
Fact Sheet

Project Information

Innova MicroSolar
Grant agreement ID: 723596

Funded under
H2020-EU.3.3.1.

Overall budget
€ 3 999 383,75

Project website

EU contribution
€ 3 999 383,75

Status
Ongoing project

Start date
1 September 2016

End date
30 June 2021

Coordinated by
UNIVERSITY OF NORTHUMBRIA
AT NEWCASTLE
United Kingdom

Objective

Rapid expansion of utilisation of solar thermal energy for increasing energy efficiency of buildings have been adopted in short/medium- and long-term Energy Strategies of EU countries in line with regional actions with the European climate energy objectives as defined in the European Union’s “20-20-20” targets and in the European Commission’s Energy Roadmap 2050.

The overall objective of this project is to develop an innovative high performance and cost effective 2-kWel/18-kWth solar heat and power system for application in individual dwellings and small business residential buildings for on-site electricity and heat generation using solar thermal energy at temperature levels of 250-280 deg.C. The proposed technology will be laboratory validated and undergo field tests on a demonstration site.

The project will utilise the expertise of the consortium members in the development of
The project will utilise the expertise of the consortium members in the development of small Organic Rankine Cycle plants, linear Fresnel mirror solar energy concentrating collectors; advanced heat pipe technologies for the thermal management; high performance Thermal Energy Storage systems on the basis of Phase Change Materials; smart control units for integration of solar thermal and boiler heating circuits. Also participants of this Project are experienced in integration of Renewable energy technologies into buildings, optimisation of complex plants and in analysis and predictions of socio-economic impact and in commercialisation of new Renewable energy products;

It is estimated that the proposed technology will deliver 60% of domestic energy requirements and provide 20% reduction in energy costs and Green House Gas (GHG) emissions compared to the best existing low carbon energy technologies. In this way the project will also assist in improving the quality of life of population within and outside the EU and provide clean, efficient and secure energy to dwellings.

**Field of science**

/technology/environmental engineering/energy and fuels/fossil energy/gas
/social sciences/economics and business
/technology/environmental engineering/energy and fuels/renewable energy
/technology/environmental engineering/energy and fuels/renewable energy/solar energy
/technology/environmental engineering/energy and fuels/renewable energy/waste management/energy efficiency

**Programme(s)**

**Topic(s)**

**Call for proposal**

H2020-EE-2016-RIA-IA

**Funding Scheme**

RIA - Research and Innovation action

**Coordinator**

**UNIVERSITY OF NORTHUMBRIA AT NEWCASTLE**

<table>
<thead>
<tr>
<th>Address</th>
<th>Activity type</th>
<th>EU contribution</th>
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<tr>
<td>Sutherland Building College</td>
<td>Higher or Secondary</td>
<td>€ 788 030</td>
</tr>
</tbody>
</table>
Participants (8)

UNIVERSIDAD DE LLEIDA
Spain
EU contribution
€ 511 250
Address
Placa Victor Siurana 1 1
25003 Lleida
Activity type
Higher or Secondary Education Establishments
Website
Contact the organisation

UNIVERSITA TELEMATICA E-CAMPUS
Italy
EU contribution
€ 337 250
Address
Via Isimbardi N 10
22060 Novedrate Co
Activity type
Higher or Secondary Education Establishments
Contact the organisation

ENOGIA
France
EU contribution
€ 550 625
Address
19 Avenue Paul Heroult
13015 Marseille
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

AAVID THERMACORE EUROPE LIMITED
United Kingdom
EU contribution
€ 577 695

Address
Activity type
Wansbeck Business Park 12
NE63 8QW Ashington
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)

Website
Contact the organisation

ELIANTO SRL
Italy
EU contribution
€ 574 033,75

Address
Activity type
Loc.pixina Manna - Ed 1 - C/o
Centro Polaris
09010 Pula
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)

Contact the organisation

S.TRA.TE.G.I.E. SRL
Italy
EU contribution
€ 389 750

Address
Activity type
Via Sandro Totti 3
60131 Ancona
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)

Contact the organisation

E3G INGENIERIA Y ENERGIA, SOCIEDADLIMITADA
Spain
EU contribution
€ 139 125

Address
Activity type
Avda De L’ Estudi General
Num 7 Altillo 5
25001 Lleida
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)
USER FEEDBACK PROGRAM SL
Spain
EU contribution
€ 131,625

Address
C Sant Jaume Apostol 8
25126 Almenar

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

Last update: 22 July 2020
Record number: 205663

Permalink: https://cordis.europa.eu/project/id/723596/

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