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Life REFIBRE partners

BLASGON

CENTRO TECNOLÓGICO CARTIF

INSTITUTO DE LA CONSTRUCCION DE CASTILLA Y LEON

incosa
Investigación y Control de Calidad S.A.

sgc
sangregorio
CONSTRUCCION

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LIFE REFIBRE Project will recover wind turbine blades waste to improve the asphalt road Surface.

Spain is the second European country and the fourth worldwide country with more wind power set up.

Therefore, LIFE REFIBRE is proposed to solve the environmental problem that supposes the accumulation of a big quantity of blades waste in landfill. Those are not biodegradables and occupy a large volume due to their size which supposes a problem in the landfills.

LIFE REFIBRE project proposes to develop an integrated management of this waste once its useful life ends with a double objective: 1. promote the complete and high quality recyclability of one of its compounds, fiberglass (GRP), and 2. provide them with a second life cycle for a high added value application: their incorporation into the asphalt agglomerate.

LIFE REFIBRE

High value asphalt pavements with glass fibre from sustainable recycling

Beyond dumping sites.

Another life for the glass fibres of the aerogenerator blades

LIFE Refibre

Life

LIFE REFIBRE project (LIFE16 ENV/ES/000192) has been approved in 2016 LIFE Programme. LIFE is the EU's financial instrument supporting environmental and nature conservation projects throughout the EU.

The Construction Institute of Castilla and Leon, together with Blasgon, CARTIF Technology Center, Incosa and Contratas y Obras San Gregorio, have launched this project to valorize and close the life cycle of wind turbine blades waste.

The duration of LIFE REFIBRE project is three years, starting on 01/10/2017 and ending on 30/09/2020.

Through LIFE REFIBRE project, an innovative and exclusive prototype will be designed and built for the recycling of wind turbine blades in order to obtain glass fibres. These fibres will be introduced in asphalt mixes for the construction of 1,500 meters section, which will be monitored and analyzed to check the improve of their mechanical properties. The project partners foresee improvements such as increasing their durability and resistance to deformation and fatigue, or reducing maintenance actions.

LIFE REFIBRE will close the life cycle of this waste, providing a high added value to both waste and the new fibre application.

E1.
Project management

E2.
Post-LIFE communication plan

Total Project budget: 1.789.539 €
EU financial contribution: 1.073.187 €
Project duration: 01/10/2017 – 30/09/2020

B1.
Collection, logistic and waste pretreatment of wind turbine blades

B2.
Design and construction of the recycling prototype of wind turbine blades waste

B3.
Incorporation of recycled glass fibres into asphalt agglomerate

B4.
Manufacturing of road demonstration sections

D2.
Networking

D1.
Dissemination plan

C1.
Environmental monitoring impact of the project actions (LCA)

C2.
Socio-economic monitoring impact of the project