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Contact
Sara Gutiérrez González
Scientific Project Manager
University of Burgos
sggonzalez@ubu.es

You can find us on
life-repolyuse.com
@LifeRepolyuse
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What is Life-Repolyuse?

LIFE-REPOLYUSE is an European Union project which approaches the problem of the management of polyurethane foams (PU) waste currently disposed as inert waste and landfill with the consequent environmental impact.

The pilot project seeks to provide a solution to the problem of the generation of polyurethane waste in the industry, which in Europe alone represents approximately 675,000 tons per year. Depending on the waste valorization policies of each country in the EU, approximately 68% is landfilled and 32% is recovered by recycling techniques or energy valuation.

LIFE REPOLYUSE aims to develop and implement a new technology which reduces this type of waste at source and integrates it in new construction materials (prefabricated plaster tiles for ceilings), thus extending the life cycle of the waste.

This purpose contributes to the achievement of the objectives of the Roadmap towards an efficient Europe in the use of resources and supports the execution of the VII Environment Program.



Who is part of the Project?

The project consortium consists of four partners: the University of Burgos (Spain), Exergy Ltd. (United Kingdom), TECSA Empresa Constructora, S.A (Spain) and Yesyforma Europa, S.L. (Spain).

- The Research Group in Building Engineering (GIIE) of the University of Burgos (UBU) leads this project. Its activity is focused on finding new alternatives to traditional materials by recycling industrial waste for the production of useful products for use in construction.
- EXERGY LTD is an internationally recognized high-tech engineering company specializing in the areas of Built environment, sustainable construction and energy efficiency. Its services of design, management, financing, construction, monitoring and analysis of environmental, social and economic impact are aimed at achieving a sustainable and low carbon future.
- TECSA with more than 80 years of experience belongs to the largest group of services and construction at a global level (ACS group). Its activity focuses on the construction of large transport infrastructure projects (railways, highways and roads) as well as industrial and urban development works, environmental works and residential and non-residential buildings.
- YESYFORMA EUROPA is a leader in the sector of prefabricated false ceilings of plaster, being a benchmark in quality and variety in Europe. They are specialists in the marketing and export of these types of products, offering the best plaster solutions to distributors, installers, prescribers and individuals.

Aims



To maximise the reuse of PU waste by integrating it into a new gypsum-based construction material, thus extending the life cycle of the waste.



To reduce the carbon footprint of the material avoiding the incineration of PU waste. To reduce energy consumption compared to current manufacturing processes and improve the energy efficiency of buildings through the use of this new material.



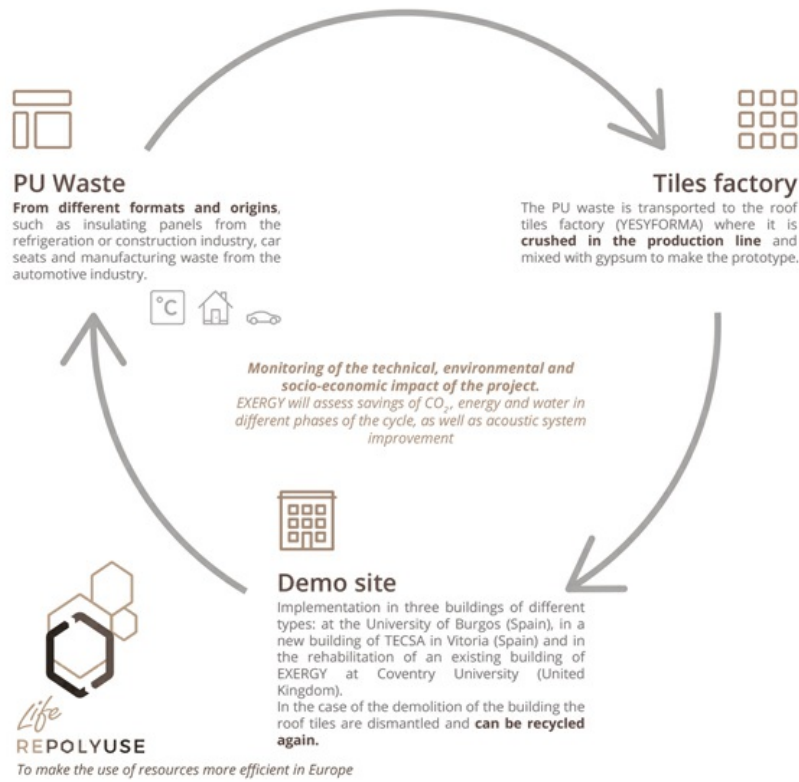
To transfer and replicate the Life-Repolyuse technology in other EU countries.



To promote sustainability in the management of PU waste.

Project Phases





News and events

Dissemination workshop: New construction materials

The IES Enrique Flórez (Burgos) attended a day of dissemination in the Construction Materials Workshop of the Higher Polytechnic School (UBU). Students were introduced to the research carried out by the Building Engineering Research Group, in New Construction Materials within the LIFE REPOLYUSE project, using industrial waste for manufacturing.



Leer más.



1st Progress meeting_ REPOLYUSE

The European LIFE REPOLYUSE project, led by the UBU, held its first progress meeting in Bilbao on 13 March. The project has 3 companies as beneficiary partners: Exergy Ltd. (United Kingdom), TECSA Empresa Constructora, S.A (Spain) and Yesyforma Europa, S.L. (Spain). The

purpose of the meeting was to present the technical advances and the financial status of the project, as ...

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Tests in Yesyforma factory

The workshop tests carried out at UBU are at real scale at the factory facilities of Yesyforma in Zaragoza.

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Project meeting with Yesyforma in the facilities of University of Burgos

In the Life-Repolyuse Project, gypsum boards for ceilings will be manufactured to real scale, adding industrial polyurethane residues to their matrix. The project includes meetings with the partner within the consortium leading the manufacturing

of the tiles (Yesyforma), to optimize the mixture of plaster and polyurethane.

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Meeting with Albera Medioambiente S.L.

Members of the UBU and Albera Medioambiente S.L. , company of services for environmental consulting, meet to establish areas of collaboration within the framework of the Life-Repolyuse Project.

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Students of IES "Tierra de Alvargonzález" build an efficient house

The University of Burgos brings closer its degrees related to the technical sciences to the 4th graders of the E.S.O. with the Workshops Engineer Apprentice Within this activity, the IES "Tierra de Alvargonzález" of Quintanar de la Sierra (Burgos),

attended the Sustainable Construction Workshop: "Build in green" Design and create your efficient home respecting the environment. Manufacturing of plasterboard with ...

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Workshop "Design of new plaster materials with polyurethane waste"

Posted on December 20, 2017 by ubu.es

<http://www.ubu.es/agenda/taller-diseno-de-nuevos-materiales-de-yeso-con-residuos-de-poliuretano>

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Visit to the facilities of YESYFORMA

The members of the consortium visited the facilities of Yesiforma and the possibilities of polyurethane processing system implantation were analysed (plant location, way of waste input, processed, etc.)

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Visit to the facilities of Paneles Aislantes Peninsulares, Cuenca (Spain)

The members of the consortium visited the facilities of Paneles Aislantes Peninsulares (PAP), Spanish company based in Cuenca dedicated to the manufacture of insulating panels (PUR) (PIR). Their contribution to the Project is based on the supply of polyurethane waste and on the provision of its facilities for the start-up of the LIFE-



REPOLYUSE pilot. Antonio Garcia and Emilio Ruiz from ...

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Kick-Off Meeting

The 7th of November was celebrated at the University of Burgos the Kick-Off meeting of the European project LIFE-REPOLYUSE, led by the UBU, and which aims are to increase the reuse of polyurethane waste and its integration in new construction materials. The project is co-financed

by the LIFE program of the European Union.

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Partners

ubu.es | exergy.uk.com | grupoacs.com | yesyforma.es



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