

The construction of the Leuna demo plant is completed

Evry (France) and Leuna (Germany), 14 November 2016 - Global Bioenergies announces today that the construction of its demo plant, started mid-2015, is now completed.

Global Bioenergies' Demo plant is the only facility in the world dedicated to the direct fermentation of gaseous hydrocarbons. It is located in the facility owned by the Fraunhofer CBP, on the Leuna refinery platform. It was financed in part by the German federal ministry for research (BMBF) through a grant of €5.7m, and also through a €4.4m loan obtained from a consortium of French banks (Société Générale, BNP-Paribas, CM-CIC and BPI).

Having a nameplate capacity of 100 tons/year, the Demo plant will allow the conversion of various resources (industrial-grade sugar from beets and cane, glucose syrup from cereals, second generation sugars extracted from wheat straw, bagasse, wood chips...), into high-purity isobutene. Photographs of the Leuna Demo plant are available [here](#).

Isobutene is a platform molecule. In the fuel sector, it is presently used to manufacture isooctane, ETBE and MTBE which are valuable compounds used in gasoline mixes. It can also be converted into isododecane, a compound found in jet fuel. Isobutene is also used to manufacture a wide variety of materials and chemicals such as rubbers, plastics, organic glass, paints and cosmetics. Scaling-up Global Bioenergies' technology to commercial scale will enable significant carbon footprint reductions in these key industrial domains.

Rick Bockrath, Global Bioenergies' VP for Chemical Engineering, states: "The design of this Demo plant is unique. It borrows both from the fermentation and the petrochemical worlds. We are now eager to obtain the Plant certification from the TÜV, the German certification authority, and expect to bring this Demo plant to life over the coming weeks."

Ales Bulc, CEO of Global Bioenergies' German subsidiary, states: "Building this Demo plant was a long journey and has involved numerous subcontractors. Global Bioenergies' Leuna team assumed the role of General Contractor: Synchronizing these entities was a very complex task, but it kept the technological know-how in-house. Our success today in reaching completion demonstrates our ability to successfully execute highly innovative technology projects."

Marc Delcourt, CEO of Global Bioenergies, adds: "In the next months and years, our Leuna Demo plant will allow us to further validate the technology in an industrial environment and to deliver ton-scale batches to various industrialists. We expect numerous new collaborations with industrialists to be set up once the Demo plant is in operations."

About GLOBAL BIOENERGIES

Global Bioenergies is one of the few companies worldwide, and the only one in Europe, that is developing a process to convert renewable resources into hydrocarbons through fermentation. The Company initially focused its efforts on the production of isobutene, one of the most important petrochemical building blocks that can be converted into fuels, plastics, organic glass and elastomers. Global Bioenergies continues to improve the performances of its process, operates its industrial pilot, is completing the construction of its demo plant in Germany, and prepares the first full-scale plant through a Joint-Venture with Cristal Union, named IBN-One. The company also replicated its achievement to propylene and butadiene, two members

of the gaseous olefins family, key molecules at the heart of petrochemical industry. Global Bioenergies is listed on Alternext, Euronext Paris (FR0011052257 – ALGBE).

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Photographs of the Leuna Demo plant are available [here](#)

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