Eco-innovative, Safe and Energy Efficient wall panels and materials for a healthier indoor environment

Fact Sheet

Project Information

ECO-SEE

Grant agreement ID: 609234

Status
Closed project

Funded under
FP7-NMP

Overall budget
€ 9 357 393,03

EU contribution
€ 6 550 000

Coordinated by
UNIVERSITY OF BATH

United Kingdom

Start date
1 September 2013

End date
31 August 2017

This project is featured in...

RESULTS PACK

Striking a balance between energy efficiency and indoor air quality

4 December 2015

Objective

The ECO-SEE project aimed to develop innovative wall panels and materials.
The ECO-SEE project aims to develop new eco-materials and components for the purpose of creating both healthier and more energy efficient buildings. We will create and symbiotically use natural eco-materials for healthier indoor environments through hygrothermal (heat and moisture) regulation and the removal airborne contaminants through both chemical capture and photocatalysis. Our objectives include advancing state of the art in the technology and application of multifunctional bio-based insulation materials, vapour permeable and hygrothermal and moisture buffering finishes, together with wood panel products, to create both internal partition and external highly insulated wall panels. Novel chemical treatments and processes will be used to enhance volatile organic compound capture capacity of materials. We will also develop highly novel photocatalytic coatings using nanoparticle technology, which will be suitable for use in interior spaces and compatible with lime and wooden surfaces. Novel material development will be completed in partnership with world-class expert organisations in indoor environmental quality. We will also create a new holistic modelling framework that combines air quality, hygrothermal comfort and acoustic quality for the well-being of building users. We will take new products through to proof of concept development with prototype manufacture, large scale tests and pilot studies. We will deliver products with at least 15% lower embodied energy, at least 20% longer life, and, for at least 20% lower build costs. Our consortium brings together a multi-disciplinary team of world-class researchers from universities and research organisations with a number of large enterprises and innovative SMEs, whose combined expertise and capacity will lead commercial development and exploitation of our products. We will engage with stakeholders, including Public and Health authorities and standards committees, and deliver training and technical guidance.

Field of science
/engineering and technology/materials engineering/paper and wood
/engineering and technology/materials engineering/coating and films
/natural sciences/chemical sciences/physical chemistry/photochemistry/photocatalysis

Programme(s)

Topic(s)

Call for proposal

FP7-2013-NMP-ENV-EeB

Funding Scheme
## Coordinator

**UNIVERSITY OF BATH**

- **Address**: Claverton Down, BA2 7AY Bath, United Kingdom
- **Activity type**: Higher or Secondary Education Establishments
- **EU contribution**: € 1 265 730,26

**Administrative Contact**

Peter Walker (Prof.)

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## Participants (19)

**ACCIONA CONSTRUCCION SA**

- **Address**: Avenida De Europa 18 Parque Empresarial, 28108 Alcobendas
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
- **EU contribution**: € 541 460

**Administrative Contact**

Miguel Angel Paris Torres (Mr.)

---

**UNIVERSIDADE DE AVEIRO**

- **Address**: Campus Universitário De Santiago, 3810-193 Aveiro
- **Activity type**: Higher or Secondary Education Establishments
- **EU contribution**: € 252 633,60

**Administrative Contact**

[Contact the organisation](#)
BANGOR UNIVERSITY
United Kingdom
EU contribution
€ 832 058.02
Address
College Road
LL57 2DG Bangor
Website
Activity type
Higher or Secondary Education Establishments
Contact the organisation

Administrative Contact
Christine Davey (Mrs.)

BCB SAS
France
EU contribution
€ 193 797
Address
Rue Du Choumois Zac De Valentin
25870 Chatillon Le Duc
Website
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

Administrative Contact
Daniel Daviller (Mr.)

Black Mountain Insulation Ltd
United Kingdom
EU contribution
€ 178 578.70
Address
Bradwell Hall Bradwell On Sea CM0 7HX Southminster Essex
Website
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

Administrative Contact
Gordon Pirret (Mr.)
BUILDING RESEARCH ESTABLISHMENT LTD

United Kingdom
EU contribution
€ 504 003,50

Address
Bucknalls Lane Garston
WD25 9XX Watford

Activity type
Other

Website
Contact the organisation

Administrative Contact
Kim Noonan (Ms.)

PETER BREIDENBACH

Germany
EU contribution
€ 234 850

Address
Nettetalere Strasse 113
41751 Viersen

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Manfred Lemke (Mr.)

PARCO SCIENTIFICO TECNOLOGICO PER LAMBIENTE ENVIRONMENT PARK TORINO SPA

Italy
EU contribution
€ 166 740

Address
Galleria San Federico 54 Co Finpiemonte
10100 Torino

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Federico Cartasegna (Dr.)
<table>
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<th>Organisation</th>
<th>Country</th>
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<td>FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.</td>
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<td>€ 720 200</td>
<td>Hansastrasse 27C, 80686 Munchen</td>
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<td>€ 336 320</td>
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<td>INDIAN INSTITUTE OF TECHNOLOGY DELHI</td>
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<td>€ 106 530</td>
<td>Hauz Khas, 110 016 New Delhi</td>
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<td>MODCELL LTD</td>
<td>United Kingdom</td>
<td>€ 235 620,86</td>
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</table>
Sevier Street 101 The Proving House
BS2 9LB Bristol

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website

Administrative Contact
Craig White (Mr.)

NESOCCELL SRL
Italy
EU contribution
€ 132 500

Corso Castelfidardo 30/A
10129 Torino

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

Administrative Contact
Andrea Cavaleri (Mr.)

SKANSKA UK PLC
United Kingdom
EU contribution
€ 181 540,80

Denham Way Maple Cross
House Maple
WD3 9SW Rickmansworth
Hertfordshire

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website

Administrative Contact
Sam Stacey (Mr.)

FUNDACION TECNALIA RESEARCH & INNOVATION
Spain
EU contribution
€ 302 432,50

Camitiri

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website

Administrative Contact

Contact the organisation
Parque Científico Y Tecnológico De Gipuzkoa
Paseo Mikeletegi 2

20009 Donostia/san Sebastian (Gipuzkoa)

Website Contact the organisation

Administrative Contact
Oihana Garcia (Dr.)

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SIEC BADAWCZA LUKASIEWICZ - INSTYTUT TECHNOLOGII DREWNA

Poland
EU contribution
€ 197 310

Address Activity type
Ul. Winiarska 1 Research Organisations
60 654 Poznan

Website Contact the organisation

Administrative Contact
Sylwia Malinska (Ms.)

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KRONOSPAN LIMITED

United Kingdom
EU contribution
€ 167 694,76

Address Activity type
Holyhead Road Maesgwyn Private for-profit entities
Farm Chirk (excluding Higher or
LL14 5NT Wrexham Secondary Education
Establishments)

Website Contact the organisation

Administrative Contact
Chris Ryan (Mr.)

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BLACK MOUNTAIN INSULATION LTD

United Kingdom

Address Activity type
Express Way 3 Unit B Tir Private for-profit entities
Llwyd Industrial Estate (excluding Higher or
Kinmel Bay Secondary Education

Website Contact the organisation

Administrative Contact

LIME TECHNOLOGY LIMITED
United Kingdom

Address
Milton Park 126
OX14 4SA Abingdon

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Andrew Evans (Mr.)

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