

# Energy Fair Victor Harbor House Energy Rating Competition

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## The Task:

Create a model to scale that represents a dwelling on an allotment, designed for a sustainable, energy efficient house and surrounds that could be on any street within your school's local area with regard to:

- Australian building standards and local building requirements
- State and Local Government requirements regarding
  - Solar power and feed back to the grid
  - Use of water saving devices
  - Use of various building materials to eliminate draught, energy wastage etc
- State and Local Government recommendations re:
  - Colour scheme
  - Building position on allotment
  - Garden requirement(s) e.g.:
- deciduous trees to allow the house to be warmed in winter and shielding glass areas etc in summer
- curved paths without lots of concrete etc, to minimise summer heat being reflected into the house
  - Water catchments and recycling
  - Star Rating System for building approval
- scaled allotment size: maximum 1000mm X 750mm – minimum 500mm X 375mm

## The Format:

Two main submissions are required.

1. The first is a log book or poster display covering all research, images and planning.
2. The second is the model that can show:
  - cut away sections where various energy efficient appliances or building materials are installed or
  - where various non absorbent materials have been used or
  - where plants have been used to assist in making the home energy efficient based on seasonal plant changes.

Some of these requirements will be addressed by completing the following:

- The completed model must be made to scale based on a prepared plan
- Have photographs of the houses in the area of the selected location
- Have a realistic size allotment covering depth, width and any other encumbrance imposed in the area including easements etc
- All local government requirements pertaining to the area to be listed
- The application should consider the Star Rating requirements (reference to Sustainable Victoria's First Rate<sup>1</sup> software or CSIRO's Accurate software) applicable for building approvals in South Australia
- With the judges discuss and clarify design decisions made during the exercise

## Sources of Information:

As well as the star rating programs, students would be wise to consult with their:

- local council building inspector's office
- local nursery or Botanical Gardens
- local builders or members of the Master Builders Association or HIA
- state government's Department of Energy
- essential services suppliers
- state's Bureau of Meteorology or power supplier to gauge annual local temperatures

## What Forms a Team:

A team can be made up of a class or a combined group of students from the same school or educational institution.

## Entry Requirements:

Entry forms are available from both organisations or may be downloaded in pdf form from Energy Education Australia Inc website – [www.energy.edu.au/energy\\_event\\_submission.html](http://www.energy.edu.au/energy_event_submission.html). All entries must be registered with the Energy Fair Coordinator through either organisation by the 7<sup>th</sup> March 2008. Judging will be by eminent experts in the field of sustainable housing at the Energy Fair.

**Energy Education Australia Inc**  
PO Box 361 Oaklands Park, SA 5046  
Further information - Peter Sawley 0419 804 475  
[info@energy.edu.au](mailto:info@energy.edu.au)

**City of Victor Harbor**  
PO Box 11 Victor Harbor, SA 5211  
Further information - Roy Ramage 0448 760 005  
[rramage@victor.sa.gov.au](mailto:rramage@victor.sa.gov.au)

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## Team Application Form:

Please print all details

Educational Institution's Title	
Address:	
Adult Manager/Teacher:	
Contact Details: Telephone:	Email:
Student Representative:	
Average Age or Year Level of Team Members	
Approximate Number in Team	
Proposed City/Town/Suburb for Research	
Local Government Area	
<p>Being the Adult Manager/Teacher of the team, I agree to ensure that the team enters into the spirit of the competition and will present our completed work for judging at the Energy Fair on Sunday the 6<sup>th</sup> April 2008 at Victor Harbor. I also state that each team member is covered by his/her educational institution's insurance policy and exempts the organisers from all liability in the preparation and travel endured during this competition. In addition I believe the above information to be accurate and agree to keep the organisers informed as to the team's progress and any change to the team's structure.</p>	
Signed:	Date:

### Privacy Agreement:

The organisers would like your permission to promote the Energy Fair by interviewing and/or filming or photographing your team and its achievements during the preparation of your project. If you and your team members agree to be available for interviewing and/or a filming or photographic session(s) please sign below on their behalf. Signing means that all participants or their parents or guardians have agreed to any photographic or naming of each participant in any promotional material.

As organisers we will not divulge any of your team members' names to any outside body other than the organising committee from the City of Victor Harbor and Energy Education Australia Incorporated and their respective insurance companies if required.

On behalf of team \_\_\_\_\_, I \_\_\_\_\_, as Team Manager/Teacher, \_\_\_\_\_ (please print either **do** or **do not**) grant the organisers permission for the team to be included in any promotional advertising or news event or report.

Signed:

Date:

Completed Forms to be posted to either of the following addresses:

<p>Energy Fair C/- Energy Education Australia Inc PO Box 361, Oaklands Park SA 5046 Further information - Peter Sawley 0419 804 475</p>	<p>Energy Fair C/- City of Victor Harbor PO Box 11, Victor Harbor SA 5211 Further information - Roy Ramage 0448 760 005</p>
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