

# ECO HOME BUS TOUR 2022 OUR SDG HOUSE FOR PEOPLE AND PLANET

## Our SDG house for people and planet

Peter & Leigh

We have built a little house out the backyard to try and be more sustainable with energy, water and native habitat for birds and our two resident bobtail goannas.

We use half the energy we generate from our solar panels and have a water tank that feeds our toilet and cupboard laundry and a tiny creek when it overflows. We built the sustainable house under gum trees we planted when we moved in to the old front house in 1996. This home has been built to passive solar design principles maximising north facing windows for thermal mass, windows and doors are positioned to promote cooling summer breezes that are helped along by some carefully positioned ceiling fans. These windows produce a lot of natural light and ventilation making the home healthier to live in.

Designed for universal access we have incorporated larger doorways and hallways, lever style door handles and to reduce trip hazards we have hobless showers and flush thresholds.

We have a cute little attic and love the extra storage space it provides.



 2 x BED & STUDY

 1 x BATHROOM

 BIKE SHED



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# SUSTAINABILITY FEATURES



3.6kW Grid connected



## ENERGY EFFICIENCY

- Flat panel Solar Hot Water unit
- Energy efficient lighting
- Energy efficient appliances
- Draught proofing
- LED Lights throughout
- Natural daylight



## INSULATION

- Anticon under roof
- Ceiling batts - natural wool
- AirCell wall insulation



## LANDSCAPING

- Bee friendly
- Composting
- Edible plants and trees
- Water wise garden
- Local indigenous plants
- Permaculture and organic garden



## PASSIVE HEATING/COOLING

Passive solar designed home including

- Cross flow ventilation
- Thermal mass
- External shading
- Pelmet with curtains
- Deciduous planting
- Shade sails in summer
- Opening window in attic to purge hot air
- Living areas oriented towards north

## ACTIVE HEATING/COOLING

Mechanical heating and cooling systems

- Ceiling fans



## AGEING IN PLACE/LIVABLE HOME

- 870 Wide doors throughout
- Hobless shower recess
- Lever handles to doors
- Showerhead on rail
- Space around toilets for mobility aids
- Tapware accessible outside shower recess
- Wide hallways
- Flush threshold to external areas
- No steps inside home



## WATER EFFICIENCY

- Rainwater tank - above ground
- Low flow shower heads and tapware
- Toilet cistern uses hand-basin water



# SUSTAINABILITY FEATURES



## RECYCLED MATERIALS

- Paving and bricks for landscaping
- Logs and steppers
- Outdoor leaf seat from recycled materials

## WASTE REDUCTION

- Composting of food scraps
- Make jam, pickles etc
- Reuse and recycle where possible
- Swap with friends and neighbours to reduce waste
- Waste recycled and reduced during construction



## HEALTHY HOME

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



## Visit the virtual house tour

Griff interviewed Peter & Leigh for SHD 2021, use your mobile phone camera to see the YouTube video.



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