

Airbus and Renault Group to advance research on electrification

Partnership to help mature technologies associated with next-generation battery systems

Toulouse and Boulogne-Billancourt, 30 November 2022 – Airbus and Renault Group, worldwide leaders in the aerospace and automotive industries, have signed a research and development agreement which aims at enhancing transversalities and synergies to accelerate both companies' electrification roadmaps, improving their respective range of products. **This partnership will help Airbus mature technologies associated with future hybrid-electric aircraft** and will be detailed at the Airbus Summit taking place 30 November - 1 December.

As part of this partnership, Airbus' and Renault Group's engineering teams will join forces to mature technologies related to energy storage, which remains one of the main roadblocks for the development of long-range electric vehicles. The cooperation agreement will notably cover technology bricks related to energy management optimisation and battery weight improvement, and will look for the best pathways to move from current cell chemistries (advanced lithium-ion) to all solid-state designs which could double the energy density of batteries in the 2030 timeframe.

The joint work will also study the full lifecycle of future batteries, from production to recyclability, in order to prepare the industrialisation of these future battery designs while assessing their carbon footprint across their entire lifecycle.

"For the first time, two European leaders from different industries, are sharing engineering knowledges to shape the future of hybrid-electric aircrafts. Aviation is an extremely demanding field in terms of both safety and energy consumption, and so is the car industry. At Renault Group, our 10 years of experience in the electric vehicle value chain gives us some of the strongest feedback from the field and expertise in the performance of battery management systems. Driven by the same ambition to innovate and reduce the carbon footprint, our engineering teams are exchanging with those of Airbus to converge transversal technologies that will enable both hybrid aircraft to be operated and the vehicles of tomorrow to be developed," said Gilles Le Borgne, EVP, Engineering, Renault Group.

"This cross-industry partnership with Renault Group will help us mature the next generation of batteries as part of Airbus' electrification roadmap," said Sabine Klauke, Airbus Chief Technical Officer. *"Reaching net zero carbon emissions by 2050 is a unique challenge that requires cooperation across sectors, starting today. Bringing together Renault Group's experience in electric vehicles with our own track record in electric flight demonstrators will allow us to accelerate the development of the disruptive technologies required for future hybrid aircraft architectures in the 2030s and beyond. It will also foster the emergence of common technical and regulatory standards in support of the clean mobility solutions needed to achieve our climate targets."*

Technological trends are moving in the same direction. Airbus and Renault Group's cooperation on electrification will play an important role in bringing about change in the transport landscape, successfully contributing to the ambition of net-zero emissions by 2050, of both the automotive and the aviation sector.

To join the live stream of the Airbus Summit starting at 09:00 CET Paris time on 30 November, click [here](#). And to find out **more about the Airbus and Renault Group partnership: Join the "Let's get hybrid" round table from 13:45 to 15:00** (with a Q&A session).

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About Airbus

Airbus pioneers sustainable aerospace for a safe and united world. The Company constantly innovates to provide efficient and technologically-advanced solutions in aerospace, defence, and connected services. In commercial aircraft, Airbus offers modern and fuel-efficient airliners and associated services. Airbus is also a European leader in defence and security and one of the world's leading space businesses. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions and services worldwide.

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About Renault Group

Renault Group is at the forefront of reinventing mobility. Backed by its alliance with Nissan and Mitsubishi Motors, and its unique expertise in terms of electrification, Renault Group draws on the complementary nature of its four brands - Renault - Dacia - Alpine and Mobilize - to offer its customers sustainable and innovative mobility solutions. With operations in more than 130 countries, the Group sold 2.7 million vehicles in 2021. It employs nearly 111,000 people who embody its raison d'être on a daily basis, so that mobility brings us closer to one another. Ready to take up challenges on the road as well as in competition, the Group is committed to an ambitious and value-generating transformation. This is centred on the development of new technologies and services, and a new range of even more competitive, balanced and electrified vehicles. In line with environmental challenges, Renault Group's ambition is to achieve carbon neutrality in Europe by 2040.

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