Achieving near Zero and Positive Energy Settlements in Europe using Advanced Energy Technology

Fact Sheet

Project Information

ZERO-PLUS
Grant agreement ID: 678407

Funded under H2020-EU.3.3.1.
Overall budget € 4 165 502,50
EU contribution € 3 512 024,38

Project website

Status
Closed project

Coordinated by ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON

Greece

Start date
1 October 2015

End date
30 September 2020

Objective

"In ZERO-PLUS, a comprehensive, cost-effective system for Net Zero Energy (NZE) settlements will be developed and implemented. The system will be composed of innovative solutions for the building envelope, for building energy generation and management, and for energy management at the settlement level. A reduction of operational energy usage to an average of 0-20 kWh/m2 per year (compared with the current average of 70-230 kWh/m2) will be achieved through a transition from single NZE buildings to NZE settlements, in which the energy loads and resources are optimally managed.

A primary objective of the project will be to develop a system whose investment costs will be at least 16% lower than current costs. In order to reduce ""balance of system"" costs, an approach of mass customization will be employed. Mass produced technologies will be integrated in a system that is optimally designed according to the local climate and site of each project in which it is implemented. To this end, a
local climate and site of each project in which it is implemented. To this end, a structured process will be developed and applied for the integration, optimization and verification of the design.

The project’s work programme will ensure a rapid market uptake, within its four-year scope, of the innovative solutions that will be developed. These solutions will be implemented in four different demonstration projects throughout the EU, with varying climates and building types. The results of their implementation will be monitored, analyzed and disseminated. A comprehensive market analysis and business plan will support the commercial exploitation of the project’s results. The project will be carried out by a consortium that includes universities, project owners, technology providers and organizations, which will closely collaborate in all the project’s phases.

Field of science

/social sciences/economics and business/business and management/commerce

Programme(s)

Topic(s)

Call for proposal

H2020-EE-2015-1-PPP

Funding Scheme

IA - Innovation action

Coordinator

ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON

Address

6 Christou Lada Str
10561 Athina

Activity type

Higher or Secondary Education Establishments

EU contribution

€ 405 062,50

Website

Contact the organisation

Participants (15)
TECHNISCHE UNIVERSITAET MUENCHEN

Germany

EU contribution

€ 339,875

Address

Arcisstrasse 21
80333 Muenchen

Activity type

Higher or Secondary Education Establishments

Website

Contact the organisation

BEN-GURION UNIVERSITY OF THE NEGEV

Israel

EU contribution

€ 311,187,50

Address

84105 Beer Sheva

Activity type

Higher or Secondary Education Establishments

Website

Contact the organisation

UNIVERSITA DEGLI STUDI DI PERUGIA

Italy

EU contribution

€ 172,700

Address

Piazza Dell Universita 1
06123 Perugia

Activity type

Higher or Secondary Education Establishments

Website

Contact the organisation

OXFORD BROOKES UNIVERSITY

United Kingdom

EU contribution

€ 328,850

Address

Headington Campus Gipsy Lane
OX3 OBP Oxford

Activity type

Higher or Secondary Education Establishments

Website

Contact the organisation
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU Conribution</th>
<th>Country</th>
<th>Address</th>
<th>Activity Type</th>
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<tbody>
<tr>
<td>THE CYPRUS INSTITUTE</td>
<td>€ 188 125</td>
<td>Cyprus</td>
<td>Constantinou Kavafi 20 2121 Nicosia</td>
<td>Higher or Secondary Education Establishments</td>
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<td>POLYTECHNEIO KRITIS</td>
<td>€ 225 318,75</td>
<td>Greece</td>
<td>Building E4, Technical University Campus Counoupidiana 731 00 Chania</td>
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<td>ABB SPA</td>
<td>€ 83 877,50</td>
<td>Italy</td>
<td>Via Vittor Pisani 16 20124 Milano</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>ANERDGY AG</td>
<td>€ 0</td>
<td>Switzerland</td>
<td>Regina Kagi Strasse 11 8050 Zurich</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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FIBRAN INSULATING MATERIALS INDUSTRY DIMITRIOS ANASTASIADIS SA

Greece
EU contribution
€ 57 225
Address
Terpni
62200 Nigrita
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

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CONSORZIO ARCA - CONSORZIO PER LA PROMOZIONE DELLE APPLICAZIONI DELLARICERCA E LA CREAZIONE DI AZIENDE INNOVATIVE

Italy
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Piazza Marina 61
90133 Palermo
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Research Organisations

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ECO LIMITED

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€ 99 133,13
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ALPES ISERE HABITAT OFFICE PUBLIC DE L'HABITAT

France
EU contribution
€ 268 100
Address
21 Avenue De Constantine
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Private for-profit entities
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AETHERIA HEIGHTS LTD
Cyprus
EU contribution
€ 206 517,50
Address
Akadimias 21 Aglantzia
2107 Nicosia
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Private for-profit entities
(excluding Higher or Secondary Education Establishments)

CONTEDIL DI RICCO MARIA & C SAS
Italy
EU contribution
€ 294 700
Address
Viale Mazzini 105
75013 Ferrandina Mt
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Private for-profit entities
(excluding Higher or Secondary Education Establishments)

THE TRUSTEES OF THE JOSEPH ROWNTREE HOUSING TRUST
United Kingdom
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€ 271 597,50
Address
The Homestead 40 Water End
YO30 6WP York
Activity type
Other

Last update: 5 June 2020
Record number: 198347