

Demonstration project to prove the techno-economic feasibility of using algae to treat saline wastewater from the food industry.

**HORIZON
2020**

Demonstration project to prove the techno-economic feasibility of using algae to treat saline wastewater from the food industry.

Fact Sheet

Project Information

SALTGAE

Grant agreement ID: 689785

[Project website](#) 

DOI

[10.3030/689785](https://doi.org/10.3030/689785) 

Project closed

EC signature date

2 May 2016

Start date

1 June 2016

End date

30 September 2019

Funded under

SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials

Total cost

€ 9 844 741,39

EU contribution

€ 8 294 318,87

Coordinated by

FUNDACION TECNOLOGICA
ADVANTX



Spain

This project is featured in...



15 April 2019



Objective

The aim of the project is to implement and demonstrate at large scale the long-term technological and economic feasibility of an innovative, sustainable and efficient solution for the treatment of high salinity wastewater from the F&D industry. Conventional wastewater treatments have proven ineffective for this kind of wastewater, as the bacterial processes typically used for the elimination of organic matter and nutrients are inhibited under high salinity contents. Therefore, generally combinations of biological and physicochemical methods are used which greatly increase the costs of the treatment, making it unaffordable for SMEs, who voluntarily decide not to comply with EU directives and discharge without prior treatment, causing severe damage to the environment.

The solution of SALTGAE to this issue consists in the implementation of innovative technologies for each step of the wastewater treatment that will promote energy and resource efficiency, and reduce costs. Amongst these, the use of halotolerant algae/bacteria consortiums in HRAPs for the elimination of organic matter and nutrients stands out for its high added value: not only will it provide an effective and ecological solution for wastewater treatment, but also it will represent an innovative way of producing algal biomass, that will subsequently be valorized into different by-products, reducing the economic and environmental impact of the treatment.

Moreover, the project will also address cross-cutting barriers to innovation related to wastewater by developing a platform for the mobilization and networking of stakeholders from all the different sectors related to wastewater, and for the dissemination of results, enabling the development of a common roadmap for the alignment of legislation, regulation and pricing methodologies and promoting financial investment and paradigm shift in perception from 'wastewater treatment' to 'resource valorisation'.

Fields of science (EuroSciVoc) 

[engineering and technology](#) > [environmental engineering](#) > [water treatment processes](#) > **[wastewater treatment processes](#)**

[natural sciences](#) > [biological sciences](#) > [microbiology](#) > **[bacteriology](#)**

[natural sciences](#) > [biological sciences](#) > [microbiology](#) > **[phycology](#)**

[agricultural sciences](#) > [agricultural biotechnology](#) > **[biomass](#)**



Keywords

[Wastewater](#)

[saline](#)

[algae](#)

[bacteria](#)

Programme(s)

[H2020-EU.3.5. - SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials](#)

MAIN PROGRAMME

[H2020-EU.3.5.4. - Enabling the transition towards a green economy and society through eco-innovation](#)

Topic(s)

[WATER-1b-2015 - Demonstration/pilot activities](#)

Call for proposal

[H2020-WATER-2014-2015](#)

[See other projects for this call](#)

Sub call

H2020-WATER-2015-two-stage

Funding Scheme

[IA - Innovation action](#)

Coordinator



FUNDACION TECNOLOGICA ADVANTX

Net EU contribution

€ 229 072,83

Total cost

€ 229 072,83

Address

PASEO CASTELLANA NUM 141 PLANTA 18 EDIFICIO CUZCO
28046 MADRID

Spain

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Other

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Participants (24)



BIBOAQUA SL

Spain

Net EU contribution

€ 693 332,50

Address

PLAZA EUROPA ESC 4 PLANTA 5 PUERTA T 9
26500 Calahorra La Rioja

SME

Yes

Region

Noreste > La Rioja > La Rioja

Activity type

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

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 990 475,00



ARCHIMEDE RICERCHE SRL

Italy

Net EU contribution

€ 399 362,59

Address

VIA GROPALLO 3/9
16121 Genova



SME



Yes

Region

Nord-Ovest > Liguria > Genova

Activity type

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

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 679 750,01

THIRD-PARTY



A & A F.LLI PARODI SPA

Italy

Net EU contribution

€ 76 462,42

Address

CORSO EUROPA 24
20001 Inveruno Mi 

SME 

Yes

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



ALGEN, CENTER ZA ALGNE TEHNOLOGIJE, DOO

 Slovenia

Net EU contribution

€ 277 488,75

Address

BRNCICEVA ULICA 29

1231 Ljubljana 

SME 

Yes

Region

Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 396 412,50



KOTO PROIZVODNO IN TRGOVSKO PODJETJE DOO

 Slovenia

Net EU contribution

€ 285 569,25

Address

AGROKOMBINATSKA 80
1000 Ljubljana 

Region

Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type

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

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 407 956,07



ARAVA BUILDING AND DEVELOPMENT LTD

 Israel

Net EU contribution

€ 491 750,00

Address

SAPIR ISRAEL
86825 Sapir 

Activity type

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

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 702 500,00



DUBLIN CITY UNIVERSITY

 Ireland

Net EU contribution

€ 657 954,73

Address

Glasnevin

9 Dublin 

Region

Ireland > Eastern and Midland > Dublin

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 657 954,73



Fondazione Parco Tecnologico Padano

 Italy

Net EU contribution

€ 429 971,25

Address

Via Einstein - Loc. Cascina Codazza

26900 Lodi 

Region

Nord-Ovest > Lombardia > Lodi

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 429 971,25



OXIDINE WATER TECHNOLOGY SL

Spain

Net EU contribution

€ 227 416,88

Address

PARROQUIA DE MORUXO B-47-3 POLIGONO INDUSTRIAL DE BERGONDO

15165 Bergondo

Region

Noroeste > Galicia > A Coruña

Activity type

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

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 324 881,25



NOVA ID FCT - ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO DA FCT

Portugal

Net EU contribution

€ 640 450,00

Address

CAMPUS DE CAPARICA FACULDADE DE CIENCIAS E TECNOLOGIA DA UNIVERSIDADE

NOVA DE LISBOA

2829 516 Caparica

Activity type

Research Organisations

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 640 450,00



PRODUMIX SA

Spain

Net EU contribution

€ 330 597,75

Address

CAMINO DE ALBERITE 41
26006 Logrono

Region

Noreste > La Rioja > La Rioja

Activity type

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

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 472 282,50



EXTRACTIS

France

Net EU contribution

€ 580 408,75

Address

AVENUE PAUL CLAUDEL 33
80480 Dury

Region

Hauts-de-France > Picardie > Somme

Activity type

Research Organisations

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)

Total cost

€ 580 408,75



CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA SCIENZA E TECNOLOGIA DEI MATERIALI

 Italy

Net EU contribution

€ 430 000,00

Address

VIA GIUSTI 9

50121 Firenze 

Region

Centro (IT) > Toscana > Firenze

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 430 000,00



INSTITUTO DE BIOLOGIA EXPERIMENTAL E TECNOLOGICA

 Portugal

Net EU contribution

€ 469 987,50

Address

AVENIDA DA REPUBLICA QUINTA DO MARQUES

2781-901 Oeiras 

SME 

Yes

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 469 987,50



EUROPEAN BIOMASS INDUSTRY ASSOCIATION

 Belgium

Net EU contribution

€ 146 568,75

Address

ROND POINT SCHUMAN 6

1040 Bruxelles / Brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 170 756,25

 **THIRD-PARTY** 

ETA - ENERGIA, TRASPORTI, AGRICOLTURA SRL

 Italy

Net EU contribution

€ 16 931,25

Address

VIA ANTONIO GIACOMINI 28 STRADARIO M2192

50132 Firenze 

SME 

Yes

Region

Centro (IT) > Toscana > Firenze

Activity type

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

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

No data



ENCO SRL

Italy

Net EU contribution

€ 315 875,00

Address

VIA MICHELANGELO SCHIPA 115
80122 Napoli



SME



Yes

Region

Sud > Campania > Napoli

Activity type

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

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

€ 451 250,00



ASOCIACION CLUSTER FOOD+I

 Spain

Net EU contribution

€ 173 750,00

Address

POL TEJERIAS NORTE C/ LOS HUERTOS 2
26500 De Calahorra La Rioja 

SME 

Yes

Region

Noreste > La Rioja > La Rioja

Activity type

Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 262 500,00

 **THIRD-PARTY** 

CENTRO NACIONAL DE TECNOLOGIA Y SEGURIDAD ALIMENTARIA

 Spain

Net EU contribution

€ 88 750,00

Address

Carretera NA-134 km 50
31570 San Adrián 

Region

Noreste > Comunidad Foral de Navarra > Navarra

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



EUROPEAN DESALINATION SOCIETY

 Italy

Net EU contribution

€ 316 000,00

Address

VIA ALVARO DEL PORTILLO 21

00128 Roma 

Region

Centro (IT) > Lazio > Roma

Activity type

Other

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 316 000,00



RISE RESEARCH INSTITUTES OF SWEDEN AB

 Sweden

Net EU contribution

€ 510 377,49

Address

BRINELLGATAN 4

501 15 Borås 

Region

Södra Sverige > Västsverige > Västra Götalands län

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 513 752,49

 THIRD-PARTY 

RISE INNVENTIA AB

 Sweden

Net EU contribution

€ 3 375,00

Address

DROTTNING KRISTINAS VAG 61
114 86 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Research Organisations

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



OFFICINE MECCANICHE SANFILIPPO SRL

 Italy

Net EU contribution

€ 246 795,26

Address

VIA UNGARETTI GIUSEPPE 10 N
16157 Genova 

Region

Nord-Ovest > Liguria > Genova

Activity type

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

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 

Total cost
€ 352 564,66



INSPIRALIA SOCIEDAD LIMITADA 

 Spain

Net EU contribution
€ 256 070,92

Address
CALLE MANUEL TOVAR 49
28034 Madrid 

SME 
Yes

Region
Comunidad de Madrid > Comunidad de Madrid > Madrid

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

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
€ 365 815,60

Last update: 1 August 2024

Permalink: <https://cordis.europa.eu/project/id/689785>

European Union, 2025