

PRESS RELEASE

VoltAero selects Safran's ENGINEUS™ 100 electric motor to equip the Cassio 330 electric-hybrid aircraft prototype

Farnborough International Airshow - July 20, 2022

VoltAero's prototype Cassio 330 will utilize Safran Electrical & Power's ENGINEUS™ 100 smart electric motor in the aircraft's parallel electric-hybrid propulsion system, with the agreement for its supply signed today at the UK's Farnborough International Airshow.

The ENGINEUS™ 100 will have a maximum rating of well above 150 kW at takeoff and is to be integrated along with a 150-kW thermal engine in VoltAero's proprietary hybrid propulsion unit on the Cassio 330. Features of the ENGINEUS™ 100 include an integrated motor controller and an optimized air-cooling system for thermal management.

Under terms of the agreement, Safran Electrical & Power will deliver an ENGINEUS™ 100 motor before year-end for ground-based endurance testing of the electric-hybrid propulsion system. The supply of a flight qualified ENGINEUS™ 100 will follow in 2023, enabling the startup of flight testing with the Cassio 330 prototype. Certification of the electric motor is scheduled for mid-2023.

"This marks another important step toward the Cassio 330's first takeoff, initiating the certification program for our Cassio family of airplanes," said Jean Botti, VoltAero's CEO and Chief Technology Officer. "Cassio will benefit from the high-power density and proven technology that Safran Electrical & Power has applied in its ENGINEUS™ electric motor product line."

VoltAero will produce Cassio airplanes in three versions, each sharing a high degree of modularity and commonality. First to be certified is the Cassio 330, with a capacity of four/five seats and powered by the 330-kW electric-hybrid propulsion system. The follow-on six-seat Cassio 480 will have a combined electric-hybrid propulsion power of 480 kilowatts, while the Cassio 600 is sized at a 10/12-seat capacity with electric-hybrid propulsion power of 600 kilowatts.

The electric-hybrid propulsion system will be installed in the Cassio's aft fuselage, driving a pusher propeller. VoltAero's design for the Cassio aircraft family is based on a sleek, aerodynamically optimized fuselage, a forward canard, and an aft-set wing with twin booms that support a high-set horizontal tail.

VoltAero already has gained significant experience with ENGINEUS™ motors, having logged more than 10,000 km. since 2019 during flights with its Cassio 1 testbed aircraft – which incorporates two ENGINEUS™ 45 versions (rated at 45 kW of continuous power) installed on the wings.

"The ENGINEUS™ 100 agreement signed today extends our excellent partnership with VoltAero that began in 2019, and it reinforces our common vision for carbon-free aviation," stated Bruno Bellanger, Safran Electrical & Power's Executive Vice President and General Manager for Power division. "This is another success for our ENGINEUS™ range of engines, ideally positioned in the general aviation market for electric aircraft, and it represents a further step towards zero-emission airplanes."

Safran Electrical & Power's ENGINEUS™ product line includes a wide range of electric motors with power ratings up to 500 kW.

Safran is an international high-technology group, operating in the aviation (propulsion, equipment and interiors), defense and space markets. Its core purpose is to contribute to a safer, more sustainable world, where air transport is more environmentally friendly, comfortable and accessible. Safran has a global presence, with 76,800 employees and sales of 15.3 billion euros in 2021, and holds, alone or in partnership, world or regional leadership positions in its core markets.

Safran is listed on the Euronext Paris stock exchange and is part of the CAC 40 and Euro Stoxx 50 indices.

Safran Electrical & Power is one of the world's leaders in aircraft electrical systems. The company is a key player in equipment electrification and in the electric and hybrid propulsion sector. It has 11,500 employees across 13 different countries.

For more information: www.safran-group.com



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VoltAero is taking electric aircraft to an entirely new level. Benefitting from 80-plus years of combined pioneering expertise, VoltAero is developing a truly unique general aviation airplane family – Cassio – for safe, quiet, efficient and eco-friendly flight in hybrid-electric and electric modes. A flight demonstrator aircraft is validating the Cassio hybrid-electric powertrain, de-risking it for airworthiness certification and the subsequent application on VoltAero's new-production airplanes.

For more information: www.voltaero.aero



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