

SBE Quarterly Newsletter

February 2008 edition



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GREEN STAR EDUCATIONAL FACILITIES

SBE were a part of the technical working committee that developed the Green Star Education Pilot tool. We have recently applied the tool to four Educational projects, three of them University projects.



The Green Star tool acknowledges and rewards environmental design initiatives under the general categories of Management, Indoor Environmental Quality (IEQ), Energy, Transport, Water, Materials, Land Use & Ecology and Emissions.

The Energy category represents 25% of the total points available in the Green Star tool and IEQ 20%. IEQ initiatives (such as thermal comfort, improved daylighting, improved ventilation and access to fresh air) can contribute to improved learning outcomes and so are an important part of our focus at SBE.

The Education Tool is still in pilot form and we anticipate its official release mid year. Until that time projects cannot receive an official rating. However, just as SBE have done on their Education projects, designers may use the tool to guide the design process, highlight a project's potential to achieve a rating and to prepare the project for submission and official certification upon release of the official tool.

Further information about the Green Star Education Pilot tool can be found at the GBCA website on <http://www.gbca.org.au/> and a copy of the pilot tool may be downloaded from the same website.

Some examples of our Educational work are included below. Contact Danielle McCartney in our Sydney Office or Sean McArdle in the Melbourne Office for more information.

UNIVERSITY OF BALLARAT TECHNICAL EDUCATION CENTRE (UBTEC)

The University of Ballarat Technical Education Centre (UBTEC) is aiming for a 5 star Green Star education rating. It is soon to be constructed at the School of Mines campus in Ballarat. The building will cater for the general education of first year apprentices. The building features a ducted ventilation system linked to a thermal labyrinth and solar air heaters.



The labyrinth tempers the air supply in summer and the solar air heaters in winter. The high levels of daylighting, fresh air and thermal comfort achieved will compliment the flexible teaching and learning models being adopted in this building.

Image courtesy of the Architects Gray Puksand. The project budget is in the order of \$6 million. ESD consultancy and Green Star services by SBE.

AUTOMOTIVE CENTRE OF EXCELLENCE (ACE) - STAGE 2

The Automotive Centre of Excellence Stage 2 at Kangan Batman TAFE Docklands, is currently in the early design phase. Stage 2 will target 5 stars in the new Green Star Education tool. The facility will house office and administration functions and a significant array of workshops and teaching spaces designed to provide state of the art education to the next generation of the Australian Automotive Industry.



Stage 1 of the ACE received an official 5 star rating using the Office Design tool (V1). Further information about this innovative building can be found on the following link to the Sustainability Victoria Website http://www.sustainability.vic.gov.au/resources/documents/kbt_casestudy.pdf The Architect for Stage 1 was Lyons Architects.

The project budget for stage 2 is in the order of \$72 million and the Architects are Gray Puksand. Image from initial masterplan prepared by Lyons Architects.

SCHOOL OF FINE FURNITURE AT UNIVERSITY OF TASMANIA (UTAS)

The new School of Fine Furniture at UTAS is a sister facility to the new school of Architecture. The building has been designed in collaboration with Six Degrees Architects, and features a large solar air heater, ducted ventilation and evaporative cooling. The building will house furniture workshops, machinery and studios, as well as some teaching and resource spaces.



Image courtesy of Six Degrees Architects. The budget is in the order of \$2 million.

DANDENONG EDUCATION PRECINCT

Targeting 4 stars, Architects Hayball Leonard Stent deployed the latest thinking on Pedagogy and ESD in schools. The Schools Within Schools (SWIS) teaching model gathers more than 200 students in an open two storey studio like space.



The building design has achieved high levels of thermal comfort, daylighting, glare control, and improved ventilation. The combination of evaporative cooling and the pre

tempering of supply air by drawing it through the hollow core floor slab helps to maintain a stable internal environment. Night purging recharges the building's internal thermal mass with coolth in Summer.

Image courtesy of Hayball Leonard Stent. The project budget is in the order of \$10 million

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