MTU Aero Engines displays future-oriented propulsion concepts at the Dubai Airshow

Munich, November 6, 2023 – MTU Aero Engines will be presenting its vision for tomorrow with its innovative commercial propulsion concepts of the Water-Enhanced turbofan (WET) and Flying Fuel Cell™ (FFC) at the Dubai Airshow from 13th-17th November. The company can be found at booth 830 and will also be displaying an EJ200 engine that powers the military aircraft Eurofighter Typhoon, as well as its maintenance, repair and overhaul (MRO) expertise in a multimedia exhibit.

“We are delighted to be exhibiting at the Dubai Airshow once again and cannot wait to meet with customers, partners and interested parties,” says Michael Schreyögg, Chief Program Officer, MTU Aero Engines. “The Middle East is an extremely important region for MTU, both with regard to future-oriented technology and sustainable solutions, but also as a successful and growing aviation market with very specific maintenance needs.”

**Future-oriented technology**

Zero-emission flight is the big goal for commercial aviation, and it is MTU’s vision. To this end, MTU’s engine experts have formulated ground-breaking future-oriented solutions in their Clean Air Engine (Claire) technology agenda: evolutionary further developments of the aircraft gas turbine, based on the Geared Turbofan, and revolutionary engine concepts like the Water-Enhanced Turbofan and the Flying Fuel Cell.

On display in Dubai, the WET concept is a gas turbine that combines energy recovery and wet combustion and can be applied in all thrust and power categories. When powered by SAF or hydrogen, it has the potential to reduce the climate impact of aircraft by about 80 percent by 2035.

Visitors will also be able to view a FFC model at MTU’s booth. Scheduled for completion by 2035, the FFC will covert hydrogen into electricity, initially for short-haul routes and regional air traffic. MTU is working on the entire hydrogen-powered fuel cell powertrain, including the liquid hydrogen fuel system and controls. The electric motor is being developed by eMoSys, a 100% subsidiary of MTU Aero Engines. The FFC emits only water and can reduce climate impact by 95 percent. The intention is to then further develop this concept for medium-range aircraft by 2050.

**Unrivalled expertise**

Furthermore, MTU’s MRO team will be there to answer any questions on the MTU Maintenance product and service spectrum, including asset management and engine leasing the over 30 engine types it maintains. MTU Maintenance ranks among the top three providers of aftermarket services worldwide and has over 30 engine types in its portfolio. It draws on more than 40 years of experience and has handled over 22,000 shop visits. Through its global service network, the company offers guaranteed customer proximity and has a presence in all important growth regions including the Middle East, having established a representative office in Dubai in 2020.

**About MTU Aero Engines**

MTU Aero Engines AG is Germany's leading engine manufacturer. The company is a technological leader in low-pressure turbines, high-pressure compressors, turbine center frames as well as manufacturing processes and repair techniques. In the commercial OEM business, the company plays a key role in the development, manufacturing and marketing of high-tech components together with international partners. Some 30 percent of today’s active aircraft in service worldwide have MTU components on board. In the commercial maintenance sector the company ranks among the top 3 service providers for commercial aircraft engines and industrial gas turbines. The activities are combined under the roof of MTU Maintenance. In the military arena, MTU Aero Engines is Germany's industrial lead company for practically all engines operated by the country’s military. MTU operates a network of locations around the globe; Munich is home to its corporate headquarters. In fiscal 2022, the company had a workforce of more than 11,000 employees and posted consolidated sales of 5.3 billion euros.

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