Development and advanced prefabrication of innovative, multifunctional building envelope elements for MOdular RETrofitting and CONNECTions

Fact Sheet

Project Information

MORE-CONNECT
Grant agreement ID: 633477

Funded under H2020-EU.3.3.1.

Overall budget € 5 634 810,68

EU contribution € 4 364 748,60

Huygen Installatie Adviseurs
Netherlands

Status
Closed project

Start date 1 December 2014
End date 31 May 2019

Objective

Objective is to develop and to demonstrate technologies and components for prefabricated modular renovation elements in five geo-clusters in Europe. This includes prefabricated durable, innovative, modular composed building envelope elements for the total building envelop for the renovation market, including the prefab integration of multifunctional components for climate control, energy saving, building physics and aesthetics, with advanced easy to use plug&play connections (mechanical, hydraulic, air, electric, prefab airtight joints). MORE-CONNECT offers tailor-made renovation concepts, from a standardized industrialized manufacturing and assembly process, in a one-shop-stop concept to the end-user, with a nearly zero energy performance of the total modular renovation concepts, a maximum

integration of multifunctional components for climate control, energy saving, building physics and aesthetics, with advanced easy to use plug&play connections (mechanical, hydraulic, air, electric, prefab airtight joints). MORE-CONNECT offers tailor-made renovation concepts, from a standardized industrialized manufacturing and assembly process, in a one-shop-stop concept to the end-user, with a nearly zero energy performance of the total modular renovation concepts, a maximum

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return on investment less than 8 years and with a limitation of the total renovation time of 5 days. The concept offers performance guarantee for individual energy use and the quality of the indoor environment. Product innovation includes the selection of sustainable materials and sustainable detailing. A specific feature is the development of Plug & Play connection of modular components. Smart combinations of components and executions ensure extra performances for NZE concepts, healthy indoor environment, safety, accessibility. Components communicate by integrated (wireless) sensors and control components for performance diagnostics and control. Process innovation will be achieved by the use of advanced geomatics to make inventories of buildings. Webbased tools will link building characteristics, building (energy) potentials, and end-users demands to program requirements. This will be processed in BIM systems for the steering industrial process and enhanced quality control. This makes it possible to make tailor-made solutions for individuals, in mass production (n =1 series). Business models and advanced energy services (one-stop-shop) will be developed for each geo cluster.

Field of science

/social sciences/economics and business/economics/sustainable economy

Programme(s)

Topic(s)

Call for proposal

H2020-EE-2014-1-PPP

Funding Scheme

IA - Innovation action

Coordinator

Huygen Installatie Adviseurs

Address

Parkweg 22B
6200AM Maastricht
Netherlands

Activity type

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

EU contribution

€ 442 921,80

Contact the organisation
Participants (18)

STICHTING ZUYD HOGESCHOOL
Netherlands
EU contribution
€ 137 756,25
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Activity type
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Website
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BJW BV
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€ 204 356,25
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TIMMERFABRIEK WEBO BV
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Activity type
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Contact the organisation

RIGAS TEHNISKA UNIVERSITATE
Latvia
EU contribution
€ 330 450
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Contact the organisation [link](#)
EU contribution

€ 474 476,80

Address
Herlev Hovedgade 195
2730 Herlev

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

Contact the organisation

INNOGIE APS

Denmark
EU contribution
€ 226 222,50

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7430 Ikast

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

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INVELA

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EU contribution
€ 223 212,50

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4200 Slagelse

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

Contact the organisation

CESKE VYSOKE UCENI TECHNICKE V PRAZE

Czechia
EU contribution
€ 337 930

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Jugoslavskych Partyzanu
1580/3
160 00 Praha

Activity type
Higher or Secondary Education Establishments

Website
Contact the organisation
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<td>GAIURB - URBANISMO E HABITACAO EM</td>
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<td>€ 196 090</td>
<td>Largo De Aljubarrota 13, 4400 012 Vila Nova De Gaia</td>
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