

*"BEEP showed us how we could reduce our carbon footprint through the implementation of relatively inexpensive and simple solutions, such as replacing existing fluorescent lighting with T5 lamps. In addition, this initiative encouraged us to further improve our water efficiency by installing flow restrictors on all taps at all our offices."*



**OFFICE ENVIRONMENT**

## **BUSINESS ENERGY EFFICIENCY PROGRAM**

The Blacktown Solar City Business Energy Efficiency Program gives participants the analysis they need to cut energy costs and carbon emissions in cost-effective, practical ways. BEEP lists energy saving opportunities with the estimated capital costs, energy savings, financial returns and carbon savings detailed in accordance with the Australian Standard. The Australian Government's Solar Cities program is a partnership between all levels of government, industry, business and local communities to trial sustainable energy solutions. Blacktown Solar City is one of seven Solar Cities established in key locations across Australia. BEEP is managed by Big Switch Projects Pty Limited.

## **BEEP PARTNER**

Teachers Credit Union

## **LOCATION**

Rooty Hill, NSW

## **COMPLETED**

2010



**Blacktown**  
solar city



**Big Switch**  
Projects™

## OUR CLIENT

Founded in 1966, Teachers Credit Union is one of the largest credit unions in Australia. Teachers Credit Union recognises that success cannot be measured just in terms of profits and growth, but how they engage with and support the community, and how they minimise their impact on the environment. As a credit union and a mutual organisation, Teachers Credit Union strives to ensure that corporate responsibility is firmly rooted in their values.

## BEEP FINDINGS

Teachers Credit Union occupies a two-storey free standing building, which was built in 1984. Operations consume an average of 458,807 kilowatt-hours per year. The review found a number of savings, which if all were implemented would equal nearly 49,000 kilowatt-hours of savings, an 11% reduction in total energy use a year based on 2009-2010 consumption.

## IDENTIFIED PROJECTS

Six energy efficiency initiatives were identified. These initiatives included installing timers on the air conditioning and implementing summer/winter set points, installing 7-day timers on vending machines and hot water units and Installing occupancy sensors in bathrooms. Previous water efficiency work had been completed however some small leaks were identified.

## THE BUSINESS CASE

The identified projects have an overall payback of less than 4 years. As electricity prices rise this payback period may prove conservative.

## BEEP HIGHLIGHT

The review highlighted our base energy consumption. This allowed us to address the issue which resulted in an energy reduction of 5%. Teachers Credit Union will continue to monitor our energy and water consumption at all our offices as part of our wider sustainability initiatives.

For more information please follow this link:

[www.bigswitchprojects.com.au/library.aspx](http://www.bigswitchprojects.com.au/library.aspx)

<b>CAPITAL INVESTMENT</b>	\$21,850
<b>ENERGY SAVINGS FORECAST</b>	\$5,700 per annum
<b>OVERALL PAYBACK</b>	4 years
<b>CARBON EMISSIONS SAVINGS</b>	52 tonnes CO <sub>2</sub> -e



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