

HORIZON
2020

An Eco-Innovative Alternative to Plywood

Fact Sheet

Project Information

ECOSHEET-PRO

Grant agreement ID: 766649

[Project website](#) 

DOI

[10.3030/766649](https://doi.org/10.3030/766649) 

Project closed

EC signature date

22 May 2017

Start date

1 June 2017

End date

31 December 2019

Funded under

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

Total cost

€ 3 183 977,50

EU contribution

€ 2 228 784,25

Coordinated by

I.C.M.A. SAN GIORGIO
INDUSTRIA COSTRUZIONI
MACCHINE E AFFINI SPA



Objective

ECOSHEET-PRO is an eco-innovative and cost effective alternative to plywood made from mixed plastic waste, suitable for high strength applications in the construction industry. This project will tackle two significant environmental challenges facing Europe, whilst also offering added value to the construction industry. The first issue addressed is that of mixed plastic waste. In Europe, in 2014, 18 million tonnes of post-consumer waste plastics were landfilled or incinerated, as they could not be easily separated and recycled. Alternative uses for such waste

must be found.

The second issue is the growth in the use of plywood, typically manufactured from slow-growing, tropical hardwoods. This material is a key, high volume commodity in construction industry formworks and an area the size of Madrid is deforested each year to meet Europe's demand.

ECOSHEET-PRO transforms mixed plastic that would otherwise be wasted into a competitive, reusable, plywood replacement. Previous attempts to create such boards have failed to deliver the required strength or cost effectiveness

required by industry. We have overcome these barriers through an innovative manufacturing process, which will be scaled up and refined during this project.

ECOSHEET-PRO has the potential to re-define the €1.8 billion European plywood industry and help Europe meet its demanding plastic recycling targets, contributing to the circular economy. Our success stems from bringing together the complementary expertise of two eco-innovative SMEs from Italy and the UK, both with a strong ambition to grow and internationalise.

Across a network of 13 facilities in 2023, ECOSHEET-PRO will create 77 jobs, generate annual revenues of over €76.5 million, annual profits of €26.8 million, and transform >221,000 tonnes of waste into valuable products.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [mechanical engineering](#) > [manufacturing engineering](#)

[engineering and technology](#) > [environmental engineering](#) > [waste management](#) > [waste treatment processes](#) > [recycling](#)

[natural sciences](#) > [chemical sciences](#) > [polymer sciences](#)

[engineering and technology](#) > [chemical engineering](#) > [separation technologies](#)

[social sciences](#) > [economics and business](#) > [economics](#) > [sustainable economy](#)



Programme(s)

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

MAIN PROGRAMME

Topic(s)

[SMEInst-11-2016-2017 - Boosting the potential of small businesses in the areas of climate action, environment, resource efficiency and raw materials](#)

Call for proposal

[H2020-SMEInst-2016-2017](#)

[See other projects for this call](#)

Sub call

H2020-SMEINST-2-2016-2017

Funding Scheme

[SME-2 - SME instrument phase 2](#)

Coordinator



I.C.M.A. SAN GIORGIO INDUSTRIA COSTRUZIONI MACCHINE E AFFINI SPA

Net EU contribution

€ 1 751 690,50

Total cost

€ 2 502 415,00

Address

VIA MADONNINA 75

20010 SAN GIORGIO SU LEGNANO

 **Italy** 

SME 

Yes

Region

Nord-Ovest > Lombardia > Milano

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 (1)



ENVIRONMENTAL TECHNOLOGY EVOLUTION LTD

 United Kingdom

Net EU contribution

€ 477 093,75

Address

4 LANSDOWNE TERRACE

NE3 1HN NEWCASTLE UPON TYNE 

SME 

Yes

Region

North East (England) > Northumberland and Tyne and Wear > Tyneside

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

€ 681 562,50

Last update: 4 September 2022

Permalink: <https://cordis.europa.eu/project/id/766649>

European Union, 2025

