



The Education Centre – Mildura Eco Village

What is the Education Centre?

The Education Centre is a community facility that demonstrates sustainable design, building practices and technologies.

The Education Centre is located in the Mildura Eco Village 15 Scherger Drive.

Sustainable Design Features Include

North-west facing

The Education Centre benefits from northwest facing orientation. In winter the large sliding doors and windows allow natural light to fill the space and heat the interior and in summer the centre is protected from unwanted thermal gain by the large overhanging eaves, and shade sail.

Sustainable Materials

The material used to construct the Education Centre was carefully chosen to reduce the embodied energy of the structure. 99% of the building was constructed from Australian sustainably sourced timber. The cladding features Victorian hardwoods and low emission paints have been used to eliminate volatile organic compounds (VOC's).

Underground Rock Bed

There are no air conditioners or heaters in the Education Centre instead ceiling fans are used in addition to the rock bed thermal storage system below the slab. The rock bed takes advantage of the stable ground temperature to cool the building. Fresh cool air from the rock bed is drawn in through a series of pipes buried underground and vented into the education space to cool the space during the warmer months. The under-slab storage system works for both the storage of heat energy for winter and cool air for summer

Solar Air Module System (SAM)

SAM's integrated air collector heats and dehumidifies the air, without any ongoing cost, electricity usage or carbon emissions. In winter the rock bed stores heat energy generated by the passive design as well as heat energy generated by the SAM panels on the roof. The SAM system ducts warm air through ceiling vents.

Double Layered roof system

The double-layered roof system enables the roof to have two modes of operation, purging heat in summer and increasing heat retention in winter.

Water Use Efficiency

A 10,000 L water tank collects rainwater from the roof.

Energy Efficiency Design

Energy-efficient lighting is used throughout. Double glazing was installed for all external doors and windows.

Concrete Flooring

The concrete floor acts as a heat bank in winter and a temperature equaliser in summer.

What the Education Centre is used for?

- Schools tours and environmental education activities
- Community meetings and group activities

Need more information

Visit www.mildura.vic.gov.au/Services/EnvironmentalSustainability/Mildura-Eco-Village/Eco-House

Contact information

Mildura Rural City Council's Environmental Sustainability Team on (03) 5018 8100

