MELBOURNE HEALTH

Melbourne Health Environmental Report

2015-16



Melbourne Health Environmental Report 2015-16

Introduction

Melbourne Health continues to promote environmental sustainability among staff, visitors, patients and consumers in line with the priorities and goals in our 'Think Green' strategy. Our sustainability initiatives are led and supported by our Executive Committee.

This report details our progress towards reaching our 'Think Green' goals throughout the 2015-16 financial year.

Think Green strategy 2015-2020

Priorities

- Minimise our environmental footprint by encouraging environmentally sustainable practices.
- Foster a 'think green' culture in everything we do.

Strategic Goals

Goal 1 - Continued improvement in waste segregation and reductionObjectives

- 1. Reduce clinical waste at the Royal Park Campus through better segregation
 - a. Clinical waste at the Royal Park Campus has been reduced by 25 per cent this year
- 2. Maintain clinical waste levels at RMH despite Theatre and ICU capacity increases
 - a. We reduced clinical waste by a further 21 tonnes this year
- 3. Reduce waste to landfill generation and introduce new recycling streams
 - a. We reduced waste to landfill by 26 tonnes at the City Campus and increased recyclables by 13 tonnes at the Royal Park Campus
 - b. We introduced a food waste recycling stream at the City Campus
- 4. Increase recycling rate to 30 per cent
 - a. We achieved a recycling rate of 31 per cent across the two sites

Goal 2 – Implement mechanisms to monitor and reduce resource consumptionObjectives

- 1. Implement Department of Health and Human Services Environmental Database to accurately measure energy and water data
 - a. We continue to work with DHHS to refine the database and are also contributing to a new waste database function
- 2. Investigate energy and water consumption efficiency strategies
 - a. We have installed CO2 sensors in our carpark and are now running six exhaust fans only during peak traffic hours to reduce energy consumption
 - b. A lighting audit at all sites has been completed for all light fittings and replacements of halogen lights with LEDs has commenced
- 3. Establish paper reduction strategies
 - a. We are developing paper reduction strategies with our printer supplier Ricoh. Trials are under way to install printer key cards to reduce unwanted printing.
 - b. The Electronic Medical Record Management System is being implemented this year; resulting in less paper consumption in the future

Goal 3 - Promote green thinking amongst staff, visitors and partners

Objectives

1. Lead through the environment committee

- a. The Environment Committee meets bi-monthly and oversees and coordinates all environmental initiatives and projects
- In October 2015, Melbourne Health was chosen as a finalist for the inaugural Premier's Sustainability Award in the Health category for our Think Green Program

2. Annual events to engage staff, visitors and partners

 Our annual Spring Clean and Environment and Sustainability Expo were well attended and staff also participated in our Switch Off Week in March to mark Earth Hour 2016

3. Annual communications strategy

- a. In June 2016 we released our first quarterly *Thinking Green* newsletter for our Green Champions which is also available to all staff on our Think Green intranet site
- We continue to communicate our achievements and events through articles in our fortnightly staff newsletter, case studies and by sharing our learnings with internal and external stakeholders

4. Transparent internal and external reporting

a. We report our progress publicly through this annual environmental report and also fulfil our legislative reporting requirements

Goal 4 - Encourage sustainable and active transport

Objectives

1. Encourage staff to take public transport, walk or ride to work

a. We have engaged with bicycle users and are planning ride to work events next year

2. Continue to optimise our fleet vehicles

a. We have reduced fleet vehicles by 48 cars, used 1,146 litres less fuel and reduced GHG emissions from fleet use by 70 tCO_{2e}

Goal 5 - Foster sustainable procurement, where feasible

Objectives

1. Engage with HPV Sustainable Procurement Officer to influence HPV tender requirements

a. One of our Green Champions, Dr Katherine Barraclough, lobbied HPV for better pricing on recycled paper products and minimum standards on paper fibre sourcing with the support of our CFO. Dr Barraclough was invited to join the HPV Product Reference Group and the new contract now includes only certified paper and better priced recycled content paper options.

2. Engage with our suppliers

- a. Theatre staff lobbied Johnson and Johnson to take back eskies and reusable freezer packs used to deliver drugs to Theatres
- b. We secured17 exhibitors to engage with 105 staff at our annual Environment and Sustainability Expo

The tables below show our consumption data in detail for both The Royal Melbourne Hospital City and Royal Park campuses.

The Royal Melbourne Hospital - City Campus

2012-13	2013-14	2014-15	2015-16		
			37,920		
		,	71,336		
			10		
			78,126		
			187,392		
			2015-16		
			1.55		
			0.78		
			2.10		
			0.39		
			0.55		
inciaaca iii	Jioor spac				
2012-13	2013-14	2014-15	2015-16		
			4,018		
	-	,	25,120		
		,	29,137		
·			2015-16		
			241		
			122		
			326		
			60		
2012-13	2013-14	2014-15	2015-16		
			236,572		
188.042	152.798	156.660	236,572		
			2015-16		
			1.95		
0.77			0.99		
2.10			2.65		
			0.49		
2012-13	2013-14	2014-15	2015-16		
N/A	N/A	N/A	N/A		
Re-use / recycling rate (percentage) N/A N/A N/A No metering available for re-used/recycled water					
, ,					
2012-13	2013-14	2014-15	2015-16		
443	412	376	355		
864	889	928	923		
431	577	500	481		
			1,759		
2012-13	2013-14	2014-15	2015-16		
			7.35		
7.14	8.19	7.50			
7.14 19.45		7.56 21.53	19.70		
	23.56 4.08		19.70		
19.45 3.76	23.56 4.08	21.53 3.77			
19.45	23.56	21.53	19.70 3.62		
	2012-13 3,319 25,436 28,755 2012-13 251 118 322 62 2012-13 188,042 2012-13 1.64 0.77 2.10 0.41 2012-13 N/A d/recycled 2012-13 443 864 431 1,738	42,032 34,929 65,332 72,301 89 1,502 64,698 69,027 172,151 177,759 2012-13 2013-14 1.51 1.55 0.71 0.78 1.93 2.23 0.37 0.39 included in floor space 2012-13 2013-14 3,319 3,612 25,436 24,142 28,755 27,754 2012-13 2013-14 251 243 118 121 322 348 62 60 2012-13 2013-14 188,042 152,798 188,042 152,798 2012-13 2013-14 188,042 152,798 2012-13 2013-14 1.64 1.34 0.77 0.67 2.10 1.92 0.41 0.33 2012-13 2013-14 N/A N/A d/recycled water 2012-13 2013-14 N/A N/A d/recycled water 2012-13 2013-14 N/A N/A d/recycled water	42,032 34,929 40,613 65,332 72,301 66,667 89 1,502 718 64,698 69,027 72,634 172,151 177,759 180,632 2012-13 2013-14 2014-15 1.51 1.55 1.58 0.71 0.78 0.76 1.93 2.23 2.16 0.37 0.39 0.38 included in floor space 2012-13 2013-14 2014-15 3,319 3,612 3,757 25,436 24,142 25,553 28,755 27,754 29,310 2012-13 2013-14 2014-15 251 243 256 118 121 123 322 348 350 62 60 61 2012-13 2013-14 2014-15 188,042 152,798 156,660 2012-13 2013-14 2014-15 1.64 1.34 1.37 0.77 0.67 0.66		

The Royal Melbourne Hospital - Royal Park Campus

Energy consumption					
Total energy consumption by energy type (GJ)	2012-13	2013-14	2014-15	2015-16	
Electricity (Grid)	13,444	13,458	13,338	14,069	
Natural gas and LPG	17,302	15,838	18,973	27,104	
Other energy types (e.g. steam, diesel)	19	19	19	19	
Total (gigajoules)	30,765	29,315	32,330	41,192	
Normalised energy consumption	2012-13	2013-14	2014-15	2015-16	
Energy per unit of floor space (GJ/m2)	1.21	1.15	1.27	1.62	
Energy per bed-days / per patient treated (GJ)	0.59	0.57	0.64	0.72	
Energy per separations (GJ)	9.95	10.75	12.28	12.44	
Greenhouse gas emissions					
Total greenhouse gas emissions (tonnes CO2e)	2012-13	2013-14	2014-15	2015-16	
Scope 1	889	814	975	1,398	
Scope 2	4,444	4,449	4,372	4,416	
Total	5,333	5,263	5,347	5,814	
Normalised greenhouse gas emissions	2012-13	2013-14	2014-15	2015-16	
Emissions per unit of floor space (kgCO2e/m2)	210	207	210.55	228.94	
Emissions per bed-days / per patient treated (k	102	103	106.03	101.83	
Emissions per separations (kgCO2e)	1,725	1,929	2,031	1,756	
Water consumption					
Total water consumption by type (kL)	2012-13	2013-14	2014-15	2015-16	
Potable water	22,500	29,220	24,971	33,383	
Re-used / recycled water					
Total	22,500	29,220	24,971	33,383	
Normalised water consumption	2012-13	2013-14	2014-15	2015-16	
Water per unit of floor space (kL/m2)	0.90	1.15	0.98	1.31	
Water per bed-days /per patient treated (kL)	0.43	0.57	0.50	0.58	
Water per separations (kL)	7.36	10.71	9.48	10.09	
Water re-use and recycling	2012-13	2013-14	2014-15	2015-16	
Re-use / recycling rate (percentage)	N/A	N/A	N/A	N/A	
No metering available for re-used/recycled water					
Waste generation					
Total waste generation by type (Tonnes)	2012-13	2013-14	2014-15	2015-16	
Clinical waste	18	15	20	15	
General waste	210	208	198	222	
Recycled waste	8	13	22	35	
Total	236	236	240	272	
Normalised waste generation	2012-13	2013-14	2014-15	2015-16	
Waste per bed-days / per patient treated (kg)	4.51	4.62	4.75	4.76	
Waste per separations (kg)	76.22	86.39	91.02	82.10	
Waste recycling	2012-13	2013-14	2014-15	2015-16	
Waste recycling rate (percentage)	4%	6%	10%	14%	
Royal Park is a long-term residential/ aged care facility					
2012-13 recycled waste data incomplete due to multiple contractors					
Clinical waste does not include Sharps as sharps weight data is not available					