

# e+ architecture

## *46% energy use reduction*

e+ architecture delivers a wide range of projects to their residential, commercial and not-for-profit clients. Concerned about rising energy prices, but unsure about how to cut their energy costs, they sought out energy-efficiency information to identify action they could take to become more energy efficient.

The first step e+ architecture took was to get its team on board with behaviour changes such as turning off lights and switching off computers and printers at the end of the day. In the area of lighting, 50W halogen lights have been replaced by 35W halogens and motion sensors have been fitted to external flood lights. A 7-day timer has been fitted to the electric hot water system to turn off the element from between 4pm to 7am on weekdays and shut down all weekend.

They also installed a 1.6kW PV system on their roof to offset daytime electricity use and began purchasing 10% green power — electricity generated from renewable energy sources like sun, wind, water and waste. In stage two of e+ architecture's energy efficiency upgrade, MR16 halogens will be replaced with 10W LED lamps.

'As a result of these actions we reduced our energy bills over 12 months by 46%. That's a saving of \$2025.' Bryce Tonkin, e+ architecture

e+ architecture reduced energy costs by:

- turning off lights in areas not being used
- switching off computers and printers every night
- replacing 50W halogens with energy efficient 35W halogens

- Stage 2: replacing MR16 halogen lamps with 10W LED lamps
- installing motion sensors on external flood lights
- fitting a 7-day timer to the electric hot water system to turn off the element from 4pm to 7am on weekdays and shut down all weekend
- installing a 1.6kW solar PV system to offset daytime electricity use.