BETARENEWABLES

COMPANY PROFILE

Beta Renewables is a joint venture established in 2011 between Biochemtex, part of the Mossi Ghisolfi Group of companies and global private equity firm TPG. In late 2012 Novozymes, the world leader in bioinnovation, acquired a 10% share in Beta Renewables for $ 115 million (€ 90M).

Biochemtex belongs to the "green chemistry" business of the Mossi Ghisolfi Group. The Group, through M&G Chemicals, is one of the world's leading producers of PET resin. The Mossi Ghisolfi Group has operations in Brazil, Mexico, China, India, the USA and Italy. The company has a track record of 60+ years in process development and industrial innovation, successfully commercialized in hundreds of plants worldwide.

Beta Renewables has invested over $200 million (€ 150million) in the development of the Proesa™ process. The company designed and built the world's first commercial-scale cellulosic ethanol facility in Crescentino, Italy, that started operations at the beginning of 2013.

HEADQUARTERS AND AFFILIATES

Beta Renewables headquarter is located in Tortona, Italy, in the heart of Northern Italy's "business triangle" between Milan, Turin and Genoa.

WHAT PROESA™ DOES

The Proesa™ process is a second-generation cellulosic biomass technology. It takes non-food biomass, like energy crops (such as giant reed, miscanthus or switchgrass) or agricultural waste (such as sugarcane bagasse and straws) and turns it into high-quality, fermentable C5 and C6 sugars.

These sugars can then be used to produce biofuels and other petrochemical replacements with a smaller environmental footprint than fuels and chemicals made from oil or natural gas.

The patent-pending Proesa™ process is designed to minimize both capital expenditures and operating costs. This allows for more profitable production by partners that license our technology and a faster market adoption in the marketplace.

KEY FIGURES OF THE WORLD'S LARGEST CELLULOSIC ETHANOL PLANT

150 MLN €: 5 year investment in R&D

150 MLN €: investment for the plant construction

13 MLN/year: production of second generation bioethanol

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