TECNICAS REUNIDAS

BUILDING BLOCKS FROM C6 SUGARS FROM LIGNOCELLULOSIC BIOMASS (WALEVA-TECH PROJECT)

PROJECT FACT SHEET

Call	Proyectos de Investigación y Desarrollo (PID)
Funding Entity	Centro para el Desarrollo Tecnológico Industrial (CDTI) 
Duration	2019 - 2020
Budget	1.024.526 €

DESCRIPTION

WALEVA-TECH project aims to demonstrate a new biorefinery process to obtain high added value products from the C6 sugar fraction of lignocellulosic biomass.

The WALEVA-TECH project is based on thermochemical transformations of lignocellulosic raw materials in order to produce chemical building blocks considered strategic by the chemical industry. Specifically, work will be done on the production of levulinic acid (LEVA) and its derivative gamma-valerolactone (GVL).

A successful industrial implementation of WALEVA-TECH will allow:

- The world's first industrial production of levulinic acid. Therefore, contribute to the formalization of a market still non-existent due to the impossibility of producing LEVA in profitable and sustainable conditions.
- Offer WALEVA-TECH technology as profitable way to valorize lignocellulosic biomass, thus contributing to a low carbon economy.
- The chemical transformation of levulinic acid in gamma-valerolactone, thus obtaining a biorefine technology platform able to obtain two products with high added value from complex treatment biomass.
- Position Técnicas Reunidas (TR) as technologist and reference engineer in processes of transformation of biomass into strategic chemical monomers for diverse applications such as: fermentation, biofuels, pharmaceutical, food, flavorings, chemical additives, resins , plastics, new generation materials, hygiene / health and personal care.