

Beginner's Guide to Energy Efficient Lighting

Lighting upgrades can be relatively straightforward, and offer rapid returns on investment, ongoing operational savings, and reduced maintenance. In addition, many business environments are over-lit compared to the levels recommended by Australian Standard 1680.

The [Energy Audit Lighting Toolkit](#) is a comprehensive tool to help you understand your current lighting status and what you can do to improve it. It offers many helpful tips and a guide to forming an action plan.

Quick Guide

Embed "Switch-Off" into your culture

- Turn-off equipment whenever there is an opportunity, including lights
- Switch-off at the wall – especially overnight
- Automate the switch-off process wherever viable
- Give staff a reason to switch-off – educate of the importance and appoint a switch-off monitor
- Identify what should not be left on but often is
- Provide reminders in the form of stickers, signs, checklists, posters, etc.
- Identify with a sticker what should be left on all the time i.e. fridges, hot water units
- Ensure equipment with automatic shutdown is doing so at required times
- Make it easy to shutdown standby loads by allowing access to power points, using remote controls, or using a centralised system to shut down

De-lamp

- Measure existing illumination levels (borrow a lux meter)
- Compare illumination with recommended standards (see page 7: [Energy Audit Lighting Toolkit](#))
- De-lamp over illuminated areas (let maintenance know the globes are not to be replaced)

Upgrade to Energy Efficient Lamps

- Perform an audit of existing lighting and wattage
- Identify which lights can be swapped over directly to LEDs and which need whole fitting replacements
- Create a lighting changeover action plan to complete at luminary end of life

Install Sensors

- Have a lighting specialist assess business needs
- Install sensors in areas of highest benefit

Resources

- [Lighting Energy Audit Toolkit](#)
- [Lighting Control Energy Audit Toolkit](#)
- **CitySwitch Workbook** - Section 1 Lighting – Quick Guide (*hardcopy available from CitySwitch team*)
- [The 20 Step Guide to Cutting Energy Bills in Your Business](#) – John Dee
- [NABERS Lighting Calculator](#) – understanding the cost of lighting upgrades
- [NABERS Energy Management Guide for Tenants](#)
- [Office of Environment and Heritage Energy Efficient Lighting Fact Sheet](#)

Case Studies

- [ANZ Staff Floor Wars](#) – internal engagement to reduce energy and encourage recycling
- [Exergy Australia: 6 star NABERS Tenancy Rating – It's easier than you think](#)
- [City of Unley Case Study](#)

Incentives

City of Adelaide Sustainability Incentives Scheme – LED Lighting Upgrade

Upgrades of non-LED light fittings with LED light fittings in eligible properties are eligible for 30% of the total installed cost up to \$30 per fitting and a maximum of \$1,000. [Details and eligibility](#).

Green Industries SA (GISA) Funding

Businesses undertaking energy, waste or water efficiency upgrades may be eligible to submit an application under the Resource Efficiency and Productivity (REAP) program. Visit the [GISA website](#) for more details.

NABERS Energy tenancy rating

Benchmark your office energy use. City of Adelaide sponsored rebate of 50% up to a maximum of \$2,500 is available to office tenants participating in the CitySwitch Green Office program who undertake an accredited NABERS Energy tenancy rating. [Details and eligibility](#).

[Retailer Energy Efficiency Scheme \(REES\)](#) is a South Australian government initiative that requires energy retailers to help households and businesses save on energy use and costs, and lower their greenhouse gas emissions.