



GLOBAL  
GREEN and  
HEALTHY  
HOSPITALS

[WWW.GREENHOSPITALS.NET](http://WWW.GREENHOSPITALS.NET)

a project of  
[WWW.NOHARM.ORG](http://WWW.NOHARM.ORG)



**Dr Adela Maghear & Aidan Long**  
**HCWH Europe**



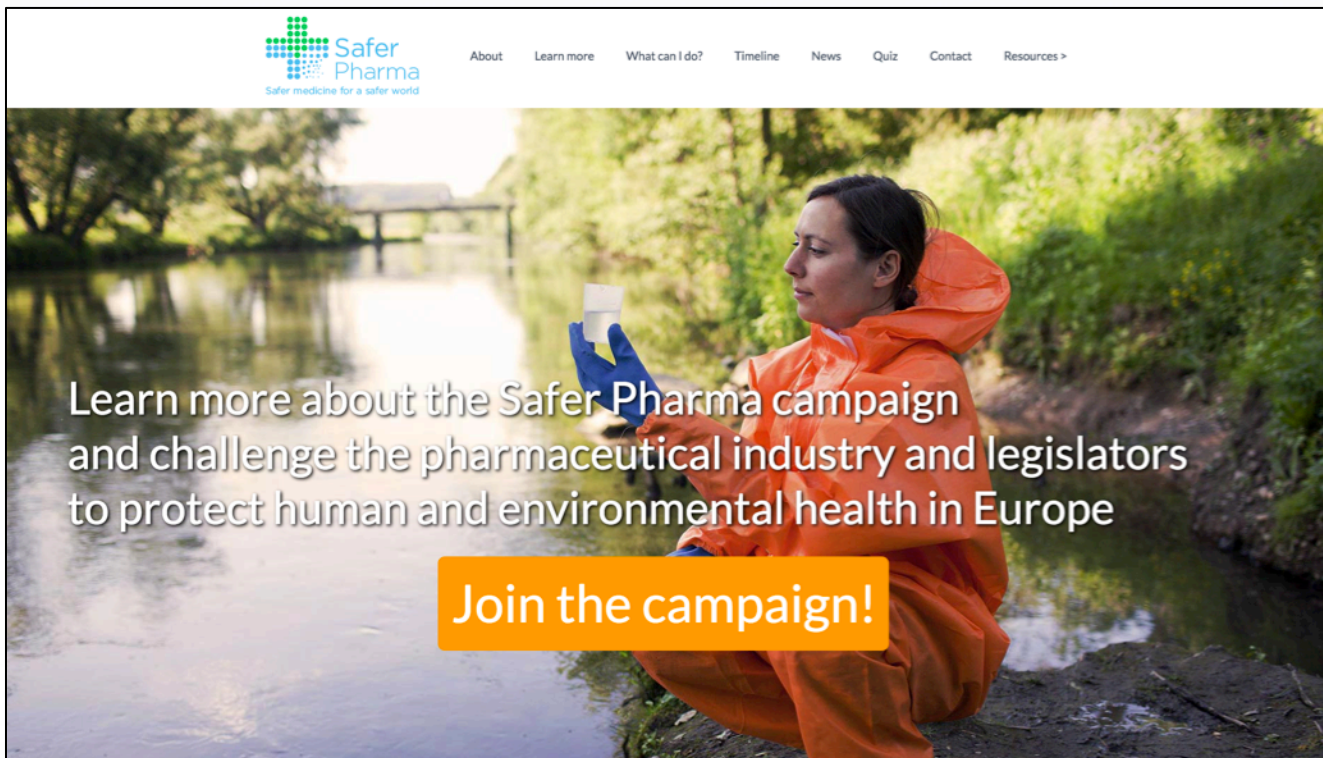
Highlands and Islands Enterprise  
Iomairt na Gàidhealtachd 's nan Eilean

# HCWH EUROPE'S AIM FOR PHARMACEUTICALS



**Support the safe production, management and disposal of pharmaceuticals, reducing their environmental and health impact throughout the entire life cycle and fostering innovations for green products.**

# RIGHT TO ENVIRONMENTAL HEALTH AND ACCESS TO HEALTH CARE

The image is a screenshot of a website banner for the 'Safer Pharma' campaign. At the top left is the logo, which consists of a green cross made of dots, followed by the text 'Safer Pharma' and the tagline 'Safer medicine for a safer world'. To the right of the logo is a navigation menu with the following items: 'About', 'Learn more', 'What can I do?', 'Timeline', 'News', 'Quiz', 'Contact', and 'Resources >'. The main part of the banner features a photograph of a woman in an orange protective suit and blue gloves, kneeling by a river and holding a white pill. The background shows a river with trees and a bridge in the distance. Overlaid on the photograph is the text: 'Learn more about the Safer Pharma campaign and challenge the pharmaceutical industry and legislators to protect human and environmental health in Europe'. At the bottom center of the banner is an orange button with the text 'Join the campaign!' in white.

**Safer Pharma**  
Safer medicine for a safer world

About Learn more What can I do? Timeline News Quiz Contact Resources >

Learn more about the Safer Pharma campaign and challenge the pharmaceutical industry and legislators to protect human and environmental health in Europe

**Join the campaign!**

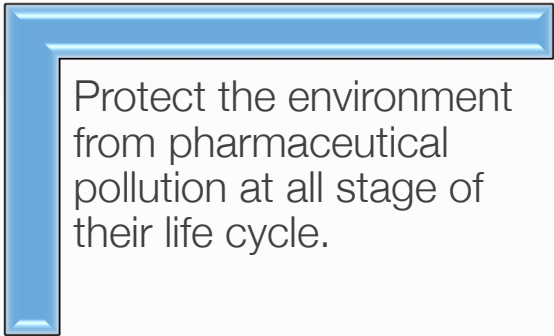
# SAFER PHARMA CAMPAIGN



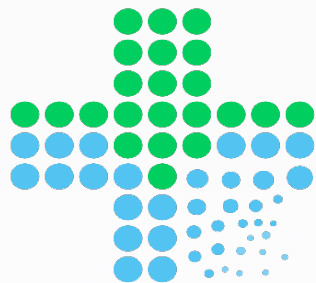
**The aim of this campaign:**



Achieve new EU legislation that starts curbing pharmaceutical pollution, an EU law that will take action, which in turn will lead to a measurable reduction of pharmaceuticals in the environment over time.



Protect the environment from pharmaceutical pollution at all stage of their life cycle.



# Safer Pharma

Safer medicine for a safer world

Challenge the pharmaceutical industry to clean up their production.

Raise awareness amongst healthcare professionals about the impact of pharmaceuticals in the environment, encouraging rational prescription practices.

Help citizens to understand the impact of pharmaceuticals in the environment and how to safely dispose of unused medicine.

Work towards transnational agreement to ensure the minimisation of pharmaceuticals in the environment.

# SAFER PHARMA VIDEO

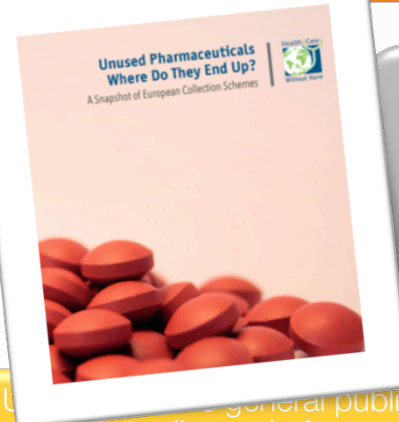


[www.saferpharma.org](http://www.saferpharma.org)

# THE STUDY

HCWH – 2013 snapshot report  
*Unused Pharmaceuticals – Where  
Do They End Up?*

The countries were selected taking into consideration the diverse types of collection systems for unused pharmaceuticals implemented at national, regional or local level.



Survey carried out in the capital cities of six European countries:  
Belgium  
Hungary  
Italy  
Lithuania  
Portugal  
the United Kingdom.

Used the general public's approach to disposal of unwanted medicines and to help assess the efficiency of existing pharmaceutical collection schemes in these countries.  
600 respondents, 100 in each city.

# HOW THE COLLECTION SYSTEM WORKS IN THE UNITED KINGDOM

Pharmacies in the United Kingdom are obliged to take back and sort unwanted and/or unused medicines brought by patients and return these to the National Health Services (2013).

The system only covers household waste. Medicines from care homes cannot be accepted by pharmacies since 2005, unless pharmacies have a Waste Management Licence.

On certain occasions, besides the collections in pharmacies, local collection events are also organised by the NHS.

The main aims of the system are to provide an easy method for disposal of unwanted human medicines, while reducing environmental risk and accidental poisoning.

Local authorities, without the participation of the pharmaceutical industry, finance the disposal system and promote awareness campaigns.

All local Primary Care Trusts in England and Local Health Boards in Wales have a scheme in place to collect and dispose of unused medicines through pharmacies.



# LIMITATIONS OF THE EU REGULATORY FRAMEWORKS

## Collection systems for unused medicinal products

- Directive 2004/27/EC (relating to medicinal products for human use) introduces an obligation for Member States to implement appropriate collection schemes for unused pharmaceutical products.

## Collection systems for unused medicinal products

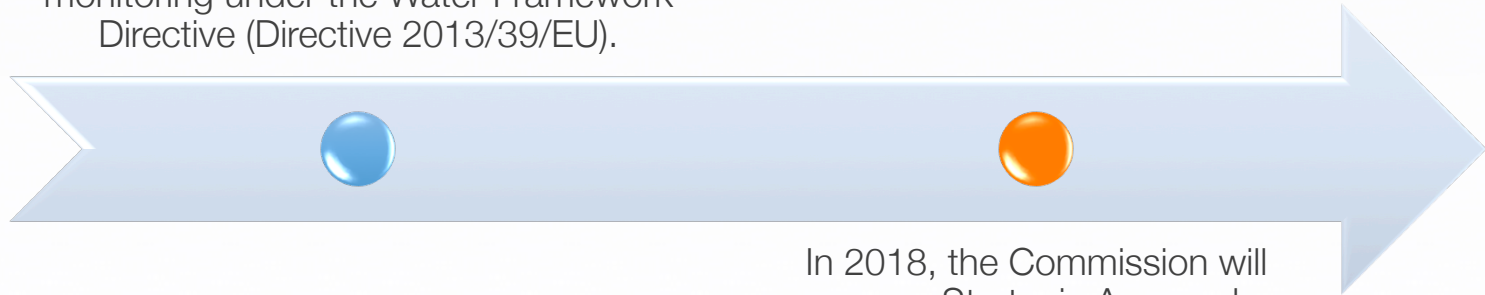
- It does not provide any guidelines on implementation of schemes and a number of studies have pointed to significant differences between Member States.

## Collection systems for unused medicinal products

- Detailed information regarding the implementation and efficiency of collection schemes for unused pharmaceuticals throughout Europe is highly scattered and deficient, preventing comparisons between countries and type of scheme implemented.
- It is not clear that all EU countries have implemented their obligations.


# EUROPEAN STRATEGIC APPROACH DELAYED

Diclofenac and 2 synthetic oestrogens  
are included on the Watch List of  
substances subject to EU-wide  
monitoring under the Water Framework  
Directive (Directive 2013/39/EU).




In 2018, the Commission will  
propose a Strategic Approach on  
pollution by pharmaceuticals.


# DATABASE ON BEST PRACTICES TO ADDRESS PHARMACEUTICAL POLLUTION AT NATIONAL LEVEL



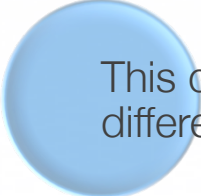
A short state of the art evaluation on past/running approaches to reduce pharmaceuticals in the environment.



The database will be addressed to different stakeholder groups: pharmaceutical industry, policy makers, national authorities, health professionals.

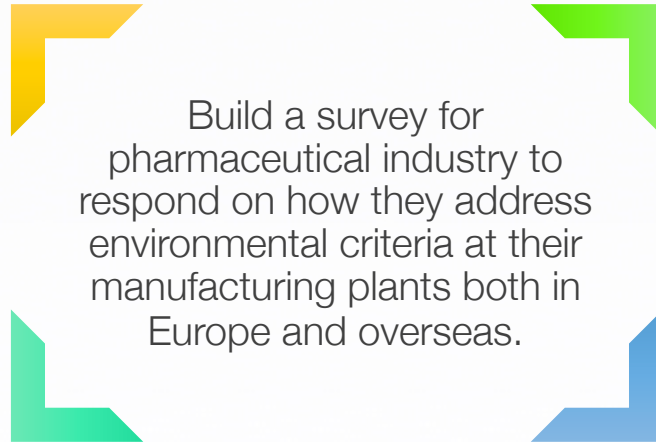


The aim is to give the best practice examples on a national scale for distinct measures/actions taken that the past/running projects have described as being successful or, by contrary, have been proven ineffective.



This database will enable good networking among different stakeholders.

# SURVEY ON ENVIRONMENTAL CRITERIA APPLIED AT MANUFACTURING PLANTS



Build a survey for pharmaceutical industry to respond on how they address environmental criteria at their manufacturing plants both in Europe and overseas.



GLOBAL  
GREEN and  
HEALTHY  
HOSPITALS

# GLOBAL GREEN AND HEALTHY HOSPITALS (GGHH)

- An international network of:
  - Hospitals
  - Healthcare facilities
  - Health systems
  - Health organisations
- Members are dedicated to reducing their environmental footprint and promoting public and environmental health



# GGHH MEMBERS AROUND THE WORLD

GGHH has **805** members from **47 countries** representing the interests of **25,600 hospitals and health centres**

## US & Canada

HCWH's implementation arm, Practice Greenhealth has 1,400 Hospital members in the U.S. In Canada, GGHH members include 5 Health Systems and 2 Organisations representing the interest of 878 Hospitals and Health Centres.

## Latin America

447 hospitals and health centres, 34 health systems and 14 organisations, representing the interest of 1,592 hospitals and health centres.

## Global

1 health system and 3 organizations representing the interest of 1,040 hospitals

## Europe

22 hospitals and health centres, 19 health systems and 9 organisations, representing the interest of 6,602 hospitals and health centres.

## Asia

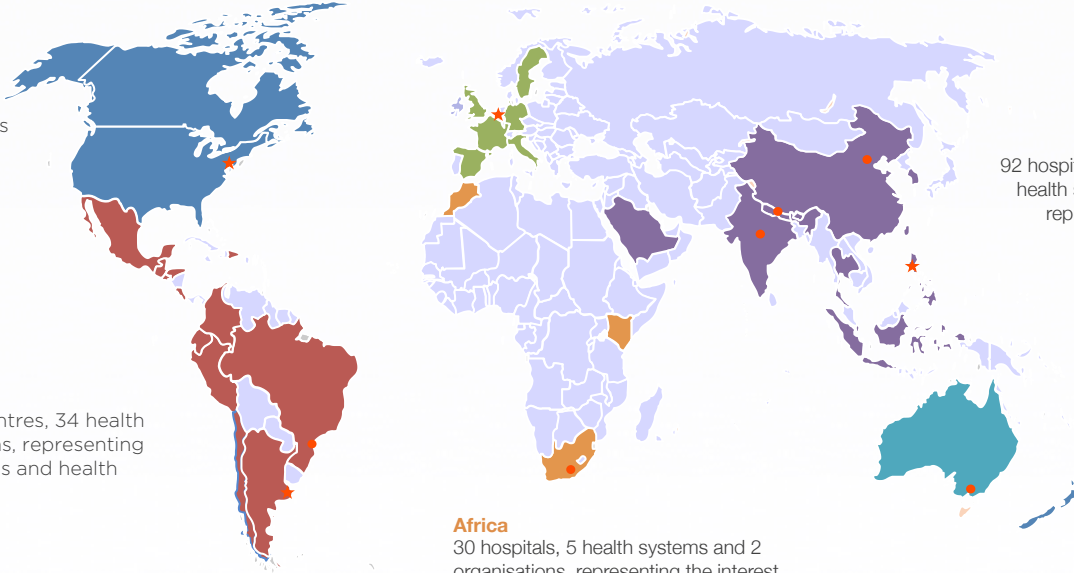
92 hospitals and healthcare facilities, 6 health systems and 11 organisations representing the interest of 8,224 hospitals and health centres.

## Pacific

6 hospitals, 19 health systems and 5 organizations, representing the interest of 581 hospitals and health centers.

## Africa

30 hospitals, 5 health systems and 2 organisations, representing the interest of 1,453 hospitals and health centres



★ HCWH Regional Offices  
● Strategic Partners

# EUROPEAN GGHH MEMBERS



- 22 hospitals and health centres,
- 19 health systems, and
- 9 organisations
- Representing the interest of 6,602 hospitals and health centres.

**United Kingdom: 24 members**

**Ireland: 1 member**

**France: 3 members**

**Spain: 12 members**

**Sweden: 5 members**

**Germany: 2 members**

**Ukraine: 1 member**

**Italy: 2 members**





# EXPERTS FROM AROUND THE WORLD



**60 from academic, government, public sector, private sector in all 10 goal areas**

# GGHH PROGRAMMES & BENEFITS



The GGHH Agenda and its 10 sustainability goals



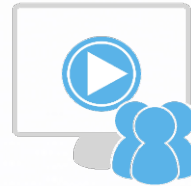
Protect public health from climate change



A data center to measure your footprint and track progress



An online global collaboration platform



Online education to learn about sustainable health



Guidance documents for sustainable health care action

Find out more at [www.greenhospitals.net](http://www.greenhospitals.net)



**Mobilising healthcare institutions around the globe to  
protect public health from climate change**




- The **connective tissue** of the GGHH network
- **1,200** users from around the world
- Innovative online platform
- Access all GGHH member **tools and resources**
- **Crowd source** questions and receive advice
- Visit **community spaces and discussion forums** focused on the 10 goal topics
- Inspire and educate
- Access **Hippocrates data centre**



# GGHH CONNECT – COMMUNITY DISCUSSIONS


My Homepage Communities 7 Aidan Long Help


 Search Site...   Select Language


Home Forums News Blog Case Studies Tools & Resources Experts Members Communities


Pharmaceuticals - Productos farmacéuticos > Home


## Pharmaceuticals Community


 **Discussions Forum** | Bring questions, project updates, and topics to discuss with your colleagues.

 **News** | Read the latest Pharmaceuticals news

 **Case Studies** | Read success stories of your colleagues in implementing Pharmaceuticals projects

 **Tools & Resources** | Access a digital library to deepen your knowledge and assist you in working on this issue


 **Experts** | View a list of Pharmaceuticals Experts available to provide advice and answer your questions

 **Community Members** | A directory for the Pharmaceuticals community





### HCWH Report: Unused Pharmaceuticals: Where do they end up?

This report discusses the results of a survey carried out by HCWH Europe in the capital cities of six European countries to understand the general public's approach to disposal of unwanted medicines and to help assess the efficiency of existing pharmaceutical collection schemes.

[Download the Report](#)




### Recent Community Activity

All	Forums	Blogs	
Posted by	Title		Type
 <a href="#">Anja Leetz</a>	<a href="#">Pharmaceutical Pollution - the need for sustainable procurement</a>		Forums
	Discussion Forum   Pharmaceuticals (in English)		
 <a href="#">Adela Maghear</a>	<a href="#">New animation explaining pharmaceutical pollution and Safer Pharma</a>		Forums
	Discussion Forum   Pharmaceuticals (in English)		
 <a href="#">María Della Rodolfa</a>	<a href="#">RE: Antibiotic resistant bacteria in hospital wastewater systems</a>		Forums
	Discussion Forum   Pharmaceuticals (in English)		
 <a href="#">Ruth Stringer</a>	<a href="#">Flies spread antibiotic resistance from farms to people</a>		Forums
	Discussion Forum   Pharmaceuticals (in English)		

# GGHH CONNECT – COMMUNITY DISCUSSIONS

My Homepage Communities 7 Aidan Long ▾ Help

 Search Site...   Select Language ▾

Home Forums News Blog Case Studies Tools & Resources Experts Members Communities

[Pharmaceuticals - Productos farmacéuticos](#) > [Forums](#) > [Discussion Forum | Pharmaceuticals \(in English\)](#) > [Pharmaceutical Pollution - the need for sustainable procurement](#)

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## Discussion Forum | Pharmaceuticals

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### Start a New Discussion

Asking a question, sharing an update, or posting an interesting resource takes a few quick steps:

1. Under categories choose the language of the forum you would like to post in.
2. Click POST NEW THREAD
3. Enter the subject and body of your post
4. Your post will be available for all members of the community to access, read, and reply to


Message Boards Home Recent Posts My Posts My Subscriptions Statistics Search Discussions

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## ← Pharmaceutical Pollution - the need for sustainable procurement

Threads [ Previous | Next ] [Post New Thread](#) [RSS](#) [Subscribe](#)

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**Anja Leetz**  
Posts: 4  
Join Date: 6/14/14  
[Recent Posts](#)

[Pharmaceutical Pollution - the need for sustainable procurement](#)  
6/20/17 1:49 PM

Dear colleagues,

HCWH Europe organised a webinar on pharmaceutical pollution with a specific angle on procurement. You can listen to the recording [here](#).

Speakers were **Professor Alistair Boxall**, Professor in Environmental Science - *University of York Environment Department* and **Ms. Lorea Coronado-García**, Greening Health Systems Specialist - *UNDP HIV, Health and Development Team, Istanbul Regional Hub*

Let me know if this is interesting and useful for you or if you want us to put on additional webinars on pharmaceuticals.

Regards Anja

[Reply](#) [Reply with Quote](#) [Quick Reply](#)

# GGHH CONNECT – COMMUNITY DISCUSSIONS

What are the most effective strategies for energy conservation in hospitals?





**One-stop shop for healthcare sustainability data!**



# NOT JUST ABOUT DATA!

The screenshot displays the GGHH CONNECT web application interface. At the top, there is a dark teal header with "My Homepage" on the left, a search bar containing "Communities", and user information "Admin" with a notification badge "3" and "Ale Livschitz" with a dropdown arrow, followed by a "Help" link. Below the header is the GGHH CONNECT logo and a "Search Site..." input field with a magnifying glass icon. A light gray navigation bar contains a "Home" button. Below this is a blue navigation bar with a "HIPPOCRATES" logo and buttons for "Home", "Profile", "My Team", "Data Forms", "Graphs and Reports", "Archive", "Notifications", "Help Guides", "Contact Us", and a "Language" dropdown menu. The main content area features a large gray header for "Example Hospital" and a grid of eight circular icons with labels: "Profile" (blue person icon), "My Team" (green group icon), "Notifications" (black bell icon with a blue "26" badge), "Contact Us" (orange envelope icon), "Data Forms" (blue and red document icon), "Graphs and Reports" (black bar chart icon), "Archive / Submitted Forms" (green book icon), and "Help Guides" (green question mark icon).

# FORMS – REPORT AND TRACK!

2020

## Greenhouse Gas Emissions Data

### About this form

Please complete this form

The time period for this form is  
Once completed, a form should be submitted  
bi-annually up through the end of the year.

All fields marked with an asterisk (\*) are required.

### Greenhouse Gas Emissions

Scope 1, 2 & 3 emissions

- Scope 1 emissions: Direct emissions from sources owned or controlled by the facility
- Scope 2 emissions: Indirect emissions from the generation of purchased electricity for the facility

Scope 1, on-site

Scope 2, purchased

Total on-site renewable energy

Renewable Energy

renewable energy

On-site renewable energy

Annual total final energy

Area of Facility / Gross area or enclosed area



## Energy | Self assessment

### Continuous Use Electricity Generated in Hospital

Electricity Grid

From Gas 1

Natural Gas

From Gas 2

Bottled Gas/LPG

From Liquid Fuel 1

Naphtha/Gasoline

From Liquid Fuel 2

Area of Facility / Gross area or enclosed area



## Waste | Self assessment

For each type/category of waste stream, enter the amount in kilograms sent to each treatment method utilized

	Non-hazardous or general health-care waste (in kg)	Biohazardous / Infectious Waste (in kg)	H
Recycled			
Non-incineration (non-burn) treatment			
Incineration			
Other/Don't know			

Option 1 | Enter the totals generated for each type/category of waste stream

# GRAPHS – BENCHMARK AND COMPARE!

Emissions from Burning Diesel Electricity + Thermal (In metric tons of CO<sub>2</sub>)

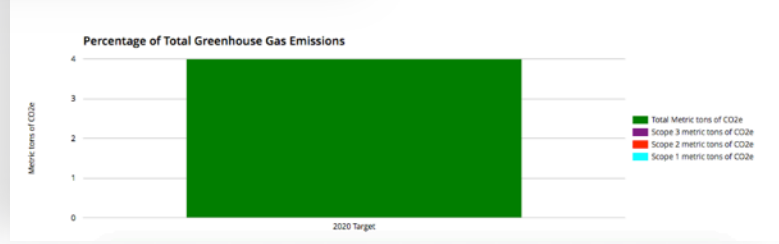
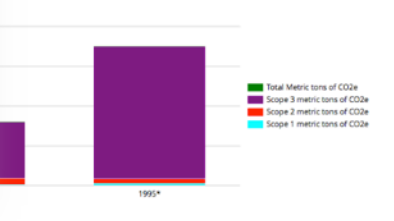
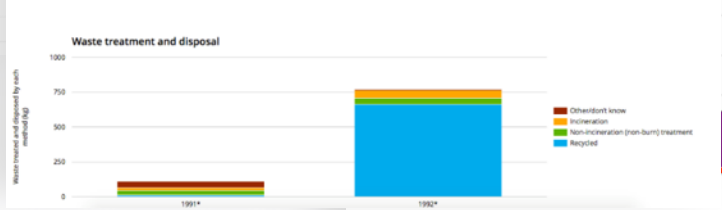
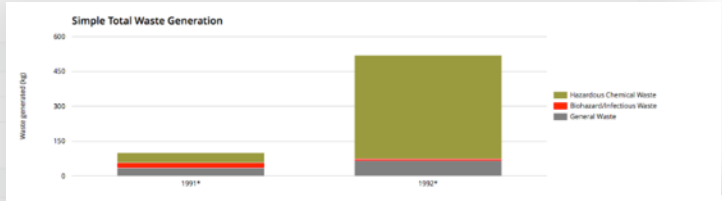
Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
2010	0	0.08	0	0	0	0	0	0	0	0	0	0	0.08
2011	0.813	0	0	0	0	0	0	0	0	0	0	0	0.813

Emissions from Burning Diesel for Transportation (In metric tons of CO<sub>2</sub>)

Year	Jan	Feb	Mar
2010	0	0.027	0
2011	0.271	0	0

Emissions from Burning Naptha for Transportation (In metric tons of CO<sub>2</sub>)

Year	Jan	Feb	Mar
2010	0	0.026	0
2011	0.239	0	0



# INTERACT WITH YOUR TEAM AND OTHERS AROUND THE GLOBE!

Messages (41 new)

• Write new message

Actions...

**My Team**

Team Dashboard View Profile Edit Profile My Team

Full Name	Email Address	Roles	Edit Roles
Ale Livs	<a href="mailto:ale.livs@gmail.com">ale.livs@gmail.com</a>	Greenhouse Gas Reduction Targets administrator Greenhouse Gas Reduction Targets editor Resiliency and Leadership administrator Resiliency and Leadership editor Energy administrator Energy editor Waste Self-Assessment administrator Waste Self-Assessment editor Greenhouse Gas Emissions Data administrator Greenhouse Gas Emissions Data editor	<a href="#">edit roles</a>
Alejandra Livschitz	<a href="mailto:alejandra@hcwh.org">alejandra@hcwh.org</a>	Greenhouse Gas Reduction Targets administrator Greenhouse Gas Reduction Targets editor Resiliency and Leadership administrator Resiliency and Leadership editor Energy administrator Energy editor	<a href="#">edit roles</a>
Josh Karliner	<a href="mailto:josh@hcwh.org">josh@hcwh.org</a>	Greenhouse Gas Reduction Targets administrator Greenhouse Gas Reduction Targets editor Resiliency and Leadership administrator Resiliency and Leadership editor Energy administrator Energy editor	<a href="#">edit roles</a>

Language dropdown menu options: English, Español, Português

# JOINING GGHH

Membership is **FREE**

Open to the Health Sector

- Hospitals
- Health Systems
- Health Centers
- Healthcare Organizations



Member request on the GGHH website: [www.greenhospitals.net/](http://www.greenhospitals.net/)

For more information contact: [globalnetwork@hcwh.org](mailto:globalnetwork@hcwh.org)