



# SAFRAN SIGNS AGREEMENT WITH ELECTRA TO DEVELOP TURBOGENERATOR FOR THE PROPULSION OF ITS HYBRID-ELECTRIC AIRCRAFT

News / Manufacturer



**Safran Helicopter Engines has signed an agreement with Electra to develop the 600 kW electric turbogenerator propulsion system for the prototype of Electra's nine-passenger hybrid eSTOL aircraft. This turbogenerator is an essential component of the disruptive hybrid-electric propulsion architecture for Electra's low-carbon aircraft. A turbogenerator consists of a gas turbine combined with one or more electric generators, as well as an innovative system of electrical power and voltage regulation.**

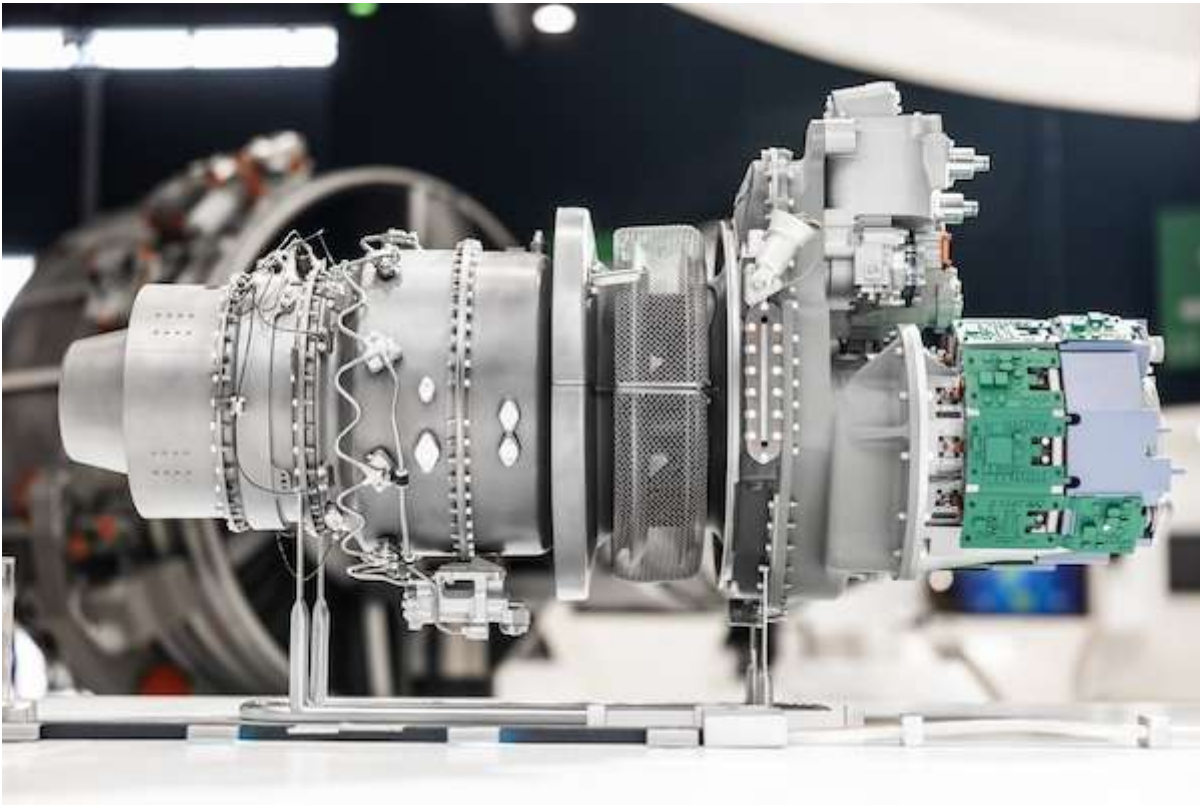
Safran Helicopter Engines will develop the Electra turbogenerator on the basis of its Arrano turboshaft engine and is leveraging Safran's broad expertise in electrical equipment, starting with Safran Electrical & Power, which will supply the two GENeUS electrical generators. Safran Helicopter Engines has already ground-tested several types of turbogenerators at various power levels.

Florent Chauvancy, Safran Helicopter Engines Executive Vice-President, OEM Sales, commented: "Safran Helicopter Engines is extremely proud to collaborate with Electra. We've closely evaluated

the advanced air mobility market, and we believe the Electra eSTOL aircraft offers groundbreaking capability in a practical design that meets market needs of both today and tomorrow while being backed by a team with decades of experience to enable its success. We will be bringing to their project all the expertise we have independently developed in the field of hybrid-electric propulsion, combining electric and thermal energy sources, to develop the right turbogenerator for Electra's first 9-passenger prototype aircraft. Our recent tests in this field are a strong indicator of success for Electra's aircraft."



JP (James) Stewart, Electra's Vice-President and General Manager, said: "Electra has carefully studied aircraft electrification and we believe that hybrid propulsion is key to providing emissions and cost reductions while preserving useful payloads, ranges, and speeds for our customers – ultimately, building a better aircraft. The turbogenerator is the heart of this hybrid propulsion system. Safran Helicopter Engines is integrating a class-leading, modern turbine with their high efficiency generators and backing it with a strong support network. Safran's motto is Powered by Trust and we're proud to be Powered by Safran."



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