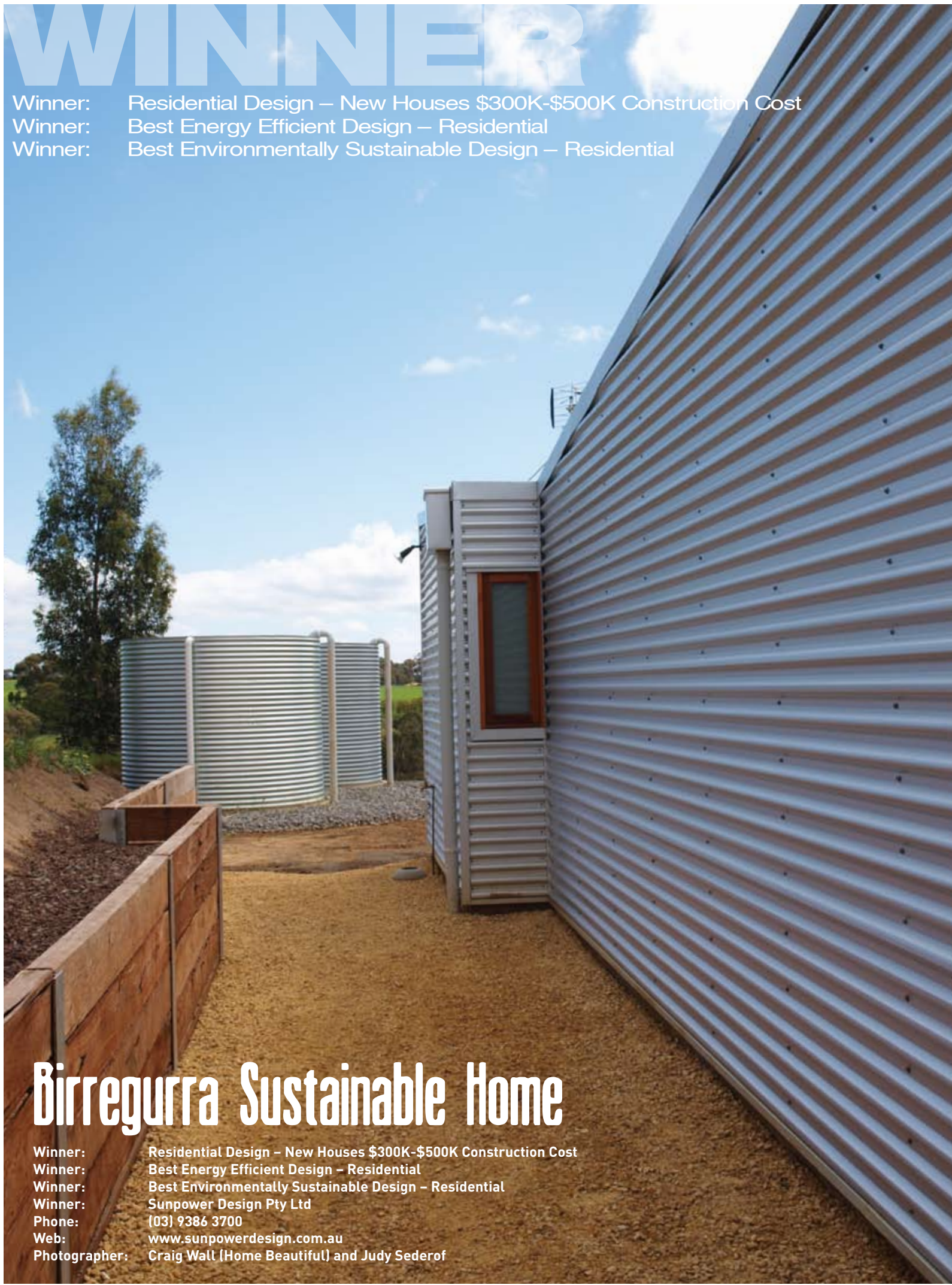


WINNER

Winner: Residential Design – New Houses \$300K-\$500K Construction Cost
Winner: Best Energy Efficient Design – Residential
Winner: Best Environmentally Sustainable Design – Residential



Birregurra Sustainable Home

Winner: Residential Design – New Houses \$300K-\$500K Construction Cost
Winner: Best Energy Efficient Design – Residential
Winner: Best Environmentally Sustainable Design – Residential
Winner: Sunpower Design Pty Ltd
Phone: (03) 9386 3700
Web: www.sunpowerdesign.com.au
Photographer: Craig Walt (Home Beautiful) and Judy Sederof



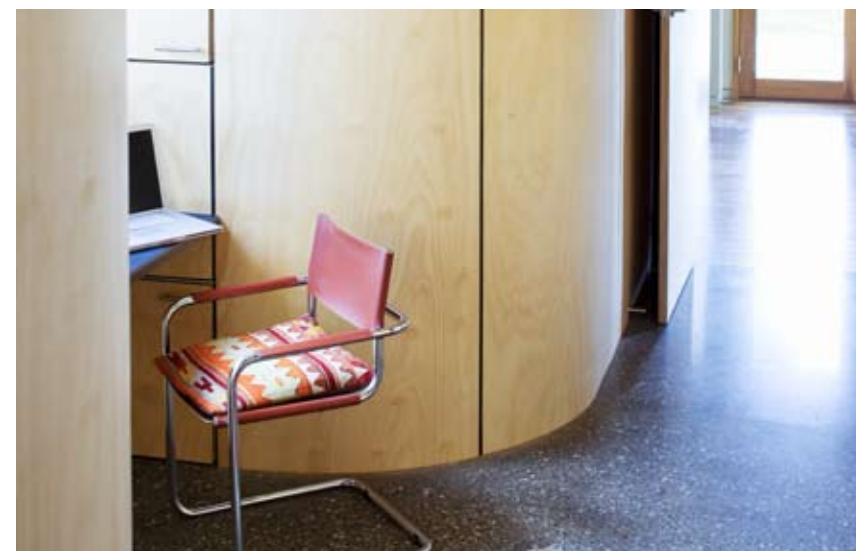
The distinctive windows follow the stairs and the silvertop cladding with exposed battens





The kitchen (above) and unique feature plywood lining to the curved hallway highlight the care that has been taken in the design process. The island bench is constructed from recycled jarrah and CaesarStone with the rear bench in stainless steel with integrated sinks.

The photovoltaic roof panels and evacuated tubes for solar hotwater are a feature of the northern facade (below). The power system is a 12 x 165 watt BP solar panels (1.98 kilowatts) and has been mounted on the roof structure and integrated into the house design



The clients asked Sunpower Design to design an exciting sustainable energy efficient home that was self-sufficient. The home needed to utilise the latest technology, while maintaining a sophisticated aesthetic.

The result is an 8-star rated, restrained and elegant house which exhibits a strong focus on sustainability. It features solar power and hot water, rainwater harvesting, grey-water recycling, low energy lighting and low toxicity finishes.

The organic forms and sweeping rooflines of the house are in harmony with the sloping site and surrounding landscape, and the use of corrugated steel and exposed timber externally make reference to the rural vernacular.

Natural colours and 'honest' materials are used throughout: floors are polished concrete and natural timber and plywoods with stainless steel accents are featured.

The house is contemporary and elegant, with a feeling of warmth and tranquility.

This project also won Best Energy Efficient Design – Residential and Best Environmentally Sustainable Design – Residential.

The dwelling is 85% self-sufficient over a 12-month period for power, water, heating and cooling, and was designed to flow with the contours of the land, minimising site cut. The thermal performance of the building is exceptional.

The dwelling incorporates an extensive use of recycled and reclaimed materials including the spotted gum stairs. The home also features a Biolytix waste water treatment system which handles all the black and grey water, and gives subsurface irrigation lines for garden watering. The system secretes its own ecosystem of microbes and composting worms

The external façade includes clever designed integrated shading blinds for sun protection in summer months.

The dwelling is a good example of sustainable building form, demonstrating you can design a functional, practical home which takes into account the landscape context and provides cost-effective resolutions.

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West Elevation with outdoor entertaining room featuring fireplace and barbecue enclosure