

Welcome to a Good Way of Living



BLUE ECO
HOMES 
SUSTAINABLE DESIGN: QUALITY LIVING

www.blueecohomes.com.au

“Blue Eco Homes ...environmentally-sound homes and building products that are sustainable, of superior quality, offering a healthy contemporary lifestyle.”

Our Vision & Purpose

As a family-owned & operated Australian company, Blue Eco Homes is committed to the environment, and to delivering the highest levels of building craftsmanship and client service.

The name “Blue Eco” refers to our company’s base in the Blue Mountains of NSW and our commitment to innovative ‘blue sky’ thinking.

Our focus is building environmentally-sound homes that are sympathetic to and supportive of the Australian environment, and that embody our client’s individual requirements and style.

In our constructions, we use building products and finishes that are eco-friendly. Our environmental commitment does not mean any reduction in quality – we use superior quality products in all our homes.

The Blue Eco Homes approach offers you a healthy, contemporary style of living in today’s world.



Our Background

With a 26-year career in the Australian building industry, Joe Mercieca established his own construction business in 2003 (Joe Mercieca Constructions P/L); and in 2010, Joe’s vision to build homes that are environmentally sustainable led to the establishment of a specialist environmental building arm – “Blue Eco Homes”.

Joe’s industry experience spans both residential and commercial construction, and all aspects of architectural work, from new houses to renovations and additions.

Joe has been involved in a number of award-winning projects.

He has been a Member of the Master Builders Association of NSW since 2000.



The Blue Eco Homes Difference

Key Benefits

An outstanding feature of the landmark Blue Eco Home is its energy rating of 7.5 stars.

The benefits in designing and building a Blue Eco Home, include:

- A higher overall level of comfort than standard housing
- Increased expectations of long-term physical and mental health, resulting from living in an eco-friendly and aesthetically pleasing environment
- Lower utility costs (electricity, gas, water, sewer charges) and, in some cases, the elimination of costs all together
- Living in a sustainable home is not only directly beneficial for your physical and financial wellbeing: it’s also an investment for your children and future generations.

Blue Eco Home Energy Star Rating

7.5* stars

*Nationwide House Energy Rating Scheme via Deani Energy Consultants

Design Process

A major aid in our design process is the use of 3-D design software, enabling you to view your future home from the outside and inside (as well as “walk-through” rooms) – all of which can be viewed on your desktop / laptop. This facilitates any changes during the design stage, giving you a real sense of what the living areas will look like and ensuring “no surprises” during the construction stage.

In designing a Blue Eco home, our core objectives include:

- A house as self-sufficient as possible in its use of energy, water re-use and waste water treatment
- The land block supports the design of the house
- Ongoing house maintenance is minimal
- The house is constructed from low-impact materials
- The house accommodates and enhances your lifestyle.

Sustainable Features

A Blue Eco Home offers a wide range of sustainable features that can be specifically tailored to your individual requirements – depending on your lifestyle, ongoing maintenance and budgetary needs.

The range of sustainable features included in our landmark display home in the Blue Mountains are set out below:

Landscaping

- Minimal clearing of vegetation for building works (and bushfire protection, where relevant)
- Where possible all cleared vegetation mulched on-site, and re-used for landscaping and remedial works.

Water Saving

- Rainwater is collected from all roofs, screened and stored in tanks around the house
- Water is used in a “whole of house” system (e.g. drinking water is UV-filtered).

Waste Water Treatment & Re-Use

- All waste water from the house - both black & grey water - is re-used via two systems
- Black water system (*Nova Clear*) irrigates lawns, gardens and can also be used for toilet flushing
- Grey water system (*Nova Grey*) is used for laundry, toilet flushing and general external use.



Passive Heating & Cooling

- The home is aligned along a West-East axis for maximum solar exposure and control
- Concrete slab floor (suspended, insulated) to absorb the sun's warmth during the day and release during the evening
- Glazing & overhangs are designed to allow maximum sun entry for winter heating and minimum entry of summer sun
- Larger openings to the North, smaller openings to South, to reduce winter heat loss
- Door & louvre window openings are placed to provide cross ventilation through rooms
- Highlight windows can be opened to allow venting of heat in summer
- Double glazing to all fixed windows to retain winter heat
- Roof, wall and floor insulation (customised to suit design and material requirements)
- Slab edge insulation.

Sustainable Features continued...

Building Materials

- Recycled steel beams used for sub-floor structure
- Concrete blocks used instead of bricks (lower embodied energy)
- Low formaldehyde HMR board is used for the fit-out
- All timber is plantation grown or recycled.

Lighting

- A combination of LED & CFL lighting to reduce energy consumption
- All lighting wired to CBus smart wiring system.

Active Heating & Cooling

- Hydronic in-slab heating system: hot water supplied by evacuated tube collectors (80%) and supplemented by gas boiler (20%)
- Ceiling fans (reversible) in living areas & bedrooms.

Paints & Floor Coverings

- Water-based, low VOC (volatile organic compound) paints are used throughout the house
- Tiled floors for thermal mass, low maintenance & low dust.

Windows & Glazing

- All windows - combination of fixed glazing (double glazed, Low E glass) and louvered panels
- Aluminium frames (low maintenance, recyclable).

Renewable Energy

- Photovoltaic (PV) system, grid interactive (providing most, if not all, of the home's electricity supply needs).



For more information on sustainable, quality living in a Blue Eco Home, please contact us on:

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