

SEE-Change Sustainable House tour list , 2017. Please note this is subject to alterations, so keep watch on our website for event listings.

2017	Description of house	Date of Tour
February		
Gundaroo	HIA Greensmart Energy Efficient house of the year for ACT/Southern NSW. This rural home tour showcases a simple but elegant home using German PassivHaus principles, with power supplied from an off-grid 9kW Solar system. This home has been built to a on passive-solar design, constructed of natural materials where possible, minimise the chemical toxicity of the building materials, and leverage appropriate levels of technology to reduce the ongoing operational costs for heating, cooling, power and water. All these design features mean that even on cold winter days the temperature of the home has not dropped below 19.2 degrees!	25/02/17 2-4pm
April		
Womboin	In an attempt to reduce its environmental impact, this owner-built and designed rural house was constructed as much as possible from recycled, upcycled and reused materials. The post and beam structure incorporates frame-work, cladding, fittings and appliances that were sourced from the tip, the tip shop, demolitions and freecycle. It even boasts a kitchen which cost less than \$50 to fit out! While modest in proportions, the home is spacious and just gorgeous.	9th April 10am-12am
Wright	Built in 2014, this beautiful energy efficient house in Wright is designed to keep warm in Canberra's cold winter. This is due to the design of it's unique external walls which are constructed from an Australian Patented Technology using multi-layer wall system. This technology is the first of it's kind in Canberra. The inventor of these walls will be present at the tour with a sample cross section of the external walls. Other sustainable features include a northerly orientation on its longest boundary, R9 polystyrene foam insulation in the roof, German double glazed windows throughout, Solid Timber flooring, Aeratron ceiling fans and beautiful Indian two layer cotton fabric curtaining throughout.	30th April 10-12
May		
Wright	This newly completed Light House Architecture & Science home has an EER of 8.2 stars. The compact 4 bedroom, 150m2 house is situated on a skinny 4052 block, with north to the street, but uses excellent solar passive and space efficient design to overcome space and aspect issues. It also includes some new (and old) technologies and ideas: <ul style="list-style-type: none"> · Cupolex recycled plastic dome concrete slab system – requires less concrete and creates an air void beneath the slab. R1 insulation was laid beneath the domes and against the vertical edge of the slab · Ventis Sub-Flow system (yet to be commercialised) – in cooler months this takes hot air from the roof space (which gets really hot even in winter due to Canberra's sunny days) and pumps it into the air void below the slab to provide extra heat to the floor · LUNOS Silvento Humidity Controlled Extraction Fans – switch on when humidity levels pass a programmed threshold · LUNOS e² – clever little energy recovery ventilation pairs x 3; ensure good indoor air quality when we close the house up over winter · Air tightness of 3.3 air changes per hour at 50Pa – 5 to 8 times better than most Canberra homes; achieved using standard construction methods ie. no special air barriers, just attention to detail and by minimising ceiling penetrations · Ceiling mounted far-infrared heater panels –one in each bathroom; the only heating in the house · Ceiling fans – the only form of cooling; haiku fans to living areas, cheaper types to bedrooms · Sanden heat pump – for hot water (to be compared to evacuated tube solar hot water systems on other Light House projects nearby · 20+ data loggers – throughout the home; data to be made publicly available · Deciduous vines, fixed angle louvres plus vertical, retractable shading devices (in progress) – ensure maximum passive gain in cooler months and ability to prevent sun strike to glass and slab in warmer months · Low maintenance landscape design (in progress) – excellent use of space, bee-friendly, no grass · Rain water collection and efficient drip irrigation – 5000L tank plumbed to laundry, toilets and garden taps 	27/05/2017 2:00-4:00pm
July		
Lyneham	This house tour will showcase how you can make an existing house more sustainable and use a Trombe wall for additional heating. A Trombe wall is a passive solar building design where a wall is built on the winter sun side of a building with a glass external layer and a high heat capacity internal layer separated by a layer of air. Hopefully the sun will be shining on this day so the full effects of the wall can be seen.	1 st July 2:00-4:00pm

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Latham	DIY renovation from 1.5 to 7 stars. Energy efficiency upgrades • Well sealed building envelope – (floor to be finished) • Floor insulation (2.5 batts) • Wall insulation (Polystyrene chip from Cool Climate Homes – R3) • Ceiling insulation (R5 batts) • LED lighting • Induction cooktop • Air-leakage sealing to zone of wet areas Recycled materials used • Internal glass-paneled doors & handles • Bedroom curtains • Double-glazed windows along the front of house • Wood from removed walls (e.g. studs) – reused in studs • New flooring where wall removed sourced from Thor's Hammer • Carport - moved from another property • In-wall bookcase from floor boards Other upgrades • New kitchen, laundry & living-area joinery (kit)	22 nd July 10am-12pm
TBC	Solar House Day lecture expo about solar houses. Details coming soon.	Date TBC
Urban	Solar House Day bus tour of urban solar houses. Details coming soon.	Date TBC
Rural	Solar House Day bus tour of urban rural houses. Details coming soon.	Date TBC
August		
Coombs	A new Passive House in Coombs, 7-8 stars (still being rated) with pvc double glazing throughout, north aspect, many recycled internal components, particularly the kitchen benches and floors throughout (Thors hammer wood), recycled paper benchtops (rock paper), but what we are most proud of it our full garden water harvesting system that irrigates our garden through a series of underground rivers.	19 th August 2:00-4:00pm
September		
Sustainable House Day Tour (ACT)	Australian Government, Dept of Environment & Energy	Sunday 17th
October		
Macquarie	Join us for this tour of a solar passive, highly sealed, double glazed house that is a great example of what can be done in a backyard in inner Canberra. The owners are starting to improve the ex govie at the front along sustainable lines as well and intend to have a food forest in their section of the yard. They are a small family collective - sister in front house and niece and family next door. They have negotiated with the builder to allow a tour at lock-up stage when the exsulite cladding will be visible from the inside and the extra insulation etc is going in.	29 th October 2:00-4:00pm
November		
Womboin	In an attempt to reduce its environmental impact, this owner-built and designed rural house was constructed as much as possible from recycled, upcycled and reused materials. The post and beam structure incorporates frame-work, cladding, fittings and appliances that were sourced from the tip, the tip shop, demolitions and freecycle. It even boasts a kitchen which cost less than \$50 to fit out! While modest in proportions, the home is spacious and just gorgeous. Plus this tour also has a tiny transportable house for you to see!	Sunday 19th November 2:00-4:00pm (National recycling week)