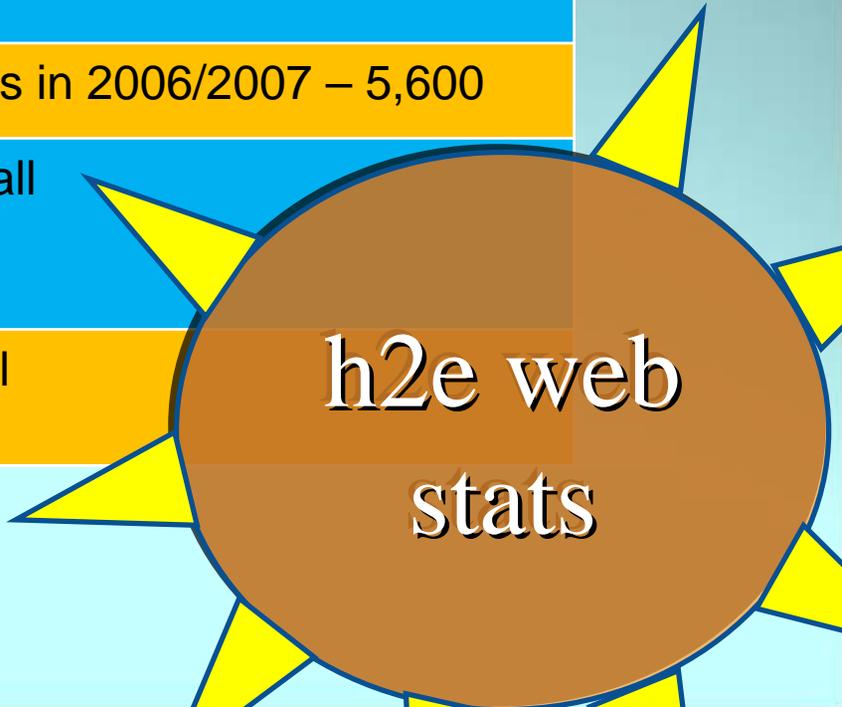
From: Charles A. Kulp **To:** h2e
Subject: [h2e] Reuseable Sharps Systems **Cc:**

H2E -- Hospitals for A Healthy Environment listserv
(h2e@email.sparklist.com)
I'm looking for feedback on Reuseable Sharps Systems. Looking for possible vendor choices.
Specifically, the Danis's system from Australia.
Pros, Cons, Satisfaction, Dissatisfaction.
Price, Performance, Value.
Etc.
Other Systems?

1. Announcements Only
2. Information Exchange

<http://www.h2e-online.org/listserv/index.htm>

Web Site Area	# of hits/interest
Home Page	87,787 hits in September, 2007
Products and Services Directory	34,956 hits in September, 2007
Teleconference Pages	25,735 hits in September, 2007
Announcements Only List Serve – 4 posts per month	2,401 registrants
Stat Green Newsletter	3,300 visits
Information exchange list serve – 149 posts per month (membership driven and moderated by H2E.)	1,716 registrants
Pharmaceutical Blueprint Report	14,088 hits in 2006/2007 – 5,600 visits
Average Number of Participants in GGHC/H2E Green Building Teleconference (1x month)	115 per call
Average Number of Participants in H2E Operational Teleconference (1x month)	71 per call



**h2e web
stats**

h2e teleconference series

GGHC/H2E Green Bldg. 1st Friday of month/90 min		H2E Operational Call 2nd Friday of month/90 min		Regular Calls Monthly intro/bimonthly MMMMF - free
Intro to GGHC	95	Pharm Waste	107	MMMMF @ 20/call
Energy & H2O	111	RMW	60	Intro @ 15-25/call
Connect to Nature	95	Food Volume	87	
Furnishings	137	C&D	114	
Toxic Avoidance	77	OR Reduction	125	

Top 5 attended calls in 2007

H2E Environmental Excellence Awards and Pharmaceutical Waste Workshop Stats –May 14-15, 2007, Minneapolis, MN



- More than 200 in attendance
- 500 Printed Copies of Pharmaceutical Blueprint paid by Kendall given out or sent after event.
- Clancy, Mercury sniffing dog
- Over 120 awards given
- Keynote by Pete Myers
- Sessions on: DEHP, Data Collection, Pharmaceutical Waste, case studies on pharm waste management.



Entries into H2E's First Annual Waste Flower Art Contest



CT H2E Partners

Awards



Bridgeport Hospital Connecticut
Children's Medical Center ★
Connecticut Valley Hospital
Day Kimball Hospital
Hartford Hospital ★
Hospital of Central Connecticut
@ Bradley
Hospital of Central Connecticut @
New Britain ★
Hospital of Saint Raphael
Johnson Memorial Hospital
Lawrence & Memorial Hospital
Milford Hospital

Saint Francis Hospital and
Medical Center ★
St. Vincents Medical Center
University of Connecticut
Health Center
VA Connecticut Health Care
VA Connecticut Health Care -
VAMC West Haven
Whitney Center
William W. Backus Hospital
Yale Medical Group
Yale New Haven Hospital

Action Items

- Sign on as a Partner
- Environmental Commitment on Nursing/Patient Care Svcs. Agenda
- Designated coordinator for facility
- Participate in waste management, supply chain, linen, construction/design team, food and more.
- Participation with H2E
- Set individual goals for facility
- Track Performance
- Awards and Recognition

ENVIRONMENTAL HEALTH FOR NURSING PRACTICE

- 1. Knowledge of environmental health concepts is essential to nursing practice.**
- 2. The Precautionary Principle guides nurses in their practice to use products and practices that do not harm human health or the environment and to take preventive action in the face of uncertainty.**
- 3. Nurses have a right to work in an environment that is safe and healthy.**
- 4. Healthy environments are sustained through multidisciplinary collaboration.**

for Nursing Practice with Implementation Strategies

- 5. Choices of materials, products, technology, and practices in the environment that impact nursing practice are based on the best evidence available.**
- 6. Approaches to promoting a healthy environment respect the diverse values, beliefs, cultures, and circumstances of patients and their families.**
- 7. Nurses participate in assessing the quality of the environment in which they practice and live.**

ANA's Principles of Environmental Health for Nursing Practice with Implementation Strategies

- 8. Nurses, other health care workers, patients, and communities have the right to know relevant and timely information about the potentially harmful products, chemicals, pollutants and hazards to which they are exposed.**
- 9. Nurses participate in research of best practices that promote a safe and healthy environment.**
- 10. Nurses must be supported in advocating for and implementing environmental health principles in nursing practice.**

<http://www.h2e-online.org/contact.htm>

Clip N' Save!

Toll Free Hotline:

800-727-4179

E-mail: h2e@h2e-online.org

<http://www.h2e-online.org>

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h2e staff

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Bus.
Alliance

Lin Hill,
Awards
Coordinator

Julie
Taylor!

Janet
Brown

Cecilia
DeLoach

Laura
Brannen

Bill Craig
Asst Pr
NH Col

I'm Sarah,
but I now
work for
EPEAT!

