

# **SWINBURNE UNIVERSITY EMS**

## **- EXECUTIVE GROUP MANAGEMENT PLAN -**

**Responsible Manager:** Director Facilities and Services

**Subject:** EMS: Management Plan

**Reference:** February 2012

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### **Purpose**

This Executive Group Management Plan sets the direction for achieving Swinburne's Environmental Management Plan objectives and targets. The Action Plan details the actions, timelines, resources and responsibilities necessary to achieve these objectives and targets.

### **Objectives**

Swinburne will aim to:

- ✓ Minimise our Carbon Footprint and our impact on the environment
- ✓ Reduce use of energy and the subsequent production of greenhouse gas emissions.
- ✓ Encourage, support and increase the use of the sustainable modes of transport and alternative modes of conducting meetings and lesson/lecture delivery.
- ✓ Maximise the environmental benefits of our purchasing decisions and minimise environmental harm.
- ✓ Minimise the volume of waste to landfill.
- ✓ Proactively manage our property and grounds following sustainable best practice principles
- ✓ Maximise water efficiency and reduce our reliance on mains water supply

### **Targets**

The University's three main contributions to greenhouse emissions are our: energy consumption, travel, (particularly our air travel) and waste to land fill. The overarching objectives are therefore targeting these areas in order to achieve maximum outcomes in the shortest time. In keeping with State Government targets a Water target has also been included.

The Executive Group **Targets** for 2012 are:

- Water consumption, excluding student residences, 2.5 kL (or less) per EFTSL (2.4kL per EFTSL in 2011)
- Electricity and Gas (Energy) consumption, excluding student residences, 5.3 GJ (or less) per EFTSL (5.2 GJ per EFTSL in 2011)
- Air Travel – Target = 30,000,000 Km (or less) ( 30,737,389 in 2011)
- Vehicle Travel (inc. taxis) = 1,280,000 (or less) (1,281,139 in 2011)
- Recycling – 219 tonnes, including paper and cardboard (240 tonnes in 2011)
- Landfill – 660 (788 tonnes in 2011)
- Restrict the University's overall carbon footprint to 53,500 Tonnes (TBA tonnes in 2011)

## Background

This Management Plan forms part of the Swinburne University EMS. Energy, Grounds and Buildings, Waste, Procurement, Transport and Water management have been identified as significant aspects for Swinburne, with many of our activities and operations contributing to Victoria's Carbon Emissions.

## Achievements to date

Swinburne has already commenced or implemented a significant number of initiatives across the identified areas. For example:

- Installed waterless urinals and water saving urinals
- Installed dual flush toilets
- Significant water harvesting across the University
- Decommissioned mains water irrigation systems
- Installed T5 lighting across the University
- Upgraded Building management Systems (BMS)
- Installed lighting control systems
- Installed window tinting to reduce heat transfer
- Installed push button timer controls for HVAC
- Energy recovery devices. I.e: heat wheel, economy HVAC cycles
- Rolling out auto-shutdown of PC's not in use
- ITS purchasing energy efficient LCD monitors
- Installed solar panels and wind generation devices
- Green Star rating considered in new works
- Sustainable features incorporated into building works as appropriate Recycling furniture by recovering chairs and replacing laminex on desks
- Green Office Program
- Swinburne Press has included sustainable criteria in new Print Supplier Contracts
- Reduced the pool fleet to 4 cylinder, Hybrid and 1 gas powered 6 cyl choice
- Installed bike storage facilities
- Commenced video conferences with Sarawak
- Installation of Co-mingle stations
- Significant paper and cardboard recycling
- Green Kitchen/Food Organics Program
- Recycling of unwanted furniture and equipment
- Total recycling of fluorescent tubes
- Installed LED external lighting on Hawthorn campus (test sites)
- Increased water harvesting at Croydon, Wantirna and Hawthorn
- Installed additional comingle stations
- Reintroduced Organic waste collection

## Review of Management Plan

As part of our commitment to continual improvement, this Management Plan will be reviewed on an annual basis by the Executive Group. In particular, this review will focus on the objectives and targets and an update of the Action Plan actions and timelines.

## Approval

Name

Signature

Title

Date

## Revision History

Rev. No.	Rev. date	Revised by	Comment
1			
2			
3			

## Executive Group Agreed Targets for 2012

No.	Environmental Activity	Target	Project Type	Campus / Facility	Responsible Personnel	Budget	Timeline	Additional Comments
1	Communication Education	Develop a communications package to educate staff about reducing energy consumption and encouraging recycling	Behaviour Change	All	FSG	TBC	Dec. 2012	
2	Energy	5.4 GJ or less per EFTSL	Infrastructure, Behaviour Change	All	FSG / All Departments	FSG	Dec. 2012	
3	Travel	Air travel to be no more than 30,000,000 km.  Vehicle (fleet and taxi) travel to be no more than 1,280,000 km	Infrastructure, Behaviour Change	All	FSG / All Departments	CMP (Teleconference facilities)	Dec. 2012	
4	Waste	Recycling – 219 tonnes Landfill – 660 tonnes	Infrastructure, Behaviour Change	All	FSG / All Departments	FSG	Dec. 2012	
5	Water	2.6 kL per EFTSL	Infrastructure, Behaviour Change	All	FSG / All Departments	FSG	Dec 2012	