



*Passion for
Caring - Achieving
the Extraordinary*

Melbourne Health Environmental Report

2012-13

Melbourne Health Environmental Report

Hospitals have a large carbon footprint, with public hospitals and health care facilities accounting for about 60 per cent of the Victorian Government's energy bill.

In order to minimise its carbon footprint, Melbourne Health aims to be a leader in environmental sustainability within the Victorian healthcare sector by improving resource efficiency, achieving greener facilities where practical and embed sustainability in business practices.

Our Strategic Plan includes a commitment to 'promote environmental sustainability' and the Melbourne Health 'Think Green' Strategy (2011-2015) introduces a 'Think Green' vision to be recognised as an industry leader in environmental sustainability. This vision further encapsulates our clear desire to minimise our impact on the environment and reduce the greenhouse gases we produce. By thinking green, Melbourne Health aims to develop a culture of caring for the environment, which is supported by the actions and initiatives of both the organisation and our people.

In previous years, Melbourne Health has proudly reported our environmental initiatives and achievements in our Annual Reports. In accordance with Department of Health guidelines, we are changing the format of our public environmental reporting to encompass a more data based approach.

Financial Year 2012-13 has been designated as our baseline year for environmental data collection and future environmental reports will compare our achievements to this baseline. This year's report covers Melbourne Health's Royal Melbourne Hospital's City and Royal Park Campuses. We are planning to roll in our other sites, such as NorthWestern Mental Health and our aged care facilities, on a gradual basis as data becomes available.

Melbourne Health has set targets in our Environmental Management Plan to improve environmental performance, in line with the priorities of our 'Think Green' strategy of *driving a 'Think Green' culture and improving resource efficiency, focusing on waste management*. We are working with our waste management suppliers to standardise reporting across all of our sites. Melbourne Health is also reviewing our utilities data base to ensure better functionality, accuracy and to add environmental reporting features. A robust data set will enable us to accurately measure our environmental performance and to develop targeted initiatives to reduce our environmental footprint.

We look forward to reporting on our environmental achievements in future years.

Royal Melbourne Hospital – City Campus

Energy consumption

Total energy consumption by energy type (GJ)	Year 1
Electricity (Grid)	42,032
Electricity (Cogenerated)	65,332
Natural gas and LPG	89
Other energy types (e.g. steam, diesel)	64,698
Total (gigajoules)	172,151

Normalised energy consumption	Year 1
Energy per unit of floor space (GJ/m ²)	1.51
Energy per occupied bed days (GJ)	0.71
Energy per separations (GJ)	1.93
Energy per patients treated (GJ)	0.37

Underground multi-level car park (26,800 m²) not included in floor space

Greenhouse gas emissions

Total greenhouse gas emissions (tonnes CO ₂ e)	Year 1
Scope 1	3,319
Scope 2	25,436
Total	28,755

Normalised greenhouse gas emissions	Year 1
Emissions per unit of floor space (kgCO ₂ e/m ²)	251
Emissions per occupied bed days (kgCO ₂ e)	118
Emissions per separations (kgCO ₂ e)	322
Emissions patients treated (kgCO ₂ e)	62

Water consumption

Total water consumption by type (kL)	Year 1
Potable water	188,042
Re-used / recycled water	
Total	188,042

Normalised water consumption	Year 1
Water per unit of floor space (kL/m ²)	1.64
Water per occupied bed days (kL)	0.77
Water per separations (kL)	2.10
Water per patients treated (kL)	0.41

Water re-use and cycling	Year 1
Re-use / recycling rate (percentage)	

No metering available for re-used/recycled water

Waste generation

Total waste generation by type (Tonnes)	Year 1
Clinical waste	443
General waste	864
Recycled waste	431
Total	1,738

Normalised waste generation	Year 1
Waste per occupied bed days (kg)	7.14
Waste per separations (kg)	19.45
Waste per patients treated (kg)	3.76

Waste recycling	Year 1
Waste recycling rate (percentage)	25%

Clinical waste does not include Sharps, Sharps weight data not available.

Royal Melbourne Hospital – Royal Park Campus

Energy consumption

Total energy consumption by energy type (GJ)	Year 1
Electricity	13,444
Natural gas and LPG	17,302
Other energy types (e.g. steam, diesel)	19
Total (gigajoules)	30,765

Normalised energy consumption	Year 1
Energy per unit of floor space (GJ/m ²)	1.21
Energy per occupied bed days (GJ)	0.59
Energy per separations/patients treated (GJ)	9.95

Royal Park Campus does not offer emergency department or outpatient services. Normalising factors of separations & patients treated are therefore equal.

Greenhouse gas emissions

Total greenhouse gas emissions (tonnes CO ₂ e)	Year 1
Scope 1	889
Scope 2	4,444
Total	5,333

Normalised greenhouse gas emissions	Year 1
Emissions per unit of floor space (kgCO ₂ e/m ²)	210
Emissions per occupied bed days (kgCO ₂ e)	102
Emissions per separations/patients treated (kgCO ₂ e)	1,725

Royal Park Campus does not offer emergency department or outpatient services. Normalising factors of separations & patients treated are therefore equal.

Water consumption

Total water consumption by type (kL)	Year 1
Potable water	22,738
Re-used / recycled water	
Total	22,738

Normalised water consumption	Year 1
Water per unit of floor space (kL/m ²)	0.9
Water per occupied bed days (kL)	0.43
Water per separations/patients treated (kL)	7.36

Water re-use and cycling	Year 1
Re-use / recycling rate (percentage)	

No metering available for re-used/recycled water.

Royal Park Campus does not offer emergency department or outpatient services. Normalising factors of separations & patients treated are therefore equal.

Waste generation

Total waste generation by type (Tonnes)	Year 1
Clinical waste	18
General waste	210
Recycled waste	8
Total	236

Normalised waste generation	Year 1
Waste per occupied bed days (kg)	4.51
Waste per separations/patient treated (kg)	76.22

Waste recycling	Year 1
Waste recycling rate (percentage)	3%

Royal Park Campus does not offer emergency department or outpatient services. Normalising factors of separations & patients treated are therefore equal.

Incomplete recycled waste data due to multiple contractors. No weight data available for Sharps.