BIO-based products from FORestry via Economically Viable European Routes

Fact Sheet

Project Information

BIOFOREVER
Grant agreement ID: 720710

Funded under
H2020-EU.3.2.6.

Overall budget
€ 15 237 405,75

EU contribution
€ 9 937 997,02

Closed project

Start date
1 September 2016

End date
31 December 2019

Coordinated by
DSM FOOD SPECIALTIES BV
Netherlands

This project is featured in...

RESEARCH*EU MAGAZINE
Soil and sustainability: Raising the game for European agriculture

Objective
Lignocellulosic (LC) feedstock will soon become a key strategic resource in Europe for chemical intermediates and products, boosting the transition from fossil-based to bio-based economy. BIOFOREVER will demonstrate 5 new LC value chains and 3 valorisation routes for co-products utilizing 4 different cascading biorefinery concepts in order to establish optimal combinations of feedstock, biorefinery, end-products and markets that will allow the successful implementation of these value chains in commercial scale as follow-up step. Chemicals, food and specialties will be produced.

The project will target spruce, poplar and wood waste but will also assess other LC feedstocks in order to achieve the most commercially viable and sustainable value chains. Using a fast-track (3-year) and open innovation approach, BIOFOREVER teams up 14 leading industrial partners in feedstock supply, pre-treatment, downstream processing and producers of chemicals, food and specialties in order to rapidly progress commercialization of these value chains. Assessment of feedstock sustainability, customer perception and stakeholder engagement for scale up to commercial scale will be integrated in the project.

Business cases for the value chains will result in competitive biobased products, matching cost of existing fossil-based products (e.g. at par with current sugars) and improving performance in properties and sustainability. Other impacts of BIOFOREVER are:

- Up to 85% reductions in CO2-emissions compared to fossil-based value chains.
- About € 400 mln turnover in biorefinery intermediates (lignins and sugars) and € 650 mln in chemical intermediates and products for a 1,5 mln ton/year LC biorefinery.
- The number of direct jobs of commercial scale biorefinery would accumulate to about 1200, generating typically 6000-7500 indirect jobs and an additional investment exceeding the 70M euros by the partners.

**Fields of science**

> > >

**Programme(s)**

**Topic(s)**

**Call for proposal**
### Funding Scheme

#### Coordinator

<table>
<thead>
<tr>
<th>DSM FOOD SPECIALTIES BV</th>
<th>Address</th>
<th>Activity type</th>
<th>EU contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Alexander Fleminglaan 1&lt;br&gt;2613 AX Delft&lt;br&gt;Netherlands</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
<td>€ 1 521 108,25</td>
</tr>
</tbody>
</table>

| Website | Contact the organisation |

#### Participants (13)

<table>
<thead>
<tr>
<th>SUEZ GROUPE</th>
<th>France</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>€ 234 047</td>
<td>16 Place De L'iris Tour Cb21&lt;br&gt;92040 Paris La Defense Cedex</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
</tbody>
</table>

| Website | Contact the organisation |

<table>
<thead>
<tr>
<th>PHYTOWELT GREENTECHNOLOGIES GMBH</th>
<th>Germany</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>€ 613 722,90</td>
<td>Kolsumer Weg 33&lt;br&gt;41334 Nettetal</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
</tbody>
</table>

<p>| Website | Contact the organisation |</p>
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>BORREGAARD AS</td>
<td>Norway</td>
<td>€ 1 096 099</td>
<td>Hjalmar Wessels Vei 6</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>BIOPROCESS PILOT FACILITY BV</td>
<td>Netherlands</td>
<td>€ 1 180 943,75</td>
<td>Alexander Fleminglaan 1</td>
<td>Other</td>
</tr>
<tr>
<td>AVANTIUM CHEMICALS BV</td>
<td>Netherlands</td>
<td>€ 1 546 578,26</td>
<td>Zekeringstraat 29</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>Green Biologics Ltd.</td>
<td>United Kingdom</td>
<td>€ 445 844,70</td>
<td>45A Western Avenue, Milton Park</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>Organisation</td>
<td>Country</td>
<td>EU Contribution</td>
<td>Address</td>
<td>Activity Type</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>---------</td>
<td>-----------------</td>
<td>----------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>NOVASEP PROCESS</td>
<td>France</td>
<td>€ 255,451.88</td>
<td>Site Eiffel Boulevard De La Moselle, 54340 Pompey</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>ELKEM CARBON AS</td>
<td>Norway</td>
<td>€ 266,930</td>
<td>Drammensvein 169, 0277 Oslo</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>METGEN OY</td>
<td>Finland</td>
<td>€ 565,682.25</td>
<td>Rakentajantie 26, 20780 Kaarina</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>API EUROPE MONOPROSOPI ETAIREIA PERIORISMEIENIS EFTHINIS YPIRESION EREVNAS KAI MELETIS STIN VIOTECHNOLOGIA</td>
<td>Greece</td>
<td>€ 1,836,500.40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HAVENBEDRIJF ROTTERDAM NV
Netherlands
EU contribution
€ 46 548
Address
Wilhelminakade 909
3072 AP Rotterdam
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

NOVA-INSTITUT FUR POLITISCHE UND OKOLOGISCHE INNOVATION GMBH
Germany
EU contribution
€ 174 951
Address
Chemiepark Knapsack
Industriestrasse
50354 Huerth
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Contact the organisation

BIO REFINERY DEVELOPMENT BV
Netherlands
EU contribution
€ 153 589,63
Address
Hazelaar 10
6444 DL Brunssum
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Contact the organisation