Press release

PARIS AIR SHOW 2023

Daher and Ascendance Flight Technologies join forces to accelerate the electrification of future aircraft and reduce their CO_2 emissions

Paris, France, June 22nd, 2023

This partnership will allow us to research new ways of hybridizing the propulsion systems of Daher aircraft based on technologies developed by Ascendance Flight Technologies, a Toulouse-based startup and winner of a French Tech 2030 award.

The collaboration between Daher Aerospace and Ascendance Flight Technologies further underlines Daher Group ambitions to leverage innovation and accelerate the decarbonization of its activities, with particular emphasis on its Aircraft division. These decarbonization ambitions are set out in the Take Off 2027 strategic plan announced by Daher earlier this year, and are supported by a high level of R&D project investment, made possible by the fact that this innovation budget has quadrupled since 2017.

Ascendance Flight Technologies is a French startup and pioneer in the low-carbon aviation market. Founded in 2018, the company develops solutions, technologies and hardware to hybridize propulsion systems, and leverages the potential of hybridization to accelerate the transition to a new model of air mobility.

The Toulouse-based startup will contribute its expertise in hybrid-electric propulsion systems architecture, modeling, integration and testing to the collaboration with Daher. As a result, it will be able to test its technology on successful CS23-category aircraft, designed and marketed by Daher Aerospace, a leader in its market segment.

"We're delighted to be partnering with Ascendance Flight Technologies. As a major player in general aviation, Daher Group is totally committed to achieving the goals around decarbonizing aviation by 2050, and taking significant steps forward towards that goal during this decade. This new collaboration illustrates the 360-degree innovation strategy we're now implementing to make that happen," explains Daher Group CEO Didier Kayat.

"Daher is a high-profile aircraft manufacturer, with a very high level of technical expertise and aircraft that are respected and renowned in their market segments. So we're delighted to have this opportunity of contributing our expertise and technologies to this family-owned French group, with which we share the goal of accelerating the decarbonization of aviation," adds Jean-Christophe Lambert, Co-founder & CEO of Ascendance Flight Technologies.

About Daher - www.daher.com

As an aircraft manufacturer, manufacturer, manufacturing services provider and logistician, Daher achieved a revenue of 1.3 billion euros in 2022.

Backed by its family shareholding, Daher has been focused on innovation since its creation in 1863. With more than 10,500 employees and offices in 13 countries, mainly in Europe and North America, Daher designs and develops value-added solutions for its aeronautical and industrial customers and partners.

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About Ascendance Flight Technologies - www.ascendance-ft.com

ABOUT ASCENDANCE FLIGHT TECHNOLOGIES

Founded in 2018 by Jean-Christophe Lambert, Thibault Baldivia, Clément Dinel and Benoît Ferran, and supported by the Occitanie regional council and Bpifrance, Ascendance Flight Technologies is a startup whose goal is to decarbonize aviation. Based in Toulouse, it is currently developing STERNA, an innovative hybrid electric propulsion system, and a VTOL (vertical take-off and landing) aircraft equipped with this technology, named ATEA.

www.ascendance-ft.com

STERNA is a hybrid propulsion system that allows multiple energy sources to be used at the same time. Thanks to an innovative electric architecture, its Hybrid Operating System for on-board energy management intelligence, and new aeronautic battery solutions, STERNA will be able to accommodate a thermal combustion module powered by sustainable aviation fuel or new hydrogen solutions, thus contributing to the aviation industry's energy transition. The company has filed a number of patents on these technologies.

ATEA is a vertical take-off and landing aircraft. With a range of 400 km, a cruising speed of over 200 km/h, noise emissions reduced by a factor of four* and up to 80% less CO2* (*compared with a traditional helicopter), ATEA is a low-carbon helicopter alternative. With eight rotors built into the wings, this aircraft offers enhanced safety resulting from full redundancy. It is intended for regional, decentralized flights based on four primary use cases: passenger transport, medical emergencies, logistics and surveillance.