

HORIZON
2020

Development of an Efficient Microwave System for Material Transformation in energy INTensive processes for an improved Yield

Fact Sheet

Project Information

DESTINY

Grant agreement ID: 820783

[Project website](#) 

DOI

[10.3030/820783](https://doi.org/10.3030/820783) 

Project closed

EC signature date

3 August 2018

Start date

1 October 2018

End date

31 March 2023

Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced manufacturing and processing

Total cost

€ 8 442 000,00

EU contribution

€ 7 058 006,25

Coordinated by

KERABEN GRUPO SA



Spain

Project description

Novel energy-efficient firing technology for granular feedstock

The threat of climate change has inspired industry leaders to utilise and integrate greener solutions in their manufacturing in order to decrease the impact of climate change. The EU-funded DESTINY project aims to offer one such solution in the form

of a novel technology for constant material processing that could be applied in energy-intensive industries. This technology will use microwave energy to reduce energy consumption, production and implementation costs and offer a greener option for firing granular feedstock. The DESTINY system will take the form of cellular kilns, enabling mobility and modularity.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [information engineering](#) > [telecommunications](#) > [radio technology](#) > **[microwave technology](#)**

[social sciences](#) > [economics and business](#) > [business and management](#) > **[business models](#)**

[natural sciences](#) > [computer and information sciences](#) > [software](#) > [software applications](#) > **[simulation software](#)**



Keywords

[Microwave firing process](#)

[cement industry](#)

[ceramic industry](#)

[steel industry](#)

[cellular kiln](#)

[rotary kiln](#)

[fluidized bed feeding](#)

[mobile plant](#)

[energy efficiency](#)

[environmental friendly](#)

Programme(s)

[H2020-EU.2.1.5. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced manufacturing and processing](#) MAIN PROGRAMME

[H2020-EU.2.1.5.3. - Sustainable, resource-efficient and low-carbon technologies in energy-intensive process industries](#)

Topic(s)

[CE-SPIRE-02-2018 - Processing of material feedstock using non-conventional energy sources \(IA\)](#)

Call for proposal

[H2020-NMBP-ST-IND-2018-2020](#)

[See other projects for this call](#)

Sub call

H2020-NMBP-SPIRE-2018

Funding Scheme

[IA - Innovation action](#)

Coordinator



KERABEN GRUPO SA

Net EU contribution

€ 503 912,50

Total cost

€ 719 875,00

Address

CTRA VALENCIA BARCELONA KM44.3

12520 Nules

 **Spain** 

Region

Este > Comunitat Valenciana > Castellón/Castelló

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](#) 

Participants (15)



INNCEINMAT SL

 Spain

Net EU contribution

€ 985 950,00

Address

AVENIDA FERRANDIS SALVADOR 5 ENTLO 6

12100 Castellon De La Plana 

SME 

Yes

Region

Este > Comunitat Valenciana > Castellón/Castelló

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

€ 1 408 500,00



ETHNICON METSOVION POLYTECHNION

 Greece

Net EU contribution

€ 503 750,00

Address

HEROON POLYTECHNIOU 9 ZOGRAPHOU CAMPUS

157 72 ATHINA 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 503 750,00



UNIVERSITA POLITECNICA DELLE MARCHE

 Italy

Net EU contribution

€ 597 500,00

Address

PIAZZA ROMA 22

60121 Ancona 

Region

Centro (IT) > Marche > Ancona

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 597 500,00



UNIVERSITAT POLITECNICA DE VALENCIA

 Spain

Net EU contribution

€ 596 250,00

Address

CAMINO DE VERA SN EDIFICIO 3A

46022 Valencia 

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

Higher or Secondary Education Establishments

Links

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

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

Total cost

€ 596 250,00



AL FARBEN SA

 Spain

Net EU contribution

€ 256 550,00

Address

PARTIDA TORRETA SN

12110 Alcora 

Region

Este > Comunitat Valenciana > Castellón/Castelló

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

€ 366 500,00



CHUMILLAS TECHNOLOGY SOCIEDAD LIMITADA

 Spain

Net EU contribution

€ 611 625,00

Address

CARRETERA DE ONDA KM 2

12540 Vila Real 

SME 

Yes

Region

Este > Comunitat Valenciana > Castellón/Castelló

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

€ 873 750,00



VDEH-BETRIEBSFORSCHUNGSINSTITUT GMBH

 Germany

Net EU contribution

€ 940 500,00

Address

SOHNSTRASSE 69
40237 Dusseldorf 

Region

Nordrhein-Westfalen > Düsseldorf > Düsseldorf, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 940 500,00



K1-MET GMBH

 Austria

Net EU contribution

€ 361 125,00

Address

STAHLSTRASSE 14
4020 Linz 

Region

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 361 125,00



DK RECYCLING UND ROHEISEN GMBH

 Germany

Net EU contribution

€ 217 875,00

Address

WERTHAUSER STRASSE 182

47053 Duisburg 

Region

Nordrhein-Westfalen > Düsseldorf > Duisburg, Kreisfreie Stadt

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

€ 311 250,00



CEMEX RESEARCH GROUP AG

 Switzerland

Net EU contribution

€ 19 177,21

Address

ROMERSTRASSE 13
2555 Brugg Bei Biel 

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Bern / Berne

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

€ 27 396,01



CIAOTECH Srl

 Italy

Net EU contribution

€ 215 687,50

Address

VIA PALESTRINA 25

00189 Roma 

Region

Centro (IT) > Lazio > Roma

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

€ 308 125,00



BELGISCH LABORATORIUM VAN ELEKTRICITEITSINDUSTRIE

 Belgium

Net EU contribution

€ 380 000,00

Address

RODESTRAAT 125

1630 Linkebeek 

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Halle-Vilvoorde

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

€ 380 000,00



INSTITUTO SUPERIOR TECNICO

 Portugal

Net EU contribution

€ 449 562,50

Address

AVENIDA ROVISCO PAIS 1

1049 001 Lisboa 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 449 562,50



PNO INNOVATION SL

 Spain

Net EU contribution

€ 114 187,50

Address

CALLE GRAN DE GRACIA 1 PLANTA 2 PUERTA 3
08012 BARCELONA 

Region

Este > Cataluña > Barcelona

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

€ 163 125,00



CEMEX INNOVATION HOLDING AG

 Switzerland

Net EU contribution

€ 304 354,04

Address

GENERAL-GUISAN-STRASSE 6
6300 Zug 

Region

Schweiz/Suisse/Svizzera > Zentralschweiz > Zug

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

€ 434 791,49

Last update: 28 December 2023

Permalink: <https://cordis.europa.eu/project/id/820783>

European Union, 2025

