

SWINBURNE UNIVERSITY EMS

- ENERGY MANAGEMENT PLAN -

Responsible Manager: Associate Director, Operations and Services

Subject: EMS: Management Plan

Reference: February 2012

Purpose

This Energy Management Plan sets the direction for achieving Swinburne's energy 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:

- Reduce use of energy and the subsequent production of greenhouse gas emissions.
- Minimise our Carbon Footprint and our impact on the environment

Target

Swinburne's energy targets are:

- Electricity and Gas (Energy) consumption, excluding student residences, 5.3 GJ per EFTSL for 2012 (5.2 GJ per EFTSL in 2011)

Background

This Management Plan forms part of the Swinburne University EMS. Energy management has been identified as a significant aspect for Swinburne, with many of our activities and operations, such as building heating and cooling, lighting and travel, contributing to climate change and other associated environmental impacts.

Achievements to date

Swinburne has already commenced a number of initiatives that reduce our use of energy across our facilities and operations. These include:

- Rolling out T5 lighting across the University
- Upgraded BMS
- Installed lighting control systems
- Installed window tinting to reduce heat transfer
- Installed push button timer controls for HVAC
- Energy recovery devices. Ie: heat wheel, economy HVAC cycles
- Implemented scheduled maintenance program for HVAC to keep equipment operating at peak performance
- Implemented program to update boilers across the University
- Rolling out auto-shutdown of PC's not in use

- ITS purchasing energy efficient LCD monitors
- Installed solar panels and wind generation devices
- Consolidated after hours programs to reduce building usage
- Green Star rating considered in new works
- Sustainable features incorporated into building works as appropriate
- Installed PVC's as a component of training programs
- Installed exterior LED lighting as a trial in some areas

Review of Management Plan

As part of our commitment to continual improvement, this Management Plan will be reviewed on an annual basis by the Director of Facilities and Services and the EMS Coordinator and communicated as part of the EMS update to 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			

Action Plan

No.	Action	Description	Project Type	Campus / Facility	Responsible Personnel	Budget	Timeline	Additional Comments
1	Communications Program	Develop a communications package to educate staff about reducing energy use. Distribute information re video and teleconference opportunities at Swinburne	Behaviour Change	All	EMS Coordinator	Employee time	Dec. 2012	Should be linked to the communications programs in other environmental management plans
2	Buildings (heating and cooling)	Audit rooms for personal heaters/coolers. Review BMS settings	Behaviour Change	All	Department Managers etc	Employee time	Dec. 2012	
3a	Buildings (Lighting)	Review opportunities to reduce lighting to minimum levels and to better control lighting through sensors and other technologies. Explore LED lighting replacement options	Infrastructure /assets	All	EMS Coordinator	Consultant	Dec. 2012	
3b	Buildings (Lighting)	Have Security turn off lights etc as they patrol after hours.	Behaviour Change	All	Security		Dec. 2012	
4	Improve efficiency of equipment.	Where possible operate high energy consumption equipment during off-peak periods	Infrastructure/Assets	All	EMS Coordinator; Heads of Schools; Faculty Managers		On-going	