Sustainable architecture: Solar heating and cooling solutions for buildings

Heating and cooling systems account for over 40% of commercial building energy usage in Australia with significant impact on building star rating.

Solar energy can reduce building energy consumption, and solar resource availability has a natural fit with the cooling needs of a building.

There are many ways to take advantage of solar. However, introducing solar creates additional design considerations and requires greater integration of building services and architectural design disciplines. A holistic approach during design stage will result in easy adaption of energy efficient technologies in buildings.

In this seminar, participants will gain an understanding of available solar cooling and heating solutions for integration with commercial and residential buildings. The seminar will provide guidelines for incorporating sustainable heating and cooling solutions while designing a building envelope. Real world examples from CSIRO installations from Australia and global installations from International Energy Agency task 53 (IEA) will be discussed during the seminar.

Participants of this seminar will be able to:
• Gain familiarity with market available solar cooling and heating solutions
• Recognise the design and installation requirements of sustainable heating and cooling technologies in buildings
• Include sustainable heating and cooling solution options in the conceptual design stage of a building

Presenter

Dr. Stephen White is a world authority in solar air conditioning and a member of the ARBS “Hall of Fame”. Stephen is domain leader in CSIRO’s Grids and energy efficiency program.

Cost: Free
Light lunch included.
Must be registered to attend.