

SAF PILOT PLANT IS FUELING THE FUTURE

A STATE-OF-THE-ART CONTINUOUS PILOT PLANT FOR E-FUELS



Microinnova is proud to announce the successful completion and delivery of a state-of-the-art continuous pilot plant for Sustainable Aviation Fuel (**SAF**). Built for the **Technical University of Leoben**, this turnkey facility represents a significant leap forward in research and process development of sustainable aviation fuels.

Driving Global Decarbonization Goals

SAF is currently the most viable solution to decarbonize long-haul flights, capable of **reducing lifecycle carbon emissions by up to 80%** compared to conventional jet fuel.

Professor Markus Lehner, Head of the Chair of Process Technology and Industrial Environmental Protection at the Technical University of Leoben, comments: "This facility is a significant milestone for sustainable, climate-neutral, and affordable mobility, including air travel. It positions Austria and the research scene in Styria as a leading innovation hub in the field of civil aviation."

The Advantage of Continuous Flow and Flexibility

Microinnova's plant technology enables the development of efficient processes. This approach provides advantages for the future of fuel production:

- **Continuous Flow Processing:** Sustainable hydrocarbon production requires precise control over complex reaction processes. Continuous processes ensure superior heat and mass transfer. This allows the development of high-quality products as basis for scale-up.

The delivery of this modular plant underscores Microinnova's commitment to providing the process technology required for a sustainable, carbon-neutral future.

Reactor System Design & Specifications	
Reactor Configuration	4 Fixed Bed Reactors
Flow Rate Range	90 to 4500 NI/h
Operating Temperature	-10°C to 500°C
Maximum Pressure	100 bar
Material / Metallurgy	Alloy 800
Process Capability	Up to 10 different processes
Physical Dimensions	12 x 2 x 3 meters

Our experts are looking forward to your inquiries about our plant systems!
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