

Taking back the power

Better management of Lincoln University's power needs together

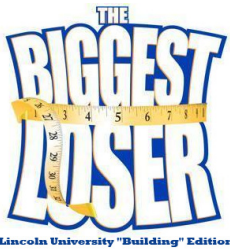
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Lincoln University
Te Whare Wānaka o Aoraki
CHRISTCHURCH • NEW ZEALAND

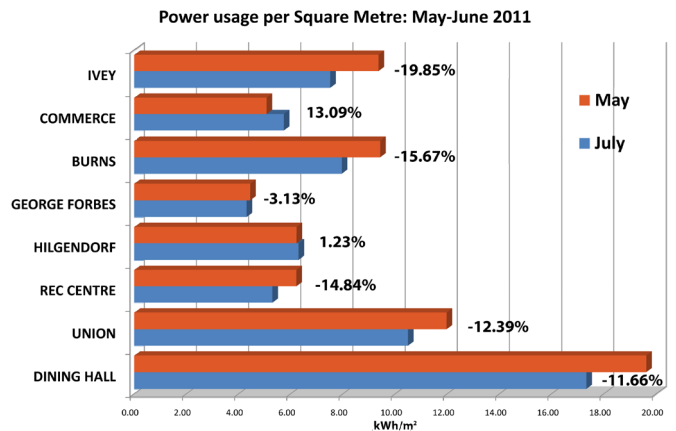
New Zealand's specialist land-based university

Ivey takes a clear lead!



In what has certainly been the coldest month of the year so far, it's great to see nearly all buildings making significant savings in their energy consumption per square metre over the past two months. Congratulations to Ivey - their power consumption has dropped two months in a row with a total drop of 19.85% of their power usage per square metre - well done!

But it's not an All Blacks vs Fiji lead, so come on the rest of you and remember to keep those lights off, keep the warmth in and keep the cold out! And definitely - unless organised through Lincworks - keep those portable heaters off campus - they can cost a fortune to run! Keep saving!



When do the PC's sleep?



A number of people have written in querying the power usage of PC's overnight so it's a good time to inform people of what really

happens to your PC when you go home at night!

ITS have - as part of the Windows 7 roll-out - implemented power savings policies on nearly all PC's which sees them go into sleep-mode after four hours of inactivity; providing a power saving of nearly 80%!

ITS still has automated tasks to run daily however, so to take advantage of cheaper power rates, these are now run at 5am as a 'wake-up' task so it's important to still keep

your PC on when you leave - see the table below for power usage.

In summary, it's a trade off between keeping the PC's healthy and reducing the power usage but rest-assured, we are almost at the most cost-effective point to keep everybody happy - we'll keep you updated on the progress.

Device	Powered Off	Sleep Mode	Powered On (idle)
Cyclone desktop PCs			
MB8000 series (new)	11 W	13 W	~60 W
MB6000 series (old)	9	9	~48
Monitors			
Cyclone 19" LCD Monitor			
100% brightness	0	0	~32
50% brightness	0	0	~22
Cyclone 17" CRT Monitor			
100% brightness	0	0	~53
50% brightness	0	0	~53

A small reminder...

Please remember that while we strive to keep everybody happy on campus, keep in mind that we are all individuals and that means we all like a different level of heat!

Why does the heating turn off?

This would be our most common complaint so just to re-iterate, there are two main reasons why the heating turns off: we are in a 'round robin' situation due to a control period being enforced by Orion or the BMS is fooled into thinking it is warmer than it is - mainly when we have very cold mornings followed by warm ones.

Building updates

Many of you will have noticed the 'building art' on George Forbes recently - otherwise known as scaffolding! We appreciate that the scaffolding has made life interesting for all those in this building, and we want to reassure you that we have made every effort to compensate for the lack of sunlight from a heating perspective.

Some isolated 'cold' areas in Burns and Hilgendorf have been identified and are being fixed and the non-working sensors in Ivey have been re-calibrated - enjoy the warmth!

As always, please contact your Lincworks team with any concerns over heating in your building.

Top 5 things to know...

SOLAR HEATING

What is Solar Heating?

Typically people are referring to Solar Hot Water (SHW) - roof panels designed to heat water - when talking about 'solar'. Solar Electricity - less common but becoming more and more talked about - is the use of photovoltaic cells - PV's - to convert solar energy into electricity

How does SHW work?

SHW systems range from simply pumping the water you want to heat - hot water cylinder, pool etc. - around black plastic tubes or panels on your roof (open loop) to pumping a glycol (antifreeze) solution around specialised roof panels which, once heated, heats your water via a heat transfer system (closed loop).

What types of panel are there?

There are two main types:

- Flat Plate: the liquid is pumped through thin metal tubes inside a glass rectangle.
- Evacuated Tube: special metal rods sit inside thermos like glass tubes which get very hot, very quickly and transfer that heat to your water for circulating.

Which is better?

The debate rages! While flat-plate models are often cheaper and more efficient in full sun-light than evacuated tubes, evacuated tubes collect heat for a longer period each day - useful for short, southern winters day and they can even work on cloudy days.

What's the right system for me?

Choosing the right system depends on where the collector can be mounted, summer & winter weather, which way your house faces and whether your existing system can be adapted for SHW - check out [EECA](#) or [Consumer](#) for more info!

Weather

	Fri Aug 5	Sat Aug 6	Sun Aug 7	Mon Aug 8	Tue Aug 9	Wed Aug 10	Thu Aug 11
summary	Mostly sunny	Mostly sunny	Showers	Mostly sunny	Mostly sunny	Frost then sunny	Heavy rain
maximum	11°C	15°C	14°C	10°C	10°C	10°C	10°C
minimum	1°C	6°C	0°C	1°C	-1°C	0°C	2°C

Email us with your comments, questions and suggestions! clerk.lincworks@lincoln.ac.nz