



University of  
South Australia



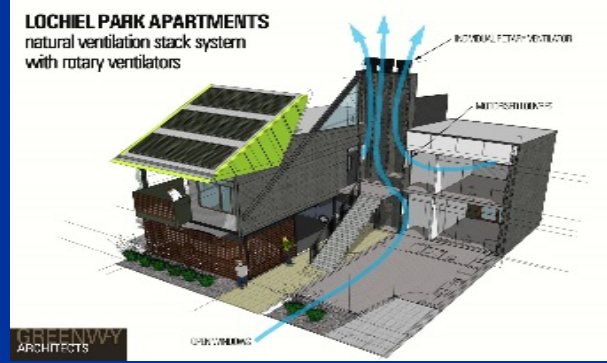
## Continuing Professional Development Module: Transition to Low Carbon Housing -

May 2019



### Expert Team at UniSA

- Professor Wasim Saman - Professor of Sustainable Energy Engineering
- Dr Alemu Alemu - Lecturer and Research Associate
- Dr Cathryn Hamilton - Research Fellow
- Dr David Whaley - Research Fellow



## OVERVIEW

- This is a high quality and high impact CPD module for building designers, assessors, architects and quantity surveyors
- It was initiated by Barbara Hardy Institute, School of Engineering and CRC for Low Carbon Living, targeted at national and local participants.
- It provides participants with scientific knowledge and best practice cases in low energy housing design.
- The module is built around existing research and addressing existing industry needs
- Completing this module is expected to earn you up to 4 CPD points



## LEARNING OUTCOMES

- Understand current best practices of energy efficient design, and the methodology of house energy performance evaluation and rating schemes
- Be familiar with low energy and economically sound systems for cooling, heating, ventilation and hot water heating, and their implications for building design and construction.
- Be familiar with renewable energy technologies, trends and the implications for building design and construction.
- Critically analyse the features of the demonstrated houses which contribute to low carbon housing design

## SCOPE

- Focuses on design and construction of new housing and apartments for Australian climates



# MODULE STRUCTURE

Four themes, and two parts per theme:

Theme 1: Fundamental of energy efficient design

Theme 2: Energy efficient appliances and equipment

Theme 3: Renewable energy and grid integration

Theme 4: Cases studies of high performance housing development.

## MODULE DELIVERY FORMAT

- Each theme has a presentation of maximum 30 minutes, and learning activities
- Three summative quizzes, each containing 10 multiple choice questions
- Additional e-reading and video resources.



Website:

<https://e.unisa.edu.au/course/view.php?id=66>

Enrolment Key will be provided by the peak organisations/ UniSA module facilitator.

You are required to register first through the following link.

<https://e.unisa.edu.au/login/signup.php>

Module Facilitator

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A screenshot of the EMOODLE course page for 'Transition to Zero Carbon Housing' at the University of South Australia. The page is displayed in a blue-themed interface. On the left, a navigation menu lists various course elements: Participants, Badges, Competencies, Grades, General, Welcome, Theme 1, Theme 2, Theme 3, Theme 4, Assessment, and Additional Resources. The main content area features a header banner with the course title and a 'Your progress' indicator. Below the banner, a navigation bar includes tabs for Welcome, Theme 1, Theme 2, Theme 3, Theme 4, Assessment, and Additional Resources. The 'Welcome' tab is active, showing a 'Welcome notes' video player. The video player displays a play button and text including 'Welcome notes', 'University of South Australia', 'Continuing Professional Development Module: Transition to Low Carbon Housing - Introduction', and 'Powered by Panopto'. The video player also includes logos for the University of South Australia and the Low Carbon Living CRC.

## Special thanks to:

- ❖ **The CRC for Low Carbon Living, the funding partner**
- ❖ **Mr Robert Moller and Mrs Pramila Rathore for the design of the online module including the video recording and editing**
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