



## Module 1.

# Green Design Principles / Green Envelope

January 26th, 2017 | Zagreb | Hrvatska

Lecturer: Dr. Aurore Julien, XRG, Freelance Consultant  
Language: English  
Site: Croatian Engineering Association | Berislavićeva 6 | Zagreb | Croatia  
Duration: 08:00 - 15:30

## Agenda

<b>08.00 – 08.30</b>	<b>Participant gathering</b>
<b>08:30 – 09:30</b>	<b>1. Background and main principles</b> 1.1. Envelopes and green buildings 1.2. Introduction to passive, bioclimatic and low energy building design 1.3. Site and climate 1.4. Workshop
<b>09.30 – 10.00</b>	<b>2. Sunlight and daylight</b> 2.1. The principles of light 2.2. Daylight
<b>10:00 – 10.15</b>	<b>Coffee break</b>
<b>10.15 – 11.15</b>	2.3. Sunlight and passive solar design 2.4. Workshop
<b>11.15 – 12:00</b>	<b>3. Wind and ventilation</b> 3.1. Principles of natural ventilation
<b>12.00 – 13.00</b>	<b>Green Lunch</b>
<b>13.00 – 14:15</b>	3.2. Natural ventilation systems and design 3.3. Workshop





14:15 – 15:15

#### 4. Dynamic and multipurpose envelopes

- 4.1. Double skin facades
- 4.2. Green roofs and walls
- 4.3. Integrated renewable energy

#### 5. Green refurbishment of envelopes

- 5.1. Introduction
- 5.2. Some technical solutions
- 5.3. Examples

#### 6. Environmental impacts of materials and envelope design

- 6.1. Environmental impacts of materials
- 6.2. Some „green“ and alternative materials

15:15 – 15:30

#### 7. Final workshop

15.30 – 16.00

#### Test and Analysis of satisfaction



Dr. Aurore Julien is a sustainability expert in green and energy efficient building design. She has worked on a wide variety of projects, ranging from schools, hospitals, offices, residential developments and urban masterplans in the UK and internationally. She now teaches Environmental Masterplanning and Low Carbon Energy Systems at the University College of London and is a freelance consultant and speaker under the company name XRG Ltd.

Prior to her current activities, Aurore worked as an environmental designer in BDSP, an innovative and green-minded building services consultancy. She then went to head up sustainability in the engineering consultancy Whitbybird (now Ramboll). During her time there, she was awarded Sustainability Designer of the Year Awards two years consecutively (BM, 2006, and BSJ, 2007). She then worked with the renowned architect Ken Yeang in his London architectural practice LDY until early 2011. Finally, Aurore has completed a PhD in relation to energy saving behaviours and energy security in 2014.

Qualifications: PhD, Energy and the Environment, UCL, UK; MSc (Dist), Environmental Design and Engineering, UCL, UK; Engineering Diploma from the Grande Ecole INSA, France; Chartered Engineer from CIBSE (CIBSE Member); BREAM AP; LEED AP NC.

