After Hours Energy Audit Report

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Based on observations made during a walk around the department 9-11pm Tue 26/04/2016.

Department grade: **B- (Promising)**

Good switch-off behaviour:	Poor/Mixed switch-off behaviour:
• All equipment with booking system in evidence • Hot plates, water baths, shakers and flow hoods • All fume cupboards had their sashes pulled down low. • Vast majority of computer screens in sleep mode. • Computers that don't run models overnight.	• Shared group PC workstations • Small benchtop equipment such as pH meters, scales • Centrifuges and PCRs left on idle • Computers attached to equipment

Item left on	Number left on in department
Centrifuges on idle	16
Computer screens not in sleep mode	14
PCR machines on idle	9
Shared group PC workstations	8
Scales	8
pH meters	4
Speakers	3

Conclusion

If the equipment is **hot, noisy or bright** when on, switch-off behaviour across the department tends to be good. Equipment with booking systems in place were much more likely to be switched off than similar equipment not on booking systems (e.g. PCR machines).

Switch-off behaviour in offices was encouraging, with the majority of computers sleeping peacefully. Computers in labs either running equipment or acting as shared workstations were normally left on. In groups that are known to run models on their computers overnight, more were computers were left on, but it isn't possible to tell whether they had to be.

At least one piece of benchtop equipment had been needlessly left on in every lab, **so everyone can improve!** The things that could and should have been switched off varied between groups.

Switching off the item to standby is good, but switching it off at the wall is better. Last year 2,286 items were PAT tested in the building. If these were left on standby out of work hours pulling just 5W each, together they would cost the department over £10,000 in wasted electricity every year.

Tips for Improvement:

• Discuss 'last-one-out' procedure in your next lab meeting.
• Switch it off at the wall if you can.
• If you don't have one already, consider a booking system for your shared equipment, so others can leave it on or switch it off in confidence.
• Chat with Martin about how your lab performed and what you should target in particular.