PRESS RELEASE

Safran's ENGINeUS™ electric motors will fly on the VoltAero Cassio 1 hybrid-electric testbed aircraft

NBAA-BACE Conference & Exhibition, Las Vegas, Nevada, USA - October 23, 2019 Safran Electrical & Power's ENGINeUS™ smart electric motors will begin flying in November 2019 on the testbed for VoltAero's Cassio hybrid-electric general aviation aircraft.

Two ENGINeUS™ 45 motor versions will be installed in forward-facing positions on the wings of VoltAero's Cassio 1 testbed as part of this aircraft's "push-pull" propulsion configuration. The ENGINeUS™ 45 delivers a continuous power of 45 kW and features built-in, dedicated control electronics.

Safran Electrical & Power revealed the ENGINeUS™ range of electric motors at last year's NBAA-BACE Conference & Exhibition. By integrating the ENGINeUS™ 45 motors on Cassio 1, Safran Electrical & Power will contribute to the development of a highly promising hybrid-electric general aviation aircraft.

"*Since our unveiling of ENGINeUS™, we have worked daily to continually improve the motors' exceptional performance, and we've just started their industrialization to address the emerging market of more-electric aircraft*," said Hervé Blanc, Executive Vice President & General Manager of the Electrical Systems and Motors Division at Safran Electrical & Power.

VoltAero will integrate the two ENGINeUS™ 45 motors on Cassio 1 to replace a pair of earlier-generation electric motors that were utilized during initial testing. The Cassio 1 testbed is validating VoltAero's design of an all-new hybrid-electric aircraft with seating for four to nine passengers, which is tailored for operation by private owners, air taxi/charter companies, in commercial flights for point-to-point regional travel, and in various utility-category applications.

"VoltAero is at the forefront in introducing a new era of safe, efficient and eco-friendly flight," stated Jean Botti, the VoltAero CEO and Chief Technical Officer. "*With the use of ENGINeUS™ 45 motors, we will fully benefit from Safran's cutting-edge technology in smart, efficient and optimized electric propulsion*."

The ENGINeUS™ product line includes a range of electric motors with power outputs of up to 500 kW. Its technology optimizes the electrical architecture by consolidating several key conversion, control and battery interface functions – with the motors' mechanical and structural characteristics perfectly suited to their use on aircraft.

Safran *is an international high-technology group, operating in the aircraft propulsion and equipment, space and defense markets. Safran has a global presence, with more than 92,000 employees and sales of 21 billion euros in 2018. 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 the equipment electrification of electric and hybrid propulsion sector. It has 12,400 employees across 12 different countries.

For more information: www.safran-group.com *and* www.safran-electrical-power.com
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VoltAero *is taking electric aircraft to an entirely new level. Benefitting from 10 years of pioneering expertise, the company is developing a truly unique general aviation airplane, Cassio, with a distributed hybrid-electric propulsion system for safe, quiet, efficient and eco-friendly flight. Cassio utilizes a combination of electric motors and an internal combustion engine in a "push-pull" configuration. A flight demonstrator, along with a ground-based "iron bird" system test rig, are validating VoltAero's hybrid configuration – de-risking it for airworthiness certification and the subsequent application on a new-production airplane to be built using strong, lightweight materials.*

For more information: www.voltaero.aero

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