



Environmental Sustainability Management



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Session II : Hospitals and Sustainable Practices
Eco-Friendly Hospitals For A Sustainable World
22 Feb 2016

So why are we doing it?



Waste Project

Board directive

Strategic plan

Legislations

Social responsibility

Staff and community expectations

Reduce Consumption – save dollars!



Healthcare Impacts



- High emissions, energy and waste
- Large and diverse supply chain
- Yet we're meant to 'Do no Harm'



DAMAGING THE PLANET DAMAGES HUMAN HEALTH



CLIMATE CHANGE

If unchecked climate change related impacts could cause an extra

250,000

deaths per year

between 2030 and 2050¹

BIODIVERSITY LOSS



Overfishing together with increasing acidity and other environmental changes threaten fish supplies



UNDER NUTRITION

Millions of people are at risk of under nutrition due to the combined effects of climate change and other environmental changes



WATER USE

By 2050 over

40%

of the world's population could be living in areas under severe water stress



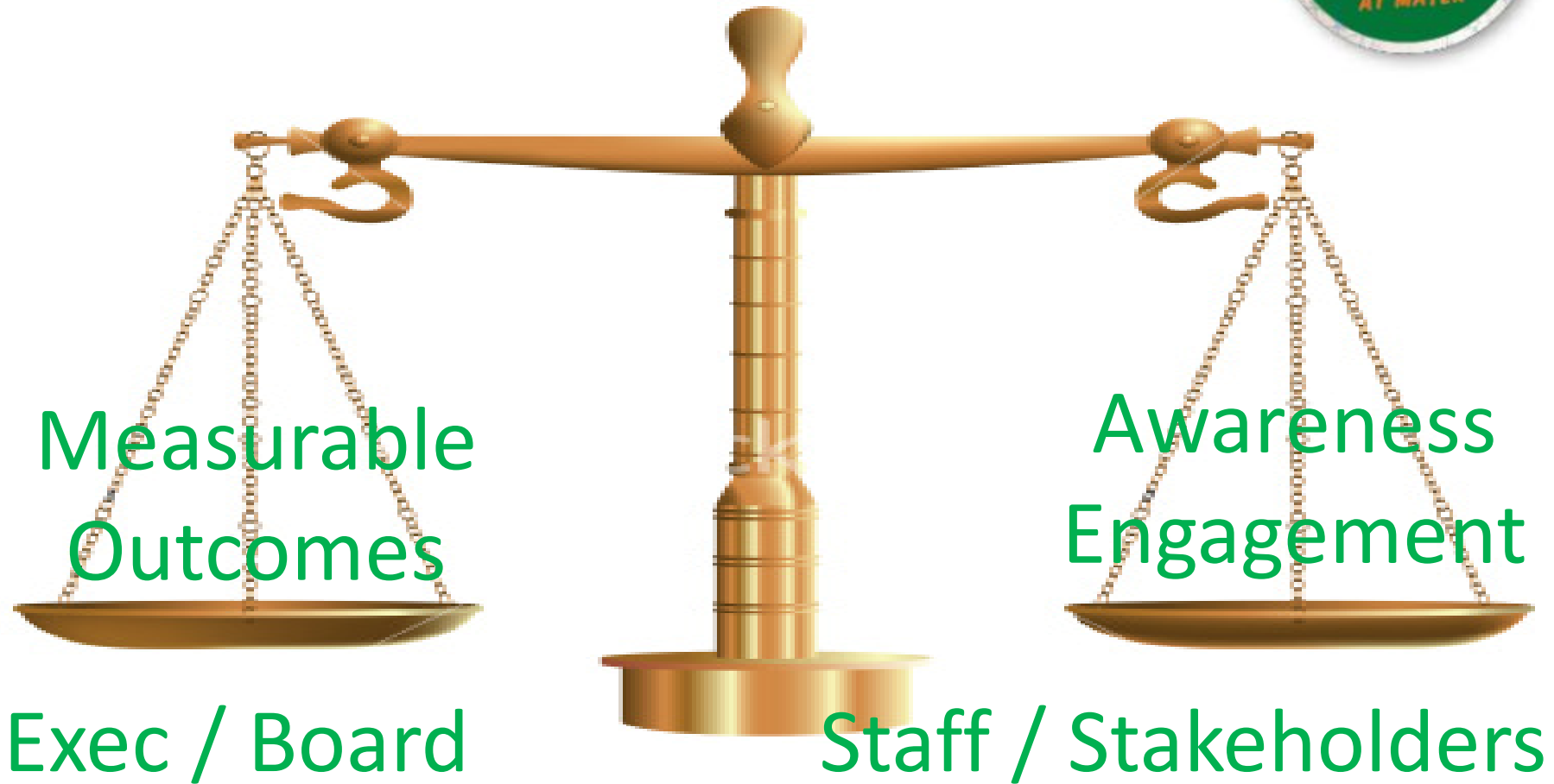
SOIL DEGRADATION

This leads to a loss of

1-2

million hectares of agricultural land per annum

Balancing Act

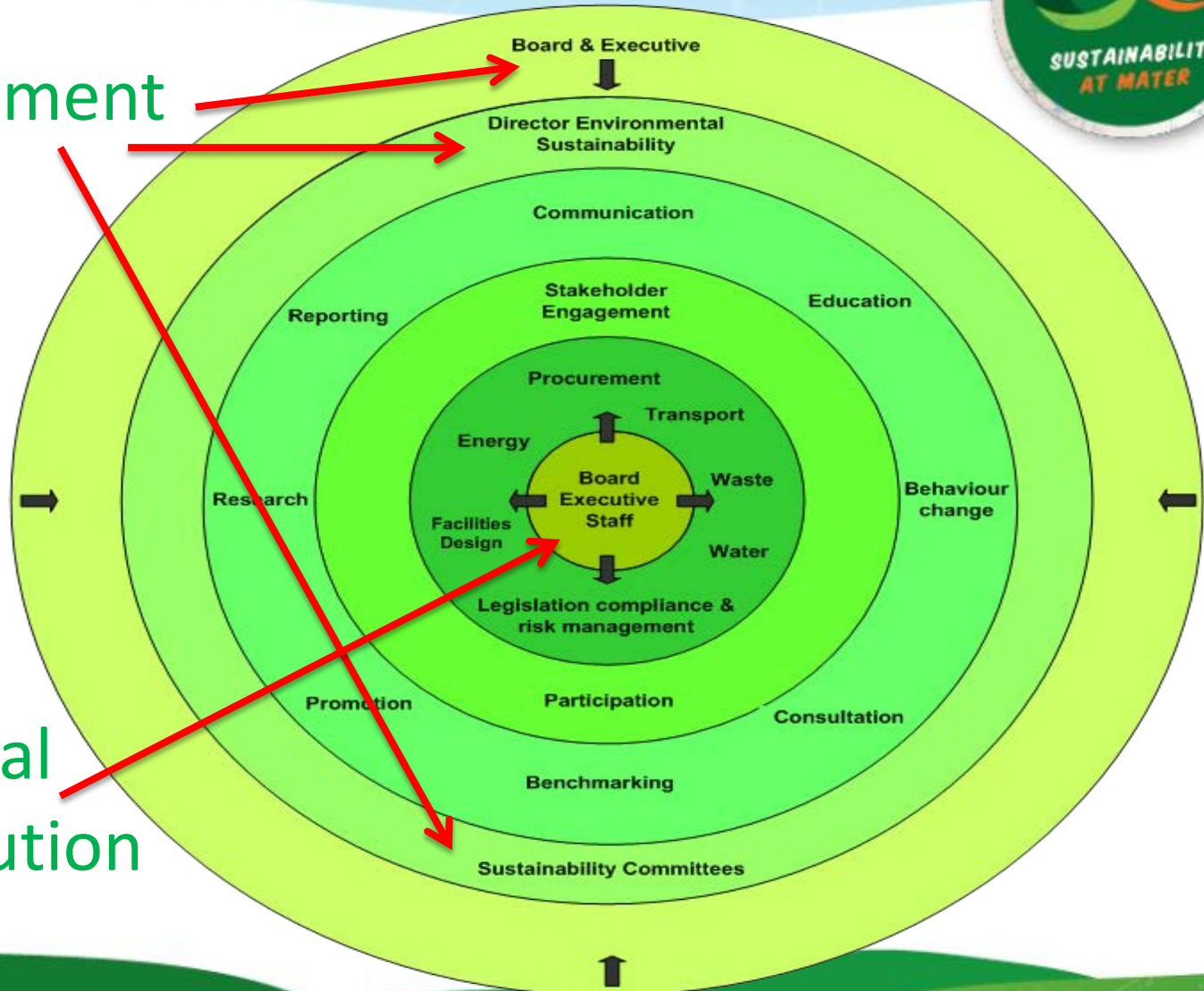


Source:- <http://www.macrobusiness.com.au/2012/11/dismantling-our-asian-neutrality/>

ES Vision 2012-2015



- Management



- Individual Contribution

Initiatives Summary



Status	Initiatives	Theme	Initiatives
Commenced	24	Energy	40
Completed	114	Facilities Design	4
Not Viable	16	Procurement	8
On Hold	6	Staff Engagement	41
		Transport	11
		Waste	49
		Water	7
TOTAL	160	TOTAL	160

Engagement - Infrastructure



- Easy wins (can see and touch)
- Duplex Printing – 10,235,000
- Recycled Plastic Garden Chair
- Water Tanks – 24 – 315,000 Litres
- Bike Parking – 3 cages - 90 spaces plus lockers
- Cartridge / Pallet recycling
- Lighting retrofitting
- Waste is the key!



Research Collaborations



1. Pro Environmental Behaviours in the workplace - exec/board
2. “Turn it Off” campaign
3. “Turn it Off” 6 month follow up
4. All of staff Survey Questions
5. Environmental Sustainability Pledge
6. Pro Environmental Behaviours in the workplace – follow up with exec & board interviews
7. Pledge Follow up / Behaviours in the Workplace

Communication / Reporting



- Communication plan
- Web pages – Internal / External
- Heads of Dept. / all of staff updates
- Multiple publications
- Twice yearly – Exec / Board reports



Education

Pro Environmental Behaviours in the workplace



- Recognized Education programs
 - Managers Program
 - Diploma Nursing
 - On line package
- Orientation
- Road shows (over 250)
- Behavioural standards – workbook
- Behaviours in personal action plan (Mater wide objectives)



Earth Hour March 2011



CEO Dr John O'Donnell, points out how easy it is to turn off your computer each night.

Executive Director of Facilities Dr John Gilmore goes to great heights to ensure his air conditioner is turned off when not in use.

Director of Nursing and Midwifery Services Mish Hill bends over backwards to ensure her light is turned off when she leaves her office.

Executive Director of People and Learning Caroline Hudson gets down and unplugs her chargers when not in use.

Turn it Off

21-26 March 2011, is turn it off week!

These small changes in energy consumption behaviour can make a huge difference. Don't just make the change for an hour or a week, but permanently. See where you can make a difference. Take up the challenge today!

Mater
Exceptional People. Exceptional Care.

Turn it Off

Measured Pre and Post Campaign by online staff survey as well as through visual late night audits

Keep Cup Campaign – July 2011



- Awareness
- Ongoing coffee discounts
- Cost Neutral
- 4000 sold
- Over 65,000 refills
- Another 500!

- Prompts discussion and questions

*Mater's Sustainability Committee presents
the Keep Cup - the coffee cup
that keeps on giving*

A promotional graphic for the Keep Cup campaign. It features a brown Keep Cup with a green band that says "keep cup". To the right of the cup is a yellow starburst containing the text "\$10 Includes one free coffee!". The background is light blue with stylized green and orange shapes representing trees and sun. At the bottom, there is a small Mater logo and the text "Exceptional People. Exceptional Care.".

Buy a Keep Cup to keep your coffee fresh and help reduce waste. For every coffee you purchase using your Keep Cup at Mater Cafes, you will receive a discount!

For more information on the sustainability committee go to the intranet and click on departments and then the sustainability tab.


Exceptional People. Exceptional Care.



Pledge – June 2012

Intranet/Paper option




Environmental Sustainability Pledge

Below are a number of behaviours that you can choose to pledge to, depending upon your work circumstances. If you choose to participate, a voucher for a "Hot Drink" will be sent to your work address. These responses will be added to the online responses displayed on the front page of the intranet to promote and grow the uptake of staff engagement behaviours.

1) To demonstrate my commitment to sustainability at Mater Health Services, I pledge to:

BEHAVIOUR	YES	NA
Energy		
Turn off my computer when I leave work at the end of the day		
Turn off my monitor when I leave work at the end of the day		
Turn off lights when I leave work at the end of the day		
Turn off air-conditioning (if applicable) when I leave work at the end of the day		
Turn off printers when I leave work at the end of the day		
Turn dishwashers off when dishes are not being processed		
Take the stairs instead of the lift		
Water		
Use a refillable water bottle instead of purchasing bottles of water		
Only use the dishwasher when it is fully loaded		
Turn off taps while soaping up hands where sensor activation is available		
Transport		
Reduce the number of car trips by using public transport, walking, car-pooling, and/or riding a bike		
Use tele- or video-conferencing to reduce work-related car and plane trips		
Waste		
Reduce paper consumption by printing on both sides		
Reduce printing by only printing when necessary		
Bring my own "Sustainability Keep Cup" when purchasing coffee and/or other hot drinks		
Segregate general waste from clinical		
Segregate recycling waste from general waste (when available in my area)		

Please turn over sheet to complete

How do you measure Engagement / Awareness?



Staff Category	Number of Pledges
Nursing	1082
Administrative/Clerical	724
Allied	328
Health Practitioners	97
Medical	90
Volunteers	55
Hotel Services	47
Ancillary	32
Trades	27
Wards Persons	18
Grand Total	2500

Theme	Behaviours
Energy	9489
Water	5435
Transport	2341
Waste	9754
Total	27019

Encouraging Environmentally friendly behaviour – May 2013



One on one interviews with Executive and Board members

- Emphasise the demonstrated positive outcomes of initiatives
- Staff engagement, Waste and Energy
- Embedding ES into practices, processes and decision making
- **3rd follow up planned Sept 2016!**

Awareness Campaigns

Turn it off



Environmental Sustainability Pledge

100%

2501 / 2500 pledges by staff to date
(click here to view)

To make your sustainability pledge -
click here





So What?

Measurement

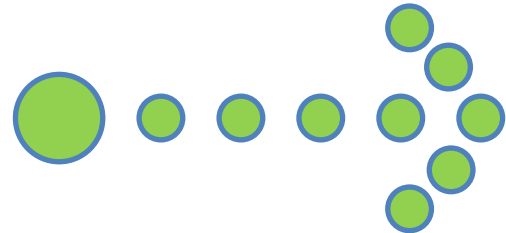
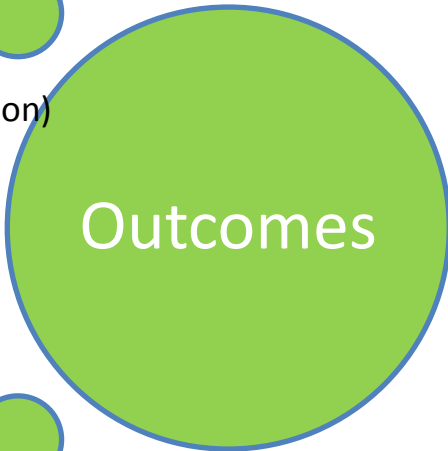


(Awareness / Education / Participation)

Engagement



Actions



Exceptional People. Exceptional Care.



Staff Survey - Is the Organisation becoming more Sustainable ?

2015
3111
(64%)

2011
3686
(69%)

Mater Health Services Executive Team is committed to environmental sustainability.

56%	47%	8.8%
	2011	Better

Mater Health Services needs to do more to improve the organisation's environmental sustainability.

50%	52%	-1.8%
	2011	Equal

People in my work unit carry out environmentally friendly behaviours in the workplace.

48%	40%	7.2%
	2011	Better

In my daily work, I carry out environmentally friendly behaviours.

62%	58%	4.5%
	2011	Better

I am aware that there are programs at Mater Health Services that promote environmental sustainability.

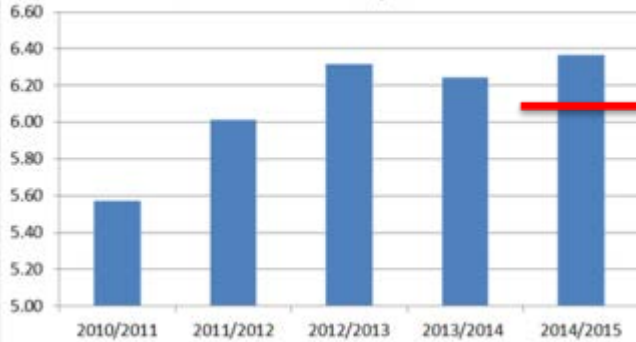
69%	56%	12.8%
	2011	Better



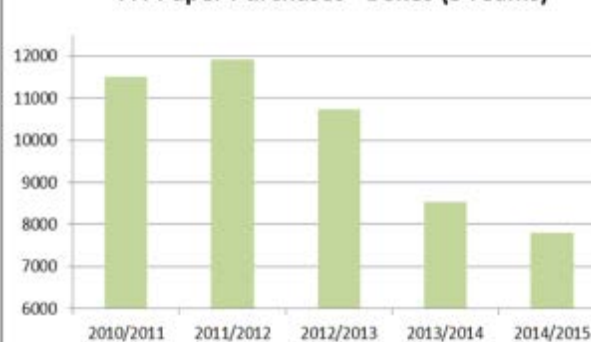
Indicators



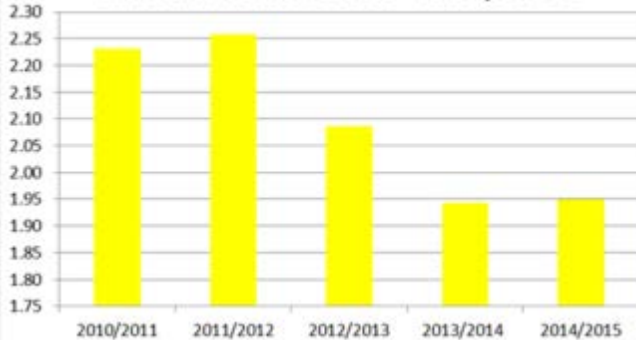
General - Kilos per OBD



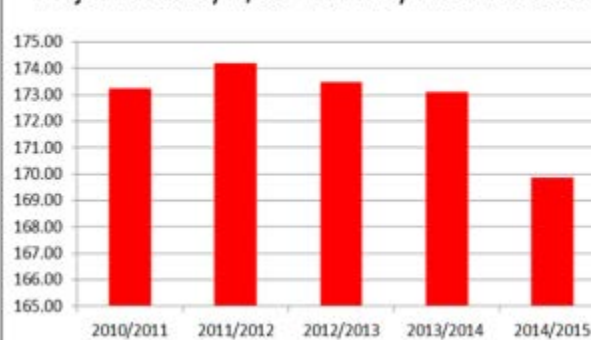
A4 Paper Purchases - Boxes (5 reams)



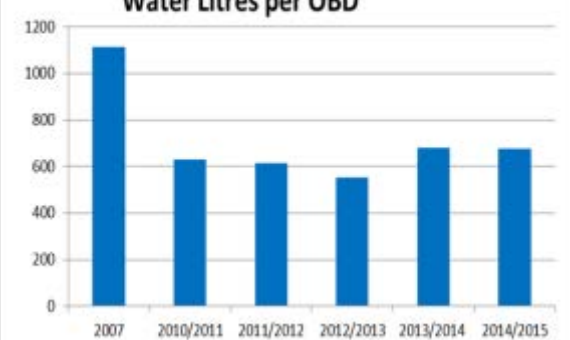
Clinical & Related Waste - Kilos per OBD



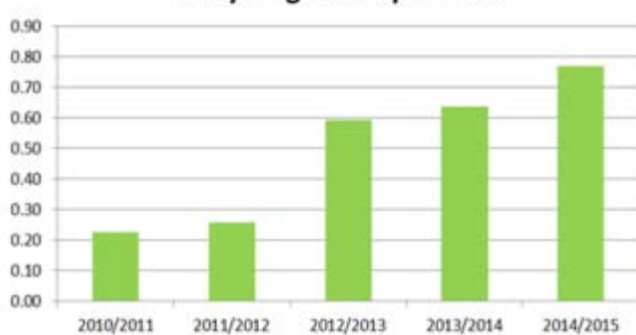
Major Electricity A/c's - kWh by Floor Metres



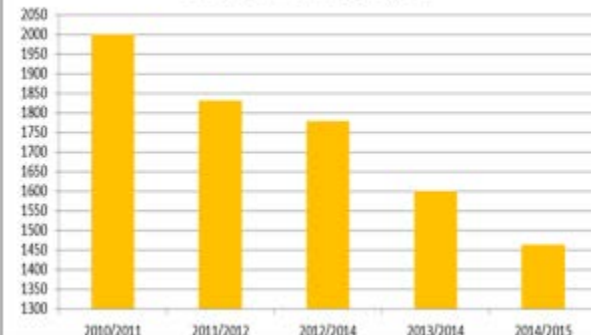
Water Litres per OBD



Recycling - Kilos per OBD



Litres per Vehicle per year



Indicator Highlights



- Waste Reduction since 12/13 – 200 tonnes
- Clinical waste down 7%
- Recycling waste up 6%



- Paper purchases – down 31% / Duplex over 10 Million
- Electricity – Cost down 14% / Consumption down 3%
- Fleet , Fuel – down 46 cars / litres per vehicle down 22%
- Water 40% reduction from 2005/2006

Strategic



- **Environmental Management Plan** combining:
 - Energy Management Plan
 - Waste Plan – Ownership by all
 - Communication Plan
- Sustainability **software solution** (metrics on intranet)
- **Waste Segregation Education** – Nursing / Midwifery (largest cohort)
- University Research Links



Accelerating the Strategy



- Next Step be 'Exceptional. Every Time'
- Mater People Accountable for:- Sustainability
 - Being socially, economically and **environmentally** responsible
- Ground work in place – keep linking it into BAU activities

Global Green and Healthy Hospital Network



- HUGE network available online and FREE
- Don't reinvent the wheel!



Joining GGHH

Only Health Care members

- Hospitals
- Health Systems
- Health Care Organizations

Member request on website:
www.greenhospitals.net

The screenshot shows the website's navigation menu with options: Home, About, Overview, Case Studies, Tools and Resources, Become a Member, Media Center, and Contact Us. The main content area is titled 'Join the Network' and includes the following text:

Joining the Global Green and Healthy Hospitals network is a fluid and easy process. Following these three steps to become a member today:

- STAGE 1: Join**
 - Send us a letter of intent to join and wait for your welcome packet
- STAGE 2: Get started**
 - Log on with the username and password you received in your welcome packet
 - Create your personal profile with brief information about your organization's sustainability goals
- STAGE 3: Track progress**
 - Provide an update on the steps you've taken to work towards your sustainability goals: successes, challenges, goals reached, goals for the coming year, etc.

On the left side of the screenshot, there is a 'Ten Goals' menu with the following items: Overview, Leadership, Chemicals, Waste, Energy, Water, Transportation, Food, Pharmaceuticals, Buildings, and Purchasing. Below that is a 'The Agenda' section.

Barriers / Challenges



- Mater is busy and BIG – competing priorities
- Knowing the business and who's who – a huge bonus
- Start with easy wins
- Step around those not engaged (path of least resistance)
- Trying to do much!
- Networking with everyone – GGHH, Industry, Universities



Take aways



- Top Management Support



Source:-
<http://www.hcsrp.com/Services/ManagementSupport.aspx>

- Leader to champion the cause (positive agitator)
- Multiple contributions (individuals) – do make a difference
- Embed into BAU – more \$ for Patient care
- Link in with GGHH network – FREE



International Network for Health Promoting Hospitals & Health Services

The Task Force on Health Promoting Hospitals and Environment

Asia-Pacific Regional Symposium 2016

Eco-Friendly Hospitals For a Sustainable World

22-23 February 2016 | Griffith University | Brisbane | Queensland | Australia



Program BOOKLET



AN INTERNATIONAL KNOWLEDGE AND PRACTICE-SHARING REGIONAL SYMPOSIUM ON

"ECO-FRIENDLY HOSPITALS FOR A SUSTAINABLE WORLD"
MONDAY, 22nd Feb 2016

Griffith University, Nathan Campus

Hosted by The Task Force on Health Promoting Hospitals and Environment
of International Health Promoting Hospitals and Health Services Network
and co-hosted by Griffith University

Venue: Griffith University Nathan Campus, Building N18 (Central Theatre), Theatre II

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