

REVISED PUBLIC REPORT

Part 1 - Corporation details

Period to which the report relates

Start Period

1 July 2012

End Period

30 June 2013

Controlling corporation

Insert the name of the controlling corporation exactly as it is registered with the EEO Program.

Metropolitan Health Service (MHS)

Table 1.1 - Major changes to corporate group structure or operations

Table 1.1 – Major changes to corporate group structure or operations in the last 12 months

Corporate

There have been no major changes to the Corporate Group Structure in the last 12 months.

Operations

In summary, at the end of this reporting period, the MHS has achieved the completion of full energy audits for the following sites:

- Sir Charles Gairdner Hospital
- Osborne Park Hospital
- King Edward Memorial Hospital
- Graylands Hospital
- Kalamunda Hospital
- Dental Health Services (Mt Henry)
- Fremantle Hospital
- Bentley Hospital



- Lockridge Community Centre
- Rockingham Hospital
- Armadale Kelmscott Hospital
- Murray District Hospital

Declaration

Declaration of accuracy and compliance

The information included in this report has been reviewed and noted by the board of directors and is to the best of my knowledge, correct and in accordance with the *Energy Efficiency Opportunities Act 2006* and Energy Efficiency Opportunities Regulations 2006. All opportunities have been assessed to a level of accuracy that is commensurate with the financial investment required for implementation.

PROFESSOR BRYANT STOKES

A/Director General
Department of Health
Western Australia

Date: 23/12/2013

Part 2 - Assessment outcomes

It is compulsory to complete Tables 2.1 to 2.3 for each entity (subsidiary, business unit, key activity or site) that has been assessed.

Table 2.1 – Assessment details

Name of entity	Metropolitan Health Service	
A. Total corporate energy use in the last financial year (2012/13)	1,043,899	GJ
B. Total energy use covered by assessments	835,573	GJ
C. Total percentage of energy use assessed (B ÷ A) x 100	80	%

Description of the way in which the entity carried out its assessment:

The energy assessments involved detailed investigation of key energy using buildings, systems and equipment and discussions with staff. This included identification of current configuration of major energy consuming plant items and identifying opportunities with a feasible (less than 15 years or the life of the plant) payback period for future, more detailed analysis as require.

Table 2.2 - Energy efficiency opportunities identified in the assessment

Status of opportunities identified SIR CHARLES GAIRDNER HOSPITAL		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	5	282
	Not to be implemented		
Outcomes of assessment	Total identified	5	282

Status of opportunities identified KING EDWARD MEMORIAL HOSPITAL		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	7	744
	Not to be implemented		
Outcomes of assessment	Total identified	7	744

Status of opportunities identified OSBORNE PARK HOSPITAL		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	8	426
	Not to be implemented		
Outcomes of assessment	Total identified	8	426

Status of opportunities identified GRAYLANDS HOSPITAL		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	10	2,722
	Not to be implemented		
Outcomes of assessment	Total identified	10	2,722

Status of opportunities identified KALAMUNDA HOSPITAL		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	4	267.6
	Not to be implemented		
Outcomes of assessment	Total identified	4	267.6

Status of opportunities identified DENTAL HEALTH SERVICES (MT HENRY)		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	6	354
	Not to be implemented		
Outcomes of assessment	Total identified	6	354

Status of opportunities identified ROCKINGHAM HOSPITAL		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	11	81
	Not to be implemented		
Outcomes of assessment	Total identified	11	81

Status of opportunities identified ARMADALE KELMSCOTT HOSPITAL		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	10	548
	Not to be implemented		
Outcomes of assessment	Total identified	10	548



Status of opportunities identified		Total Number of opportunities	Total estimated energy savings per annum (GJ)
MURRAY DISTRICT HOSPITAL			
Business response	Implemented		
	Implementation commenced		
	To be implemented		
	Under investigation	9	376
	Not to be implemented		
Outcomes of assessment	Total identified	9	376

Table 2.3 - Details of significant opportunities identified in the assessment

It is compulsory to report at least 1 example of a significant opportunity for improving the energy efficiency for the controlling corporation that has been identified in assessments. If a corporation has structured assessments to relate to business units or key activities they should report one significant opportunity for each of those entities to which the assessment applies.

Description of opportunity No. 1	Type of information to be covered
<u>Sir Charles Gairdner Hospital</u> Adding in of presence detection sensors to low occupancy areas such as plant rooms, stores and tea rooms.	Equipment type: Detection Sensors
	Business response: Under Investigation
	Energy saved (GJ): 65
	Greenhouse gas abated (CO2-e): 16,000
	\$ saved: \$3,400.00
Payback period: 3 years	
Description of opportunity No. 2 - voluntary	Type of information to be covered
<u>King Edward Memorial Hospital</u> Modifications to heat recovery well in Plant-room B Block	Equipment type: Heat Recovery Well
	Business response: Under Investigation
	Energy saved (GJ):72
	Greenhouse gas abated: 18,400kg CO2
	\$ saved: 18,400.00
Payback period: 2 years	
Description of opportunity No 3 - voluntary	Type of information to be covered
<u>Osborne Park Hospital</u> Adding in of presence detection sensors to low occupancy areas such as plant rooms, stores and tea rooms.	Equipment type: Detection Sensors
	Business response: Under Investigation
	Energy saved (GJ): 65
	Greenhouse gas abated (CO2-e): 16,000
	\$ saved: \$3,400.00
Payback period: 3 years	



Description of opportunity No 4 - voluntary	Type of information to be covered
<u>Graylands Hospital</u> Replace DX units with VRF systems.	Equipment type: Mechanical
	Business response: Under Investigation
	Energy saved (GJ): 61
	Greenhouse gas abated: 16,000 kg CO2
	\$ saved: \$3,300.00
	Payback period: 3 years

Description of opportunity No 5 - voluntary	Type of information to be covered
<u>Kalamunda Hospital</u> Replace DX units with VRV systems.	Equipment type: Mechanical
	Business response: Under Investigation
	Energy saved (GJ): 12
	Greenhouse gas abated: 3,200 kg CO2
	\$ saved: \$12,000
	Payback period: 6-10 years

Description of opportunity No 6 - voluntary	Type of information to be covered
<u>Dental Health Services (Mt Henry)</u> Adding in of presence detection sensors to low occupancy areas such as plant rooms, stores and tea rooms	Equipment type: Detection Sensors
	Business response: Under Investigation
	Energy saved (GJ): 65
	Greenhouse gas abated (CO2-e): 16,000
	\$ saved: \$3,400.00
	Payback period: 3 years



Description of opportunity No 7 - voluntary	Type of information to be covered
<u>Armadale Kelmscott Hospital</u> Install Variable Speed Drives onto Chilled Water Pumps	Equipment type: Mechanical
	Business response: Under Investigation
	Energy saved (GJ): 86
	Greenhouse gas abated: 22,300 kg CO2
	\$ saved: \$3,600.00
	Payback period: 2 years

Description of opportunity No 8 - voluntary	Type of information to be covered
<u>Murray District Hospital</u> Replace Wing 2 DX systems with VRV systems.	Equipment type: Mechanical
	Business response: Under Investigation
	Energy saved (GJ): 13
	Greenhouse gas abated: 3,200 kg CO2
	\$ saved: \$12,000
	Payback period: 6-10 years