



BYE AEROSPACE UNVEILS 8-SEAT ALL-ELECTRIC EFLYER 800, SAFRAN TO SUPPORT PROPULSION DESIGN

News / Manufacturer



Bye Aerospace announced an eight-seat all-electric twin turbo-prop class airplane, the eFlyer 800, in response to growing demands for regional all-electric airplanes with significantly reduced operating costs, plus increased capacity and utility. Performance estimates for the eFlyer 800 include up to 320 knot cruise speed, 35,000 feet ceiling and 500 nm range with 45-minute IFR reserves at normal cruise speed of 280 knots. Safety features include two wing-mounted electric motors, each with dual redundant motor windings, quad-redundant battery packs and a full airplane parachute. Additional potential features include emergency auto-landing system, artificial intelligence and an option for supplemental power solar cells and in-wheel electric taxi. The airplane's configuration consists of up to seven passengers and one or two pilots. The eFlyer 800 will have only one-fifth the operating costs of traditional twin turboprops and is geared for the air-taxi, air-cargo, regional and charter aircraft markets.

"The eFlyer 800 is the first all-electric propulsion technology airplane that achieves twin-turboprop performance and safety with no CO2 and extremely low operating costs," said George E. Bye, Bye Aerospace CEO. "This type of remarkable economy and performance is made possible by the electric propulsion system and advanced battery cell technology that

results in significantly higher energy densities."

Bye Aerospace and Safran are currently assessing the most efficient electric powertrain for the eFlyer 800 (dual ENGINEUS™ electric motors and GENeUSGRID™ electric distribution and network protection system). "Safran product lines with the ENGINEUS™ motors, rated from 50kW to 500kW/1MW and GENeUSGRID™ systems, perfectly fit with the Bye Aerospace portfolio of e-aircraft", said Hervé Blanc, Executive Vice President and General Manager Power with Safran Electrical & Power. "Building upon our successful cooperation on eFlyer2 and eFlyer4, we are very proud to bring our best expertise to support Bye Aerospace in the design of the new eFlyer800."

Bye said eFlyer 800 deposit agreements are being developed with several air-taxi, air-cargo and air charter services. "Details about those agreements will be announced as they are finalized," he said.

Bye Aerospace is in the process of obtaining FAA Part-23 certification for the eFlyer 2 for the professional flight training mission and the four-seat eFlyer 4 for air taxi, cargo and advanced training uses. All the company's current and future families of aircraft feature engineering, research and electric aircraft solutions designed to specifically address compelling market needs. Benefits include five-fold lower operating costs, no CO2 emissions, and decreased noise. Bye Aerospace estimates the eFlyer will eventually eliminate the release of millions of metric tons of CO2 each year as its deliveries begin and the general aviation fleet is replaced.



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