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.

Status
Ongoing project

Overall budget € 4 165 502,50

EU contribution € 3 512 024,38

Start date 1 October 2015
End date 30 September 2020

Coordinated by ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON

Greece

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
Greece

Activity type
Higher or Secondary Education Establishments

EU contribution
€ 405 062,50

Website
Contact the organisation

Participants (15)
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
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<tbody>
<tr>
<td>TECHNISCHE UNIVERSITAET MUENCHEN</td>
<td>€ 339 875</td>
<td>Arcisstrasse 21, 80333 Muenchen</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>BEN-GURION UNIVERSITY OF THE NEGEV</td>
<td>€ 311 187,50</td>
<td>84105 Beer Sheva</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>UNIVERSITA DEGLI STUDI DI PERUGIA</td>
<td>€ 172 700</td>
<td>Piazza Dell Universita 1, 06123 Perugia</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>OXFORD BROOKES UNIVERSITY</td>
<td>€ 328 850</td>
<td>Headington Campus Gipsy Lane, OX3 OBP Oxford</td>
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<td>THE CYPRUS INSTITUTE</td>
<td>Cyprus</td>
<td>€ 188,125</td>
<td>Constantinou Kavafi 20 2121 Nicosia</td>
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<tr>
<td>POLYTECHNEIO KRITIS</td>
<td>Greece</td>
<td>€ 225,318.75</td>
<td>Building E4, Technical University Campus Counoupidiana 731 00 Chania</td>
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<td>ABB SPA</td>
<td>Italy</td>
<td>€ 83,877.50</td>
<td>Via Vittor Pisani 16 20124 Milano</td>
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<tr>
<td>ANERDGY AG</td>
<td>Switzerland</td>
<td>€ 0</td>
<td>Regina Kagi Strasse 11 8050 Zurich</td>
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</table>
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)

Contact the organisation

CONSORZIO ARCA - CONSORZIO PER LA PROMOZIONE DELLE APPLICAZIONI DELL'ARICERCA E LA CREAZIONE DI AZIENDE INNOVATIVE

Italy
EU contribution
€ 259 755

Address
Piazza Marina 61
90133 Palermo

Activity type
Research Organisations

Contact the organisation

ECO LIMITED

United Kingdom
EU contribution
€ 99 133,13

Address
55 Chislehurst Road
BR7 5NP Chislehurst

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

Contact the organisation

ALPES ISERE HABITAT OFFICE PUBLIC DE L'HABITAT

France
EU contribution
€ 268 100

Address
21 Avenue De Constantine

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
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<td>AETHERIA HEIGHTS LTD</td>
<td>Cyprus</td>
<td>€ 206 517,50</td>
<td>Akadimias 21 Aglantzia, 2107 Nicosia</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>CONTEDIL DI RICCO MARIA &amp; C SAS</td>
<td>Italy</td>
<td>€ 294 700</td>
<td>Viale Mazzini 105, 75013 Ferrandina Mt</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>THE TRUSTEES OF THE JOSEPH ROWNTREE HOUSING TRUST</td>
<td>United Kingdom</td>
<td>€ 271 597,50</td>
<td>The Homestead 40 Water End, YO30 6WP York</td>
<td>Other</td>
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Last update: 5 June 2020
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