

# BUS TOUR 2023 - 15TH ECOLOGICAL HOME BICTON



## Ecological Home Bicton Nonie

The initial brief was to build a new, standalone approximately 200m<sup>2</sup> with solar hot water and most importantly allow the home owner to age in place.




The home is designed for universal access, with wide doorways and halls, no stairs, large hobless showers, and flush thresholds at doorways for ease of entry. Flick mixer taps and lever door handles are also included.

Built using insulated double brick, high levels of insulation and cross ventilation with internal thermal mass and strategically placed openings ensures an exceptional level of performance.

Tiled floors to the northern living area with optimal glazing, pelmets, heavy drapes, as well as controlled shading through the installation of removable shade sails allow and windows designed to permit cross flow ventilation mean the home can achieve ideal winter warming and summer cooling.

Water efficiency is enhanced with the installation of a rain water tank and water efficient appliances.



-  2 x BED, PLUS STUDY
-  2 x BATHROOM
-  2 x CAR GARAGE, PLUS STORE



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# SUSTAINABILITY FEATURES



Grid connected



## ENERGY EFFICIENCY

- Gas boosted solar hot water unit
- Energy efficient lighting
- Energy efficient appliances
- Draught proofing
- LED Lights throughout
- Natural daylight
- Solar Roof Vent
- Energy Efficient Appliances



## LANDSCAPING

- Edible Garden
- Drip Irrigation
- Pergola



## RECYCLED MATERIALS

- Limestone recycled for retaining

## WASTE REDUCTION

- Waste recycled and reduced during construction

## HEALTHY HOME

- Overhead cupboards to ceiling to reduce dust
- Cross flow ventilation
- Natural light and ventilation



## PASSIVE HEATING/COOLING

Passive solar designed home including

- Cross flow ventilation
- Thermal mass
- External shading
- Pelmet with curtains
- Blinds
- Deciduous planting

## ACTIVE HEATING/COOLING

Mechanical heating and cooling systems

- Ceiling fans throughout



## AGING IN PLACE/LIVABLE HOME

- 870 Wide doors throughout
- Hobless shower recess
- Lever handles to doors
- Semi recessed vanities
- Showerhead on rail
- Space around toilets for mobility aids
- Wide hallways
- Flush threshold to external areas



## WATER EFFICIENCY

- Rainwater tank ?L above ground
- Low flow shower heads and tapware
- Water Efficient Appliances





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