Systemic large scale eco-innovation to advance circular economy and mineral recovery from organic waste in Europe

Fact Sheet

Project Information

SYSTEMIC
Grant agreement ID: 730400

Funded under H2020-EU.3.5.4.

Project website

Status
Ongoing project

Overall budget
€ 9 664 295

EU contribution
€ 7 859 828,75

Start date
1 June 2017

End date
30 November 2021

Coordinated by
STICHTING WAGENINGEN RESEARCH
Netherlands

Objective

SYSTEMIC will reach a break-through to re-enter recovered nutrients from organic waste into the production cycle. Consequently, this will offer solutions for pressing environmental issues and to reduce the import of P as finite irreplaceable resource in mines.

The SYSTEMIC project aims to shift the European Biomass treatment practice to the next level. Departing from existing business cases and a new ground-breaking large scale demonstration plant, the future of anaerobic digestion (AD) value chains will be investigated and demonstrated. The result will help existing and future AD-operators to maximise their performance: produce and sell more quality products, generate more energy and be independent on subsidies. By the market driven leadership, the SYSTEMIC-project will finally turn biomass waste into valuable products while reducing water pollution, greenhouse gas emission and creating quality jobs in rural
Reducing water pollution, greenhouse gas emission and creating quality jobs in rural areas.

The planned demonstration plant will allow innovative combinations of modules to elaborate possible optimizations for increasing the production quantity and quality of new mineral products, and the integration of these products into a circular economy. Reflecting the experiences from the demonstration plant with a set of 4 mirror cases in different member states allow systemic innovation including end-user driven (a) specific technical development and (b) the cost efficient investigation of real world circular economy business cases and (c) operational, regulatory, institutional and contextual barriers to overcome.

Using partial funding from the EC, the SYSTEMIC industry-driven consortium will validate for the first time the technical and economic viability of a fully integrated, multistep approach in an operational environment. The successful practical demonstration will put the European sector in a leading position to offer efficient mineral recovery technologies.

Field of science

/social sciences/economics and business/business and management/commerce
/engineering and technology/environmental engineering/energy and fuels/fossil energy/gas
/social sciences/economics and business
/natural sciences/earth and related environmental sciences/environmental sciences/pollution
/agricultural sciences/agricultural biotechnology/biomass

Programme(s)

Topic(s)

Call for proposal

H2020-CIRC-2016TwoStage

Funding Scheme

IA - Innovation action

Coordinator
<table>
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<tr>
<th>Organisation</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
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<tr>
<td>STICHTING WAGENINGEN RESEARCH</td>
<td>€ 1 451 524,81</td>
<td>Droevendaalsesteeg 4 6708 PB Wageningen, Netherlands</td>
<td>Research Organisations</td>
</tr>
<tr>
<td>AMPOWER</td>
<td>€ 1 083 950</td>
<td>Brugsesteenweg 176 8740 Pittem, Belgium</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<tr>
<td>GROOT ZEVERT VERGISTING BV</td>
<td>€ 1 121 977,50</td>
<td>Deventer Kunstweg 2 A 7156 NW Beltrum, Netherlands</td>
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<td>ACQUA &amp; SOLE SRL</td>
<td>€ 518 350</td>
<td>Via Vittor Pisani 16 20124 Milano, Italy</td>
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RIKA BIOFUEL DEVELOPMENTS LTD
United Kingdom
EU contribution
€ 297 788,75

Address
Aldenham Hall, Morville
WV16 4RN Bridgenorth

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

GNS GESELLSCHAFT FUR NACHHALTIGE STOFFNUTZUNG MBH
Germany
EU contribution
€ 210 350

Address
Weinbergweg 23
06120 Halle

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

A-TUOTTAJAT OY
Finland
EU contribution
€ 84 000

Address
Itikanmaenkatu 3
60100 Seinajoki

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

ICL FERTILIZERS EUROPE CV
Netherlands
EU contribution
€ 75 250
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<td>NIJHUIS WATER TECHNOLOGY BV</td>
<td>Netherlands</td>
<td>€ 316 750</td>
<td>Innovatieweg 4 7007 CD Doetinchem</td>
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<td>PROMAN MANAGEMENT GMBH</td>
<td>Austria</td>
<td>€ 502 005</td>
<td>Weingartenstrasse 92 2214 Auersthal</td>
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<td>UNIVERSITEIT GENT</td>
<td>Belgium</td>
<td>€ 876 950,94</td>
<td>Sint Pietersnieuwstraat 25 9000 Gent</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>UNIVERSITA DEGLI STUDI DI MILANO</td>
<td>Italy</td>
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VLAAMS COORDINATIECENTRUM MESTVERWERKING
Belgium
EU contribution
€ 472 713
Address
Baron Ruzettelaan 1
8130 Sint Andries Brugge
Activity type
Other

EUROPEAN BIOGAS ASSOCIATION
Belgium
EU contribution
€ 138 750
Address
Rue D’arlon 63-65
1040 Brussels
Activity type
Other

THE RURAL INVESTMENT SUPPORT FOR EUROPE FOUNDATION
Belgium
EU contribution
€ 324 818,75
Address
Rue De Treves 67
1040 Bruxelles
Activity type
Other

Contact the organisation

Last update: 29 June 2020
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