



GLOBAL  
GREEN and  
HEALTHY  
HOSPITALS

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

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



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HCWH Europe



Highlands and Islands Enterprise  
Iomairt na Gàidhealtachd 's nan Eilean

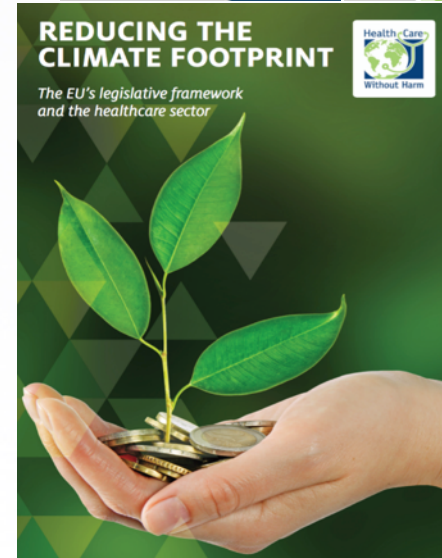
# ABOUT HCWH EUROPE

- A **non-profit coalition** of hospitals, healthcare systems, healthcare professionals, local authorities, research/academic institutions, and environmental and health organisations.
- **Bringing the voice of healthcare professionals** to the European and global policy debates about key issues, such as: chemicals, climate change and health, green building, sustainable procurement, pharmaceuticals, sustainable food, and waste management.
- **Educating the health sector** to understand the importance of the environment and press healthcare leaders and professionals to advocate for broader societal policies and changes.



# HOW DO WE WORK?

- Provide **information** (reports, briefings, fact sheets, infographics, videos, webinars, newsletter)
- Exchange **best practice** from our members
- Organise **workshops**, conferences
- Online **platform** for discussion GGHH connect
- Organise **advocacy** events, site visits, etc.



# CleanMed Europe conferences



- 2004 – Vienna/AT
- 2006 – Stockholm/SE
- 2012 – Malmö/SE
- 2013 – Oxford/UK
- 2016 – Copenhagen/DK
- 2016 – Nijmegen/NL



CleanMed Europe 2013 | Oxford



CleanMed Europe 2012 | Malmö



CleanMed Europe 2006 | Stockholm



CleanMed Europe 2004 | Vienna  
CleanMed Europe 2004 | Wien (German site)



# Global Green and Healthy Hospitals Agenda: 10 Goals



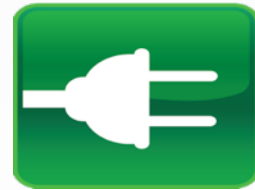
Leadership



Chemicals



Waste



Energy



Water



Transportation



Food



Pharmaceuticals



Buildings



Purchasing

## Comité pour le Développement Durable en Santé

Accueil | Qui sommes-nous | Actualités | Adhérer | Accès adhérent | Partenaires | Contact

### Outils



Extraits du guide 2009

▼ Téléchargez le bon de commande du "Guide des pratiques vertueuses 2009"

▼ Télécharger le dossier de presse du guide 2009



Extraits du guide 2010

▼ Téléchargez le bon de commande du "Guide des pratiques vertueuses 2010"

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Visionner la bande annonce du film du C2DS

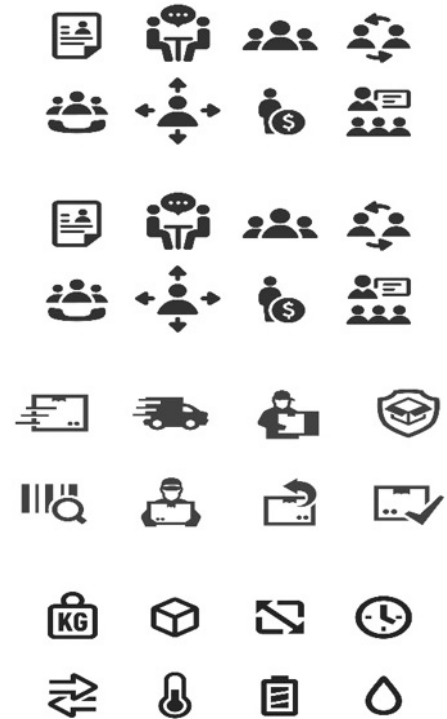
▼ Téléchargez le bon de réservation du film

# Ethical procurement for health workbook

Provide practice knowledge and guidance for implementing ethical procurement in health and social care organisations, and procurement organisations serving this sector.

Promote awareness of labour standards risk in supply chains serving the health and care sector.

Encourage a culture of due diligence, continuous improvement and supplier partnership that adequately prioritises and resources ethical procurement.



# To walk the talk

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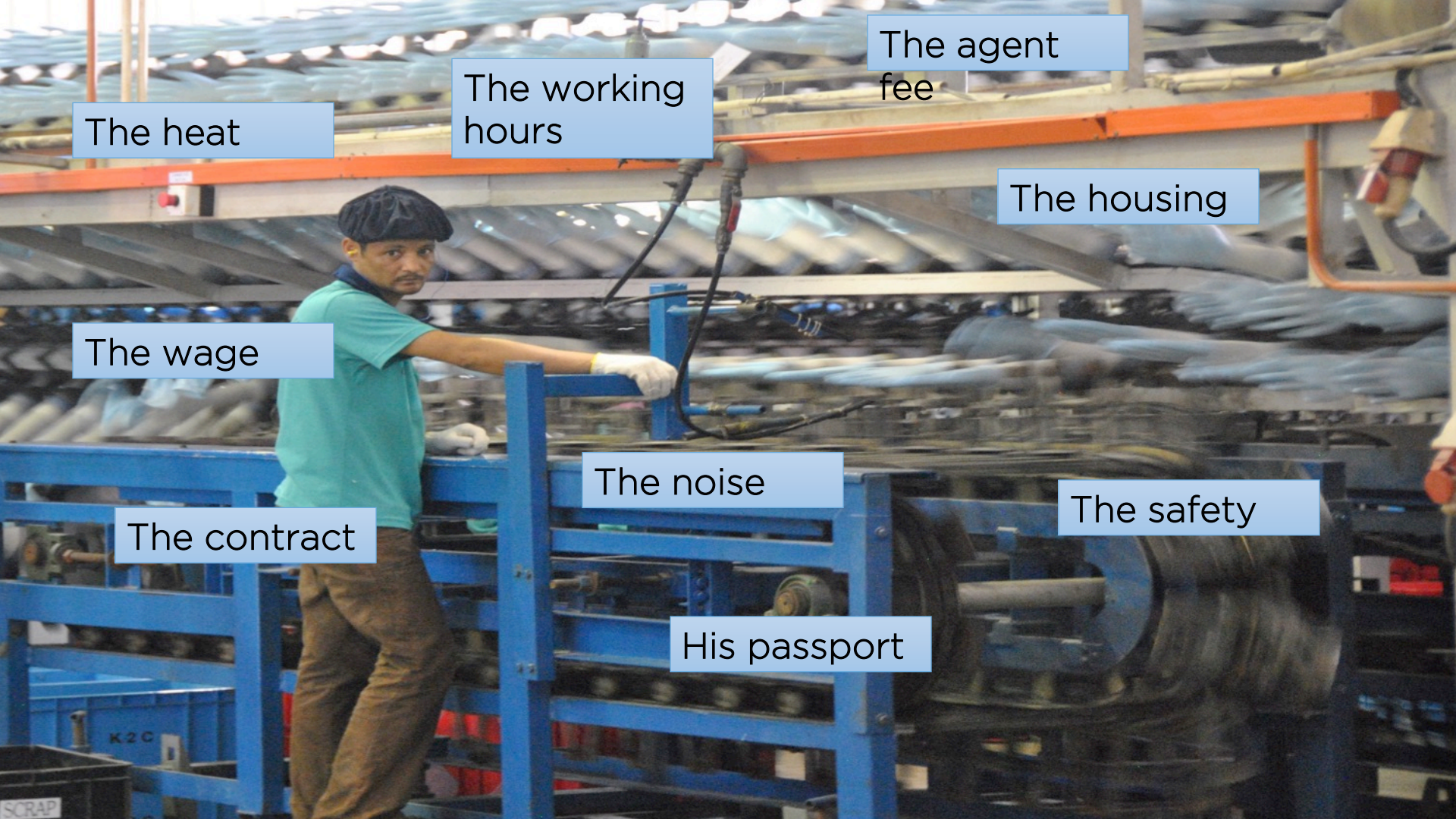
## *-Taking corporate responsibility in public procurement*



“Our job is to make people healthy, we cannot do that on the behalf of other people’s health...”

CEO Mikkelsen,  
South Eastern Norway Health Authority Desember  
2009





The heat

The working hours

The agent fee

The housing

The wage

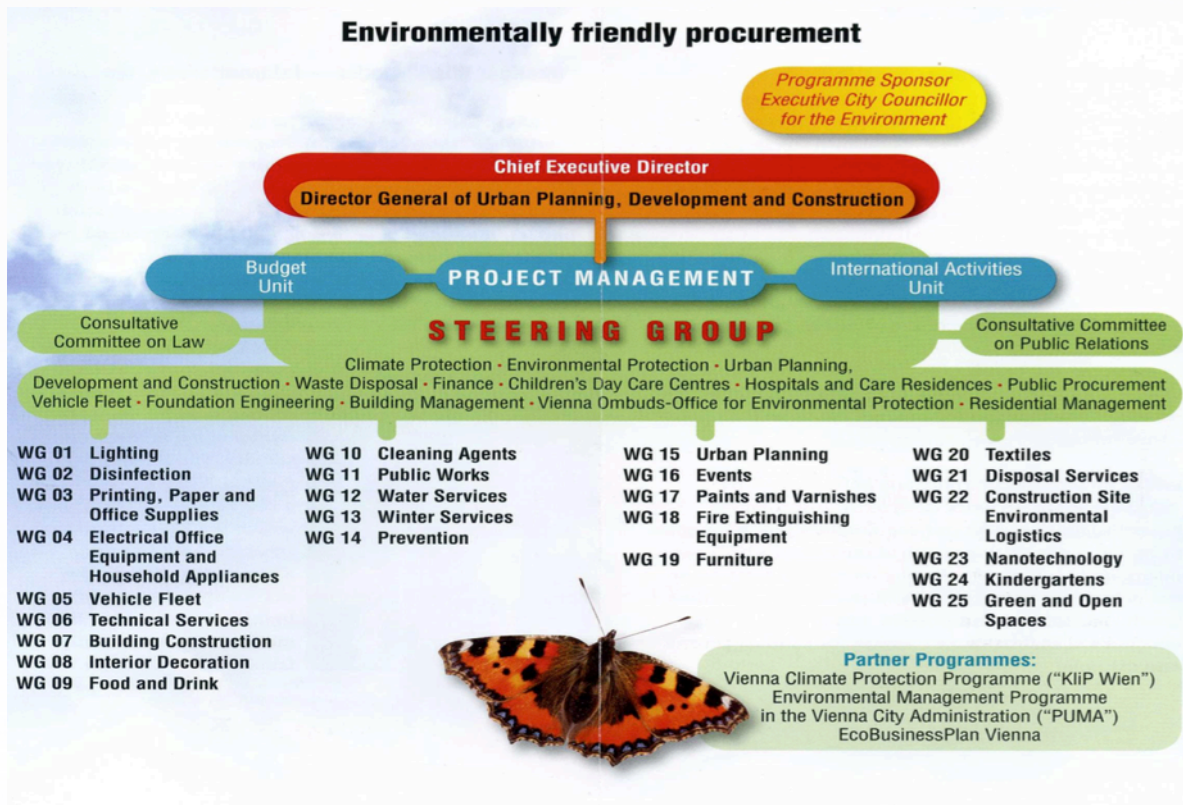
The noise

The safety

The contract

His passport

# City of Vienna



# Green work Vienna

## The Viennese Database for Disinfectants (WIDES Database)



### The WIDES Database

- is an industry-independent information system established by the City of Vienna Climate Protection Programme ÖkoKauf Wien,
- is a user-friendly database that makes it easier for hospitals and other institutions in the health care sector to take into account effectivity, safety and environmental factors when procuring disinfectants and to ensure the safe use of these products;
- contains information on the established effects of commercially available disinfectants and their ingredients as well as the properties of these products that are of relevance for occupational safety and environmental protection.

WIDES database – Sign-on

# Gentofte Hospital (Denmark)

328,500 meals annually

Purchase fresh, seasonal and organic (75%) food produced in Denmark.

Kitchen staff serve food to patients.

Costs are reduced - focus on fresh and handmade food (e.g., bread, marmalades) directly from raw ingredients.

Use of porcelain plates - less



# The New Meyer Children's Hospital (Italy)

160,000 fresh meals every year

Meals are homemade

Use of organic and locally produced products, and following the seasonal calendar.

Two week menu turnover

Vegetable garden for therapy

Cooking classes for parents - educate on the importance of giving healthy and sustainable food to their children once they



# Social Responsibility in Procurement

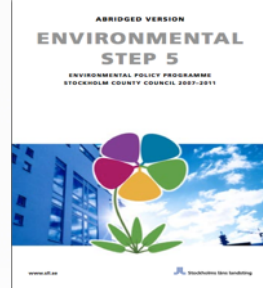
## Social responsibility in procurement

Code of conduct for suppliers



# Stockholm County Council Substances to be Phased-Out

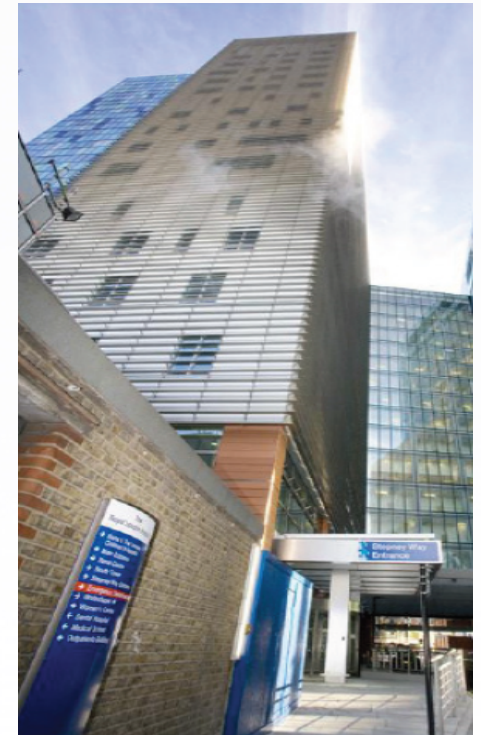
- Alkyl phenol ethoxylates
- **Arsenic and its compounds** *Exception: 0.1% in brass alloy in*
- **Azo dye substances**
- Lead and its compounds
- Brominated Flame retardants (*Exception: medical devices and construction equipment*)
- CFC (Chlorofluorocarbons)
- Cyclohexane
- Diflubenzuron
- Hydrofluoric acid (*Exception: Hydrofluoric acid less than 7%*)
- Formaldehyde
- Phthalates
- FTOH (Flouro-telomer alcohol)
- Certain Dye substances
- Glutaraldehyde (*Exception: Use for fixation of preparations*).
- HCFC (Hydrochlorofluorocarbons)
- **Chromium (VI) compounds**
- Sodium dichromate (dihydrate)
- Potassium dichromate
- **Mercury and its compounds**
- Perfume substances
- Pentachlorophenol
- Permethrine
- PFAS (Perfluorinated substances)
- Piperonyl butoxide
- Polyaromatic hydrocarbons
- Pirimicarb
- PVC
- Pyrethrins I and II
- Silver and its compounds (*Exception (silver): Medical equipment and dressings. Exception (silver chloride -labs)*)
- Organic tin compounds

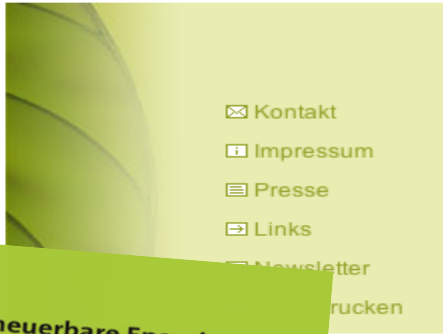
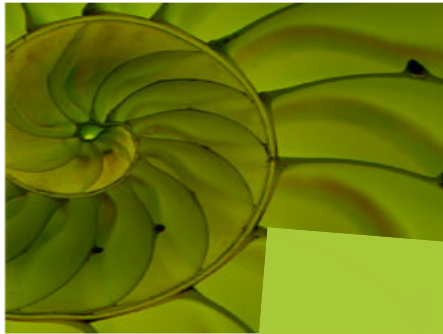


## Barts Health Trust, NHS England

Reduce Carbon Footprint by 34% by 2020 – 80% by 2050

- Between 2007 and 2013 reduced GHG emissions by 25%
- Innovative strategic partnerships to reduce fuel poverty
  - Improves energy efficiency of housing
  - Reduces Emergency Department cold weather patient incidents
  - Saves NHS £.42 on every £1 spent on initiative





German report on renewable energy and energy efficiency in German clinics

Found 1 hospital bed uses as much energy as three newly build family homes





## Energy label BUND - Germany



Energy certificate for five years, criteria: reduce CO<sub>2</sub> by 25% in five yrs, cont. Energy reduction of energy use, long-term optimal energy consumption, energy management

Over 133 000 MWh energy saved 23 000 MWh/a electricity and 110 000 MWh/a heat

Over 55 000 tonnes of CO<sub>2</sub> saved (~ annual output of 1400 households in DE)

Hospitals save 100K – 2.1M EUR/year

# Mapping of discharge from Aarhus University Hospital

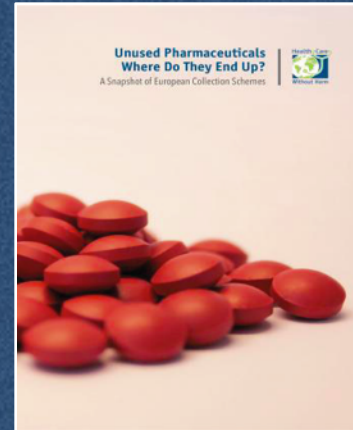
- Only pharmaceuticals where consumption in secondary sector exceeds 2% of national consumption.
- Based on a Danish list containing 42 pharmaceuticals (expanding)
- Toxicity in nature based on PNEC
- Precondition: All consumed medicine is disposed directly into the toilet/sewer (conservative estimate)
  - Metabolisation is not in consideration
  - Cocktaileffekt is not in consideration
  - Half-life is not in consideration
- Only pharmaceuticals consumed by Aarhus University Hospital is included.



## Publications



Pharma Research  
Priorities



Unused Pharmaceuticals  
Report



Pharma Leaflet  
(4 languages)