

PRESS RELEASE



A novel technology for producing bio-based synthetic textile fibres from biomass-derived furanic monomers <http://ecolastane.eu/>

EcoLASTANE EcoLASTANE is a 7th Framework Program project (FP7-SME-2012-2) funded by the European Commission with the objective of developing a novel technology for producing bio-based synthetic textile fibres from biomass-derived furanic monomers.

EcoLASTANE will develop a synthetic textile fibres with a 70%-100% bio-based content. Bio-based elastane and polyester will be produced by optimising an industrial technology which, starting from lignocellulosic feedstocks (wood, crop residues, etc), produces 100% bio-based chemicals (furfural, HMF, THF and FDCA). EcoLASTANE will optimise the synthesis of furfural in Europe by different complementary measures: increasing yield, reducing costs, recovering solvents and acetic acid, valorising cellulose for the production of HMF (bio-based monomer with a huge potential still not brought to industrial scale) and producing an in-plant burnable bio-char from lignin to generate heat. From furfural EcoLASTANE will optimise the synthesis of 100% bio-based THF, a starting material accounting for 70% of the mass of an elastane elastic fibre. From HMF EcoLASTANE will develop a new 100% bio-based polyester textile fibre.

EcoLASTANE project is composed of 9 partners from four European countries:

- ✓ Asociación Murciana De Industrias Químicas – AMIQ – Spain / Coordinator
- ✓ Technical Textiles Rhône-Alpes – TECHTERA- France / Dissemination manager
- ✓ Czech Biomass Association - CZ Biom - Czech Republic / Exploitation manager
- ✓ NUTRAFUR SA – NUTRA - Spain
- ✓ RAIDLIGHT VERTICAL – RAIDLIGHT -France
- ✓ Corderie Meyer-Sansboeuf – MEYER- France
- ✓ Tecnicas Reunidas – TR - Spain
- ✓ The Centre for Research & Technology, Hellas - CERTH – Greece
- ✓ Tecnologías Avanzadas Inspiralía SL –INSP – Spain / Technical manager



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