



PRESS RELEASE

Official Roll-Out of the APUS i-2: Unveiling the World's First Certifiable Hydrogen-Powered Aircraft

Strausberg, September 6, 2024 – This past weekend, APUS Zero Emission GmbH celebrated the official roll-out of its emission-free aircraft, the APUS i-2.

In perfect sunny weather, Brandenburg's Minister of Economic Affairs, Prof. Dr. Jörg Steinbach, alongside APUS CEO Phillip Scheffel, opened the event at the Strausberg airfield in front of nearly 300 invited guests, delivering the heartfelt congratulations of the state of Brandenburg.

In his speech, Phillip Scheffel emphasized the tremendous efforts of his team: “Without the outstanding work and dedication of our team, this success would never have been possible. Together, we have redefined the boundaries of modern aviation.”

The APUS i-2 is the world’s first emission-free aircraft designed for daily use. As a four-seat normal-category (CS-23) aircraft, the APUS i-2 has a maximum take-off weight (MTOW) of 2,200 kg, a range of 500 nautical miles (900 km), and a cruising speed of up to 160 knots (KTAS). These performance figures are comparable to most modern four-seat aircraft.

The propulsion system of the APUS i-2 is based on an innovative hydrogen fuel cell, making the aircraft 100% emission-free – no CO₂, no NO_x – a true revolution in emission-free aviation. This is made possible by APUS's patented structurally integrated hydrogen storage system, which allows for up to 25% higher specific energy density than conventional hydrogen tanks and up to ten times better energy density than battery-electric aircraft. Additionally, this system avoids the use of rare minerals commonly found in batteries.

Technical Specifications of the APUS i-2:

- Range: 500 nautical miles / 900 km
- Passenger capacity: 1 pilot + 3 passengers
- Wingspan: 13.2 m
- Length: 8.9 m
- Maximum altitude: 4,000 m (current propulsion)
- Maximum take-off weight (MTOW): 2,200 kg
- Maximum speed: 160 knots (KTAS)
- Planned price: approximately 1.1 million euros
- Power output: 2x 135 kW take-off power, 2x 100 kW fuel cell

Next Steps:

- First flight: End of 2024 / beginning of 2025
- Certification: Planned by 2027, with additional 9-seat and 19-seat models in development
- Market launch: Expected in 2028

Following the roll-out, APUS will begin a period of intensive testing, during which the APUS i-2's systems will be further optimized, and the final preparations will be made for her maiden flight. The experience gained through the design and operation of this aircraft has built a strong platform upon which to develop the version 2.0 of the propulsion system, and to bring APUS's patented structurally integrated hydrogen storage system to market. APUS plans to deliver the first aircraft starting in 2028, driving forward the green revolution in aviation.

About APUS Zero Emission GmbH

APUS represents a new era in aviation, with emission-free hydrogen aircraft, excellent aviation engineering services, and sustainable STC conversion kits. It takes both major innovations and many small improvements to finally make flying climate-neutral.

As an aircraft manufacturer, APUS aims to become the world's first provider of certified aircraft powered by green hydrogen as an energy source. APUS is also an EASA-certified design organization, offering high-level aviation engineering services. The company's research and development focus includes innovative propulsion systems for aviation, aero-mechanical design, structural design, CAD, and certification of aviation systems.

Founded in 2014 by Phillip Scheffel as an aviation design office, APUS has been working on the future of emission-free flying ever since. Today, the company is headquartered in Strausberg near Berlin and employs 70 staff members.

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