



GLOBAL BIOENERGIES



Global Bioenergies and SkyNRG announce their collaboration on ASTM-certification of a bio-isobutene feedstock and conversion process for the production of sustainable aviation fuel

Evry/ Amsterdam, April 17th, 2018: Global Bioenergies (GBE), the company developing a breakthrough process converting renewable resources into isobutene, and SkyNRG, world market leader in sustainable aviation fuel (SAF), will work together to accelerate the commercialization of Global Bioenergies' approach to process isobutene into a jet fuel blending component. The companies will work towards the aviation industry's approval allowing addition of Global Bioenergies' isobutene-based SAF into ASTM D7566, the predominant jet fuel specification used by the industry, thereby enabling commercial use by airlines as quickly as possible.

The first batches of the bio-isobutene-based SAF were produced by Global Bioenergies in Leuna (Germany) and sent to SkyNRG for preliminary analysis, laying the basis for Tier 1 of the ASTM evaluation process. The evaluation process includes up to 4 stages: from Tier 1 up to Tier 4 (as described in ASTM Standard Practice D4054). Tier 1 tests consist of the analysis of physical and chemical properties of the fuel, such as: composition, volatility (distillation curve and density), fluidity (freezing point and viscosity), net heat of combustion, corrosion and thermal stability.

The SAF batches are mainly composed of C12 iso-paraffins with very good "cold-flow" properties, high octane and an energy content in the jet fuel range. The targeted C12 iso-paraffin molecules are the same as those present in conventional jet fuel. The product was obtained through oligomerization and hydrogenation of bio-isobutene. Both the pure product as well as a blend with fossil based kerosene will be evaluated. Global Bioenergies' high-quality SAF can be produced from forestry or agricultural wastes.

Misha Valk, Head of Business Development at SkyNRG says: *"We're excited to work together with Global Bioenergies towards the commercialization of this new production pathway for sustainable aviation fuel. We think highly of Global Bioenergies' fuel, because it has the potential to be scalable and cost effective, without sacrificing performance."*

Bernard Chaud, Chief Industrial Strategy Officer at Global Bioenergies, declares: *"We look forward to working together on aviation industry approval of our approach with our partner SkyNRG. Interest for sustainable aviation fuel is currently rising in Europe and all around the world because it is an essential solution to decarbonize this industry. We expect that initiatives to be taken by governments will soon widely foster the market uptake of sustainable aviation fuel."*

Marc Delcourt, Chief Executive Officer at Global Bioenergies, concludes: *“Jet fuel is the fastest developing segment in oil products, growing at a pace of 4-5% per year. This industry will rely on sustainable aviation fuel for a crucial contribution to reduce its carbon footprint. After having shown last week the reality of renewable gasoline in a first car on the road event with our partner Audi, we will soon show that our sustainable aviation fuel has a unique potential to concretely decarbonize the skies.*

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 performance of its process, to operate its demo plant in Germany, and to prepare the first full-scale plant through a joint venture with Cristal Union, named IBN-One. Global Bioenergies is listed on Euronext Growth Paris (FR0011052257 – ALGBE)

About SkyNRG

SkyNRG is the global market leader for sustainable aviation fuel (SAF), having supplied over 25 airlines on all continents. SkyNRG sources, blends and distributes SAF, guarantees sustainability throughout the supply chain and helps to co-fund any price premium versus conventional jet fuel. At the same time, SkyNRG focuses on developing regional supply chains that offer a real sustainable and affordable alternative to fossil fuels. SkyNRG has its operations RSB certified and is structurally advised by an independent [Sustainability Board](#) in which WWF International, European Climate Foundation, Solidaridad Network and the University of Groningen hold a seat. www.skynrg.com

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