

Opportunities business

FOR
YOUR



Alice Solar City can work with your business to help it become more energy efficient, more competitive and to reduce costs. Participation in our Commercial Services program will raise your profile as a leader in sustainability in the community. And, by using less energy and being more efficient with the energy that you do use, your business can **offset the power price increases coming into effect from 1 July 2009.**

Below are just some of the ways Alice Solar City can help you make your business energy efficient. A more detailed list and some business place scenarios can be found overleaf.

What if you don't own your business premises?

Alice Solar City can provide advice and funding to both tenants and building owners, for various energy efficiency and solar energy improvements, that can benefit both parties.

Workplace Lighting

Workplace lighting typically accounts for 20% of your power bill. It is also one of the easiest things to change in your workplace, so is a great place to start your energy efficiency drive. For example:

Replacing 20 halogen downlights with compact fluorescent or LED equivalents could save \$580 per annum.

Replacing 50 old style fluorescent tubes with 40 high efficiency 'T5' retrofit kits will save \$450 per annum.

Alice Solar City offers a 35% rebate off all lighting retrofits, making the payback period even more attractive.



Workplace Photovoltaic Power (PV)

Few things say "Green" to your customers as clearly as having panels on your roof converting the sun's energy into clean electricity.

And with rising energy prices, an investment in solar power will only improve in value over time.

Alice Solar City can provide advice on the right type of system for your business. We can also highlight potential financial rebates and incentives.



Workplace AC and Insulation



Air conditioning accounts for a massive 50% to 60% of the average commercial electricity bill. And yet many business premises have no insulation at all to help keep the summer heat out and the winter warmth in.

Ceiling insulation alone can save 20% of air conditioning costs. For a 200 square metre area, your business could save up to \$600 per annum. With Alice Solar City's financial incentives, the capital outlay would be under \$3,000.

If you shade or tint your sun-facing windows and fit proper seals to your doors you could make even bigger savings.

Workplace Solar Hot Water

The unsung hero of energy efficiency is the humble solar hot water system. Workplace water requirements vary according to the type of business you have.

The more hot water your business uses, the more you can save on your power bills by converting to solar hot water. These systems can pay for themselves in as little as 4 to 5 years.



Australian Government
Solar Cities

Call to find out how your business can benefit from the Alice Solar City Commercial Services program, contact Sam Latz, Commercial Services Manager on 8950 4352 or sam.latz@alicesolarcity.com.au. Visit our website: www.alicesolarcity.com.au

Which scenario best fits your business?

Hotel/Motel

The Cool Rest hotel wanted to investigate becoming cleaner, greener and more energy efficient. An Alice Solar City energy audit identified a number of energy saving opportunities:

- With funding from Alice Solar City, the hotel replaced an ageing and inefficient gas hot water system with a new solar boosted instantaneous gas system. **Incentive value: \$12,000.**
- Lighting in guest rooms was converted to high efficiency warm-toned fluorescent fittings. **Incentive value: \$300.**
- The rooves of the accommodation blocks were painted white to make a noticeable reduction in summer cooling costs. **Incentive value \$4,000.**

The payback on investment after their 35% rebate was three years, with savings of \$6,000 per annum and greenhouse gas savings of 10 tonnes pa from the hot water upgrade alone.

Retail Outlet

Widgets R' Us was concerned about the impact of the 18% electricity price rise. Their energy audit identified a number of large scale investment opportunities, but also simple changes to reduce energy costs:

- Air conditioning set-points were increased by two degrees, giving an estimated 15% reduction in air conditioning costs.
- Inefficient down-lights were replaced with a combination of compact fluorescent, metal halide and LED lighting. **Incentive value: \$1,000.**
- Insulation was installed in their ceiling space. **Incentive value: \$1,000.**
- New seals were installed on existing doors and windows. **Incentive value: \$100.**

Café

The owners of the Flatout Foccacia Café were looking for some simple ideas to cool down their preparation area without having to run their air conditioning at full pelt. Their energy audit identified some easy and effective energy efficient activities:

- The refrigeration compressor was moved from their cool room to an outside location nearby.
- A heat pump hot water system was installed to replace a gas storage unit, and now blows cool air into the kitchen area. **Incentive value: \$3,000.**
- Damaged door seals were repaired on fridge doors to reduce compressor run times. **Incentive value: \$200.**
- The sandwich press machines were upgraded to a fast warm up model, preventing them from running continuously.

It's about much more than just Solar

As you can see, there is a huge range of ways to improve energy efficiency and reduce costs in your business. Below are some more examples of measures that are generally eligible for funding through the Alice Solar City commercial program. Don't forget, you can also suggest an energy saving option that is unique to your business operation.

Hot Water

- Install solar hot water or a heat pump hot water system
- Retrofit solar boosting to an existing hot water system
- Insulate existing hot water piping
- Service for an existing solar hot water system
- Replace inefficient urns with insulated timer-controlled water units

Insulation and passive solar design

- Install bulk insulation and heat reflective foil in roof spaces
- Paint the roof white
- Ventilate ceiling space
- Retrofit wall insulation in walls
- Apply solar tint to unshaded windows
- Install double glazing
- Install external shading

Lighting

- Replace halogen down-light systems with energy efficient alternatives
- Upgrade fluorescent lighting
- Fit occupancy sensors on lighting
- Fit daylight sensors and timers on lighting
- Modify lighting switches and controls for unnecessary lighting
- Install skylights

Air conditioning and refrigeration systems

- Install absorption chiller solar air conditioning system
- Install high efficiency air-conditioning or refrigeration system (to replace or reduce the use of an existing inefficient system)
- Install air-conditioner economiser
- Review and optimise air-conditioning or refrigeration system
- Install or upgrade a building energy management control system (BMS)
- Install personal cooling fans in spaces with personal air conditioning controls
- Fit seals to doors and windows in air conditioned spaces
- Repair refrigerator and freezer door seals
- Fit air vents for evaporatively cooled spaces

Appliances and metering

- Install timers on office equipment
- Install sub-metering as part of an energy monitoring plan

Project Management and Facilitation

- Contract costs for 3rd party design and project management of energy efficiency upgrades