



GLOBAL GREEN and
HEALTHY HOSPITALS

a project of the campaign for
environmentally responsible health care
WWW.NOHARM.ORG



The Art of Green Mind-Shift: Look Up for Change “Acting Together for Environment Health”

HPH and Environment Symposium

March 8, 2015

MERCI FERRER

Health Care Without Harm Asia



What is Health Care Without Harm?

HCWH's work sits at the intersection of two core principles—

--the right to health care and

--the right to a healthy environment

- We take the Hippocratic Oath: “First Do No Harm,” as our point of departure.
- We address the paradox inherent in health care systems that pollute and therefore undermine human health.
- We transcend that paradox by advocating for a healthier, more ecologically sustainable health care sector and positive alternatives to polluting technologies, products and practices.



Who Is Health Care Without Harm?

“Toward a Health Care Sector that Promotes Healthy Environments for All”

Health Care Without Harm is an international coalition of 443 organizations in 52 countries working to transform the health care sector so it is no longer a source of harm to people and the environment.

We work with health professionals, hospitals, health care systems, ministries of health and environment, and international organizations on issues ranging from chemical substitution, health care waste to climate change.

Offices in: USA, Europe, Argentina, and Philippines. Partners in South Africa, Tanzania, Brazil, Mexico, Nepal, Indonesia, and India. Members around the world.

Partners and Relationships



GLOBAL HEALTHCARE WASTE PROJECT



Improving lives worldwide



30 años, construyendo el conocimiento de la toxicología para una mejor calidad de vida

1979
2009



Envisioning a Green and Healthy Health Sector

- Making the link between the environment and health
- Evolving the Hippocratic Oath
- Leveraging the purchasing power of health care
- Activating health messengers—moral leadership for broader societal transformation
- Implementing a disease prevention agenda

The Health Sector is Going Green- Global Green & Healthy Hospitals (GGHH)

Many hospitals and health systems around the world are taking steps to reduce their environmental footprint, contribute to public health and save money all at the same time.



Global Green and Healthy Hospitals | Agenda Goals



Leadership

Prioritize environmental health as a strategic imperative



Chemicals

Substitute harmful chemicals with safer alternatives



Waste

Reduce, treat and safely dispose of healthcare waste



Energy

Implement energy efficiency and clean, renewable energy generation.



Water

Reduce hospital water consumption and supply potable water



Transportation

Improve transportation strategies for patients and staff



Food

Purchase and serve sustainably grown, healthy food



Pharmaceuticals

Prescribe appropriately, safely manage and properly dispose of pharmaceuticals



Buildings

Support green and healthy hospital design and construction



Purchasing

Buy safer and more sustainable products and materials

Asia

- Bahrain, Bhutan, China, India, Indonesia, Nepal, Philippines, Singapore, Saudi Arabia, South Korea, Thailand, Taiwan
- Membership breakdown - 28 Hospitals, 4 Health Systems, 6 Organizations representing the interest of 2209 Hospitals and 3099 Health Centers

Sambahvna Trust Clinic, Bhopal, India

- Green Building: solar power
- Food – Provide sustainably grown local food for staff and patients
- Water – Rainwater harvesting, water conservation





GREEN and CLEAN Hospitals: A Strategy for Reducing Global Warming

โรงพยาบาลปราสาท อ.ปราสาท จ.สุรินทร์ GREEN & CLEAN HOSPITAL

E:Energy คือ ลดการใช้พลังงาน โดยไม่ลดคุณภาพและความปลอดภัยของผู้รับบริการ ได้แก่

- มาตรการประหยัดพลังงานไฟฟ้า
- มาตรการใช้ตู้เย็น
- มาตรการใช้เครื่องปรับอากาศ
- มาตรการใช้เครื่องคอมพิวเตอร์ ปิดหน้าจอระหว่างพักเที่ยง ถอดปลั๊กก่อนกลับบ้าน และทำคัตเอาท์(Cutout)ให้หน่วยงาน
- สำนักงานที่มีเครื่องคอมพิวเตอร์หลายเครื่อง เพื่อความสะดวกไม่ต้องถอดปลั๊กหลาย
- มาตรการใช้เครื่องทำน้ำอุ่น
- มาตรการใช้กระติกน้ำร้อน รวมทั้งกิจกรรมเจ้าหน้าที่ร่วมกัน ยกเลิกกระติกน้ำร้อนตามหน่วยงานต่างๆ ดันมาใช้กระติกน้ำร้อน 1 ใบ ต่อ 1 อาหาร
- มาตรการใช้หลอดไฟ
- มาตรการใช้ตู้ปรุกรรมไฟฟ้า เช่น สวิทช์ ไฟกระตุก บัดมาสต์ ให้ประหยัดพลังงาน
- มาตรการใช้ลิฟต์
- ให้รางวัลแก่เจ้าหน้าที่ที่มีหลักการไม่เสียดำไฟว่าลดต้นทุนได้อย่างน้อย 3 เดือน

E:Environment คือ การจัดการสิ่งแวดล้อมที่ช่วยและเชื่อมต่อสุขภาพ

ปรับปรุงภูมิทัศน์ให้สวยงาม สะอาด เป็นสถานที่พักผ่อน ปี 2548-ปัจจุบัน พัฒนาศูนย์ที่ทำงาน นำอยู่ นำทำงาน (Healthy Work Place) ความสำเร็จระดับทองปี 2549-2553 (5 ปีติดต่อกัน) ผ่านมาตรฐาน 5 ระดับทอง ปี 2553 โครงการเจ้าหน้าที่ปลูกต้นไม้ในพื้นที่ 37 ไร่ของโรงพยาบาล เรียกว่า โครงการด้วยความร่วมมือระหว่าง “โรงพยาบาลปราสาทและหน่วยจัดการต้นไม้มติเต็กรรณก่อนกลับบ้าน เรียกว่า “ต้นไม้ต้นแรกของท

:Nutrition คือ การจัดการสิ่งแวดล้อมที่ช่วยและเชื่อมต่อสุขภาพ

Ministry of Health, Bhutan



Saint Paul de Chartres Health Care Ministry, Philippines

16-hospitals owned and administered
all over the country

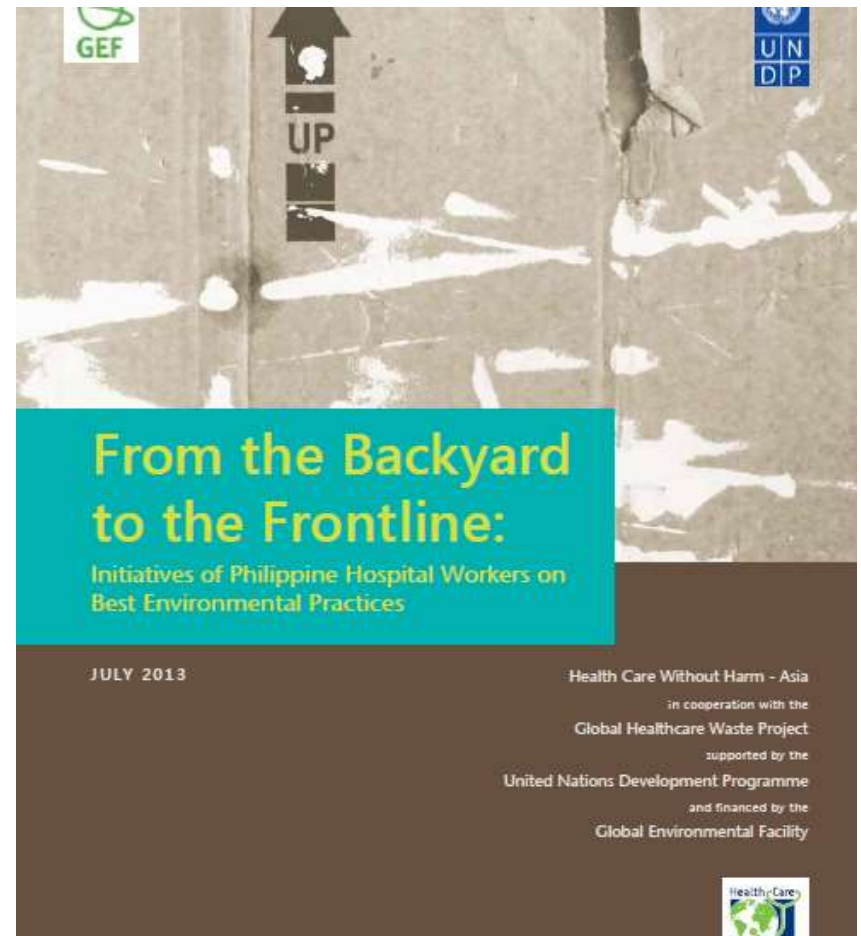
- Mercury Substitution
- Autoclave waste
- Vermiculture
- Food cultivation
- Trash to works of art



Philippine Hospital Good Practices

- Waste Management
- Chemicals Management/Mercury Phase-out
- Waste Water Treatment
- Safer Alternatives to Cleaning
- Hospital Biodigester

<http://web.undp.org/gef/document/From%20the%20Backyard%20to%20the%20Frontline.pdf>



Green Hospitals Initiative, Mongolia



Improving Health Care
Waste Management



Mercury Free Health Care
Initiative

National Cheng Kung University Hospital, Taiwan

Energy

- ✓ Lighting System Renovation
- ✓ Heat Pump Hot Water System
- ✓ Air Conditioning Renovation

Total annual savings:

- 5259 tons of CO₂
- \$625,000



Severance Hospital, Korea

Energy

- Expense reduction in 2011: 1,901,686,000 won (\$1,730,000)
- GHG emission reduction: 5,316 tons of CO₂



Bir Hospital, Nepal



HCWH/GGHH collaboration with Health Care Foundation Nepal

Bir Hospital, Kathmandu, Nepal



New technologies- biodigestion



Bir Hospital
2011



Recycling garden built on top of biodigester at Bir-the house in the background is for safe

| GGHH TOOLS AND ACTIVITIES

- Public events.
- Case Studies
- A suite of PR and media tools for members
- Technical tools (coming soon)
 - *Self- assessment check list
 - *Guidance documents for each goal
- Worldwide webinars with experts on goal area.
- An Awards Program that recognizes world leaders in sustainability in healthcare.
- GGHH Connect.



 GLOBAL
GREEN and
HEALTHY
HOSPITALS
WWW.GREENHOSPITALS.NET

 Health Care
Without Harm
a project of
WWW.NOHARM.ORG



GGHH CONNECT- Mission and Purpose

*To provide a borderless environment for GGHH members to **meet, teach and learn from each other** to assist and help accelerate the achievement of their **sustainability goals***



CREATED



POWERED



SUPPORTED



Nick Thorp

- My Homepage
- Contacts Center
- Messages
- My Documents
- Training and FAQs
- Collaboration Settings

Global Green and Healthy Hospitals

GGHH is a worldwide community of hospitals, healthcare systems and health organizations dedicated to reducing the ecological footprint of healthcare operations, while promoting environmental and public health in their communities.

[Visit the GGHH Website](#)



The GGHH Connect Help Desk is full of tutorials, guides, and people to show you how to use and take full advantage of GGHH Connect.

Visit the Help Desk today!

Activities

- All
- Connections
- Following
- My Communities
- Me

GGHH Admin in Energy About an hour ago.
Updated a *blog entry*.

Costa Rican Hospital Seeks to Become First Carbon Neutral Medical Center

GGHH Goal Communities

- Leadership
- Chemicals
- Waste
- Energy
- Water
- Transportation

GGHH CONNECT- Communities

Communities dedicated to each of the 10 GGHH Agenda goals with:

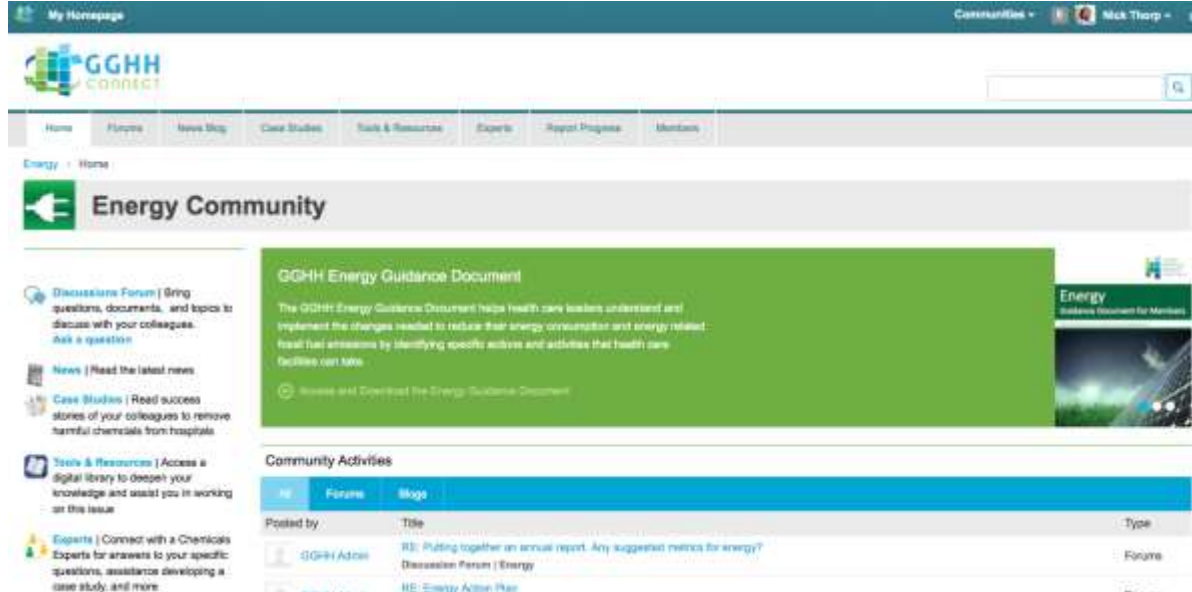
-Discussion Forums

-Global Teams of Experts

-Tools and Resources

-Case Studies

-Multi-lingual capability



The screenshot displays the GGHH Connect website interface. At the top, there is a navigation bar with the GGHH logo and a search bar. Below the navigation bar, the main content area is titled "Energy Community". On the left side, there are several menu items: "Discussion Forum" (with a sub-description and a link to "Ask a question"), "News" (with a sub-description), "Case Studies" (with a sub-description), "Tools & Resources" (with a sub-description), and "Experts" (with a sub-description). The main content area features a large green banner for the "GGHH Energy Guidance Document" with a sub-description and a link to "Review and Download the Energy Guidance Document". Below the banner, there is a "Community Activities" section with a table listing activities.

Posted by	Title	Type
GGHH Admin	RE: Putting together an annual report. Any suggestions/reviews for energy?	Discussion Forum Energy
	RE: Energy Action Plan	

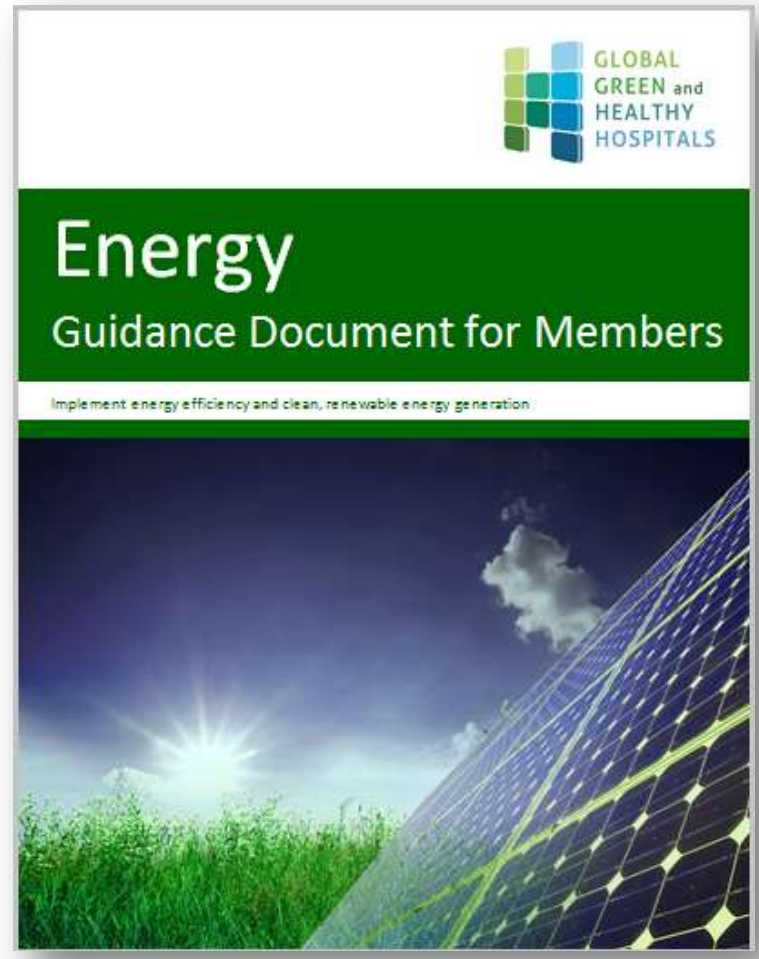
| GGHH Connect- New Tools and Resources

Guidance Documents

- Overview** of each goal
- Suggested **action items and projects**
- Strategies and tips** for implementation
- Additional resources for **learning/ research**

Self-Assessment Checklists

- Baseline picture** for new members
- Suggested **project focus areas**
- Track progress** year after year



GGHH Connect- Experiences

Gathering feedback and experiences to engage leadership and guide project implementation

How do you dispose of lead aprons used in x-rays?



GGHH Connect- Pilot Experiences

Creating community: health care sustainability professionals



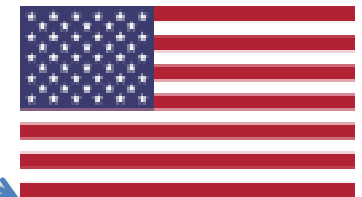
How do you communicate with staff?



What type of newsletters do you send out? Examples?



How do you put together annual sustainability reports? Examples?



GGHH Exchange





2020
HEALTHCARE
Climate Challenge





Timetable

April. Challenge goes public. Pledge available for signing.

May. Participants begin to enter data on GGHH Connect. Establish 2020 Targets.

April-December. More participants join.

December. Event during the Paris Climate Conference announcing health care commitments and recognizing leading hospitals and health systems.

2016-2020. Hospitals and health care systems around the world become climate champions!





Mobilize the health sector to advocate for cleaner, healthier, and more climate-friendly energy alternatives





- Mobilize the health sector to advocate for cleaner, healthier, and more climate-friendly energy alternatives
- Raise critical awareness, promote dialogue, and build consensus among health professionals and healthcare organizations around the nexus of climate change, energy, and human health

Healthy Energy Initiative Philippines

Education

Network-
building

Collaborative
research

Advocacy

Policy
Dialogue

Action

Coal power plants in Southeast Asia



Premature deaths from PM2.5 in 2010 (Global Burden of Disease)

China	1,230,000
India	630,000
EU	240,000
Southeast Asia	160,000
United States	100,000
Russia	95,000
Japan	64,000
Indonesia	64,000
Turkey	28,000
South Korea	23,000
Global	3,200,000

Indonesia	64,000
Vietnam	31,000
Thailand	24,000
Myanmar	20,000
Philippines	8,200
Malaysia	6,000



'PH can rely on renewable energy as stable power source'

Rappler.com

Published 2:21 PM, Sep
07, 2014

Updated 7:27 PM, Feb 12,
2015

Petilla says the Philippines can rely on renewable energy in the face of fluctuating global oil prices and threats to energy security



HARVESTING SUNLIGHT. This is how the San Carlos Solar Farm will look like when its first phase is completed in March 2014. Photo from San Carlos Solar Energy Incorporated



CLIMATE SOLUTIONS
OR
HEALTH SOLUTIONS

CLIMATE CHANGE
THE BIGGEST GLOBAL
HEALTH THREAT OF THE
21ST CENTURY

PROTECT THE
PLANET
PROMOTE HUMAN
HEALTH

CLIMATE CHANGE
OR
HEALTH EMERGENCY

CLIMATE JUSTICE
OR
HEALTH JUSTICE

WE NEED A
C.H.E.A.P.
SOLUTION!
CLIMATE, HEALTH, AND
EQUITY IN ALL POLICIES!

HEALTHY
PLANET
HEALTHY
PEOPLE

CUT OUR COAL
ADDICTION
HEALTHY ENERGY
FOR STABLE CLIMATE

CLIMATE
CHANGE
IS A
PUBLIC HEALTH
ISSUE

CLIMATE
TREATY
IS A
HEALTH
TREATY

FERNANDO CALDERON
CALDERON HALL
M.M.T.

U.S. COLLEGE OF MEDICINE



CLIMATE JUSTICE IS HEALTH JUSTICE

HEALTHY PEOPLE HEALTHY PLANET

CLIMATE CHANGE IS THE BIGGEST GLOBAL HEALTH THREAT OF THE 21ST CENTURY

CLIMATE CHANGE IS A PUBLIC HEALTH ISSUE

CLIMATE CHANGE IS A HEALTH EMERGENCY

CUT OUR COAL ADDICTION HEALTHY ENERGY FOR STABLE CLIMATE

PROTECT THE PLANET PROMOTE HUMAN HEALTH

CLIMATE CHANGE IS A HEALTH EMERGENCY

CLIMATE CHANGE IS A PUBLIC HEALTH ISSUE



Merci Ferrer

Health Care Without Harm Asia



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